

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

Carlsbad Field Office
OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

MIN F
SUNP 4

| | | | |
|--|---|--|-----------|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM061360 | |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name | |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 7. If Unit or CA Agreement, Name and No. | |
| 2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP (6137) | | 8. Lease Name and Well No. GAUCHO UNIT 36H | |
| 3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102 | | 9. API Well No. 30-025-45170 | |
| 3b. Phone No. (include area code) (405)552-6571 | | 10. Field and Pool, or Exploratory WC-025 G-06 S223421L; BONE SPRING | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 350 FSL / 1205 FEL / LAT 32.3563796 / LONG -103.4875002 At proposed prod. zone NENE / 330 FNL / 380 FEL / LAT 32.369027 / LONG -103.4848327 | | 11. Sec. T. R. M. or Blk. and Survey or Area SEC 29 / T22S / R34E / NMP | |
| 14. Distance in miles and direction from nearest town or post office* | | 12. County or Parish | 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 350 feet | 16. No of acres in lease 960 | 17. Spacing Unit dedicated to this well 160 | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 804 feet | 19. Proposed Depth 11335 feet / 15949 feet | 20. BLM/BIA Bond No. in file FED: CO1104 | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3422 feet | 22. Approximate date work will start* 08/25/2018 | 23. Estimated duration 45 days | |
| 24. Attachments | | | |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

| | | |
|--|--|--------------------|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429 | Date 03/14/2018 |
| Title Regulatory Compliance Professional | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 | Date 08/23/2018 |
| Title Assistant Field Manager Lands & Minerals | | |
| Office CARLSBAD | | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 09/06/18

K2
09/07/18

Don't
5:00

APPROVED WITH CONDITIONS
Approval Date: 08/23/2018

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.

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.

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 connects this information to a new 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 Connection 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: SESE / 350 FSL / 1205 FEL / TWSP: 22S / RANGE: 34E / SECTION: 29 / LAT: 32.3563796 / LONG: -103.4875002 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 330 FSL / 380 FEL / TWSP: 22S / RANGE: 34E / SECTION: 29 / LAT: 32.356805 / LONG: -103.484829 (TVD: 11285 feet, MD: 11657 feet)
BHL: NENE / 330 FNL / 380 FEL / TWSP: 22S / RANGE: 34E / SECTION: 29 / LAT: 32.369027 / LONG: -103.4848327 (TVD: 11335 feet, MD: 15949 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

CONFIDENTIAL

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.

CONFIDENTIAL



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

Operator Certification Data Report

08/23/2018

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: 03/14/2018

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

Application Data Report

08/23/2018

APD ID: 10400028383

Submission Date: 03/14/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400028383

Tie to previous NOS?

Submission Date: 03/14/2018

BLM Office: CARLSBAD

User: Rebecca Deal

Title: Regulatory Compliance
Professional

Federal/Indian APD: FED

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

Lease number: NMNM061360

Lease Acres: 960

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

Zip: 73102

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (405)552-6571

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: GAUCHO UNIT

Well Number: 36H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-06
S223421L; BONE SPRING

Pool Name: BONE SPRING

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

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

GAUCHO 29 WELLPAD

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: 804 FT

Distance to lease line: 350 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: GAUCHO_UNIT_36H_C_102_signed_20180717082058.pdf

Well work start Date: 08/25/2018

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 | TVD |
|------------------|---------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|
| SHL Leg #1 | 350 | FSL | 120 5 | FEL | 22S | 34E | 29 | Aliquot SESE | 32.35637 96 | - 103.4875 002 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 061360 | 342 2 | 0 | 0 |
| KOP Leg #1 | 50 | FSL | 380 | FEL | 22S | 34E | 29 | Aliquot SESE | 32.35567 4 | - 103.4848 29 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 061360 | - 729 0 | 107 64 | 107 12 |
| PPP Leg #1 | 330 | FSL | 380 | FEL | 22S | 34E | 29 | Aliquot SESE | 32.35680 5 | - 103.4848 29 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 061360 | - 786 3 | 116 57 | 112 85 |

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

| | 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 | TVD |
|-------------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|---------------|----------------------|--------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|
| EXIT Leg #1 | 330 | FNL | 380 | FEL | 22S | 34E | 29 | Aliquot NENE | 32.36902 7 | - 103.4848 327 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 096050 | - 791 3 | 159 49 | 113 35 |
| BHL Leg #1 | 330 | FNL | 380 | FEL | 22S | 34E | 29 | Aliquot NENE | 32.36902 7 | - 103.4848 327 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 096050 | - 791 3 | 159 49 | 113 35 |



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

Drilling Plan Data Report

08/23/2018

APD ID: 10400028383

Submission Date: 03/14/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|-----------------|-----------|---------------------|----------------|-----------------|-------------------|---------------------|
| 1 | --- | 3434 | 0 | 0 | OTHER : Surface | NONE | No |
| 2 | RUSTLER | 1567 | 1867 | 1867 | SANDSTONE | NONE | No |
| 3 | TOP SALT | 1269 | 2165 | 2165 | SALT | NONE | No |
| 4 | BASE OF SALT | -188 | 3622 | 3622 | SALT | NONE | No |
| 5 | DELAWARE | -1789 | 5223 | 5223 | SANDSTONE | NATURAL GAS,OIL | No |
| 6 | BRUSHY CANYON | -3676 | 7110 | 7110 | SANDSTONE | NATURAL GAS,OIL | No |
| 7 | BONE SPRINGS | -5036 | 8470 | 8470 | LIMESTONE | NATURAL GAS,OIL | No |
| 8 | BONE SPRING 1ST | -6046 | 9480 | 9480 | SANDSTONE | NATURAL GAS,OIL | No |
| 9 | BONE SPRING 2ND | -6579 | 10013 | 10013 | SANDSTONE | NATURAL GAS,OIL | Yes |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 11335

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:

Gaucha_Unit_36H_3M_BOPE_CK_20180314133304.pdf

ACCESS ROAD PLAT
ACCESS ROAD FOR GAUCHO UNIT 36H & 59H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
FEBRUARY 27, 2018

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS S71°51'18"W, A DISTANCE OF 1789.34 FEET;

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS S71°51'18"W, A DISTANCE OF 1789.34 FEET;
THENCE N89°31'59"E A DISTANCE OF 99.59 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N44°33'55"E A DISTANCE OF 50.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°24'10"W A DISTANCE OF 69.55 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS S51°20'05"E, A DISTANCE OF 1031.31 FEET;

SAID STRIP OF LAND BEING 219.16 FEET OR 13.28 RODS IN LENGTH, CONTAINING 0.151 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 219.16 L.F. 13.28 RODS 0.151 ACRES

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT 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 27TH DAY OF FEBRUARY 2018

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

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 SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

FILMON F. JARAMILLO P.E.S. 12797

SURVEY NO. 4130D

301 SOUTH CANAL
(575) 234-3341

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

GaUCHO_Unit_36H_3M_BOPE_CK_20180314133304.pdf

BOP Diagram Attachment:

GaUCHO_Unit_36H_3M_BOPE_CK_20180314133337.pdf

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:

GaUCHO_Unit_36H_3M_BOPE_CK_20180314133419.pdf

BOP Diagram Attachment:

GaUCHO_Unit_36H_3M_BOPE_CK_20180314133442.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 | 20 | 16.0 | NEW | API | N | 0 | 1860 | 0 | 1860 | | | 1860 | J-55 | 75 | OTHER - BTC | 1.125 | 1 | BUOY | 1.6 | BUOY | 1.6 |
| 2 | INTERMEDIATE | 13.5 | 11.875 | NEW | API | N | 0 | 3500 | 0 | 3500 | | | 3500 | OTHER | 71.8 | OTHER - VAM HD-L | 1.125 | 1 | BUOY | 1.6 | BUOY | 1.6 |
| 3 | INTERMEDIATE | 10.625 | 8.625 | NEW | API | N | 0 | 5250 | 0 | 5250 | | | 5250 | OTHER | 32 | LTC | 1.125 | 1 | BUOY | 1.6 | BUOY | 1.6 |
| 4 | PRODUCTION | 7.875 | 5.5 | NEW | API | N | 0 | 15949 | 0 | 11335 | | | 15949 | P-110 | 17 | OTHER - BTC | 1.125 | 1 | BUOY | 1.6 | BUOY | 1.6 |

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GaUCHO_Unit_36H_Surf_Csg_Ass_20180314133554.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GaUCHO_Unit_36H_Int_Csg_Ass_20180314133627.pdf

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GaUCHO_Unit_36H_Int_Csg_Ass_20180314133659.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

GaUCHO_Unit_36H_Prod_Csg_Ass_20180314133807.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|------------------|-----------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| SURFACE | Lead | | 0 | 1360 | 1079 | 1.73 | 13.5 | 1867 | 75 | C | 100% Class C Cement: 4% BWOC Bentonite + 0.125 lbs/sack Poly-E-Flake |
| SURFACE | Tail | | 1360 | 1860 | 584 | 1.33 | 14.8 | 777 | 75 | C | 0.125 lbs/sack Poly-E-Flake |
| INTERMEDIATE | Lead | | 0 | 3000 | 696 | 1.87 | 12.9 | 1302 | 50 | C | Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| INTERMEDIATE | Tail | | 3000 | 3500 | 157 | 1.33 | 14.8 | 209 | 50 | C | 0.125 lbs/sack Poly-E-Flake |
| INTERMEDIATE | Lead | | 0 | 4750 | 587 | 1.96 | 12.5 | 1151 | 25 | C | Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| INTERMEDIATE | Tail | | 4750 | 5250 | 112 | 1.18 | 15.6 | 132 | 25 | C | 0.125 lbs/sack Poly-E-Flake |
| PRODUCTION | Lead | | 4750 | 1076 4 | 338 | 2.81 | 11 | 950 | 10 | NEOCEM | N/A |
| PRODUCTION | Tail | | 1076 4 | 1594 9 | 678 | 1.47 | 13.2 | 997 | 10 | NEOCEM | N/A |

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0 | 1860 | WATER-BASED MUD | 8.6 | 8.8 | | | | 2 | | | |
| 5250 | 1594 9 | SALT SATURATED | 8.5 | 9 | | | | 12 | | | |
| 1860 | 3500 | SALT SATURATED | 10 | 10.2 | | | | 2 | | | |
| 3500 | 5250 | SALT SATURATED | 8.8 | 10 | | | | 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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5305

Anticipated Surface Pressure: 2811.3

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

GaUCHO_Unit_36H_H2S_Plan_20180314134316.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

GaUCHO_Unit_36H_Dir_Svy_20180314134337.pdf

Other proposed operations facets description:

DIRECTIONAL SURVEY & AC PLAN
MULTI-BOWL VERBIAGE
MULTI-BOWL WELLHEAD
CLOSED LOOP DESIGN
CO-FLEX
DRILLING PLAN W/ CONTINGENCY PLAN
SPUDDER RIG
GCP FORM

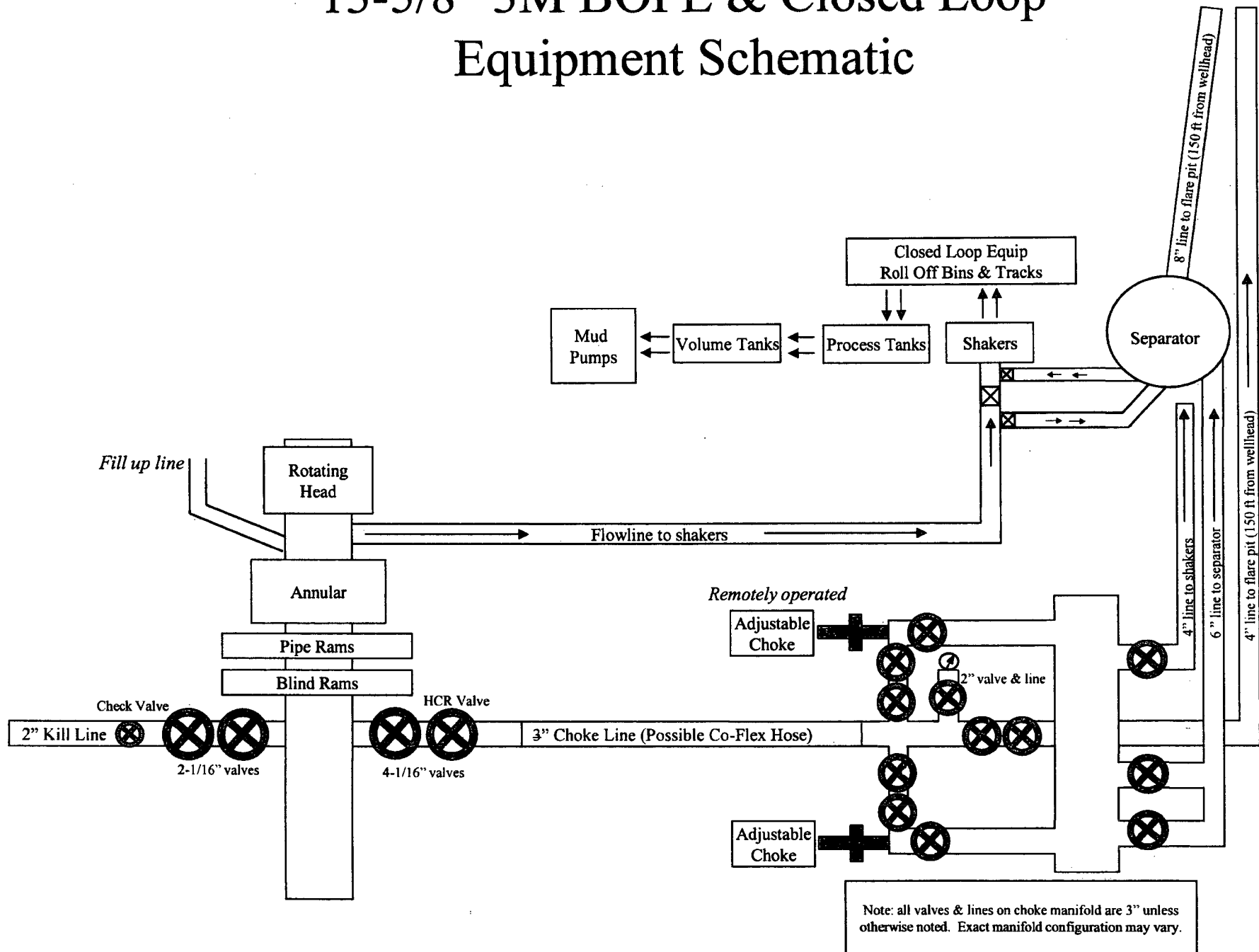
Other proposed operations facets attachment:

GaUCHO_Unit_36H_Clsd_Loop_20180314134419.pdf
GaUCHO_Unit_36H_MB_Verb_20180314134720.pdf
GaUCHO_Unit_36H_MB_Wellhd_3M_4_STRING__1__20180314134721.pdf
GaUCHO_Unit_36H_Spudder_20180314134721.pdf
GaUCHO_Unit_36H_GCP_Form_20180702131915.pdf
GaUCHO_Unit_36H_Drlg_Plan_w_Cont_20180717120700.pdf

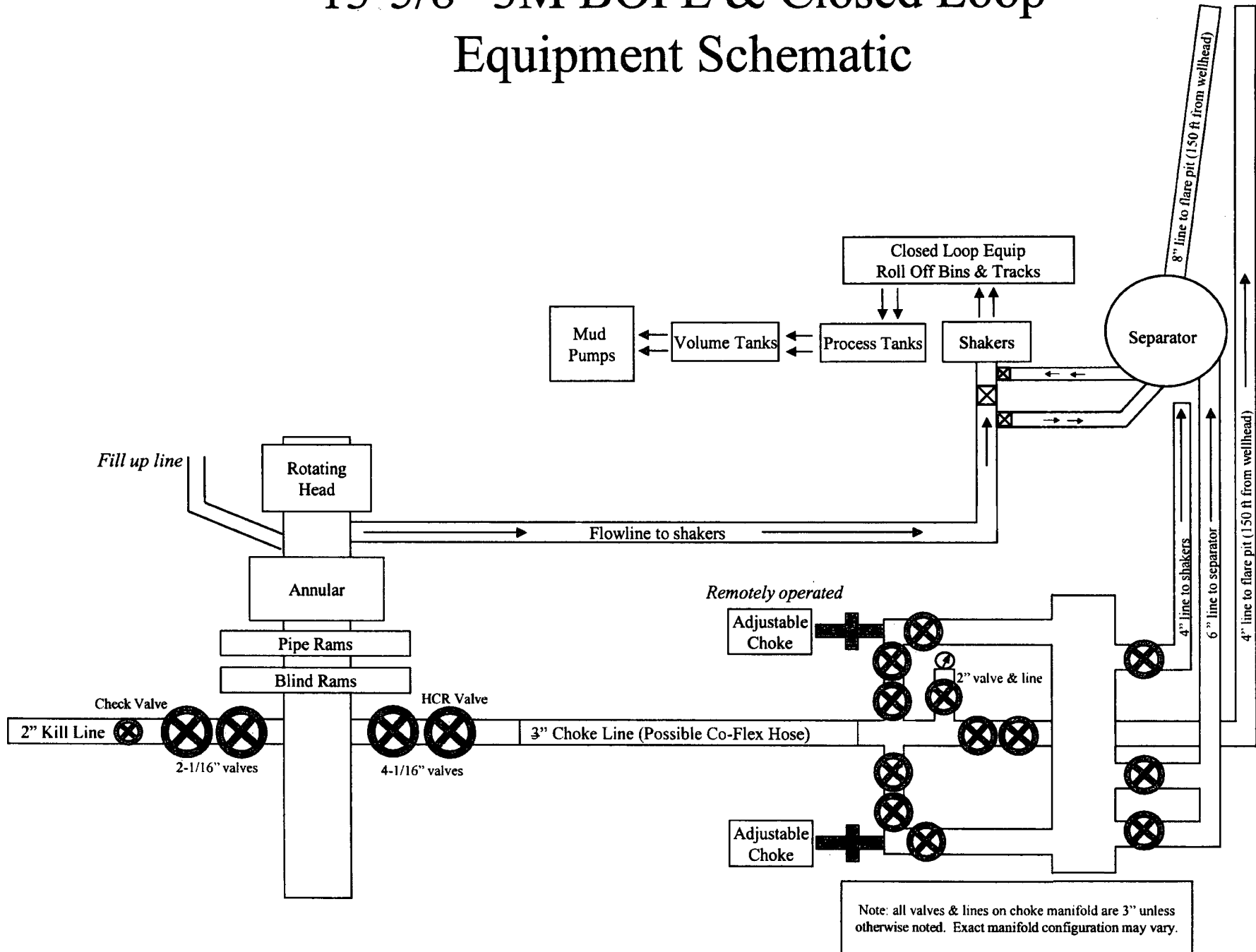
Other Variance attachment:

GaUCHO_Unit_36H_Co_flex_20180314134740.pdf

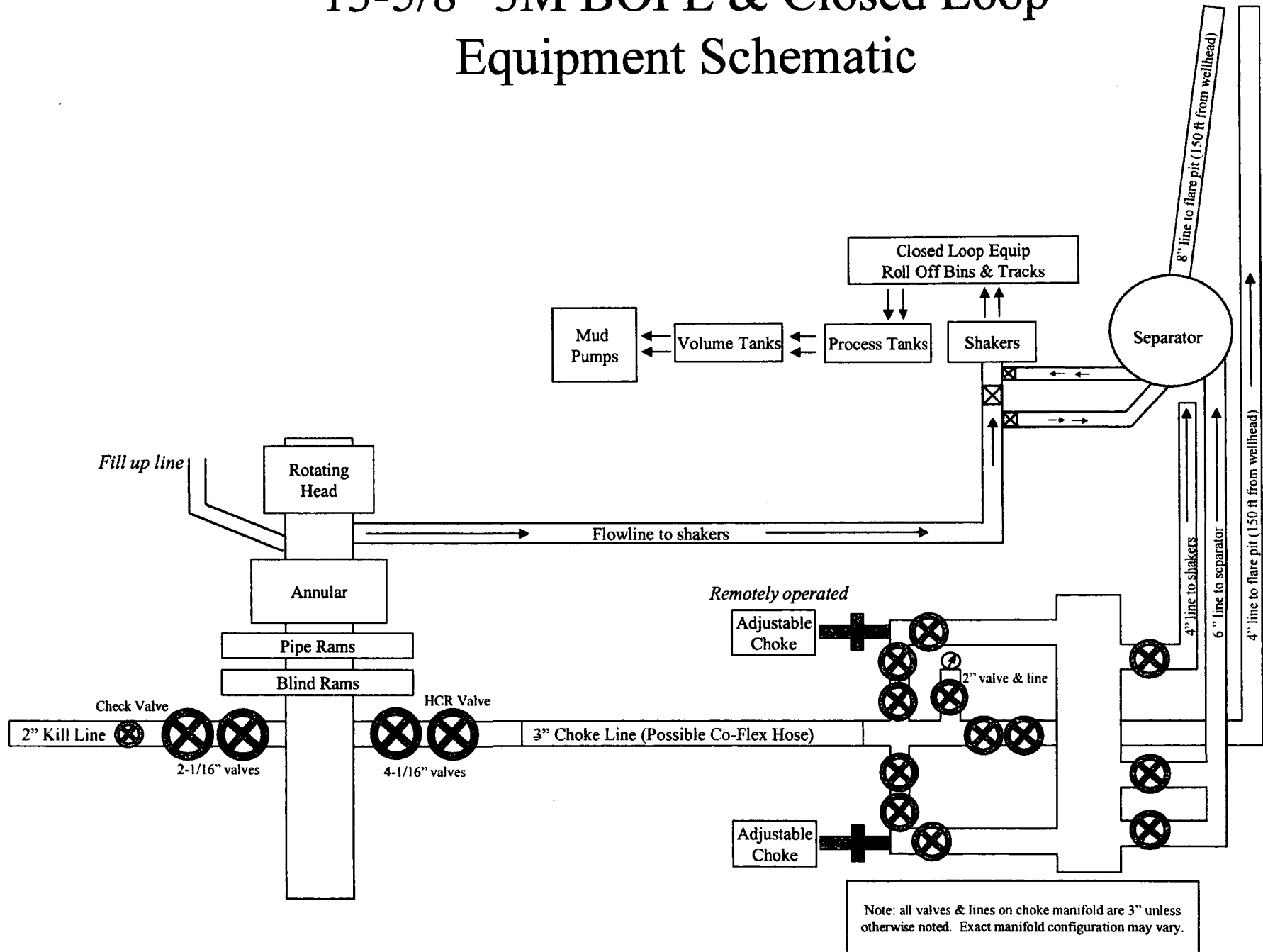
13-5/8" 3M BOPE & Closed Loop Equipment Schematic



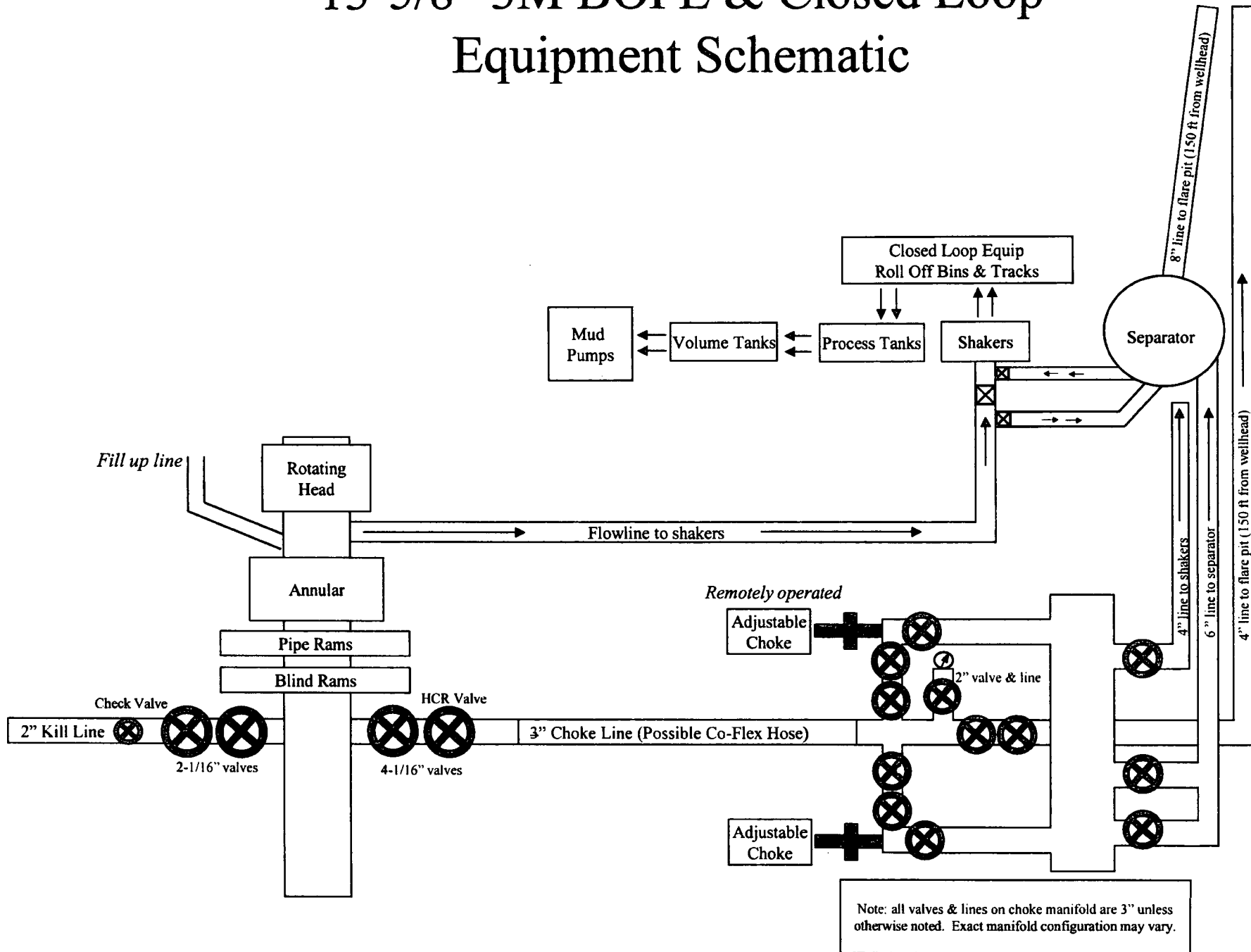
13-5/8" 3M BOPE & Closed Loop Equipment Schematic



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



Casing Assumptions and Load Cases

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 |

Casing Assumptions and Load Cases

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 |

Casing Assumptions and Load Cases

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 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 |

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-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 |



Quotation

MIDLAND WAREHOUSE
8001 GROENING STREET
ODESSA TX 79765
Phone: 432-653-0306

Quote Number : ODE0001941

Date: 12/01/2017

Valid For 30 Days

Page 2 of 7

| | | Quantity | Price | Ext Price |
|------------------------------|---|----------|-----------|------------------|
| CASING HEAD ASSEMBLY | | | | |
| 1 | 122465 CSGHD,CW,C2,16-3/4 3M X 16 SOW,W/2 2-1/16 5M FP,ORING,15.25 MIN BORE & 34.0 BASEPLATE,W/6 GUSSETS,W/2 4 X 3 GROUT SLOTS,6A-PU-EE-NL-1-2 | 1.00 | 13,439.00 | 13,439.00 |
| 2 | 610003 VLV,CW1,2-1/16 3/5M FE AA/DD-NL (API 6A LU AA/DD-NL PSL1 PR2) | 1.00 | 759.00 | 759.00 |
| 3 | VR2 VR PLUG,CW,1-1/2 (1.900) SHARP VEE X 1-1/4 HEX,API 6A-DD-NL | 1.00 | 39.12 | 39.12 |
| 4 | 200002 FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-NL-1 | 2.00 | 73.60 | 147.20 |
| 5 | BP2T BULL PLUG,CW,2 LP X 1/2 LP.API 6A DD-NL | 2.00 | 25.04 | 50.08 |
| 6 | FTG1 FTG,GRS. VENTED CAP,1/2 NPT,ALLOY NON-NACE | 1.00 | 6.85 | 6.85 |
| 7 | R24 RING GASKET,R24,2-1/16 3/5M | 3.00 | 5.48 | 16.44 |
| 8 | 780067 STUD,ALL-THD W/2 NUTS,BLK,7/8-9UNC X 6-1/2,A193 GR B7/A194 GR 2H,NO PLATING | 8.00 | 2.35 | 18.80 |
| | | | | 14,476.49 |
| 16" RENTAL TOOLS | | | | |
| 9 | AR4 Advance Rental Charge 45 Day 16" CONVENTIONAL RENTAL TOOLS = \$ 950.00 PER WELL FOR 45 DAYS; \$35.00 PER DAY THEREAFTER RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS: PN 104884: COMB TEST PLUG/RET TOOL,CW,16-3/4 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS,FAB PN 113590: WBUSH,CW,C2-(BP),16-3/4 X 15.25 ID X 12.0 LG,W/ORING GROOVE NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. | 1.00 | 950.00 | 950.00 |
| | | | | 950.00 |
| CASING SPOOL ASSEMBLY | | | | |
| 10 | 122501 CSGSPL,CW,C2-DBLHPS,11-7/8,16-3/4 3M X 13-5/8 5M,W/2 2-1/16 5M FP,FRG,6A-PU-AA-1-2 | 1.00 | 12,435.00 | 12,435.00 |
| 11 | 610003 VLV,CW1,2-1/16 3/5M FE AA/DD-NL (API 6A LU AA/DD-NL PSL1 PR2) | 2.00 | 759.00 | 1,518.00 |



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8001 GROENING STREET
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Page 3 of 7

| | | Quantity | Price | Ext Price |
|----|---|----------|----------|------------------|
| 12 | VR2 VR PLUG,CW,1-1/2 (1.900) SHARP VEE X 1-1/4 HEX,API 6A-DD-NL | 1.00 | 39.12 | 39.12 |
| 13 | 200002 FLG,COMP,CW,2-1/16 5M X 2 LP,6A-KU-EE-NL-1 | 2.00 | 73.60 | 147.20 |
| 14 | BP2T BULL PLUG,CW,2 LP X 1/2 LP,API 6A DD-NL | 2.00 | 25.04 | 50.08 |
| 15 | FTG1 FTG,GRS,VENTED CAP,1/2 NPT,ALLOY NON-NACE | 1.00 | 6.85 | 6.85 |
| 16 | R24 RING GASKET,R24,2-1/16 3/5M | 4.00 | 5.48 | 21.92 |
| 17 | 780067 STUD,ALL-THD W/2 NUTS,BLK,7/8-9UNC X 6-1/2,A193 GR B7/A194 GR 2H,NO PLATING | 16.00 | 2.35 | 37.60 |
| 18 | 109865 CSGHGR,C21,16-3/4 X 11-7/8,6A-PU-AA-3-1 | 1.00 | 4,775.00 | 4,775.00 |
| 19 | 122499 PRISEAL,H,16-3/4 X 11-7/8,6A-U-AA-1-1 | 1.00 | 1,550.00 | 1,550.00 |
| 20 | R66 RING GASKET,R66,16-3/4 3M | 1.00 | 78.22 | 78.22 |
| 21 | 780087 STUD,ALL-THD W/2 NUTS,BLK,1-5/8-8UN X 12-3/4,A193 GR B7/A194 GR 2H,NO PLATING | 20.00 | 30.00 | 600.00 |
| | | | | 21,258.99 |

13" RENTAL TOOLS

| | | | | | |
|----|-----|------------------------------|------|--------|--------|
| 22 | AR4 | Advance Rental Charge 45 Day | 1.00 | 650.00 | 650.00 |
|----|-----|------------------------------|------|--------|--------|

13" CONVENTIONAL RENTAL TOOLS = \$ 650.00 PER WELL FOR 45 DAYS; \$20.00 PER DAY THEREAFTER

RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS:

PN 104467: COMB TEST PLUG/RET TOOL,CW,13-5/8 X 4-1/2 IF(NC50) BOX BTM & TOP, W/1-1/4 LP BYPASS & SPRING LOADED DOGS

PN 102232: WBUSH,CW,C2-(BP),13-5/8 X 12.50 ID X 12 LG,W/ORING GROOVE

NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT.

650.00



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Date: 12/01/2017

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Page 4 of 7

| | | Quantity | Price | Ext Price |
|------------------------------|---|----------|----------|-----------|
| CASING SPOOL ASSEMBLY | | | | |
| 23 | 115405 CSGSPL,CW,C2-BP-HPS,12-5/8,13-5/8 5M X 11 10M,W/2 1-13/16 10M FP,RND BAR,6A-PU-AA-1-2 | 1.00 | 7,000.00 | 7,000.00 |
| 24 | 103605 SECSEAL,CW,HPS,12-5/8 X 8-5/8,F/3-1/2 CUTOFF,NACE | 1.00 | 785.00 | 785.00 |
| 25 | 107412 VLV,CW,SB100,1-13/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2) QPQ TRIM, API 6A PR2 ANNEX F | 2.00 | 1,650.00 | 3,300.00 |
| 26 | VR1 VR PLUG,CW,1-1/4 (1.660) LP X 1-1/4 HEX,API 6A-DD-NL | 1.00 | 39.12 | 39.12 |
| 27 | 200010 FLG,COMP,1-13/16 10M X 2 LP,5000 PSI MAX WP,4130 60K,6A-KU-EE-NL-1 | 2.00 | 74.33 | 148.66 |
| 28 | BP2T BULL PLUG,CW,2 LP X 1/2 LP,API 6A DD-NL | 2.00 | 25.04 | 50.08 |
| 29 | FTG1 FTG,GRS. VENTED CAP,1/2 NPT,ALLOY NON-NACE | 1.00 | 6.85 | 6.85 |
| 30 | BX151 RING GASKET,BX151,1-13/16 10/15/20M | 4.00 | 6.26 | 25.04 |
| 31 | 780080 STUD,ALL-THD W/2 NUTS,BLK,3/4-10UNC X 5-1/2,A193 GR B7/A194 GR 2H,NO PLATING | 16.00 | 1.96 | 31.36 |
| 32 | BX160 RING GASKET,BX160,13-5/8 5M | 1.00 | 78.30 | 78.30 |
| 33 | 780087 STUD,ALL-THD W/2 NUTS,BLK,1-5/8-8UN X 12-3/4,A193 GR B7/A194 GR 2H,NO PLATING | 16.00 | 30.00 | 480.00 |
| 34 | NVA NEEDLE VALVE,MFA,1/2 10M | 1.00 | 47.25 | 47.25 |
| 35 | PG5M PRESSURE GAUGE,5M,4-1/2 FACE,LIQUID FILLED,1/2 NPT | 1.00 | 47.88 | 47.88 |
| 36 | 103603 CSGHGR,C21,13-5/8 X 8-5/8 | 1.00 | 1,365.00 | 1,365.00 |
| 37 | 103611 PRISEAL,H,13-5/8 X 8-5/8 | 1.00 | 747.00 | 747.00 |



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Quote Number : ODE0001941

Date: 12/01/2017

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Page 5 of 7

| | | Quantity | Price | Ext Price |
|--|----------------------------------|----------|----------|-----------|
| | | | | 14,151.54 |
| 11" RENTAL TOOLS | | | | |
| 38 | AR4 Advance Rental Charge 45 Day | 1.00 | 650.00 | 650.00 |
| 11" CONVENTIONAL RENTAL TOOLS = \$ 650.00 PER WELL FOR 45 DAYS; \$20.00 PER DAY THEREAFTER | | | | |
| RENTAL TOOLS INCLUDE THE FOLLOWING ITEMS: | | | | |
| PN 800001: COMB TEST PLUG/RET TOOL,CW,11 X 4-1/2 IF (NC50) BOX BTM & TOP,W/1-1/4 LP BYPASS & SPRING LOADED DOGS | | | | |
| PN 220004: WBUSH,CW,C2-(BP),11 OD X 9 ID X 12 LG,W/ORING GROOVE | | | | |
| NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL TOOLS. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. | | | | |
| 39 | RNM Rental Charge Minimum | 0.00 | 65.00 | 0.00 |
| STUDDER TA CAP RENTAL = \$65.00 PER DAY | | | | |
| PN 107928: TA CAP,CW,5-1/2,11 10M FLG,W/2 LP OUTLET,F/5.75 CUTOFF,5000 PSI MAX WP,6A-PU-EE-NL-1-1 | | | | |
| NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. | | | | |
| | | | | 650.00 |
| DSPA ASSEMBLY | | | | |
| 40 | 110046 | 1.00 | 7,665.00 | 7,665.00 |
| DSPA,CW,DBLHPS,5-1/2,11 10M X 7-1/16 10M,W/1 1-13/16 10M FP,VR THD & 7 SEAL PKT TOP,W/5 HBPV,6A-PU-EE-NL-1-1 | | | | |
| 41 | 107412 | 1.00 | 1,650.00 | 1,650.00 |
| VLV,CW,SB100,1-13/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR2) QPQ TRIM, API 6A PR2 ANNEX F | | | | |
| 42 | 100981 | 1.00 | 550.00 | 550.00 |
| ADPT,FH,1-13/16 10M X 2 FIG 1502 X 1/2 NPT,NACE SVC | | | | |
| 43 | BX151 | 2.00 | 6.26 | 12.52 |
| RING GASKET,BX151,1-13/16 10/15/20M | | | | |
| 44 | 780080 | 8.00 | 1.96 | 15.68 |
| STUD,ALL-THD W/2 NUTS,BLK,3/4-10UNC X 5-1/2,A193 GR B7/A194 GR 2H.NO PLATING | | | | |
| 45 | BX158 | 1.00 | 91.35 | 91.35 |
| RING GASKET,BX158,11 10/15/20M | | | | |
| 46 | NVA | 1.00 | 47.25 | 47.25 |
| NEEDLE VALVE,MFA,1/2 10M | | | | |
| 47 | PG10M | 1.00 | 47.88 | 47.88 |
| PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT | | | | |



Quotation

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Page 6 of 7

| | | Quantity | Price | Ext Price |
|-----------------------------|--|----------|----------|------------------|
| 48 | BPV5T BPV,H.5 ONE WAY,4130,HYDRO TESTED & API 6A MONOGRAM NOTE: OPTIONAL SALE ITEM; PRICE NOT INCLUDED IN TOTAL OPTIONAL RENTAL RATE = \$90.00 PER DAY | 0.00 | 2,950.00 | 0.00 |
| 49 | 50019 CSGHGR,C22,11 X 5-1/2 | 1.00 | 690.00 | 690.00 |
| | | | | 10,769.68 |
| TUBING HEAD ASSEMBLY | | | | |
| 50 | 191012 TBGHD,CW,CTH-EN,7,7-1/16 10M FLG X 7-1/16 10M FLG,W/2 1-13/16 10M FP,17-4PH LDS,34.0 LG,6A-PU-EE-0.5-1-1 | 1.00 | 7,999.00 | 7,999.00 |
| 51 | 107412 VLV,CW,SB100,1-13/16 10M FE BB/EE-0.5 (API 6A LU BB/EE-0.5 PSL3 PR2) QPQ TRIM, API 6A PR2 ANNEX F | 4.00 | 1,650.00 | 6,600.00 |
| 52 | 200010 FLG,COMP,1-13/16 10M X 2 LP,5000 PSI MAX WP,4130 60K,6A-KU-EE-NL-1 | 2.00 | 74.33 | 148.66 |
| 53 | BP2T BULL PLUG,CW,2 LP X 1/2 LP,API 6A DD-NL | 2.00 | 25.04 | 50.08 |
| 54 | FTG1 FTG,GRS,VENTED CAP,1/2 NPT,ALLOY NON-NACE | 1.00 | 6.85 | 6.85 |
| 55 | BX151 RING GASKET,BX151,1-13/16 10/15/20M | 6.00 | 6.26 | 37.56 |
| 56 | 780080 STUD,ALL-THD W/2 NUTS,BLK,3/4-10UNC X 5-1/2,A193 GR B7/A194 GR 2H.NO PLATING | 32.00 | 1.96 | 62.72 |
| 57 | BX156 RING GASKET,BX156,7-1/16 10/15/20M | 1.00 | 31.30 | 31.30 |
| 58 | 105119 SEAL SUB,CW,7 X 7.38 LG,W/5.13 ID,6A-PU-EE-NL-1 | 1.00 | 704.21 | 704.21 |
| 59 | NVA NEEDLE VALVE,MFA,1/2 10M | 1.00 | 47.25 | 47.25 |
| 60 | PG10M PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT | 1.00 | 47.88 | 47.88 |

15,735.51



Quotation

MIDLAND WAREHOUSE
8001 GROENING STREET
ODESSA TX 79765
Phone: 432-653-0306

Quote Number : ODE0001941

Date: 12/01/2017

Valid For 30 Days

Page 7 of 7

| | | Quantity | Price | Ext Price |
|---|---------------------------|----------|-------|-----------|
| RENTAL BLIND FLANGE | | | | |
| 61 | RNM Rental Charge Minimum | 1.00 | 15.00 | 15.00 |
| RENTAL BLIND FLANGE = \$ 15.00 PER DAY | | | | |
| RENTAL INCLUDES THE FOLLOWING ITEM: | | | | |
| PN 191003: FLG,BLIND,CW,7-1/16 10M X 1/2 LP,4.53 LG,W/FOUR 3/4-10UNC-2B LIFT THREADS,6A-PU-EE-NL-1-1 | | | | |
| NOTE: CUSTOMER IS RESPONSIBLE FOR LOST, DAMAGED OR BEYOND REPAIR RENTAL EQUIPMENT. RENTAL CHARGES MAY NOT BE APPLIED TO THE PURCHASE PRICE OF EQUIPMENT. | | | | |
| | | | | 15.00 |

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For Acceptance of this Quotation
Please Contact Ph: 713-626-8800
sales@cactuswellhead.com

| | |
|-------------------|-----------|
| Matl: | 76,392.21 |
| Labor: | 0.00 |
| Misc: | 2,265.00 |
| Sales Tax: | 0.00 |
| Total: | 78,657.21 |

Devon Energy, Gaucho Unit 36H

1. Geologic Formations

| | | | |
|---------------|-------|-------------------------------|-----|
| TVD of target | 11335 | Pilot hole depth | N/A |
| MD at TD: | 15949 | Deepest expected fresh water: | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* |
|---------------------------|---------------------------|--|----------|
| Rustler | 1810 | | |
| Top of Salt | 2000 | | |
| Base of Salt | 3425 | | |
| Capitan | 3873 | | |
| Delaware | 5200 | | |
| Brushy Canyon | 7420 | | |
| 1 st BSPG Lime | 8525 | | |
| 1 st BSPG Sand | 9550 | | |
| 2 nd BSPG Sand | 10120 | | |
| 3 rd BSPG Lime | 10507 | | |
| 3 rd BSPG Sand | 11232 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

Devon Energy, Gaucho Unit 36H

2. Casing Program (Primary Design)

| Hole Size | Casing Interval | | Csg. Size | Weight (lbs) | Grade | Conn | Min SF Collapse | Min SF Burst | Min SF Tension |
|---------------------------|-----------------|--------|-----------|--------------|----------|----------|-----------------|--------------|--------------------|
| | From | To | | | | | | | |
| 20" | 0' | 1,860 | 16" | 75 | J-55 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 13.5" | 0 | 3,500' | 11.875" | 71.8 | Q-125 HC | Vam HD-L | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 10.625" | 0 | 5,250' | 8.625" | 32 | K55 HC | LTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 7.875" | 0 | TD | 5.5" | 17 | P110 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| BLM Minimum Safety Factor | | | | | | | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- Variance is requested for collapse rating on intermediate 1 and 2 casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the intermediate and production casing strings if drilling conditions dictate.

Casing Program (Alternate Design)

| Hole Size | Casing Interval | | Csg. Size | Weight (lbs) | Grade | Conn | Min SF Collapse | Min SF Burst | Min SF Tension |
|---------------------------|-----------------|--------|-----------|--------------|-------|------|-----------------|--------------|--------------------|
| | From | To | | | | | | | |
| 26" | 0 | 1,500' | 20" | 106.5 | J-55 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| | | 1,850' | 20" | 133 | J-55 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 17.5" | 0 | 3,500' | 13.375" | 68 | J-55 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 12.25" | 0 | 5,250' | 9.625" | 40 | J-55 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| 8.75" | 0 | TD | 5.5" | 17 | P110 | BTC | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |
| BLM Minimum Safety Factor | | | | | | | 1.125 | 1.00 | 1.6 Dry 1.8 Wet |

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- Variance is requested for collapse rating on intermediate 1 and 2 casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.

Devon Energy, Gaucho Unit 36H

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

Devon Energy, Gaucho Unit 36H

3. Cementing Program (Primary Design)

| Casing | # Sks | Wt. lb/gal | H ₂ O gal/sk | Yld ft ³ /sack | 500# Comp. Strength (hours) | Slurry Description |
|------------------------|-------|------------|-------------------------|---------------------------|-----------------------------|--|
| 16" Surface | 1079 | 13.5 | 9.22 | 1.73 | 12 | Lead: 100% Class C Cement: 4% BWOC Bentonite + 0.125 lbs/sack Poly-E-Flake |
| | 584 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 16" Surface Top Out | 1200 | 14.8 | 6.32 | 1.33 | 6 | Primary: Neat Class C Cement |
| 11.875" Int 1 | 696 | 12.9 | 9.81 | 1.87 | 14 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 157 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 11.875" Int 1 Top Out | 2235 | 13.5 | 9.22 | 1.73 | 12 | Lead: 100% Class C Cement: 4% BWOC Bentonite + 0.125 lbs/sack Poly-E-Flake |
| 8.625" Int 2 | 587 | 12.5 | 10.89 | 1.96 | 20 | Lead: (65:35) Class H Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 112 | 15.6 | 5.28 | 1.18 | 7.5 | Tail: Class H Cement + 0.125 lbs/sack Poly-E-Flake |
| 8.625" Int 2 Two Stage | 390 | 12.5 | 9.81 | 1.87 | 14 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 55 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| | 135 | 12.5 | 10.89 | 1.96 | 20 | Lead: (65:35) Class H Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 120 | 15.6 | 5.28 | 1.18 | 7.5 | Tail: Class H Cement + 0.125 lbs/sack Poly-E-Flake |
| 5.5" Prod | 338 | 11 | 17.38 | 2.81 | 20 | Lead: NeoCem® |
| | 678 | 13.2 | 7.46 | 1.47 | 6 | Tail: NeoCem® |

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

| Casing String | TOC | % Excess |
|-----------------------------------|--|----------|
| 16" Surface | 0ft | 75% |
| 11.875" Intermediate 1 | 0ft | 50% |
| 8.625" Intermediate 2 | 0ft | 25% |
| 8.625" Intermediate 2 (Two Stage) | 1 st Stage = 3550ft / 2 nd Stage = 0ft | 25% |
| 5.5" Prod | 4750' | 10% |

Devon Energy, Gaucho Unit 36H

Cementing Program (Alternate Design)

| Casing | # Sks | Wt. lb/ gal | H ₂ O gal/sk | Yld ft ³ / sack | 500# Comp. Strength (hours) | Slurry Description |
|----------------------------------|------------------|-------------------|----------------------------|----------------------------------|--------------------------------------|--|
| 20" Surface | 2695 | 13.7 | 8.89 | 1.73 | 7 | Lead: Class C Cement + 2% Bentonite + 5lb/sk Salt |
| | 1200 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 20" Surface Top Out | 1200 | 14.8 | 6.32 | 1.33 | 6 | Primary: Neat Class C Cement |
| 13.375" Int 1 | 618 | 12.9 | 9.81 | 1.87 | 14 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 504 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 13.375" Int 1 Two Stage | 1020 | 12.9 | 9.81 | 1.87 | 14 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 390 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| | DV Tool = 1960ft | | | | | |
| | 915 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 9.625" Int 2 | 423 | 12.9 | 9.81 | 1.87 | 14 | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 177 | 14.8 | 6.32 | 1.33 | 6 | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 9.625" Int 2 Two Stage | 310 | 12.9 | 9.81 | 1.87 | 14 | Lead Stage 1: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 313 | 14.8 | 6.32 | 1.33 | 6 | Tail Stage 1: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| | 585 | 12.9 | 9.81 | 1.87 | 14 | Lead Stage 2: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake |
| | 85 | 14.8 | 6.32 | 1.33 | 6 | Tail Stage 2: Class C Cement + 0.125 lbs/sack Poly-E-Flake |
| 5.5" Prod | 523 | 11 | 17.38 | 2.811 | 20 | Lead: NeoCem® |
| | 1571 | 13.2 | 7.46 | 1.468 | 6 | Tail: NeoCem® |

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

| Casing String | TOC | % Excess |
|----------------------------------|--|----------|
| 20" Surface | 0ft | 100% |
| 13.375" Intermediate | 0ft | 75% |
| 13.375" Intermediate (Two Stage) | 1 st Stage = 1960ft / 2 nd Stage = 0ft | 75% |
| 9.625" Intermediate | 0ft | 50% |
| 9.625" Intermediate (Two Stage) | 1 st Stage = 3450ft / 2 nd Stage = 0ft | 50% |
| 5.5" Prod | 4750' | 10% |

Devon Energy, Gaucho Unit 36H

4. Pressure Control Equipment (Primary Casing Design)

| BOP installed and tested before drilling which hole? | Size | Min Required WP | Type | ✓ | Tested to: |
|--|---------|-----------------|------------|---|----------------------|
| 13-1/2" | 13-5/8" | 3M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 3M |
| | | | Pipe Ram | | |
| | | | Double Ram | | |
| | | | Other* | | |
| 10-5/8" | 13-5/8" | 3M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 3M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |
| 7-5/8" | 13-5/8" | 3M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 3M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |

*Specify if additional ram is utilized.

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

Pressure Control Equipment (Alternate Casing Design)

| BOP installed and tested before drilling which hole? | Size | Min Required WP | Type | ✓ | Tested to: |
|--|---------|-----------------|------------|---|-------------------------|
| 17-1/2" | 21-1/4" | 2M | Annular | x | 50% of working pressure |
| | | | Blind Ram | | 2M |
| | | | Pipe Ram | | |
| | | | Double Ram | | |
| | | | Other* | | |
| 12-1/4" | 13-5/8" | 10M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 10M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |
| 8-3/4" | 13-5/8" | 10M | Annular | x | 50% testing pressure |
| | | | Blind Ram | | 10M |
| | | | Pipe Ram | | |
| | | | Double Ram | x | |
| | | | Other* | | |

*Specify if additional ram is utilized.

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

Devon Energy, Gaucho Unit 36H

5. Mud Program

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss |
|--------|--------|-----------------|--------------|-----------|------------|
| From | To | | | | |
| 0 | 1,860' | FW Gel | 8.6-8.8 | 28-34 | N/C |
| 1,860' | 3,500' | Saturated Brine | 10.0 | 28-34 | N/C |
| 3,500' | 5,250' | Cut brine/brine | 8.8-10 | 28-34 | N/C |
| 5,250' | TD | Cut brine | 8.5-9.2 | 28-34 | N/C |

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 4,884 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 |

Devon Energy, Gaucho Unit 36H

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.

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 17½" 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 13-3/8" 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 nipped 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

☒ Directional Plan

☐ Other, describe



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.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/clarifications 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 Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



RIG 212



QUALITY DOCUMENT

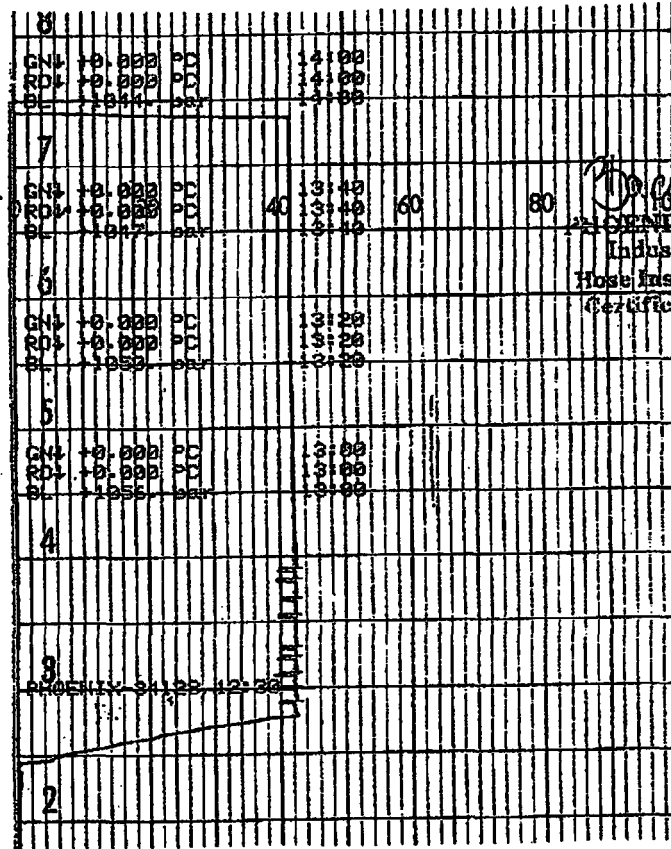
**PHOENIX RUBBER
INDUSTRIAL LTD.**

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 Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.tauruserve.hu

| | | | | | |
|---|-----------|--------------------------------------|--|---------------------|--|
| QUALITY CONTROL INSPECTION AND TEST CERTIFICATE | | | | CERT. N°: 552 | |
| PURCHASER: Phoenix Beattie Co. | | | | P.O. N°: 1519FA-871 | |
| PHOENIX RUBBER order N°: 170466 | | HOSE TYPE: 3" ID Choke and Kill Hose | | | |
| HOSE SERIAL N°: 34128 | | NOMINAL / ACTUAL LENGTH: 11,43 m | | | |
| W.P. 68,96 MPa 10000 psi | | T.P. 103,4 MPa 15000 psi | | Duration: 60 min. | |
| Pressure test with water at ambient temperature <p style="text-align: center;">See attachment. (1 page)</p> | | | | | |
| ↑ 10 mm = 10 Min. → 10 mm = 25 MPa | | | | | |
| COUPLINGS | | | | | |
| Type | Serial N° | | Quality | Heat N° | |
| 3" coupling with 4 1/16" Flange end | 720 719 | | AISI 4130 | C7626 | |
| | | | AISI 4130 | 47357 | |
| | | | | | |
| | | | | | |
| API Spec 16 C Temperature rate: "B" | | | | | |
| All metal parts are flawless | | | | | |
| WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. | | | | | |
| Date: | Inspector | | Quality Control | | |
| 29. April. 2002. | | | PHOENIX RUBBER Industrial Ltd. Hose Inspection and VESSELS TESTING DEPT. PHOENIX RUBBER G.C. | | |

40920-0-00015 N800C 14094-85



[Signature]
PHOENIX RUBBER
 Industrial Ltd.
 Hose Inspection and
 Certification Dept.

VERIFIED TRUE CO.
 PHOENIX RUBBER CO.
[Signature]



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

SUPO Data Report

08/23/2018

APD ID: 10400028383

Submission Date: 03/14/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

GAUCHO_UNIT_36H_Access_Rd_20180314135123.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:

GAUCHO_UNIT_36H_New_Access_Rd_20180314135821.pdf

GaUCHO_Unit_36H_GAUCHO_29_WP_2_PAD_20180717082117.pdf

New road type: LOCAL

Length: 826.1

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:

GAUCHO_UNIT_36H_New_Access_Rd_20180314135921.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Access road engineering design? YES

Access road engineering design attachment:

GAUCHO_UNIT_36H_New_Access_Rd_20180314135900.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: CTB ACCESS RD PLAT ATTACHED IN SEC. 4

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: N/A

Road Drainage Control Structures (DCS) description: Water Drainage Ditch

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:

GaUCHO_Unit_36H_one_mile_map_20180314135958.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: GAUCHO 29 WELLPAD 2 & GAUCHO 30 CTB1 - SEVEN ATTACHMENTS - NEW ACCESS RD/WELLPAD PLAD, CTB ACCESS RD., CTB ELECTRIC, CTB PAD PLAT, WELL PAD PLAT, ELECTRIC AND FLOWLINE (BURIED). GAS, WATER AND CRUDE CONNECTS WILL BE HANDLED BY THIRD PARTY

Production Facilities map:

GAUCHO_36H_CTB_1_PAD_20180314140413.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

GAUCHO_36H_Flowline_Plat_20180314140415.pdf

GAUCHO_26H_WELLPAD_Plat_20180314140421.pdf

GAUCHO_36H_CTB_EL_20180314140422.PDF

GAUCHO_36H_Well_pad_EL_20180314140423.PDF

GAUCHO_UNIT_36H_Access_Rd_CTB_20180705090627.pdf

GaUCHO_Unit_36H_GAUCHO_29_WP_2_PAD_RD_20180717082242.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): 135000

Source volume (acre-feet): 17.400568

Source volume (gal): 5670000

Water source and transportation map:

GAUCHO_UNIT_36H_Water_Map_20180314140505.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 casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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:

GaUCHO_Unit_36H_Caliche_Map_20180314140804.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water Based Cuttings

Amount of waste: 1850 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Disposal type description:

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

Waste type: FLOWBACK

Waste content description: Produced water and flowback water

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: This well will be connected to the GaUCHO SWD system that will dispose water in either one of 3 Devon SWDs or a 3rd party SWD.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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 FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

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

Waste type: PRODUCED WATER

Waste content description: Produced water

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: This well will be connected to the Gaucho SWD system that will dispose water in either one of 3 Devon SWDs or a 3rd party SWD.

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

Are you storing cuttings on location? NO

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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:

GaUCHO_Unit_36H_Well_Location_map_20180314141118.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: GAUCHO 29 WELLPAD

Multiple Well Pad Number: 2

Recontouring attachment:

GaUCHO_Unit_36H_Interim_Rec_20180314141136.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.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

| | | |
|---|---|--|
| Well pad proposed disturbance (acres): 8.266 | Well pad interim reclamation (acres): 6.01 | Well pad long term disturbance (acres): 2.256 |
| Road proposed disturbance (acres): 0.151 | Road interim reclamation (acres): 0 | Road long term disturbance (acres): 0.151 |
| Powerline proposed disturbance (acres): 0.48 | Powerline interim reclamation (acres): 0 | Powerline long term disturbance (acres): 0.48 |
| Pipeline proposed disturbance (acres): 0.717 | Pipeline interim reclamation (acres): 0 | Pipeline long term disturbance (acres): 0.717 |
| Other proposed disturbance (acres): 0 | Other interim reclamation (acres): 0 | Other long term disturbance (acres): 0 |
| Total proposed disturbance: 9.614 | Total interim reclamation: 6.01 | Total long term disturbance: 3.604 |

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

Seed Management

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 | |
|--------------|-------------|
| Seed Type | Pounds/Acre |

Total 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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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: 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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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:

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:

Military Local Office:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GAUCHO UNIT

Well Number: 36H

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,288101 ROW – O&G Facility Sites,289001 ROW- O&G Well Pad,FLPMA (Powerline),Other

ROW Applications

SUPO Additional Information: SEE SEC 4 FOR FACILITY INFO. SEE C-102 PACKET FOR GRADING PLAN

Use a previously conducted onsite? YES

Previous Onsite information: CONDUCTED 10/3/2017

Other SUPO Attachment



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

PWD Data Report

08/23/2018

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:

PWD disturbance (acres):

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:

Describe 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?

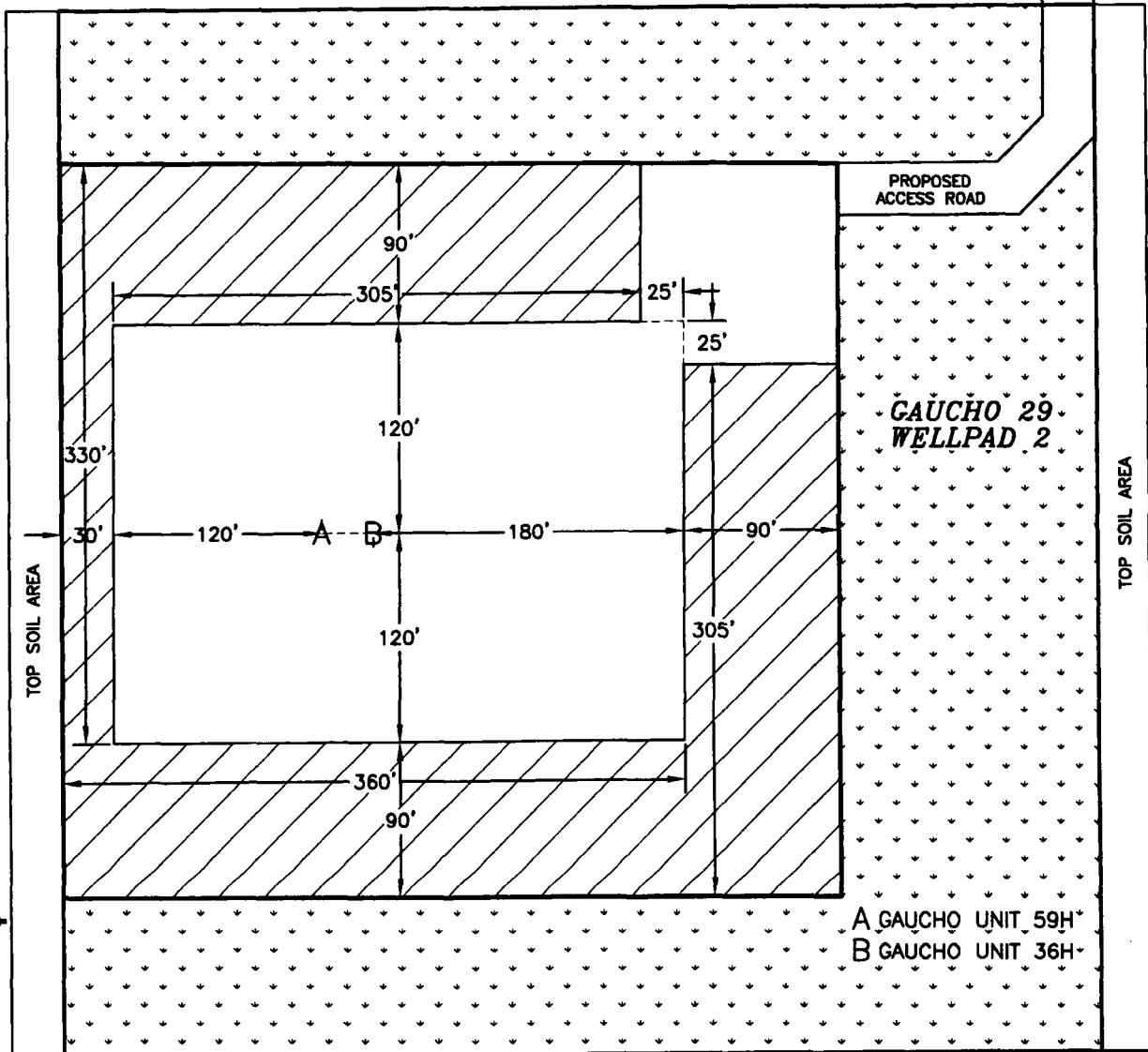
Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

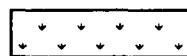
Lined pit bond amount:

Additional bond information attachment:

SECTION 29, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN



DENOTES INTERIM PAD
RECLAMATION AREA



DENOTES GRADING SITE
RECLAMATION AREA

010 50 100 200
SCALE 1" = 100'

2.233± ACRES INTERIM PAD RECLAMATION AREA
3.777± ACRES GRADING SITE RECLAMATION AREA
2.256± ACRES NON-RECLAIMED AREA
8.266± ACRES GAUCHO 29 WELLPAD 2

DEVON ENERGY PRODUCTION COMPANY, L.P.
GAUCHO UNIT 36H

LOCATED 350 FT. FROM THE SOUTH LINE
AND 1205 FT. FROM THE EAST LINE OF
SECTION 29, TOWNSHIP 22 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

FEBRUARY 27, 2018

SURVEY NO. 4130D

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

Section 3 - Unlined Pits

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:

Describe 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:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

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? 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:

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

08/23/2018

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:

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 nipped 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.