Form 3160-3 (March 2012)

Carisbad Field Office OCD Hobbs

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

or Tribe Name

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| 5. | Lease | Serial | NO. , |
|-----|-------|--------|-------|
| NMN | IM09 | 7151 | |

| PPLICATION FOR PERMIT TO DRILL OR REENTER | dian. Allotee |
|---|---------------|
|---|---------------|

| APPLICATION FOR PERIMIT TO | DRILL OF | NEENIER | | | • |
|--|-----------------------------------|---|---|--|----------------------------------|
| la. Type of work: DRILL REENTE | R | | | 7 If Unit or CA Agr | reement, Name and No. |
| lb. Type of Well: Oil Well Gas Well Other | Si | ngle Zone Mul | tiple Zone | 8. Lease Name and FLAGLER 8 FED | Well No. 722/99) |
| 2. Name of Operator DEVON ENERGY PRODUCTION COM | IPANY LP | 6137) | | 9. API Well No. | 45004 |
| 3a. Address 333 West Sheridan Avenue Oklahoma City Ok | 3b. Phone No (405)552-6 | (include area code) 5571 | | 10. Field and Pool, or | |
| 4. Location of Well (Report location clearly and in accordance with an At surface SESW / 700 FSL / 1355 FWL / LAT 32.13978 | /LONG -10 | 03.5984612 | • | 11. Sec., T. R. M. or SEC 8 / T25S / R: | Blk. and Survey or Area |
| At proposed prod. zone NENW / 330 FNL / 1605 FWL / LA 14. Distance in miles and direction from nearest town or post office* | 32.15146 | 11 / LONG -103.5 | 97652 | 12. County or Parish | 13. State |
| The Distance of Miles and Green Control House Control of post Sales | | • | , | LEA | NMOCD |
| 15. Distance from proposed* location to nearest 700 feet property or lease line, ft. (Also to nearest drig, unit line, if any) | 16. No. of a 520 | acres in lease | 160 | ng Unit dedicated to the | JUL 1 9 2018 |
| Distance from proposed location* to nearest well, drilling, completed. 1473 feet applied for. on this lease, ft. | 19. Propose 9575 feet | d Depth / 14104 feet | 20. BLM FED: C | BIA Bond No. on file O1104 | RECEIVED. |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3462 feet | 22. Approxi 02/15/201 | mate date work will s | start* | 23. Estimated durati 45 days | on |
| | 24. Atta | chments | | - | |
| 3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). | | BLM. | | formation and/or plans | as may be required by the |
| 25. Signature (Electronic Submission) | | (Printed Typed) ecca Deal / Ph: (4 | 05)228-842 | 29 | Date 03/12/2018 |
| Fithe Regulatory Compliance Professional | | | | · | |
| Approved by (Signature) (Electronic Submission) | | (Printed/Typed) Layton / Ph: (575 | 5)234-5959 | | Date 07/18/2018 |
| Title Assistant Field Manager Lands & Minerals | Office CAR | : LSBAD | | | |
| Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached. | s legal or equ | itable title to those ri | ghts in the su | bject lease which would | l entitle the applicant to |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as | rime for any p to any matter v | person knowingly and within its jurisdiction. | d willfully to | | |
| (Continued on page 2) SCP Flex 07/19/18 | | 491 | MANS | KZ*(Ins | structions on page 2) |
| APPROV | ED WI | O7/18/2018 | 10/10 | Reg | structions on page 2) 1/18 WSL |

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3) (Form 3160-3, page 2)

Approval Date: 07/18/2018

Additional Operator Remarks

Location of Well

1. SHL: SESW / 700 FSL / 1355 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.13978 / LONG: -103.5984612 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 330 FSL / 1605 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.13876 / LONG: -103.597754 (TVD: 9364 feet, MD; 9420 feet)

BHL: NENW / 330 FNL / 1605 FWL / TWSP: 25S / RANGE: 33E / SECTION: 8 / LAT: 32.1514611 / LONG: -103.597652 (TVD: 9575 feet, MD: 14104 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934 Email: pperez@blm.gov

(Form 3160-3, page 3)

Approval Date: 07/18/2018

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior. Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

(Form 3160-3, page 4)

Approval Date: 07/18/2018



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Rebecca Deal Signed on: 03/08/2018

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City State: OK Zip: 73102

Phone: (405)228-8429

Email address: Rebecca.Deal@dvn.com

Field Representative

Representative Name: Travis Phibbs

Street Address: 6488 Seven Rivers Hwy

City: Artesia State: NM Zip: 88210

Phone: (575)748-9929

Email address: travis.phibbs@dvn.com



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



APD ID: 10400028171 Submission Date: 03/12/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Number: 31H

Well Type: OIL WELL Well Work Type: Drill



Show Final Text

Section 1 - General

APD ID:

10400028171

Tie to previous NOS?

Submission Date: 03/12/2018

BLM Office: CARLSBAD .

User: Rebecca Deal

Title: Regulatory Compliance

Professional Is the first lease penetrated for production Federal or Indian? FED

Federal/Indian APD: FED

Lease number: NMNM097151

Lease Acres: 520

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Zip: 73102

Operator City: Oklahoma City

State: OK

Operator Phone: (405)552-6571

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: FLAGLER 8 FED

Well Number: 31H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: UPPER BONE

SPRING SHALE

Well Name: FLAGLER 8 FED Well Number: 31H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 2

Well Class: HORIZONTAL

FLAGLER 8

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 1473 FT

Distance to lease line: 700 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Flagler 8 Fed 31H_C_102 Signed 20180525070236.pdf

Well work start Date: 02/15/2019

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

| | - | | | | | | | | | | | | | | | | | |
|-----|---------|--------------|---------|--------------|----------|-------|---------|-------------------|-------------------|-----------|--------|-------|----------|------------|--------------|-----------|-----|-----|
| | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | DVT |
| SHL | 700 | FSL | 135 | FWL | 25S | 33E | 8 | Aliquot | 32.12978 | 1 | LEA | NEW | NEW | F | NMNM | 346 | 0 | 0 |
| Leg | | | 5 | | | | | SESW | | 106,5984 | | MEXI | MEXI | | 097151 | 2 | | Ì |
| #1 | | | | | <u> </u> | | 1 | <u> </u> | | St2 | | СО | CO | | | | | |
| KOP | 201 | FSL | 160 | FWL | 25S | 33E | 8 | Aliquot | \$2,13840 | b | LEA | NEW | NEW | F | MMMM | - | 902 | 900 |
| Leg | | | 5 | | | | | SESW | 6 | 100.5977 | | | MEXI | | 097151 | 554 | 7 | 2 |
| #1 | | | | | | | | | | 577 | | СО | CO | | | 0 | | |
| PPP | 330 | FSL | 160 | FWL | 25S | 33E | 8 | Aliquot | 32,12876 | 2 | LEA | NEW | NEW | F | NMNM | - | 942 | 936 |
| Leg | | | 5 | | | | | SESW | eri ke e <u>e</u> | 108,5977 | | MEXI | MEXI | | 097151 | 590 | 0 | 4 |
| #1 | | | | | | | | | | 54. | | co | co | | | 2 | | |

Elevation

MD

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Leg 뫔 # Leg EXIT

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Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Number: 31H

ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 2 (FLAGLER 8 FED COM 24H, 37H, FEDERAL 19H, 31H, 15H)

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO JANUARY 30, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS S56'56'27"W, A DISTANCE OF 1823.69 FEET;

THENCE N89'37'27"E A DISTANCE OF 25.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N44'36'58"E A DISTANCE OF 35.35 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO0'22'44"W A DISTANCE OF 269.88 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS N49°43'14"W, A DISTANCE OF 2089.37 FEET:

SAID STRIP OF LAND BEING 330.23 FEET OR 20.01 RODS IN LENGTH, CONTAINING 0.227 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4 330.23 L.F. 20.01 RODS 0.227 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVĖY.

SHEET: 2-2

MADRON SURVEYING,

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797,
HEREBY CERTIFY THAT L. HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY
THAT THIS SURVEY STRUE AND SORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND THAT (THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND
SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 100 OF TEBRUARY 2018

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 5838A

301 SOUTH CANAL (575) 234-3 141 'A⁄RLSBAD

NEW MEXICO



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: FLAGLER 8 FED

Well Type: OIL WELL



APD ID: 10400028171 Submission Date: 03/12/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

operator remove a terrette and a ter

Well Number: 31H

Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

| Formation | | ,,i''. ;;.;. | True Vertical | Measured | | | Producing |
|-----------|-----------------|--------------|---------------|----------|-----------------|-------------------|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | Formation |
| 1 | | 3467 | Ó | Ó | OTHER : Surface | NONE | No |
| 2 | RUSTLER | 2322 | 1145 | 1145 | SANDSTONE | NONE | No |
| 3 | TOP SALT | 1959 | 1508 | 1508 | SALT | NONE | No |
| 4 | BELL CANYON | -1533 | 5000 | 5000 | SANDSTONE | NATURAL GAS,OIL | No |
| 5 | BASE OF SALT | -1533 | 5000 | 5000 | LIMESTONE | NONE | No |
| 6 | CHERRY CANYON | -2573 | 6040 | 6040 | SANDSTONE | NATURAL GAS,OIL | No |
| 7 | BRUSHY CANYON | -4223 | 7690 | 7690 | SANDSTONE | NATURAL GAS,OIL | No |
| 8 | BONE SPRING | -5643 | 9110 | 9110 | SHALE | NATURAL GAS,OIL | Yes |
| 9 | BONE SPRING 1ST | -6549 | 10016 | 10016 | SANDSTONE | NATURAL GAS,OIL | No |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 5000

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 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. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: 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.

Choke Diagram Attachment:

Flagler 8 Fed 31H 3M BOPE CK 20180308094723.pdf

Well Name: FLAGLER 8 FED Well Number: 31H

Flagler_8_Fed_31H_3M_BOPE_CK_20180308094723.pdf

BOP Diagram Attachment:

Flagler_8_Fed_31H_3M_BOPE_CK_20180308094741.pdf

Pressure Rating (PSI): 3M

Rating Depth: 9575

Equipment: BOP/BOPE will be installed per Onshore Oil & Order #2 requirements prior to drilling below 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. BOP/BOPE will be tested by an independent service company per Onshore Oil & Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

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Choke Diagram Attachment:

Flagler_8_Fed_31H_3M_BOPE_CK_20180308094656.pdf

BOP Diagram Attachment:

Flagler_8_Fed_31H_3M_BOPE_CK_20180308094713.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-----------|--------|----------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 17.5 | 13,375 | NEW | API | N | 0 | 1150 | 0 | 1150 | | | 1150 | H-40 | i . | I | 1,12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| L | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 0 | 5000 | 0 | 5000 | - | | 5000 | J-55 | | OTHER - BTC | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| | PRODUCTI ON | 8.75 | 5.5 | NEW | API | Ν | 0 | 14104 | 0 | 9575 | | | 14104 | P- 110 | | OTHER - BTC | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |

Casing Attachments

| Casing Attachments |
|---|
| Casing ID: 1 String Type: SURFACE |
| Inspection Document: |
| Spec Document: |
| Tapered String Spec: |
| Casing Design Assumptions and Worksheet(s): |
| Flagler_8_Fed_31H_Surf_Csg_Ass_20180308094950.pdf |
| Casing ID: 2 String Type: INTERMEDIATE |
| Inspection Document: |
| Spec Document: |
| Tapered String Spec: |
| Casing Design Assumptions and Worksheet(s): |
| Flagler_8_Fed_31H_Int_Csg_Ass_20180308095007.pdf |
| Casing ID: 3 String Type: PRODUCTION Inspection Document: |
| Spec Document: |
| Tapered String Spec: |
| Casing Design Assumptions and Worksheet(s): |
| Flagler_8_Fed_31H_Prod_Csg_Ass_20180308095037.pdf |

Well Number: 31H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Section 4 - Cement

Well Name: FLAGLER 8 FED Well Number: 31H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|---------------------------------|
| SURFACE | Lead | | 0 | 815 | 901 | 1.33 | 14.8 | 1198 | 50 | CLASS C | 0.125 lbs/sack Poly-F- Flake |

| INTERMEDIATE | Lead | 0 | 3950 | 511 | 3.65 | 10.3 | 1864 | 30 | 50:50 POZ | (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake |
|--------------|------|------|------|------|------|------|------|----|-----------|--|
| INTERMEDIATE | Tail | 3950 | 4450 | 306 | 1.33 | 14.8 | 407 | 30 | С | 0.125 lbs/sack Poly-F- Flake |
| PRODUCTION | Lead | 4800 | 9450 | 446 | 3.27 | 9 | 1475 | 25 | TUNED | N/A |
| PRODUCTION | Tail | 9450 | 1410 | 1221 | 1.2 | 14.5 | 1465 | 25 | CLASS H | (50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Well Name: FLAGLER 8 FED Well Number: 31H

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | Н | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|
| 0 | 1150 | WATER-BASED MUD | 8.4 | 9 | | | | 2 | | | |
| 5000 | 1410 4 | WATER-BASED MUD | 8.33 | 9.3 | | | | 12 | | | |
| 1150 | 5000 | SALT SATURATED | 9 | 10.5 | | | | 2 | | | |

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

List of open and cased hole logs run in the well:

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4720

Anticipated Surface Pressure: 2613.5

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Flagler_8_Federal_31H_H2S_Plan_20180312062310.pdf

Well Name: FLAGLER 8 FED Well Number: 31H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Flagler_8_Fed_31H_Dir_Plan_20180308101130.pdf

Other proposed operations facets description:



Other proposed operations facets attachment:

Flagler_8_Fed_31H_AC_Report_20180308101224.pdf

Flagler_8_Fed_31H_Clsd_Loop_20180308101225.pdf

Flagler_8_Fed_31H_MB_Verb_3M_20180308101225.pdf

Flagler_8_Fed_31H_MB_Wellhd_3M_20180308101226.pdf

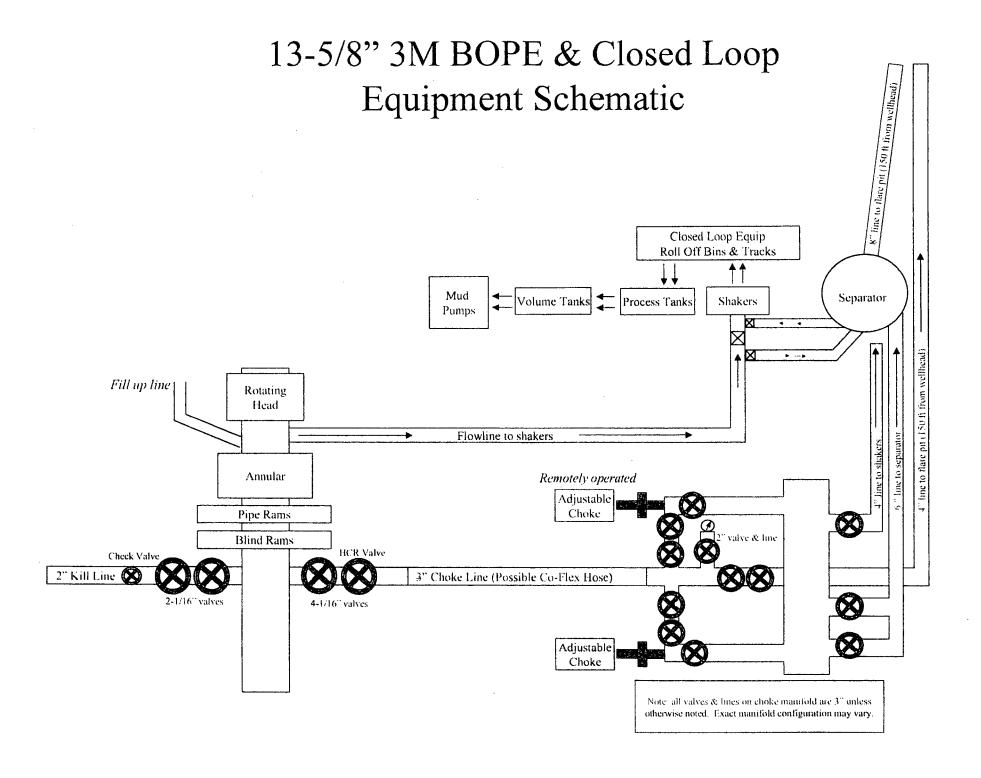
Flagler 8 Fed 31H Spudder Rig Info 20180308101251.pdf

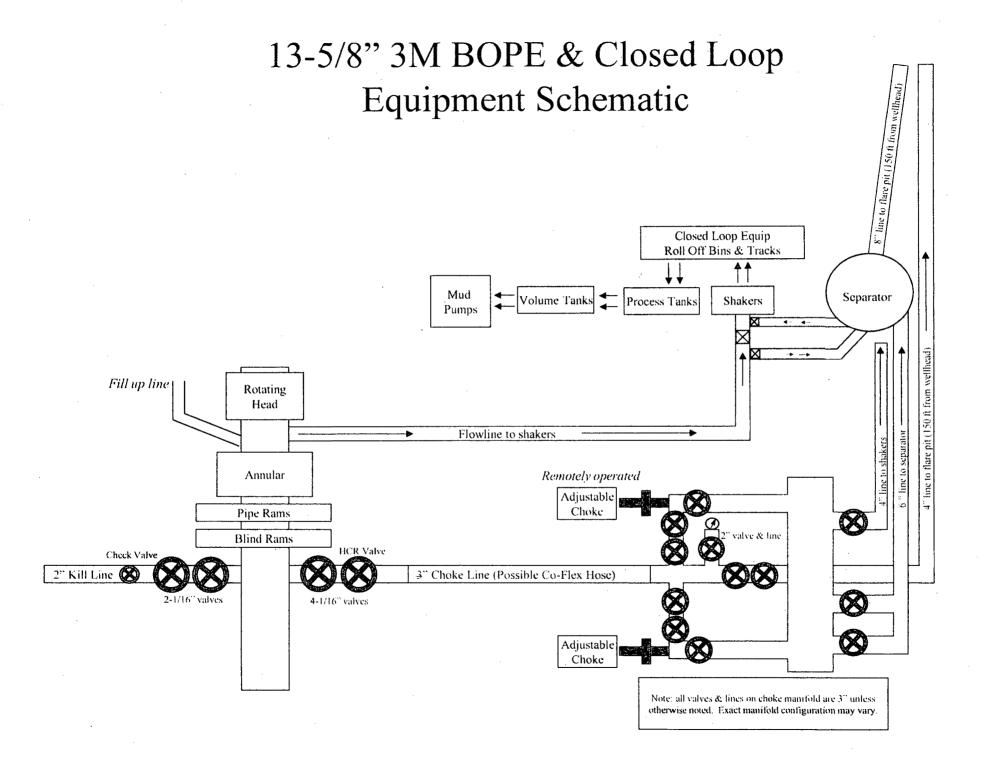
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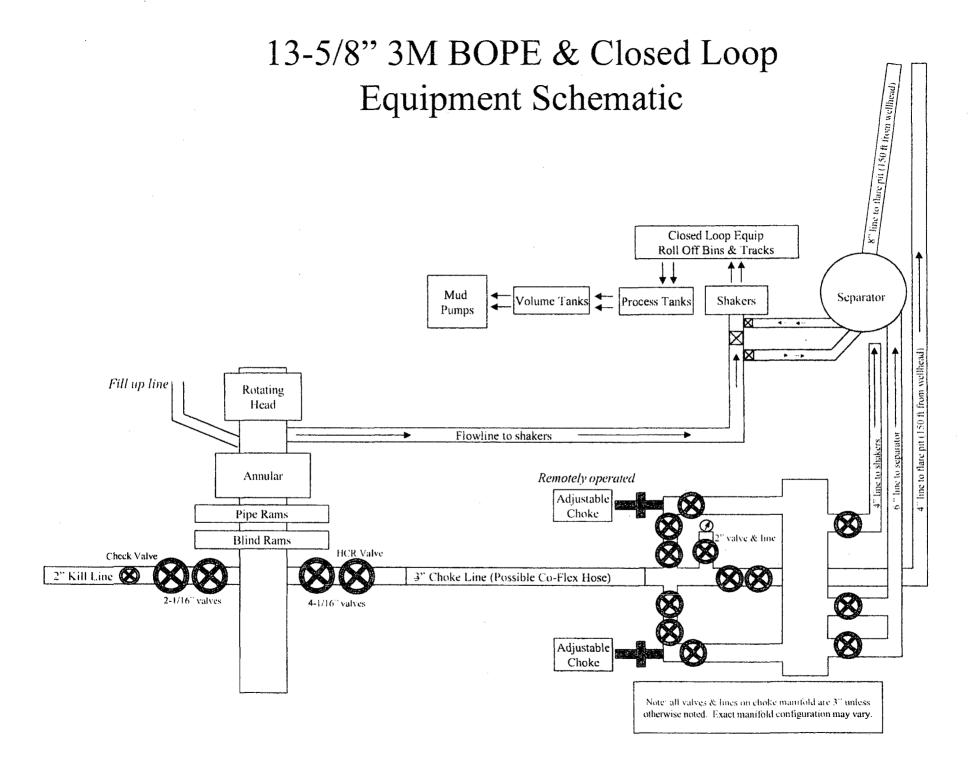
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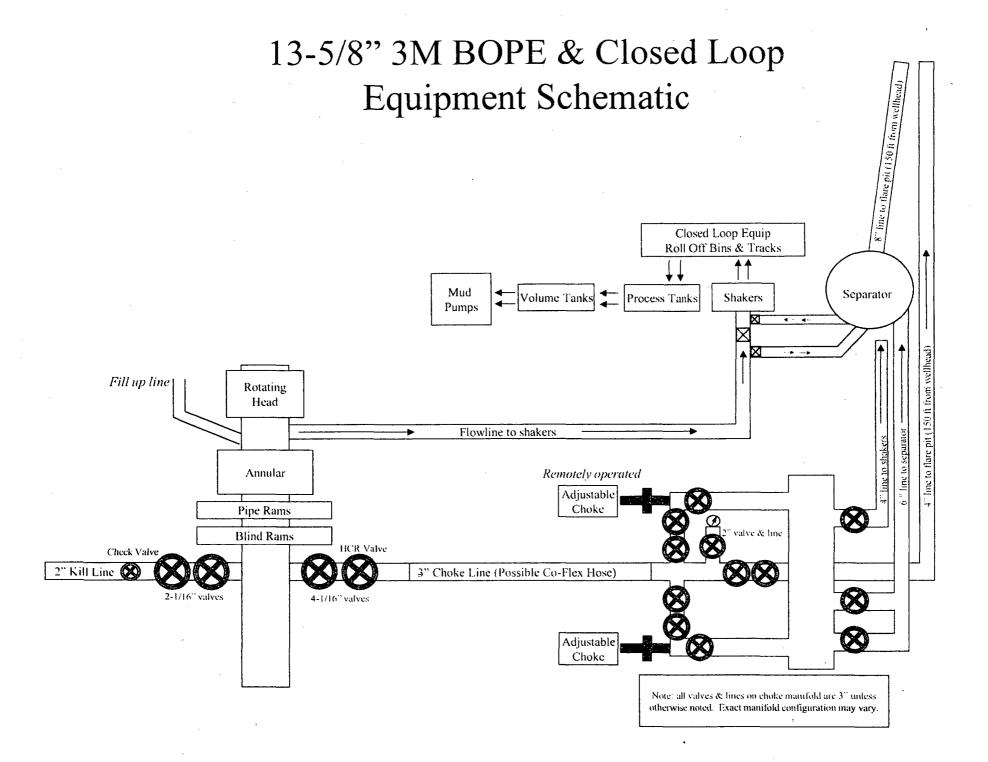
Other Variance attachment:

Flagler_8_Fed_31H_Co_flex_20180308101308.pdf









Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Intermediate Casing Burst Design | | | | | | | | | |
|----------------------------------|-------------------------|---|--|--|--|--|--|--|--|
| Load Case | External Pressure | Internal Pressure | | | | | | | |
| Pressure Test | Formation Pore Pressure | Max mud weight of next hole- section plus Test psi | | | | | | | |
| Drill Ahead | Formation Pore Pressure | Max mud weight of next hole section | | | | | | | |
| Fracture @ Shoe | Formation Pore Pressure | Dry gas | | | | | | | |

| Intermediate Casing Collapse Design | | | | |
|---|---|-----------------|--|--|
| Load Case External Pressure Internal Pressure | | | | |
| Full Evacuation | Water gradient in cement, mud above TOC | None | | |
| Cementing | Wet cement weight | Water (8.33ppg) | | |

| Intermediate Casing Tension Design | | | |
|------------------------------------|---------|--|--|
| Load Case Assumptions | | | |
| Overpull | 100kips | | |
| Runing in hole 2 ft/s | | | |
| Service Loads | N/A | | |

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Production Casing Burst Design | | | | | |
|---|-------------------------|--|--|--|--|
| Load Case External Pressure Internal Pressure | | | | | |
| Pressure Test | Formation Pore Pressure | Fluid in hole (water or produced water) + test psi | | | |
| Tubing Leak | Formation Pore Pressure | Packer @ KOP, leak below surface 8.6 ppg packer fluid | | | |
| Stimulation | Formation Pore Pressure | Max frac pressure with heaviest frac fluid | | | |

| Production Casing Collapse Design | | | | | |
|---|--|-----------------|--|--|--|
| Load Case External Pressure Internal Pressure | | | | | |
| Full Evacuation | Water gradient in cement, mud above TOC. | None | | | |
| Cementing | Wet cement weight | Water (8.33ppg) | | | |

| Production Casing Tension Design | | |
|----------------------------------|---------|--|
| Load Case Assumptions | | |
| Overpull | 100kips | |
| Runing in hole | 2 ft/s | |
| Service Loads | N/A | |

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Surface Casing Burst Design | | | | | |
|---|-------------------------|---|--|--|--|
| Load Case External Pressure Internal Pressure | | | | | |
| Pressure Test | Formation Pore Pressure | Max mud weight of next hole- section plus Test psi | | | |
| Drill Ahead | Formation Pore Pressure | Max mud weight of next hole section | | | |
| Displace to Gas | Formation Pore Pressure | Dry gas from next casing point | | | |

| Surface Casing Collapse Design | | | | | |
|---|---|-----------------|--|--|--|
| Load Case External Pressure Internal Pressure | | | | | |
| Full Evacuation | Water gradient in cement, mud above TOC | None | | | |
| Cementing | Wet cement weight | Water (8.33ppg) | | | |

| Surface Casing Tension Design | | |
|-------------------------------|---------|--|
| Load Case Assumptions | | |
| Overpull | 100kips | |
| Runing in hole 3 ft/s | | |
| Service Loads | N/A | |

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TOP PHOENIX

OUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 nona: (3662) 556-737 • Fax: (3662) 556-738

SALES & MARKETING: H-1092 Budapest, Réday u. 42-44, Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerga.hu

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| Date: 29. April. 2002. | Inspector | | | Quali | ty Cont | HOE In | NIX RU dustrial l Inspecti EEEE AT | Ltd. on and DUF _t C | davu | <u>'</u> |

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400028171

Submission Date: 03/12/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FLAGLER 8 FED

Well Number: 31H

Well Type: OIL WELL Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Flagler 8 Fed 31H Access Rd 20180308101456.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Flagler_8_Fed_31H_New_Access_Rd_20180308101525.pdf

New road type: LOCAL

Length: 330.2

Feet

Width (ft.): 30

Max slope (%): 6

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water Drainage Ditch

New road access plan or profile prepared? YES

New road access plan attachment:

Flagler_8_Fed_31H New Access Rd 20180308101534.pdf

Access road engineering design? YES

Well Name: FLAGLER 8 FED Well Number: 31H

Access road engineering design attachment:

Flagler_8_Fed_31H_New_Access_Rd_20180308101543.pdf

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: See attached Interim reclamation diagram.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Water Drainage Ditch

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Flagler_8_Fed_31H_OneMiMap_20180308101606.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: 15 ATTACHMENTS - FLAGLER WELLPAD 2 & CTB 1 - 3 BATT CONN PLATS, CTB PAD AND ELECTRIC PLAT, 4 LATERAL PLATS, WELLPAD PLAT, 2 WELLPAD CTB TO FLOWLINE PLATS, WELLPAD ELECTRIC PLAT AND MULTI USE EASEMENT PLAT.

Production Facilities map:

Flagler_8_Fed_31H_BATCON_GAS_20180308101857.PDF

Flagler_8_Fed_31H_BATCON_WATER_20180308101858.PDF

Flagler_8_Fed_31H_CTB_1_BATCON_CRUDE_20180308101903.PDF

Well Name: FLAGLER 8 FED Well Number: 31H

Flagler_8_Fed_31H_CTB_1_20180308101902.pdf

Flagler_8_Fed_31H_CTB_1_ELE_20180308101904.PDF

Flagler_8_Fed_31H_LAT_ELE_SNM_20180308101905.PDF

Flagler_8_Fed_31H_LAT_CRUDE_20180308101905.PDF

Flagler_8_Fed_31H_LAT_ELE_20180308101906.PDF

Flagler 8 Fed 31H_LAT_20180308101908.PDF

Flagler 8 Fed 31H WP_2_TO_CTB_1_FL_20180308101930.PDF

Flagler_8_Fed_31H_WP_2_20180308101935.pdf

Flagler_8_Fed_31H_WP_1_TO_CTB_1_FL_20180308101937.PDF

Flagler_8_Fed_31H_WP_2_ELE_20180308101938.pdf

Flagler 8 Fed 31H MULTI USE EASE 20180308101951.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 150000

Source volume (gal): 6300000

Source volume (acre-feet): 19.333965

Water source and transportation map:

Flagler_8_Fed_31H_WP_2_Water_Map_20180308102134.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well Name: FLAGLER 8 FED Well Number: 31H

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. See attached map.

Construction Materials source location attachment:

Flagler_8_Fed_31H_Caliche_Map_20180308102255.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water Based Cuttings

Amount of waste: 1824 barrels

Waste disposal frequency : Daily
Safe containment description: N/A

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: All cuttings will disposed of at R360, Sundance, or equivalent.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 barrels

Waste disposal frequency : One Time Only

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Well Name: FLAGLER 8 FED Well Number: 31H

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: PRODUCED WATER

Waste content description: Produced formation water

Amount of waste: 2000

barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION

Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: FLOWBACK

Waste content description: Produced formation water

Amount of waste: 3000

barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION

Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Well Name: FLAGLER 8 FED

Well Number: 31H

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Fiagler_8_Fed_31H_Well_Layout_20180312062326.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: FLAGLER 8

Multiple Well Pad Number: 2

Recontouring attachment:

Flagler 8 Fed 31H Interim Recl 20180308102324.pdf

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable. **Drainage/Erosion control reclamation:** Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season.

Well Name: FLAGLER 8 FED Well Number: 31H

Well pad proposed disturbance

(acres): 8.266

Road proposed disturbance (acres):

0.227

Powerline proposed disturbance

(acres): 0.138

Pipeline proposed disturbance

(acres): 0.363

Other proposed disturbance (acres): 0

Total proposed disturbance: 8,994

Well pad interim reclamation (acres): Well pad long term disturbance

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 6.038

(acres): 2.228

Road long term disturbance (acres):

0.227

Powerline long term disturbance

(acres): 0.138

Pipeline long term disturbance

(acres): 0.363

Other long term disturbance (acres): 0

Total long term disturbance: 2.956

Disturbance Comments:

Reconstruction method: Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Well Name: FLAGLER 8 FED Well Number: 31H

| Seed Managemei | 1 | t |
|----------------|---|---|
|----------------|---|---|

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Travis

Last Name: Phibbs

Phone: (575)748-9929

Email: travis.phibbs@dvn.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Maintain weeds on an as need basis.

Weed treatment plan attachment:

Monitoring plan description: Monitor as needed.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Well Name: FLAGLER 8 FED Well Number: 31H

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

| Describe: |
|--|
| Surface Owner: BUREAU OF LAND MANAGEMENT |
| Other surface owner description: |
| BIA Local Office: |
| BOR Local Office: |
| COE Local Office: |
| DOD Local Office: |
| NPS Local Office: |
| State Local Office: |
| Military Local Office: |
| USFWS Local Office: |
| Other Local Office: |
| USFS Region: |
| USFS Forest/Grassland: |
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| |
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| |
| Disturbance type: EXISTING ACCESS ROAD |
| Describe: |
| Surface Owner: BUREAU OF LAND MANAGEMENT |
| Other surface owner description: |
| BIA Local Office: |
| BOR Local Office: |
| COE Local Office: |
| DOD Local Office: |
| NPS Local Office: |
| State Local Office: |
| AUTHORITIES OF THE STATE OF THE |
| Military Local Office: |
| USFWS Local Office: |

USFS Region:

USFS Ranger District:

| Well Name: FLAGLER 8 FED | Well Number: 31H |
|--|-----------------------|
| USFS Forest/Grassland: | USFS Ranger District: |
| | |
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| | |
| Disturbance type: PIPELINE | |
| Describe: | |
| Surface Owner: BUREAU OF LAND MANAGEMENT | |
| Other surface owner description: | |
| BIA Local Office: | |
| BOR Local Office: | |
| COE Local Office: | |
| DOD Local Office: | |
| NPS Local Office: | |
| State Local Office: | |
| Military Local Office: | |
| USFWS Local Office: | |
| Other Local Office: | |
| USFS Region: | |
| USFS Forest/Grassland: | USFS Ranger District: |
| | |
| | |
| • | |
| | |
| Disturbance type: WELL PAD | |
| Describe: | |
| Surface Owner: BUREAU OF LAND MANAGEMENT | |
| Other surface owner description: | |
| BIA Local Office: | |
| BOR Local Office: | |
| COE Local Office: | • |
| DOD Local Office: | |
| NPS Local Office: | |
| State Local Office: | |

Military Local Office:

Well Name: FLAGLER 8 FED

Well Number: 31H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,289001 ROW-O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

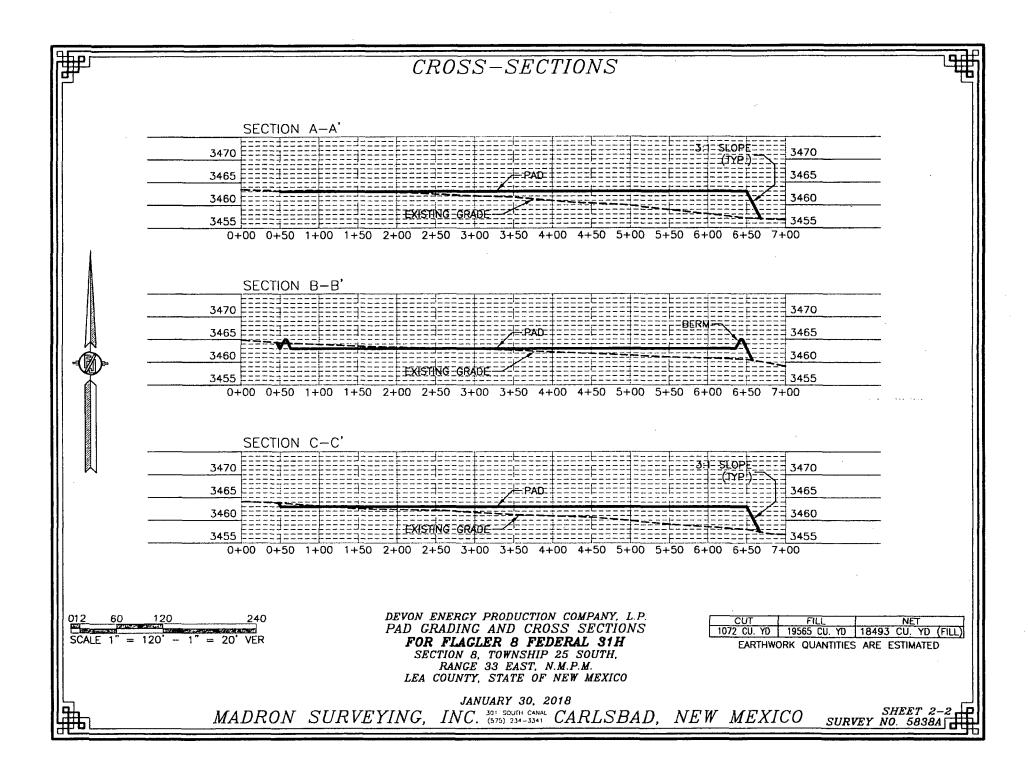
SUPO Additional Information: PERMITTING EIGHT WELLS ON PAD. SEE SEC. 4 FOR INFRASTRUCTURE PLATS. PLEASE SEE ATTACHED OR C-102 FOR GRADING PLAN PLATS.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite 11/9/2017

Other SUPO Attachment

Flagler_8_Fed 31H Grading Plan 20180308102425.pdf





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

| Produced Water Disposal (PWD) Location: | |
|--|--|
| PWD surface owner: | PWD disturbance (acres): |
| Unlined pit PWD on or off channel: | |
| Unlined pit PWD discharge volume (bbl/day): | |
| Unlined pit specifications: | |
| Precipitated solids disposal: | |
| Decribe precipitated solids disposal: | • |
| Precipitated solids disposal permit: | |
| Unlined pit precipitated solids disposal schedule: | |
| Unlined pit precipitated solids disposal schedule attachment: | |
| Unlined pit reclamation description: | |
| Unlined pit reclamation attachment: | |
| Unlined pit Monitor description: | |
| Unlined pit Monitor attachment: | |
| Do you propose to put the produced water to beneficial use? | |
| Beneficial use user confirmation: | |
| Estimated depth of the shallowest aquifer (feet): | |
| Does the produced water have an annual average Total Disso that of the existing water to be protected? | lived Solids (TDS) concentration equal to or less than |
| TDS lab results: | · |
| Geologic and hydrologic evidence: | |
| State authorization: | |
| Unlined Produced Water Pit Estimated percolation: | |
| Unlined pit: do you have a reclamation bond for the pit? | |
| Is the reclamation bond a rider under the BLM bond? | · |
| Unlined pit bond number: | |
| Unlined pit bond amount: | |
| Additional bond information attachment: | |
| Section 4 - Injection | • |
| | |
| Would you like to utilize Injection PWD options? NO | |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Injection PWD discharge volume (bbl/day): | |

| Injection well type: | |
|--|----------------------------|
| Injection well number: | Injection well name: |
| Assigned injection well API number? | Injection well API number: |
| Injection well new surface disturbance (acres): | |
| Minerals protection information: | |
| Mineral protection attachment: | |
| Underground Injection Control (UIC) Permit? | |
| UIC Permit attachment: | |
| Section 5 - Surface Discharge | · |
| Would you like to utilize Surface Discharge PWD options? N | 10 |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Surface discharge PWD discharge volume (bbl/day): | |
| Surface Discharge NPDES Permit? | |
| Surface Discharge NPDES Permit attachment: | |
| Surface Discharge site facilities Information: | |
| Surface discharge site facilities map: | |
| Section 6 - Other | |
| Would you like to utilize Other PWD options? NO | |
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Other PWD discharge volume (bbl/day): | |
| Other PWD type description: | · |
| Other PWD type attachment: | |
| Have other regulatory requirements been met? | |
| Other regulatory requirements attachment: | |



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Info Data Report 07/18/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



Fluid Technology

ContiTech Beattle Corp. Website: www.contitechbeattle.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment; this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

Should you have any questions or require any additional information/darifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattie Corp

ContiTech Beattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contliechbeattle.com



NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Yes

- 1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 14 ¾" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3. The wellhead will be installed and tested once the 10-3/4" surface casing is cut off and the WOC time has been reached.
- **4.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
- **6.** The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

| Attachments | | | |
|-------------|------------------|--|--|
| <u>x</u> _ | Directional Plan | | |
| | Other, describe | | |

6. Logging and Testing Procedures

| Logg | Logging, Coring and Testing. | | | | |
|------|--|--|--|--|--|
| X | Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). | | | | |
| ĺ | 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 | | | | |

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

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 4720 psi |
| Abnormal Temperature | No |

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

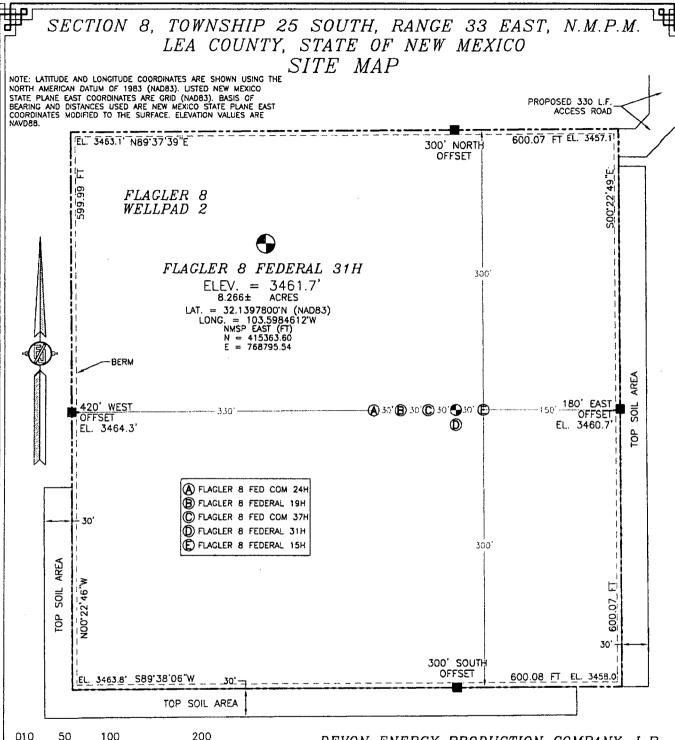
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be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

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

8. Other facets of operation

Is this a walking operation? Yes

- 1. In the event the spudder rig is unable to drill the surface holes the drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2. The drilling rig will then batch drill the intermediate sections with either OBM or cut brine and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3. The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.



SCALE 1" = 100'

DIRECTIONS TO LOCATION
FROM THE INTERSECTION OF HWY. 128 & DIAMOND ROAD, GO SOUTH
ON DIAMOND ROAD APPROX. 2.4 MILES WHERE PAVEMENT ENDS &
RANCH HOUSE, CONTINUE SOUTH APPROX. 0.5 MILE TO A "
INTERSECTION, GO SOUTH APPROX. 0.8 MILE TO A CATTLE GUARD,
CONTINUE SOUTH APPROX. 1.1 MILE TO A "INTERSECTION, GO
SOUTHWEST ON LEASE ROAD APPROX 0.8 MILE TO A LEASE ROAD ON
RIGHT (WEST). TURN WEST (RIGHT) GO 1.0 MILES TO GATE, GO
THROUGH GATE TO A PROPOSED ROAD SURVEY, FOLLOW PROPOSED
ROAD SOUTH 625' TO A PROPOSED "INTERSECTION, GO WEST 0.7
MILE TO A PROPOSED "INTERSECTION, GO SOUTH AND WEST 330'
TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
FLAGLER 8 FEDERAL 31H

LOCATED 700 FT. FROM THE SOUTH LINE
AND 1355 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 25 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JANUARY 30, 2018

SURVEY NO. 5838A

MADRON SURVEYING, INC. 301 SOUTH CARLS BAD, NEW MEXICO

- o 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.
- O Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Onshore Order #2.

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 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.

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 wellhead.

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.

Devon's proposed wellhead manufactures will be EMC Technologies, Cactus Wellhead, or Cameron.

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.

5. Mud Program

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss | | |
|-------|---------|--------|-----------------|-----------|------------|-----|--|
| From | From To | | | | | | |
| 0 | | 1150 | FW Gel | 8.5-9.0 | 28-34 | N/C | |
| 1150 | | 5,000 | Saturated Brine | 10.0-11.0 | 28-34 | N/C | |
| 5,000 | | 14,104 | 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? | |

| 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.
- 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 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.

Devon proposes 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 3000 (3M) psi.

- o Wellhead will be installed by wellhead representatives.
- o If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- o Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the packoff, the pack-off and the lower flange will be tested to 3M, 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.

3. Cementing Program

| Casing | # Sks | Wt. lb/ gal | Yld ft3/ sack | H ₂ 0 gal/sk | 500# Comp. Strength (hours) | Slurry Description |
|--------|-------|-------------------|---------------------|----------------------------|--------------------------------------|---|
| Surf. | 901 | 14.8 | 1.33 | 6.32 | 6 | Lead: Class C Cement + 0.125 lbs/sack Poly-F-Flake |
| Inter. | 511 | 10.3 | 3.65 | 22.06 | 24 | Lead: (50:50) Poz (Silica) 3 lbm/sk Kol-Seal, .125 lbm/sk Poly-E-Flake |
| | 306 | 14.8 | 1.33 | 6.32 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-F-Flake |
| Prod. | 446 | 9 | 3.27 | 13.5 | 21 | Lead: Tuned Light Cement |
| | 1221 | 14.5 | 1.2 | 5.31 | 25 | Tail: (50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite |

| Casing String | TOC | % Excess |
|---------------------|-------|----------|
| 13-3/8" Surface | 0' | 50% |
| 9-5/8" Intermediate | 0' | 30% |
| 5-1/2" Production | 4800' | 25% |

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 | Т | ype | V | Tested to: |
|---|---------|------------------------|------------|-------|----------|-------------------------|
| | | | An | nular | x | 50% of working pressure |
| | 13-5/8" | 3M | Blind Ram | | | |
| 12-1/4" | | | Pipe Ram | | | 3M |
| | | | Double Ram | | x | 5101 |
| | | | Other* | | | |
| | 13-5/8" | 3M | Annular | | х | 50% of working pressure |
| | | | Blind Ram | | | |
| 0.2/4" | | | Pipe Ram | | | |
| 8-3/4" | | | Double Ram | | х | 3M |
| | | | Other * | | | |
| | | | An | nular | | |
| | | | Blind Ram | | | |

2. Casing Program

| Hole | Casin | g Interval | Csg. | Weight | Grade | Conn. | SF | SF | SF |
|--------|----------|------------|---------|---------|-----------|-----------|----------|-------|---------|
| Size | From | To | Size | (lbs) | | | Collapse | Burst | Tension |
| 17.5" | 0 | 1,150' | 13.375" | 48 | H40 | STC | 1.125 | 1 | 1.6 |
| 12.25" | 0 | 5,000' | 9.625" | 40 | J55 | LTC | 1.125 | 1 | 1.6 |
| 8.75" | 0 | 14,104' | 5.5" | 17 | P110 | BTC | 1.125 | 1 | 1.6 |
| | <u> </u> | | | BLM Min | imum Safe | ty Factor | 1.125 | 1 | 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? | |

1. Geologic Formations

| TVD of target | 9,575 | Pilot hole depth | N/A |
|---------------|---------|-------------------------------|-----|
| MD at TD: | 14,104' | Deepest expected fresh water: | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* | |
|-----------------|------------------------|--|----------|--|
| RUSTLER | 1145 | | | |
| . TOP SALT | 1508 | | | |
| BASE OF SALT | 5000 | | | |
| BELL CANYON | 5000 | | | |
| CHERRY CANYON | 6040 | | | |
| BRUSHY CANYON | 7690 | | | |
| BONE SPRING | 9110 | | | |
| BONE SPRING 1ST | 10016 | | | |
| BONE SPRING 2ND | 10610 | | | |
| | | | - | |
| | | | | |
| | | • | | |
| | | | | |
| | | | | |
| 1 | | | | |
| | | | | |

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

Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - **a.** The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.