

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD  
JUL 11 2018  
RECEIVED

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM019142
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP (6137)		7. If Unit or CA Agreement, Name and No.
3a. Address 333 West Sheridan Avenue Oklahoma City OK		8. Lease Name and Well No. (316229) RIO BLANCO 4-33 FED COM 5H
3b. Phone No. (include area code) (405)552-6571		9. API Well No. 30-025-44962
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWNE / 2567 FNL / 1343 FEL / LAT 32.3338558 / LONG -103.4708602 At proposed prod. zone NENE / 330 FNL / 380 FEL / LAT 32.3545134 / LONG -103.4677158		10. Field and Pool, or Exploratory (97922) WC-025 G-06 S223421L; BONE SPRING
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area SEC 4 / T23S / R34E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 73 feet	16. No. of acres in lease 560.12	12. County or Parish LEA
17. Spacing Unit dedicated to this well 240	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, 3207 feet applied for, on this lease, ft.	19. Proposed Depth 10150 feet / 17524 feet	20. BLM/BIA Bond No. on file FED: CO1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3398 feet	22. Approximate date work will start* 06/20/2018	23. Estimated duration 45 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429	Date 01/04/2018
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 05/04/2018
Title Petroleum Engineer 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.

(Continued on page 2)

\*(Instructions on page 2)

APPROVED WITH CONDITIONS  
Approval Date: 05/04/2018

KZ  
07/11/18

## INSTRUCTIONS

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

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

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

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

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

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

## NOTICES

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

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

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

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

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

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

## Additional Operator Remarks

### Location of Well

1. SHL: SWNE / 2567 FNL / 1343 FEL / TWSP: 23S / RANGE: 34E / SECTION: 4 / LAT: 32.3338558 / LONG: -103.4708602 ( TVD: 0 feet, MD: 0 feet )  
PPP: SESE / 330 FSL / 380 FEL / TWSP: 22S / RANGE: 34E / SECTION: 33 / LAT: 32.33527 / LONG: -103.46774 ( TVD: 10145 feet, MD: 10521 feet )  
BHL: NENE / 330 FNL / 380 FEL / TWSP: 22S / RANGE: 34E / SECTION: 33 / LAT: 32.3545134 / LONG: -103.4677158 ( TVD: 10150 feet, MD: 17524 feet )

### BLM Point of Contact

Name: Judith Yeager

Title: Legal Instruments Examiner

Phone: 5752345936

Email: jyeager@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

## APD Print Report

05/07/2018

APD ID: 10400025685

Submission Date: 01/04/2018

Highlighted data  
reflects the most  
recent changes.

Operator Name: DEVON ENERGY PRODUCTION COMPANY  
LP

Federal/Indian APD: FED

Well Name: RIO BLANCO 4-33 FED COM

Well Number: 5H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Application

#### Section 1 - General

APD ID: 10400025685

Tie to previous NOS?

Submission Date: 01/04/2018

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: NMNM019142

Lease Acres: 560.12

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? EXISTING

Mater Development Plan name: Gaucho 1 MDP

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Approval Date: 05/04/2018

Page 1 of 25

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Well API Number:**

**Field/Pool or Exploratory?** Field and Pool

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

**Pool Name:** BONE SPRING

**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:** RIO  
BLANCO 4-33 PAD

**Number:** 5H, 39H

**Well Class:** HORIZONTAL

**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:** 3207 FT

**Distance to lease line:** 73 FT

**Reservoir well spacing assigned acres Measurement:** 240 Acres

**Well plat:** RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_C102\_signed\_20180102133049.pdf

**Well work start Date:** 06/20/2018

**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	256 7	FNL	134 3	FEL	23S	34E	4	Aliquot SWNE	32.33385 58	- 103.4708 602	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019142	339 8	0	0
KOP Leg #1	50	FSL	380	FEL	22S	34E	33	Aliquot SESE	32.33383	- 103.4677 4	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019142	- 622 6	970 4	962 4

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

	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
PPP Leg #1	330	FSL	380	FEL	22S	34E	33	Aliquot SESE	32.33527	- 103.4677 4	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019142	- 674 7	105 21	101 45
EXIT Leg #1	330	FNL	380	FEL	22S	34E	33	Aliquot NENE	32.35451 34	- 103.4677 158	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019143	- 675 2	175 24	101 50
BHL Leg #1	330	FNL	380	FEL	22S	34E	33	Aliquot NENE	32.35451 34	- 103.4677 158	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 019143	- 675 2	175 24	101 50

### Drilling Plan

#### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3398	0	0	OTHER : Surface	NONE	No
2	RUSTLER	1997	1475	1475	SANDSTONE	NONE	No
3	TOP SALT	1232	2240	2240	SALT	NONE	No
4	BASE OF SALT	-1085	4557	4557	SALT	NONE	No
5	DELAWARE	-1668	5140	5140	SANDSTONE	NONE	No
6	BRUSHY CANYON	-3728	7200	7200	SANDSTONE	NATURAL GAS,OIL	No
7	BONE SPRINGS	-5033	8505	8505	LIMESTONE	NATURAL GAS,OIL	No
8	BONE SPRING 1ST	-6055	9527	9527	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING 2ND	-6513	9985	9985	SANDSTONE	NATURAL GAS,OIL	Yes

#### Section 2 - Blowout Prevention

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Pressure Rating (PSI):** 3M

**Rating Depth:** 5150

**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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_3M\_BOPE\_CK\_20171220101540.pdf

**BOP Diagram Attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_3M\_BOPE\_CK\_20171220101559.pdf

---

**Pressure Rating (PSI):** 3M

**Rating Depth:** 10150

**Equipment:** OP/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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_3M\_BOPE\_CK\_20171220101704.pdf

**BOP Diagram Attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_3M\_BOPE\_CK\_20171220101723.pdf

---



Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RIO BLANCO 4-33 FED COM

Well Number: 5H

### 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	600	0	600			600	J-55	75	OTHER - BTC	1.125	1	BUOY	1.6	BUOY	1.6
2	OTHER	18.125	16.0	NEW	API	N	600	2270	600	2270	-7874	-9474	1670	J-55	75	OTHER - BTC	1.125	1	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	13.5	11.875	NEW	API	N	0	3500	0	3500	-7874	-12874	3500	OTHER	40	OTHER - VAM HD-I	1.125	1	BUOY	1.6	BUOY	1.6
4	INTERMEDIATE	10.625	8.625	NEW	API	N	0	5150	0	5150	-12174	-12874	5150	OTHER	32	LTC	1.125	1	BUOY	1.6	BUOY	1.6
5	PRODUCTION	7.875	5.5	NEW	API	N	0	17524	0	10150	-7874	-7939	17524	P-110	17	OTHER - BTC	1.125	1	BUOY	1.6	BUOY	1.6

#### Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Surf\_Csg\_Ass\_20180102133627.pdf

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

---

**Casing Attachments**

---

**Casing ID:** 2      **String Type:** OTHER      - Surface

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Surf\_Csg\_Ass\_20180102133713.pdf

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Int\_Csg\_Ass\_20180102133723.pdf

---

**Casing ID:** 4      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Int\_Csg\_Ass\_20180102133747.pdf

---

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

#### Casing Attachments

**Casing ID:** 5      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Prod\_Csg\_Ass\_20180102133809.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	0	0	0	0	0		SEE ATTACHED DRILLING CONTINGENCY	N/A

OTHER	Lead		0	1770	1692	1.73	13.5	2927	75	C	100% Class C Cement: 4% BWOC Bentonite + 0.125 lbs/sack Poly-E-Flake
OTHER	Tail		1770	2270	328	1.33	14.8	436	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/sks Poly-E-Flake
INTERMEDIATE	Tail		3000	3500	157	1.33	14.8	209	50	C	0.125 lbs/sks Poly-R-Flake
INTERMEDIATE	Lead		0	4650	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

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		4650	5150	112	1.18	15.6	132	25	C	0.125 lbs/sks Poly-R-Flake
PRODUCTION	Lead		4650	9704	338	2.81	11	950	10	NEOCEM	N/A
PRODUCTION	Tail		9704	17524	678	1.47	13.2	997	10	NEOCOM	N/A

### 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	1600	WATER-BASED MUD	8.4	8.5				2			
1600	5000	SALT SATURATED	9.8	10				2			
5000	21126	LSND/GEL	8.4	9				12			

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

## **Section 6 - Test, Logging, Coring**

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

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

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

CALIPER,CBL,DS,GR,MUDLOG

**Coring operation description for the well:**

N/A

## **Section 7 - Pressure**

**Anticipated Bottom Hole Pressure:** 4750

**Anticipated Surface Pressure:** 2517

**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:**

Rio\_Blanco\_4\_33\_Fed\_Com\_5H\_H2S\_Plan\_20180104103813.pdf

## **Section 8 - Other Information**

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

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_ACReport\_20180102134933.pdf

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Dir\_Svy\_20180102134934.pdf

**Other proposed operations facets description:**

MULTI-BOWL VERBIAGE  
MULTI-BOWL WELLHEAD  
CLOSED-LOOP DESIGN PLAN  
DIRECTIONAL SURVEY  
ANTICOLLISION PLAN  
DRILLING CONTINGENCY  
ALTERNATIVE DRILLING PLAN AFMSS INPUTS  
ALTERNATE DRILLING CONTINGENCY  
ANNULAR VARIANCE REQUEST AND SCHEMATIC  
SPUDDER RIG  
GCP FORM  
CO-FLEX  
SPEC SHEET

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Other proposed operations facets attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Spudder\_Rig\_Info\_20180102135029.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Clsd\_Loop\_20180102135040.pdf  
Rio\_Blanco\_4\_33\_Fed\_Com\_5H\_GCP\_20180104103509.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Drlg\_Contingency\_20180104121952.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Drlg\_Contingency\_Alternate\_20180104152509.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Drlg\_Plan\_Alternate\_20180104152510.pdf  
Rio\_Blanco\_4\_33\_Fed\_Com\_5H\_Drlg\_Summary\_w\_Alt\_Design\_20180104152511.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_MB\_Verb\_3M\_20180305082550.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_11.875\_71.80\_Q125\_HDL\_20180305084710.pdf  
RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_4\_STRING\_WH\_SCHEM\_20180307061342.pdf

**Other Variance attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Co\_flex\_20180102135050.pdf

SUPO

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Access\_Rd\_20180102135340.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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_New\_Access\_Rd\_20180102135419.pdf

**New road type:** LOCAL

**Length:** 204.6

**Feet**

**Width (ft.):** 30

**Max slope (%):** 6

**Max grade (%):** 4

**Approval Date:** 05/04/2018

**Page** 10 of 25

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_New\_Access\_Rd\_20180102135507.pdf

**Access road engineering design?** YES

**Access road engineering design attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_New\_Access\_Rd\_20180102135518.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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_OneMile\_20180102135618.pdf

**Existing Wells description:**

Approval Date: 05/04/2018

Page 11 of 25

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Part of Gaucho 1 MDP. Four Attachments - CTB Plat, Electric, Flowline, Pad Access Road. Battery Connects will be handled by a third party.

**Production Facilities map:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_CTB\_Plat\_20180104104638.pdf

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Electric\_20180104104641.pdf

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Flowline\_20180104104643.pdf

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Pad\_Access\_Rd\_20180104104649.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):** 202500

**Source volume (acre-feet):** 26.100851

**Source volume (gal):** 8505000

**Water source and transportation map:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Water\_Map\_20180102135712.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:**



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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**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:**

**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. Caliche Location Map attached.

**Construction Materials source location attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_CALICHE\_20180102140428.pdf

## **Section 7 - Methods for Handling Waste**

**Waste type:** FLOWBACK

**Waste content description:** Average produced BWPD over the flowback period (first 30 days of production).

**Amount of waste:** 1300 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

**Waste disposal type:** RECYCLE

**Disposal location ownership:** STATE

**Disposal type description:**

**Disposal location description:** All produced water will be recycled at our North Gaucho water reuse facility. Any excess water that cannot be recycled will be sent to one of our 3 SWD's (Caballo 9 St 1, Rio Blanco 33 Fed 2, Rio Blanco 4 Fed Com 3) or to OWL (third-party; state tie-in).

**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

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**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:** Average produced BWPD over the first year of production.

**Amount of waste:** 475                      barrels

**Waste disposal frequency :** Daily

**Safe containment description:** N/A

**Safe containmant attachment:**

**Waste disposal type:** RECYCLE                      **Disposal location ownership:** STATE

**Disposal type description:**

**Disposal location description:** All produced water will be recycled at our North Gaucho water reuse facility. Any excess water that cannot be recycled will be sent to one of our 3 SWD's (Caballo 9 St 1, Rio Blanco 33 Fed 2, Rio Blanco 4 Fed Com 3) or to OWL (third-party; state tie-in).

**Waste type:** DRILLING

**Waste content description:** Water and oil based cuttings

**Amount of waste:** 1910                      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 cutting will be 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**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Reserve pit liner specifications and installation description**

### **Cuttings Area**

**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 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:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Well\_Layout\_20180104105205.pdf

**Comments:**

### **Section 10 - Plans for Surface Reclamation**

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** RIO BLANCO 4-33 PAD

**Multiple Well Pad Number:** 5H, 39H

**Recontouring attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Interim\_Recl\_20180102140652.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:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

<b>Well pad proposed disturbance (acres):</b> 8.269	<b>Well pad interim reclamation (acres):</b> 6.276	<b>Well pad long term disturbance (acres):</b> 1.993
<b>Road proposed disturbance (acres):</b> 0.141	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0.141
<b>Powerline proposed disturbance (acres):</b> 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 0.525	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0.525
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 8.935	<b>Total interim reclamation:</b> 6.276	<b>Total long term disturbance:</b> 2.659

**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:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

## 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

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Seed reclamation attachment:**

### Operator Contact/Responsible Official Contact Info

**First Name:** TRAVIS

**Last Name:** PHIBBS

**Phone:** (575)748-9929

**Email:** TRAVIS.PHIBBS@DVN.COM

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

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

**Weed treatment plan attachment:**

**Monitoring plan description:** Monitor as needed.

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** N/A

**Pit closure attachment:**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

## **Section 11 - Surface Ownership**

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**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,PRIVATE OWNERSHIP

**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:**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**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:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

**ROW Type(s):** 281001 ROW - ROADS, 288100 ROW – O&G Pipeline, 288101 ROW – O&G Facility Sites, 288103 ROW – Salt Water Disposal Pipeline/Facility, 289001 ROW- O&G Well Pad, FLPMA (Powerline), Other

### ROW Applications

**SUPO Additional Information:** Part of Gaucho 1 MDP.

**Use a previously conducted onsite?** YES

**Previous Onsite information:** May 9, 2016

### Other SUPO Attachment

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Grading\_Plan\_20180102140957.pdf

PWD



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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

## **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?**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

### **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:**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

## **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:**

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**

### Bond Info

#### 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:**

### Operator Certification

#### 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:** 01/04/2018

**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

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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

### 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@devon.com

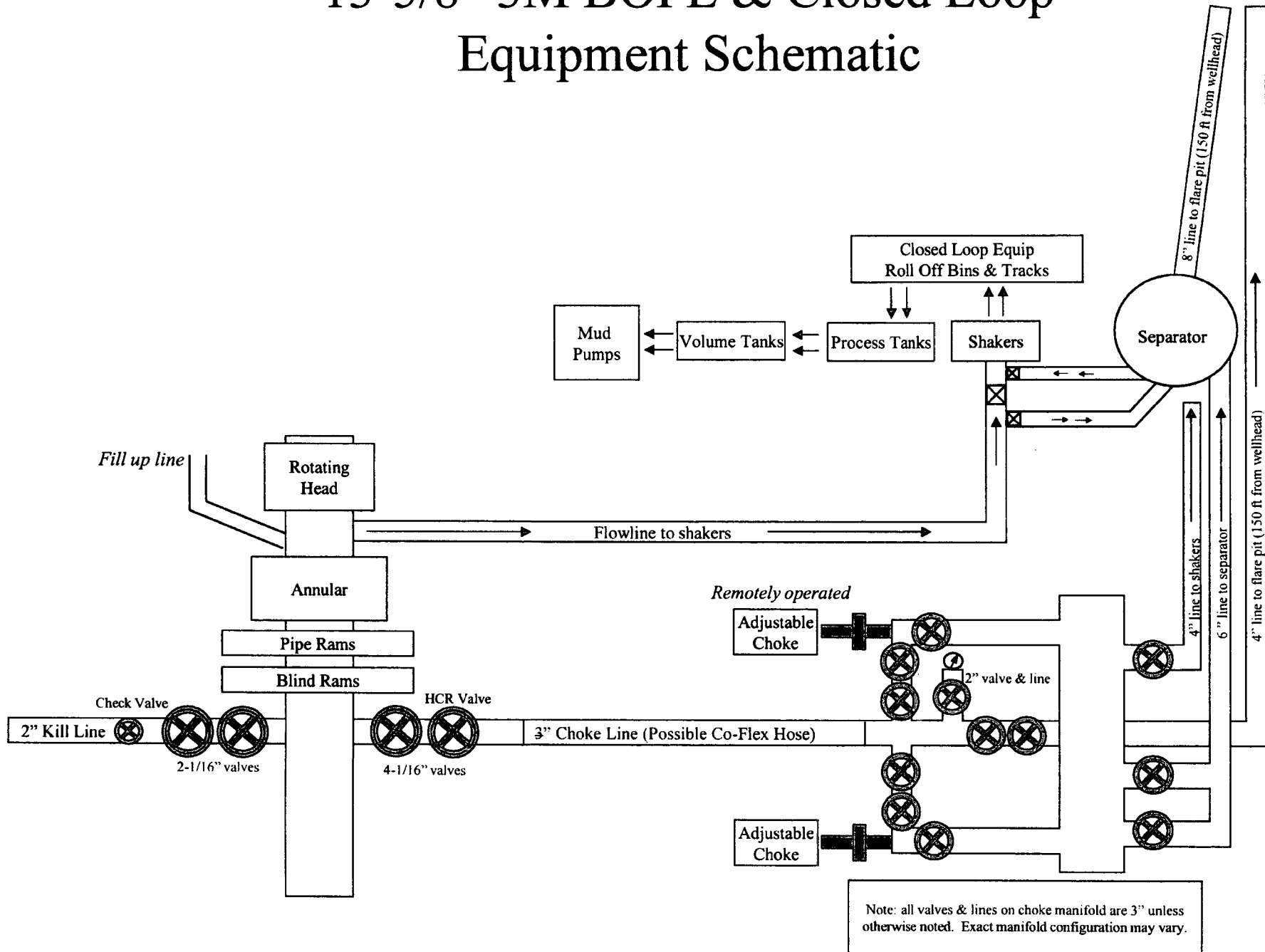
### Payment Info

#### Payment

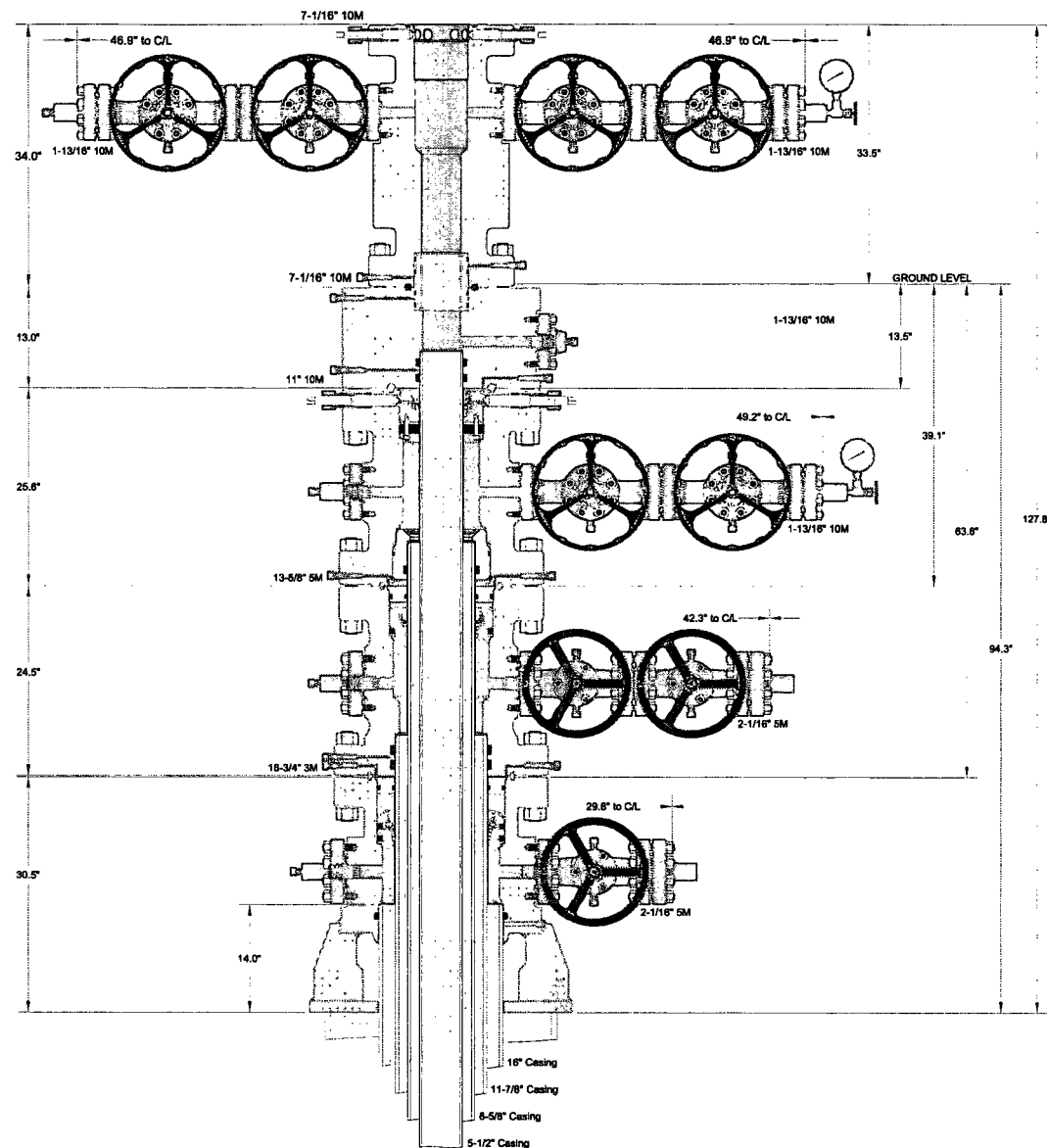
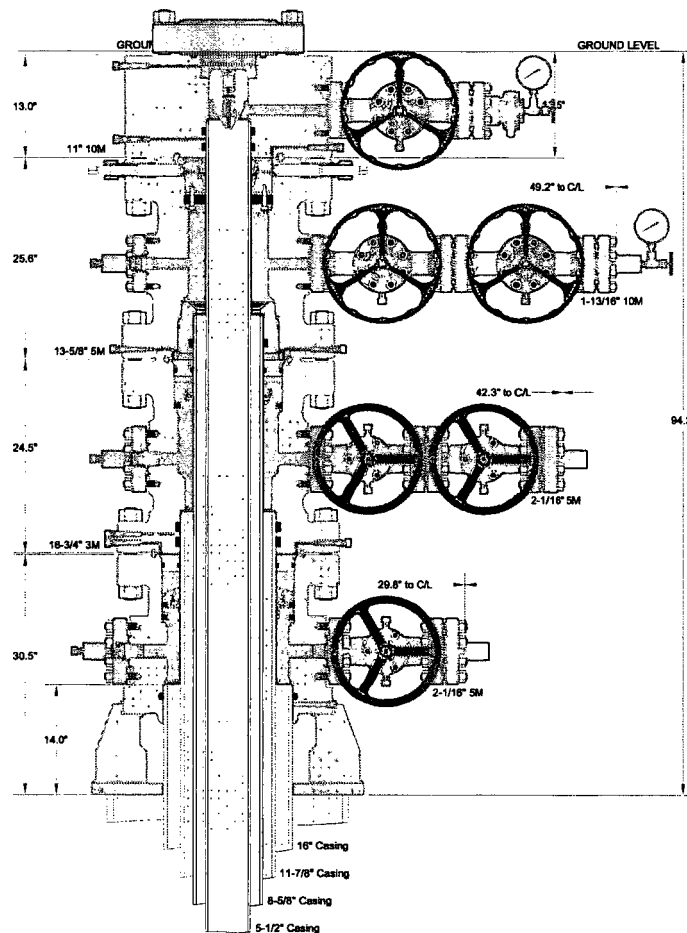
**APD Fee Payment Method:** PAY.GOV

**pay.gov Tracking ID:** 266UQ8KD

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



RIO BLANCO 4-33 FED COM 1H  
CACTUS 168



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

## CACTUS WELLHEAD LLC

(30") x 16" x 11-7/8" x 8-5/8" x 5-1/2" Conventional Wellhead  
With 7-1/16" 10M x 7-1/16" 10M CTH-EN Tubing Head,  
And Conventional Slip Style Casing Hangers

DEVON ENERGY CORPORATION

DRAWN  
APPROV

DLE

01DEC17

DRAWING NO.

ODE0001941

JUL 11 2018

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.



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

**Well Name:** RIO BLANCO 4-33 FED COM

**Well Number:** 5H

**Well Site Layout Diagram:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Well\_Layout\_20180104105205.pdf

**Recontouring attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Interim\_Recl\_20180102140652.pdf

**Other SUPO Attachment:**

RIO\_BLANCO\_4\_33\_FED\_COM\_5H\_Grading\_Plan\_20180102140957.pdf

**Produced Water Disposal**

**Bonds**