

15-856

OCD Hobbs

HOBBS OCD

APR 25 2016

Form 3160-3
(March 2012)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

| | | |
|---|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM63994 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name |
| 2. Name of Operator Devon Energy Production Company, L.P. (6137) | | 7. If Unit or CA Agreement, Name and No. (313306) |
| 3a. Address 333 West Sheridan Avenue Oklahoma City, OK 73102-5010 | 3b. Phone No. (include area code) 405.228.7203 | 8. Lease Name and Well No. Boundary Raider 6 Fed 1H |
| 4. Location of Well (Report location clearly and in accordance with any State requirements) At surface 200 FNL & 1650 FEL, Unit B Sec. 7 At proposed prod. zone 330 FNL & 1980 FEL, Lot 2 Sec. 6 PP: 354 FSL & 1980 FEL | | 9. API Well No. 30-025-48182 |
| 10. Field and Pool or Exploratory SAND DUNES; B5 (3800) | | 11. Sec. T. R. M. or Blk. and Survey or Area Sec. 7 T23S 32E |
| 14. Distance in miles and direction from nearest town or post office* Approximately 20 miles NE of Malaga, NM | | 12. County or Parish Lea County |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) See attached map | | 13. State NM |
| 16. No. of acres in lease NMNM63994 - 1,020.63 ac | | 17. Spacing Unit dedicated to this well 159.71 ac |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map | | 20. BLM/BIA Bond No. on file CO-1104; NBM-000801 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3534.1' GL | | 22. Approximate date work will start* 4/10/2014 |
| | | 23. Estimated duration 45 days |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

| | | |
|-------------------|--|--------------------|
| 25. Signature | Name (Printed/Typed) Trina C. Couch | Date 11/25/2014 |
|-------------------|--|--------------------|

| | | |
|--|---------------------------------|---------------------|
| Approved by (Signature) /s/ George MacDonell | Name (Printed/Typed) | Date APR 19 2016 |
| Title FIELD MANAGER | Office CARLSBAD FIELD OFFICE | |

The NMOCD Gas Capture Plan notice has been posted on the web site under Announcements/Notice to Operators. A copy of the GCP form is included with the notice and is also in the Forms section under Unnumbered forms. Please submit accordingly in a timely manner.

Carlsbad Controlled Water Basin

or equitable title to those rights in the subject lease which would entitle the applicant to
APPROVAL FOR TWO YEARS

for any person knowingly and willfully to make to any department or agency of the United matter within its jurisdiction.

*(Instructions on page 2)

K2
08/25/16

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 25 2016

Devon Energy, Boundary Raider 6 Fed 1H

1. Geologic Formations

| | | | |
|---------------|---------|-------------------------------|-----|
| TVD of target | 10,396' | Pilot hole depth | N/A |
| MD at TD: | 15,300' | Deepest expected fresh water: | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* |
|--|------------------------|--|----------|
| RUSTLER | 837 | Barren | |
| TOP SALT | 970 | Barren | |
| BASE SALT | 4,280 | Barren | |
| DELAWARE | 4,580 | Oil | |
| CHERRY CANYON | 5,658 | Oil | |
| BRUSHY CANYON | 7,065 | Oil | |
| BONE SPRING | 8,435 | Oil | |
| 1ST BONE SPRING SAND | 9,560 | Oil | |
| KOP | 9,818 | Oil | |
| 2ND BONE SPRING SAND | 10,210 | Oil | |
| 2nd Bone Spring A sand Target (0 feet Vertical section) | 10,390 | Oil | |
| LANDING POINT (END OF CURVE) | 10,396 | Oil | |
| TD HORIZONTAL HOLE (END OF WELL) | 10,350 | Oil | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Boundary Raider 6 Fed 1H

2. Casing Program

| Hole Size | Casing Interval | | Csg. Size | Weight (lbs) | Grade | Conn | SF Collapse | SF Burst | SF Tension |
|---------------------------|-----------------|---------|-----------|--------------|-------|------|-------------|----------|--------------------|
| | From | To | | | | | | | |
| 17.5" | 0 | 1,000' | 13.375" | 48 | H-40 | STC | 1.67 | 2.66 | 2.76 |
| 12.25" | 0 | 4,600' | 9.625" | 40 | J-55 | LTC | 1.22 | 1.83 | 2.26 |
| 8.75" | 0 | 15,300' | 5.5" | 17 | P-110 | BTC | 4.76 | 1.20 | 1.40 |
| BLM Minimum Safety Factor | | | | | | | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Does casing meet API specifications? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

Devon Energy, Boundary Raider 6 Fed 1H

3. Cementing Program

| Casing | # Sks | Wt. lb/gal | H ₂ O gal/sk | Yld ft/sack | 500# Comp. Strength (hours) | Slurry Description |
|--------|-------------------|------------|-------------------------|-------------|-----------------------------|--|
| Surf. | 410 | 13.5 | 9.07 | 1.72 | 12 | Lead: Class C Cement + 4% Bentonite Gel + 0.125 lbs/sack Poly-E-Flake |
| | 560 | 14.8 | 6.32 | 1.33 | 7 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| Inter. | 980 | 12.9 | 9.81 | 1.85 | 17 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 430 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| Prod. | 780 | 12.5 | 10.86 | 1.96 | 30 | 1 st Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake |
| | 1420 | 14.5 | 5.31 | 1.2 | 25 | 1 st Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite |
| | DV/ECP Tool 5000' | | | | | |
| | 100 | 11 | 14.81 | 2.55 | 22 | 2 nd stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake |
| | 120 | 14.8 | 6.32 | 1.33 | 6 | 2 nd stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |

See
COA

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

| Casing String | TOC | % Excess |
|---------------|---|----------|
| Surface | 0' | 100% |
| Intermediate | 0' | 75% |
| Production | 1 st Stage = 5000' / 2 nd Stage = 3600' | 25% |

Devon Energy, Boundary Raider 6 Fed 1H

4. Pressure Control Equipment

| | |
|---|--|
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. |
|---|--|

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Type | ✓ | Tested to: |
|--|---------|------------------|------------|---|-------------------------|
| 12-1/4" | 13-5/8" | 3M | Annular | x | 50% of working pressure |
| | | | Blind Ram | | 3M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |
| 8-3/4" | 13-5/8" | 3M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 3M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |
| | | | Annular | | |
| | | | Blind Ram | | |
| | | | Pipe Ram | | |
| | | | Double Ram | | |
| | | | Other* | | |

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

| | |
|---|---|
| Y | Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. |
|---|---|

Devon Energy, Boundary Raider 6 Fed 1H

See
COA

| | |
|---|---|
| | |
| Y | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. |
| Y | Are anchors required by manufacturer? |
| Y | <p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <p>Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.</p> <ul style="list-style-type: none"> Wellhead will be installed by FMC's representatives. If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. FMC representative will install the test plug for the initial BOP test. FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. <p>After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.</p> <p>After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.</p> <p>The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.</p> |

See
COA

Devon Energy, Boundary Raider 6 Fed 1H

| | |
|--|--|
| | Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns |
| | See attached schematic. |

5. Mud Program

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss |
|--------|---------|-----------------|--------------|-----------|------------|
| From | To | | | | |
| 0 | 1,000' | FW Gel | 8.6-8.8 | 28-34 | N/C |
| 1,000' | 4,600' | Saturated Brine | 10.0-10.2 | 28-34 | N/C |
| 4,600' | 15,300' | Cut Brine | 8.5-9.3 | 28-34 | N/C |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| x | Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No Logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain |
| | Coring? If yes, explain |

| Additional logs planned | Interval |
|-------------------------|-------------------------|
| Resistivity | Int. shoe to KOP |
| Density | Int. shoe to KOP |
| X CBL | Production casing |
| X Mud log | Intermediate shoe to TD |
| PEX | |

Devon Energy, Boundary Raider 6 Fed 1H

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 4678 psi |
| Abnormal Temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

See COA
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

| | |
|---|-------------------|
| N | H2S is present |
| Y | H2S Plan attached |

8. Other facets of operation

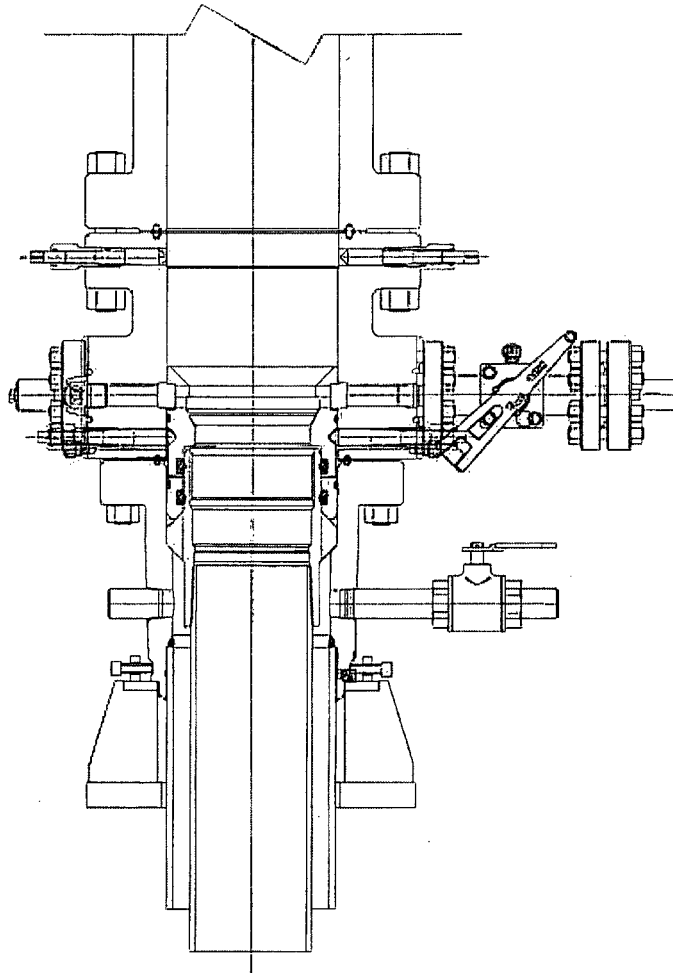
Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe

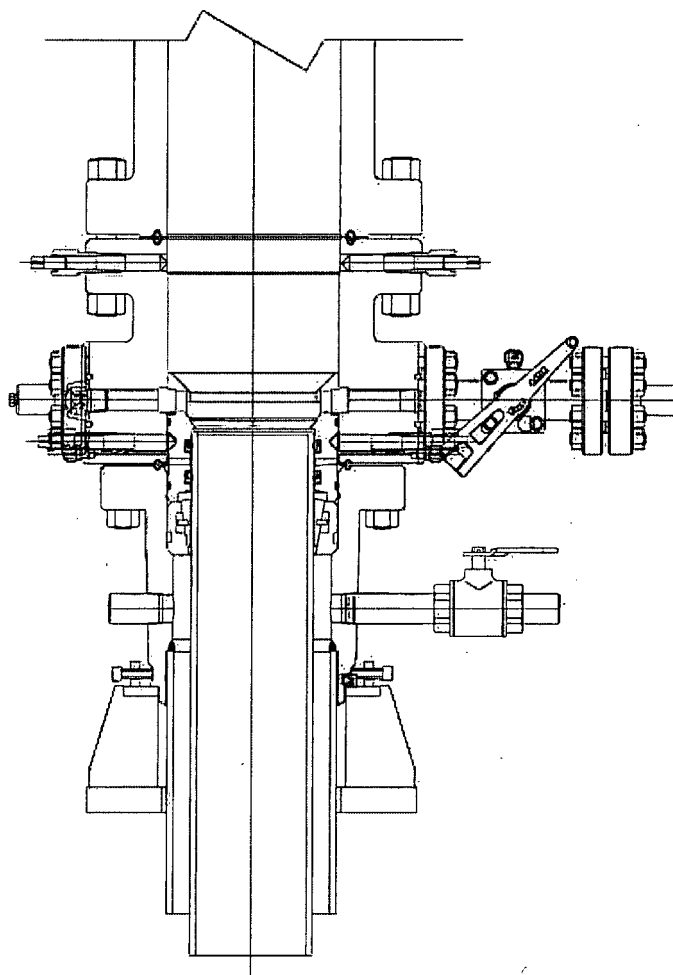


PRIMARY MODE

DEVON ENERGY
ARTESIA
S.E.N.M
13 3/8 X 9 5/8

QUOTE LAYOUT
 F18648
 REF: DM100161737
 DM100151315

| PRIVATE AND CONFIDENTIAL THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING AND MUST BE RETURNED UPON DEMAND. MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES DESIGN AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. | REVISIONS | DESCRIPTION | DESIGNED BY | DATE | FMC Technologies DRAWING NUMBER DM100161771-2A |
|--|------------|--|-------------------------------|----------|--|
| | A 05-08-13 | SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1, SOW, DEVON ENERGY, ODESSA | K. VLI | 05-08-13 | |
| | B 1-22-14 | | DRAFTING REVIEW Z. MARQUEZ | 05-08-13 | |
| | C 5-13-14 | | DESIGN REVIEW K. TAHA | 05-08-13 | |
| | | | APPROVED BY R. HAMILTON | 05-08-13 | |



CONTINGENCY MODE

DEVON ENERGY

ARTESIA

S.E.N.M

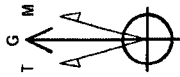
13 3/8 X 9 5/8

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

| | | | | | | | | | |
|--|--|-----------|-------------|--|-------------------------------|---|--------------------------------------|--|----------------------------------|
| PRIVATE AND CONFIDENTIAL | | REVISIONS | DESCRIPTION | | | DM100161771-2B | | | |
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| | | B | 1-22-14 | | | | | | |
| | | C | 5-13-14 | | | | | | |
| | | | | | | | | | |
| MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES' DESIGN AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. | | | | | | | | | |

DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: Boundary Raider 6 Fed
 Well: 1H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.33°
 Magnetic North: 7.08°
 Magnetic Field
 Strength: 48288.8snT
 Dip Angle: 60.17°
 Date: 10/6/2014
 Model: BSGM2014

devon

PROJECT DETAILS: Lea County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

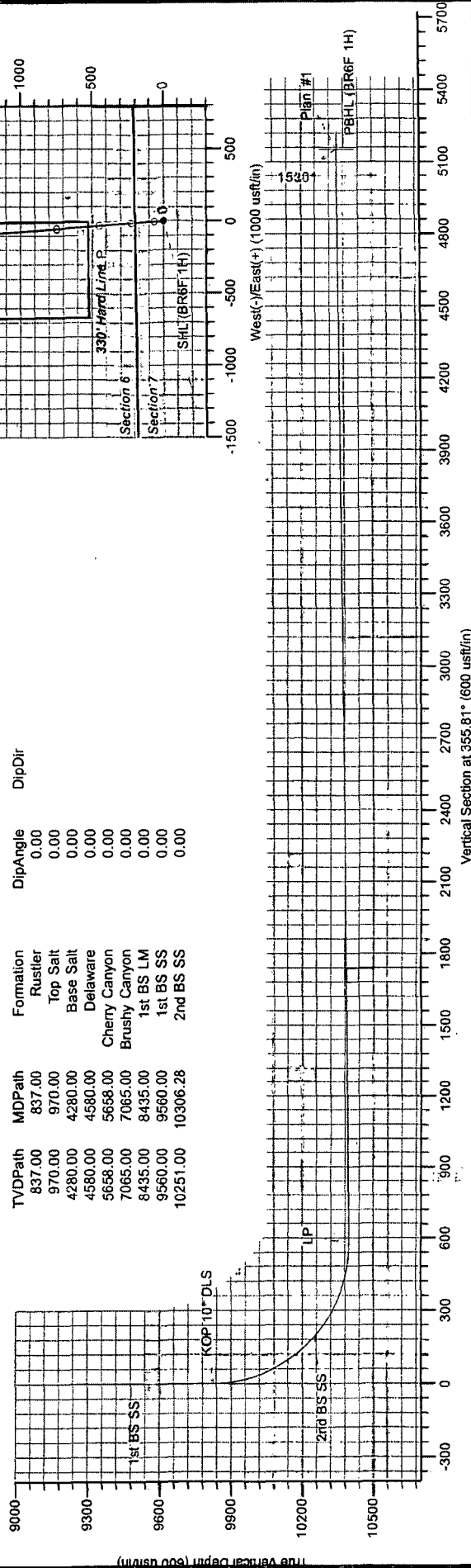
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|----------------|----------|---------|---------|-----------|-----------|------------------|-------------------|
| SHL (BR6F 1H) | 0.00 | 5136.10 | -376.67 | 482786.34 | 733702.00 | 32° 19' 32.574 N | 103° 42' 38.061 W |
| PBHL (BR6F 1H) | 10350.00 | 5136.10 | -376.67 | 487922.44 | 733325.33 | 32° 20' 23.419 N | 103° 42' 42.103 W |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Annotation |
|-----|----------|-------|--------|----------|---------|---------|-------|--------|---------|-------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 9823.07 | 0.00 | 0.00 | 9823.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP 10° DLS |
| 3 | 10728.84 | 90.58 | 355.81 | 10396.00 | 577.17 | -42.33 | 10.00 | 355.81 | 578.72 | LP |
| 4 | 15300.24 | 90.58 | 355.81 | 10350.00 | 5136.10 | -376.67 | 0.00 | 0.00 | 5149.89 | TD |

FORMATION TOP DETAILS

| TVDPPath | MDPath | Formation | DipAngle | DipDir |
|----------|----------|---------------|----------|--------|
| 837.00 | 837.00 | Rustler | 0.00 | |
| 970.00 | 970.00 | Top Salt | 0.00 | |
| 4280.00 | 4280.00 | Base Salt | 0.00 | |
| 4580.00 | 4580.00 | Delaware | 0.00 | |
| 5658.00 | 5658.00 | Cherry Canyon | 0.00 | |
| 7065.00 | 7065.00 | Brushy Canyon | 0.00 | |
| 8435.00 | 8435.00 | 1st BS LM | 0.00 | |
| 9560.00 | 9560.00 | 1st BS SS | 0.00 | |
| 10251.00 | 10306.28 | 2nd BS SS | 0.00 | |



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (H/OH)
 Boundary Raider 6 Fed
 Created By: Brady Deaver
 Date: 13/38, October 06 2014
 Approved: _____
 Date: _____