

APPLICATION FOR WELL LICENCE

In compliance with The Oil and Gas Act and the Drilling and Production Regulation, application is hereby made for a well licence for:

Well Name EOG Pierson HZNTL 15-06-02-28 (WPM)
Well Location 15 C 06 02 28 (WPM)
 (LSD) (Quadrant) (Section) (Township) (Range)
Name of Well Owner EOG RESOURCES CANADA INC.
Manitoba Corporation No 20855
Address of Well Owner 1300, 700 - 9TH AVENUE SW CALGARY, AB. T2P 3V4
Telephone (403)-663-8402 **Fax** (403)-663-8502
Surface Location 13 C 05 02 28 (WPM)
 (LSD) (Quadrant) (Section) (Township) (Range)
Ground Elevation 460.90 metres above sea level

| Surface Co-ordinates | Directional or Horizontal Well BottomHole Co-ordinates |
|------------------------|--|
| 51.00m S of N of Sec 5 | 94.91m S of N of Sec 6 |
| 67.00m E of W of Sec 5 | 697.54m W of E of Sec 6 |

Surface Owner Dale Curtis Gardiner
Occupant none
Royalty Owner(s) R. Murray and Edith Erixon, Theodore and Rebecca Atrz, Don Harley Insurance
Freehold Oil and Gas Rights Leased By Standard Land (Mikala Hansen and Neil Hughes)
 (Name of Oil and Gas Lease Agent and Corporation)
Crown Reservation or Lease No. _____
Type of Well OIL
Projected Total Depth 1650m in Triassic

| | Casing Size O.D. mm | Weight Kg/m | Grade | From | To | Estimated Cemented Interval |
|----|---------------------|-------------|-------|---------|---------|-----------------------------|
| 1. | 219.10 | 35.70 | J-55 | Surface | 150.00 | Surface |
| 2. | 139.70 | 23.10 | J-55 | Surface | 1650.00 | Surface |
| 3. | | | | | | |

Drilling Contractor Precision Drilling (1987) Ltd. **Rig No.** 195
Expected Spud Date 30-Jun-2011
Responsible Agent of Company at Well Jim Brown **Telephone** (403)-844-1894

18-Apr-2011 Paulette Seymour
 (Date) DD/MM/YYYY (Signature of applicant)

For assistance in completing this form contact Paulette Seymour at (204) 945-6575 or Dan Surzyshyn at (204) 945-8102.

For Department Use Only

Well Licence No.: 8001

UWI: 100.15-06-002-28W1.00

Well Classification: DEVELOPMENT (NON CONFIDENTIAL)
 Please see attached conditions.

18-May-2011
 Date of Issue

Paulette Seymour
 Reviewed by:

Keith Pender
 Director of Petroleum

Lic. No. 8001 EOG Pierson HZNTL 15-06-02-28 (WPM)

A licence to drill a well known as EOG Pierson HZNTL 15-06-02-28 (WPM) is hereby granted to EOG RESOURCES CANADA INC..

The Licensee shall comply with all the provisions of the Oil and Gas Act, the Drilling and Production Regulation and the following terms and conditions:

1. The Petroleum Branch will forward a copy of the surface lease for the above location to the Surface Rights Board to satisfy the requirements of Section 15 of the Surface Rights Act
2. Two copies of the final directional survey are to be submitted to the Branch with the drilling tour reports as soon as drilling is finished. If the well is found to be less than 100 m from any of the boundaries of the northeast quarter of Section 6, then an off-target penalty may apply as per Section 13 and 14 of the Drilling and Production regulations.
3. The proposed drainage unit for the well includes Lsd's 15 and 16 of Section 6-2-28 (WPM).
4. EOG is to submit mandatory digital submission of multi-spacing unit production allocation as per Informational Notice 11-03.

MANITOBA SUBMISSION REQUIREMENTS FOR NEW WELLS

The following notifications and information must be provided to the appropriate district office.

OPERATIONS IN TOWNSHIPS 1 TO 6

Dept. of Innovation, Energy and Mines
Petroleum Branch
Box 220
23 Railway Avenue
Waskada MB R0M 2E0
Phone: 204-673-2472 (24 hour service)
Fax: 204-673-2767

OPERATIONS NORTH OF TOWNSHIP 6

Dept. of Innovation, Energy and Mines
Petroleum Branch
Box 1359
227 King Street West
Virden MB R0M 2C0
204-748-4260 (24 hour service)
204-748-2208

FOR DEPT. USE ONLY

RECEIVED

DRILLING, COMPLETION AND INITIAL PRODUCTION SUBMISSION REQUIREMENTS

COMPANY REPRESENTATIVE AT WELLSITE IS RESPONSIBLE FOR ITEMS 1 TO 9.

1. 24 hours advance notice of intent to spud a well.
2. 2 hours advance notice of intent to run and cement surface casing or production casing.
3. 2 hours advance notice of intent to pull pipe after running a DST.
4. 2 hours advance notice of a dry hole abandonment. Verbal approval to abandon must be obtained from the district office.
5. Weekly status reports on all activities up to rig release. Reports to be called in each MONDAY MORNING prior to 9 a.m.
6. A complete copy of the drilling tours.
7. Two (2) copies of field prints of all logs.
8. Tagged image files of all open hole logs and cased hole logs and LAS (Log ASCII) Files) for any log that may be represented in LAS format (submitted on 1.44 floppy disk, CD or DVD format) as per Informational Notice 05-05.
9. Two (2) copies of any directional surveys run (submitted in digital format as per Informational
10. A one (1) litre sample of drilling fluids. Squeezing of a pit is not to proceed without the consent of the district office.
11. Any drill cutting samples and cores are to be shipped to: Rock Preparation Lab, 10 Midland Street, Winnipeg MB, R3E 2Y6.
12. Two (2) copies of all reports of drill stem tests, core analyses or of any other test. (E.g. fluid analyses, pressure surveys, etc.)
13. Two (2) copies of any Geological Report.
14. Chronological report of all completion operations including full details.
15. Two (2) copies of all completion logs.
16. Two (2) copies of the Initial Production Report (forms attached).



Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 5.0, Report Date: 9/21/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---|---|----------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |
| Type Initial Completion | Sub Type | | | |
| Objective | | | | |
| Contractor | | | Rig Number Falcon 4 | |
| AFE Number 12J0056 | Total AFE Amount (Cost) 531,090 | Daily Field Est Total (Cost) 213,975 | Cum Field Est To Date (Cost) 537,847 | |
| Weather Sunny | T (°C) 17 | Road Condition Good | Tubing Pressure (kPa) | Casing Pressure (kPa) 450 |
| Rig Time (hr) 6.00 | | | | |
| Job Contact Richard Thomas | | Title Consultant | | Contact Number (403)-921-5051 |

Time Log

| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
|------------|----------|----------|--------|------------------------|---|
| 07:00 | 12:00 | 5.00 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 12:00 | 12:30 | 0.50 | SMTG | Safety Meeting | Conducted a walk around inspection of the lease and equip. Held a safety/procedures meeting with the crew and issued EOG Job Hazard Analysis / Work Permit. |
| 12:30 | 13:00 | 0.50 | SRIG | Rig Up/Down | Rigged up the rig and equip to EOG, Falcon Ent, MIED&M, CAODC and OH&S specs. Unloaded Fontanas trailer. |
| 13:00 | 13:30 | 0.50 | FBCK | Flowback Well | Bled off well to the rig tank. (all water no oil) |
| 13:30 | 14:00 | 0.50 | BOPT | Pressure Test BOP's | Function and pressure tested class II BOP's from 1.40 MPa Low to 14.0 MPa high - tested good. |
| 14:00 | 14:30 | 0.50 | BOPI | Install BOP's | Removed bonnet, frac valve and installed BOP's. Rigged in work floor and 73.00 mm tubing equipment. |
| 14:30 | 16:00 | 1.50 | RUTB | Run Tubing | Tallied drifted and ran in to 1123.01 mKb with 0.5 m stick up on jt # 116. |
| 16:00 | 17:30 | 1.50 | CLN | Clean Out Hole | Rigged up and reverse circulated well. Observed circ after 0.72 m3, circulated clean for 1.5 hrs at 570 L/min. Observed sand and a small amount of oil in returns. Lost 4.86 m3 salt water. |
| 17:30 | 18:00 | 0.50 | PULT | Pull Tubing | Pull and lay down 11 jts with 14 jts left on the trailer. TBG as follows. Stretch for 7,000 dN tension (0.20 m), KB-TH 3.27 m 94 - 73 mm J-55 9.67 Kg/m TBG (905.06 m) 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear TBG anchor (0.89 m) 19 - 73 mm J-55 9.67 Kg/m TBG (182.87 m) 1 - API PSN (0.34 m) 1 - 73 mm J-55 9.67 Kg/m tail joint (9.64 m) 1 - 73 mm x 125.7 mm gas separator (3.24 m) |
| 18:00 | 18:15 | 0.25 | GOP | General Operations | Anchor at 909.82 mKb, PSN at 1006.40 mKb, and BOT at 1019.25 mKb, flowed the well over night to the 400 Bbl tanks |
| 18:15 | 07:15 | 13.00 | LOCL | Lock Wellhead & Secure | Secured the well, cleaned up lease. SDFN 17:30. |

Report Fluids Summary

| Fluid | To well (m³) | From well (m³) | To lease (m³) | From lease (m³) |
|-------|--------------|----------------|---------------|-----------------|
| Water | 22.00 | 14.00 | 36.00 | 0.00 |

Safety Checks

| Time | Des | Type | Com |
|-------|-----|----------------|--|
| 12:00 | | Safety Meeting | 12:00 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a walk around inspection of the lease and equip. Discussed: - Slips trips & falls - proper PPE at all times - muster points - Flammable gas - overhead hazards - pinch points - wind direction - pressure - good communication - proper lifting techniques - communication |



Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 5.0, Report Date: 9/21/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |

Logs

| Date | Type | Top (mKB) | Btm (mKB) | Cased? |
|------|------|-----------|-----------|--------|
| | | | | |

Perforations

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
| | | | | |

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| Date | Zone | Type | Stim/Treat Company |
|------|------|------|--------------------|
| | | | |

| Stg # | Stage Type | Top (mKB) | Btm (mKB) | Fluid Volume (m³) |
|-------|------------|-----------|-----------|-------------------|
| | | | | |

Other In Hole

| Des | Run Date | OD (mm) | Top (mKB) | Btm (mKB) |
|-----|----------|---------|-----------|-----------|
| | | | | |

Cement

| Des | Start Date | Cement Comp |
|-----|------------|-------------|
| | | |



Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 6.0, Report Date: 9/22/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------------|---|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |
| Type Initial Completion | Sub Type | | | |
| Objective | | | | |
| Contractor | | | Rig Number Falcon 4 | |
| AFE Number 12J0056 | Total AFE Amount (Cost) 531,090 | Daily Field Est Total (Cost) 5,931 | Cum Field Est To Date (Cost) 543,778 | |
| Weather Sunny | T (°C) 15 | Road Condition Good | Tubing Pressure (kPa) -10 | Casing Pressure (kPa) 50 |
| Job Contact | | Title | Contact Number | |
| Richard Thomas | | Consultant | (403)-921-5051 | |

Time Log

| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
|------------|----------|----------|--------|------------------------|--|
| 07:00 | 07:30 | 0.50 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 07:30 | 08:00 | 0.50 | SMTG | Safety Meeting | 7:30 Held safety/procedure meeting with crew and issued EOG Job Hazard Analysis/Work Permit. Conducted inspection of the lease and equipment. SITP = -10 kPa. SICP = 50 kPa. |
| 08:00 | 08:45 | 0.75 | DTIM | Downtime | Air lines froze on the rig overnight, could not get any air pressure, bypassed the frozen line. |
| 08:45 | 09:30 | 0.75 | GOP | General Operations | Removed and secured BOP. Set 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear tubing anchor w/ 7,000 daN over string weight. Installed bonnet, built wellhead. |
| 09:30 | 11:00 | 1.50 | RURP | Run Rods & Pump | Rigged in work floor, rod BOP, and rod equipment. Surface tested 1 - BHP # CEFV-55712, 25x200 RSAC 18-1, 20 Ring PA (tested good). Torqued rods to spec. Ran rods as follows: 1 - BHP # CEFV- 55712, 25x200 RSAC 18-1, 20 Ring PA 37 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per, D-75 w/ rollers (3/12) 22 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per D-75 (3/12) 68 - 22.2 mm x 7.62 m x 63.5 mm TB scr. 6/per D-75 (7/12) 1 - 22.2 mm x 3.06 m x 63.5 mm TB scr. pony rod, D-75 1 - 22.2 mm x 2.44 m x 63.5 mm TB scr. pony rod, D-75 1 - 38.1 mm x 9.14 m Polish Rod Rigged out rod equipment. |
| 11:00 | 11:15 | 0.25 | GOP | General Operations | Tagged PSN, spaced out, installed polish rod seated BHP and secured stuffing box. |
| 11:15 | 11:30 | 0.25 | PTST | Pressure Test | Stroked up with rig to 7.0 MPa - tested good. |
| 11:30 | 12:00 | 0.50 | GOP | General Operations | Hung horse's head on Weatherford Ampscot 320 jack. |
| 12:00 | 12:30 | 0.50 | SRIG | Rig Up/Down | Rigged out service rig and associated equipment. |
| 12:30 | 12:45 | 0.25 | RMOV | Rig Move | Moved Falcon rig 4 over to 100/11-35-2-28w1. |
| 12:45 | 07:45 | 19.00 | LOCL | Lock Wellhead & Secure | Secured the well, cleaned up lease. Ready for production. Left 3.18 m stick up. SDFN 12:30 |

Report Fluids Summary

| Fluid | To well (m³) | From well (m³) | To lease (m³) | From lease (m³) |
|-------|--------------|----------------|---------------|-----------------|
| Water | 0.00 | 44.00 | 0.00 | 44.00 |



Daily Completion and Workover

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Report # 6.0, Report Date: 9/22/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
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| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |

Safety Checks

| Time | Des | Type | Com |
|-------|-----|----------------|---|
| 07:30 | | Safety Meeting | 07:30 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a walk around inspection of the lease and equip. Discussed: - fatigue - wind direction - pressure - good communication - proper lifting techniques - organization - communication - Slips trips & falls - proper PPE at all times - muster points - Flammable gas - overhead hazards - pinch points - vehicle inspections - winter gear |

Logs

| Date | Type | Top (mKB) | Btm (mKB) | Cased? |
|------|------|-----------|-----------|--------|
| | | | | |

Perforations

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
| | | | | |

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| | | | | | | | |
|-------|------------|------|-----------|------|-----------|--------------------|-------------------|
| Date | | Zone | | Type | | Stim/Treat Company | |
| Stg # | Stage Type | | Top (mKB) | | Btm (mKB) | | Fluid Volume (m³) |
| | | | | | | | |

Other In Hole

| Des | Run Date | OD (mm) | Top (mKB) | Btm (mKB) |
|-----|----------|---------|-----------|-----------|
| | | | | |

Cement

| Des | Start Date | Cement Comp |
|-----|------------|-------------|
| | | |



Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 6.0, Report Date: 9/22/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------------|---|----------------------------------|
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| Objective | | | | |
| Contractor | | | Rig Number Falcon 4 | |
| AFE Number 12J0056 | Total AFE Amount (Cost) 531,090 | Daily Field Est Total (Cost) 5,931 | Cum Field Est To Date (Cost) 543,778 | |
| Weather Sunny | T (°C) 15 | Road Condition Good | Tubing Pressure (kPa) -10 | Casing Pressure (kPa) 50 |
| Rig Time (hr) 5.00 | | | | |
| Job Contact Richard Thomas | | Title Consultant | | Contact Number (403)-921-5051 |

Time Log

| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
|------------|----------|----------|--------|------------------------|--|
| 07:00 | 07:30 | 0.50 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 07:30 | 08:00 | 0.50 | SMTG | Safety Meeting | 7:30 Held safety/procedure meeting with crew and issued EOG Job Hazard Analysis/Work Permit. Conducted inspection of the lease and equipment. SITP = -10 kPa. SICP = 50 kPa. |
| 08:00 | 08:45 | 0.75 | DTIM | Downtime | Air lines froze on the rig overnight, could not get any air pressure, bypassed the frozen line. |
| 08:45 | 09:30 | 0.75 | GOP | General Operations | Removed and secured BOP. Set 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear tubing anchor w/ 7,000 daN over string weight. Installed bonnet, built wellhead. |
| 09:30 | 11:00 | 1.50 | RURP | Run Rods & Pump | Rigged in work floor, rod BOP, and rod equipment. Surface tested 1 - BHP # CEFV-55712, 25x200 RSAC 18-1, 20 Ring PA (tested good). Torqued rods to spec. Ran rods as follows: 1 - BHP # CEFV- 55712, 25x200 RSAC 18-1, 20 Ring PA 37 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per, D-75 w/ rollers (3/12) 22 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per D-75 (3/12) 68 - 22.2 mm x 7.62 m x 63.5 mm TB scr. 6/per D-75 (7/12) 1 - 22.2 mm x 3.06 m x 63.5 mm TB scr. pony rod, D-75 1 - 22.2 mm x 2.44 m x 63.5 mm TB scr. pony rod, D-75 1 - 38.1 mm x 9.14 m Polish Rod Rigged out rod equipment. |
| 11:00 | 11:15 | 0.25 | GOP | General Operations | Tagged PSN, spaced out, installed polish rod seated BHP and secured stuffing box. |
| 11:15 | 11:30 | 0.25 | PTST | Pressure Test | Stroked up with rig to 7.0 MPa - tested good. |
| 11:30 | 12:00 | 0.50 | GOP | General Operations | Hung horse's head on Weatherford Ampscot 320 jack. |
| 12:00 | 12:30 | 0.50 | SRIG | Rig Up/Down | Rigged out service rig and associated equipment. |
| 12:30 | 12:45 | 0.25 | RMOV | Rig Move | Moved Falcon rig 4 over to 100/11-35-2-28w1. |
| 12:45 | 07:45 | 19.00 | LOCL | Lock Wellhead & Secure | Secured the well, cleaned up lease. Ready for production. Left 3.18 m stick up. SDFN 12:30 |

Report Fluids Summary

| Fluid | To well (m³) | From well (m³) | To lease (m³) | From lease (m³) |
|-------|--------------|----------------|---------------|-----------------|
| Water | 0.00 | 44.00 | 0.00 | 44.00 |



Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 6.0, Report Date: 9/22/2012

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |

Safety Checks

| Time | Des | Type | Com |
|-------|-----|----------------|---|
| 07:30 | | Safety Meeting | 07:30 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a walk around inspection of the lease and equip. Discussed: - fatigue - wind direction - pressure - good communication - proper lifting techniques - organization - communication - Slips trips & falls - proper PPE at all times - muster points - Flammable gas - overhead hazards - pinch points - vehicle inspections - winter gear |

Logs

| Date | Type | Top (mKB) | Btm (mKB) | Cased? |
|------|------|-----------|-----------|--------|
| | | | | |

Perforations

| Date | Zone | Top (mKB) | Btm (mKB) | Current Status |
|------|------|-----------|-----------|----------------|
| | | | | |

<typ> on <dtm>

| | | | | | | | | |
|-------|------------|------|-----------|------|-----------|--------------------|-------------------|--|
| Date | | Zone | | Type | | Stim/Treat Company | | |
| Stg # | Stage Type | | Top (mKB) | | Btm (mKB) | | Fluid Volume (m³) | |
| | | | | | | | | |

Other In Hole

| Des | Run Date | OD (mm) | Top (mKB) | Btm (mKB) |
|-----|----------|---------|-----------|-----------|
| | | | | |

Cement

| Des | Start Date | Cement Comp |
|-----|------------|-------------|
| | | |

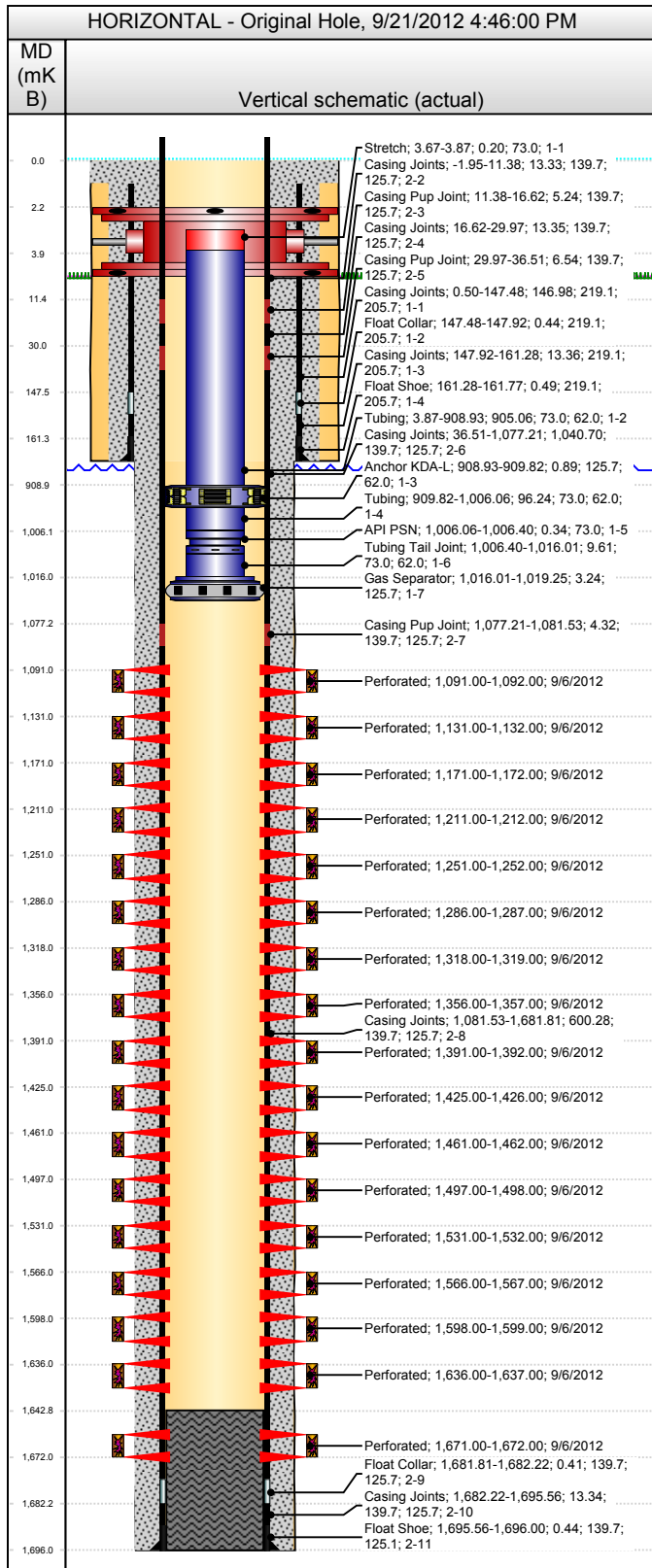


EOG Downhole Schematic

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | | |
|------------------------------|---|-----------------------|--------------------------|------------------------------|---------------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | Province Manitoba | License # 8001 | Well Configuration Type HORIZONTAL |
| KB Elevation (mKB) 465.3 | Ground Elevation (mKB) 460.9 | KB-CF (mKB) 4.0 | KB-TH (mKB) | Total Depth (mKB) 1,696.0 | Spud Date 8/26/2012 |
| | | | Rig Release 8/30/2012 | | |



| Casing Strings | | | | |
|----------------|---------|---------------|-------|-----------------|
| Csg Des | OD (mm) | Wt/Len (kg/m) | Grade | Set Depth (mKB) |
| Surface | 219.1 | 35.716 | J-55 | 161.77 |
| Production | 139.7 | 23.067 | J-55 | 1,696.00 |

| Cement Stages | | | | | | |
|--------------------------|--------|-----------|-----------|------------|------------------|---------------------|
| Des | Type | Top (mKB) | Btm (mKB) | Stroke (m) | Recip Rate (spm) | Vol Cement Ret (m³) |
| Surface Casing Cement | Casing | 0.00 | 161.80 | 2.00 | 2 | 2.00 |
| Production Casing Cement | Casing | 0.00 | 1,696.00 | 5.00 | 6 | 5.00 |

| Perforations | | | |
|--------------------------|-----------|-----------|--|
| Zone | Top (mKB) | Btm (mKB) | Current Status |
| Spearfish, Original Hole | 1,091.0 | 1,092.0 | Open - Not Flowing (1,091.0 - 1,092.0) |
| Spearfish, Original Hole | 1,131.0 | 1,132.0 | Open - Not Flowing (1,131.0 - 1,132.0) |
| Spearfish, Original Hole | 1,171.0 | 1,172.0 | Open - Not Flowing (1,171.0 - 1,172.0) |
| Spearfish, Original Hole | 1,211.0 | 1,212.0 | Open - Not Flowing (1,211.0 - 1,212.0) |
| Spearfish, Original Hole | 1,251.0 | 1,252.0 | Open - Not Flowing (1,251.0 - 1,252.0) |
| Spearfish, Original Hole | 1,286.0 | 1,287.0 | Open - Not Flowing (1,286.0 - 1,287.0) |
| Spearfish, Original Hole | 1,318.0 | 1,319.0 | Open - Not Flowing (1,318.0 - 1,319.0) |
| Spearfish, Original Hole | 1,356.0 | 1,357.0 | Open - Not Flowing (1,356.0 - 1,357.0) |
| Spearfish, Original Hole | 1,391.0 | 1,392.0 | Open - Not Flowing (1,391.0 - 1,392.0) |
| Spearfish, Original Hole | 1,425.0 | 1,426.0 | Open - Not Flowing (1,425.0 - 1,426.0) |
| Spearfish, Original Hole | 1,461.0 | 1,462.0 | Open - Not Flowing (1,461.0 - 1,462.0) |
| Spearfish, Original Hole | 1,497.0 | 1,498.0 | Open - Not Flowing (1,497.0 - 1,498.0) |
| Spearfish, Original Hole | 1,531.0 | 1,532.0 | Open - Not Flowing (1,531.0 - 1,532.0) |
| Spearfish, Original Hole | 1,566.0 | 1,567.0 | Open - Not Flowing (1,566.0 - 1,567.0) |
| Spearfish, Original Hole | 1,598.0 | 1,599.0 | Open - Not Flowing (1,598.0 - 1,599.0) |
| Spearfish, Original Hole | 1,636.0 | 1,637.0 | Open - Not Flowing (1,636.0 - 1,637.0) |
| Spearfish, Original Hole | 1,671.0 | 1,672.0 | Open - Not Flowing (1,671.0 - 1,672.0) |

| Other Picks | | |
|----------------|-----------------|--------------------|
| Formation Name | Top Depth (mKB) | Bottom Depth (mKB) |

| Tubing Strings | | | |
|---|-----------------|-----------|--------------|
| Tubing - Production set at 1,019.25mKB on 9/21/2012 15:00 | | | |
| Tubing Description | String Max N... | Wt (kg/m) | String Grade |
| Tubing - Production | 73.0 | 9.673 | J-55 |
| Set Depth (mKB) | | | |
| 1,019.25 | | | |
| Comment | | | |

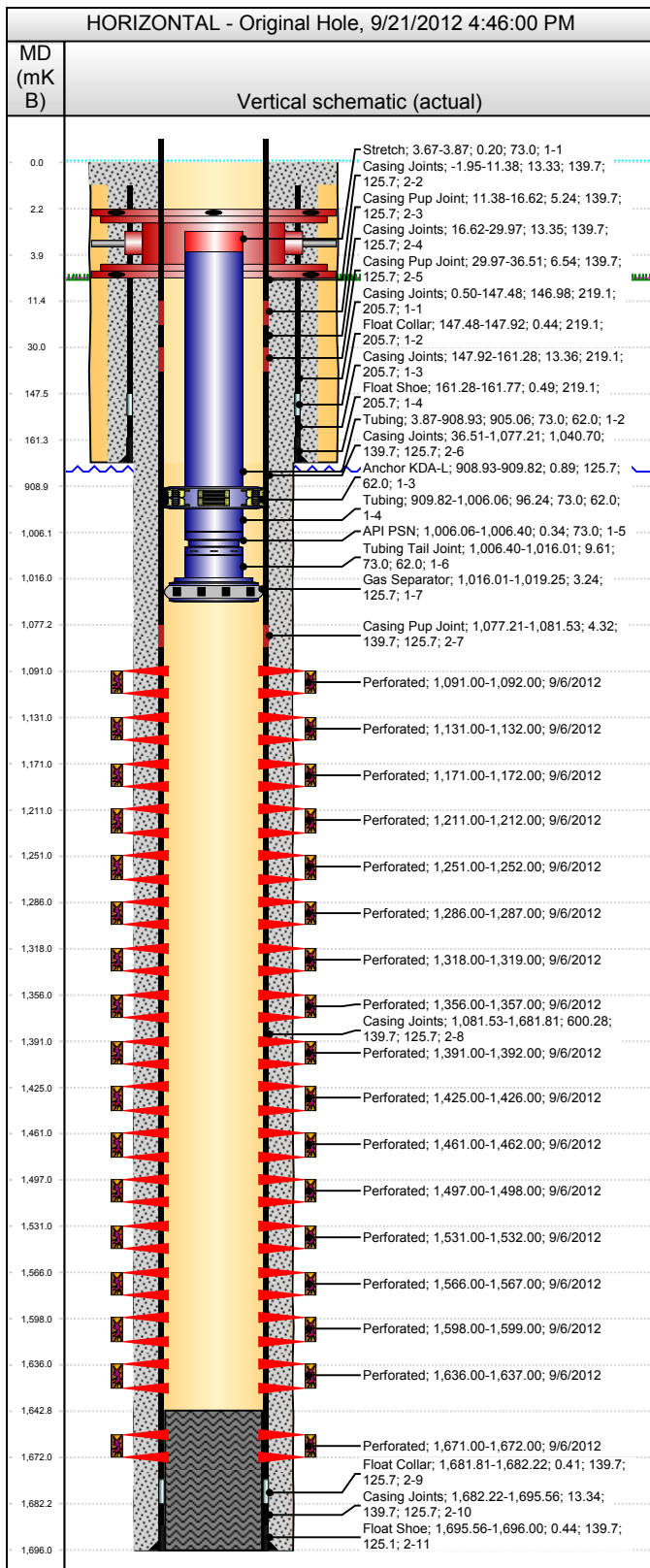
| Item # | Jts | Item Des | OD (mm) | ID (mm) | Len (m) | Top (mKB) | Btm (mKB) |
|--------|-----|----------|---------|---------|---------|-----------|-----------|
| 1-1 | 1 | Stretch | 73.0 | | 0.20 | 3.7 | 3.87 |



EOG Downhole Schematic

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General



| Item # | Jts | Item Des | OD (mm) | ID (mm) | Len (m) | Top (mKB) | Btm (mKB) |
|--------|-----|-------------------|---------|---------|---------|-----------|-----------|
| 1-2 | 94 | Tubing | 73.0 | 62.0 | 905.06 | 3.9 | 908.93 |
| 1-3 | 1 | Anchor KDA-L | 125.7 | 62.0 | 0.89 | 908.9 | 909.82 |
| 1-4 | 10 | Tubing | 73.0 | 62.0 | 96.24 | 909.8 | 1,006.06 |
| 1-5 | 1 | API PSN | 73.0 | | 0.34 | 1,006.1 | 1,006.40 |
| 1-6 | 1 | Tubing Tail Joint | 73.0 | 62.0 | 9.61 | 1,006.4 | 1,016.01 |
| 1-7 | 1 | Gas Separator | 125.7 | | 3.24 | 1,016.0 | 1,019.25 |

Wellheads

Casing bowl, Woodgroup on 8/26/2012 19:45

| Type | | | | | Make | |
|-------------|-------------|-----------|-------|----------|-----------|-----|
| Casing bowl | | | | | Woodgroup | |
| Sec tion | Des | Make | Model | WP (kPa) | Service | Com |
| | Casing Bowl | Woodgroup | | 14,000 | | |



Rod and Pump Details

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | | | | | | | | | |
|---|--|---|--|--------------------------|--|---------------------------------|-----------------------------|-------------------------------|-----------------------|------------|-----------|-----------|
| UWI 100/15-06-002-28W1/00 | | Surface Legal Location 13C-05-002-28W1 | | License # 8001 | | Field Name Pierson | | Province Manitoba | | | | |
| Well Configuration Type HORIZONTAL | | KB Elevation (mKB) | | KB-Ground Distance (mKB) | | KB-Casing Flange Distance (mKB) | | KB-Tubing Head Distance (mKB) | | | | |
| | | 465.3 | | 4.4 | | 4.0 | | | | | | |
| HORIZONTAL - Original Hole, 9/22/2012 11:00:00 AM | | | | Rod Description Rod | | | Set Depth (mKB) 1,006.40 | | Run Date 9/22/2012 | | Pull Date | |
| MD (mKB) Vertical schematic (actual) | | | | Rod Components | | | | | | | | |
| | | | | Jts | Item Description | OD (mm) | Wt (kg/m) | Grade | Scraper Description | Length (m) | Top (mKB) | Btm (mKB) |
| -3.1 | | | | 1 | Polished rod | 38.1 | | NULL | | 9.10 | -3.14 | 5.96 |
| -1.9 | | | | 1 | Scrapered TB pony | 22.2 | | D | TB FCE | 2.44 | 5.96 | 8.40 |
| 0.0 | | | | 1 | Scrapered TB pony | 22.2 | | D | TB FCE | 3.06 | 8.40 | 11.46 |
| 0.5 | | | | 68 | Scrapered TB rods | 22.2 | | D | TB | 518.30 | 11.46 | 529.76 |
| 2.2 | | | | 22 | Scrapered NETB rods | 19.0 | | D | NETB | 167.68 | 529.76 | 697.44 |
| 3.7 | | | | 37 | Scrapered NETB rods w/ rollers | 19.0 | | D | NETB | 303.47 | 697.44 | 1,000.91 |
| 3.9 | | | | 1 | CEFV 55712 25-200 RSAC 18-1 20 R.P.A. 184" | | | | | 5.49 | 1,000.91 | 1,006.40 |
| 4.0 | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | |
| 8.4 | | | | | | | | | | | | |
| 11.4 | | | | | | | | | | | | |
| 11.5 | | | | | | | | | | | | |
| 16.6 | | | | | | | | | | | | |
| 30.0 | | | | | | | | | | | | |
| 36.5 | | | | | | | | | | | | |
| 147.5 | | | | | | | | | | | | |
| 147.9 | | | | | | | | | | | | |
| 161.3 | | | | | | | | | | | | |
| 161.8 | | | | | | | | | | | | |
| 529.8 | | | | | | | | | | | | |
| 697.4 | | | | | | | | | | | | |
| 908.9 | | | | | | | | | | | | |
| 908.9 | | | | | | | | | | | | |
| 1,000.9 | | | | | | | | | | | | |
| 1,006.1 | | | | | | | | | | | | |
| 1,006.4 | | | | | | | | | | | | |
| 1,016.0 | | | | | | | | | | | | |
| 1,016.0 | | | | | | | | | | | | |
| 1,019.2 | | | | | | | | | | | | |
| 1,077.2 | | | | | | | | | | | | |
| 1,081.5 | | | | | | | | | | | | |
| 1,091.0 | | | | | | | | | | | | |
| 1,092.0 | | | | | | | | | | | | |
| 1,131.0 | | | | | | | | | | | | |
| 1,132.0 | | | | | | | | | | | | |
| 1,171.0 | | | | | | | | | | | | |
| 1,172.0 | | | | | | | | | | | | |
| 1,211.0 | | | | | | | | | | | | |
| 1,212.0 | | | | | | | | | | | | |
| 1,251.0 | | | | | | | | | | | | |
| 1,252.0 | | | | | | | | | | | | |
| 1,286.0 | | | | | | | | | | | | |
| 1,287.0 | | | | | | | | | | | | |
| 1,318.0 | | | | | | | | | | | | |
| 1,319.0 | | | | | | | | | | | | |
| 1,356.0 | | | | | | | | | | | | |
| 1,357.0 | | | | | | | | | | | | |
| 1,391.0 | | | | | | | | | | | | |
| 1,392.0 | | | | | | | | | | | | |
| 1,425.0 | | | | | | | | | | | | |
| 1,426.0 | | | | | | | | | | | | |
| 1,461.0 | | | | | | | | | | | | |
| 1,462.0 | | | | | | | | | | | | |
| 1,497.0 | | | | | | | | | | | | |
| 1,498.0 | | | | | | | | | | | | |
| 1,531.0 | | | | | | | | | | | | |
| 1,532.0 | | | | | | | | | | | | |
| 1,566.0 | | | | | | | | | | | | |
| 1,567.0 | | | | | | | | | | | | |
| 1,598.0 | | | | | | | | | | | | |
| 1,599.0 | | | | | | | | | | | | |
| 1,636.0 | | | | | | | | | | | | |
| 1,637.0 | | | | | | | | | | | | |
| 1,671.0 | | | | | | | | | | | | |
| 1,672.0 | | | | | | | | | | | | |
| 1,672.0 | | | | | | | | | | | | |
| 1,681.8 | | | | | | | | | | | | |
| 1,682.2 | | | | | | | | | | | | |
| 1,695.6 | | | | | | | | | | | | |
| 1,696.0 | | | | | | | | | | | | |
| 1,696.0 | | | | | | | | | | | | |



Rod and Pump Details

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |

| HORIZONTAL - Original Hole, 9/21/2012 4:46:32 PM | | Rod Description | | Set Depth (mKB) | Run Date | Pull Date | | | | | |
|--|-----------------------------|--|----------------|------------------|----------|-----------|-------|---------------------|------------|-----------|-----------|
| MD (mKB) | Vertical schematic (actual) | | Rod Components | | | | | | | | |
| B | | | Jts | Item Description | OD (mm) | Wt (kg/m) | Grade | Scraper Description | Length (m) | Top (mKB) | Btm (mKB) |
| -1.9 | | Stretch; 3.67-3.87; 0.20; 73.0; 1-1 | | | | | | | | | |
| 0.0 | | Casing Joints; -1.95-11.38; 13.33; 139.7; 125.7; 2-2 | | | | | | | | | |
| 0.5 | | Casing Pup Joint; 11.38-16.62; 5.24; 139.7; 125.7; 2-3 | | | | | | | | | |
| 2.2 | | Casing Joints; 16.62-29.97; 13.35; 139.7; 125.7; 2-4 | | | | | | | | | |
| 3.7 | | Casing Pup Joint; 29.97-36.51; 6.54; 139.7; 125.7; 2-5 | | | | | | | | | |
| 3.9 | | Casing Joints; 0.50-147.48; 146.98; 219.1; 205.7; 1-1 | | | | | | | | | |
| 11.4 | | Float Collar; 147.48-147.92; 0.44; 219.1; 205.7; 1-2 | | | | | | | | | |
| 16.6 | | Casing Joints; 147.92-161.28; 13.36; 219.1; 205.7; 1-3 | | | | | | | | | |
| 30.0 | | Float Shoe; 161.28-161.77; 0.49; 219.1; 205.7; 1-4 | | | | | | | | | |
| 36.5 | | Tubing; 3.87-908.93; 905.06; 73.0; 62.0; 1-2 | | | | | | | | | |
| 147.5 | | Casing Joints; 36.51-1,077.21; 1,040.70; 139.7; 125.7; 2-6 | | | | | | | | | |
| 147.9 | | Anchor KDA-L; 908.93-909.82; 0.89; 125.7; 62.0; 1-3 | | | | | | | | | |
| 161.3 | | Tubing; 909.82-1,006.06; 96.24; 73.0; 62.0; 1-4 | | | | | | | | | |
| 161.8 | | API PSN; 1,006.06-1,006.40; 0.34; 73.0; 1-5 | | | | | | | | | |
| 908.9 | | Tubing Tail Joint; 1,006.40-1,016.01; 9.61; 73.0; 62.0; 1-6 | | | | | | | | | |
| 909.8 | | Gas Separator; 1,016.01-1,019.25; 3.24; 125.7; 1-7 | | | | | | | | | |
| 1,006.1 | | Casing Pup Joint; 1,077.21-1,081.53; 4.32; 139.7; 125.7; 2-7 | | | | | | | | | |
| 1,006.4 | | Perforated; 1,091.00-1,092.00; 9/6/2012 | | | | | | | | | |
| 1,016.0 | | Perforated; 1,131.00-1,132.00; 9/6/2012 | | | | | | | | | |
| 1,019.2 | | Perforated; 1,171.00-1,172.00; 9/6/2012 | | | | | | | | | |
| 1,077.2 | | Perforated; 1,211.00-1,212.00; 9/6/2012 | | | | | | | | | |
| 1,081.5 | | Perforated; 1,251.00-1,252.00; 9/6/2012 | | | | | | | | | |
| 1,091.0 | | Perforated; 1,286.00-1,287.00; 9/6/2012 | | | | | | | | | |
| 1,091.5 | | Perforated; 1,318.00-1,319.00; 9/6/2012 | | | | | | | | | |
| 1,092.0 | | Perforated; 1,356.00-1,357.00; 9/6/2012 | | | | | | | | | |
| 1,131.0 | | Casing Joints; 1,081.53-1,681.81; 600.28; 139.7; 125.7; 2-8 | | | | | | | | | |
| 1,132.0 | | Perforated; 1,391.00-1,392.00; 9/6/2012 | | | | | | | | | |
| 1,171.0 | | Perforated; 1,425.00-1,426.00; 9/6/2012 | | | | | | | | | |
| 1,172.0 | | Perforated; 1,461.00-1,462.00; 9/6/2012 | | | | | | | | | |
| 1,211.0 | | Perforated; 1,497.00-1,498.00; 9/6/2012 | | | | | | | | | |
| 1,212.0 | | Perforated; 1,531.00-1,532.00; 9/6/2012 | | | | | | | | | |
| 1,251.0 | | Perforated; 1,566.00-1,567.00; 9/6/2012 | | | | | | | | | |
| 1,252.0 | | Perforated; 1,598.00-1,599.00; 9/6/2012 | | | | | | | | | |
| 1,286.0 | | Perforated; 1,636.00-1,637.00; 9/6/2012 | | | | | | | | | |
| 1,287.0 | | Perforated; 1,671.00-1,672.00; 9/6/2012 | | | | | | | | | |
| 1,318.0 | | Float Collar; 1,681.81-1,682.22; 0.41; 139.7; 125.7; 2-9 | | | | | | | | | |
| 1,319.0 | | Casing Joints; 1,682.22-1,695.56; 13.34; 139.7; 125.7; 2-10 | | | | | | | | | |
| 1,357.0 | | Float Shoe; 1,695.56-1,696.00; 0.44; 139.7; 125.1; 2-11 | | | | | | | | | |
| 1,391.0 | | | | | | | | | | | |
| 1,392.0 | | | | | | | | | | | |
| 1,425.0 | | | | | | | | | | | |
| 1,426.0 | | | | | | | | | | | |
| 1,461.0 | | | | | | | | | | | |
| 1,462.0 | | | | | | | | | | | |
| 1,497.0 | | | | | | | | | | | |
| 1,498.0 | | | | | | | | | | | |
| 1,531.0 | | | | | | | | | | | |
| 1,532.0 | | | | | | | | | | | |
| 1,566.0 | | | | | | | | | | | |
| 1,567.0 | | | | | | | | | | | |
| 1,598.0 | | | | | | | | | | | |
| 1,599.0 | | | | | | | | | | | |
| 1,636.0 | | | | | | | | | | | |
| 1,637.0 | | | | | | | | | | | |
| 1,642.8 | | | | | | | | | | | |
| 1,671.0 | | | | | | | | | | | |
| 1,672.0 | | | | | | | | | | | |
| 1,681.8 | | | | | | | | | | | |
| 1,682.2 | | | | | | | | | | | |
| 1,695.6 | | | | | | | | | | | |
| 1,696.0 | | | | | | | | | | | |

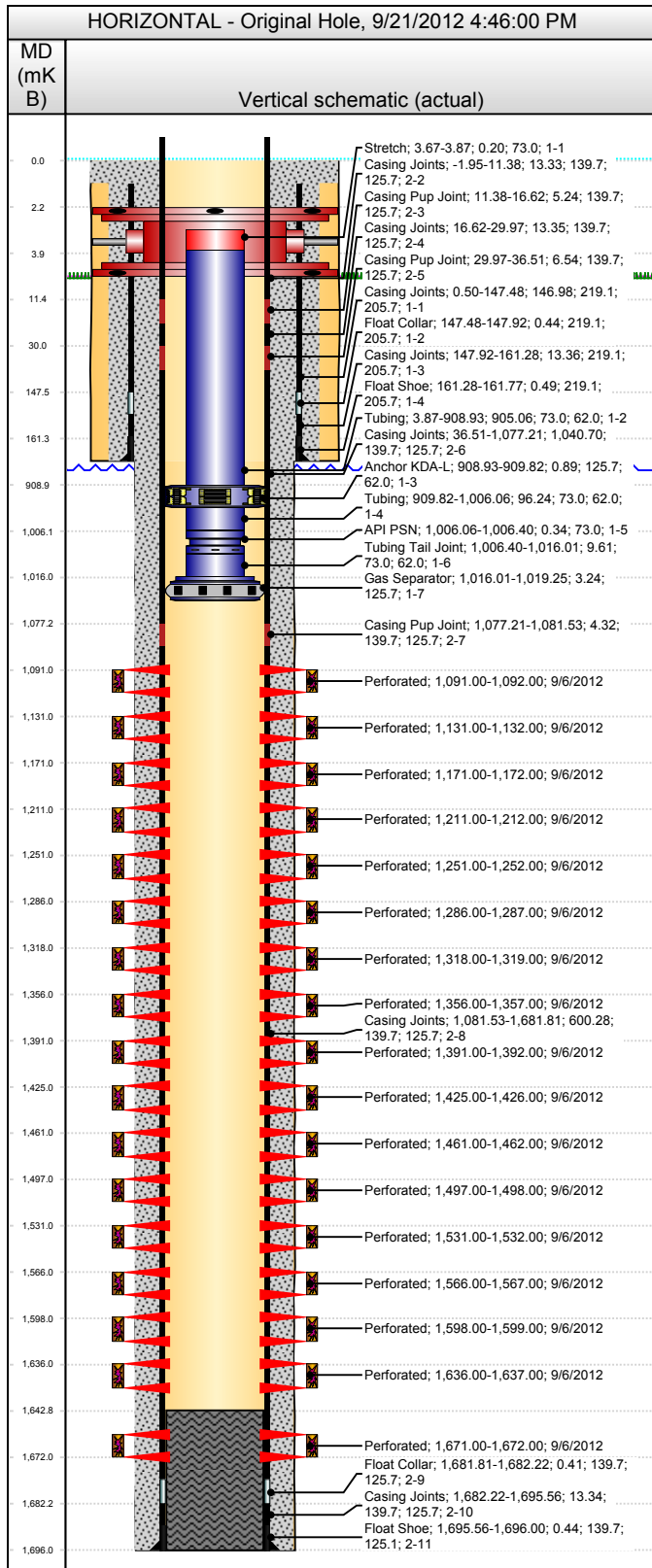


EOG Downhole Schematic

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | | |
|------------------------------|---|-----------------------|--------------------------|------------------------------|---------------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | Province Manitoba | License # 8001 | Well Configuration Type HORIZONTAL |
| KB Elevation (mKB) 465.3 | Ground Elevation (mKB) 460.9 | KB-CF (mKB) 4.0 | KB-TH (mKB) | Total Depth (mKB) 1,696.0 | Spud Date 8/26/2012 |
| | | | Rig Release 8/30/2012 | | |



| Casing Strings | | | | |
|----------------|---------|---------------|-------|-----------------|
| Csg Des | OD (mm) | Wt/Len (kg/m) | Grade | Set Depth (mKB) |
| Surface | 219.1 | 35.716 | J-55 | 161.77 |
| Production | 139.7 | 23.067 | J-55 | 1,696.00 |

| Cement Stages | | | | | | |
|--------------------------|--------|-----------|-----------|------------|------------------|---------------------|
| Des | Type | Top (mKB) | Btm (mKB) | Stroke (m) | Recip Rate (spm) | Vol Cement Ret (m³) |
| Surface Casing Cement | Casing | 0.00 | 161.80 | 2.00 | 2 | 2.00 |
| Production Casing Cement | Casing | 0.00 | 1,696.00 | 5.00 | 6 | 5.00 |

| Perforations | | | |
|--------------------------|-----------|-----------|--|
| Zone | Top (mKB) | Btm (mKB) | Current Status |
| Spearfish, Original Hole | 1,091.0 | 1,092.0 | Open - Not Flowing (1,091.0 - 1,092.0) |
| Spearfish, Original Hole | 1,131.0 | 1,132.0 | Open - Not Flowing (1,131.0 - 1,132.0) |
| Spearfish, Original Hole | 1,171.0 | 1,172.0 | Open - Not Flowing (1,171.0 - 1,172.0) |
| Spearfish, Original Hole | 1,211.0 | 1,212.0 | Open - Not Flowing (1,211.0 - 1,212.0) |
| Spearfish, Original Hole | 1,251.0 | 1,252.0 | Open - Not Flowing (1,251.0 - 1,252.0) |
| Spearfish, Original Hole | 1,286.0 | 1,287.0 | Open - Not Flowing (1,286.0 - 1,287.0) |
| Spearfish, Original Hole | 1,318.0 | 1,319.0 | Open - Not Flowing (1,318.0 - 1,319.0) |
| Spearfish, Original Hole | 1,356.0 | 1,357.0 | Open - Not Flowing (1,356.0 - 1,357.0) |
| Spearfish, Original Hole | 1,391.0 | 1,392.0 | Open - Not Flowing (1,391.0 - 1,392.0) |
| Spearfish, Original Hole | 1,425.0 | 1,426.0 | Open - Not Flowing (1,425.0 - 1,426.0) |
| Spearfish, Original Hole | 1,461.0 | 1,462.0 | Open - Not Flowing (1,461.0 - 1,462.0) |
| Spearfish, Original Hole | 1,497.0 | 1,498.0 | Open - Not Flowing (1,497.0 - 1,498.0) |
| Spearfish, Original Hole | 1,531.0 | 1,532.0 | Open - Not Flowing (1,531.0 - 1,532.0) |
| Spearfish, Original Hole | 1,566.0 | 1,567.0 | Open - Not Flowing (1,566.0 - 1,567.0) |
| Spearfish, Original Hole | 1,598.0 | 1,599.0 | Open - Not Flowing (1,598.0 - 1,599.0) |
| Spearfish, Original Hole | 1,636.0 | 1,637.0 | Open - Not Flowing (1,636.0 - 1,637.0) |
| Spearfish, Original Hole | 1,671.0 | 1,672.0 | Open - Not Flowing (1,671.0 - 1,672.0) |

| Other Picks | | |
|----------------|-----------------|--------------------|
| Formation Name | Top Depth (mKB) | Bottom Depth (mKB) |

| Tubing Strings | | | |
|---|-----------------|-----------|--------------|
| Tubing - Production set at 1,019.25mKB on 9/21/2012 15:00 | | | |
| Tubing Description | String Max N... | Wt (kg/m) | String Grade |
| Tubing - Production | 73.0 | 9.673 | J-55 |
| Set Depth (mKB) | | | |
| 1,019.25 | | | |
| Comment | | | |

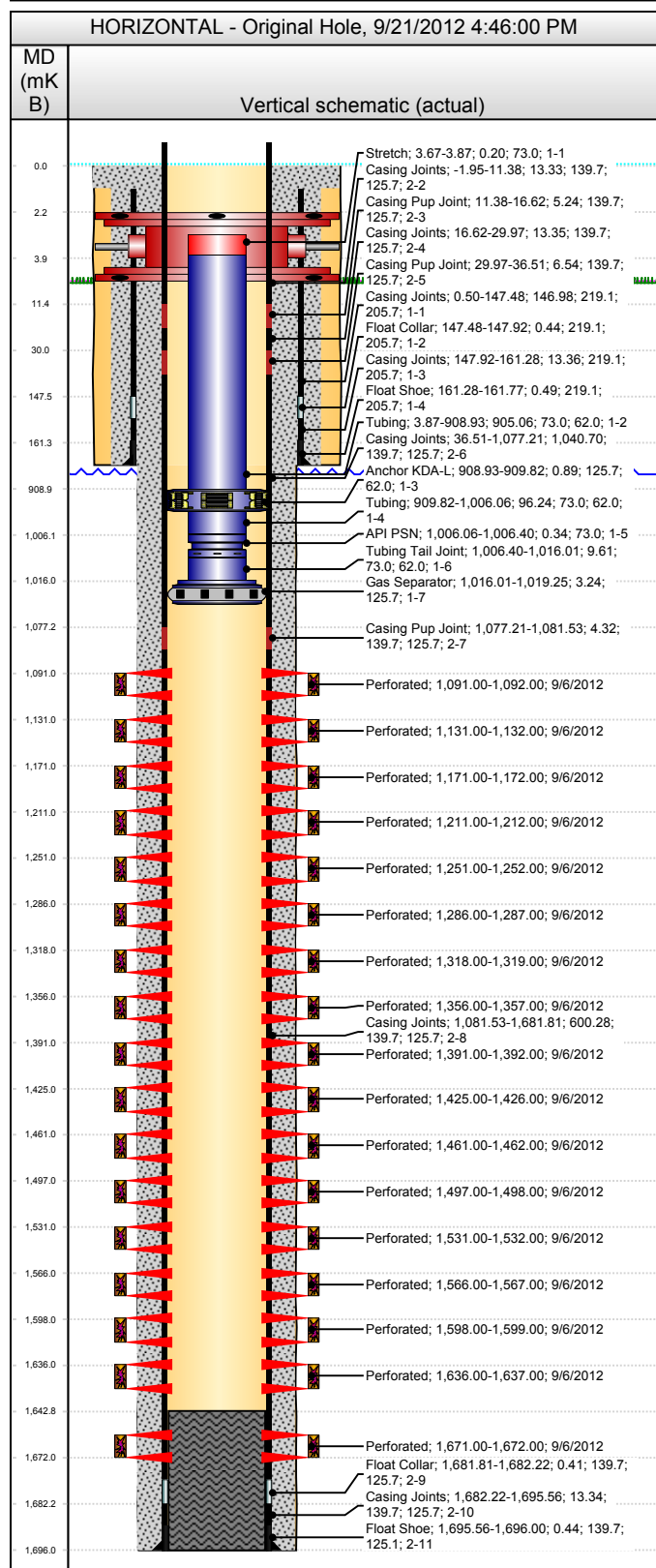
| Item # | Jts | Item Des | OD (mm) | ID (mm) | Len (m) | Top (mKB) | Btm (mKB) |
|--------|-----|----------|---------|---------|---------|-----------|-----------|
| 1-1 | 1 | Stretch | 73.0 | | 0.20 | 3.7 | 3.87 |



EOG Downhole Schematic

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General



| Item # | Jts | Item Des | OD (mm) | ID (mm) | Len (m) | Top (mKB) | Btm (mKB) |
|--------|-----|-------------------|---------|---------|---------|-----------|-----------|
| 1-2 | 94 | Tubing | 73.0 | 62.0 | 905.06 | 3.9 | 908.93 |
| 1-3 | 1 | Anchor KDA-L | 125.7 | 62.0 | 0.89 | 908.9 | 909.82 |
| 1-4 | 10 | Tubing | 73.0 | 62.0 | 96.24 | 909.8 | 1,006.06 |
| 1-5 | 1 | API PSN | 73.0 | | 0.34 | 1,006.1 | 1,006.40 |
| 1-6 | 1 | Tubing Tail Joint | 73.0 | 62.0 | 9.61 | 1,006.4 | 1,016.01 |
| 1-7 | 1 | Gas Separator | 125.7 | | 3.24 | 1,016.0 | 1,019.25 |

Wellheads

Casing bowl, Woodgroup on 8/26/2012 19:45

| Type | Make | | | | | |
|-------------|-------------|-----------|-------|----------|---------|-----|
| Casing bowl | Woodgroup | | | | | |
| Sec tion | Des | Make | Model | WP (kPa) | Service | Com |
| | Casing Bowl | Woodgroup | | 14,000 | | |

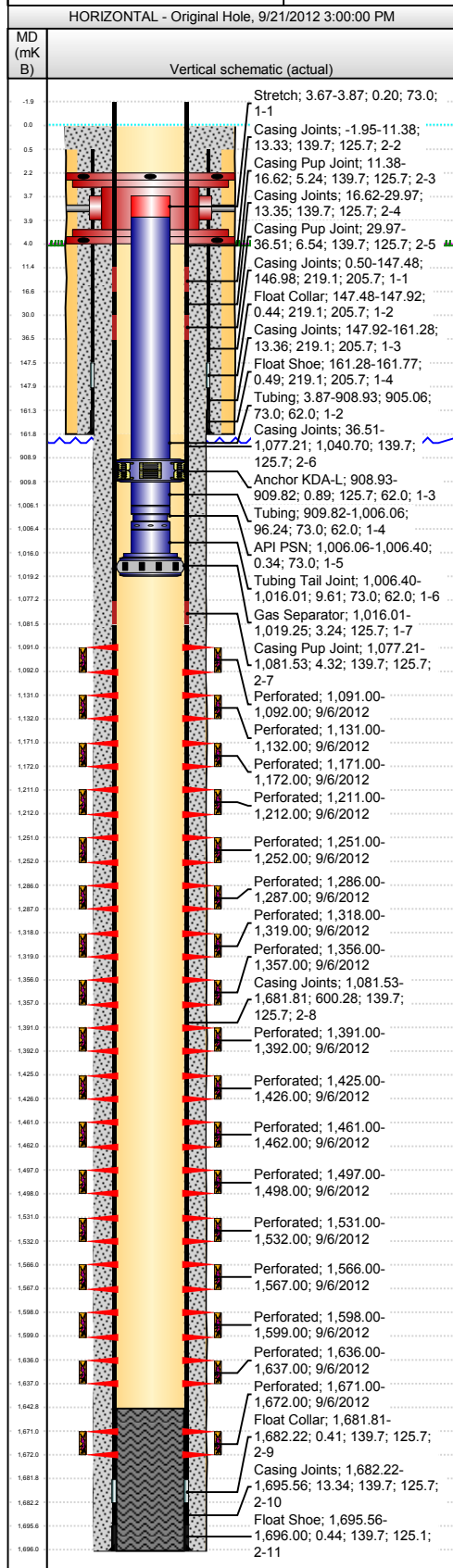


Tubing

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |



| Tubing | | | | | | | | | |
|---------------------|-------------------|---------|---------|-----------|-----------------|------------|-----------|-----------|-----------|
| Tubing Description | | | | | Set Depth (mKB) | | Run Date | | Pull Date |
| Tubing - Production | | | | | 1,019.25 | | 9/21/2012 | | |
| Jts | Item Des | OD (mm) | ID (mm) | Wt (kg/m) | Grade | Top Thread | Len (m) | Top (mKB) | Btm (mKB) |
| 1 | Stretch | 73.0 | | | | | 0.20 | 3.7 | 3.87 |
| 94 | Tubing | 73.0 | 62.0 | 9.673 | J-55 | | 905.06 | 3.9 | 908.93 |
| 1 | Anchor KDA-L | 125.7 | 62.0 | | | | 0.89 | 908.9 | 909.82 |
| 10 | Tubing | 73.0 | 62.0 | 9.673 | J-55 | | 96.24 | 909.8 | 1,006.06 |
| 1 | API PSN | 73.0 | | | | | 0.34 | 1,006.1 | 1,006.40 |
| 1 | Tubing Tail Joint | 73.0 | 62.0 | 9.673 | J-55 | | 9.61 | 1,006.4 | 1,016.01 |
| 1 | Gas Separator | 125.7 | | | | | 3.24 | 1,016.0 | 1,019.25 |

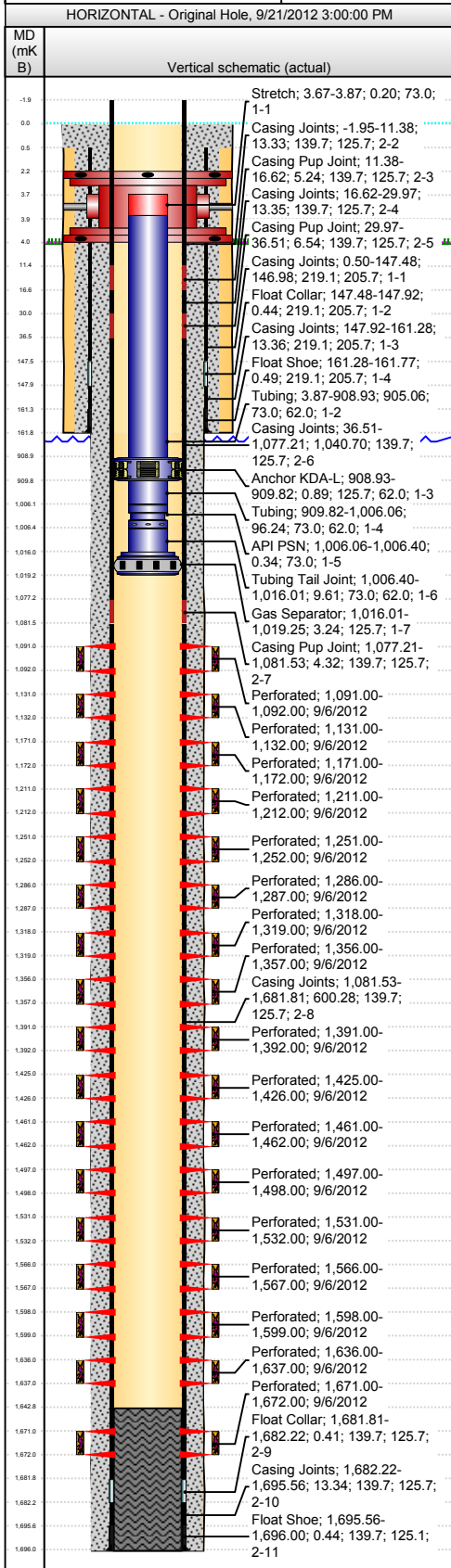


Tubing

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Security Status: General

| | | | | |
|---------------------------------------|---|---------------------------------|--|-------------------------------|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Field Name Pierson | Province Manitoba |
| Well Configuration Type HORIZONTAL | KB Elevation (mKB) 465.3 | KB-Ground Distance (mKB) 4.4 | KB-Casing Flange Distance (mKB) 4.0 | KB-Tubing Head Distance (mKB) |



| Tubing | | | | | | | | | |
|---------------------|-------------------|---------|---------|-----------|-----------------|------------|-----------|-----------|-----------|
| Tubing Description | | | | | Set Depth (mKB) | | Run Date | | Pull Date |
| Tubing - Production | | | | | 1,019.25 | | 9/21/2012 | | |
| Jts | Item Des | OD (mm) | ID (mm) | Wt (kg/m) | Grade | Top Thread | Len (m) | Top (mKB) | Btm (mKB) |
| 1 | Stretch | 73.0 | | | | | 0.20 | 3.7 | 3.87 |
| 94 | Tubing | 73.0 | 62.0 | 9.673 | J-55 | | 905.06 | 3.9 | 908.93 |
| 1 | Anchor KDA-L | 125.7 | 62.0 | | | | 0.89 | 908.9 | 909.82 |
| 10 | Tubing | 73.0 | 62.0 | 9.673 | J-55 | | 96.24 | 909.8 | 1,006.06 |
| 1 | API PSN | 73.0 | | | | | 0.34 | 1,006.1 | 1,006.40 |
| 1 | Tubing Tail Joint | 73.0 | 62.0 | 9.673 | J-55 | | 9.61 | 1,006.4 | 1,016.01 |
| 1 | Gas Separator | 125.7 | | | | | 3.24 | 1,016.0 | 1,019.25 |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 1.0, Report Date: 8/31/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

| | | |
|---------------------------------|------------------------|-----------------------------|
| Rigs / Coil Tubing Units | | |
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

| | | |
|--------------------------------|------------------------------|--------------------------------|
| Job Contacts | | |
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|--|--|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 6,490.00 | Cum Field Est To Date (Cost) 6,490.00 |
|-----------------------|--|--|--|

| | | | |
|-----------------------|--------------------------|------------------------|-----------------------|
| Daily Readings | | | |
| Weather Sunny | Temperature (°F) 82.4 | Road Condition Soft | Rig Time (hr) 3.00 |

Operations Summary
10:00. Had Woodgroup (Sto/Van) cut & dress casing, install casing vent, primary and secondary seal, and Woodgroup 3000# 7 1/16" Tubing Head SN P0000 36374 - 0100 - 005. Pressure tested the seals and R49 ring gasket to 14,000 kPa. held OK. 13:00

Operations Next Report Period
Well is shut in.

| Time Log | | | | | |
|-----------------|----------|----------|----------|------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 10:00 | 10:30 | 0.50 | SMTG | Safety Meeting | Held a safety and procedures meeting with Woodgroup and issued a safe work permit. Discussed high pressure, pinch points and overhead hazards. |
| 10:30 | 12:30 | 2.00 | IWHD | Install Wellhead | Cut and dressed the 139.7 mm casing. Installed the Primary Seal. Installed Woodgroup 3000# 7 1/16" Tubing Head SN P0000 36374 - 0100 - 005 c/w Secondary Seal. Installed the Surface Casing Vent. |
| 12:30 | 13:00 | 0.50 | PTST | Pressure Test | Pressure tested the Tubing Head, R-49 ring gasket and seals to 14,000 kPa, held OK for 15 minutes. |
| 13:00 | 07:00 | 18.00 | inactive | inactive | Secured the well. Ready for service rig. |

| | | | | |
|------------------------------|---------------|-----------------|----------------|------------------|
| Report Fluids Summary | | | | |
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| | | | | |

| | | | |
|----------------------|-----|------|-----|
| Safety Checks | | | |
| Time | Des | Type | Com |
| | | | |

| | | | | |
|-------------|------|------------|------------|--------|
| Logs | | | | |
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| | | | | |
|---------------------|------------|------------|----------------|-------------|
| Perforations | | | | |
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| | | | | |

| | | |
|-----------------------------|---------|--------------------|
| Stimulations Summary | | |
| Type | Subtype | Stim/Treat Company |
| | | |

| | | | |
|------------------------------|------|------------|------------|
| Stimulation Intervals | | | |
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| | | | |

| | | | | | |
|-------------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Tubing Run | | | | | |
| Run Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
| | | | | | |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 1.0, Report Date: 8/31/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

Tubing Pulled

| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
|-----------|--------------------|------------------|----------------------------|-----------------------|--------------|
|-----------|--------------------|------------------|----------------------------|-----------------------|--------------|

Other in Hole Run (Bridge Plugs, etc)

| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) |
|----------|-----|---------|------------|------------|
|----------|-----|---------|------------|------------|

Other in Hole Pulled (Bridge Plugs, etc)

| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) |
|-----------|-----|------------|------------|---------|
|-----------|-----|------------|------------|---------|

Cement

| Start Time | Des | Type | String | Cement Comp |
|------------|-----|------|--------|-------------|
|------------|-----|------|--------|-------------|

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 2.0, Report Date: 9/6/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

| Rigs / Coil Tubing Units | | |
|--------------------------|------------------------|-----------------------------|
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

| Job Contacts | | |
|--------------------------------|------------------------------|--------------------------------|
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|---|---|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 40,760.55 | Cum Field Est To Date (Cost) 47,250.55 |
|-----------------------|--|---|---|

| Daily Readings | | | |
|---------------------|--------------------------|------------------------|------------------------|
| Weather Overcast | Temperature (°F) 73.4 | Road Condition Good | Rig Time (hr) 11.00 |

Operations Summary
07:30 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a inspection of the lease and equip. SICP = 0. Rigged up. Made up and ran 17 - 1 m 86 mm EHSC TBG conveyed guns with 9 spm 0 degree phasing (orientated up) with 16.5 g DP charges c/w fill flows (2/interval), subs, swivels, 8,900 kPa firing heads and a mechanical CCL above the gun assembly on 60.3 mm work string. Casing displaced while running in the hole. Picked top marker at 1078.41 mKB giving a correction of -1.20 m, picked the bottom of the marker at 1082.69 mKB giving a correction of -1.16 m. Pick collar at 1095.98 mKB giving a correction of -1.11 m. Tagged PBTD at 1682.93 mKB, 1.12 m deeper by tubing tally (uncorrected). Pick collar at 1095.98 mKB giving a correction of -1.11 m. Raised guns 7.16 m into position with top shot at 1091.0 mKB with 4.62 m in on #162.

Hole was full, reverse circulated well bore for 10 min, closed TBG side in and slowly pressured up to 3,500 kPa then quickly pressured up. Guns could be felt going off at 8,900 kPa, continued pumping approx 5 sec to 9,500 kPa.

Perforated 17 intervals as follows:

1671 - 1672 mKB
1636 - 1637 mKB
1598 - 1599 mKB
1566 - 1567 mKB
1531 - 1532 mKB
1497 - 1498 mKB
1461 - 1462 mKB
1425 - 1426 mKB
1391 - 1392 mKB
1356 - 1357 mKB
1318 - 1319 mKB
1286 - 1287 mKB
1251 - 1252 mKB
1211 - 1212 mKB
1171 - 1172 mKB
1131 - 1132 mKB
1091 - 1092 mKB

Pulled and laid down tubing onto trailer. Laid down 17 guns. Note: all guns and all shots fired, observed no oil on guns, no gas blows. Removed BOP and secured well. Rigged out and moved service rig to EOG 103/3-26-1-25W1.

| |
|---|
| Operations Next Report Period Well is shut in. |
|---|

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 07:00 | 07:30 | 0.50 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 07:30 | 08:00 | 0.50 | SMTG | Safety Meeting | 7:30 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Contacted MIED&M Waskada and notified them via e-mail of rig move and scope of operations. |
| 08:00 | 08:45 | 0.75 | SRIG | Rig Up/Down | Rigged up the rig and equipment to EOG, Falcon, MIED&M, CAODC and OH&S specs. |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 2.0, Report Date: 9/6/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 08:45 | 11:30 | 2.75 | RUTB | Run Tubing | Made up and ran 17 - 1 m 86 mm EHSC TBG conveyed guns with 9 spm 0 degree phasing (orientated up) with 16.5 g DP charges c/w fill flows (2/interval), subs, swivels, 8,900 kPa firing heads and a mechanical CCL above the gun assembly on 60.3 mm work string. Casing displaced while running in the hole. Picked top marker at 1078.41 mKB giving a correction of -1.20 m, picked the bottom of the marker at 1082.69 mKB giving a correction of -1.16 m. Pick collar at 1095.98 mKB giving a correction of -1.11 m. Tagged PBTD at 1682.93 mKB, 1.12 m deeper by tubing tally (uncorrected). Pick collar at 1095.98 mKB giving a correction of -1.11 m. Raised guns 7.16 m into position with top shot at 1091.0 mKB with 4.62 m in on #162. |
| 11:30 | 12:00 | 0.50 | PFRT | Perforating | Hole was full, reverse circulated well bore for 10 min, closed TBG side in and slowly pressured up to 3,500 kPa then quickly pressured up. Guns could be felt going off at 8,900 kPa, continued pumping approx 5 sec to 9,500 kPa. 11:40 Perforated 17 intervals as follows: 1671 - 1672 mKB 1636 - 1637 mKB 1598 - 1599 mKB 1566 - 1567 mKB 1531 - 1532 mKB 1497 - 1498 mKB 1461 - 1462 mKB 1425 - 1426 mKB 1391 - 1392 mKB 1356 - 1357 mKB 1318 - 1319 mKB 1286 - 1287 mKB 1251 - 1252 mKB 1211 - 1212 mKB 1171 - 1172 mKB 1131 - 1132 mKB 1091 - 1092 mKB |
| 12:00 | 15:00 | 3.00 | PULT | Pull Tubing | Pulled and laid out 162 - 60.3 mm tubing jts. onto the trailer. Laid down 17 guns. Note that all guns and all shots fired, observed no oil on guns, no gas blows. |
| 15:00 | 15:30 | 0.50 | BOPR | Remove BOP's | Removed and secured BOP. Secured well. |
| 15:30 | 17:00 | 1.50 | SRIG | Rig Up/Down | Rigged out service rig, and equipment. Changed out weight indicator on rig. |
| 17:00 | 18:30 | 1.50 | RMOV | Rig Move | Moved service rig and associated equipment to EOG 103/3-26-1-25W1. SDFN 18:30 hrs. |
| 18:30 | 07:00 | 12.50 | LOCL | Lock Wellhead & Secure | Well shut in. |

| Report Fluids Summary | | | | |
|-----------------------|---------------|-----------------|----------------|------------------|
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| Water | 62.9 | 78.6 | 62.9 | 78.6 |

| Safety Checks | | | |
|---------------|-----|------|-----|
| Time | Des | Type | Com |
| | | | |

| Logs | | | | |
|------|------|------------|------------|--------|
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| Perforations | | | | |
|--------------|------------|------------|---|--------------------------|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| 11:40 | 3,579.4 | 3,582.7 | Open - Not Flowing (3,579.4 - 3,582.7 ftKB) | Spearfish, Original Hole |
| 11:40 | 3,710.6 | 3,713.9 | Open - Not Flowing (3,710.6 - 3,713.9 ftKB) | Spearfish, Original Hole |
| 11:40 | 3,841.9 | 3,845.1 | Open - Not Flowing (3,841.9 - 3,845.1 ftKB) | Spearfish, Original Hole |
| 11:40 | 3,973.1 | 3,976.4 | Open - Not Flowing (3,973.1 - 3,976.4 ftKB) | Spearfish, Original Hole |
| 11:40 | 4,104.3 | 4,107.6 | Open - Not Flowing (4,104.3 - 4,107.6 ftKB) | Spearfish, Original Hole |
| 11:40 | 4,219.2 | 4,222.4 | Open - Not Flowing (4,219.2 - 4,222.4 ftKB) | Spearfish, Original Hole |
| 11:40 | 4,324.1 | 4,327.4 | Open - Not Flowing (4,324.1 - 4,327.4 ftKB) | Spearfish, Original Hole |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 2.0, Report Date: 9/6/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Perforations | | | | | |
|--------------|------------|------------|---|--------------------------|--|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone | |
| 11:40 | 4,448.8 | 4,452.1 | Open - Not Flowing (4,448.8 - 4,452.1 ftKB) | Spearfish, Original Hole | |
| 11:40 | 4,563.6 | 4,566.9 | Open - Not Flowing (4,563.6 - 4,566.9 ftKB) | | |
| 11:40 | 4,675.2 | 4,678.5 | Open - Not Flowing (4,675.2 - 4,678.5 ftKB) | | |
| 11:40 | 4,793.3 | 4,796.6 | Open - Not Flowing (4,793.3 - 4,796.6 ftKB) | | |
| 11:40 | 4,911.4 | 4,914.7 | Open - Not Flowing (4,911.4 - 4,914.7 ftKB) | | |
| 11:40 | 5,023.0 | 5,026.2 | Open - Not Flowing (5,023.0 - 5,026.2 ftKB) | | |
| 11:40 | 5,137.8 | 5,141.1 | Open - Not Flowing (5,137.8 - 5,141.1 ftKB) | | |
| 11:40 | 5,242.8 | 5,246.1 | Open - Not Flowing (5,242.8 - 5,246.1 ftKB) | | |
| 11:40 | 5,367.5 | 5,370.7 | Open - Not Flowing (5,367.5 - 5,370.7 ftKB) | | |
| 11:40 | 5,482.3 | 5,485.6 | Open - Not Flowing (5,482.3 - 5,485.6 ftKB) | | |

| Stimulations Summary | | |
|----------------------|---------|--------------------|
| Type | Subtype | Stim/Treat Company |

| Stimulation Intervals | | | |
|-----------------------|------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| | | | |

| Tubing Run | | | | | |
|------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Run Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |

| Tubing Pulled | | | | | |
|---------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |

| Other in Hole Run (Bridge Plugs, etc) | | | | | |
|---------------------------------------|-----|---------|------------|------------|--|
| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) | |
| | | | | | |

| Other in Hole Pulled (Bridge Plugs, etc) | | | | | |
|--|-----|------------|------------|---------|--|
| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) | |
| | | | | | |

| Cement | | | | | |
|------------|-----|------|--------|-------------|--|
| Start Time | Des | Type | String | Cement Comp | |
| | | | | | |

Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 3.0, Report Date: 9/18/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

Rigs / Coil Tubing Units

| | | |
|---------------------|------------------------|-----------------------------|
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

Job Contacts

| | | |
|--------------------------------|------------------------------|--------------------------------|
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|---|---|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 19,649.57 | Cum Field Est To Date (Cost) 66,900.12 |
|-----------------------|--|---|---|

Daily Readings

| | | | |
|------------------|--------------------------|------------------------|------------------------|
| Weather Sunny | Temperature (°F) 64.4 | Road Condition Good | Rig Time (hr) 12.00 |
|------------------|--------------------------|------------------------|------------------------|

Operations Summary
19:00. Moved in and spotted Halliburton Energy Services (Boots & Coots) Medicine Hat coil rig # CM-2 mast unit c/w 2,115.0 m of QT 900 73.00 mm (6.82 m³ volume) coil tubing. SICP = 0. Held a safety meeting with all personnel on-site. Issued a safe work permit.

Rigged in and prepared to do the 17 interval x 4.0 tonne frac. Rigged up the coil rig. Function test BOPs. Installed and pressure tested the BOPs. Pressure tested the coil connector. Pressure test lubricator, and main line.

Ran in the hole pressure testing in vertical and horizontal. Correct to marker joint. Tag PBTD and reverse circulate to clean up TBG. Conducted 4 T fracs on intervals #1 - #2. 7:00

Operations Next Report Period

Time Log

| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
|------------|----------|----------|--------|----------------|--|
| 19:00 | 19:15 | 0.25 | | Safety Meeting | 19:00 Ryan McGregor held a safety and procedures meeting discussing use of spotters on very small lease, ERP, whip checks, and MSDSs. Issued a EOG safe work permit. |
| 19:15 | 21:15 | 2.00 | RMOV | Rig Move | Contacted MIED&M and notified them of operations. Moved in and spotted Halliburton Energy Services Medicine Hat frac crew and coil rig # CM-2 mast unit c/w 2,115.00 m of QT 900 73.00 mm (6.82 m³ volume) coil tubing. SICP = 0. |
| 21:15 | 00:15 | 3.00 | SRIG | Rig Up/Down | Rigged in and prepared to do the 17 interval X 4.0 tonne frac. Rigged up the coil rig. Installed and pressure tested the BOPs. |
| 00:15 | 01:30 | 1.25 | PTST | Pressure Test | Filled coil with fresh water. Pressure tested coil connection to 15 mPa held. Installed 139.7 mm EasyTrieve frac packer with hydraulic hold down head and 10 K gauges. Pressure tested the lubricator to 15.0 mPa. Pressure test mainline to 45 mPa held O.K. Opened up the 7 1/16" Frac valve. |
| 01:30 | 04:15 | 2.75 | | Run Tubing | Ran in with the packer and pressure tested to 15.0 mPa @ 360.64 mKB, held good. Unset the packer and continued in the hole and located and corrected +0.8 m to the marker at 1077.21 - 1081.53 mKB. Set packer and pressure test to 15 mPa @ 1071.90 mKB, held good. Continued in the hole with the packer and tagged PBTD at 1680.74 mKB. Pulled up and cycled over interval #1. Reverse circulated 15.0 m³ @ 0.5 m³/min to clean up the tubing. Set the packer across interval #1. |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 3.0, Report Date: 9/18/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|-----------|--|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 04:15 | 07:00 | 2.75 | FRAC | Frac. Job | <p>Frac'd the following intervals with Versa Gel (LGC-5 at 25 lbs/m³ loading + CL-11) fluid system using a rate of 600 L/min with 7.0 m³ linear gel pad, 0.25 m³ 15% HCL followed by 1.0 m³ of 50 kg/m³ sand scour, 9.0 m³ of 50 - 600 Kg/m³ ramp and 1.7 m³ of 600 Kg/m³ flatline for a total of 4.0 tonne of 20/40 mesh sand.</p> <p>#1 - 1671 - 1672. Break = 20.8 mPa. Bullhead 7.0 m³ Linear Pad, Pumped 0.25 m³ of 15% HCL acid 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 622 kg/m³. End = 11.3 mPa. ISIP = 8.2 mPa.</p> <p>#2 - 1636 - 1637. Break = 14.3 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 606 kg/m³. End = 11.2 mPa. ISIP = 8.6 mPa.</p> <p>7:00</p> |

| Report Fluids Summary | | | | |
|-----------------------|---------------|-----------------|----------------|------------------|
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| Water | 2,956.2 | 182.4 | 2,956.2 | 182.4 |

| Safety Checks | | | |
|---------------|-----|------|-----|
| Time | Des | Type | Com |
| | | | |

| Logs | | | | |
|------|------|------------|------------|--------|
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| Perforations | | | | |
|--------------|------------|------------|----------------|-------------|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| | | | | |

| Stimulations Summary | | |
|----------------------|---------|---|
| Type Sand Frac | Subtype | Stim/Treat Company Halliburton Energy Services |

| Stimulation Intervals | | | | |
|-----------------------|-----------|------------|------------|--|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) | |
| 1 | Sand Frac | 5,482.3 | 5,485.6 | |
| 2 | Sand Frac | 5,367.5 | 5,370.7 | |
| 3 | Sand Frac | 5,242.8 | 5,246.1 | |
| 4 | Sand Frac | 5,137.8 | 5,141.1 | |
| 5 | Sand Frac | 5,023.0 | 5,026.2 | |
| 6 | Sand Frac | 4,911.4 | 4,914.7 | |
| 7 | Sand Frac | 4,793.3 | 4,796.6 | |
| 8 | Sand Frac | 4,675.2 | 4,678.5 | |
| 9 | Sand Frac | 4,563.6 | 4,566.9 | |
| 10 | Sand Frac | 4,448.8 | 4,452.1 | |
| 11 | Sand Frac | 4,324.1 | 4,327.4 | |
| 12 | Sand Frac | 4,219.2 | 4,222.4 | |
| 13 | Sand Frac | 4,104.3 | 4,107.6 | |
| 14 | Sand Frac | 3,973.1 | 3,976.4 | |
| 15 | Sand Frac | 3,841.9 | 3,845.1 | |
| 16 | Sand Frac | 3,710.6 | 3,713.9 | |
| 17 | Sand Frac | 3,579.4 | 3,582.7 | |
| 18 | Sand Frac | | | |
| 19 | Sand Frac | | | |

| Tubing Run | | | | | |
|------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Run Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
| | | | | | |

| Tubing Pulled | | | | | |
|---------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
| | | | | | |

| Other in Hole Run (Bridge Plugs, etc) | | | | |
|---------------------------------------|-----|---------|------------|------------|
| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) |
| | | | | |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 3.0, Report Date: 9/18/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

Other in Hole Pulled (Bridge Plugs, etc)

| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) |
|-----------|-----|------------|------------|---------|
| | | | | |

Cement

| Start Time | Des | Type | String | Cement Comp |
|------------|-----|------|--------|-------------|
| | | | | |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 4.0, Report Date: 9/19/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

Rigs / Coil Tubing Units

| | | |
|---------------------|------------------------|-----------------------------|
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

Job Contacts

| | | |
|--------------------------------|------------------------------|--------------------------------|
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|--|--|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 261,113.13 | Cum Field Est To Date (Cost) 328,013.25 |
|-----------------------|--|--|--|

Daily Readings

| | | | |
|------------------|--------------------------|------------------------|------------------------|
| Weather Sunny | Temperature (°F) 69.8 | Road Condition Good | Rig Time (hr) 24.00 |
|------------------|--------------------------|------------------------|------------------------|

Operations Summary

07:00. Conducted a walkaround Safety inspection of the lease and equipment. SICP = 0.
Held a safety and procedures meeting with all personnel on-site. Issued a Safe Work permit.

Frac'd the following intervals with Versa Gel (LGC-5 at 25 lbs/m³ loading + CL-11) fluid system using a rate of 600 L/min with 7.0 m³ Linear pad, 0.25 m³ of 15% HCL acid followed by 1.0 m³ of 50 kg/m³ sand scour, 9.0 m³ of 50 - 600 Kg/m³ ramp and 1.7 m³ of 600 Kg/m³ flatline for a total of 4.0 tonne of 20/40 mesh sand.

Conducted 4 T fracs on intervals #03 - #15.

Crew change / hand over, Ryan McGregor held a safety meeting and continued the frac. 19:00

Conducted 4 T fracs on intervals #16 - #17. Ran out of sand on interval #17, 3.5 T total.

POOH with the packer. The packer appeared to be in good condition. Downloaded the pressure recorders. There was no communication below the packer on any of the intervals. Blow coil dry with 800 SCM of N2. Rigged out the Halliburton frac equipment and coil rig. Moved to 100/11-35-002-28W1 23:00

Operations Next Report Period

Finish the Frac. Rig out and move to 100/11-35-002-28W1

Time Log

| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
|------------|----------|----------|--------|----------------|---|
| 07:00 | 07:15 | 0.25 | | Safety Meeting | 07:00 Lucas Graham Held a safety and procedures meeting discussing scope of job to follow and any special duties that may be involved. Hazards, location and road conditions and speed limits were discussed. Leaving the lease clean of any garbage. Discussed hydraulic pressure injection, to take the time to shut down the hydraulic system prior to locating leaks or maintenance |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 4.0, Report Date: 9/19/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|----------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 07:15 | 14:00 | 6.75 | FRAC | Frac. Job | Continue Frac: Frac'd the following intervals with Versa Gel (LGC-5 at 25 lbs/m³ loading + CL-11) fluid system using a rate of 600 L/min with 7.0 m³ Linear pad, 0.25 m³ of 15% HCL acid followed by 1.0 m³ of 50 kg/m³ sand scour, 9.0 m³ of 50 - 600 Kg/m³ ramp and 1.7 m³ of 600 Kg/m³ flatline for a total of 4.0 tonne of 20/40 mesh sand. #3 - 1,598 - 1,599. Break = 15.8 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 617 kg/m³. End = 11.8 mPa. ISIP = 9.0 mPa. #4 - 1,566 - 1,567. Break = 13.9 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 619 kg/m³. End = 11.0 mPa. ISIP = 8.1 mPa. #5 - 1,531 - 1,532. Break = 15.8 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 623 kg/m³. End = 11.4 mPa. ISIP = 8.9 mPa. #6 - 1,497 - 1,498. Break = 14.8 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 617 kg/m³. End = 12.2 mPa. ISIP = 7.9 mPa. #7 - 1,461 - 1,462. Break = 15.5 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 623 kg/m³. End = 10.9 mPa. ISIP = 8.3 mPa. #8 - 1,425 - 1,426. Break = 16.7 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 635 kg/m³. End = 12.6 mPa. ISIP = 8.2 mPa. #9 - 1,391 - 1,392. Break = 14.7 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 622 kg/m³. End = 11.6 mPa. ISIP = 8.0 mPa. #10 - 1,356 - 1,357. Break = 16 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 628 kg/m³. End = 11.5 mPa. ISIP = 8.4 mPa. |
| 14:00 | 18:45 | 4.75 | FRAC | Frac. Job | Frac Continued: #11 - 1,318 - 1,319. Break = 18.4 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 625 kg/m³. End = 11.9 mPa. ISIP = 8.4 mPa. #12 - 1,286 - 1,287. Break = 15.5 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 626 kg/m³. End = 12.2 mPa. ISIP = 8.7 mPa. #13 - 1,251 - 1,252. Break = 17.5 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 618 kg/m³. End = 11.5 mPa. ISIP = 8.0 mPa. #14 - 1,211 - 1,212. Break = 16.4 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 618 kg/m³. End = 12.0 mPa. ISIP = 8.1 mPa. #15 - 1,171 - 1,172. Break = 17.4 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 612 kg/m³. End = 11.7 mPa. ISIP = 7.8 mPa. |
| 18:45 | 19:00 | 0.25 | SMTG | Safety Meeting | Crew change / hand over, Ryan McGregor held a safety meeting and continued the frac. |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 4.0, Report Date: 9/19/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 19:00 | 20:30 | 1.50 | FRAC | Frac. Job | Frac Continued: #16 - 1,131 - 1,132. Break = 17.5 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 4.0 T of sand in, max conc = 612 kg/m³. End = 12.4 mPa. ISIP = 7.8 mPa. #17 - 1,091 - 1,092. Break = 15.1 mPa. Pumped 0.25 m³ of 15% HCL acid, 7.0 m³ Linear Pad, 1.0 m³ of 50 kg/m³ sand scour, 3.5 T of sand in, max conc = 618 kg/m³. End = 12.0 mPa. ISIP = 7.3 mPa. Ran out of sand early |
| 20:30 | 22:00 | 1.50 | PULT | Pull Tubing | POOH with the packer. The packer appeared to be in good conditions. Downloaded the pressure recorders. There was no communication below the packer on any intervals. |
| 22:00 | 22:45 | 0.75 | SRIG | Rig Up/Down | Rig in Halliburton N2 pumper and blow coil dry with 800 SCM of N2. Rigged out Halliburton frac equipment and Boots & Coots coil rig. |
| 22:45 | 23:00 | 0.25 | LOCL | Lock Wellhead & Secure | Shut in and secured the wellhead. Rigged out the Halliburton frac equipment and coil rig. Moved to 100/11-35-002-28W1/00 23:00 |

| Report Fluids Summary | | | | |
|-----------------------|---------------|-----------------|----------------|------------------|
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| Water | | 276.8 | | 276.8 |

| Safety Checks | | | |
|---------------|-----|------|-----|
| Time | Des | Type | Com |
| | | | |

| Logs | | | | |
|------|------|------------|------------|--------|
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| Perforations | | | | |
|--------------|------------|------------|----------------|-------------|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| | | | | |

| Stimulations Summary | | |
|----------------------|---------|---|
| Type Sand Frac | Subtype | Stim/Treat Company Halliburton Energy Services |

| Stimulation Intervals | | | |
|-----------------------|-----------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| 1 | Sand Frac | 5,482.3 | 5,485.6 |
| 2 | Sand Frac | 5,367.5 | 5,370.7 |
| 3 | Sand Frac | 5,242.8 | 5,246.1 |
| 4 | Sand Frac | 5,137.8 | 5,141.1 |
| 5 | Sand Frac | 5,023.0 | 5,026.2 |
| 6 | Sand Frac | 4,911.4 | 4,914.7 |
| 7 | Sand Frac | 4,793.3 | 4,796.6 |
| 8 | Sand Frac | 4,675.2 | 4,678.5 |
| 9 | Sand Frac | 4,563.6 | 4,566.9 |
| 10 | Sand Frac | 4,448.8 | 4,452.1 |
| 11 | Sand Frac | 4,324.1 | 4,327.4 |
| 12 | Sand Frac | 4,219.2 | 4,222.4 |
| 13 | Sand Frac | 4,104.3 | 4,107.6 |
| 14 | Sand Frac | 3,973.1 | 3,976.4 |
| 15 | Sand Frac | 3,841.9 | 3,845.1 |
| 16 | Sand Frac | 3,710.6 | 3,713.9 |
| 17 | Sand Frac | 3,579.4 | 3,582.7 |
| 18 | Sand Frac | | |
| 19 | Sand Frac | | |
| 20 | Sand Frac | | |
| 21 | Sand Frac | | |
| 22 | Sand Frac | | |
| 23 | Sand Frac | | |
| 24 | Sand Frac | | |
| 25 | Sand Frac | | |
| 26 | Sand Frac | | |
| 27 | Sand Frac | | |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 4.0, Report Date: 9/19/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

Stimulation Intervals

| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
|-----------------|-----------|------------|------------|
| 28 | Sand Frac | | |
| 29 | Sand Frac | | |
| 30 | Sand Frac | | |
| 31 | Sand Frac | | |
| 32 | Sand Frac | | |
| 33 | Sand Frac | | |

Tubing Run

| Run Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
|----------|--------------------|------------------|----------------------------|-----------------------|--------------|
|----------|--------------------|------------------|----------------------------|-----------------------|--------------|

Tubing Pulled

| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |
|-----------|--------------------|------------------|----------------------------|-----------------------|--------------|
|-----------|--------------------|------------------|----------------------------|-----------------------|--------------|

Other in Hole Run (Bridge Plugs, etc)

| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) |
|----------|-----|---------|------------|------------|
|----------|-----|---------|------------|------------|

Other in Hole Pulled (Bridge Plugs, etc)

| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) |
|-----------|-----|------------|------------|---------|
|-----------|-----|------------|------------|---------|

Cement

| Start Time | Des | Type | String | Cement Comp |
|------------|-----|------|--------|-------------|
|------------|-----|------|--------|-------------|

Daily Completion and Workover

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 5.0, Report Date: 9/21/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

| Rigs / Coil Tubing Units | | |
|--------------------------|------------------------|-----------------------------|
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

| Job Contacts | | |
|--------------------------------|------------------------------|--------------------------------|
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|--|--|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 221,196.90 | Cum Field Est To Date (Cost) 549,210.15 |
|-----------------------|--|--|--|

| Daily Readings | | | |
|------------------|--------------------------|------------------------|-----------------------|
| Weather Sunny | Temperature (°F) 62.6 | Road Condition Good | Rig Time (hr) 6.00 |

Operations Summary
12:00 Held safety/procedure meeting with crew and issued EOG Job Hazard Analysis/Work Permit. Conducted inspection of the lease and equipment. SICP = 450 kPa. Bled off well to the rig tank. Pressure tested and installed BOP's.

Tallied drifted and ran in to 1123.01 mKb with 0.5 m stick up on jt # 116.
Rigged up and reverse circulated well. Observed circ after 0.72 m3, circulated clean for 1.5 hrs at 570 L/min. Observed sand and a small amount of oil in returns. Lost 4.86 m3 salt water.

Pull and lay down 11 jts with 14 jts left on the trailer. TBG as follows.
Stretch for 7,000 dN tension (0.20 m), KB-TH 3.27 m
94 - 73 mm J-55 9.67 Kg/m TBG (905.06 m)
1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear TBG anchor (0.89 m)
19 - 73 mm J-55 9.67 Kg/m TBG (182.87 m)
1 - API PSN (0.34 m)
1 - 73 mm J-55 9.67 Kg/m tail joint (9.64 m)
1 - 73 mm x 125.7 mm gas separator (3.24 m)

Anchor at 909.82 mKb, PSN at 1006.40 mKb, and BOT at 1019.25 mKb, flowed the well over night to the 400 Bbl tanks

Secured well and SDFN 17:30

Operations Next Report Period
Run pump and rods, rig out.

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 07:00 | 12:00 | 5.00 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 12:00 | 12:30 | 0.50 | SMTG | Safety Meeting | Conducted a walk around inspection of the lease and equip. Held a safety/procedures meeting with the crew and issued EOG Job Hazard Analysis / Work Permit. |
| 12:30 | 13:00 | 0.50 | SRIG | Rig Up/Down | Rigged up the rig and equip to EOG, Falcon Ent, MIED&M, CAODC and OH&S specs. Unloaded Fontanas trailer. |
| 13:00 | 13:30 | 0.50 | FBCK | Flowback Well | Bled off well to the rig tank. (all water no oil) |
| 13:30 | 14:00 | 0.50 | BOPT | Pressure Test BOP's | Function and pressure tested class II BOP's from 1.40 MPa Low to 14.0 MPa high - tested good. |
| 14:00 | 14:30 | 0.50 | BOPI | Install BOP's | Removed bonnet, frac valve and installed BOP's. Rigged in work floor and 73.00 mm tubing equipment. |
| 14:30 | 16:00 | 1.50 | RUTB | Run Tubing | Tallied drifted and ran in to 1123.01 mKb with 0.5 m stick up on jt # 116. |
| 16:00 | 17:30 | 1.50 | CLN | Clean Out Hole | Rigged up and reverse circulated well. Observed circ after 0.72 m3, circulated clean for 1.5 hrs at 570 L/min. Observed sand and a small amount of oil in returns. Lost 4.86 m3 salt water. |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 5.0, Report Date: 9/21/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|---|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 17:30 | 18:00 | 0.50 | PULT | Pull Tubing | Pull and lay down 11 jts with 14 jts left on the trailer. TBG as follows. Stretch for 7,000 dN tension (0.20 m), KB-TH 3.27 m 94 - 73 mm J-55 9.67 Kg/m TBG (905.06 m) 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear TBG anchor (0.89 m) 19 - 73 mm J-55 9.67 Kg/m TBG (182.87 m) 1 - API PSN (0.34 m) 1 - 73 mm J-55 9.67 Kg/m tail joint (9.64 m) 1 - 73 mm x 125.7 mm gas separator (3.24 m) |
| 18:00 | 18:15 | 0.25 | GOP | General Operations | Anchor at 909.82 mKb, PSN at 1006.40 mKb, and BOT at 1019.25 mKb, flowed the well over night to the 400 Bbl tanks |
| 18:15 | 07:15 | 13.00 | LOCL | Lock Wellhead & Secure | Secured the well, cleaned up lease. SDFN 17:30. |

| Report Fluids Summary | | | | |
|-----------------------|---------------|-----------------|----------------|------------------|
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| Water | 138.4 | 88.1 | 138.4 | 88.1 |

| Safety Checks | | | |
|---------------|-----|----------------|--|
| Time | Des | Type | Com |
| 12:00 | | Safety Meeting | 12:00 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a walk around inspection of the lease and equip. Discussed: - Slips trips & falls - proper PPE at all times - muster points - Flammable gas - overhead hazards - pinch points - wind direction - pressure - good communication - proper lifting techniques - communication |

| Logs | | | | |
|------|------|------------|------------|--------|
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| Perforations | | | | |
|--------------|------------|------------|----------------|-------------|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| | | | | |

| Stimulations Summary | | |
|----------------------|---------|---|
| Type Sand Frac | Subtype | Stim/Treat Company Halliburton Energy Services |

| Stimulation Intervals | | | |
|-----------------------|-----------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| 1 | Sand Frac | 5,482.3 | 5,485.6 |
| 2 | Sand Frac | 5,367.5 | 5,370.7 |
| 3 | Sand Frac | 5,242.8 | 5,246.1 |
| 4 | Sand Frac | 5,137.8 | 5,141.1 |
| 5 | Sand Frac | 5,023.0 | 5,026.2 |
| 6 | Sand Frac | 4,911.4 | 4,914.7 |
| 7 | Sand Frac | 4,793.3 | 4,796.6 |
| 8 | Sand Frac | 4,675.2 | 4,678.5 |
| 9 | Sand Frac | 4,563.6 | 4,566.9 |
| 10 | Sand Frac | 4,448.8 | 4,452.1 |
| 11 | Sand Frac | 4,324.1 | 4,327.4 |
| 12 | Sand Frac | 4,219.2 | 4,222.4 |
| 13 | Sand Frac | 4,104.3 | 4,107.6 |
| 14 | Sand Frac | 3,973.1 | 3,976.4 |
| 15 | Sand Frac | 3,841.9 | 3,845.1 |
| 16 | Sand Frac | 3,710.6 | 3,713.9 |
| 17 | Sand Frac | 3,579.4 | 3,582.7 |
| 18 | Sand Frac | | |
| 19 | Sand Frac | | |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 5.0, Report Date: 9/21/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Stimulation Intervals | | | |
|-----------------------|-----------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| 20 | Sand Frac | | |
| 21 | Sand Frac | | |
| 22 | Sand Frac | | |
| 23 | Sand Frac | | |
| 24 | Sand Frac | | |
| 25 | Sand Frac | | |
| 26 | Sand Frac | | |
| 27 | Sand Frac | | |
| 28 | Sand Frac | | |
| 29 | Sand Frac | | |
| 30 | Sand Frac | | |
| 31 | Sand Frac | | |
| 32 | Sand Frac | | |
| 33 | Sand Frac | | |

| Tubing Run | | | | | |
|-------------------|---|-----------------------------|-------------------------------------|-------------------------------|----------------------|
| Run Time 15:00 | Tubing Description Tubing - Production | Set Depth (ftKB) 3,344.0 | String Max Nominal OD (in) 2 7/8 | Weight/Length (lb/ft) 6.50 | String Grade J-55 |

| Tubing Pulled | | | | | |
|---------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |

| Other in Hole Run (Bridge Plugs, etc) | | | | | |
|---------------------------------------|-----|---------|------------|------------|--|
| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) | |

| Other in Hole Pulled (Bridge Plugs, etc) | | | | | |
|--|-----|------------|------------|---------|--|
| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) | |

| Cement | | | | |
|------------|-----|------|--------|-------------|
| Start Time | Des | Type | String | Cement Comp |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 6.0, Report Date: 9/22/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | |
|--|--------------------|
| Primary Job Type Initial Completion | Secondary Job Type |
| Objective | Target Formation |

| Rigs / Coil Tubing Units | | |
|--------------------------|------------------------|-----------------------------|
| Contractor | Rig Number Falcon 4 | Rig Start Date 9/21/2012 |
| Rig Subtype Land | Coil Tubing Size (mm) | Coil Tubing Length (ft) |

| Job Contacts | | |
|--------------------------------|------------------------------|--------------------------------|
| Contact Name Scott Dalziel | Title Completions Foreman | Phone Mobile (204) 522-0075 |
| Contact Name Ryan McGregor | Title Completions Foreman | Phone Mobile (204) 522-0732 |
| Contact Name Peter Kindl | Title Consultant | Phone Mobile (780) 933-7383 |
| Contact Name Richard Thomas | Title Consultant | Phone Mobile (403)-921-5051 |
| Contact Name Lucas Graham | Title Consultant | Phone Mobile (204) 851-5623 |
| Contact Name Ryan McGregor | Title Consultant | Phone Mobile (204) 522-0732 |

| | | | |
|-----------------------|--|---|--|
| AFE Number 12J0056 | Total AFE + Supp Amount (Cost) 531,090.00 | Daily Field Est Total (Cost) 45,348.55 | Cum Field Est To Date (Cost) 594,558.70 |
|-----------------------|--|---|--|

| Daily Readings | | | |
|------------------|--------------------------|------------------------|-----------------------|
| Weather Sunny | Temperature (°F) 59.0 | Road Condition Good | Rig Time (hr) 5.00 |

Operations Summary
7:30 Held safety/procedure meeting with crew and issued EOG Job Hazard Analysis/Work Permit. Conducted inspection of the lease and equipment. SITP = -10 kPa. SICP = 50 kPa.

Removed and secured BOP.Set 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear tubing anchor w/ 7,000 daN over string weight. Installed bonnet, built wellhead.

Rigged in work floor, rod BOP, and rod equipment. Surface tested 1 - BHP # CEFV- 55712, 25x200 RSAC 18-1, 20 Ring PA (tested good).

Torqued rods to spec. Ran rods as follows:
1 - BHP # CEFV- 55712, 25x200 RSAC 18-1, 20 Ring PA
37 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per, D-75 w/ rollers (3/12)
22 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per D-75 (3/12)
68 - 22.2 mm x 7.62 m x 63.5 mm TB scr. 6/per D-75 (7/12)
1 - 22.2 mm x 3.06 m x 63.5 mm TB scr. pony rod, D-75
1 - 22.2 mm x 2.44 m x 63.5 mm TB scr. pony rod, D-75
1 - 38.1 mm x 9.14 m Polish Rod
Rigged out rod equipment.

Seated pump in PSN, secured stuffing box. Filled tubing with 0.10 m3 clean fluid, stoke test pump to 7.0 MPa - tested good. Rigged out service rig and associated equipment. Moved to 100/11-35-2-28W1.
SDFN 12:30

Operations Next Report Period
Well put on production.

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|--|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 07:00 | 07:30 | 0.50 | LOCL | Lock Wellhead & Secure | Well shut in. |
| 07:30 | 08:00 | 0.50 | SMTG | Safety Meeting | 7:30 Held safety/procedure meeting with crew and issued EOG Job Hazard Analysis/Work Permit. Conducted inspection of the lease and equipment. SITP = -10 kPa. SICP = 50 kPa. |
| 08:00 | 08:45 | 0.75 | DTIM | Downtime | Air lines froze on the rig overnight, could not get any air pressure, bypassed the frozen line. |
| 08:45 | 09:30 | 0.75 | GOP | General Operations | Removed and secured BOP.Set 1 - 139.7 mm x 73 mm KDA-L left set 50,000 # shear tubing anchor w/ 7,000 daN over string weight. Installed bonnet, built wellhead. |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

Report # 6.0, Report Date: 9/22/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Time Log | | | | | |
|------------|----------|----------|--------|------------------------|--|
| Start Time | End Time | Dur (hr) | Code 1 | Code 2 | Com |
| 09:30 | 11:00 | 1.50 | RURP | Run Rods & Pump | Rigged in work floor, rod BOP, and rod equipment. Surface tested 1 - BHP # CEFV-55712, 25x200 RSAC 18-1, 20 Ring PA (tested good). Torqued rods to spec. Ran rods as follows: 1 - BHP # CEFV- 55712, 25x200 RSAC 18-1, 20 Ring PA 37 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per, D-75 w/ rollers (3/12) 22 - 19.1 mm x 7.62 m x 63.5 mm NETB scr. 8/per D-75 (3/12) 68 - 22.2 mm x 7.62 m x 63.5 mm TB scr. 6/per D-75 (7/12) 1 - 22.2 mm x 3.06 m x 63.5 mm TB scr. pony rod, D-75 1 - 22.2 mm x 2.44 m x 63.5 mm TB scr. pony rod, D-75 1 - 38.1 mm x 9.14 m Polish Rod Rigged out rod equipment. |
| 11:00 | 11:15 | 0.25 | GOP | General Operations | Tagged PSN, spaced out, installed polish rod seated BHP and secured stuffing box. |
| 11:15 | 11:30 | 0.25 | PTST | Pressure Test | Stroked up with rig to 7.0 MPa - tested good. |
| 11:30 | 12:00 | 0.50 | GOP | General Operations | Hung horse's head on Weatherford Ampscot 320 jack. |
| 12:00 | 12:30 | 0.50 | SRIG | Rig Up/Down | Rigged out service rig and associated equipment. |
| 12:30 | 12:45 | 0.25 | RMOV | Rig Move | Moved Falcon rig 4 over to 100/11-35-2-28w1. |
| 12:45 | 07:45 | 19.00 | LOCL | Lock Wellhead & Secure | Secured the well, cleaned up lease. Ready for production. Left 3.18 m stick up. SDFN 12:30 |

| Report Fluids Summary | | | | |
|-----------------------|---------------|-----------------|----------------|------------------|
| Fluid | To well (bbl) | From well (bbl) | To lease (bbl) | From lease (bbl) |
| Water | | 276.8 | | 276.8 |

| Safety Checks | | | |
|---------------|-----|----------------|---|
| Time | Des | Type | Com |
| 07:30 | | Safety Meeting | 07:30 Held a safety/procedures meeting with the crew and issued a EOG safe work permit. Conducted a walk around inspection of the lease and equip. Discussed: - fatigue - wind direction - pressure - good communication - proper lifting techniques - organization - communication - Slips trips & falls - proper PPE at all times - muster points - Flammable gas - overhead hazards - pinch points - vehicle inspections - winter gear |

| Logs | | | | |
|------|------|------------|------------|--------|
| Time | Type | Top (ftKB) | Btm (ftKB) | Cased? |
| | | | | |

| Perforations | | | | |
|--------------|------------|------------|----------------|-------------|
| Time | Top (ftKB) | Btm (ftKB) | Current Status | Linked Zone |
| | | | | |

| Stimulations Summary | | |
|----------------------|---------|---|
| Type Sand Frac | Subtype | Stim/Treat Company Halliburton Energy Services |

| Stimulation Intervals | | | |
|-----------------------|-----------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| 1 | Sand Frac | 5,482.3 | 5,485.6 |
| 2 | Sand Frac | 5,367.5 | 5,370.7 |
| 3 | Sand Frac | 5,242.8 | 5,246.1 |
| 4 | Sand Frac | 5,137.8 | 5,141.1 |
| 5 | Sand Frac | 5,023.0 | 5,026.2 |
| 6 | Sand Frac | 4,911.4 | 4,914.7 |
| 7 | Sand Frac | 4,793.3 | 4,796.6 |
| 8 | Sand Frac | 4,675.2 | 4,678.5 |
| 9 | Sand Frac | 4,563.6 | 4,566.9 |
| 10 | Sand Frac | 4,448.8 | 4,452.1 |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)
Report # 6.0, Report Date: 9/22/2012

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| Stimulation Intervals | | | |
|-----------------------|-----------|------------|------------|
| Interval Number | Type | Top (ftKB) | Btm (ftKB) |
| 11 | Sand Frac | 4,324.1 | 4,327.4 |
| 12 | Sand Frac | 4,219.2 | 4,222.4 |
| 13 | Sand Frac | 4,104.3 | 4,107.6 |
| 14 | Sand Frac | 3,973.1 | 3,976.4 |
| 15 | Sand Frac | 3,841.9 | 3,845.1 |
| 16 | Sand Frac | 3,710.6 | 3,713.9 |
| 17 | Sand Frac | 3,579.4 | 3,582.7 |
| 18 | Sand Frac | | |
| 19 | Sand Frac | | |
| 20 | Sand Frac | | |
| 21 | Sand Frac | | |
| 22 | Sand Frac | | |
| 23 | Sand Frac | | |
| 24 | Sand Frac | | |
| 25 | Sand Frac | | |
| 26 | Sand Frac | | |
| 27 | Sand Frac | | |
| 28 | Sand Frac | | |
| 29 | Sand Frac | | |
| 30 | Sand Frac | | |
| 31 | Sand Frac | | |
| 32 | Sand Frac | | |
| 33 | Sand Frac | | |

| Tubing Run | | | | | |
|------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Run Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |

| Tubing Pulled | | | | | |
|---------------|--------------------|------------------|----------------------------|-----------------------|--------------|
| Pull Time | Tubing Description | Set Depth (ftKB) | String Max Nominal OD (in) | Weight/Length (lb/ft) | String Grade |

| Other in Hole Run (Bridge Plugs, etc) | | | | | |
|---------------------------------------|-----|---------|------------|------------|--|
| Run Time | Des | OD (in) | Top (ftKB) | Btm (ftKB) | |

| Other in Hole Pulled (Bridge Plugs, etc) | | | | | |
|--|-----|------------|------------|---------|--|
| Pull Time | Des | Top (ftKB) | Btm (ftKB) | OD (in) | |

| Cement | | | | | |
|------------|-----|------|--------|-------------|--|
| Start Time | Des | Type | String | Cement Comp | |



Fluid Tracking Summary

EVERYONE HOME **SAFE** EVERY DAY.

Well Name: **EOG PIERSON HZNTL 15-06-002-28(WPM)**

Report # , Report Date: , AFE # **12J0056**

| | | | | | | | |
|------------------------------|---|-------------------|---------------------------------------|-----------------------------------|--|----------------------------------|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | License # 8001 | Well Configuration Type HORIZONTAL | Ground Elevation (ft) 1,511.98 | Casing Flange Elevation (ft) 1,513.42 | KB-Ground Distance (ft) 14.60 | KB-Casing Flange Distance (ft) 13.16 |
|------------------------------|---|-------------------|---------------------------------------|-----------------------------------|--|----------------------------------|---|

| Start Date | Fluid | Fluid Sub Type | To Lease (bbl) | Source | From Lease (bbl) | Dest | Carrier | Ticket # | Note |
|------------|-------|----------------|----------------|------------------------|------------------|------------------|-----------------------|----------|------------------------|
| 9/6/2012 | Water | | 0.0 | 100/15-6-2-28W1 | 78.6 | 15-9-2-25W1 | Spearing | 855995 | Empty rig tank |
| 9/6/2012 | Water | | 62.9 | 15-21-1-25W1 | 0.0 | 100/15-6-2-28W1 | Spearing | 873661 | Clean salt water in |
| 9/18/2012 | Water | | 440.3 | Gardiner's Fresh Water | | | Jaytan Ltd | | Filled Frac Tanks. |
| 9/18/2012 | Water | | 1,258.0 | Gardiner's Fresh Water | | | Jaytan Ltd | | Filled Frac Tanks. |
| 9/18/2012 | Water | | 1,258.0 | Gardiner's Fresh Water | | | Jaytan Ltd | | Filled Frac Tanks. |
| 9/18/2012 | Water | | | | 44.0 | 15-02-03-21 Batt | Spearing Service L.P. | 877458 | Emptied Flowback Tank. |
| 9/18/2012 | Water | | | | 138.4 | 15-02-03-21 Batt | Spearing Service L.P. | 874312 | Emptied Flowback Tank. |
| 9/19/2012 | Water | | | | 138.4 | 15-2-3-21 Batt | Spearing Service L.P. | 877460 | Emptied Flowback Tank. |
| 9/19/2012 | Water | | | | 138.4 | 15-2-3-21 Batt | Spearing Service L.P. | 870327 | Emptied Flowback Tank. |
| 9/19/2012 | Water | | | | | 15-2-3-21 Batt | Spearing Service L.P. | | Emptied Flowback Tank. |
| 9/21/2012 | Water | | 138.4 | 15-21 Battery | | 100/15-6-2-28W1 | Spearing | 818842 | Water for circulating |
| 9/21/2012 | Water | | | 100/15-6-2-28W1 | 88.1 | 9-26-1-26 | Spearing | 818843 | Emptied 400 Bbl tanks |
| 9/22/2012 | Water | | | 100/15-6-2-28W1 | 138.4 | 9-26-battery | Spearing | 857205 | Emptied 400 Bbl tanks |
| 9/22/2012 | Water | | | 100/15-6-2-28W1 | 138.4 | 9-26 battery | Spearing | 818844 | Emptied rig tank |

Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

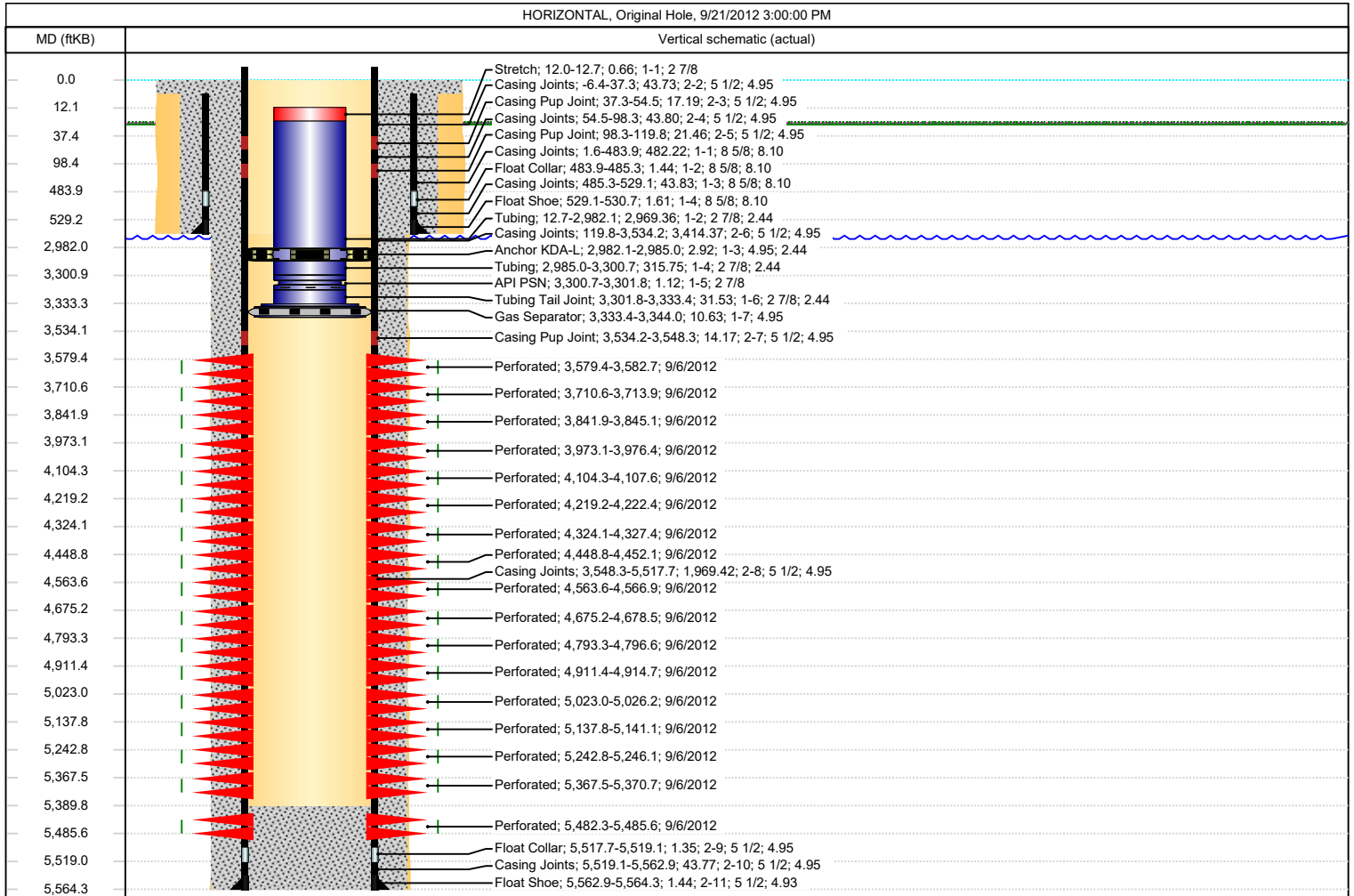
| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

Tubing

| | | | |
|---|-----------------------------|-----------------------|-----------|
| Tubing Description Tubing - Production | Set Depth (ftKB) 3,344.0 | Run Date 9/21/2012 | Pull Date |
|---|-----------------------------|-----------------------|-----------|

Comment

| Jts | Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Top Thread | Len (ft) | Top (ftKB) | Btm (ftKB) | Com |
|-----|-------------------|---------|---------|------------|-------|------------|----------|------------|------------|-----|
| 1 | Stretch | 2 7/8 | | | | | 0.66 | 12.0 | 12.7 | |
| 94 | Tubing | 2 7/8 | 2.44 | 6.50 | J-55 | | 2,969.36 | 12.7 | 2,982.1 | |
| 1 | Anchor KDA-L | 4.9488 | 2.44 | | | | 2.92 | 2,982.1 | 2,985.0 | |
| 10 | Tubing | 2 7/8 | 2.44 | 6.50 | J-55 | | 315.75 | 2,985.0 | 3,300.7 | |
| 1 | API PSN | 2 7/8 | | | | | 1.12 | 3,300.7 | 3,301.8 | |
| 1 | Tubing Tail Joint | 2 7/8 | 2.44 | 6.50 | J-55 | | 31.53 | 3,301.8 | 3,333.4 | |
| 1 | Gas Separator | 4.9488 | | | | | 10.63 | 3,333.4 | 3,344.0 | |



Well Name: EOG PIERSON HZNTL 15-06-002-28(WPM)

| | | | | | |
|--|---|------------------------------|------------------------------|--|---|
| UWI 100/15-06-002-28W1/00 | Surface Legal Location 13C-05-002-28W1 | Field Name Pierson | License # 8001 | Province Manitoba | Well Configuration Type HORIZONTAL |
| Original KB Elevation (ft) 1,526.57 | Ground Elevation (ft) 1,511.98 | KB-Tubing Head Distance (ft) | Spud Date 8/26/2012 19:30 | PBTD (All) (ftKB) Original Hole - 0.0 | Total Depth All (TVD) (ftKB) Original Hole - 3,262.4 |

| | | | |
|------------------------|-----------------------------|-----------------------|-----------|
| Rod Description Rod | Set Depth (ftKB) 3,301.8 | Run Date 9/22/2012 | Pull Date |
| Comment | | | |

Rod String Components

| Jts | Item Des | OD (in) | Len (ft) | Top (ftKB) | Btm (ftKB) | Rod Manufacture Date | Cond Run |
|-----|--|---------|----------|------------|------------|----------------------|----------|
| 1 | Polished rod | 1 1/2 | 29.86 | -10.3 | 19.6 | | New |
| 1 | Scrapered TB pony | 7/8 | 8.01 | 19.6 | 27.6 | | New |
| 1 | Scrapered TB pony | 7/8 | 10.04 | 27.6 | 37.6 | | New |
| 68 | Scrapered TB rods | 0.874 | 1,700.46 | 37.6 | 1,738.1 | | New |
| 22 | Scrapered NETB rods | 0.748 | 550.13 | 1,738.1 | 2,288.2 | | New |
| 37 | Scrapered NETB rods w/ rollers | 0.748 | 995.64 | 2,288.2 | 3,283.8 | | New |
| 1 | CEFV 55712 25-200 RSAC 18-1 20 R.P.A. 184" | | 18.01 | 3,283.8 | 3,301.8 | | New |

Pump Details

| | | | | | |
|-------------------------------|-------------------------------|------------------------------|------------------------------|-----------------------------|--|
| Make | | Model | | Serial Number | |
| Comment | | | | | |
| Pump Bore (in) | API Pump Type | API Barrel Type | API Anchor Type | Seating Assembly Type | |
| Barrel Length (ft) | Nominal Plunger Length (ft) | | Upper Extension Length (ft) | Lower Extension Length (ft) | |
| Plung OD Clr (in) | Seating Assembly Description | | | Seating Assembly Size (in) | |
| API Barrel Material | API Plunger Material | | Gas Anc OD (in) | Gas Anchor Length (ft) | |
| Traveling Valve Ball Material | Traveling Valve Seat Material | Standing Valve Ball Material | Standing Valve Seat Material | | |



EOG WASKADA
Winter 2011
54 Wells

December 21, 2010

Katie McQuoid

All changes and any deviations to this program will be reported to Scot Brodie & Katie McQuoid. Any issues will be documented in Wellview under the Lessons & Problems report.

SITE SPECIFIC INFORMATION:

Please find stick diagram & survey and in Wellview.

GOVERNMENT REGULATIONS:

Required Notifications to the Waskada Petroleum Branch:

- 24 hours advance notice of intent to spud a well.
- 2 hours advance notice of intent to run and cement surface casing or production casing.
- Weekly status reports on all activities up to rig release. Reports are to be emailed in each MONDAY MORNING prior to 9:00 am

Required Submissions to the Waskada Petroleum Branch:

- 1 hard copy of the final drilling tour sheets.
- 2 hard copies of the final directional surveys & plots.
- 1 copy of Pressure test chart to be made at the Petroleum branch in Waskada

Manitoba Industry, Economic Development and Mines

Petroleum Branch
Box 220
23 Railway Avenue
Waskada, MB
R0M 2E0

- Lorne Barsness Office: 204.673.2472 Email: lbarsness@gov.mb.ca
- Twila Jolly Office: 204.673.2472 Email: tjolly@gov.mb.ca
- Petroleum Branch Web Page with Regulations: www.gov.mb.ca/iedm/petroleum

EOG REQUIREMENTS:

- Wellview Reports:
 1. Casing Tallies with all float and centralization equipment.
 2. Material transfer form
 3. Cement report with all information filled in; volumes, returns, type, stroke length, circulation time....
 4. Daily drilling reports completed in full.
 5. BHA details and performance including mud motor details

6. Daily mud with accurate inventories.
7. Lessons and Problems and Problem Time Summary.
8. Daily and End of well costs – completed and within 1% of actual.

- End of Well Submission:

1. Tour Sheets – Confirm they are accurate to EOG daily drilling reports.
2. Deliveries – Casing, mud, cement, fuel tickets
3. Safety Meetings and Incident Reporting – Have all forms completed in full.
4. Send casing report & material transfer report to both Fontana's & Volant.
5. Scan and attach a signed copy of the rig inspection and directional checklist
6. Well files completed and sent in to Calgary within two weeks.
7. Have all files, paperwork, inventories and operations on lease in an orderly fashion prior to supervisor relief arriving on location.

KEY NOTES:

- Drilling Foreman to ensure that all contractors have an approved MSA with EOG.
- **Directional checklist must be filled out prior to drill out**
- Potential water flow in main hole sections.
- Horizontal well. Contact Directional Company to line up proper equipment connections.
- Make sure gas detector is turned on & recording from drill out of surface casing.
- Hole problems possible in build section in the Reston & Upper Ameranth
- Only slick mud motors are to be ran in the BHA.
- Upper zones will need to be identified (Jurassic, Melita, Reston, Ameranth formations) in order to correlate landing point at 90° in the middle of the Spearfish purple sand target.
- Samples to be taken every 5m in the Build section, & every 10m in the Horizontal.
- Gamma while drilling from under the shoe to TD, Manitoba Industry guidelines.
- Monitor Vac truck activity, Cuttings go into the Shale Pit, & Cement into Cement pit.
- Land spread all drilling fluids
- Ensure all contractors stay on EOG access for all operations. NO TRESPASSING!
- Production cement is not to be mobilized until the Calgary office approves the test results.
- All field tickets must match Final Invoice and Wellview Daily Cost Report

WELL DATA:

| | |
|----------------------|---|
| Well Name | EOG WASKADA HZNTL 1-24, 2-25 & 1-25WPM |
| UWI | Refer to Stick |
| Surface | Refer to Stick |
| Zone of Interest | Spearfish |
| Ground Level | Refer to Stick |
| KB Elevation | Refer to Stick |
| Surface Hole | ±150m |
| KOP | ±650m |
| Landing Point | ±900m TVD, ±1050m MD |
| Lateral Section - TD | ±900m TVD, ±1650m MD |
| Directional | Horizontal |
| Licence No. | Refer to Well Licence |
| AFE No. | As listed |
| AFE \$ | ±\$430,000.00 |
| Estimated Days | 5 |
| Well Category | Sweet Oil |
| Sample Point | ±750m |
| Sample Intervals | Take Samples every 5m in Build, & 10m in Lateral |
| Gas Chromatograph | Yes |
| Open Hole Logs | No – Gamma While Drilling Only |
| <i>Comments</i> | This well will be drilled without an intermediate string. Casing will be run and cemented from TD to surface. |

SURFACE HOLE

DRILLING PROCEDURES

1. Rig up Pason Gas Detection, EDR, PVT and Wellview.
2. BHA for 311 mm hole (recommended):
 - 311 mm Bit
 - Bit Sub
 - Mud Motor
 - Crossover sub
 - 10 x 160 mm DC,
 - 114.5 mm DP to Surface.
3. Spud with water and soap sticks to prevent mud rings (refer to Mud Program).
4. Keep pump & RPM at a minimum until at least first 3 collars are buried.
5. Drill 311.1mm surface hole to 150m.
6. Survey min. every 50m, or as required, to maintain deviation at or below 1.0 degree.
7. Wiper trip as required.
8. Circulate and condition hole.

POTENTIAL PROBLEMS

Slight Lost Circulation:

- Reduce pump speed until first few collars are buried.
- Ensure hole is being adequately cleaned to lower risk of packing off.

Gavel and boulders near surface:

- Pump 80+ s/L gel viscous sweeps to assist with hole cleaning.
- If severe, increase viscosity to reduce sloughing.
- Raise visc only as high as required to minimize potential for mud rings.
- Ensure hole is being adequately cleaned to lower risk of packing off.
- Mix LCM pill if lost circulation.
- Be aware of Plugged jets.

Mud rings:

- Minor : Disperse with Detergent
- Major : Disperse with Desco and or SAPP.
- Ensure hole is being adequately cleaned to lower risk of packing off.

SURFACE CASING PROGRAM

1. Verify hole is static prior to running casing
2. Running procedures to be followed:
 - Visually inspect all joints of casing for thread and tube damage.
 - Tally and drift casing with API drift.
 - Inspect the float shoe and float collar for proper operation.

- Strap casing and verify grade, weight, and drift.
3. Run 219.1mm 35.72 kg/m J-55 surface casing bottom up as follows:
 - One (1) float shoe (PDC drillable)
 - One (1) surface casing joint
 - One (1) float collar (PDC drillable)
 - Casing to surface.
 - Threadlock float shoe, first joint of casing, float collar and one joint above.
 - Install centralizers on the 3rd, 5th joint and every third joint to surface.
 - All centralizers to be installed on stop collars.
 4. Run 219.1mm surface casing to 150mKB

Casing Properties:

219.1mm, 35.72kg/m J-55 ST&C

Casing Design Ratings:

| Size (mm) | Weight (kg/m) | Grade | Threads | Collapse (kPa) | Burst (kPa) | Tensile (daN) |
|--------------|------------------|-------|---------|-------------------|----------------|------------------|
| 219.1 | 35.72 | J-55 | ST&C | 9,000 | 20,000 | 108,000 |

Casing Dimensions & Capacity:

| Weight (kg/m) | Grade | ID (mm) | Drift (mm) | OD (coupling) (mm) | Capacity (m ³ /m) | Ann. Vol (m ³ /m) |
|------------------|-------|------------|---------------|--------------------------|---------------------------------|---------------------------------|
| 35.72 | J-55 | 205.7 | 202.5 | 244.5 | 0.03322 | 0.03834 |

Recommended Casing Make-up Torque:

| Weight (kg/m) | Grade | Optimal ft-lb (N-m) |
|------------------|-------|--------------------------------|
| 35.72 | J-55 | 2,440 (3,310) |

SURFACE CEMENTING PROGRAM

1. On bottom break circulation slowly
2. Circulate and work casing on bottom for minimum of 1-2 circulations.
3. Pressure test surface lines (80% internal yield of casing) prior to proceeding with cementing operation.
4. Cement with 40% Excess Minimum. Adjust excess as required for hole conditions.
 - 2.0 m³ fresh water preflush

- 9.05 m³ TSC 1700 + 0.2% AFA-4s + 3% CaCl₂ at 1700kg/ m³
5. Use rubber plug to displace cement.
 6. Slow pump rate near the end of displacement and bump the plug using 3,500-kPa (500-psi) over final pumping pressure.
 - At no time shall pressures exceed 60% of casing burst pressure.
 - Do Not over displace volume calculated to float collar by more than one half (1/2) the calculated volume of the shoe joint
 7. Record cement returns in logbook and on daily drilling reports
 - If floats do not hold,
 - i. Record volume of fluid returned
 - ii. Rebump plug to 1,000-kPa over final circulating pressure
 - iii. Close valve on plug loading head
 - iv. Install a pressure gauge and monitor pressure
 - v. Maintain pressure as required
 - vi. Co-ordinate with Calgary for WOC time
 8. Check cement quality before slacking off landing joint.
 9. Cut casing leaving minimum 6". stick-up above original ground level.
 10. Provide sample of mix water to cementing company for compatibility testing.

*** IF RIGGING ON TO PRESET SURFACE ***

A full EOG rig inspection and well control drill must be done PRIOR to drill out

CASING BOWL AND BOP INSTALLATION

1. Verify stack up heights and ensure casing bowl flange is 6" above original ground level (use spacer nipples if required).
2. Install 219.1mm x 229mm x 14MPA screw on casing bowl.
 - Casing bowl specs must be available at the rig
3. Nipple up BOP stack as per regulations.
 - Pressure test each ram, annular, kill line, lower kelly cock, stabbing valve, inside BOP, all valves in the stack and manifold to 1,400-kPa low and 7,000-kPa high.
 - Each pressure test to be held for 10 minutes.
 - Function test Accumulator (minimum allowable remaining pressure 8400 kPa)
 - No equipment leaks will be tolerated.
 - Repressure test after each repair.
 - All pressure test details must be recorded in drilling logbook and charts to be submitted to Manitoba Innovation Energy & Mines.
4. The drill pipe stabbing valve is to be on the rig floor at all times.

BUILD SECTION

DRILLING PROCEDURES

1. Ensure Mud is properly mixed before drilling out shoe. Refer to drilling fluid program for mud details.

2. BHA for 200 mm hole (recommended):

- 200.0mm Shear SD413E PDC with 10.3mm nozzles
- 1 x 181mm 7/8 Lobe 4.8 Stage 2.12 ABH mud motor **must be slick
- Gamma Tool/ MWD Tool Carrier
- 3 x 165mm NMDC
- Exciter tool & pick up sub
- 66 x 165mm DP*
- 40 x 114.3mm HWDP
- 114.3 mm DP to Surface.

*Do not Drill HWDP past 30° inclination in the build section

3. Drill through float and shoe joint with 4 pails of Amine in the mud system for shale inhibition.
4. Conduct a blow out drill before drilling out the surface casing shoe and record in the tour book.
 - Ensure flow checks, closing times, half pump rate pressures, and hole fill data are recorded in tour sheets.
5. Drill through shoe
 - PVT Must be adjusted and maintained to alarm with $\pm 1.5\text{m}^3$ change in total volume.
 - Cement must be allowed to cure for sufficient time that 4,900kPa compressive strength is achieved. Refer to area specific cement program
6. Maintain mud properties as per service company mud program or as hole conditions warrant.

Vertical Hole

Density: ALAP (Floc Water)
Viscosity: 28-30s/L
Fluid Loss: No Control
pH: 8.5-9.5
YP:4-6 Pa

KOP-Landing Point

Density: 1020-1050kg/m³
Viscosity: 45-55s/L
Fluid Loss: 4-6ml/30min
pH: 8.5-9.5
YP:4-6 Pa

7. Survey minimum every 150m, or as required, to maintain hole deviation at or below 2 degrees.
8. Drill to KOP ($\pm 650\text{m}$) trying to maximize ROP based on formations
9. Survey at every connection with directional tools.
10. Build curve & land well according to directional plan.
11. If well is crossing over another well ensure that DD is running an anti-collision analysis at every survey.
12. Do not allow DL to be greater than 10°
13. Communicate with geologist as to what depth the build section geological markers are.
14. Condition & circulate mud by increasing pump while working pipe.

POTENTIAL PROBLEMS

Swan River Water Flow ($\pm 600\text{m}$):

- Mud up as required
- Increase density if ECD insufficient for a trip.

Difficulty Achieving Required Build Rate:

- Build section can get very ratty through the Reston & Upper Ameranth. The lower Ameranth is much easier to get your build rates through.

Mud rings:

- Minor : Disperse with Detergent
- Major : Disperse with Desco and or SAPP.
- Ensure hole is being adequately cleaned to lower risk of packing off.

LATERAL SECTION

DRILLING PROCEDURES

1. When on bottom (landing point) clean hole with rotation of drill string, pump at maximum rate and rotate top drive to 70 – 80 RPM
2. Maintain mud properties as per service company mud program or as hole conditions warrant.

Lateral Hole

Density: 1020-1050kg/m³

Viscosity: 45-55s/L

Fluid Loss: 4-6ml/30min

pH: 8.5-9.5

YP:5-7 Pa

3. Drill ahead at a maximum rate or as samples will allow.
4. Survey every connection using MWD tool.
5. Follow the target formation as per geologist. Limit DLS to less than more than 2°/30m.
6. It is critical to make sure that Geologists are in close contact with Directional Drillers at all times while drilling lateral
7. Expected TD will be □600m of lateral or as listed on stick.
8. At TD condition hole, pump at 1.6m³/min and reciprocate string 13m for .5 hr, then circulate and increase string RPM to 60 while on bottom for 15 min. Alternate between stroking and rotating the pipe every 15 minutes.
9. Total time circulating should be 3 bottoms up (1.5 hr) or until shakers are clean.
10. Wiper trip hole back to above KOP circulate well until shaker cleans up then POOH.
11. Spot Walnut pill in lateral section
12. Run ±1650m of 139.7mm casing, tag bottom
13. Circulate casing a minimum of 4hrs on bottom before pumping cement job

POTENTIAL PROBLEMS

Packing Off/Hole Cleaning:

- Keep viscosity & YP of mud as low as possible

High Mud Density:

- Run centrifuge and high mesh screens on shaker to control

PRODUCTION CASING PROGRAM

1. Verify hole is static prior to running casing
2. Running procedures to be followed:
 - Visually inspect all joints of casing for thread and tube damage.
 - Tally and drift casing with API drift.

- Inspect the float shoe, float collar and latch down plug receiver for proper operation.
 - Strap casing and verify grade, weight, and drift.
3. Run 139.7mm 23.07 kg/m J-55 surface casing bottom up as follows:
 - One (1) float shoe
 - One (1) production casing joint with a stop collar & 2 Volant Centralizers
 - One (1) float collar
 - Latch Down Receiver
 - Marker Joint one full joint of casing above landing point
 - Install centralizers
 - Two (2) Volant Centralizers and 1 stop collar on every joint of casing back to where build section is at 70° inclination.
 - One (1) Volant centralizers per joint back to KOP.
 - One (1) bowspring centralizer over every 4th joint over coupling back to surface.
 4. Threadlock float shoe, first joint of casing, float collar and one joint above
 5. Wash down last 2 joints and tag bottom
 6. Reciprocate casing 13m and condition hole for 4 hrs minimum or until hole clean while pumping 1.2m³/min. (bring pump rates up slowly at start)

Casing Properties:

139.7mm, 23.07kg/m J-55 LT&C

Casing Design Ratings:

| Size (mm) | Weight (kg/m) | Grade | Threads | Collapse (kPa) | Burst (kPa) | Tensile (daN) |
|--------------|------------------|-------|---------|-------------------|----------------|------------------|
| 139.7 | 23.07 | J-55 | LT&C | 28,000 | 33,000 | 106,000 |

Casing Dimensions & Capacity:

| Weight (kg/m) | Grade | ID (mm) | Drift (mm) | OD (coupling) (mm) | Capacity (m ³ /m) | Ann. Vol (Open Hole) (m ³ /m) | Ann. Vol (Csg) (m ³ /m) |
|------------------|-------|------------|---------------|--------------------------|---------------------------------|--|--|
| 35.72 | J-55 | 125.7 | 122.5 | 153.7 | 0.0124 | 0.0161 | 0.0179 |

Recommended Casing Make-up Torque:

| Weight (kg/m) | Grade | Optimal ft-lb (N-m) |
|------------------|-------|------------------------|
| 23.07 | J-55 | 2390 (3,240) |

PRODUCTION CEMENTING PROGRAM

1. Cement job is not to be pumped until confirmation is received that lab test results are satisfactory.
2. Circulate and work casing on bottom for minimum of 3 hrs or until hole is clean
3. Consult cementers and mud man for mud properties prior to cementing, viscosity of mud should be ± 55 sec/L.
4. Conduct a pre-job safety meeting with all personnel
5. A pump rate of at least $1.0 \text{ m}^3/\text{min}$ or as high as possible while mixing cement slurry
6. A $1.5 \text{ m}^3/\text{min}$ pump rate is recommended for displacement.
7. Work casing string throughout pumping and displacement
8. Pressure test surface lines and equipment to 21,000kPa prior to proceeding with cementing operation.
9. Cement with 60 % excess for fill cement & 40% excess for tail cement. Adjust excess as required for hole conditions.
 - 2.5 m^3 fresh water preflush
 - 5.0 m^3 OptiFlush @ $1200 \text{ kg}/\text{m}^3$
 - 5.0 m^3 Titanium-1400 + 1.0% TA-3, + 2.0% Trican LCM + 0.4% AFA-4s@ $1300 \text{ kg}/\text{m}^3$. Yield: 2.44 m^3
 - Titanium-1400 + 1.0% TA-3, + 2.0% Trican LCM + 0.4% AFA-4s@ $1400 \text{ kg}/\text{m}^3$ from 650m to Surface. Yield: 1.54 m^3
 - 0: 1:0 Class G + 0.4% CFL-2 + 1.0% TA-1 + 0.2% AFA-4s + 0.5% CaCl_2 @ $1900 \text{ kg}/\text{m}^3$ from 1650m to 650m. Yield $0.757 \text{ m}^3/\text{ton}$
 - Displacement Fluid: Fresh Water with granulated sugar in first 3 m^3 & shale inhibitor
10. Use rig pump as a back up to the cementing unit. Do not repair or tear apart during cement job.
11. After tail cement, stop & flush lines to the shaker.
12. Slow pump rate near the end of displacement and bump the plug using 3,500-kPa (500-psi) over final pumping pressure. Pump at $0.5 \text{ m}^3/\text{min}$ to bump.
 - Hold pressure for 5 minutes, bleed back & check that floats are holding
 - At no time shall pressures exceed 60% of casing burst pressure.
13. Record cement returns in logbook and on daily drilling reports
 - If floats do not hold,
 - i. Record volume of fluid returned
 - ii. Rebump plug to 1,000-kPa over final circulating pressure
 - iii. Close valve on plug loading head
 - iv. Install a pressure gauge and monitor pressure
 - v. Maintain pressure as required
 - vi. Co-ordinate with Calgary for WOC time

RIG RELEASE

1. Nipple down BOPs
2. Set casing slips with as cemented string weight
3. Install slips and primary seal.
4. Cut casing to a min of 6" above casing bowl flange.
5. Secure 5.5" casing with casing cap.
6. Release Rig & have trucks on location ready to move after tear out.

SAFETY

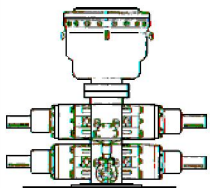
- **EOG Resources HEALTH AND SAFETY USB Key**
Drilling supervisors will be provided with the EOG Resources USB Key. This is to be accessible at all times. Supervisors will ensure EOG Safety Policies, as well as all Statutory Regulations, Provincial Health and Safety Regulations and Environmental Laws are strictly adhered to.
- **SITE ORIENTATION**
All personal on location must sign in at well site supervisors shack. If individual has not been on an EOG site previously an EOG safety orientation pamphlet will given and explained to the individual. The well site supervisor will explain all hazards and policies. The individual will then sign off on form and adhere the sticker to his hard hat. The sign off sheet will be given to the field safety hand to be sent into the Calgary office.
- **RIG INSPECTIONS**
Daily walk around inspections are to be done and documented. Deficiencies are to be highlighted and corrected within a designated time frame. A full rig inspection will be completed prior to spud or drillout if rigging onto preset surface. A copy of this inspection will be scanned and uploaded into Wellview
- **BOP PRESSURE TESTING**
The drilling supervisor will be responsible to ensure BOP stack up is in accordance with statutory regulations. Accumulator checks must be carried out and documented while pressure testing the stack. Accumulator function test form must be filled out.
- **NIGHT MOVES**
No move will be started at night. Moves will be planned such that all loads are on new drilling location before sun down.
- **EMERGENCY RESPONSE PLANNING**
Each drilling supervisor is responsible to have a list of emergency contact numbers. Emergency contact numbers are to be discussed with the Drilling Superintendent.
- **DRUGS AND ALCOHOL**
There will be zero tolerance for use of drugs or alcohol on company property.
- **VENDOR MANAGEMENT**
All vendors used must be green on ISN net. If you are unable to find a vendor who is green contact Drilling Superintendent.
- **SAFETY**
Speeding or unsafe driving will not be tolerated on EOG roads.

POST IN DOGHOUSE

EOG Resources Canada

| DRILLING OUTLINE | | | |
|--------------------|--|----------------------|--------------------|
| | Horizontal Monobore | | |
| UWI: | 100/15-06-002-28W1 | | |
| Surf: | 13C-05-002-28W1 | | |
| Licence #: | | | |
| AFE#: | | | |
| AFE Amt: | | | |
| W.I.%: | EOG 100% | | |
| Rig: | Precision 195 | | |
| Security: | Non Confidential | | |
| Target(s): | Spearfish Oil | | |
| Lahee Class: | 01 | | |
| | | | |
| Contacts: | | | |
| Petroleum | Waskada | (204) 673-2472 | |
| Operator: | Lorne Barsness/Twila Jolly | | |
| | EOG Resources Canada | | |
| | Suite 1300, 700 - 9th Ave SW | | |
| | Calgary, Alberta | Main: | |
| Area Sup: | T2P 3V4 | Fax: | |
| | Cam Turnbull | Office: 204-673-2732 | |
| | | Cell: 403-823-0343 | |
| | | | |
| Area Frmn: | Brent Lesy | Office: 204-673-2732 | |
| | | Cell: 204-522-5490 | |
| | | | |
| | | | |
| Ops Mgr: | Dennis Taylor | Office: 403-297-9190 | |
| | | Cell: 403-990-1818 | |
| | | | |
| | | | |
| Drilling: | Scot Brodie | Office: 403-297-9124 | |
| | | Cell: 403-391-1062 | |
| | | | |
| | | | |
| Reservoir: | Katie McQuoid | Office: 403-297-9189 | |
| | | Cell: 403-850-3185 | |
| | | | |
| | | | |
| Geology: | Allyson Frank | Office: 403-663-8468 | |
| | Emily Gillis | Office: 403 355-6202 | |
| | | Cell: | |
| | | | |
| Environmental: | Jaimie Boden | Office: 403-355-6226 | |
| Safety(Office): | Gordon Goodman | Office: 403-297-9116 | |
| | | Cell: 403-934-0793 | |
| | | | |
| | | | |
| Safety (Field): | Ken Armstrong | Cell: 403-357-6651 | |
| Rig Sup: | Mike Weiler | Cell: 403-510-3254 | |
| | Wade Wondrasek | Cell: 780-837-4594 | |
| | Allen Ingram | Cell: 780-872-1275 | |
| | Rick Higgins | Cell: 780-842-0970 | |
| | Ryan Olney | Cell: 306-421-4299 | |
| | Brad Mikalson | Cell: 403-837-4594 | |
| | Enviromental: | Jim Meggison | Cell: 780-718-3581 |
| | Construction: | Mark Fenske | Cell: 403-743-7758 |
| | Jim Brown | Cell: 403-844-1894 | |
| | | | |
| | Terry Neugebauer | Cell: 306-861-1938 | |
| | Mud: | Prairie Mud | 403-860-4660 |
| Cementing: | Trican | 306-637-2060 | |
| Directional: | Phoenix | 403-860-0034 | |
| Csg/FI. Equip: | Fontana's | 204-748-2261 | |
| Centralizers: | Volant (Chris Flickinger) | 1.866.886.5268 | |
| Solids Control: | Tecumseh | 403-464-0280 | |
| Vac & Water: | Bulldog | 403-990-4600 | |
| Wellsite Trailors: | Winatita | 403-875-8909 | |
| Logging: | NA - Gamma with Directional Tools Only | | |
| HWDP: | Al Lawrence | 403-826-1637 | |
| Medic: | HSE Integrated | 403-710-3439 | |
| Camp: | PTI | 403-998-7003 | |

EOG PIERSON HZNTL 15-6-2-28WPM



219 .1x 229
14 MPa
Screw-On

Elevations

| | | |
|----------|--------|-----------|
| KB Elev: | 464.90 | m (est.) |
| KB - GL: | 4.00 | m |
| GL Elev: | 460.90 | m (surv.) |

Co-ordinates

| | |
|--------------|------------------------|
| Surface: | 51.00m S & 67.00m E of |
| | Bdry of Section 5 |
| Bottom Hole: | 94.91m S & 697.54m W |
| | Bdry of Section 6 |

Casing Depth

Casing size

| | | | |
|---|----------|-----|----------------------|
| Surface Set @ | 0 - 150 | mKB | 219.1 mm, 35.72 kg/m |
| | | | J-55, ST&C, 8Rd |
| Production Set @ | 0 - 1645 | mKB | 139.7 mm, 23.07 kg/m |
| | | | J-55, LT&C, 8Rd |
| Marker joints one joint above landing point | | | |

- Notes: (1) GR with Directional Tools
(2) Install Casing Bowl 15cm above original ground level
(3) Ensure Mouse and Rathole are Cement filled prior to moving off location.
(4) Material transfer to be filled in for movement of all stock.
(5) Gas Detection Req'd

Prognosis

| Formation | | H ₂ S | KB Depth | KB Depth | Plan | Plan |
|---------------------------|-------------|------------------|---------------|---------------|-------------|--------------|
| Tops | Lith | (%) | TVD (m) | MD (m) | Inc. | Azm. |
| <i>Surf Csg Pt.</i> | | 0 | <i>150.00</i> | | | |
| Bash Fish Scales | shale | 0 | 560.45 | | | |
| Swan River | sand | 0 | 611.95 | | | |
| Jurassic top | shale/sand | 0 | 663.45 | | | |
| Upper Melita | sand | 0 | 683.45 | 683.5 | 6.9 | 90.29 |
| Lower Melita | sand/shale | 0 | 753.95 | 756.9 | 24.0 | 90.29 |
| Reston | limestone | 0 | 802.45 | 813.4 | 37.2 | 90.29 |
| Upper Amaranth | anhydrite | 0 | 842.65 | 869.1 | 50.2 | 90.29 |
| Lower Amaranth | silt | 0 | 879.45 | 939.5 | 66.6 | 90.29 |
| Lower Amaranth 'A' Marker | silt | 0 | 883.55 | 950.3 | 69.1 | 90.29 |
| Spearfish Target | silt | 0 | 900.55 | 1024.0 | 85.1 | 90.18 |
| Heel | silt | 0.00 | 901.45 | 1044.6 | 89.9 | 90.14 |
| <i>Toe</i> | <i>silt</i> | <i>0.00</i> | 902.45 | <i>1644.5</i> | <i>89.9</i> | <i>90.14</i> |

KOP =
675
mKB

SURFACE

Hole size: 311.2 mm

| Mud | Cement | Potential Problems |
|--|--|---------------------------|
| Spud with Water | Preflush: Water | Hole Deviation 1 deg. Max |
| | 3.0 m ³ @ 1000kg/m ³ | Gravel/Boulders |
| Density: 1080 - 1120 kg/m ³ | Fill: TSC 1700 | Increase Vis with Gel |
| Visc: 40-60 s/L | 0.2% AFE-4s + 3% CaCl ₂ | Mud rings |
| pH: 9.0 - 9.5 | Yield 0.905m3/t @1700kg/m3 | Use SAPP (if req'd) |
| Fluidloss: No Control | Cement to Surface | Lost Circulation |
| | | Spot LCM Pill |
| | | Ensure LCM on location |

PRODUCTION

Hole size: 200.03mm

| Mud | Cement | Potential Problems |
|----------------------------------|--|---------------------------|
| Drill out with floc & Inhibidril | Preflush: Optiflush | Mud Rings/Bit Balling |
| | 5.0 m ³ @ 1200kg/m ³ | Run sawdust sweep |
| | | Detergent as required |
| Drill out to KOP | Scavenger: Titanium-1400 | |
| Density: ALAP | 5.0 m ³ @ 1300kg/m ³ | Swan River Water Flow |
| Drilling Visc: 28-30 s/L | Yield: 2.033m3/t | Increase density if |
| Fluid Loss: no control | | ECD insufficient for trip |
| pH: 8.5 - 9.5 | Fill: Titanium-1400 | |
| YP: 4 - 6 Pa | (0- 650m) + 2.00% LCM | Maintain vis as required |
| | + 1.00% TA-3 (accelerator) | |
| KOP-Landing Point | + 0.40% AFA-4s | Maintain vis as required |
| Density: 1020 - 1050 kg/m3 | Yield: 1.54m3/t | |
| Drilling Visc: 40-45 s/L | 60% Excess over Guage | Mud Up |
| Fluid Loss: 4-6 mL/30min | Free Water: 0.4% | |
| pH: 8.5 - 9.5 | | |
| YP: 4 - 6 Pa | Fill: 0:1:0 CLASS G | Ratty build section |
| | (650-1650m)+ 1% TA-1 | |
| | + 0.5% TA-2 (accelerator) | |
| Density: 1020 - 1050 kg/m3 | + 0.20% AFA-4s | Packing Off/Hole cleaning |
| Drilling Visc: 45-55 s/L | + 0.50% CLF-2 | Keep Vis/Yield ALAP |
| Fluid Loss: 4-6 mL/30min | | |
| pH: 8.5 - 9.5 | Yield: 0.757 m3/t | High Mud Density |
| YP: 5 - 7 Pa | Fluid Loss: 26mL/30min | Run centrifuge and high |
| | 38% Excess over Guage | mesh screens on shaker |
| Have fluid checked daily | Free Water: 0% | in order to control |
| by mud man and contact | | |
| | Cement to Surface | |

| Smpls: | Type | Interval | Zone |
|-----------|------|----------|----------------------|
| Cuttings: | GOV | 5m | 650 - TD |
| | | | 1 set for Government |

| Logs: | Type | Interval | Note |
|-------|-----------------------------------|----------|------|
| | No open hole logging | | |
| | Gamma with Directional tools Only | | |

New Well Summary - Horizontal

Licence: 8001

Well Name & Location: EOG Pierson HZNTL 15-06-02-28 WPM
(as noted on well licence)
Surface Location: 13C-05-02-28 WPM

Elevations:
Ground Elev: 460.90
Cut or fill: 0.0
Revised GE: 460.90
Rig K.B.: 4.40
Well KB: 465.30

Engineer: Chris Evanyshyn
Phone: 403-348-9003
Push: Jim Raycraft

With: EOG Resources Canada
Email/Fax: pd191eog@gmail.com
Rig Name: PD #191 and Number

SPUD DATE & TIME: Dec/06/2011 @ 09:00 hrs.

IE & M notified? Yes

| | | |
|---|----------------------|--------------------------------|
| SURFACE CASING: | IE & M Notified? Yes | Surface TD: 161.27m |
| Casing run: Dec/06/2011 | # of Joints: 12 | Size: 219.11 mm |
| Weight: 35.716kg/m | Grade: J55 | Landed at: 161.27m |
| Cement: 10t of TSC 1700 & 3.0 % CaCl ₂ | | Returns: 2.0m ³ |
| Plug Down: 18:40 hrs | Cement Co: Trican | Kick-Off Point for Build: 772m |

| | | | |
|--|--------------------------|-----------------------|----------|
| INTERMEDIATE/PRODUCTION CASING: | IE & M Notified? Yes | TD Date: Aug/29/2012m | TD: 1696 |
| Casing run: Aug/30/2012 | # of Joints: 126 | Size: 139.7mm | |
| Weight: 23.067kg/m | Grade: J-55 | Landed at: 1696m | |
| Fill: 19.0t of Titanium 1400 | Tail: 28.0t of 0:1:0 "G" | | |
| Calc. Cement Top: 0 m | Returns: 10.0m | Plug Down: 09:27 hrs | |
| Cement Co: Trican | | | |
| Frac Ports Used: NoFrac Port Type: _____ | # of Frac Ports: _____ | | |

| | | |
|--|-------------------|-----------------------|
| FIRST LEG: | Date: Aug/28/2012 | Kick-Off Point: 1090m |
| TD Date & Time: Aug/29/2012 @ 12:30hrs | TD: 1696m | TVD: 994.38m |
| Bottom Hole Co-ordinates: 792.93 m West of Surface LSD 56.62 m South | | |
| Misc. Details: _____ | | |

| | | | |
|----------------------------|-----------------------|------------------------|----------------------------|
| LINER DETAILS: | IE & M Notified? Yes | LINER HUNG: Yes | LINER CEMENTED: Yes |
| Liner run: ____/____/____ | # of Joints: _____ | Size: _____mm | |
| Weight: _____kg/m | Grade: _____ | Liner Top: _____m MD | Liner Bottom: _____m MD |
| Fill: _____t of _____ | Tail: _____t of _____ | | |
| Calc. Cement Top: _____m | Cement Co: _____ | Plug Down: _____hrs | |
| Packer Depth: 1. _____m MD | 2. _____m MD | | |

| | | |
|---|----------------------|------------------------|
| SECOND LEG: | Date: ____/____/____ | Kick-Off Point: _____m |
| TD Date & Time: ____/____/____ @ _____hrs | TD: _____m | TVD: _____m |
| Bottom Hole Co-ordinates: _____m West of Surface LSD _____m North | | |
| Misc. Details: _____ | | |

| | | | |
|----------------------------|-----------------------|------------------------|----------------------------|
| LINER DETAILS: | IE & M Notified? Yes | LINER HUNG: Yes | LINER CEMENTED: Yes |
| Liner run: ____/____/____ | # of Joints: _____ | Size: _____mm | |
| Weight: _____kg/m | Grade: _____ | Liner Top: _____m MD | Liner Bottom: _____m MD |
| Fill: _____t of _____ | Tail: _____t of _____ | | |
| Calc. Cement Top: _____m | Cement Co: _____ | Plug Down: _____hrs | |
| Packer Depth: 1. _____m MD | 2. _____m MD | | |

Submit Directional Surveys with tours

| | | |
|--|--|--------------|
| Fluid Loss: NO | Volume: _____ | Depth: _____ |
| Displacement Fluid: _____ | Bridge Plug Set at: _____m | |
| Rig Release: Aug/30/2012 @ 13:00hrs | Well Status: Waiting on Service Rig (Waiting on Service Rig or Plugged & Abandoned Dry) | |
| Rig Moving To: EOG Pierson HZNTL 11-35-02-28WPM License # 8916 | | |

Weekly Report:

____/____/____ @ 0800: _____
(Date)

IE & M – Petroleum Branch – Virden (204)748-4260 - Fax (204)748-2208 Waskada (204)673-2472 – Fax (204)673-2767

| |
|---|
| Remarks: _____ |
| Tours _____ Sample _____ Well Check: ____/____/____ |



Enseco Directional Drilling
500, 500 - 4th Avenue SW
Calgary, AB
T2P 2V6

Tel: 1-866-806-0088
www.enseco.ca

Enseco Planning Report

09 February, 2010

EOG RESOURCES

WASKADA

L.S. SEC. TWP. RGE. WM

EOG

Well Licence #

Plan: PROPOSAL



Database: EDM 2003.21 Single User Db
Company: EOG RESOURCES
Project: WASKADA
Site:
Well:
Wellbore: Well Licence #
Design:

Local Co-ordinate Reference:
TVD Reference: KB @ 487.50m
MD Reference: KB @ 487.50m
North Reference: True
Survey Calculation Method: Minimum Curvature

Project WASKADA

Map System: Universal Transverse Mercator
Geo Datum: North American Datum 1983
Map Zone: Zone 14N (102 W to 96 W)

System Datum: Mean Sea Level
 Using geodetic scale factor

Site

Site Position:
From: Map
Position Uncertainty: 0.00 m
Northing: 5,441,148.39m
Easting: 378,370.62m
Slot Radius: mm
Latitude: 49° 6' 40.106 N
Longitude: 100° 39' 59.954 W
Grid Convergence: -1.26 °

Well

Well Position +N/-S 0.00 m Northing: 5,441,148.39 m Latitude: 49° 6' 40.106 N
 +E/-W 0.00 m Easting: 378,370.62 m Longitude: 100° 39' 59.954 W
Position Uncertainty 0.00 m **Wellhead Elevation:** 487.50 m **Ground Level:** 483.50 m

Wellbore Well Licence #

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF200510 | 12/31/2009 | 6.69 | 74.32 | 57,460 |

Design

Audit Notes:

Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.00

| Vertical Section: | Depth From (TVD) (m) | +N/-S (m) | +E/-W (m) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|------------------|
| | 0.00 | 0.00 | 0.00 | 269.88 |

Plan Sections

| MD (m) | Inc (°) | Azi (°) | Vertical Depth | SS (m) | +N/-S (m) | +E/-W (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) | TFO (°) | Target |
|-----------|------------|------------|-------------------|-----------|--------------|--------------|---------------------------|--------------------------|-------------------------|------------|---------------|
| 0.00 | 0.00 | 0.00 | 0.00 | -487.50 | 0.00 | 0.00 | 0.000 | 0.000 | 0.000 | 0.00 | |
| 641.23 | 0.00 | 0.00 | 641.23 | 153.73 | 0.00 | 0.00 | 0.000 | 0.000 | 0.000 | 0.00 | |
| 903.73 | 70.00 | 269.88 | 843.13 | 355.63 | -0.29 | -141.37 | 8.000 | 8.000 | 0.000 | 269.88 | |
| 923.08 | 70.00 | 269.88 | 849.75 | 362.25 | -0.33 | -159.56 | 0.000 | 0.000 | 0.000 | 0.00 | |
| 1,015.39 | 90.00 | 269.88 | 865.70 | 378.20 | -0.51 | -250.00 | 6.500 | 6.500 | 0.000 | 0.00 | PROPOSED HEEL |
| 1,575.65 | 90.00 | 269.88 | 865.70 | 378.20 | -1.66 | -810.26 | 0.000 | 0.000 | 0.000 | 0.00 | PROPOSED TOE |

Database: EDM 2003.21 Single User Db
 Company: EOG RESOURCES
 Project: WASKADA
 Site:
 Well:
 Wellbore: Well Licence #
 Design:

Local Co-ordinate Reference:
 TVD Reference: KB @ 487.50m
 MD Reference: KB @ 487.50m
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

| MD (m) | Inc (°) | Azi (°) | TVD (m) | SS (m) | +N/-S (m) | +E/-W (m) | Vertical Section (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) |
|------------------------------------|------------|------------|------------|-----------|--------------|--------------|----------------------------|---------------------------|--------------------------|-------------------------|
| KICK OFF POINT (8°/30m BUR) | | | | | | | | | | |
| 641.23 | 0.00 | 0.00 | 641.23 | -153.73 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 |
| JURASSIC TOP | | | | | | | | | | |
| 651.50 | 2.74 | 269.88 | 651.50 | -164.00 | 0.00 | -0.25 | 0.25 | 8.000 | 8.00 | 0.00 |
| UPPER MELITA | | | | | | | | | | |
| 652.51 | 3.01 | 269.88 | 652.50 | -165.00 | 0.00 | -0.30 | 0.30 | 8.000 | 8.00 | 0.00 |
| 660.00 | 5.00 | 269.88 | 659.98 | -172.48 | 0.00 | -0.82 | 0.82 | 8.000 | 8.00 | 0.00 |
| 690.00 | 13.00 | 269.88 | 689.58 | -202.08 | -0.01 | -5.51 | 5.51 | 8.000 | 8.00 | 0.00 |
| 720.00 | 21.00 | 269.88 | 718.25 | -230.75 | -0.03 | -14.28 | 14.28 | 8.000 | 8.00 | 0.00 |
| LOWER MELITA | | | | | | | | | | |
| 722.42 | 21.65 | 269.88 | 720.50 | -233.00 | -0.03 | -15.16 | 15.16 | 8.000 | 8.00 | 0.00 |
| 750.00 | 29.00 | 269.88 | 745.41 | -257.91 | -0.06 | -26.95 | 26.95 | 8.000 | 8.00 | 0.00 |
| RESTON | | | | | | | | | | |
| 777.44 | 36.32 | 269.88 | 768.50 | -281.00 | -0.09 | -41.75 | 41.75 | 8.000 | 8.00 | 0.00 |
| 780.00 | 37.00 | 269.88 | 770.55 | -283.05 | -0.09 | -43.28 | 43.28 | 8.000 | 8.00 | 0.00 |
| 810.00 | 45.00 | 269.88 | 793.17 | -305.67 | -0.13 | -62.94 | 62.94 | 8.000 | 8.00 | 0.00 |
| UPPER AMARANTH | | | | | | | | | | |
| 828.23 | 49.87 | 269.88 | 805.50 | -318.00 | -0.16 | -76.36 | 76.36 | 8.000 | 8.00 | 0.00 |
| 840.00 | 53.00 | 269.88 | 812.84 | -325.34 | -0.18 | -85.57 | 85.57 | 8.000 | 8.00 | 0.00 |
| 870.00 | 61.00 | 269.88 | 829.16 | -341.66 | -0.23 | -110.71 | 110.71 | 8.000 | 8.00 | 0.00 |
| 900.00 | 69.00 | 269.88 | 841.63 | -354.33 | -0.28 | -137.88 | 137.88 | 8.000 | 8.00 | 0.00 |
| END OF BUILD TO 70° INC | | | | | | | | | | |
| 903.73 | 70.00 | 269.88 | 843.13 | -355.63 | -0.29 | -141.37 | 141.37 | 8.000 | 8.00 | 0.00 |
| LOWER AMARANTH | | | | | | | | | | |
| 906.56 | 70.00 | 269.88 | 844.10 | -356.60 | -0.30 | -144.03 | 144.03 | 0.000 | 0.00 | 0.00 |
| LOWER AMARANTH A MKR | | | | | | | | | | |
| 920.01 | 70.00 | 269.88 | 848.70 | -361.20 | -0.32 | -156.66 | 156.66 | 0.000 | 0.00 | 0.00 |
| END OF TANGENT (PUMP) | | | | | | | | | | |
| 923.08 | 70.00 | 269.88 | 849.75 | -362.25 | -0.33 | -159.56 | 159.56 | 0.000 | 0.00 | 0.00 |
| 930.00 | 71.50 | 269.88 | 852.03 | -364.53 | -0.34 | -166.09 | 166.09 | 6.500 | 6.50 | 0.00 |
| 960.00 | 78.00 | 269.88 | 859.92 | -372.42 | -0.40 | -195.01 | 195.01 | 6.500 | 6.50 | 0.00 |
| 990.00 | 84.50 | 269.88 | 864.48 | -376.98 | -0.46 | -224.65 | 224.65 | 6.500 | 6.50 | 0.00 |
| TOP PURPLE SAND | | | | | | | | | | |
| 992.39 | 85.02 | 269.88 | 864.70 | -377.20 | -0.47 | -227.02 | 227.02 | 6.500 | 6.50 | 0.00 |
| PROPOSED HEEL | | | | | | | | | | |
| 1,015.39 | 90.00 | 269.88 | 865.70 | -378.20 | -0.51 | -250.00 | 250.00 | 6.500 | 6.50 | 0.00 |
| 1,020.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.52 | -254.61 | 254.61 | 0.000 | 0.00 | 0.00 |
| 1,050.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.58 | -284.61 | 284.61 | 0.000 | 0.00 | 0.00 |
| 1,080.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.64 | -314.61 | 314.61 | 0.000 | 0.00 | 0.00 |
| 1,110.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.71 | -344.61 | 344.61 | 0.000 | 0.00 | 0.00 |
| 1,140.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.77 | -374.61 | 374.61 | 0.000 | 0.00 | 0.00 |
| 1,170.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.83 | -404.61 | 404.61 | 0.000 | 0.00 | 0.00 |
| 1,200.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.89 | -434.61 | 434.61 | 0.000 | 0.00 | 0.00 |
| 1,230.00 | 90.00 | 269.88 | 865.70 | -378.20 | -0.95 | -464.61 | 464.61 | 0.000 | 0.00 | 0.00 |
| 1,260.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.01 | -494.61 | 494.61 | 0.000 | 0.00 | 0.00 |
| 1,290.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.07 | -524.61 | 524.61 | 0.000 | 0.00 | 0.00 |
| 1,320.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.14 | -554.61 | 554.61 | 0.000 | 0.00 | 0.00 |
| 1,350.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.20 | -584.61 | 584.61 | 0.000 | 0.00 | 0.00 |
| 1,380.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.26 | -614.61 | 614.61 | 0.000 | 0.00 | 0.00 |
| 1,410.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.32 | -644.61 | 644.61 | 0.000 | 0.00 | 0.00 |
| 1,440.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.38 | -674.61 | 674.61 | 0.000 | 0.00 | 0.00 |
| 1,470.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.44 | -704.61 | 704.61 | 0.000 | 0.00 | 0.00 |

Database: EDM 2003.21 Single User Db
 Company: EOG RESOURCES
 Project: WASKADA
 Site:
 Well:
 Wellbore: Well Licence #
 Design:

Local Co-ordinate Reference:
 TVD Reference: KB @ 487.50m
 MD Reference: KB @ 487.50m
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

| MD (m) | Inc (°) | Azi (°) | TVD (m) | SS (m) | +N/-S (m) | +E/-W (m) | Vertical Section (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) |
|---------------------|------------|------------|------------|-----------|--------------|--------------|----------------------------|---------------------------|--------------------------|-------------------------|
| 1.500.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.51 | -734.61 | 734.61 | 0.000 | 0.00 | 0.00 |
| 1.530.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.57 | -764.61 | 764.61 | 0.000 | 0.00 | 0.00 |
| 1.560.00 | 90.00 | 269.88 | 865.70 | -378.20 | -1.63 | -794.61 | 794.61 | 0.000 | 0.00 | 0.00 |
| PROPOSED TOE | | | | | | | | | | |
| 1.575.65 | 90.00 | 269.88 | 865.70 | -378.20 | -1.66 | -810.26 | 810.26 | 0.000 | 0.00 | 0.00 |

Formations

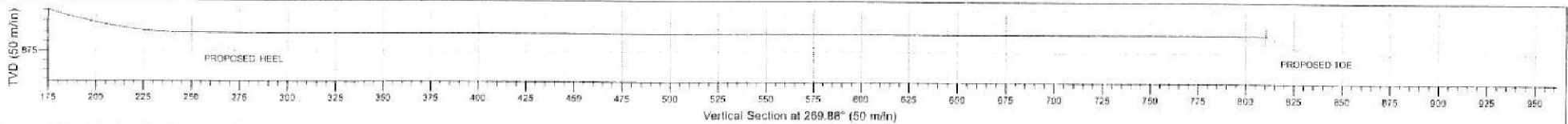
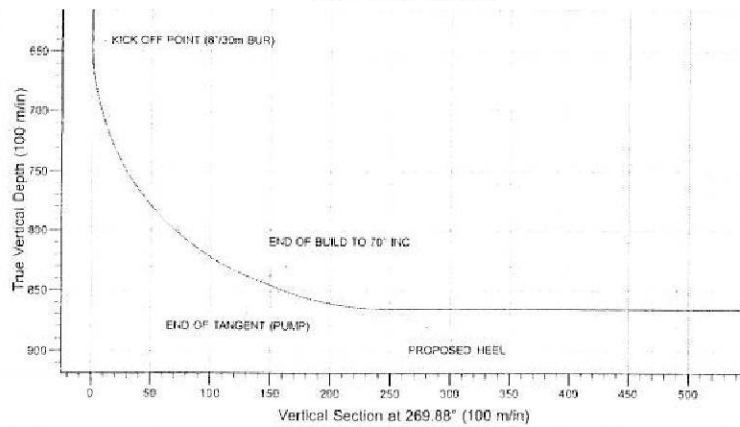
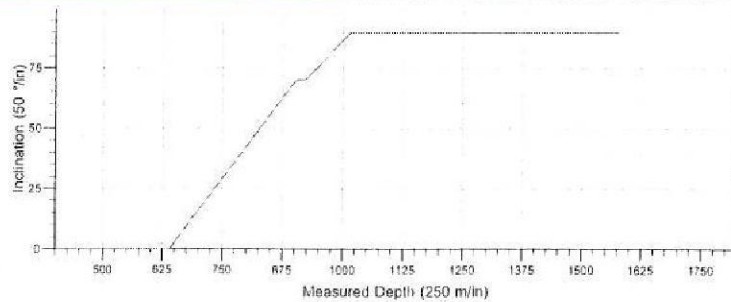
| MD (m) | TVD (m) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------|------------|----------------------|-----------|------------|-------------------------|
| 461.50 | 461.50 | KELD | | 0.00 | |
| 523.50 | 523.50 | BFS | | 0.00 | |
| 542.50 | 542.50 | SKULL CREEK | | 0.00 | |
| 573.50 | 573.50 | SWAN RIVER | | 0.00 | |
| 651.50 | 651.50 | JURASSIC TOP | | 0.00 | |
| 652.51 | 652.50 | UPPER MELITA | | 0.00 | |
| 722.42 | 720.50 | LOWER MELITA | | 0.00 | |
| 777.44 | 768.50 | RESTON | | 0.00 | |
| 828.23 | 805.50 | UPPER AMARANTH | | 0.00 | |
| 906.56 | 844.10 | LOWER AMARANTH | | 0.00 | |
| 920.01 | 848.70 | LOWER AMARANTH A MKR | | 0.00 | |
| 992.39 | 864.70 | TOP PURPLE SAND | | 0.00 | |

Plan Annotations

| MD (m) | TVD (m) | Local Coordinates | | Comment |
|-----------|------------|-------------------|--------------|-----------------------------|
| | | +N/-S (m) | +E/-W (m) | |
| 641.23 | 641.23 | 0.00 | 0.00 | KICK OFF POINT (8°/30m BUR) |
| 903.73 | 843.13 | -0.29 | -141.37 | END OF BUILD TO 70° INC |
| 923.08 | 849.75 | -0.33 | -159.56 | END OF TANGENT (PUMP) |
| 1,015.39 | 865.70 | -0.51 | -250.00 | PROPOSED HEEL |
| 1,575.65 | 865.70 | -1.66 | -810.26 | PROPOSED TOE |

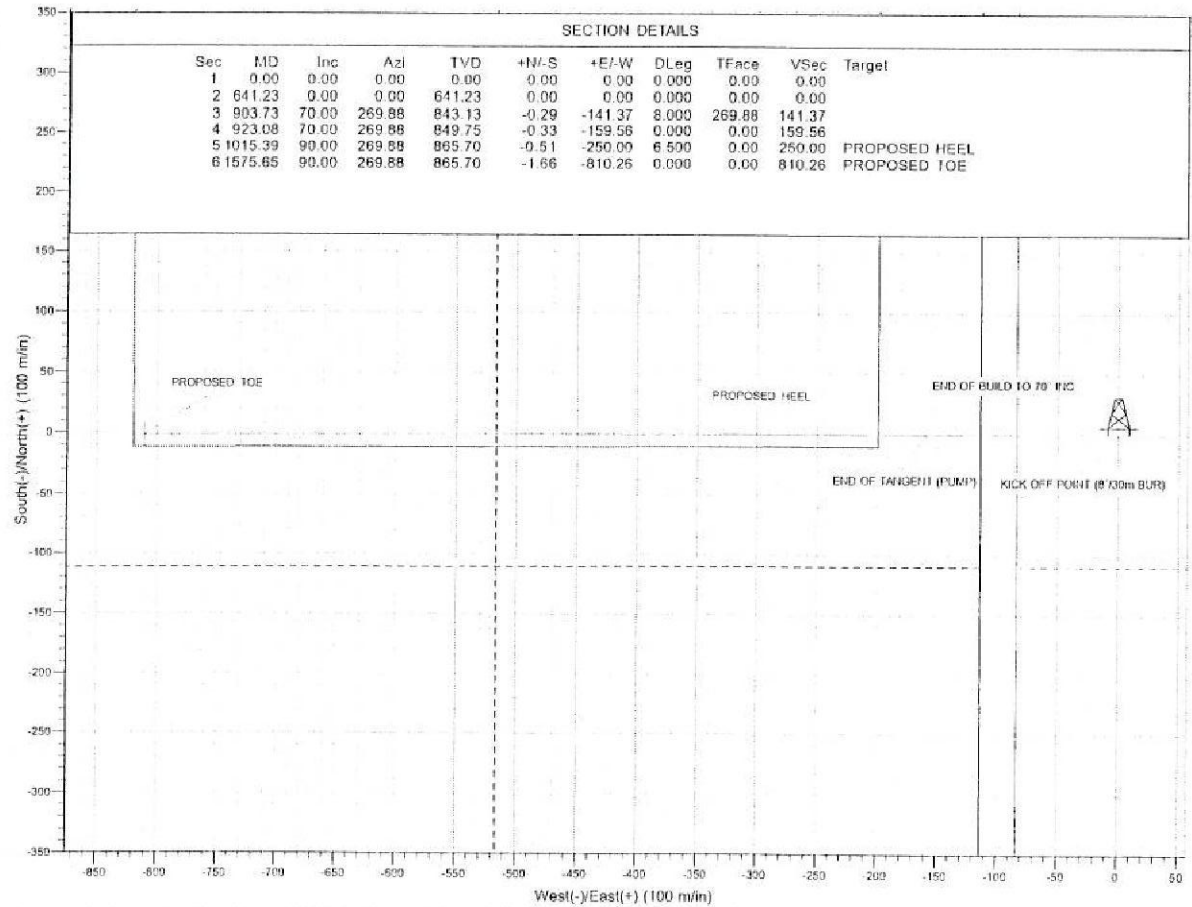
ANNOTATIONS

| TVD | MD | Annotation |
|--------|---------|-----------------------------|
| 641.23 | 641.23 | KICK OFF POINT (8°/30m BUR) |
| 843.13 | 903.73 | END OF BUILD TO 70° INC |
| 849.75 | 923.08 | END OF TANGENT (PUMP) |
| 865.70 | 1015.39 | PROPOSED 100°/10.7 HEEL |
| 865.70 | 1575.65 | PROPOSED 100°/10.7 TOE |



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|---------|-------|--------|--------|-------|---------|-------|--------|--------|---------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | Target |
| 2 | 641.23 | 0.00 | 0.00 | 641.23 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | |
| 3 | 903.73 | 70.00 | 269.88 | 843.13 | -0.29 | -141.37 | 8.000 | 269.88 | 141.37 | |
| 4 | 923.08 | 70.00 | 269.88 | 849.75 | -0.33 | -159.56 | 0.000 | 0.00 | 159.56 | |
| 5 | 1015.39 | 90.00 | 269.88 | 865.70 | -0.51 | -250.09 | 6.500 | 0.00 | 250.00 | PROPOSED HEEL |
| 6 | 1575.65 | 90.00 | 269.88 | 865.70 | -1.66 | -810.26 | 0.000 | 0.00 | 810.26 | PROPOSED TOE |

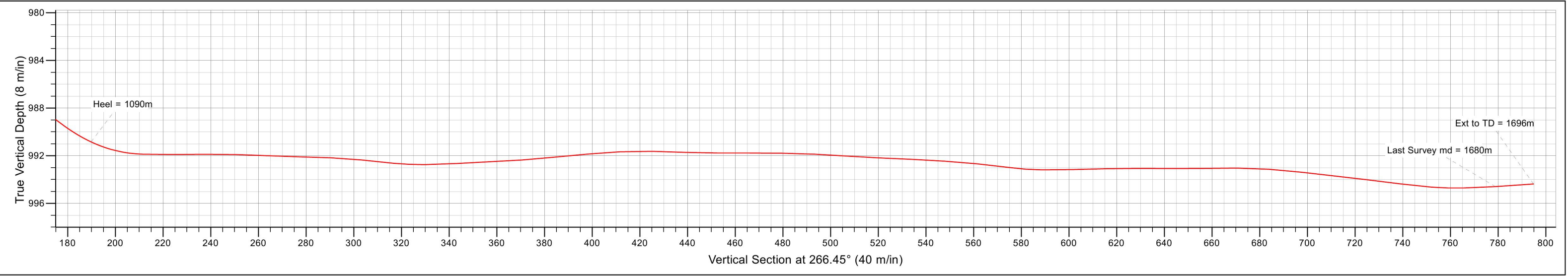
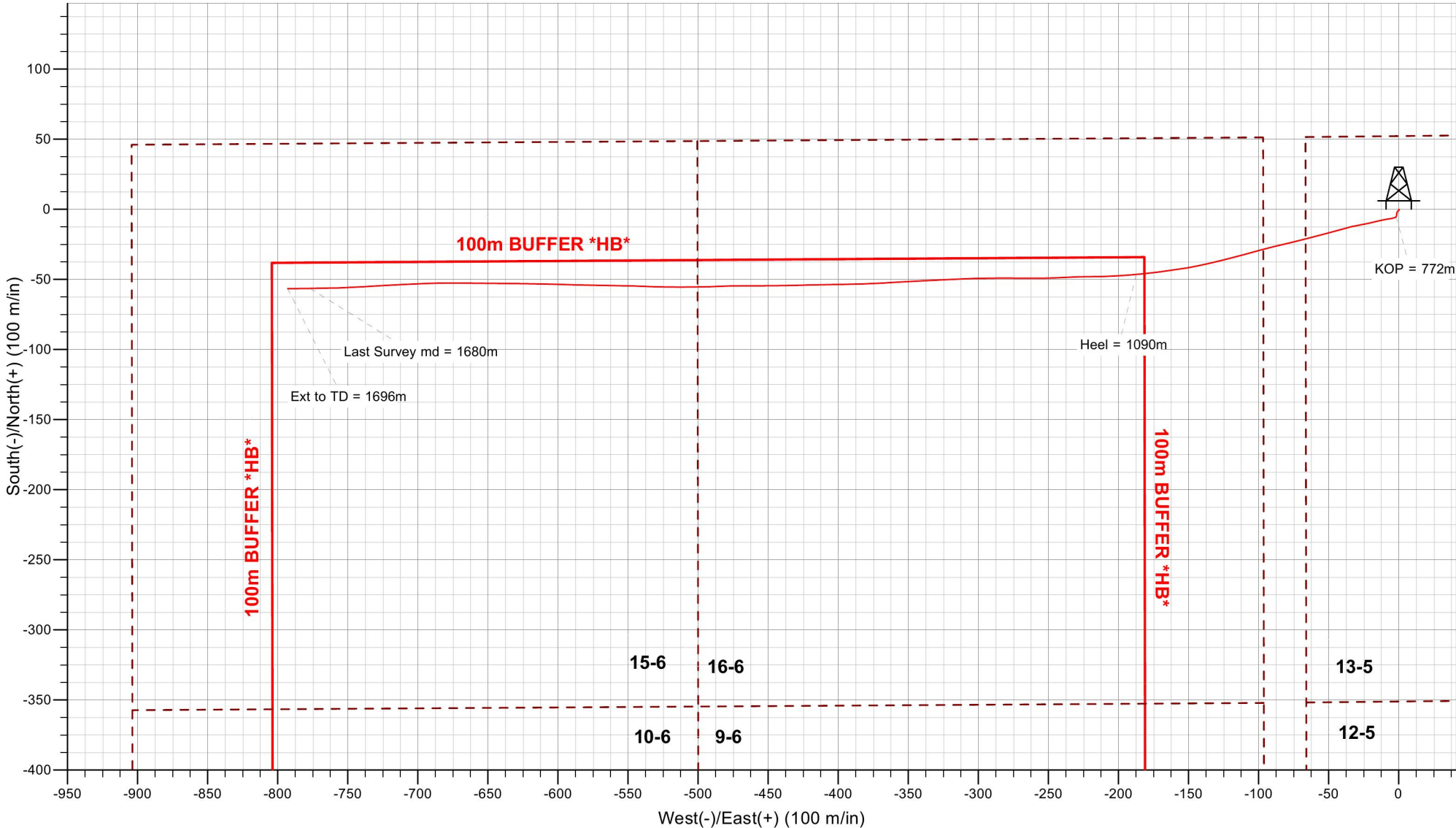
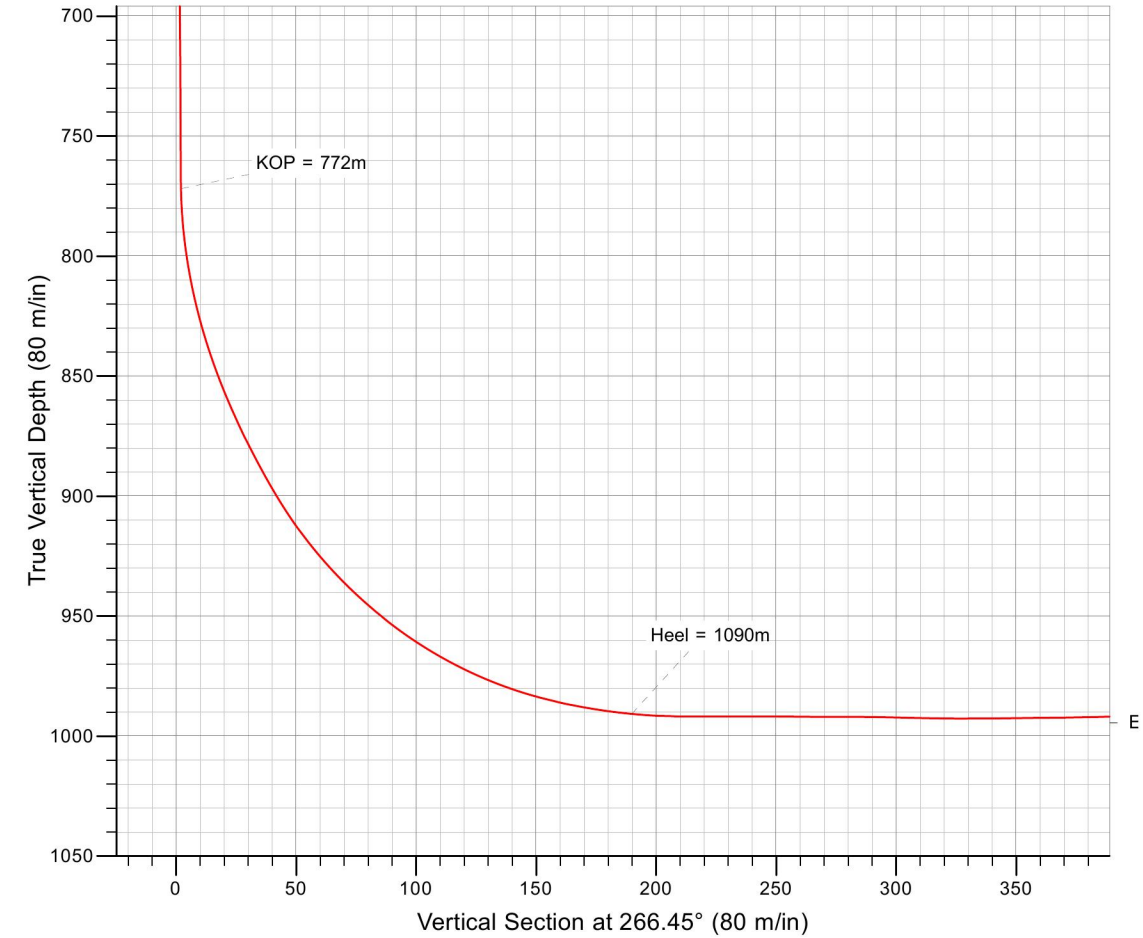




Project: PIERSON
Site: L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM
Well: EOG 100 PIERSON HZ 15-6-2-28
Wellbore: WELL LICENCE # 8001
Design: 125411403R Surveys



| ANNOTATIONS | | | | | | | | | |
|-------------|---------|-------|--------|--------|---------|--------|-----------|------------------------|--|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSect | Departure | Annotation | |
| 771.94 | 772.00 | 1.84 | 213.70 | -5.33 | -1.73 | 2.06 | 7.36 | KOP = 772m | |
| 990.85 | 1090.00 | 84.62 | 264.52 | -46.50 | -187.33 | 189.85 | 197.80 | Heel = 1090m | |
| 994.60 | 1680.00 | 90.80 | 269.50 | -56.48 | -776.94 | 778.94 | 787.72 | Last Survey md = 1680m | |
| 994.38 | 1696.00 | 90.80 | 269.50 | -56.62 | -792.93 | 794.92 | 803.72 | Ext to TD = 1696m | |



| | | | |
|-------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Database: | Canada Compass DB | Local Co-ordinate Reference: | Well EOG 100 PIERSON HZ 15-6-2-28 |
| Company: | EOG RESOURCES | TVD Reference: | Actual KB @ 465.30m |
| Project: | PIERSON | MD Reference: | Actual KB @ 465.30m |
| Site: | L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM | North Reference: | True |
| Well: | EOG 100 PIERSON HZ 15-6-2-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WELL LICENCE # 8001 | | |
| Job Number | 125411403R Surveys | | |

| | | | |
|--------------------|-------------------------------|----------------------|-----------------------------|
| Project | PIERSON | | |
| Map System: | Universal Transverse Mercator | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Zone 14N (102 W to 96 W) | | Using geodetic scale factor |

| | | | |
|------------------------------|------------------------------------|--------------------------|----------------|
| Site | L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM | | |
| Site Position: | | Northing: | 5,440,868.85 m |
| From: | Map | Easting: | 339,144.00 m |
| Position Uncertainty: | 0.00 m | Slot Radius: | 335.28 mm |
| | | Latitude: | 49.10 |
| | | Longitude: | -101.20 |
| | | Grid Convergence: | -1.67 ° |

| | | | |
|-----------------------------|------------------------------|----------------------------|---------------------------------|
| Well | EOG 100 PIERSON HZ 15-6-2-28 | | |
| Well Position | +N/-S | 0.00 m | Northing: 5,441,176.88 m |
| | +E/-W | 0.00 m | Easting: 339,094.58 m |
| Position Uncertainty | 0.00 m | Wellhead Elevation: | m |
| | | Latitude: | 49° 6' 8.554 N |
| | | Longitude: | 101° 12' 16.155 W |
| | | Ground Level: | 460.90 m |

| | | | | | |
|------------------|---------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | WELL LICENCE # 8001 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 2/24/2011 | 7.05 | 74.21 | 57,299 |

| | | | | | |
|--------------------------|-----------------------------|------------------|------------------|----------------------|------|
| Job Number | 125411403R Surveys | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (m) | +N/-S (m) | +E/-W (m) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 266.45 | |

| | | | | | |
|-----------------------|---------------|------------------------------------|------------------|--------------------|--|
| Survey Program | Date | 8/30/2012 | | | |
| From (°) | To (m) | Survey (Wellbore) | Tool Name | Description | |
| 0.00 | 1,696.00 | 125411403R Surveys (WELL LICENCE # | MWD | MWD - Standard | |

| | | | | | | | | | | |
|---------------------------|------------------------|--------------------|---------------------------|-------------------------|------------------|------------------|-----------------------------|----------------------------|---------------------------|--------------------------|
| Survey | | | | | | | | | | |
| Measured Depth (m) | Inclination (°) | Azimuth (°) | Vertical Depth (m) | Subsea Depth (m) | +N/-S (m) | +E/-W (m) | Vertical Section (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) |
| 0.00 | 0.00 | 0.01 | 0.00 | 465.30 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 0.000 |
| 166.00 | 0.29 | 118.80 | 166.00 | 299.30 | -0.20 | 0.37 | -0.35 | 0.052 | 0.052 | 0.000 |
| 171.66 | 0.30 | 118.80 | 171.66 | 293.64 | -0.22 | 0.39 | -0.38 | 0.053 | 0.053 | 0.000 |
| 294.48 | 0.20 | 264.90 | 294.48 | 170.82 | -0.39 | 0.46 | -0.44 | 0.117 | -0.024 | 35.686 |
| 403.59 | 0.40 | 195.50 | 403.59 | 61.71 | -0.77 | 0.17 | -0.12 | 0.104 | 0.055 | -19.082 |
| 512.69 | 0.50 | 280.90 | 512.69 | -47.39 | -1.05 | -0.40 | 0.46 | 0.169 | 0.027 | 23.483 |
| 621.81 | 0.80 | 195.60 | 621.80 | -156.50 | -1.69 | -1.07 | 1.17 | 0.250 | 0.082 | -23.451 |
| 716.89 | 1.80 | 186.40 | 716.85 | -251.55 | -3.82 | -1.42 | 1.65 | 0.321 | 0.316 | -2.903 |
| 756.37 | 1.50 | 194.00 | 756.32 | -291.02 | -4.94 | -1.61 | 1.91 | 0.282 | -0.228 | 5.775 |

| | | | |
|-------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Database: | Canada Compass DB | Local Co-ordinate Reference: | Well EOG 100 PIERSON HZ 15-6-2-28 |
| Company: | EOG RESOURCES | TVD Reference: | Actual KB @ 465.30m |
| Project: | PIERSON | MD Reference: | Actual KB @ 465.30m |
| Site: | L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM | North Reference: | True |
| Well: | EOG 100 PIERSON HZ 15-6-2-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WELL LICENCE # 8001 | | |
| Job Number | 125411403R Surveys | | |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|--------------------|------------------|-----------|-----------|----------------------|---------------------|--------------------|-------------------|
| Measured Depth (m) | Inclination (°) | Azimuth (°) | Vertical Depth (m) | Subsea Depth (m) | +N/-S (m) | +E/-W (m) | Vertical Section (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) |
| 769.49 | 1.50 | 195.40 | 769.43 | -304.13 | -5.27 | -1.70 | 2.02 | 0.084 | 0.000 | 3.201 |
| KOP = 772m | | | | | | | | | | |
| 772.00 | 1.84 | 213.70 | 771.94 | -306.64 | -5.33 | -1.73 | 2.06 | 7.509 | 4.064 | 218.725 |
| 782.62 | 4.10 | 242.80 | 782.55 | -317.25 | -5.65 | -2.16 | 2.51 | 7.480 | 6.384 | 82.203 |
| 795.79 | 7.30 | 251.10 | 795.65 | -330.35 | -6.14 | -3.37 | 3.75 | 7.508 | 7.289 | 18.907 |
| 808.95 | 10.90 | 260.40 | 808.64 | -343.34 | -6.61 | -5.39 | 5.79 | 8.839 | 8.207 | 21.201 |
| 822.09 | 14.00 | 261.00 | 821.47 | -356.17 | -7.07 | -8.19 | 8.61 | 7.084 | 7.078 | 1.370 |
| 835.27 | 16.80 | 258.10 | 834.18 | -368.88 | -7.71 | -11.62 | 12.08 | 6.608 | 6.373 | -6.601 |
| 848.40 | 20.30 | 256.00 | 846.63 | -381.33 | -8.65 | -15.69 | 16.20 | 8.140 | 7.997 | -4.798 |
| 861.57 | 23.10 | 257.40 | 858.86 | -393.56 | -9.77 | -20.43 | 21.00 | 6.486 | 6.378 | 3.189 |
| 874.71 | 25.20 | 258.80 | 870.85 | -405.55 | -10.88 | -25.69 | 26.32 | 4.969 | 4.795 | 3.196 |
| 887.85 | 27.80 | 259.30 | 882.61 | -417.31 | -11.99 | -31.45 | 32.13 | 5.958 | 5.936 | 1.142 |
| 900.99 | 30.30 | 254.40 | 894.10 | -428.80 | -13.45 | -37.65 | 38.41 | 7.875 | 5.708 | -11.187 |
| 914.16 | 32.80 | 254.50 | 905.32 | -440.02 | -15.30 | -44.29 | 45.15 | 5.696 | 5.695 | 0.228 |
| 927.33 | 37.80 | 255.10 | 916.06 | -450.76 | -17.29 | -51.63 | 52.61 | 11.417 | 11.390 | 1.367 |
| 940.50 | 41.40 | 255.00 | 926.21 | -460.91 | -19.45 | -59.74 | 60.83 | 8.202 | 8.200 | -0.228 |
| 953.68 | 45.20 | 255.70 | 935.80 | -470.50 | -21.74 | -68.49 | 69.70 | 8.718 | 8.649 | 1.593 |
| 966.81 | 48.80 | 257.50 | 944.75 | -479.45 | -23.96 | -77.83 | 79.16 | 8.758 | 8.225 | 4.113 |
| 979.98 | 52.70 | 255.80 | 953.09 | -487.79 | -26.32 | -87.75 | 89.21 | 9.376 | 8.884 | -3.872 |
| 993.16 | 57.00 | 255.40 | 960.67 | -495.37 | -29.00 | -98.18 | 99.79 | 9.816 | 9.788 | -0.910 |
| 1,006.33 | 61.20 | 254.70 | 967.43 | -502.13 | -31.91 | -109.10 | 110.87 | 9.664 | 9.567 | -1.595 |
| 1,019.47 | 65.10 | 255.20 | 973.37 | -508.07 | -34.96 | -120.42 | 122.35 | 8.962 | 8.904 | 1.142 |
| 1,032.63 | 69.40 | 256.80 | 978.46 | -513.16 | -37.89 | -132.19 | 134.28 | 10.363 | 9.802 | 3.647 |
| 1,045.79 | 73.60 | 258.70 | 982.63 | -517.33 | -40.53 | -144.38 | 146.62 | 10.418 | 9.574 | 4.331 |
| 1,058.93 | 77.10 | 261.40 | 985.95 | -520.65 | -42.73 | -156.90 | 159.25 | 9.970 | 7.991 | 6.164 |
| 1,072.10 | 80.50 | 262.80 | 988.51 | -523.21 | -44.50 | -169.70 | 172.13 | 8.353 | 7.745 | 3.189 |
| 1,085.28 | 83.40 | 263.80 | 990.36 | -525.06 | -46.02 | -182.66 | 185.16 | 6.975 | 6.601 | 2.276 |
| Heel = 1090m | | | | | | | | | | |
| 1,090.00 | 84.62 | 264.52 | 990.85 | -525.55 | -46.50 | -187.33 | 189.85 | 8.991 | 7.754 | 4.576 |
| 1,098.44 | 86.80 | 265.80 | 991.48 | -526.18 | -47.21 | -195.71 | 198.26 | 8.979 | 7.749 | 4.550 |
| 1,111.57 | 89.70 | 269.00 | 991.88 | -526.58 | -47.81 | -208.82 | 211.38 | 9.864 | 6.626 | 7.312 |
| 1,124.72 | 90.10 | 268.80 | 991.91 | -526.61 | -48.06 | -221.97 | 224.52 | 1.020 | 0.913 | -0.456 |
| 1,137.90 | 90.00 | 267.70 | 991.89 | -526.59 | -48.46 | -235.14 | 237.69 | 2.514 | -0.228 | -2.504 |
| 1,151.07 | 89.80 | 267.60 | 991.92 | -526.62 | -49.00 | -248.30 | 250.86 | 0.509 | -0.456 | -0.228 |
| 1,164.25 | 89.40 | 270.20 | 992.01 | -526.71 | -49.25 | -261.47 | 264.02 | 5.988 | -0.910 | 5.918 |
| 1,177.41 | 89.80 | 270.60 | 992.10 | -526.80 | -49.16 | -274.63 | 277.15 | 1.290 | 0.912 | 0.912 |
| 1,190.55 | 89.50 | 269.70 | 992.18 | -526.88 | -49.13 | -287.77 | 290.27 | 2.166 | -0.685 | -2.055 |
| 1,203.70 | 88.80 | 268.30 | 992.38 | -527.08 | -49.36 | -300.92 | 303.40 | 3.571 | -1.597 | -3.194 |
| 1,216.87 | 88.90 | 267.40 | 992.64 | -527.34 | -49.85 | -314.08 | 316.56 | 2.062 | 0.228 | -2.050 |
| 1,230.05 | 90.10 | 267.70 | 992.76 | -527.46 | -50.42 | -327.24 | 329.74 | 2.815 | 2.731 | 0.683 |
| 1,243.70 | 90.70 | 266.50 | 992.66 | -527.36 | -51.11 | -340.88 | 343.39 | 2.949 | 1.319 | -2.637 |
| 1,257.34 | 90.50 | 267.00 | 992.52 | -527.22 | -51.88 | -354.49 | 357.03 | 1.184 | -0.440 | 1.100 |
| 1,270.98 | 90.70 | 266.90 | 992.37 | -527.07 | -52.60 | -368.11 | 370.67 | 0.492 | 0.440 | -0.220 |

| | | | |
|-------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Database: | Canada Compass DB | Local Co-ordinate Reference: | Well EOG 100 PIERSON HZ 15-6-2-28 |
| Company: | EOG RESOURCES | TVD Reference: | Actual KB @ 465.30m |
| Project: | PIERSON | MD Reference: | Actual KB @ 465.30m |
| Site: | L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM | North Reference: | True |
| Well: | EOG 100 PIERSON HZ 15-6-2-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WELL LICENCE # 8001 | | |
| Job Number | 125411403R Surveys | | |

| Survey | | | | | | | | | | |
|------------------------|-----------------|-------------|--------------------|------------------|-----------|-----------|----------------------|---------------------|--------------------|-------------------|
| Measured Depth (m) | Inclination (°) | Azimuth (°) | Vertical Depth (m) | Subsea Depth (m) | +N/-S (m) | +E/-W (m) | Vertical Section (m) | Dogleg Rate (°/30m) | Build Rate (°/30m) | Turn Rate (°/30m) |
| 1,284.64 | 91.30 | 268.10 | 992.14 | -526.84 | -53.20 | -381.76 | 384.32 | 2.946 | 1.318 | 2.635 |
| 1,298.29 | 90.90 | 269.00 | 991.87 | -526.57 | -53.55 | -395.40 | 397.96 | 2.164 | -0.879 | 1.978 |
| 1,311.94 | 90.70 | 268.70 | 991.68 | -526.38 | -53.82 | -409.05 | 411.60 | 0.792 | -0.440 | -0.659 |
| 1,325.59 | 89.60 | 269.00 | 991.65 | -526.35 | -54.09 | -422.69 | 425.23 | 2.506 | -2.418 | 0.659 |
| 1,339.25 | 89.70 | 268.60 | 991.73 | -526.43 | -54.38 | -436.35 | 438.88 | 0.905 | 0.220 | -0.878 |
| 1,352.90 | 89.90 | 269.90 | 991.78 | -526.48 | -54.56 | -450.00 | 452.52 | 2.891 | 0.440 | 2.857 |
| 1,366.54 | 90.10 | 269.80 | 991.78 | -526.48 | -54.59 | -463.64 | 466.13 | 0.492 | 0.440 | -0.220 |
| 1,380.24 | 89.70 | 268.50 | 991.80 | -526.50 | -54.80 | -477.34 | 479.82 | 2.978 | -0.876 | -2.847 |
| 1,393.89 | 89.60 | 268.00 | 991.89 | -526.59 | -55.21 | -490.98 | 493.46 | 1.121 | -0.220 | -1.099 |
| 1,407.54 | 89.10 | 269.80 | 992.04 | -526.74 | -55.48 | -504.63 | 507.10 | 4.106 | -1.099 | 3.956 |
| 1,421.18 | 89.60 | 270.10 | 992.20 | -526.90 | -55.49 | -518.27 | 520.71 | 1.282 | 1.100 | 0.660 |
| 1,434.84 | 89.40 | 272.20 | 992.31 | -527.01 | -55.21 | -531.92 | 534.32 | 4.633 | -0.439 | 4.612 |
| 1,448.50 | 89.30 | 271.90 | 992.47 | -527.17 | -54.73 | -545.57 | 547.92 | 0.694 | -0.220 | -0.659 |
| 1,462.15 | 88.80 | 270.80 | 992.70 | -527.40 | -54.40 | -559.22 | 561.51 | 2.655 | -1.099 | -2.418 |
| 1,475.80 | 88.60 | 270.70 | 993.01 | -527.71 | -54.23 | -572.86 | 575.12 | 0.491 | -0.440 | -0.220 |
| 1,489.46 | 89.80 | 271.60 | 993.20 | -527.90 | -53.95 | -586.52 | 588.73 | 3.294 | 2.635 | 1.977 |
| 1,503.11 | 90.40 | 271.80 | 993.17 | -527.87 | -53.55 | -600.16 | 602.33 | 1.390 | 1.319 | 0.440 |
| 1,516.75 | 90.20 | 271.00 | 993.10 | -527.80 | -53.21 | -613.80 | 615.91 | 1.814 | -0.440 | -1.760 |
| 1,530.40 | 90.00 | 270.30 | 993.08 | -527.78 | -53.06 | -627.45 | 629.53 | 1.600 | -0.440 | -1.538 |
| 1,544.05 | 89.90 | 270.70 | 993.09 | -527.79 | -52.94 | -641.10 | 643.14 | 0.906 | -0.220 | 0.879 |
| 1,557.71 | 90.20 | 271.10 | 993.08 | -527.78 | -52.72 | -654.75 | 656.76 | 1.098 | 0.659 | 0.878 |
| 1,571.35 | 90.00 | 269.80 | 993.05 | -527.75 | -52.62 | -668.39 | 670.37 | 2.893 | -0.440 | -2.859 |
| 1,585.00 | 89.20 | 269.80 | 993.15 | -527.85 | -52.66 | -682.04 | 684.00 | 1.758 | -1.758 | 0.000 |
| 1,598.64 | 88.70 | 267.20 | 993.40 | -528.10 | -53.02 | -695.67 | 697.62 | 5.822 | -1.100 | -5.718 |
| 1,612.29 | 88.70 | 267.30 | 993.71 | -528.41 | -53.68 | -709.30 | 711.27 | 0.220 | 0.000 | 0.220 |
| 1,625.92 | 88.70 | 266.70 | 994.02 | -528.72 | -54.39 | -722.91 | 724.89 | 1.320 | 0.000 | -1.321 |
| 1,639.56 | 88.40 | 266.70 | 994.36 | -529.06 | -55.17 | -736.53 | 738.53 | 0.660 | -0.660 | 0.000 |
| 1,653.20 | 89.20 | 267.60 | 994.65 | -529.35 | -55.85 | -750.15 | 752.16 | 2.648 | 1.760 | 1.979 |
| 1,666.83 | 90.20 | 268.80 | 994.72 | -529.42 | -56.28 | -763.77 | 765.79 | 3.438 | 2.201 | 2.641 |
| Last Survey md = 1680m | | | | | | | | | | |
| 1,680.00 | 90.80 | 269.50 | 994.60 | -529.30 | -56.48 | -776.94 | 778.94 | 2.100 | 1.367 | 1.595 |
| Ext to TD = 1696m | | | | | | | | | | |
| 1,696.00 | 90.80 | 269.50 | 994.38 | -529.08 | -56.62 | -792.93 | 794.92 | 0.000 | 0.000 | 0.000 |

| Survey Annotations | | | | | |
|--------------------|--------------------|-------------------|-----------|------------------------|--|
| Measured Depth (') | Vertical Depth (') | Local Coordinates | | | |
| | | +N/-S (') | +E/-W (') | Comment | |
| 772.00 | 771.94 | -5.33 | -1.73 | KOP = 772m | |
| 1,090.00 | 990.85 | -46.50 | -187.33 | Heel = 1090m | |
| 1,680.00 | 994.60 | -56.48 | -776.94 | Last Survey md = 1680m | |
| 1,696.00 | 994.38 | -56.62 | -792.93 | Ext to TD = 1696m | |

| | | | |
|-------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Database: | Canada Compass DB | Local Co-ordinate Reference: | Well EOG 100 PIERSON HZ 15-6-2-28 |
| Company: | EOG RESOURCES | TVD Reference: | Actual KB @ 465.30m |
| Project: | PIERSON | MD Reference: | Actual KB @ 465.30m |
| Site: | L.S. 13C SEC. 5 TWP, 2 RGE. 28 WPM | North Reference: | True |
| Well: | EOG 100 PIERSON HZ 15-6-2-28 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | WELL LICENCE # 8001 | | |
| Job Number | 125411403R Surveys | | |

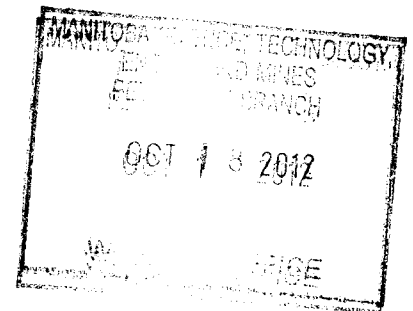
Checked By: _____ Approved By: _____ Date: _____

8001

Geological Report



EOG Pierson HZNTL
100/15-06-02-28WPM
August, 2012
Geological Report



| | |
|--------------------------|-----------------------|
| SURFACE LOCATION: | 13C-05-02-28 WPM |
| WELL LOCATION: | 15C-06-02-28WPM |
| LICENCE NUMBER: | 8001 |
| UWI: | 100/15-06-002-28W1/00 |
| RIG RELEASE DATE: | August 30, 2012 |

Prepared for: Kade Holladay
Prepared by: Kim Heinemann, Steven Gould

Pro Geo Consultants

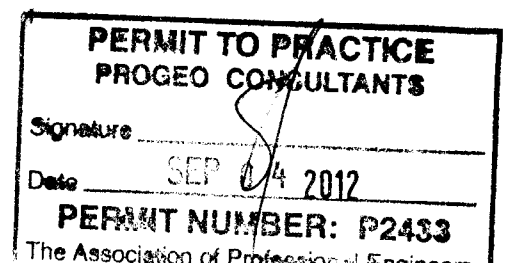


TABLE OF CONTENTS

| | |
|-----------------------------|----|
| GENERAL WELL DATA..... | 2 |
| OPERATIONS | 3 |
| GEOLOGICAL MARKERS..... | 4 |
| DAILY MUD PROPERTIES | 4 |
| BIT RECORD | 5 |
| DAILY DRILLING SUMMARY..... | 5 |
| DIRECTIONAL | 5 |
| SURVEYS..... | 5 |
| SAMPLE DESCRIPTIONS..... | 9 |
| WELL SUMMARY | 17 |
| RESERVOIR INTERVALS | 18 |
| RESERVOIR EVALUATION..... | 20 |

STRIP LOGS IN BACK POCKET

GENERAL WELL DATA

OPERATOR: EOG Resources Canada Inc.

WELL NAME: EOG PIERSON 15-06-02-28WPM

WELL LOCATION: 15C-06-02-28WPM

CO-ORDINATES: 94.91m South of North Boundary, Section 6
697.54m West of East Boundary, Section 6

ELEVATIONS: Ground: 460.90 m Kelly Bushing: 465.30 m

LICENCE NUMBER: 8001 **UWI: 100/15-06-02-28W1/00**

AFE#: 12J0056

PRIMARY OBJECTIVE: Lower Amaranth Oil Production

CONTRACTOR: Precision Drilling Rig #191
Tool Push: Jim Raycraft

SPUD DATE: 12-08-26 19:30 hrs

KICK-OFF POINT: 771.0 m MD

TOTAL DEPTH: 1696.0 m MD **Date and Time:** 12-08-29 12:30 hrs

HOLE SIZE: **Surface:** 311 mm; **Build & Lateral:** 200 mm

SURFACE CASING: Ran 12 joints of 219.1 mm, 35.72 kg/m, J-55, Fedmet casing with guide shoe & float collar. Total length: 161.27m. Landed @ 166.0 m MD.
Drilled out: 12-08-27 0300 hrs.

SAMPLES: One set of five meter samples from 1025 m to 1120 m and one set of ten meter samples from 1120 m to 1696.0 m for Manitoba Energy & Mines.

No sets required for EOG Resources Canada Inc.

OPERATIONS

| DATE | TIME | OPERATION |
|-------------|-------------|---|
| 12-08-27 | 0300 | Finished drilling out preset surface casing plug and start drilling vertical section. Mud motor set at 2.12°. |
| 12-08-27 | 2150 | Mud up at approximately 700 m MD. |
| 12-08-28 | 0000 | Reach Kick Off Point at 745.0 m MD. |
| 12-08-28 | 1555 | Reach sample point at 1025 m MD. |
| 12-08-28 | 1830 | Lateral Heel landed at 1090.0 m MD and begins drilling lateral section. |
| 12-08-29 | 1230 | Reach Total Depth (Toe) at 1696.0 m MD. |

Drilling Supervisor: Chris Evanyshyn / Dave Pledger`

GEOLOGICAL MARKERS

(K.B.: 465.30 m)

| Formation | Measured Depth (m) | True Vertical Depth (m) | Subsea (m) | Isopach (m) |
|--------------------------------|--------------------|-------------------------|------------|-------------|
| Kick Off Point | 771.0 | 771.0 | | |
| Jurassic | 728.4 | 771.1 | -263.1 | 42.8 |
| Upper Melita | 771.2 | 827.8 | -305.8 | 56.6 |
| Lower Melita | 828.6 | 885.4 | -362.5 | 57.6 |
| Reston | 891.0 | 885.4 | -420.1 | 44.1 |
| Upper Amaranth | 945.0 | 929.5 | -464.2 | 37.3 |
| Lower Amaranth | 1005.0 | 966.8 | -501.5 | 4.6 |
| Lower Amaranth 'A' Marker | 1015.0 | 971.4 | -506.1 | 17.0 |
| Lateral Heel | 1090.0 | 990.9 | 525.6 | |
| Green Sand | 1079.8 | 989.6 | -524.3 | 1.2 |
| Blue Sand | 1090.5 | 990.8 | -525.5 | 1.1 |
| Purple Sand | 1113.25 | 991.9 | -526.6 | 1.0 |
| Brown Sand (in) | 1164.0 | 992.0 | -526.7 | |
| Brown Sand (out) | 1250.0 | 992.6 | -527.3 | |
| Extrapolated Total Depth (Toe) | 1696.0 | 994.4 | -529.5 | |

DAILY MUD PROPERTIES

| DATE | TIME | DEPTH (m) | DENSITY | VISCOSITY | WATER LOSS | pH | CHLOR. | CALC. |
|----------------|------|-----------|---------|-----------|------------|----|--------|-------|
| No mud reports | | | | | | | | |

Note: Mud up at approximately 700 m MD, 12-08-27 21:50 hrs.

BIT RECORD

| BIT # | MAKE | TYPE | SIZE (mm) | DEPTH IN (m) | DEPTH OUT (m) | METERS DRILLED | ROTATING HOURS | AVERAGE ROP (m/hr) |
|--------------|-------------|-------------|------------------|---------------------|----------------------|-----------------------|-----------------------|---------------------------|
| 1 | Shear | PDC | 200 | 166.0 | 1696.0 | 1530.0 | 39.8 | 38.4 |
| | | | | | | | | |
| | | | | | | | | |

DAILY DRILLING SUMMARY

| Date | Depth @ 2400 hrs (m) | Daily Progress (m) | Rotating Hours | Rate (m/hr) | Drilling Activity |
|-------------|-----------------------------|---------------------------|-----------------------|--------------------|--------------------------------|
| 12-08-26 | 166 | 0 | 0.0 | 0.0 | Rigging up / Pressure testing |
| 12-08-27 | 772 | 606 | 11.0 | 55.1 | Drilling 200 mm Build Section |
| 12-08-28 | 1273 | 501 | 19.5 | 25.7 | Drilling 200mm Lateral Section |
| 12-08-29 | 1696 | 423 | 9.3 | 45.5 | Total Depth |

TOTAL ROTATING HOURS: 39.8 hrs.**DIRECTIONAL****Directional Company:** Phoenix Technology Services LP**Directional Hands:** **Day:** Jayce Muir **Night:** Jesse Baker**MWD Operators:** **Day:** Drew Beaupre **Night:** Noah Liremann**Motors:** **Vertical:** 2.12° **Build:** 2.12° **Lateral:** 2.12°**SURVEYS**

Phoenix Technology Services LP

Company: EOG Resources Canada Inc.

Well: EOG Pierson HZNTL 15-06-02-28 WPM

Location: 15C-06-02-28 WPM

Reference: True North

KB Elevation: 465.30 m

Ground Elevation: 460.90 m

License: 8001

UWI: 100/15-06-02-28W1/00

Vertical Section Calculated Along Azimuth 266.45°

PRO GEO CONSULTANTS

EOG Pierson HZNTL 100/15-06-02-28 WPM

| | Measured | Incl | Drift | TRUE | Vertical | CLOSURE | CLOSURE | Dogleg | | |
|---------|----------|-------|-----------|----------|----------|---------|---------|----------|-----------|----------|
| | Depth | Angle | Direction | Vertical | N-S | E-W | Section | Distance | Direction | Severity |
| | Meters | Deg | Deg | Depth | Meters | Meters | Meters | Meters | Deg | Deg/30 |
| | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surface | Casing | | | | | | | | | |
| | 166 | 0.29 | 118.8 | 166 | -0.2 | 0.37 | -0.36 | 0.42 | 118.8 | 0.05 |
| | 171.66 | 0.3 | 118.8 | 171.66 | -0.22 | 0.39 | -0.38 | 0.45 | 118.8 | 0.05 |
| | 294.48 | 0.2 | 264.9 | 294.48 | -0.39 | 0.46 | -0.44 | 0.6 | 130.2 | 0.12 |
| | 403.59 | 0.4 | 195.5 | 403.59 | -0.77 | 0.17 | -0.12 | 0.79 | 167.57 | 0.1 |
| | | | | | | | | | | |
| | 512.69 | 0.5 | 280.9 | 512.69 | -1.05 | -0.4 | 0.46 | 1.12 | 200.76 | 0.17 |
| | 621.81 | 0.8 | 195.6 | 621.8 | -1.7 | -1.07 | 1.17 | 2.01 | 212.29 | 0.25 |
| | 716.89 | 1.8 | 186.4 | 716.85 | -3.82 | -1.42 | 1.65 | 4.07 | 200.35 | 0.32 |
| | 756.37 | 1.5 | 194 | 756.32 | -4.94 | -1.61 | 1.91 | 5.19 | 198.07 | 0.28 |
| | 769.49 | 1.5 | 195.4 | 769.43 | -5.27 | -1.7 | 2.02 | 5.53 | 197.86 | 0.08 |
| | | | | | | | | | | |
| KOP | | | | | | | | | | |
| | 772 | 1.84 | 213.7 | 771.94 | -5.33 | -1.73 | 2.06 | 5.61 | 197.96 | 7.49 |
| | 782.62 | 4.1 | 242.8 | 782.55 | -5.65 | -2.16 | 2.51 | 6.05 | 200.93 | 7.49 |
| | 795.79 | 7.3 | 251.1 | 795.65 | -6.13 | -3.37 | 3.74 | 7 | 208.79 | 7.51 |
| | 808.95 | 10.9 | 260.4 | 808.64 | -6.61 | -5.39 | 5.79 | 8.53 | 219.18 | 8.84 |
| | 822.09 | 14 | 261 | 821.47 | -7.07 | -8.19 | 8.61 | 10.82 | 229.18 | 7.08 |
| | | | | | | | | | | |
| | 835.27 | 16.8 | 258.1 | 834.18 | -7.71 | -11.62 | 12.08 | 13.95 | 236.44 | 6.61 |
| | 848.4 | 20.3 | 256 | 846.63 | -8.65 | -15.69 | 16.2 | 17.92 | 241.12 | 8.14 |
| | 861.57 | 23.1 | 257.4 | 858.86 | -9.77 | -20.43 | 21 | 22.65 | 244.44 | 6.49 |
| | 874.71 | 25.2 | 258.8 | 870.85 | -10.88 | -25.69 | 26.32 | 27.9 | 247.05 | 4.97 |
| | 887.85 | 27.8 | 259.3 | 882.61 | -11.99 | -31.45 | 32.13 | 33.66 | 249.13 | 5.96 |
| | | | | | | | | | | |
| | 900.99 | 30.3 | 254.4 | 894.1 | -13.45 | -37.65 | 38.41 | 39.98 | 250.34 | 7.88 |
| | 914.16 | 32.8 | 254.5 | 905.32 | -15.3 | -44.29 | 45.15 | 46.86 | 250.95 | 5.7 |
| | 927.33 | 37.8 | 255.1 | 916.06 | -17.29 | -51.63 | 52.61 | 54.45 | 251.49 | 11.42 |
| | 940.5 | 41.4 | 255 | 926.21 | -19.45 | -59.74 | 60.83 | 62.83 | 251.96 | 8.2 |
| | 953.68 | 45.2 | 255.7 | 935.8 | -21.74 | -68.49 | 69.7 | 71.85 | 252.39 | 8.72 |
| | | | | | | | | | | |
| | 966.81 | 48.8 | 257.5 | 944.75 | -23.96 | -77.83 | 79.16 | 81.43 | 252.89 | 8.76 |
| | 979.98 | 52.7 | 255.8 | 953.09 | -26.32 | -87.75 | 89.21 | 91.61 | 253.3 | 9.38 |
| | 993.16 | 57 | 255.4 | 960.67 | -29 | -98.18 | 99.79 | 102.37 | 253.55 | 9.82 |
| | 1006.33 | 61.2 | 254.7 | 967.43 | -31.91 | -109.1 | 110.86 | 113.67 | 253.69 | 9.66 |
| | 1019.47 | 65.1 | 255.2 | 973.37 | -34.96 | -120.42 | 122.35 | 125.39 | 253.81 | 8.96 |
| | | | | | | | | | | |

EOG Pierson HZNTL 100/15-06-02-28 WPM

| | | | | | | | | | | |
|---------|---------|-------|--------|--------|--------|---------|--------|--------|--------|-------|
| | 1032.63 | 69.4 | 256.8 | 978.46 | -37.89 | -132.19 | 134.28 | 137.51 | 254.01 | 10.36 |
| | 1045.79 | 73.6 | 258.7 | 982.63 | -40.53 | -144.38 | 146.62 | 149.96 | 254.32 | 10.42 |
| | 1058.93 | 77.1 | 261.4 | 985.95 | -42.73 | -156.9 | 159.25 | 162.62 | 254.77 | 9.97 |
| | 1072.1 | 80.5 | 262.8 | 988.51 | -44.5 | -169.7 | 172.13 | 175.43 | 255.31 | 8.35 |
| | 1085.28 | 83.4 | 263.8 | 990.36 | -46.02 | -182.66 | 185.15 | 188.36 | 255.86 | 6.97 |
| | | | | | | | | | | |
| Lateral | Heel | | | | | | | | | |
| | 1090 | 84.62 | 264.52 | 990.85 | -46.5 | -187.33 | 189.84 | 193.01 | 256.06 | 8.98 |
| | 1098.44 | 86.8 | 265.8 | 991.48 | -47.21 | -195.71 | 198.26 | 201.32 | 256.44 | 8.98 |
| | 1111.57 | 89.7 | 269 | 991.88 | -47.81 | -208.82 | 211.38 | 214.22 | 257.11 | 9.86 |
| | 1124.72 | 90.1 | 268.8 | 991.91 | -48.06 | -221.97 | 224.52 | 227.11 | 257.78 | 1.02 |
| | 1137.9 | 90 | 267.7 | 991.89 | -48.46 | -235.14 | 237.69 | 240.08 | 258.35 | 2.51 |
| | | | | | | | | | | |
| | 1151.07 | 89.8 | 267.6 | 991.92 | -49 | -248.3 | 250.86 | 253.09 | 258.84 | 0.51 |
| | 1164.25 | 89.4 | 270.2 | 992.01 | -49.25 | -261.47 | 264.02 | 266.07 | 259.33 | 5.99 |
| | 1177.41 | 89.8 | 270.6 | 992.1 | -49.16 | -274.63 | 277.15 | 279 | 259.85 | 1.29 |
| | 1190.55 | 89.5 | 269.7 | 992.18 | -49.13 | -287.77 | 290.26 | 291.94 | 260.31 | 2.17 |
| | 1203.7 | 88.8 | 268.3 | 992.38 | -49.36 | -300.92 | 303.4 | 304.94 | 260.69 | 3.57 |
| | | | | | | | | | | |
| | 1216.87 | 88.9 | 267.4 | 992.64 | -49.85 | -314.08 | 316.56 | 318.01 | 260.98 | 2.06 |
| | 1230.05 | 90.1 | 267.7 | 992.76 | -50.41 | -327.24 | 329.74 | 331.1 | 261.24 | 2.82 |
| | 1243.7 | 90.7 | 266.5 | 992.66 | -51.11 | -340.88 | 343.39 | 344.69 | 261.47 | 2.95 |
| | 1257.34 | 90.5 | 267 | 992.52 | -51.88 | -354.49 | 357.03 | 358.27 | 261.67 | 1.18 |
| | 1270.98 | 90.7 | 266.9 | 992.37 | -52.6 | -368.11 | 370.66 | 371.85 | 261.87 | 0.49 |
| | | | | | | | | | | |
| | 1284.64 | 91.3 | 268.1 | 992.14 | -53.2 | -381.76 | 384.32 | 385.45 | 262.07 | 2.95 |
| | 1298.29 | 90.9 | 269 | 991.87 | -53.55 | -395.4 | 397.96 | 399.01 | 262.29 | 2.16 |
| | 1311.94 | 90.7 | 268.7 | 991.68 | -53.82 | -409.05 | 411.59 | 412.57 | 262.5 | 0.79 |
| | 1325.59 | 89.6 | 269 | 991.65 | -54.09 | -422.69 | 425.23 | 426.14 | 262.71 | 2.51 |
| | 1339.25 | 89.7 | 268.6 | 991.73 | -54.38 | -436.35 | 438.88 | 439.73 | 262.9 | 0.91 |
| | | | | | | | | | | |
| | 1352.9 | 89.9 | 269.9 | 991.78 | -54.56 | -450 | 452.51 | 453.29 | 263.09 | 2.89 |
| | 1366.54 | 90.1 | 269.8 | 991.78 | -54.59 | -463.64 | 466.13 | 466.84 | 263.28 | 0.49 |
| | 1380.24 | 89.7 | 268.5 | 991.8 | -54.8 | -477.34 | 479.81 | 480.47 | 263.45 | 2.98 |
| | 1393.89 | 89.6 | 268 | 991.89 | -55.21 | -490.98 | 493.46 | 494.08 | 263.58 | 1.12 |
| | 1407.54 | 89.1 | 269.8 | 992.04 | -55.48 | -504.63 | 507.09 | 507.67 | 263.73 | 4.11 |
| | | | | | | | | | | |
| | 1421.18 | 89.6 | 270.1 | 992.2 | -55.49 | -518.27 | 520.71 | 521.23 | 263.89 | 1.28 |
| | 1434.84 | 89.4 | 272.2 | 992.31 | -55.21 | -531.92 | 534.32 | 534.78 | 264.07 | 4.63 |
| | 1448.5 | 89.3 | 271.9 | 992.47 | -54.72 | -545.57 | 547.91 | 548.31 | 264.27 | 0.69 |
| | 1462.15 | 88.8 | 270.8 | 992.7 | -54.4 | -559.22 | 561.51 | 561.86 | 264.44 | 2.66 |
| | 1475.8 | 88.6 | 270.7 | 993.01 | -54.22 | -572.86 | 575.12 | 575.42 | 264.59 | 0.49 |

EOG Pierson HZNTL 100/15-06-02-28 WPM

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|---------------|---------|------|-------|--------|--------|---------|--------|--------|--------|------|
| | | | | | | | | | | |
| | 1489.46 | 89.8 | 271.6 | 993.2 | -53.95 | -586.52 | 588.73 | 588.99 | 264.74 | 3.29 |
| | 1503.11 | 90.4 | 271.8 | 993.17 | -53.55 | -600.16 | 602.32 | 602.54 | 264.9 | 1.39 |
| | 1516.75 | 90.2 | 271 | 993.1 | -53.21 | -613.8 | 615.91 | 616.1 | 265.05 | 1.81 |
| | 1530.4 | 90 | 270.3 | 993.08 | -53.06 | -627.45 | 629.53 | 629.68 | 265.17 | 1.6 |
| | 1544.05 | 89.9 | 270.7 | 993.09 | -52.94 | -641.09 | 643.14 | 643.28 | 265.28 | 0.91 |
| | | | | | | | | | | |
| | 1557.71 | 90.2 | 271.1 | 993.08 | -52.72 | -654.75 | 656.76 | 656.87 | 265.4 | 1.1 |
| | 1571.35 | 90 | 269.8 | 993.05 | -52.62 | -668.39 | 670.37 | 670.46 | 265.5 | 2.89 |
| | 1585 | 89.2 | 269.8 | 993.15 | -52.66 | -682.04 | 683.99 | 684.07 | 265.58 | 1.76 |
| | 1598.64 | 88.7 | 267.2 | 993.4 | -53.02 | -695.67 | 697.62 | 697.69 | 265.64 | 5.82 |
| | 1612.29 | 88.7 | 267.3 | 993.71 | -53.68 | -709.3 | 711.27 | 711.33 | 265.67 | 0.22 |
| | | | | | | | | | | |
| | 1625.92 | 88.7 | 266.7 | 994.02 | -54.39 | -722.91 | 724.89 | 724.96 | 265.7 | 1.32 |
| | 1639.56 | 88.4 | 266.7 | 994.36 | -55.17 | -736.53 | 738.53 | 738.59 | 265.72 | 0.66 |
| | 1653.2 | 89.2 | 267.6 | 994.65 | -55.85 | -750.14 | 752.16 | 752.22 | 265.74 | 2.65 |
| | 1666.83 | 90.2 | 268.8 | 994.72 | -56.28 | -763.77 | 765.79 | 765.84 | 265.79 | 3.44 |
| | 1680 | 90.8 | 269.5 | 994.61 | -56.48 | -776.94 | 778.94 | 778.99 | 265.84 | 2.1 |
| | | | | | | | | | | |
| Extrapolation | to | TD | | | | | | | | |
| | 1696 | 90.8 | 269.5 | 994.38 | -56.62 | -792.93 | 794.92 | 794.95 | 265.92 | 0 |

SAMPLE DESCRIPTIONS

BUILD SECTION

| | | |
|---|------|---|
| 1,020.00 to 1,030.00 (10.00) | 100% | SILTSTONE light to pale orange, tan to light brown, red brown in part, very fine to coarse silt locally grading to very fine grain sandstone, subrounded, poorly to moderately sorted, well consolidated, anhydritic in part with common anhydrite inclusions & nodules, common dolomitic & anhydritic cement, shaly in part, occasional loose quartz grains, tight to very rare very poor intergranular porosity, rare very spotty light to buff brown oil staining associated with dull amber to trace bright yellow fluorescence (<3%), slow yellow white cut; occasional walnut shells. |
| 1,030.00 to 1,050.00 (20.00) | 100% | SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, slightly sandy, grading to very fine grain sandstone in part, subrounded, poorly to moderately sorted, well consolidated, anhydritic with common anhydrite inclusions & nodules, common dolomitic & anhydritic cement, shaly in part, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (<3%), no visible cut. |
| 1,050.00 to 1,065.00 (15.00) | 100% | SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, grading to very fine grain sandstone in part, subrounded, poorly to moderately sorted, well consolidated, anhydritic with common anhydrite inclusions & nodules, common dolomitic & anhydritic cement, shaly in part, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (3%), faint milky white cut. |
| 1,065.00 to 1,075.00 (10.00) | 100% | SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, grading to very fine grain sandstone in part, subrounded, poorly to moderately sorted, well consolidated, anhydritic with common anhydrite inclusions & nodules, common dolomitic & anhydritic cement, shaly in part, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (3-5%), very slow milky white cut. |
| Green Sand: 1,079.89 MD, 989.60 TVD, -524.30 SSL | | |
| 1,075.00 to 1,095.00 (20.00) | 100% | SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, slightly sandy, grading to very fine grain sandstone in part, subrounded, poorly to moderately sorted, well consolidated, anhydritic with common anhydrite inclusions & nodules, common dolomitic & anhydritic cement, shaly in part, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10%), very slow milky white cut. |

LATERAL HEEL @ 1090.0m MD; 990.85m TVD; -525.55m SSL;

46.50m South, 187.33 West, 189.84m VS

Extrapolated Inc: 84.6 degrees

Extrapolated Azi: 264.5 degrees

LATERAL DESCRIPTIONS

- 1,095.00 to 1,105.00 100% **SILTSTONE**
(10.00)
light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow-mod milky yellow white cut.
- Purple Sand: 1,113.00 MD, 991.88 TVD, -526.58 SSL**
- 1,105.00 to 1,115.00 100% **SILTSTONE**
(10.00)
light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, common unconsolidated quartzose sandstone, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate milky yellow white cut, rare visible oil in wash.
- 1,115.00 to 1,125.00 100% **SILTSTONE**
(10.00)
light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, abundant unconsolidated quartzose sandstone grains (20%), occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow-mod milky yellow white cut, rare visible oil in wash.
- 1,125.00 to 1,140.00 100% **SILTSTONE**
(15.00)
light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, abundant unconsolidated quartzose sandstone grains (15%), occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow-mod milky yellow white cut, rare visible oil in wash.
- 1,140.00 to 1,160.00 100% **SANDSTONE**
(20.00)
light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, abundant unconsolidated quartzose sandstone grains (20%), occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate milky yellowish white cut, rare visible oil in wash.

Brown Sand (in): 1,164.00 MD, 992.01 TVD, -526.71 SSL

| | | |
|---------------------------------|------|---|
| 1,160.00 to 1,180.00 (20.00) | 100% | SANDSTONE clear, quartzose, upper fine to upper medium, subround to round, moderate to well sorted, unconsolidated, inferred good intgr porosity, no shows; SILTSTONE(40%) light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate milky yellowish white cut, rare visible oil in wash. |
| 1,180.00 to 1,200.00 (20.00) | 100% | SANDSTONE clear, quartzose, upper fine to upper medium, subround to round, moderate to well sorted, unconsolidated, inferred good intgr porosity, no shows; SILTSTONE(40%) light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate milky yellowish white cut, rare visible oil in wash. |
| 1,200.00 to 1,220.00 (20.00) | 100% | SANDSTONE clear, quartzose, upper fine to upper medium, subround to round, moderate to well sorted, unconsolidated, inferred good intgr porosity, no shows; SILTSTONE(50%) light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (25%), moderate to fast streaming milky yellowish white cut, common visible oil in wash. |
| 1,220.00 to 1,240.00 (20.00) | 100% | SILTSTONE light to pale orange, light to med brown, occasional red brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers & nodules, abundant unconsolidated sandstone grains (20%), common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (25%), moderate to fast streaming milky yellowish white cut, common visible oil in wash. |

Brown Sand (out): 1,250.00 MD, 992.60 TVD, -527.30 SSL

| | |
|---------------------------------|--|
| 1,240.00 to 1,260.00 (20.00) | 100% SANDSTONE clear, quartzose, upper fine to upper medium, subround to round, moderate to well sorted, unconsolidated, no visible cement, inferred good intgr porosity, no shows; SILTSTONE(20%) light to pale orange, off white in part, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, very anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10%), slow to moderate yellowish white cut. |
| 1,260.00 to 1,280.00 (20.00) | 100% SANDSTONE clear, quartzose, upper fine to upper medium, subround to round, moderate to well sorted, unconsolidated, no visible cement, inferred good intgr porosity, no shows; SILTSTONE(40%) light to pale orange, off white in part, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, very anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10%), slow to moderate yellowish white cut. |
| 1,280.00 to 1,300.00 (20.00) | 100% SILTSTONE SILTSTONE: light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, rare anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (15%), moderate yellowish white streaming cut; SANDSTONE(15%); clear, pink in part, quartzose, upper f- upper medium grains, frosted to clear quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows. |
| 1,300.00 to 1,320.00 (20.00) | 100% SILTSTONE light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, rare anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (15%), moderate yellowish white streaming cut; SANDSTONE(50%); clear, pink in part, quartzose, upper f- upper medium grains, frosted to clear quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows. |

- 1,320.00 to 1,340.00 100% **SILTSTONE**
(20.00)
light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, rare anhydrite stringers, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (15%), moderate yellowish white streaming cut; SANDSTONE(15%); clear, pink in part, quartzose, upper f- upper medium grains, frosted to clear quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows.
- 1,340.00 to 1,360.00 100% **SILTSTONE**
(20.00)
light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, very anhydritic in part, minor anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut; SANDSTONE(20%); clear, pink in part, quartzose, upper f- upper medium grains, frosted to clear quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows.
- 1,360.00 to 1,380.00 100% **SILTSTONE**
(20.00)
light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, subrounded, poorly to moderately sorted, mod-w consolidated, very anhydritic in part, minor anhydrite stringers & nodules, common unconsolidated fine to medium quartz grains, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10%), moderate yellowish white streaming cut.
- 1,380.00 to 1,400.00 100% **SILTSTONE**
(20.00)
light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, rare imbedded & loose quartz grains, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, minor anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut.

| | | |
|---------------------------------|------|---|
| 1,400.00 to 1,420.00 (20.00) | 100% | SILTSTONE light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, rare imbedded quartz grains, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, minor anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut; SANDSTONE(30%): clear, quartzose, upper f- upper medium, transparent to translucent quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows. |
| 1,420.00 to 1,440.00 (20.00) | 100% | SANDSTONE clear, quartzose, upper f- upper medium, transparent to translucent quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows; SILTSTONE(30%): light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, rare imbedded quartz grains, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, minor anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut. |
| 1,440.00 to 1,460.00 (20.00) | 100% | SILTSTONE light to pale orange, occasional light brown, very fine to coarse silt, sandy in part, grades to very fine sandstone in part, rare imbedded quartz grains, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, minor anhydrite stringers & nodules, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut; SANDSTONE(40%): clear, quartzose, upper f- upper medium, transparent to translucent quartz, subround to round, moderate to well sorted, unconsolidated, inferred good intergranular porosity, no shows. |
| 1,460.00 to 1,480.00 (20.00) | 100% | SILTSTONE light to pale orange, occasional light brown, very fine to coarse silt, locally sandy, grades to very fine sandstone in part, rare imbedded quartz grains, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic in part, minor anhydrite stringers & nodules, trace loose quartz grains, common dolomitic & anhydritic cement, occasionally tight with very patchy very poor intergranular porosity, spotty light to med brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), moderate yellowish white streaming cut. |

| | | |
|---------------------------------|------|--|
| 1,480.00 to 1,490.00 (10.00) | 100% | <p>SILTSTONE</p> <p>light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, abundant unconsolidated quartzose sandstone grains (20%), occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow-mod milky yellow white cut, rare visible oil in wash.</p> |
| 1,490.00 to 1,510.00 (20.00) | 100% | <p>SILTSTONE</p> <p>light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, locally grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10%), slow-mod milky yellow white cut, rare visible oil in wash.</p> |
| 1,510.00 to 1,540.00 (30.00) | 100% | <p>SILTSTONE</p> <p>light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, becoming sandy, locally grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, trace loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10%), very slow-mod milky yellow white cut.</p> |
| 1,540.00 to 1,560.00 (20.00) | 100% | <p>SLIGHTLY SANDY SILTSTONE</p> <p>light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, sandy, grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, trace to occasional loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), very slow-mod milky yellow white cut, rare oil in wash.</p> |
| 1,560.00 to 1,580.00 (20.00) | 100% | <p>SILTSTONE</p> <p>light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, trace sandy, rare grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, trace to occasional loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), very slow-mod milky yellow white cut, rare oil in wash.</p> |

| | | |
|---------------------------------|------|---|
| 1,580.00 to 1,610.00 (30.00) | 100% | SLIGHTLY SANDY SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, becoming sandy, locally grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, trace to occasional loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor to poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow-mod milky yellow white cut, rare oil in wash. |
| 1,610.00 to 1,640.00 (30.00) | 100% | SILTSTONE light to pale orange, tan to light brown, occasional red brown, very fine to coarse silt, locally grades to very fine sandstone in part, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor to poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), very slow milky yellow white cut, rare oil in wash. |
| 1,640.00 to 1,660.00 (20.00) | 100% | SANDY SILTSTONE becoming tan to light brown, commonly light orange to red, occasional red brown, very fine to coarse silt, very sandy, locally grades to very fine sandstone, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, occasional loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor to poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), very slow milky yellow white cut, rare oil in wash. |
| 1,660.00 to 1,696.00 (36.00) | 100% | SANDY SILTSTONE becoming tan to light brown, but still commonly light orange to red, occasional red brown, very fine to coarse silt, very sandy, grades to very fine sandstone, slight shaly, subrounded, poorly to moderately sorted, mod-w consolidated, anhydritic, common anhydrite stringers, occasional to common loose quartz grains, common dolomitic & anhydritic cement, trace unconsolidated quartzose sandstone grains, occasionally tight with very patchy very poor to poor intergranular porosity, spotty light to buff brown oil staining associated with pale yellow to dull yellow fluorescence (10-15%), slow milky yellow white cut, rare oil in wash. |

EXTRAPOLATED TD @ 1696.0m MD, 994.4 TVD, -529.5 SSL
56.62m South, 729.93m West of Well Bore, Section 6
Extrapolated Inc: 90.8 degrees
Extrapolated Azi: 269.5 degrees

WELL SUMMARY

EOG PIERSON HZNTL 15-06-02-28 WPM was drilled as a horizontal well to develop the Lower Amaranth in the Pierson area. The Lower Amaranth was intersected at 1005.0 m MD (966.8 m TVD, -501.5 m MSL), the Lower Amaranth 'A' Marker was intersected at 1015.0 m MD (971.4 m TVD, -506.1 m MSL),. The Lateral Heel was landed at 1090.0 m MD (990.9 m TVD, -525.6 m MSL), approximately 0.3 m into the Purple Sand. The Green Sand top was intersected at 1071.0 m MD (988.4 m TVD, -523.1 m MSL). The Blue Sand top was intersected at 1090.5 m MD (990.8 m TVD, -525.5 m MSL). The Purple Sand was intersected at 1113.3 m MD (991.9 m TVD, -526.6 m MSL). The leg was drilled along a vertical section plane of 266.45° to a total measured depth of 1696.0 m MD (994.4 m TVD, -529.5 m MSL). It should be noted that at times the rock masked the colour of oil, so oil shows were estimated primarily from fluorescence.

Geology

The following intervals describe the geology of the primary zone of interest in the area.

Lower Amaranth

The Lower Amaranth was estimated to be approximately 40.2 meters thick in the area. The well-bore encountered 5 intervals over the Lower Amaranth and for the purposes of this report they were divided into the Lower Amaranth, the Lower Amaranth 'A' Marker, the Green and Blue Sand and the target zone – the Purple Sand.

From the top of the Lower Amaranth to the Lower Amaranth 'A' Marker was 4.6 meters thick. The rock was composed of silty shale interbedded with anhydrite. The shale was silty in part, commonly micromicaceous to earthy and showed no reservoir potential. The anhydrite was part grading to lower microcrystalline and part cryptocrystalline and dense and showed tight porosity with no oil shows. Gamma averaged 75 CPS over the interval and peaked at 108 CPS. Gas showed background levels and averaged 1-12 units per 10000 for the interval. This unit showed no reservoir potential.

The Lower Amaranth 'A' Marker was 17.0 meters thick and the rock was composed of a siltstone interbedded with shale, anhydrite and minor sandstone inclusions and stringers. The siltstone graded in part to very fine grained sandstone and was cemented with a dolomitic to siliceous cement. Minor very fine to fine unconsolidated and imbedded quartz grains were also observed over this section. Porosity was generally tight to very poor intergranular. The rock had no visible shows or cut throughout the first half of the interval, however in the rest of the interval showed a very patchy light brown oil stain (<5%), with a dull yellow fluorescence and associated very slow, very weak, yellow-white fluorescent cut. Gamma values averaged 110 CPS, and gas values averaged 15 units per 10000 over the interval and peaked to 45 units per 10000. This unit showed very poor to no reservoir potential.

Target Interval

The Target interval for this well was the Purple Sand. The Green Sand was estimated to be 1.2 meters thick and the rock was composed of a siltstone interbedded with rare to occasional sandstone and anhydrite inclusions and stringers. The siltstone in part graded to very fine grained sandstone and was cemented with a dolomitic to siliceous cement. Rare to occasional very fine to fine to rare medium unconsolidated quartz grains were also observed within the siltstone over this section. Porosity of the siltstone was described as generally tight to very poor to poor intergranular. The siltstone showed a patchy light brown oil stain (10%), with a dull to trace moderate yellow fluorescence with an associated slow to occasionally moderate, weak to occasionally moderate, yellow-white fluorescent cut. Gamma values averaged 87 CPS, and gas values averaged 220 units per 10000 and peaked to 370 units per 10000. This unit showed poor reservoir potential.

The Blue Sand was estimated to be approximately 1.1 meters thick and the rock was composed of a siltstone interbedded with rare to occasional sandstone and anhydrite inclusions and stringers. The siltstone in part graded to very fine grained sandstone and was cemented with a dolomitic to siliceous cement. Rare to occasional very fine to fine unconsolidated quartz grains were also observed within the siltstone over this section. Porosity was described as generally tight to very poor to trace poor intergranular. The rock showed a patchy, light brown oil stain (10-15%), with a dull to trace moderate yellow fluorescence with an associated slow to trace moderate, weak to trace moderate, yellow-white fluorescent cut. Gamma values averaged 75 CPS, and gas values averaged 284 units per 10000 and peaked to 492 units per 10000. This unit showed very poor reservoir potential.

The Purple Sand was estimated to be approximately 1.0 meters thick from offsetting wells and the rock was composed of a siltstone interbedded with rare to occasional sandstone and anhydrite inclusions and stringers. The siltstone in part graded to very fine grained sandstone and was cemented with a dolomitic to siliceous cement. Trace to occasional very fine to fine unconsolidated quartz grains were also observed within the siltstone over this section. Porosity was described as generally tight to very poor to poor to trace fair intergranular. The rock showed a patchy, light brown oil stain (10-25%), with a dull to trace moderate yellow fluorescence with an associated slow to moderate, weak to moderate, yellow-white fluorescent cut. Gamma values averaged 75 CPS, and gas values averaged 500 units per 10000 and peaked to 850 units per 10000. This unit showed poor reservoir potential.

The wellbore was drilled within the Purple Sand with a momentary entry into the lower Brown Sand just after landing and at the end of the lateral prior to TD. The wellbore traced the topography fairly consistent; however, minor sliding was required to keep doglegs to a minimum. TD was reached at 1696.0m MD.

RESERVOIR INTERVALS

Lateral Heel: 1090.0 m MD: (990.9 m TVD, -525.6 m MSL)

1090.0 m – 1205.0 m MD: Poor Reservoir (Total 115.0m of wellbore)

The wellbore was landed 0.3 m TVD within the Purple Sand. Here the wellbore had a slight downward trend through the zone until 1205 m when it momentarily dropped into the Top of the Brown Sand. The rock in this section was generally a siltstone that in part graded to a very fine grained sandstone and contained trace very fine to fine unconsolidated and imbedded quartz grains. The siltstone contained occasional to common anhydrite inclusions and was occasionally plugged with dolomitic and siliceous cement. Porosity was tight to poor intergranular, which showed very patchy, light brown oil stain (10-15%), with a dull to trace moderate yellow fluorescence and an associated slow to moderate, leaching yellow-white fluorescent cut. The rock was generally tight to trace poor intergranular porosity. Gamma counts averaged approximately 75 CPS and gas values averaged approximately 500 units and peaked at 868 units per 10000.

1205.0 m – 1240.0 m MD: Poor - Fair Reservoir (Total 35.0m of wellbore)

The wellbore momentarily entered the Top of the Brown Sand but quickly exited the formation when the wellbore bounced upward. The rock here was a silty sandstone with fine Upper grains, moderately well consolidated, poorly sorted with common loose quartz grains. Porosity was tight to poor intergranular, which showed very patchy, light brown oil stain (25%), with a dull to trace moderate yellow fluorescence and an associated slow to moderate, leaching yellow-white fluorescent cut. This rock was a buff – tan, very fine Upper grained rock that was poorly sorted, moderately well consolidated with common loose translucent quartz grains. The rock was generally tight to poor to trace fair intergranular porosity. Gamma counts averaged approximately 70 CPS and gas values averaged approximately 590 units and peaked at 1230 units per 10000.

1240.0 m – 1425.0 m MD: Poor Reservoir (Total 185.0m of wellbore)

The wellbore re-intersected the bottom of the Base of Purple Sand and continued to track the formation with a slight upward to flat trend. The rock in this section was generally a siltstone that in part graded to very fine grained sandstone and contained trace very fine to fine unconsolidated and imbedded quartz grains. The siltstone contained occasional to common anhydrite inclusions and was occasionally plugged with dolomitic and siliceous cement. Porosity was tight to poor intergranular, which showed very patchy, light brown oil stain (10-25%), with a dull to trace moderate yellow fluorescence and an associated slow to moderate, leaching yellow-white fluorescent cut. The rock was generally tight to trace poor intergranular porosity. Gamma counts averaged approximately 73 CPS and gas values averaged approximately 350 units and peaked at 729 units per 10000.

1425.0 m – 1588.0 m MD: Very Poor Reservoir (Total 163.0m of wellbore)

The wellbore continued to track within the Purple Sand roughly until the formation dropped at 1588m MD entering the Brown Sand. The rock in this section was generally a siltstone that in part graded to a very fine grained sandstone and contained trace very fine to fine unconsolidated and imbedded quartz grains. The siltstone contained occasional to common anhydrite inclusions and was occasionally plugged with dolomitic and siliceous cement. Porosity was tight to very poor intergranular, which showed very patchy, light brown oil stain (10-15%), with a dull to trace moderate yellow fluorescence and an associated very slow to moderate, leaching yellow-white fluorescent cut. Gamma counts averaged approximately 80CPS showing and gas values averaged approximately 300 units and peaked at 350 units per 10000.

1588.0 m – 1696.0 m MD: Poor Reservoir (Total 108.0m of wellbore)

Due to instructions not to slide in the last 100m, the wellbore dropped at roughly 88.5 degrees. The rock in this section was generally a siltstone that in part graded to very fine grained sandstone and contained trace very fine to fine unconsolidated and imbedded quartz grains. The siltstone contained occasional to common anhydrite inclusions and was occasionally plugged with dolomitic and siliceous cement. Porosity was tight to poor intergranular, which showed very patchy, light brown oil stain (10-25%), with a dull to trace moderate yellow fluorescence and an associated slow to moderate, leaching yellow-white fluorescent cut. The rock was generally tight to poor intergranular porosity. Gamma counts averaged approximately 80 CPS and gas values averaged approximately 268 units and peaked at 470 units per 10000.

1696.0 m MD: **Extrapolated Total Depth (Toe)** (994.4 m TVD, -529.5 m MSL)

RESERVOIR EVALUATION**Lower Amaranth Reservoir Characterization**

| | | |
|-----------------------------|---------|--------|
| Total Reservoir Drilled: | 606.0 m | 100.0% |
| Total Section Drilled: | 606.0 m | 100.0% |
| 6 - Good Reservoir: | 0.0 m | 0.0% |
| 5 - Fair Reservoir: | 0.0 m | 0.0% |
| 4 - Poor to Fair Reservoir: | 198.0 m | 32.7% |
| 3 - Poor Reservoir: | 408.0 m | 67.3% |
| 2 - Very Poor Reservoir: | 0.0 m | 0.0% |
| 1 - Non Reservoir: | 0.0 m | 0.0% |

The reservoir intervals were broken down into six different reservoir qualities and are relative to the Lower Amaranth beds in the Pierson area. The six qualities are as follows:

- 1) Non Reservoir: Oil staining less than 5% and gas values generally less than 25 units.
- 2) Very Poor Reservoir: Oil staining ranging between 5% and 15% and gas values generally between 25 and 50 units.
- 3) Poor Reservoir: Oil staining ranging between 15% and 25% and gas values generally between 50 and 150 units.
- 4) Poor to Fair Reservoir: Oil staining ranging between 25% to 40% and gas values generally between 150 units to 500 units.
- 5) Fair Reservoir: Oil staining between 40% and 75% and gas values generally between 500 units to 1000 units.
- 6) Good Reservoir: Oil staining above >75% and gas values generally >1000 units.

Taking into consideration the above mentioned reservoir intervals, average oil shows and moderate gas response with respect to previously drilled wells in the Pierson area, EOG Pierson HZNTL 15-06-02-28 WPM should be a moderately successful oil producer after a fracture stimulation.

Kim Heinemann

8001
revised
"29-Sep-2012"

INITIAL PRODUCTION REPORT

Two (2) copies of this report are to be completed and submitted to the district office within days following the fifth after the well has been placed on normal production.

| | |
|--|----------------------|
| Well Name: EOG PIERSON HZNTL 100/15-06-002-28W1/00 | License Number: 8001 |
| Operating Company: EOG RESOURCES CANADA INC. | |
| Battery Well Produced To (name & locations): 15-9-2-25 BATTERY | |

Completion Interval(s): 1091m to 1672m

_____ m to _____ m

Open Hole: ☐ Perforated: ☒

Formation: ~~SPEAREISH~~ L. Amar ✓

Completion Oil:

| |
|--|
| Source of Completion Oil (Co. & location): |
| Volume Supplied: _____ m ³ |

Date Supplied:* ____/____/____
YY MM DD

| Date YY MM DD | Completion Oil Used (m ³) | Completion Oil Recovered (m ³) | Completion Oil To Be Recovered (m ³) | Water Produces (m ³) |
|------------------|---|---|--|-------------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

(Continue on separate sheet if necessary)

Disposition of Recovered Completion Oil: _____ m³ to _____
(Co. & location)

On-Production Date:* 12/09/06
YY MM DD

- * Official on-production date (i.e. date of first new oil production after completion oil recovered).
- * Date in which the well produces oil in excess of the volume of completion oil used.

Production Test:

| Date YY MM DD | Hours Produced | Oil Produced m ³ | Water Produced m ³ | Pumping | Flowing | Gas-Oil Ratio (m ³ / m ³) | Oil Density (kg/ m ³) |
|------------------|-------------------|-----------------------------------|-------------------------------------|---------|---------|--|---|
| 12 09 22 | 16 | 5.91 | 0 | X | | 50 est. | 843 est. |
| 12 09 23 | 24 | 10.49 | 0 | X | | 50 est. | 843 est. |
| 12 09 24 | 24 | 30.73 | 0 | X | | 50 est. | 843 est. |
| 12 09 25 | 24 | 26.33 | 0 | X | | 50 est. | 843 est. |
| 12 09 26 | 24 | 31.01 | 0 | X | | 50 est. | 843 est. |
| Totals | 112 | 104.47 | 0 | | | | |

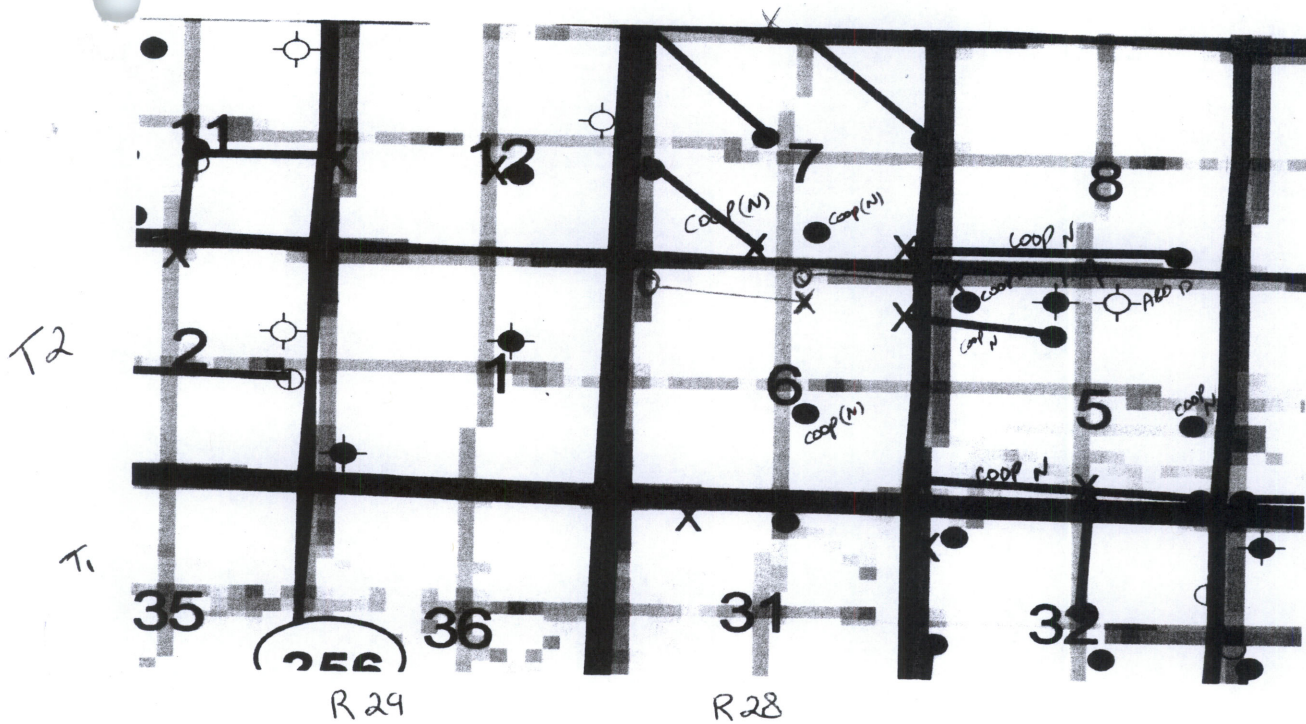
Ellie Adams Production Administrator 204-673-2732
(Submitted By) (Position) (Telephone)

Remarks: Fresh water was used for the completion fluid. 0.48m³ of oil was produced on 12 09 06.

F/Pale: 07 2913 Reappraised by NOKR Nov 15th 2012

15C-6-2-28

Licence



| 100 BH# 13C-6-2-28 SL# 15B-6-2-28 | Drainage LSD's 13,14 Sec 6 | Inspected Yes | Comments -No concerns |
|--------------------------------------|----------------------------------|------------------|---|
| 100 BH# 15C-6-2-28 SL# 13C-5-2-28 | LSD's 15,16 Sec 6 | Yes | - No <u>concerns</u> <u>concerns</u> |

5-7-2-28 # 6084 COOP
(3A-7) Non-conf

1-8-2-28 # 7225 COOP
(1A-7) Non conf

4 Star Ventures

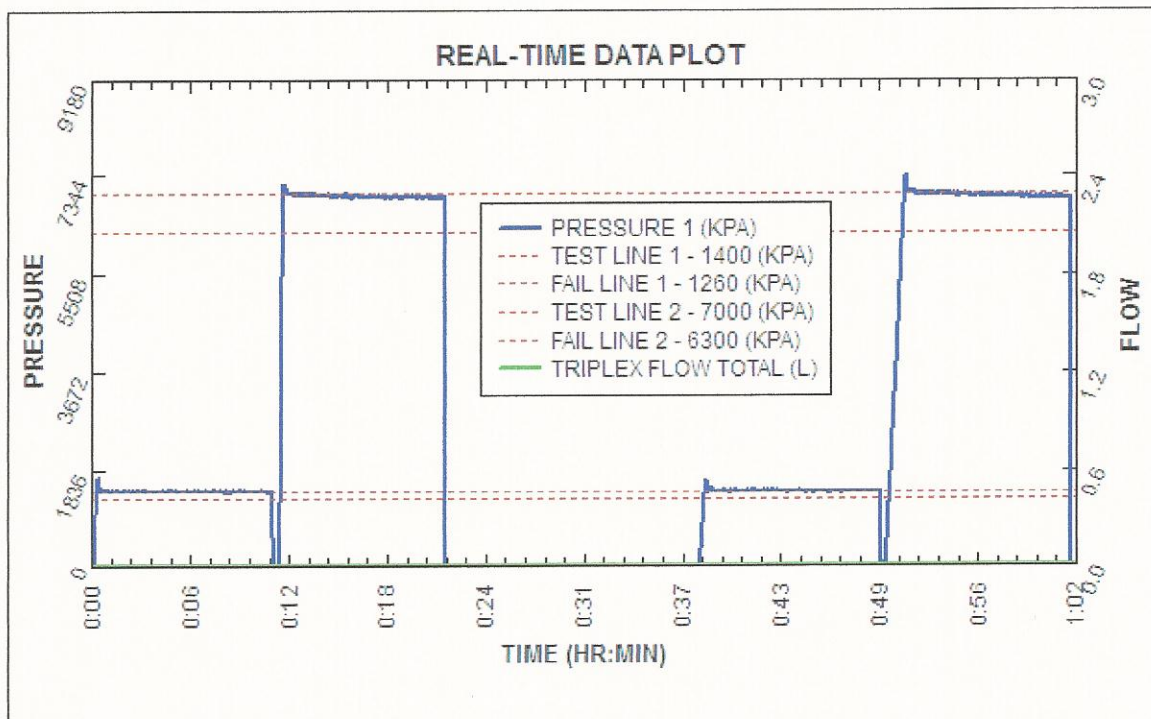
JOB REPORT

Company: EOG RESOURCES
Contact: CHRIS EVANYSHYN
Location: 13C-05-002-28 W1

Email:

Date August 26, 2012
Start Time 20:09:38
End Time 21:12:02
Test Type: Stack
Contractor: PD 191
LSD#: 13C-05-002-28W1
Operator 1: Kory

Unit#: 7
Client: EOG RESOURCES
Other: Lic 8001
Fluid Pumped: Water



Comments: TEST 4 PIPE
RAMS, STABBING V TEST
5BLIND RAMS, ISKLV, HYD
HCR, CASING

4 Star Ventures

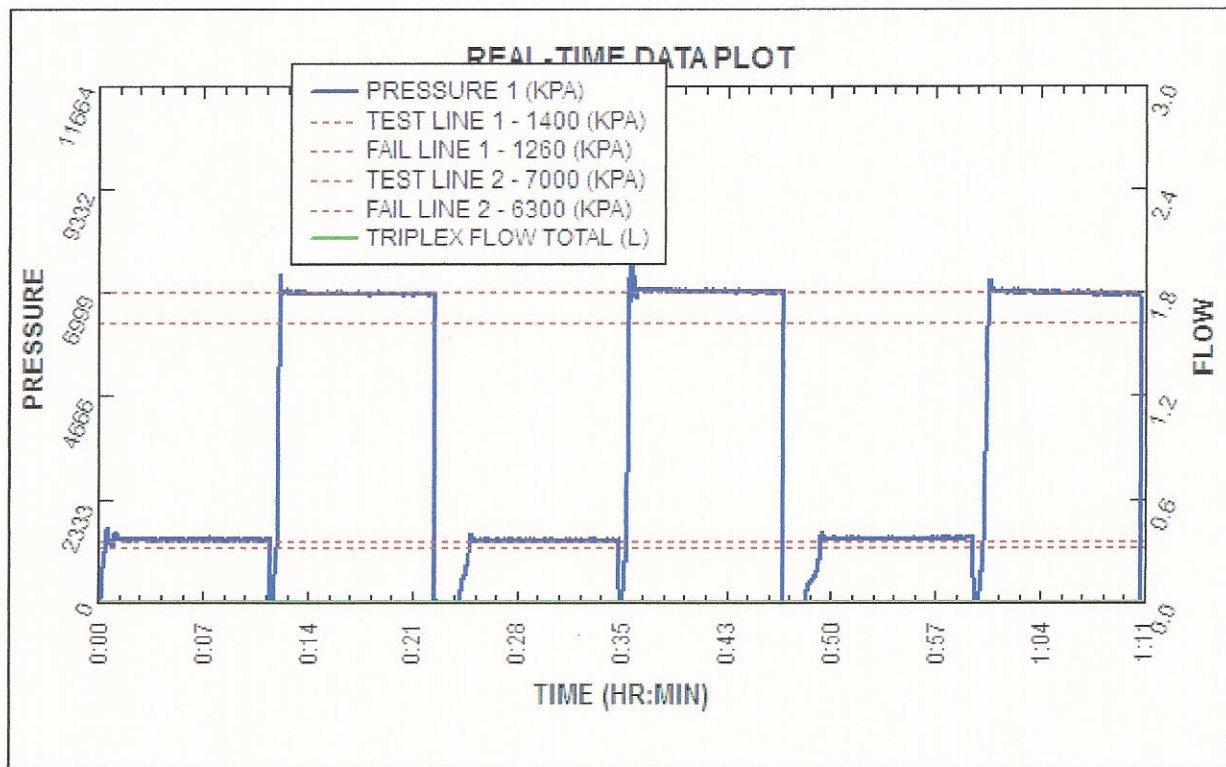
JOB REPORT

Company: EOG RESOURCES
Contact: CHRIS EVANYSHYN
Location: 13C-05-002-28 W1

Email:

Date August 26, 2012
Start Time 18:55:36
End Time 20:07:29
Test Type: MANIFOLD/STACK
Contractor: PD 191
LSD#: 13C-05-002-28-W1
Operator 1: Kory

Unit#: 7
Client: EOG RESOURCES
Other: Lic 800
Fluid Pumped: Water



Comments: MANIFOLD 11,1,2,3 ,MAN
HCR,CHOKE LINE TEST 2
MANIFOLD 4,5,6,7 ,MAN
HCR,CHOKE LINE TEST 3
ANN.OSKLV,ISBOP,CHOKE



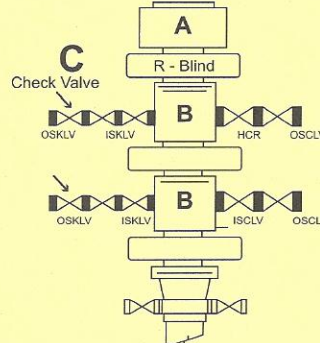
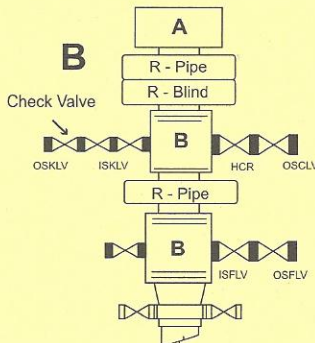
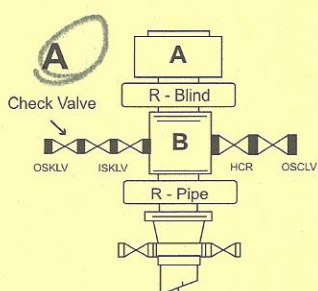
Box 193
Gull lake, SK S0N
Toll Free: 1-800-588-0551

TICKET #

TEST DETAIL SHEET

| | | | | | | | |
|-------------------------------------|------------------------------|------------------------------------|----------------------------|--------------------------------|-----------------------|--------------|--|
| OIL COMPANY <u>Eob Resources</u> | | LOCATION <u>13C-05-002-28W1</u> | | WELL NAME <u>Pic-son</u> | | CASING DEPTH | |
| DATE <u>Aug 26/12</u> | CONTRACTOR <u>PD# 191</u> | | MUD WEIGHT <u>Kg/m3</u> | CASING SIZE <u>8 5/8</u> mm | WEIGHT <u>Kg/m</u> | GRADE | |

STACK TYPE



LOW PRESSURE TEST 1400 kPa FOR 10 MINUTES HIGH 7000 kPa FOR 10 MINUTES

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------------|------------|---|---|---|---|---|---|---|---|
| BLIND RAMS | | | | | 5 | | | | |
| UPPER PIPE RAMS | | | | | | | | | |
| LOWER PIPE RAMS | | | | 4 | | | | | |
| ANNULAR | | | 3 | | | | | | |
| HYDRAULIC HCR | | | | | 5 | | | | |
| MANUAL HCR | 1 | 2 | | | | | | | |
| ISKLV | | | | | 5 | | | | |
| OSKLV | | | 3 | | | | | | |
| ISFLV | | | | | | | | | |
| OSFLV | | | | | | | | | |
| CHECK VALVE | | | | | | | | | |
| UPPER KELLY COCK | | | | | | | | | |
| LOWER KELLY COCK | | | | | | | | | |
| STABBING VALVE | | | | 4 | | | | | |
| I.S.B.O.P | | | 3 | | | | | | |
| MANIFOLD V | 1, 1, 2, 3 | 1 | | | | | | | |
| MANIFOLD V | | | | | | | | | |
| MANIFOLD V | 4, 5, 6, 7 | 2 | | | | | | | |
| MANIFOLD V | 8, 9, 10 | | 3 | | | | | | |
| MAINFOLD V | | | | | | | | | |
| CHOKES A & B | ✓✓ | | | | | | | | |
| CASING | | | | | 5 | | | | |
| CHOKE LINE | 1 | 2 | 3 | | | | | | |

ACCUMULATOR "M" Valves

Press Rating 21,000 kPa Size 684 Litres
Operating Press 20,000 kPa Fluid Level 50% Full
Precharge Press 6200 kPa # of N2 Bottles 2
Comments:

Time to Close:

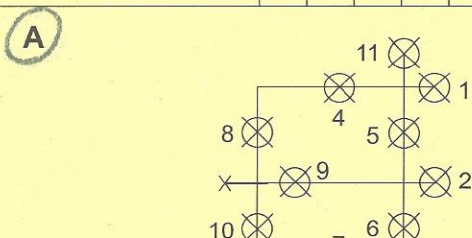
Annular 7 seconds Remaining Pressure 12,500
Pipes 2 seconds Remaining Pressure 11,000
~~Pipes~~ seconds ~~Remaining Pressure~~
HCR 1 seconds Remaining Pressure 10,500

Operating Controls Manifold Properly Marked yes
Locking Wheels Calla Yes ✓ No
Manifold Pressure 10,500 kPa Annular Pressure 8000 kPa
Pressure After 3 Functions with Pump shut off 10,500 kPa
Time to Recharge 2 minutes 20 seconds

Nitrogen Bottle Pressure #1 2800 #2 2600
Motor Kill: Floor ✓ Yes No
Pump ✓ Yes No

Remarks: Excellent Job, NO leak's

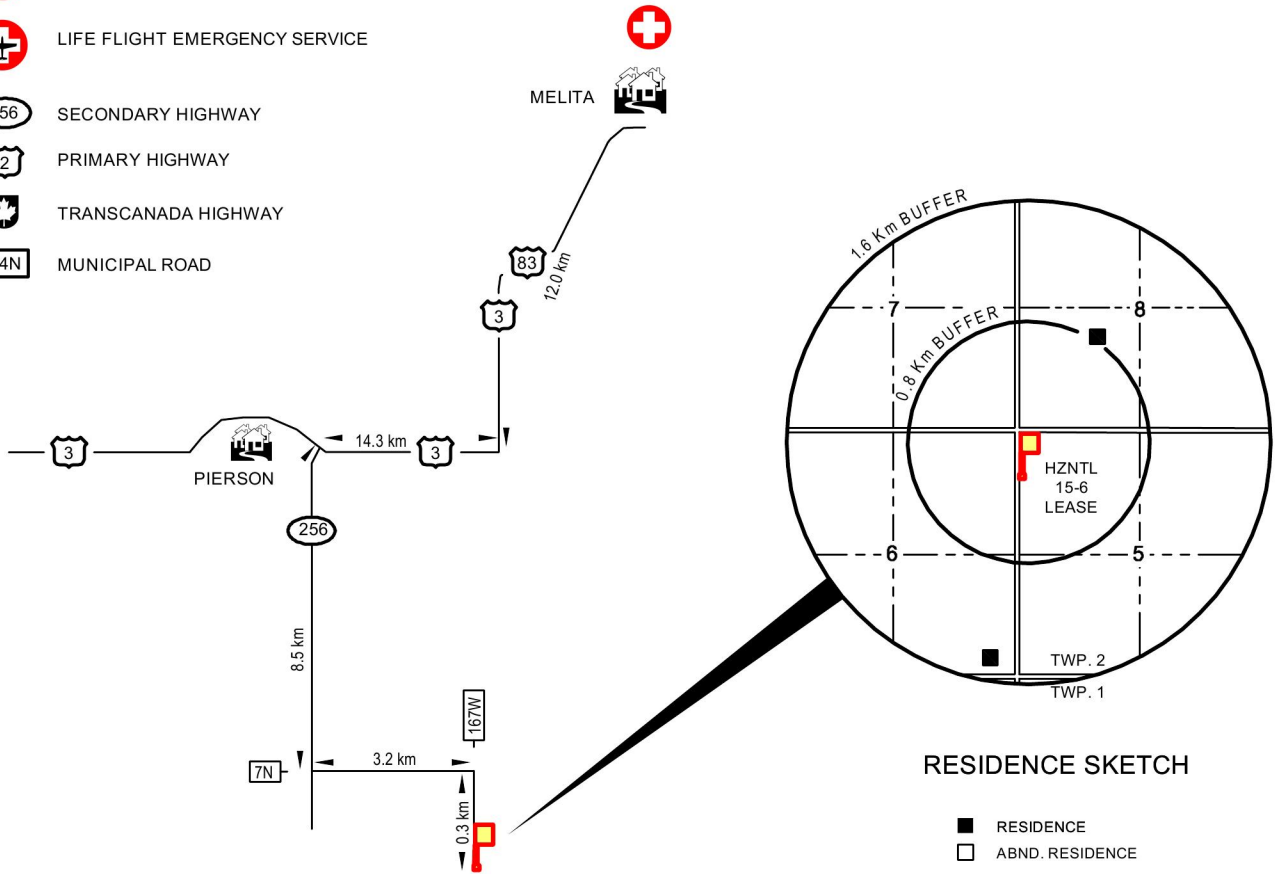
Thank's
Ken



EOG PIERSON HZNTL 15-6-2-28WPM
UWI
EOG PIERSON HZNTL 100.15.06.002.28WPM
WELL SITE AND ACCESS ROAD
TERMINUS
LSD. 15C - SEC. 6 - TWP. 2 - RGE. 28WPM
WELL SITE SURFACE LOCATION
LSD. 13C - SEC. 5 - TWP. 2 - RGE. 28WPM
R.M. of EDWARD

LEGEND

- HOSPITAL
- LIFE FLIGHT EMERGENCY SERVICE
- SECONDARY HIGHWAY
- PRIMARY HIGHWAY
- TRANSCANADA HIGHWAY
- MUNICIPAL ROAD



LEGEND:

Distances are in metres. SCALE: 1:5000

Portions referred to shown thus:

Legal Survey Posts (found / placed)

Planted Wood Hub

Fence Lines

Oil / Gas Lines

Overhead Power Lines

Buried Power Cables

Buried Telecom Cables

Bush

Low Area / Slough

Water Covered Area



- Surveyed Well Centre
- Standing Well
- Producer
- Abandoned Producer
- Abandoned Dry
- Injection Well
- Injection Well (Former Producer)
- Abandoned Water Injection
- Abandoned Water Injection (Former Producer)
- Salt Water Disposal

- Salt Water Disposal (Former Producer)
- Abandoned Salt Water Disposal
- Abd. Salt Water Disposal (Former Prod.)
- Dual Completion
- Abandoned Dual Completion
- Junked and Abandoned
- Surface Location - Horizontal / Directional / Slant
- Water Supply Well
- Abandoned Water Supply Well
- Abandoned Structure Test Hole



OPERATOR:



WELL LICENCE INFORMATION
THE PROPOSED WELL CENTRE IS:

- At least 1.5 km from the Corporate Limits of a City, Town or Village
- At least 75m from any shoreline
- At least 75m from any Surface Improvements (O/H Power Line)
- At least 45m from any surveyed road
- At least 75m from any aircraft runway or taxiway
- At least 75m from any water well
- Approximately 5.1 km from the nearest urban centre (Lyleton)
- Approximately 0.8 km from the nearest residence (SW¼ 8-2-28WPM)

| YES | NO |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

FACILITIES SHOWN ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. PRIOR TO ANY CONSTRUCTION ON LEASE OR ACCESS ROAD, EOG RESOURCES CANADA INC., MTS COMMUNICATIONS INC., MANITOBA HYDRO, AND MANITOBA HYDRO-GAS OPERATIONS **MUST** BE CONTACTED FOR LOCATION OF ANY UNDERGROUND FACILITIES THAT MAY EXIST.

There are no surface or underground improvements within 76m of well centre except as shown. OTHER FACILITIES MAY EXIST, OF WHICH WE WERE UNAWARE OF OR UNABLE TO LOCATE.



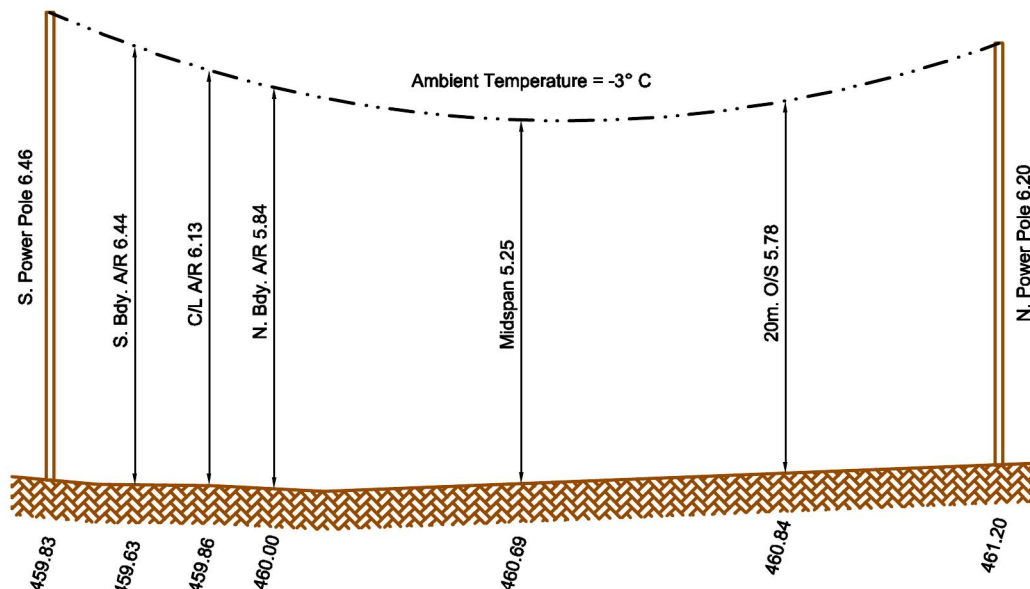
All distances shown are horizontal and at ground level. All bearings are NAD 83 (Zone 14) UTM grid bearings. The Combined Scale Factor derived is 0.999844

| No. | DATE | DESCRIPTION | DWN | CKD |
|-----|--------------|----------------------|-----|-----|
| 0 | MAR.15, 2011 | ISSUED | TJ | PFS |
| - | MAR.11, 2011 | RE-ISSUED FOR REVIEW | TJ | PFS |
| - | FEB.22, 2011 | ISSUED FOR REVIEW | TJ | PFS |

REVISIONS

FIELD BOOK
V29
PAGE(S)
N/A

Surveyed by: KD
Drafted by: TJ
Checked by: PFS



POWER LINE DETAIL
Not To Scale

**SURFACE
(13C-5)**

LOCAL CO-ORDINATES
51.00 S of N } Sec.5
67.00 E of W }

UTM CO-ORDINATES (NAD 83)
5441176.877 N } CSRS
339094.580 E }

UTM CO-ORDINATES (NAD 27)
5440955.190 N } CSRS
339121.238 E }

LATITUDE / LONGITUDE(LL83)
49°06'08.554" } CSRS
101°12'16.155" }

LATITUDE / LONGITUDE(LL27)
49°06'08.495" } CSRS
101°12'14.582" }

**CASING POINT
(16D-6)**

LOCAL CO-ORDINATES
94.91 S of N } Sec.6
94.91 W of E }

UTM CO-ORDINATES (NAD 83)
5441136.992 N } CSRS
338901.342 E }

UTM CO-ORDINATES (NAD 27)
5440915.302 N } CSRS
338927.997 E }

LATITUDE / LONGITUDE(LL83)
49°06'07.081" } CSRS
101°12'25.621" }

LATITUDE / LONGITUDE(LL27)
49°06'07.022" } CSRS
101°12'24.048" }

**BOTTOM HOLE
(15C-6)**

LOCAL CO-ORDINATES
94.91 S of N } Sec.6
697.54 W of E }

UTM CO-ORDINATES (NAD 83)
5441150.660 N } CSRS
338298.954 E }

UTM CO-ORDINATES (NAD 27)
5440928.966 N } CSRS
338325.604 E }

LATITUDE / LONGITUDE(LL83)
49°06'06.954" } CSRS
101°12'55.328" }

LATITUDE / LONGITUDE(LL27)
49°06'06.895" } CSRS
101°12'53.754" }

CARTESIAN CO-ORDINATES (NAD83)

Note:

All distances are cartesian referenced to the
UTM GRID, NAD 83, ZONE 14

Casing Point is
39.89 South of surface location
193.27 West

Bottom Hole is
26.22 South of surface location
795.75 West

HZNTL 11-5 Surface is
291.45 South of surface location
175.34 West

HZNTL 1-8 Surface is
194.14 North of surface location
146.78 West

Vertical 2-7 is
297.81 North of surface location
692.61 West

Proposed HZNTL 13-6 Surface is
153.96 South of surface location
769.42 West

CARTESIAN CO-ORDINATES (TRUE NORTH)

Note:

All distances are cartesian referenced to
True North (Grid Convergence = -1.6663°)

Casing Point is
45.49 South of surface location
192.03 West

Bottom Hole is
49.35 South of surface location
794.65 West

WELL CENTRE ELEVATION: 460.90

Elevations shown are in Geodetic Datum
from the Province of Manitoba Mon.
#82R760

CORNER ELEVATIONS:

N.E. CORNER - 461.29
S.E. CORNER - 461.51
S.W. CORNER - 460.50
N.W. CORNER - 461.00

NW ¼ Sec. 5 Twp. 2 Rge. 28WPM
Owner(s): DALE CURTIS GARDINER

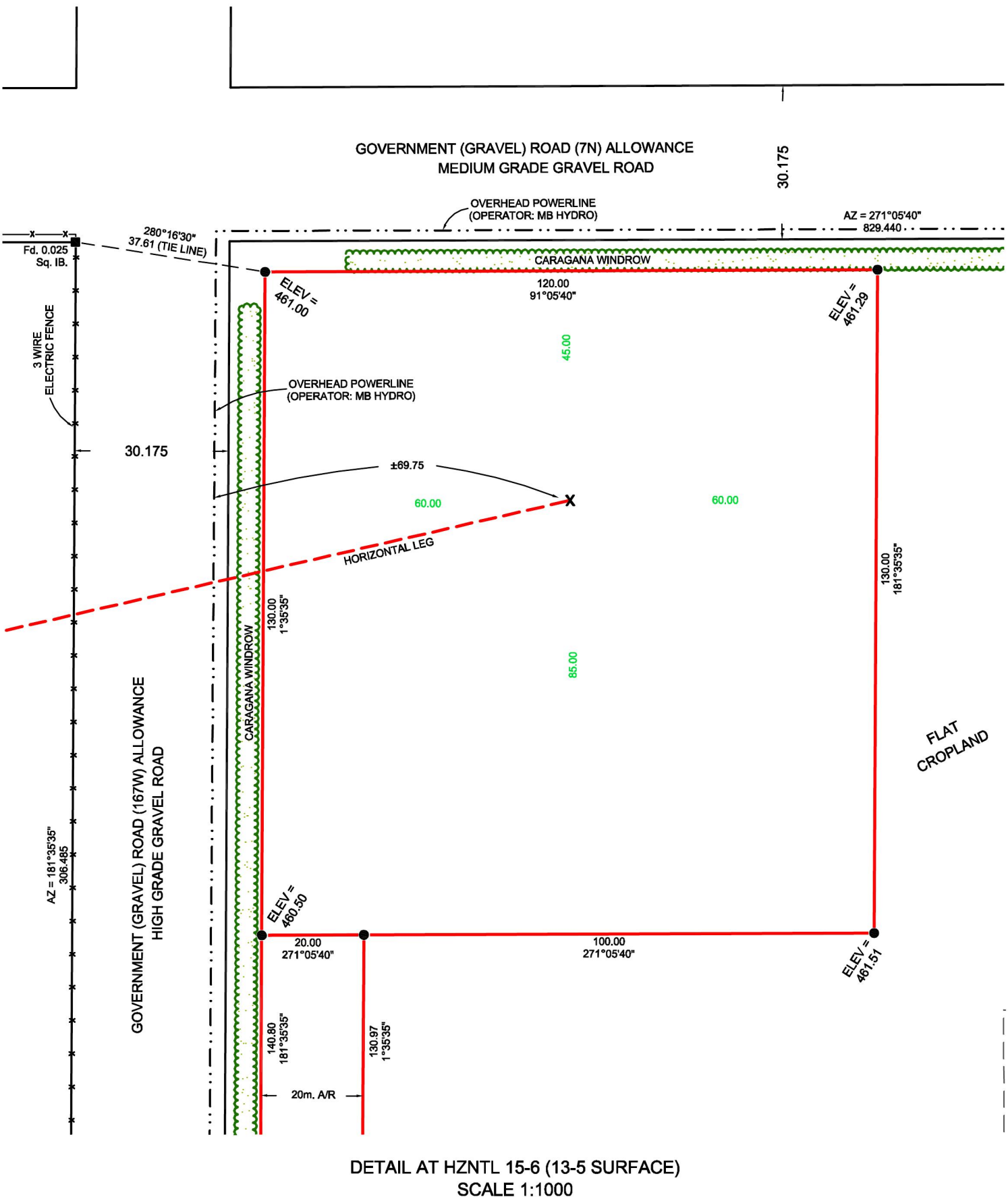
C.T. No. 1647848

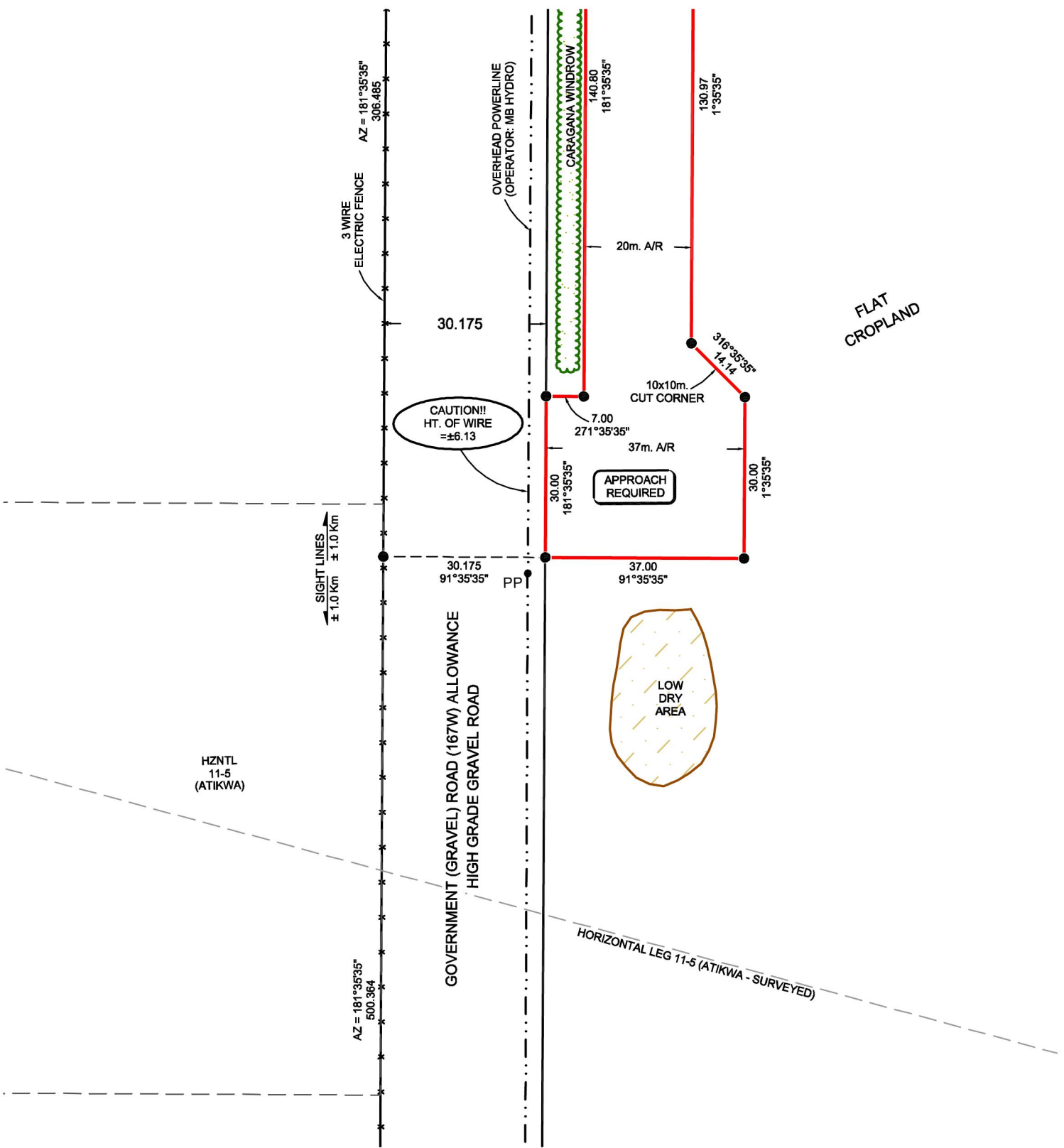
AREAS REQUIRED

| | | |
|-------------|----------|---------|
| WELL SITE | 1.560 ha | 3.85 ac |
| ACCESS ROAD | 0.398 ha | 0.98 ac |
| TOTAL | 1.958 ha | 4.83 ac |

I certify that the survey represented by this plan is
correct to the best of my knowledge and was
completed on the 9th day of March, 2011.

Ken W. Bely
MANITOBA LAND SURVEYOR
[Signature]
Witness
[Signature]
MANITOBA LAND SURVEYOR





DETAIL
SCALE 1:1000

EOG RESOURCES CANADA INC.

Plan Showing Photo Mosaic of
EOG PIERSON HZNTL 15-6-2-28WPM
from a Surface Location in
L.S. 13 - Sec.5 - Twp.2 - Rge. 28WPM

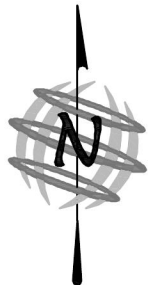


Photo Date : May 20, 2006.
Photo No. : Orthographic Photo

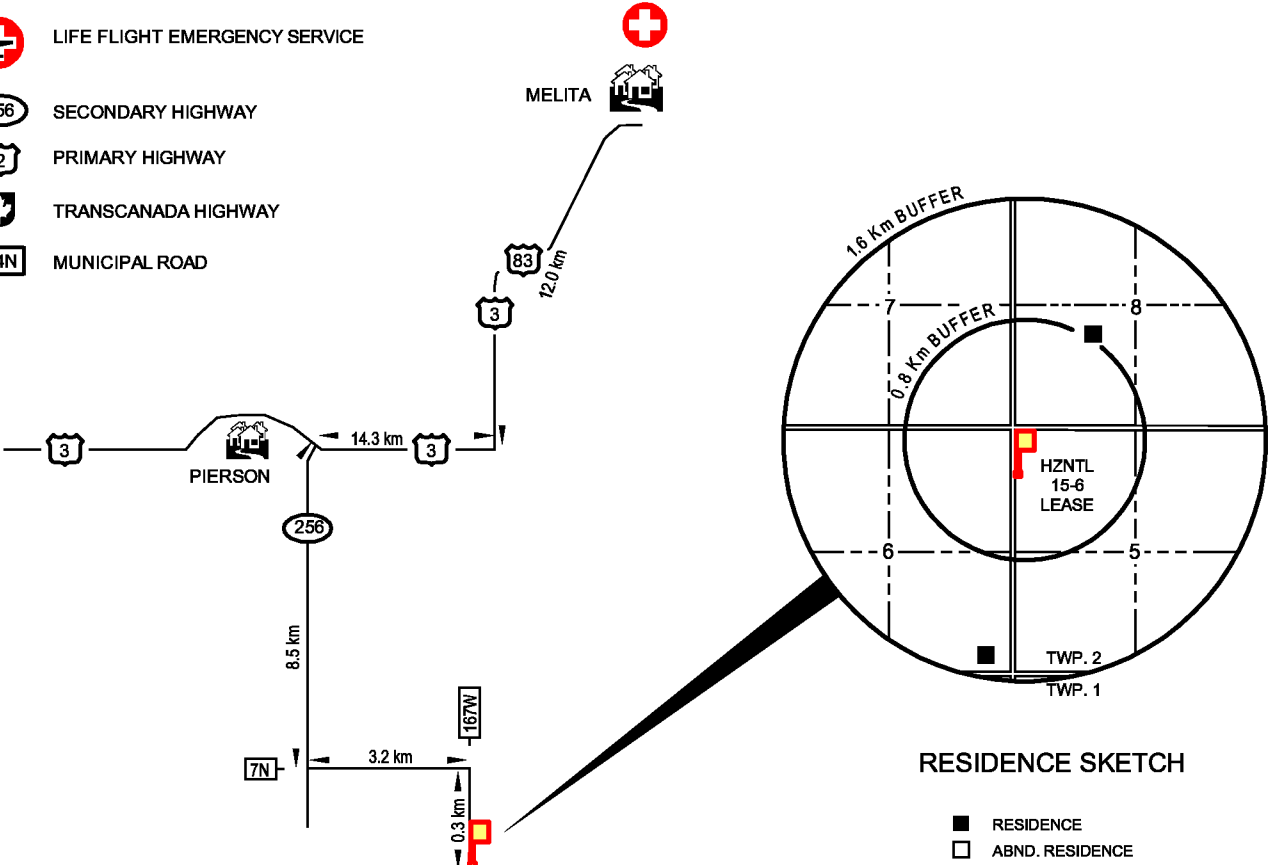
WELL SITE PHOTO PLAN
0 50 100 200 300 400 500
SCALE - 1:10,000

| | | |
|-----------------|----------------------|-------------------------|
| Client File No: | | |
| REV. | Revision: | |
| 0 | Date: March 15, 2011 | Job No.: 135986-V |
| | File: 135986W | Initials: KD - TJ - PFS |

EOG PIERSON HZNTL 15-6-2-28WPM
UWI
EOG PIERSON HZNTL 100.15-06-002-28W1.00
WELL SITE AND ACCESS ROAD
TERMINUS
LSD. 15C - SEC. 6 - TWP. 2 - RGE. 28WPM
WELL SITE SURFACE LOCATION
LSD. 13C - SEC. 5 - TWP. 2 - RGE. 28WPM
R.M. of EDWARD

LEGEND

- HOSPITAL
- LIFE FLIGHT EMERGENCY SERVICE
- SECONDARY HIGHWAY
- PRIMARY HIGHWAY
- TRANSCANADA HIGHWAY
- MUNICIPAL ROAD



LEGEND:

Distances are in metres. SCALE: 1:5000

Portions referred to shown thus:

- Legal Survey Posts (found / placed)
- Planted Wood Hub
- Fence Lines
- Oil / Gas Lines
- Overhead Power Lines
- Buried Power Cables
- Buried Telecom Cables
- Bush
- Low Area / Slough
- Water Covered Area

- Surveyed Well Centre
- Standing Well
- Producer
- Abandoned Producer
- Abandoned Dry
- Injection Well
- Injection Well (Former Producer)
- Abandoned Water Injection
- Abandoned Water Injection (Former Producer)
- Salt Water Disposal

- Salt Water Disposal (Former Producer)
- Abandoned Salt Water Disposal
- Abd. Salt Water Disposal (Former Prod.)
- Dual Completion
- Abandoned Dual Completion
- Junked and Abandoned
- Surface Location - Horizontal / Directional / Slant
- Water Supply Well
- Abandoned Water Supply Well
- Abandoned Structure Test Hole

OPERATOR:

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- At least 75m from any Surface Improvements (O/H Power Line)
- At least 45m from any surveyed road
- At least 75m from any aircraft runway or taxiway
- At least 75m from any water well
- Approximately 5.1 km from the nearest urban centre (Lyleton)
- Approximately 0.8 km from the nearest residence (SW¼ 8-2-28WPM)

| YES | NO |
|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |



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There are no surface or underground improvements within 76m of well centre except as shown. OTHER FACILITIES MAY EXIST, OF WHICH WE WERE UNAWARE OF OR UNABLE TO LOCATE.

Altus Geomatics
Manitoba

Toll Free: 1-800-465-6233
www.altusgeomaticsmb.com

Altus Geomatics
MEMBER

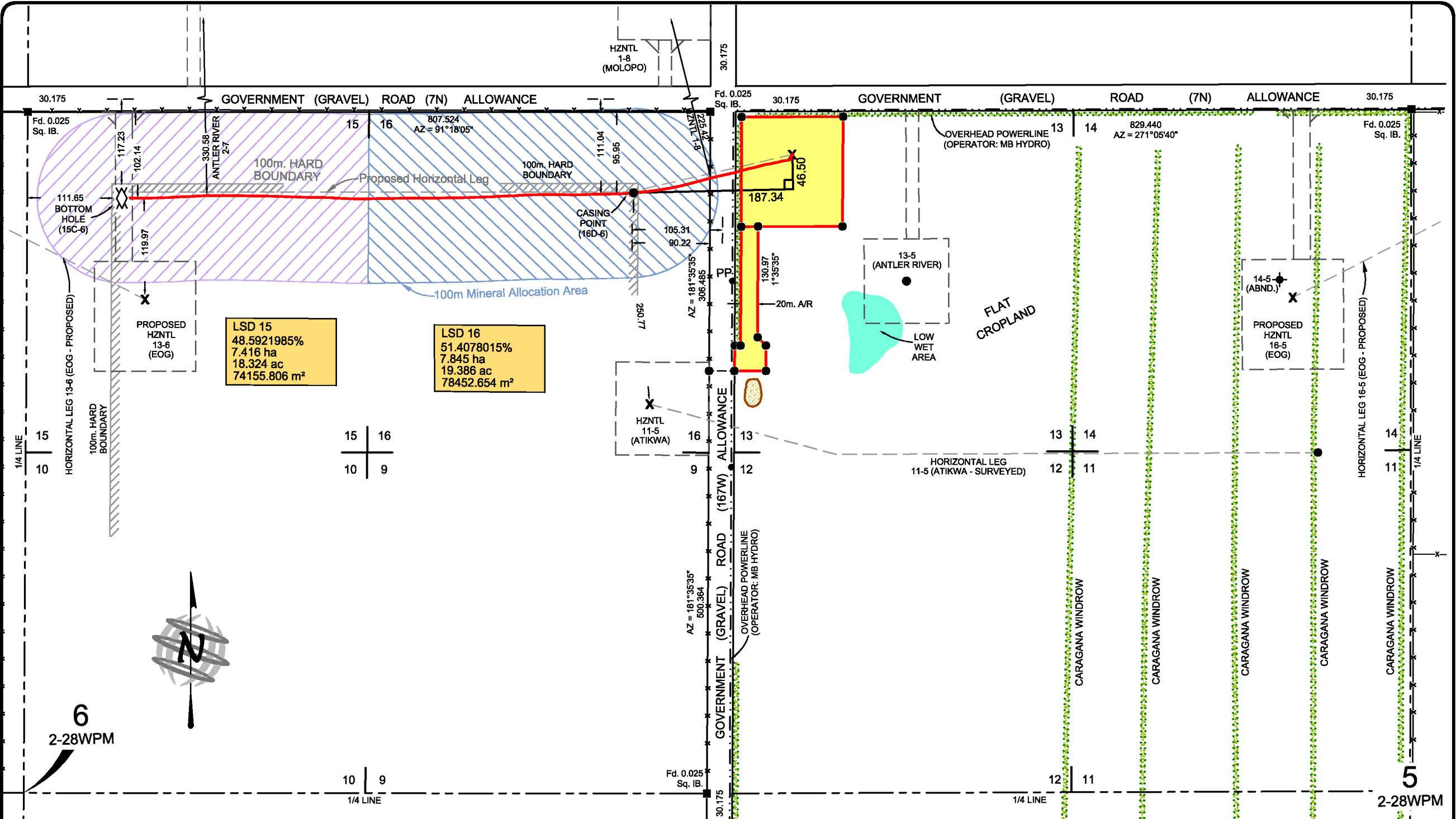
All distances shown are horizontal and at ground level.
All bearings are NAD 83 (Zone 14) UTM grid bearings.
The Combined Scale Factor derived is 0.999844

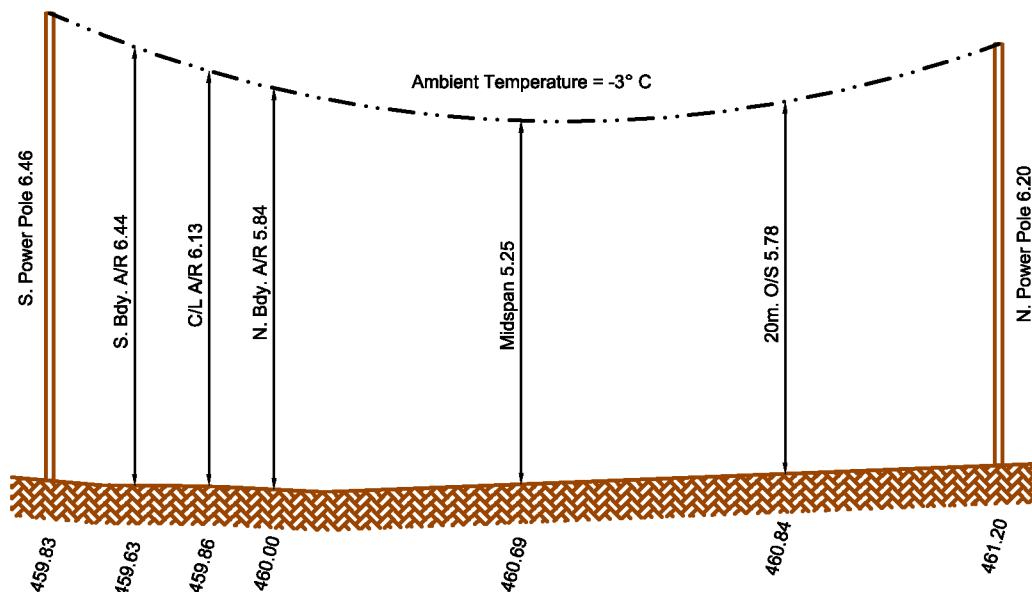
| No. | DATE | DESCRIPTION | DWN | CKD |
|-----|---------------|---|-----|-----|
| 1 | AUG. 31, 2012 | ADDED HZNTL AS-DRILLED LEG AND MINERAL ALLOCATION | HB | CC |
| 0 | MAR.15, 2011 | ISSUED | TJ | PFS |
| - | MAR.11, 2011 | RE-ISSUED FOR REVIEW | TJ | PFS |
| - | FEB.22, 2011 | ISSUED FOR REVIEW | TJ | PFS |

REVISIONS

FIELD BOOK
V29
PAGE(S)
N/A

Surveyed by: KD
Drafted by: TJ
Checked by: PFS





POWER LINE DETAIL
Not To Scale

**SURFACE
(13C-5)**

LOCAL CO-ORDINATES
51.00 S of N } Sec.5
67.00 E of W }

UTM CO-ORDINATES (NAD 83)
5441176.880 N } CSRS
339094.580 E }

UTM CO-ORDINATES (NAD 27)
5440955.193 N } CSRS
339121.238 E }

LATITUDE / LONGITUDE(LL83)
49°06'08.553" } CSRS
101°12'16.155" }

LATITUDE / LONGITUDE(LL27)
49°06'08.495" } CSRS
101°12'14.582" }

**CASING POINT
(16D-6)**

LOCAL CO-ORDINATES
95.95 S of N } Sec.6
90.22 W of E }

UTM CO-ORDINATES (NAD 83)
5441135.850 N } CSRS
338906.000 E }

UTM CO-ORDINATES (NAD 27)
5440914.160 N } CSRS
338932.655 E }

LATITUDE / LONGITUDE(LL83)
49°06'07.083" } CSRS
101°12'25.390" }

LATITUDE / LONGITUDE(LL27)
49°06'06.989" } CSRS
101°12'23.817" }

**BOTTOM HOLE
(15C-6)**

LOCAL CO-ORDINATES
102.14 S of N } Sec.6
695.90 W of E }

UTM CO-ORDINATES (NAD 83)
5441143.350 N } CSRS
338300.400 E }

UTM CO-ORDINATES (NAD 27)
5440921.656 N } CSRS
338327.050 E }

LATITUDE / LONGITUDE(LL83)
49°06'06.719" } CSRS
101°12'55.246" }

LATITUDE / LONGITUDE(LL27)
49°06'06.660" } CSRS
101°12'53.672" }

CARTESIAN CO-ORDINATES (NAD83)

Note:

All distances are cartesian referenced to the
UTM GRID, NAD 83, ZONE 14

Casing Point is
41.04 South of surface location
188.61 West

Bottom Hole is
33.54 South of surface location
794.30 West

HZNTL 11-5 Surface is
291.45 South of surface location
175.34 West

HZNTL 1-8 Surface is
194.17 North of surface location
146.75 West

Vertical 2-7 is
297.81 North of surface location
692.61 West

Proposed HZNTL 13-6 Surface is
153.97 South of surface location
769.42 West

CARTESIAN CO-ORDINATES (TRUE NORTH)

Note:

All distances are cartesian referenced to
True North (Grid Convergence = -1.6663°)

Casing Point is
46.50 South of surface location
187.34 West

Bottom Hole is
56.62 South of surface location
792.99 West

WELL CENTRE ELEVATION: 460.90

From original plat data.

WELL CENTRE ELEVATION: 460.90

From directional drilling data.

Elevations shown are in Geodetic Datum
from the Province of Manitoba Mon.
#82R760

CORNER ELEVATIONS:

N.E. CORNER - 461.29
S.E. CORNER - 461.51
S.W. CORNER - 460.50
N.W. CORNER - 461.00

NW ¼ Sec. 5 Twp. 2 Rge. 28WPM

Owner(s): DALE CURTIS GARDINER

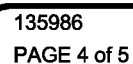
C.T. No. 1647848

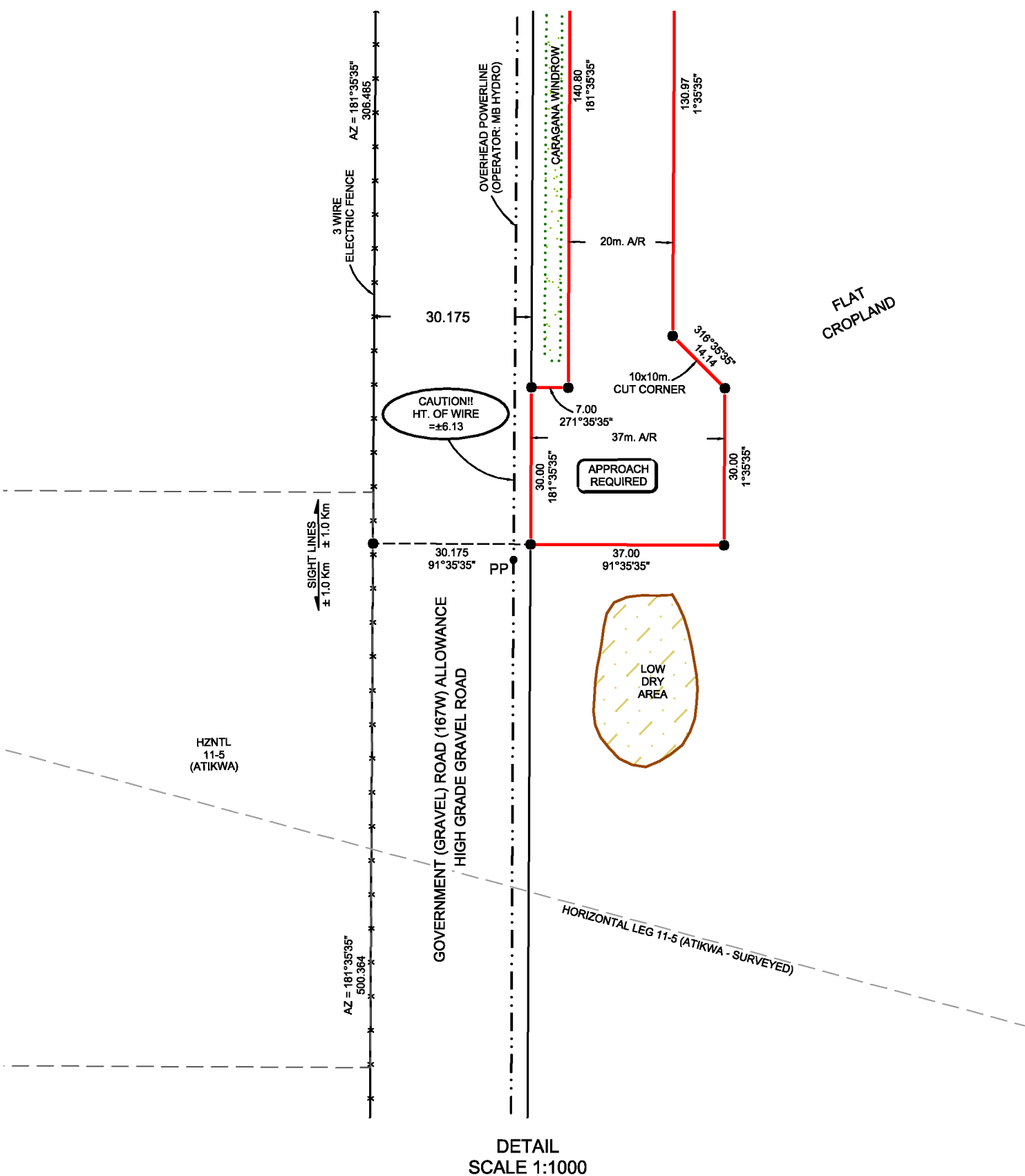
AREAS REQUIRED

| | | |
|--------------|-----------------|----------------|
| WELL SITE | 1.560 ha | 3.85 ac |
| ACCESS ROAD | 0.398 ha | 0.98 ac |
| TOTAL | 1.958 ha | 4.83 ac |

I certify that the survey represented by this plan is
correct to the best of my knowledge and was
completed on the 9th day of March, 2011.

Ken W. Bely
MANITOBA LAND SURVEYOR
[Signature]
Witness
[Signature]
MANITOBA LAND SURVEYOR





FRONT PAGE SUMMARY

Tour Sheet Serial Number

Vendor Software Version

Year

Month

Day

0Y52191_20120829_1B

Pason

2012

08

29

Rig No.

Well Name

Surface Location

Prov

Loc Type

Unique Well Id

Kelly Bushing

191

EOG Pierson H2NTL
15-06-02-28(WPDM)

13-05-002-28W1

MB

DLS

100/15-06-002-28W1/00

4.50

License No.

Operator

Contractor

Well Type

Re-Entry

8001

EOG RESOURCES CANADA (PARTNERSHIP)

PRECISION DRILLING, DIV OF PDC

HORIZ

Operator's AFE

Contractor's Job No

Spud Date

Time

12J0056

14

2012/08/26

19:30

Signature of Operator Representative

Signature of Contractor's Rig manager

Rig Release Date

Time

Chris Evanyshyn

Jim Raycraft

DAILY CHECKS

OP RM

1) Daily Walk Around Inspection

2) Detailed Inspection - Weekly (Using Check List)

3) H2S Signs Posted if Required

4) Well Licence & Stick Diagram Posted

5) Flare Lines Staked

6) BOP Drills Performed

7) Visually Inspected BOPs - Flare Lines & Degasser Lines

1) Rig Site Health & Safety Meeting (one/crew/month)

2) CAODC Rig Safety Inspection Checklist (one/rig/month)

3) Mast Inspection before Raising or Lowering

4) Crown Saver Checked

5) Motor Kills Checked

FUEL @ 08:00 HOURS

Rig

Boiler

Op Fuel

WEATHER

Time

Temp

Current Conditions

Wind Direction

Wind Strength

Road Condition

DRILL PIPE

Category

Thread Type

Grade

OD (mm)

ID (mm)

Linear Mass (kg/m)

No. of Joints

Tool Joint OD (mm)

MUD PUMPS

No.

Make

Stroke Length (mm)

GENERAL EQUIPMENT & SERVICES

Description

Hours

CASING

Category

Make

Grade

OD (mm)

ID (mm)

Linear Mass (kg/m)

No. of Joints

Total Length (m)

KB to CSG Head (m)

KB to CSG Bottom (m)

SHALE SHAKERS

No.

Top Screen

Middle Screen

Middle Screen

Bottom Screen

Size

Changed

New

Size

Changed

New

Size

Changed

New

Size

Changed

New

TOUR 1

SIGNATURE OF DRILLER

RYAN NEWBY

START TIME

00:00

END TIME

08:00

DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

BITS

Bit Number

Size (mm)

IADC Code

Manufacturer

Type

Serial No

Jets (mm)

Depth Out (m)

Depth In (m)

Total Drilled (m)

Hrs Run Today

Cumulative Hrs Run

Entry Date

DULL GRADE

T_i

T_o

MDC

LOC

BRG

Gage (mm)

ODC

Reason Pulled

Total Run (m/hr)

MUD RECORD

Mud Type

Water

Oil

Other

Time

Density (kg/m³)

Funnel Viscosity (s/l)

Fluid Loss (cm³)

pH

Location

Depth (m)

PVT (m³)

MUD MATERIALS ADDED

Product

Amount

Type

SOLIDS CONTROL

Equipment Name

Hours Run

Intake Density (kg/m³)

Over Flow Density (kg/m³)

Under Flow Density (kg/m³)

SAFETY

Safety Topic

MEHL (kdaN)

MACP (kpa)

METRES DRILLED

From (m)

To (m)

D-R-C

RPM

WOB (kdaN)

REDUCED PUMP SPEED

No.

Pressure (kpa)

Strokes/min

Depth (m)

CIRCULATION

Pump

Type

Liner Size (mm)

SPM

Pressure (kpa)

Hours Run

HOLE CONDITION

Hole Drag Up (kdaN)

Hole Drag Down (kdaN)

Torque at Bottom (Nm)

Fill on Bottom (m)

BOILER

No.

Hours Run

pH

Stack Temp (°C)

DEVIATION SURVEYS

Time

Depth (m)

Deviation

Direction

Type

TIME LOG

From

To

Elapsed

Code

Details of Operations in Sequence & Remarks

DRILLING ASSEMBLY

No.

Component

OD (mm)

ID (mm)

Length (m)

BITS

Bit Number

Size (mm)

IADC Code

Manufacturer

Type

Serial No

Jets (mm)

Depth Out (m)

Depth In (m)

Total Drilled (m)

Hrs Run Today

Cumulative Hrs Run

Entry Date

DULL GRADE

T_i

T_o

MDC

LOC

BRG

Gage (mm)

ODC

Reason Pulled

Total Run (m/hr)

MUD RECORD

Mud Type

Water

Oil

Other

Time

Density (kg/m³)

Funnel Viscosity (s/l)

Fluid Loss (cm³)

pH

Location

Depth (m)

PVT (m³)

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