| OCD Hob | bs | | F | JTS-16- | 40 | |
|--|--|---|---|--|--|---------------------------------|
| CONFIDE | ENTIAL | HOBBS | s 2016 | 5 | | |
| Form 3160 - 3 (March 2012) | | AUG | EN | ED FORM OMB Expires | (APPROVED No. 1004-0137 October 31, 201 | 4 |
| UNITED STA DEPARTMENT OF TH BUREAU OF LAND M | TES IE INTERIOR MANAGEMENT | REC | ;EIV | 5. Lease Serial No. SHL:NMNM66272 | Lateral: NMNM 2;BHL:NMN | 92781, NMNM69596 M66271 |
| APPLICATION FOR PERMIT | TO DRILL OF | R REENTER | | 6. If Indian, Allote | e or Tribe Na | me |
| Ia. Type of work: | ENTER | | | 7. If Unit or CA Age NMNM094480X | well No | e and No. |
| lb. Type of Well: Oil Well Gas Well Other | √ Si | ngle Zone Multi | ple Zone | GAUCHO UNIT 6 | 6H | 7000 |
| 2. Name of Operator Devon Energy Production Compan | iy, L.P. 013 | シ | | 30-026- | 4338 | 86 |
| 3a. Address 333 W. Sheridan Oklahoma City, OK 73102 | 3b. Phone No 405.552.71 |). (include area code) 848 | | 10. Field and Pool, or WC-025 G-06 S22 | Exploratory 23421L; BS | (97922) |
| 4. Location of Well (Report location clearly and in accordance w | ith any State requiren | ients.*) | | 11. Sec., T. R. M. or | Blk. and Surve | y or Area |
| At surface 437 FNL & 1028 FEL, Unit A | PP: 750 FN | L & 1217 FEL | | SHL: Sec 19, T22 BHL: Sec 30, T22 | S, R34E S, R34E | |
| At proposed prod. zone 330 FSL & 500 FEL, Unit P 14. Distance in miles and direction from nearest town or post office | * | | | 12. County or Parish | 1 | 3. State |
| Approximately 24 miles E of Jal, NM | | | | LEA | 1 | M |
| Distance from proposed* See attached map location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No. of a NMNM66272, NMNM92781; NMNM69596; NMNM66271; | acres in lease 120ac 960 ac 830.64 ac 80 ac | 17. Spaci 320 ac | ng Unit dedicated to this | s well | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Propose TVD: 11,3 | 19. Proposed Depth 20 TVD: 11,391' MD: 21,167' C | | LM/BIA Bond No. on file 1104; NMB-000801 | | 1.01 |
| Elevations (Show whether DF, KDB, RT, GL, etc.) 3,467.1' GL | 22. Approxi 01/22/201 | mate date work will sta 8 | urt* | Estimated durati 45 Days | on | |
| | 24. Attac | chments To Be Pa | d Drilled | With Gaucho Unit 99 | 9H | |
| he following, completed in accordance with the requirements of O 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sys SUPO must to filed with the appropriate Forest Service Office | hishore Oil and Gas stem Lands, the). | Order No. I, must be a Bond to cover Item 20 above). Operator certifi Such other site BLM. | ttached to the operation cation specific in | his form: ons unless covered by a formation and/or plans | n existing bo as may be req | nd on file (see uired by the |
| 25. Signature | Name | (Printed/Typed) H. Cook | | | Date 21 | 19/20 |
| itle Regulatory Compliance Professional | | | | | | N |
| sproved by (Signature)s/George MacDonell | Name | (Printed/Typed) | | | AUG | 1 - 2016 |
| itle FIELD MANAGER | Office | CARLSBA | DFIELD | OFFICE | | |
| pplication approval does not warrant or certify that the applicant onduct operations thereon. conditions of approval, if any, are attached. | holds legal or equi | table title to those right | nts in the su | ibject lease which would APPROV | entitle the ap | TWO YE |
| itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i tates any false, fictitious or fraudulent statements or representation | t a crime for any p ns as to any matter v | erson knowingly and vithin its jurisdiction. | willfully to | make to any department | or agency of | the United |
| (Continued on page 2) | ŀ | 19/19/16 | K | *(ln: | structions | on page 2) |
| | | | - | 0.0 | NM O | L CONSE |

Approval Subject to General Requirements & Special Stipulations Attached

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1. Geologic Formations

| TVD of target | 11,391' | Pilot hole depth | N/A |
|---------------|---------|-------------------------------|------|
| MD at TD: | 21,167' | Deepest expected fresh water: | 300' |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* |
|---------------|------------------------|--|----------|
| Rustler | 1590 | | |
| Top of Salt | 2030 | | li, |
| Base of Salt | 5091 | | * |
| Delaware | 5158 | | |
| LWR Brushey | 8360 | | |
| Bone Spring | 8551 | | |
| 1st BSPG Sand | 9570 | | |
| 2nd BSPG Sand | 10189 | | |
| 3rd BSPG Lime | 10571 | | |
| 3rd BSPG Sand | 11093 | | |
| Wolfcamp | 11398 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| LIEL DUDING | | | |

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

| Hole | Casin | g Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF |
|--------|--------|--------------|---------|--------|-----------|--------------|--------------|-------|--------------------|
| Size | From | То | Size | (lbs) | | EN SAL | Collap se | Burst | Tension |
| 17.5" | 0 | 1,650' | 13.375" | 54.5 | J-55 | BTC | 1.64 | 3.68 | 10.73 |
| 12.25" | 0 | 4,300' | 9.625" | 40 | J-55 | BTC | 1.15 | 3.43 | 4.69 |
| | 4,300' | 5,200. 5,000 | 9.625" | 40 | HCK-55 | BTC | 1.57 | 4.63 | 6.07 |
| 8.75" | 0 | 21,167' | 5.5" | 17 | P-110RY | BTC | 1.79 | 2.55 | 3.68 |
| | 1. | | | BLM | Minimum S | afety Factor | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |

2. Casing Program SeeCOA

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? | 1 |
| 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? | - Section of |
| 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? | |

3. Cementing Program

| Casing | # Sks | Wt. lb/ gal | H ₂ 0 gal/sk | Yld ft3/ sack | 500# Comp. Strength (hours) | Slurry Description |
|------------------|-------|-------------------|----------------------------|---------------------|--------------------------------------|---|
| 13-3/8" | 930 | 13.5 | 9.07 | 1.72 | 12 | Lead: Class C Cement + 4% Bentonite Gel + 0.125 lbs/sack Poly-E-Flake |
| Surface | 550 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 9-5/8" Inter. | 1060 | 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 Ibs/sack Poly-E-Flake |
| | 430 | 14.8 | · 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| | 890 | 12.9 | 9.81 | 1.85 | 17 | 1 st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| 9-5/8" | 220 | 14.8 | 6.32 | 1.33 | 6 | 1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake |
| Inter. | | | | | D | V Tool = 1700' |
| Stage | 220 | 12.9 | 9.81 | 1.85 | 17 | 2 nd Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 140 | 14.8 | 6.32 | 1.33 | 6 | 2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake |
| 5-1/2" | 560 | 10.9 | 20.6 | 3.31 | 24 | Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E- Flake + 0.5 lb/sk D-Air 5000 |
| Proa. | 2730 | 14.5 | 5.31 | 1.2 | 25 | 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 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.

See COA

| Casing String | тос | % Excess |
|--|-------------|----------|
| 13-3/8" Surface | 0' | 100% |
| 9-5/8" İntermediate | 0' | 75% |
| 5-1/2" Production Casing Single Stage Option | 4900' 4800' | 25% |

4. Pressure Control Equipment

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

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | T | уре | - | Tested to: |
|---|-------------------|------------------------|-------------|---------|---|-------------------------|
| | | | An | nular | X | 50% of working pressure |
| · · · · · · · · · · · · · · · · · · · | | | Bline | d Ram | | |
| 12-1/4" | 13-5/8" | 5M | Pipe | Ram | | |
| | | | Doub | le Ram | X | 5M |
| | | | Other* | 12.3.2. | | |
| | | | An | nular | X | 50% testing pressure |
| | | | Blind Ram | | | |
| 0 2/11 | 8-3/4" 13-5/8" 5M | | 5M Pipe Ram | | | |
| 0-3/4 | | | Double Ram | | X | 5M |
| | | | Other * | | | |
| | | | An | nular | X | |
| | | | Blin | d Ram | | |
| | | | Pipe | Ram | | |
| N | | | Doub | le Ram | X | |
| | | | 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, Gaucho Unit 66H

| | A variance is requested for the use of a flexible choke line from the BOP to Choke |
|---|--|
| Y | Manifold. See attached for specs and hydrostatic test chart. |
| | Y Are anchors required by manufacturer? |
| Y | A multibowl wellhead may be 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. |
| | Devon proposes the option of using a multi-bowl wellhead assembly. 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 5000 (5M) psi. Wellhead will be installed by vendor's representatives. If the welding is performed by a third party, the vendor's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal |
| | Vendor representative will install the test plug for the initial BOP test. Vendor 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. |
| | After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 5,000 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. After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPI system with a minimum rating of 5M will already be installed on the wellhead. |
| | The pipe rams will be operated and checked each 24 hour period and each time the drill pip 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 5,000 psi WP. |
| | 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 |

Devon Energy, Gaucho Unit 66H

turns.

See attached schematic.

5. Mud Program See COA

| Depth | | Туре | Weight (ppg) | Viscosity | Water Loss | |
|--------------------------|----------------------------------|-----------------|-----------------|-----------|------------|--|
| From | То | | A Design of the | | | |
| 0 | 1,650' | FW Gel | 8.6-8.8 | 28-34 | N/C | |
| 1,650' | 5,200° 5,000 ' | Saturated Brine | 10.0-10.2 | 28-34 | N/C | |
| 5,200 ' 5,00' | 21,167' | 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 | PVT/Pason/Visual Monitoring |
|---|-----------------------------|
| of fluid? | |

6. Logging and Testing Procedures

| Logg | ing, Coring and Testing. |
|-------|--|
| X | Will run GR/CNL fromTD to surface (horizontal well - vertical portion of hole). Stated |
| C. | logs run will be in the Completion Report and submitted to the BLM. |
| 12.12 | No Logs are planned based on well control or offset log information. |
| 1816 | Drill stem test? If yes, explain |
| | Coring? If yes, explain |

| Additional logs planned | | Interval | | |
|-------------------------|-------------|-------------------------|--|--|
| | Resistivity | Int. shoe to KOP | | |
| | Density | Int. shoe to KOP | | |
| Х | CBL | Production casing | | |
| Х | Mud log | Intermediate shoe to TD | | |
| 12 | PEX | | | |

7. Drilling Conditions

Devon Energy, Gaucho Unit 66H

| Condition | Specify what type and where? | |
|----------------------------|------------------------------|--|
| BH Pressure at deepest TVD | 5509 psi | |
| Abnormal Temperature | No | |

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

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.

| Ν | 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

<u>x</u> Directional Plan Other, describe

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P. Gaucho Unit 66H

- 1. Drilling Nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated filings will be in operable condition to withstand a minimum of 5000psi working pressure.
- 4. All fittings will be flanged.

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- 5. A fill bore safety valve tested to a minimum of 5000psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Multibowl Wellhead Manufactor

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WARFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS GOLINENT SHALL RE CONSIDERED FAC TECHNOLOGICY DESION AND THAT ICENTICAL ARTICLES OF AVITYS THEREOF SHALL NOT BE MARFACTURED FOR THE USE OF MARFACTURER OF MAY THERE REPSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FAC TECHNOLOGIES

SURFACE WELLHEAD LAYOUT UNIHEAD, UH-1,SOW, DEVON ENERGY, ODESSA

FMC Technologies Z. MARQUEZ 05-08-13 CESICN REVIEW 05-08-13 DRAWING NUMBER R. HAMILTON 05-08-13 DMI00161771-2A

| | | Midwes | st Hose | |
|---------------------------|---------------------------------------|------------------------|--|----------------------|
| | & Specialty, Inc. | | | |
| IN | INTERNAL HYDROSTATIC TEST CERTIFICATE | | | |
| Custom | er: | CACTUS | Customer P.O. Number: RE-CERT M5322&M1075 | |
| | | HOSE SPECI | FICATIONS | |
| Type: | Rotary/Vib CHOKE HC | rator Hose / API 7K | | Hose Length: 35 FEE1 |
| I.D. | | INCHES | 0.D. | INCHES |
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| 5,00 | O PSI | 10,000 | PSI | N/A PSI |
| D. I.N. | | COUR | LINGS | In the test starts |
| Part Nu | nber | Stem Lot Nu | mber | Ferrule Lot Number |
| Type of | Coupling: | | Die Size: | |
| SWAGE-IT | | | | |
| | | PROC | EDURE | |
| | Hose assembl | y pressure tested w | vith water at ambie | ent temperature. |
| | TIME HELD AT | TEST PRESSURE | ACTUAL | BURST PRESSURE: |
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| Comments: ASSET# M5322 | | | | |
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| Date: | | Tested: | | hppiored. |

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March 17, 2013

DATE: 03/18/13 10:10AM

approximited and a second & Specialty, Inc. Midwest Hose

USA 8300 SW 15th Oklahoma City OK Cactus Drilling Co., LLC ATTN: John Andrade Ship To

Cactus Drilling Co., LLC ATTN: Accounts Payable 8300 SW 15th Street Oklahoma City OK 73128-9594

Bill To

USA

Customer PO: Re-Cert M5322 & M1075 Cust phone: 577-5347 Written by: ESPAREMAN

1. Purchase Order Number and Rig # Required 2. Proof of Delivery Required INVOICE REQUIREMENTS:

Received By:_____ Date Received: _____

Print Name: Work Phone #:

| DT # . 00104103 | Thternal Hydrost Your item H is: M53 | IN ITEM / |
|---|---|-----------|
| Picked by: BBALAK Shipped by: ESPARKMAN | ratic Test Labor 22 & M1075 | |
| | 20 | UOM |
| | 8 | QUANTITY |
| | | QUANTITY |
| AMOUNT FREIGHT/INSUR/HANDLE SALES TAX | Unit Price: 500.00 | QUANTITY |
| 1,000.00 0.00 \$83.75 | 5xt. Price: 1,000.00 | QUANTITY |

Ouestions? Phone: (800) 375-2358

TOTAL

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PACKING LIST

Ship From Midwest Home & Specialty, Inc. 3312 S I-35 Service Road Oklahoma City OK 73129 USA

Mark Number: John Andrade

Packing List #:00194103

PAGE:

1 OF 1