|   |  |  | n           |   |   | MIN     |  |  |
|---|--|--|-------------|---|---|---------|--|--|
| Form 3160-3<br>(June 2015)  | H  | OBBS OC<br>SEP 1 8 201                   | ر<br>۹      | OMB No  | APPROVED<br>b. 1004-0137<br>inuary 31, 2018 | FURF    |  |  |
| UNITED STATES<br>DEPARTMENT OF THE INT  | ERIOR  | SFP 18 201                               | 0           | 5. Lease Serial No.                               |   |         |  |  |
| BUREAU OF LAND MANAG  | EMENT  | JL.                                      | ED          | NMLC0061869                                       |   |         |  |  |
| BUREAU OF LAND MANAG  | LL OR I  | REPRESEIV                                |             | 6. If Indian, Allotee                             | or Tribe Name                               |         |  |  |
|   | NTER   |  |             | 7. If Unit or CA Agr                              | eement, Name an                             | d No.   |  |  |
| 1b. Type of Well: ✓ Oil Well Gas Well Other   |  |  |             |   |   |         |  |  |
|   | e Zone   | Multiple Zone                            |             | 8. Lease Name and                                 |   | Σ.      |  |  |
|   |  | imultiple 2016                           |             | MARWARI 28-16.5<br>232H                           | STATE FED CO<br>3-2-2-4-4-5                 | M<br>)  |  |  |
| 2. Name of Operator<br>DEVON ENERGY PRODUCTION COMPANY LP (6137   | )  |  | ~           | 9. API-Well No.                                   | 5-4520                                      | 3       |  |  |
|   |  | o. (include area code,                   | $\sim$      | 10. Field and Pool, o                             | • • • • • •                                 | 76715   |  |  |
|   | 05)552-65  |  | <           | WC-025 G-07 S25                                   | >   |         |  |  |
| <ol> <li>Location of Well (Report location clearly and in accordance with<br/>At surface NWNW / 175 FNL / 410 FWL / LAT 32.1081014</li> </ol>   |  | -  | $\bigcap$   | 11. Sec., T. R. M. of<br>SEC 28/ T25S/ R          |   | or Area |  |  |
| At proposed prod. zone NWNW / 330 FNL / 330 FWL / LAT   | 32.13673   | 24 / LONG -103.68                        | 75429       |   |   |         |  |  |
| 14. Distance in miles and direction from nearest town or post office*   | F  |  |             | 12. County or Parish<br>LEA                       | n 13. Sta<br>NM                             | te      |  |  |
| location to nearest 300 feet  | location to nearest 300 feet 2398.96 320               |  |             |   |   |         |  |  |
| 18. Distance from proposed location* 19<br>to nearest well, drilling, completed.  | stance from proposed location* 19. Proposed Depth 20/B |  |             |   |   |         |  |  |
| 3377 feet 02  | 2/21/2019  | mate date work will st                   | tart*       | 23. Estimated durati<br>45 days                   | on  |         |  |  |
|   | 24. Attacl   | hments                                   |             |   |   |         |  |  |
| The following, completed in accordance with the requirements of Or<br>(as applicable)   | hshore Oil   | and Gas Order No. 1,                     | , and the H | Hydraulic Fracturing r                            | ule per 43 CFR 3                            | 162.3-3 |  |  |
| <ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System L<br/>SUPO must be filed with the appropriate Forest Service Office).</li> </ol> | Lands, the   | Item 20 above).<br>5. Operator certifica | tion.       | ns unless covered by an<br>mation and/or plans as | Ū.  | ·       |  |  |
| 25. Signature<br>(Electronic Submission)  | 1  | (Printed/Typed)<br>/orkman / Ph: (405)   | 552-797     | 0   | Date<br>03/01/2018                          |         |  |  |
| Title Regulatory Compliance Professional  | ·  |  |             |   |   |         |  |  |
| Approved by (Signature)<br>(Electronic Submission)  |  | (Printed/Typed)<br>Layton / Ph: (575)23  | 34-5959     |   | Date<br>09/13/2018                          |         |  |  |
| Title / / / / / / / / / / / / / / / / / / /   | Office<br>CARL   |  |             |   |   |         |  |  |
| Application approval does not warrant or certify that the applicant he applicant to conduct operations thereon.<br>Conditions of approval, if any, are attached.  | olds legal o   | or equitable title to the                | ose rights  | in the subject lease w                            | hich would entitle                          | the     |  |  |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make<br>of the United States any false, fictitious or fraudulent statements or re  |  |  |             |   | iny department or                           | agency  |  |  |
| 6CP Rec 9/18/18   | en WI  | TH CONDITI                               | IONS        | 69/14   | í   1B                                      |         |  |  |
| (Continued on page 2)   |  | : 09/13/2018                             |             | *(Ins   | structions on p                             | bage 2) |  |  |

Approval Date: 09/13/2018

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## **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 I: 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 wen, 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 directionany 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.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.



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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: NWNW / 175 FNL / 410 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1081014 / LONG: -103.6873567 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 497 FSL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 21 / LAT: 32.1099525 / LONG: -103.6876092 (TVD: 10220 feet, MD: 10551 feet) BHL: NWNW / 330 FNL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 16 / LAT: 32.1367324 / LONG: -103.6875429 (TVD: 10220 feet, MD: 20293 feet)

## **BLM Point of Contact**

Name: Judith Yeager Title: Legal Instruments Examiner Phone: 5752345936 Email: jyeager@blm.gov

## **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.



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: Erin Workman

Signed on: 03/01/2018

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

State: OK

City: Oklahoma City

Phone: (405)552-7970

Email address: Erin.Workman@dvn.com

## **Field Representative**

Representative Name: Ray VazStreet Address: 6488 Seven Rivers HWYCity: ArtesiaState: NMPhone: (575)748-9929Email address: ray.vaz@dvn.com

Zip: 73102

Zip: 88210

# AFMSS

# U.S. Department of the Interior

### 09/17/2018 BUREAU OF LAND MANAGEMENT Service of the servic APD ID: 10400027869 Submission Date: 03/01/2018 **Operator Name: DEVON ENERGY PRODUCTION COMPANY LP** Well Name: MARWARI 28-16 STATE FED COM Well Number: 232H Show Final Text Well Type: OIL WELL Well Work Type: Drill **Section 1 - General** APD ID: 10400027869 **Tie to previous NOS?** Submission Date: 03/01/2018 **BLM Office: CARLSBAD** User: Erin Workman **Title:** Regulatory Compliance Professional Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED Earsta navini bena KNAIDE ONO KASE Allotted? **Reservation:** Surface access agreement in place? Agreement in place? NO Federal or Indian agreement: Agreement number: Agreement name: Keep application confidential? YES APD Operator: DEVON ENERGY PRODUCTION COMPANY LP Permitting Agent? NO **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

Application Data Repor

State: OK Operator City: Oklahoma City

Operator Phone: (405)552-6571

**Operator Internet Address:** 

## Section 2 - Well Information

| Well in Master Development Plan? NO       | Mater Development Plan nam          | e:                     |  |  |  |  |  |
|---|-------------------------------------|------------------------|--|--|--|--|--|
| Well in Master SUPO? NO                   | Master SUPO name:                   |                        |  |  |  |  |  |
| Well in Master Drilling Plan? NO          | Master Drilling Plan name:          |                        |  |  |  |  |  |
| Well Name: MARWARI 28-16 STATE FED COM    | Well Number: 232H                   | Well API Number:       |  |  |  |  |  |
| Field/Pool or Exploratory? Field and Pool | Field Name: WC-025 G-07<br>S253206M | Pool Name: BONE SPRING |  |  |  |  |  |

| Is the proposed well in an area containing oth | er mineral resources? NATURAL GAS,OIL,POTASH |
|--|--|
|--|--|

| Describe other minerals:               |                |  |              |                          |  |  |
|--|----------------|--|--------------|--------------------------|--|--|
| Is the proposed well in a Helium produ | uction area? N | Use Existing Well Pac                  | <b>I?</b> NO | New surface disturbance? |  |  |
| Type of Well Pad: MULTIPLE WELL        |                | Multiple Well Pad Nan                  |              | Number: 1                |  |  |
| Well Class: HORIZONTAL                 |                | MARWARI 28 WELLPA<br>Number of Legs: 1 | AD           |                          |  |  |
| Well Work Type: Drill                  |                |  |              |                          |  |  |
| Well Type: OIL WELL                    |                |  |              |                          |  |  |
| Describe Well Type:                    |                |  |              |                          |  |  |
| Well sub-Type: INFILL                  |                |  |              |                          |  |  |
| Describe sub-type:                     |                |  |              |                          |  |  |
| Distance to town:                      | Distance to ne | arest well: 470 FT                     | Distanc      | e to lease line: 300 FT  |  |  |
| Reservoir well spacing assigned acres  | s Measurement: | 320 Acres                              |              |                          |  |  |
| Well plat: MARWARI_28_16_SFC_2         | 232H_C_102_20  | 180301102258.pdf                       |              |                          |  |  |
| Well work start Date: 02/21/2019       |                | Duration: 45 DAYS                      |              |                          |  |  |
|  |                |  |              |                          |  |  |

## **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

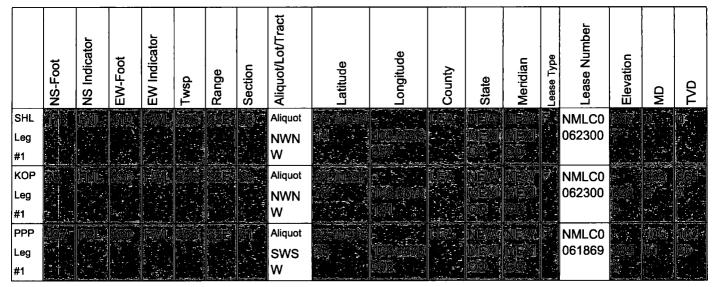
- - 41- - --

.....

Datum: NAD83

### Vertical Datum: NAVD88

Survey number: 5869A



## Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

|      | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range  | Section     | Aliquot/Lot/Tract | Latitude  | Longitude  | County   | State         | Meridian | Lease Type | Lease Number | Elevation | DW        | DVT  |
|------|---------|--------------|---------|--------------|------|--|-------------|-------------------|-----------|------------|--|---------------|----------|------------|--------------|-----------|-----------|------|
| EXIT | 200     | ENL.         |         | EVAL.        | 6258 |  | 13          | Aliquot           | SZEPCISZO |            | $\left  \left  \begin{array}{c} \left[ \frac{p}{2} \left( \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \right) \right] \right  \right  = \left  \begin{array}{c} \left[ \frac{p}{2} \left( \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left( \int_{-\infty}^{\infty} $ | NEW)          | NEW      | <u> </u>   | STATE        |           | 202       | 102  |
| Leg  |         |              |         |              |      |  |             | NWN               | 94).<br>  | inge lands |  | M A           | MEXI     |            |              |           |           | 國    |
| #1   |         |              |         |              |      | ан.<br>1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 |             | w                 |           |            |  | (6)()         | (C@)     |            |              | 8         |           |      |
| BHL  | STOP    | nat.         | S.S.(6) | FW.          | 25   |  | 16          | Aliquot           | 22.10.373 | 3          |  | NEW           |          | 32 M       | STATE        | 1         | 202       | 102  |
| Leg  |         |              |         |              | ŧ.,  |  |             | NWN               | 201 · · · | 103,637.6  |  | RA MI         | MEXI     |            |              | 6874-c    | <u>86</u> | 239) |
| #1   |         |              |         | 1            |      |  | and and and | w                 |           |            |  | ( <u>(</u> ]) | 00       |            |              |           |           |      |

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

# Drilling Plan Data Report

Contraction of the second

09/17/2018

APD ID: 10400027869

Submission Date: 03/01/2018



Show Final Text

Well Name: MARWARI 28-16 STATE FED COM

**Operator Name: DEVON ENERGY PRODUCTION COMPANY LP** 

Well Number: 232H

Well Type: OIL WELL

Well Work Type: Drill

## **Section 1 - Geologic Formations**

| Formation Name | Elevation                          |  | Measured<br>Depth  | Lithologies  | Mineral Resources  | Producing<br>Formation  |
|----------------|------------------------------------|--|--|--|--|---|
|                | 3377                               | 0  | 0  | OTHER : SURFACE  | NONE   | No  |
| RUSTLER        | -790                               | 790  | 790  | ANHYDRITE  | NONE   | No  |
| SALADO         | -1160                              | 1160   | 1160   | SALT   | NONE   | No  |
| BASE OF SALT   | -4336                              | 4336   | 4336   | SALT   | NONE   | No  |
| DELAWARE       | -4570                              | 4570   | 4570   | SANDSTONE  | NONE   | No  |
| BONE SPRING    | -8540                              | 8540   | 8540   | SANDSTONE  | NATURAL GAS,OIL  | Yes   |
| -              | SALADO<br>BASE OF SALT<br>DELAWARE | 3377RUSTLER-790SALADO-1160BASE OF SALT-4336DELAWARE-4570 | Formation NameElevationDepth33770RUSTLER-790790SALADO-11601160BASE OF SALT-43364336DELAWARE-45704570 | 3377         0         0           RUSTLER         -790         790         790           SALADO         -1160         1160         1160           BASE OF SALT         -4336         4336         4336           DELAWARE         -4570         4570         4570 | Formation NameElevationDepthDepthLithologies3377000OTHER : SURFACERUSTLER-790790790ANHYDRITESALADO-116011601160SALTBASE OF SALT-433643364336SALTDELAWARE-457045704570SANDSTONE | Formation NameElevationDepthDepthLithologiesMineral Resources3377000OTHER : SURFACENONERUSTLER-790790790ANHYDRITENONESALADO-116011601160SALTNONEBASE OF SALT-433643364336SALTNONEDELAWARE-457045704570SANDSTONENONE |

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 3M

Rating Depth: 5250

**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 3M 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:**

MARWARI\_28\_16\_SFC\_232H\_3M\_BOPE\_CK\_20180305093118.pdf

### **BOP Diagram Attachment:**

MARWARI\_28\_16\_SFC\_232H\_3M\_BOPE\_CK\_20180305093140.pdf

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

Pressure Rating (PSI): 3M

Rating Depth: 10300

**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 3M 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:**

MARWARI\_28\_16\_SFC\_232H\_3M\_BOPE\_CK\_20180305093214.pdf

### **BOP Diagram Attachment:**

MARWARI\_28\_16\_SFC\_232H\_3M\_BOPE\_CK\_20180305093233.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<br>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          | 815           | 0           | 815            | 0           |                | 815                            | H-40      |        |            | 1.12<br>5   | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |
|           | INTERMED<br>IATE | 12.2<br>5 | 9.625    | NEW       | API      | N              | 0          | 4450          | 0           | 4450           |             |                | 4450                           | J-55      |        |            | 1.12<br>5   | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |
|           | PRODUCTI<br>ON   | 8.75      | 5.5      | NEW       | API      | N              | 0          | 20293         | 0           | 10220          |             |                | 20293                          | P-<br>110 |        | _          | 1.12<br>5   | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |

### **Casing Attachments**

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

### **Casing Attachments**

| Casing ID: 1 String Type: SURFACE                        |
|--|
| Inspection Document:                                     |
|  |
| Spec Document:   |
|  |
| Tapered String Spec:                                     |
| Casing Design Assumptions and Worksheet(s):              |
|  |
| MARWARI_28_16_SFC_232H_SurfCsg_Ass_20180301134910.pdf    |
| Casing ID: 2 String Type: INTERMEDIATE                   |
| Inspection Document:                                     |
|  |
| Spec Document:   |
|  |
| Tapered String Spec:                                     |
|  |
| Casing Design Assumptions and Worksheet(s):              |
| MARWARI_28_16_SFC_232H_Int_Csg_Ass_20180301134927.pdf    |
|  |
| Casing ID: 3 String Type: PRODUCTION                     |
| Inspection Document:                                     |
|  |
| Spec Document:   |
|  |
| Tapered String Spec:                                     |
|  |
| Casing Design Assumptions and Worksheet(s):              |
| MARWARI_28_16_SFC_232H_ProdCasing_Ass_20180301135035.pdf |

**Section 4 - Cement** 

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Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

| String Type | Lead/Tail | Stage Tool<br>Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives                       |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|---------------------------------|
| SURFACE     | Lead      |                     | 0      | 815       | 632          | 1.33  | 14.8    | 840   | 50      | с           | 0.125 lbs/sack Poly-F-<br>Flake |

| INTERMEDIATE | Lead | 0    | 3950      | 742  | 3.65 | 10.3 | 2708 | 30 | 50:50 POZ | (65:35) Class C<br>Cement: Poz (Fly Ash):<br>6% BWOC Bentonite +<br>5% BWOW Sodium<br>Chloride + 0.125 lbs/sks<br>Poly-E-Flake     |
|--------------|------|------|-----------|------|------|------|------|----|-----------|--|
| INTERMEDIATE | Tail | 3950 | 4450      | 153  | 1.33 | 14.8 | 203  | 30 | С         | 0.125 lbs/sack Poly-F-<br>Flake  |
| PRODUCTION   | Lead | 4250 | 1008<br>2 | 801  | 3.27 | 9    | 2619 | 25 | Tuned     | N/A  |
| PRODUCTION   | Tail | 0    | 2029<br>3 | 1997 | 1.2  | 14.5 | 2396 | 25 | Н         | (50:50) Clas H Cement:<br>Poz (Fly Ash) + 0.5%<br>bwoc HALAD-344 +<br>0.4% bwoc CFR-3 +<br>0.2% BWOC HR-601 +<br>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: MARWARI 28-16 STATE FED COM

Well Number: 232H

| Top Depth | Bottom Depth | Mud Type           | Min Weight (Ibs/gal) | Max Weight (Ibs/gal) | Density (Ibs/cu ft) | Gel Strength (lbs/100 sqft) | H | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|
| 0         | 815          | WATER-BASED<br>MUD | 8.4                  | 9                    |                     |                             |   | 2              |                |                 |                            |
| 815       | 4450         | SALT<br>SATURATED  | 9                    | 10.5                 |                     |                             |   | 2              |                |                 |                            |
| 4450      | 2029<br>3    | WATER-BASED<br>MUD | 8.5                  | 9.3                  |                     |                             |   | 12             |                |                 |                            |

## Section 6 - Test, Logging, Coring

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

Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). 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:

CBL,DS,GR,MUDLOG

Coring operation description for the well:

N\A

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4950

Anticipated Surface Pressure: 2701.6

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:

MARWARI\_28\_16\_SFC\_232H\_H2S\_PLANS\_20180305093627.pdf

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

## Section 8 - Other Information

### Proposed horizontal/directional/multi-lateral plan submission:

MARWARI\_28\_16\_SFC\_232H\_DIR\_SURVEY\_20180301135920.pdf MARWARI\_28\_16\_SFC\_232H\_36x48WM\_20180301135951.pdf

### Other proposed operations facets description:

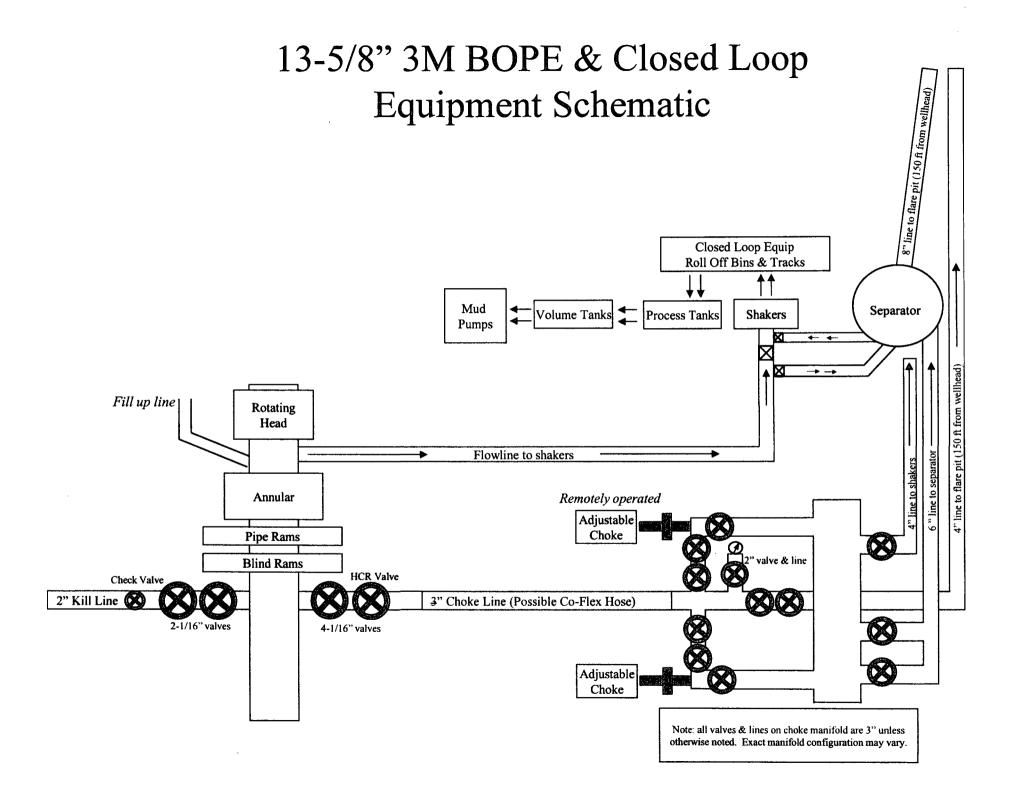
MULTI-BOWL VERBIAGE MULTI-BOWL WELLHEAD CLOSED-LOOP DESIGN PLAN GCP FORM ANTI-COLLISION REPORT DRILLING PLAN

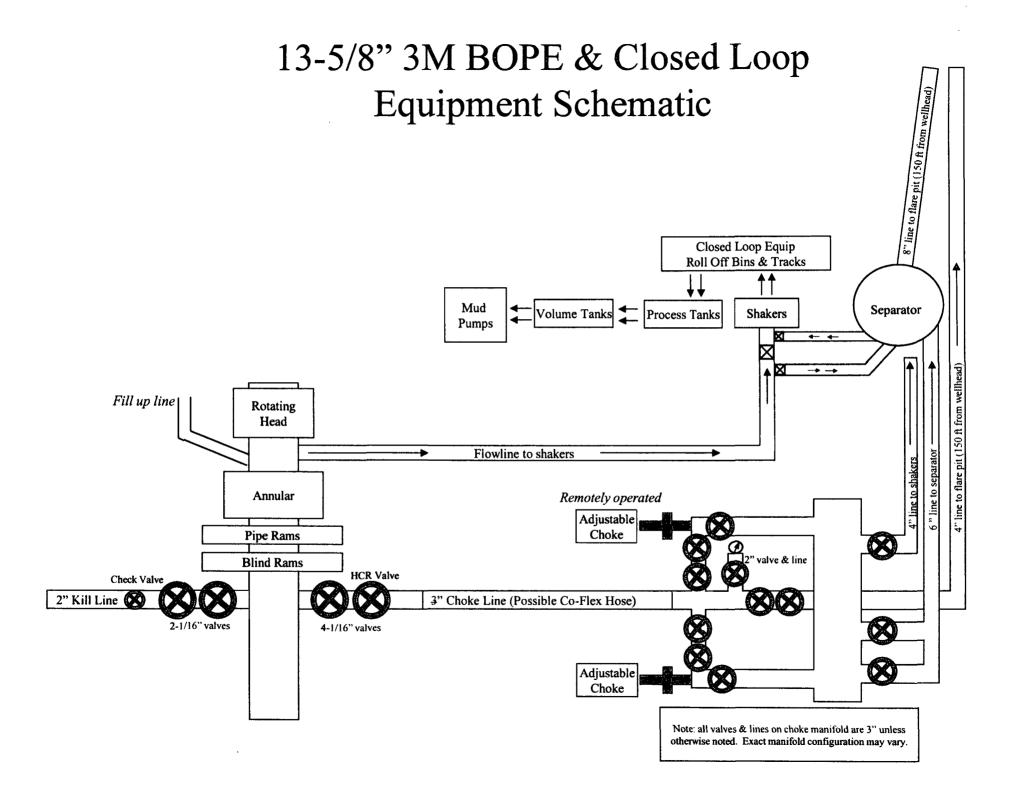
### Other proposed operations facets attachment:

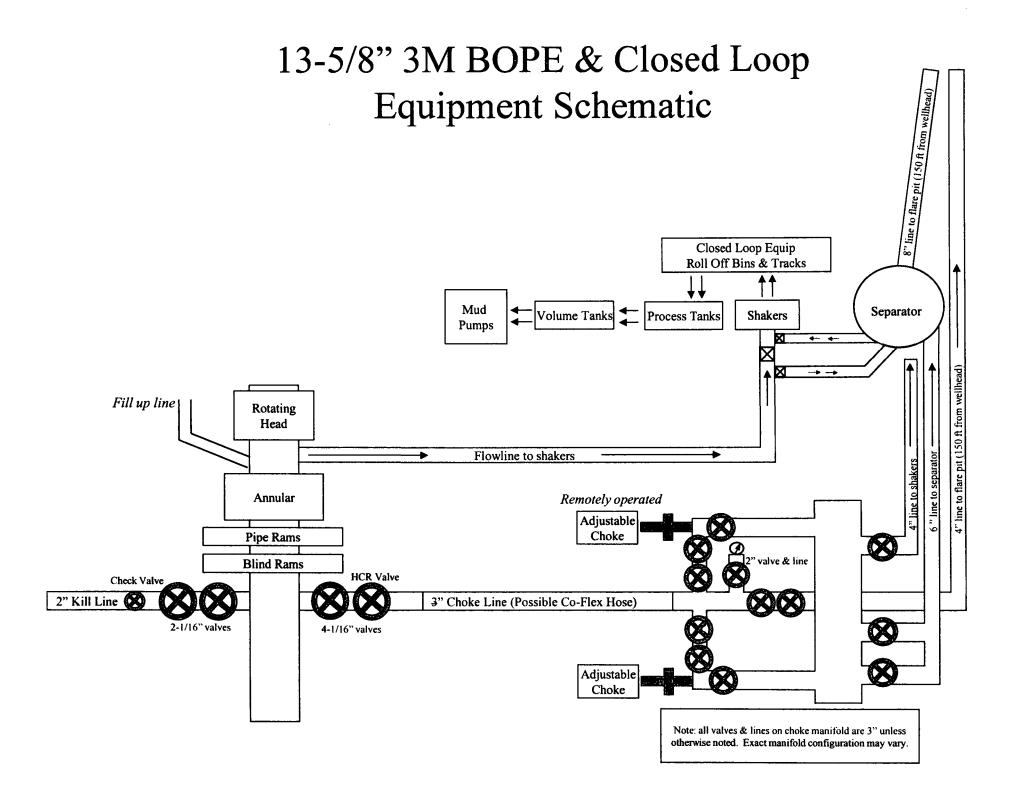
MARWARI\_28\_16\_SFC\_232\_GCP\_20180301140135.pdf MARWARI\_28\_16\_SFC\_232\_MB\_Wellhd\_20180301140136.pdf MARWARI\_28\_16\_SFC\_232H\_Clsd\_Loop\_20180301140136.pdf MARWARI\_28\_16\_SFC\_232H\_DRILLING\_PLAN\_20180301140137.pdf MARWARI\_28\_16\_SFC\_232H\_ACReport\_20180301140331.pdf MARWARI\_28\_16\_SFC\_232H\_MB\_Verb\_3M\_20180301140331.pdf

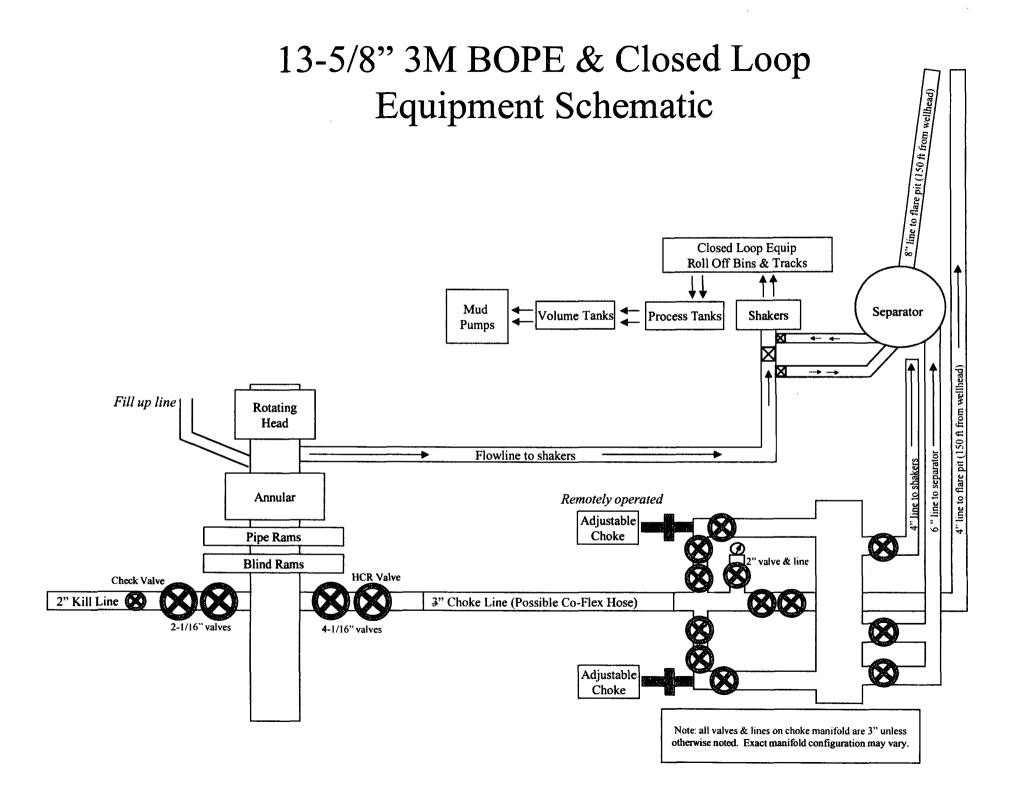
### Other Variance attachment:

MARWARI\_28\_16\_SFC\_232H\_Co\_flex\_20180301140422.pdf









**Casing Assumptions and Load Cases** 

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-<br>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<br>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     |

Production

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<br>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                |         |

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-<br>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     |  |

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 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.

- Wellhead will be installed by wellhead representatives.
- 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.
- 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 pack-off, 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.
- 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 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 FMC Technologies, Cactus Wellhead, or Cameron.

## 

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

# 

APD ID: 10400027869

Well Type: OIL WELL

**Operator Name: DEVON ENERGY PRODUCTION COMPANY LP** 

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

Show Final Text

09/17/2018

SUPO Data Report

Well Work Type: Drill

Submission Date: 03/01/2018

## Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MARWARI\_28\_16\_SFC\_232\_Existing\_Rd\_20180301140559.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:

MARWARI 28 16 SFC 232 New Access Rd 20180301140718.pdf MARWARI\_28\_16\_SFC\_232\_New\_Access\_Road\_20180301140725.pdf New road type: COLLECTOR, LOCAL, RESOURCE Length: 2605 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: MARWARI 28\_16\_SFC\_232\_New\_Access\_Rd\_20180301140947.pdf MARWARI 28 16 SFC 232 New Access Road 20180301140951.pdf

Weil Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

### Access road engineering design? YES

Access road engineering design attachment:

MARWARI\_28\_16\_SFC\_232\_New\_Access\_Rd\_20180301141006.pdf

MARWARI\_28\_16\_SFC\_232\_New\_Access\_Road\_20180301141011.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:

MARWARI\_28\_16\_SFC\_232\_1\_Mile\_Radius\_20180301141647.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:** 11 Attachments- Well pad elec. line, CTB BATCON Gas, CTB BATCON Elec., CTB BATCON W lat. line, CTB 1 Plat, CTB BATCON Water, Flowline, CTB Lateral Elec, Lateral Elec. Line, CTB BATCON N lat. line. Multi Use Easement Plat **Production Facilities map:** 

MARWARI\_28\_16\_SFC\_232\_CTB\_1\_ELECTRIC\_LINE\_P\_20180301142258.PDF MARWARI\_28\_16\_SFC\_232\_LATERAL\_ELECTRIC\_LINE\_P\_20180301142259.PDF MARWARI\_28\_16\_SFC\_232\_WELLPAD\_1\_ELEC\_LINE\_P\_20180301142300.PDF MARWARI\_28\_16\_SFC\_232H\_CTB\_1\_BATCON\_WATER\_20180301142303.PDF MARWARI\_28\_16\_SFC\_232H\_BATCON\_GAS\_20180301142301.PDF MARWARI\_28\_16\_SFC\_232H\_CTB\_1\_BATCON\_OIL\_20180301142304.PDF MARWARI\_28\_16\_SFC\_232H\_CTB\_1\_PAD\_P\_20180301142308.pdf MARWARI\_28\_16\_SFC\_232H\_FLOWLINE\_PLAT\_20180301142309.pdf MARWARI\_28\_16\_SFC\_232H\_FLOWLINE\_PLAT\_20180301142309.pdf MARWARI\_28\_16\_SFC\_232H\_NORTH\_LATERAL\_P\_20180301142314.PDF MARWARI\_28\_16\_SFC\_232H\_WEST\_LATERAL\_P\_20180301142317.PDF

## Section 5 - Location and Types of Water Supply

## Water Source Table

Water source use type: STIMULATION

Describe type:

Source latitude:

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): 135000

Source volume (gal): 5670000

### Water source and transportation map:

MARWARI\_28\_16\_SFC\_232\_Wtr\_Map\_20180301142946.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

Water source type: RECYCLED

Source volume (acre-feet): 17.400568

Source longitude:

| 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: MARWARI 28-16 STATE FED COM

Well Number: 232H

| 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:**

MARWARI\_28\_16\_SFC\_232\_Caliche\_Map\_20180301143033.pdf

## Section 7 - Methods for Handling Waste

Waste type: PRODUCED WATER

Waste content description: Produced water dring production operations. This amount is a daily average during the first year of production. (BWPD)

Amount of waste: 4000 barrels

Waste disposal frequency : Daily

Safe containment description: N\A

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: FEDERAL

Disposal type description:

**Disposal location description:** One of three company owned SWD facilities in the area: CDU 181H, CDU 89, or Cotton Draw 32 State SWD 2 or a third party off load to Mesquite.

Waste type: FLOWBACK

Waste content description: Produced water during flowback operations.

Amount of waste: 4000 barrels

Waste disposal frequency : Daily

Safe containment description: N\A

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION Disposal location ownership: FEDERAL

Disposal type description:

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

Disposal location description: One of three company owned SWD facilities in the area: CDU 181H, CDU 89, or Cotton Draw 32 State SWD 2 or a third party off load to Mesquite

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:** 

Disposal location description: various disposal locations in Lea and Eddy County

Waste type: DRILLING

Waste content description: Water Based Cuttings

Amount of waste: 1980 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

**Disposal location ownership: COMMERCIAL** Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal type description:** 

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

**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** 

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

| Cuttings Area being used? NO                   |                                |
|--|--------------------------------|
| 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 install | ation 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:

MARWARI\_28\_16\_SFC\_232H\_RIG\_LAYOUT\_20180301143405.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: MARWARI 28 WELLPAD

Multiple Well Pad Number: 1

Recontouring attachment:

MARWARI\_28\_16\_SFC\_232\_Interim\_Reclam\_20180301150447.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: MARWARI 28-16 STATE FED COM

Well Number: 232H

| Well pad proposed disturbance<br>(acres): 3.21 | Well pad interim reclamation (acres):   | Well pad long term disturbance<br>(acres): 1.829 |
|--|---|--|
| Road proposed disturbance (acres):<br>1.794    | Road interim reclamation (acres): 0   | Road long term disturbance (acres):              |
| Powerline proposed disturbance (acres): 0.159  | Powerline interim reclamation (acres):  | Powerline long term disturbance                  |
| Pipeline proposed disturbance (acres): 0.083   | Pipeline interim reclamation (acres): 0                                       | Pipeline long term disturbance (acres): 0.083    |
| Other proposed disturbance (acres):            | Other interim reclamation (acres): 0<br>)<br>Total interim reclamation: 1.381 | Other long term disturbance (acres): 0           |
| Total proposed disturbance: 5.246              | Total Interim reclamation: 1.301  | Total long term disturbance: 3.865               |

### **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: MARWARI 28-16 STATE FED COM

Well Number: 232H

| Seed Management                               | <b>t</b>                |                          |
|---|-------------------------|--------------------------|
| 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 attachmen Operator Contact/F |                         | ial Contact Info         |
| First Name:                                   |                         | Last Name:               |
| Phone:  |                         | Email:                   |
| Seedbed prep:                                 |                         |                          |
| Seed BMP:                                     |                         |                          |
| Seed method:                                  |                         |                          |
| Existing invasive species? N                  | Ю                       |                          |
| Existing invasive species tre                 | atment description:     |                          |
| Existing invasive species tre                 | atment attachment:      |                          |
| Weed treatment plan descrip                   | tion: Maintain weeds or | n an as need basis.      |
| Weed treatment plan attachn                   | nent:                   |                          |
| Monitoring plan description:                  | Monitor as needed.      |                          |
| Monitoring plan attachment:                   |                         |                          |
| Success standards: N\A                        |                         |                          |
| Pit closure description: N\A                  |                         |                          |

Pit closure attachment:

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

## 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: USFS Ranger District:** 

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: USFWS Local Office: Other Local Office: USFS Region: Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

### **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: **USFWS Local Office: Other Local Office: USFS Region: USFS** Forest/Grassland: **USFS Ranger District:** 

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:

| <b>Operator Name:</b> | DEVON ENERGY PRODUCTION COMPANY LP |
|-----------------------|------------------------------------|
|-----------------------|------------------------------------|

Well Name: MARWARI 28-16 STATE FED COM

Well Number: 232H

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, FLPMA (Powerline)

**ROW Applications** 

**SUPO Additional Information:** See Section 4: 11 Attachments- Well pad elec. line, CTB BATCON Gas, CTB BATCON Elec., CTB BATCON W lat. line, CTB 1 Plat, CTB BATCON Water, Flowline, CTB Lateral Elec, Lateral Elec. Line, CTB BATCON N lat. line. Multi Use Easement Plat **Use a previously conducted onsite?** YES

Previous Onsite information: 12/06/2017

Other SUPO Attachment



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**

### Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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 Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

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:** 

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned 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? NO

 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:
 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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met?

Other regulatory requirements attachment:

PWD disturbance (acres):

Injection well name:

Injection well API number:

## VAFMSS

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

## **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?

Bond Info Data Report

09/17/2018

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: