

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-54249
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
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)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
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.
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 requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

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)



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July, 2024	
			Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
				<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-54249	Pool Code 97922	Pool Name WC-025 G-06 S223421L; BONE SPRING
Property Code 316229	Property Name RIO BLANCO 4-33 FEDERAL COM	Well Number 105H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Ground Level Elevation 3400.9'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	4	23-S	34-E		2384' N	1504' E	32.334357	103.471382	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	33	22-S	34-E		20' N	1270' E	32.355365	103.470596	LEA

Dedicated Acres 239.96	Infill or Defining Well Infill	Defining Well API 30-025-44962	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers NMNM140034			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	4	23-S	34-E		2591' N	1270' E	32.333788	103.470624	LEA

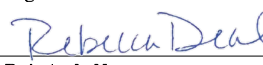
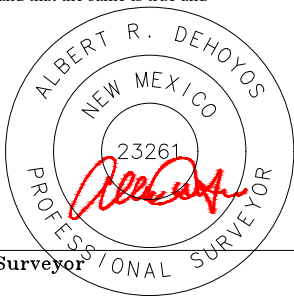
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	4	23-S	34-E		2541' N	1270' E	32.333925	103.470624	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	33	22-S	34-E		100' N	1270' E	32.355145	103.470597	LEA

Spacing Unit Type		Horizontal	Vertical	Ground Floor Elevation:
		HZ		

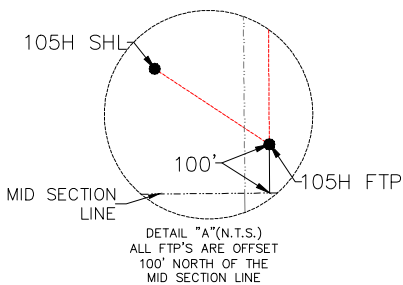
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief.	
Signature  Date 1/16/2025		Signature and Seal of Professional Surveyor 	
Printed Name Rebecca Deal, Regulatory Analyst Email Address rebecca.deal@dvn.com		Certificate Number 23261	Date of Survey 09/2023

ACREAGE DEDICATION PLATS

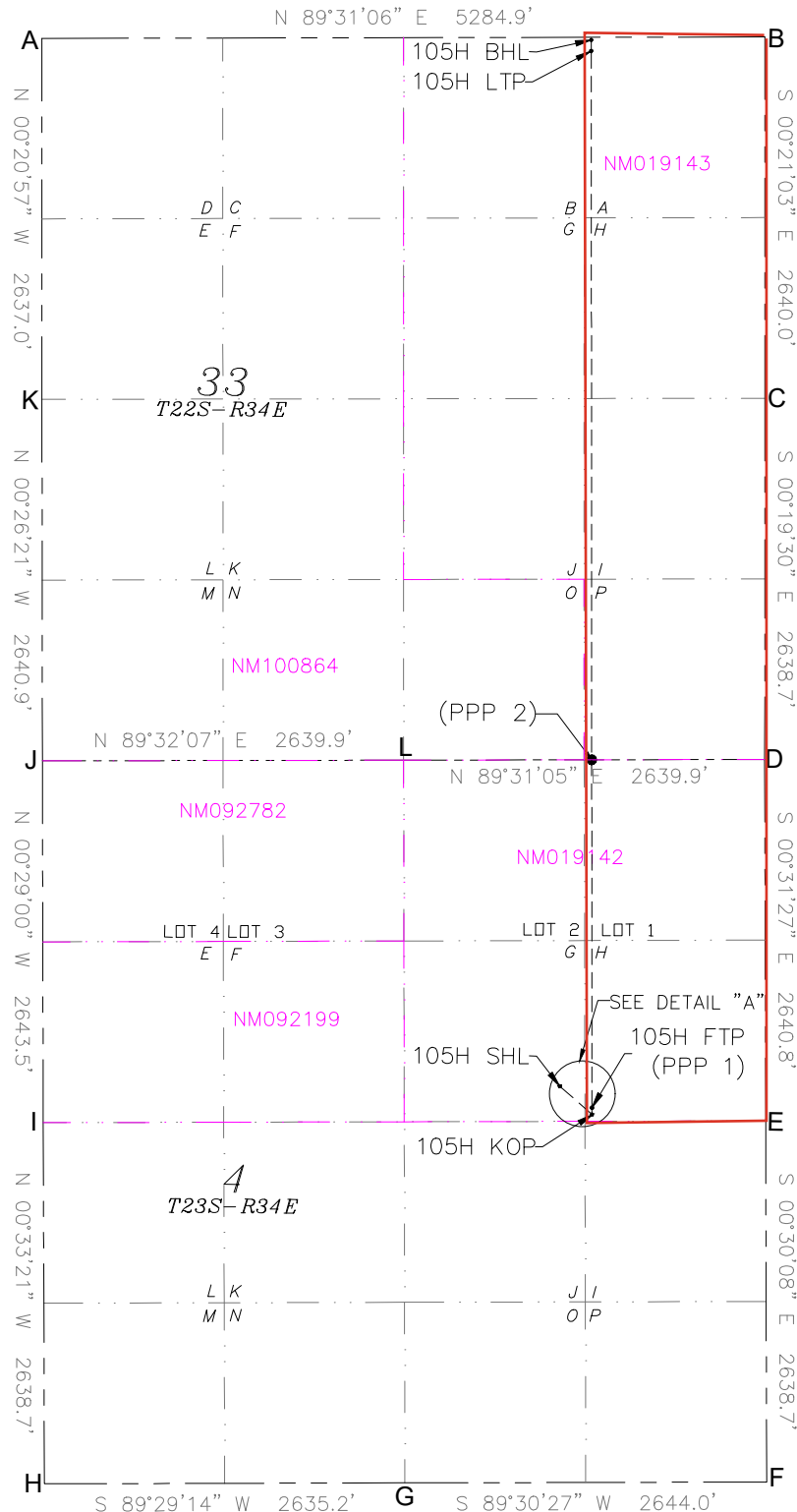
This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

<u>RIO BLANCO 4-33 FEDERAL COM 105H</u> GEODETTIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION 2384' FNL 1504' FEL SECTION 4 EL: 3400.9' N:486442.13/E:807562.28 LAT:32.334357/LON:103.471382
<u>KICK OFF POINT</u> 2591' FNL 1270' FEL SECTION 4 N:486237.15/E:807798.13 LAT:32.333788/LON:103.470624
<u>FIRST TAKE POINT</u> 2541' FNL 1270' FEL SECTION 4 N:486287.15/E:807797.67 LAT:32.333925/LON:103.470624
<u>LAST TAKE POINT</u> 100' FNL 1270' FEL SECTION 33 N:494006.91/E:807743.90 LAT:32.355145/LON:103.470597
<u>BOTTOM HOLE LOCATION</u> 20' FNL 1270' FEL SECTION 33 N:494086.91/E:807743.41 LAT:32.355365/LON:103.470596
<u>PPP 2</u> 0' FSL 1264' FEL SECTION 33 N:488828.31/E:807779.97 LAT:32.340910/LON:103.470615



A=N:494073.16 E:803728.50
B=N:494117.58 E:809013.24
C=N:491477.60 E:809029.41
D=N:488838.95 E:809044.38
E=N:486198.30 E:809068.54
F=N:483559.71 E:809091.67
G=N:483536.99 E:806447.75
H=N:483513.40 E:803812.70
I=N:486151.95 E:803787.10
J=N:488795.34 E:803764.80
K=N:491436.21 E:803744.57
L=N:488816.75 E:806404.60



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Devon Energy Production Company, L.P. **OGRID:** 6137 **Date:** 10 / 30 / 2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached						

IV. Central Delivery Point Name: Rio Blanco 4 CTB 2 [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See Attached						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Jeff Walla
Title: Surface Land and Regulatory Manager
E-mail Address:
Date:
Phone:
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

RIO BLANCO 4 CTB 2								
Well Name	STR	N/S Footage	Call	E/W Footage	Call	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
RIO BLANCO 4-33 FED COM 103H	4-23S-34E	2455	FNL	1650	FEL	(+/-) 1075bopd	(+/-) 836mcf	(+/-) 2043bwpd
RIO BLANCO 4-33 FED COM 104H	4-23S-34E	2455	FNL	1680	FEL	(+/-) 1075bopd	(+/-) 836mcf	(+/-) 2043bwpd
RIO BLANCO 4-33 FED COM 105H	4-23S-34E	2455	FNL	1740	FEL	(+/-) 1075bopd	(+/-) 836mcf	(+/-) 2043bwpd
RIO BLANCO 4-33 FED COM 106H	4-23S-34E	2455	FNL	1710	FEL	(+/-) 1075bopd	(+/-) 836mcf	(+/-) 2043bwpd

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
RIO BLANCO 4-33 FED COM 103H		10/15/2024	11/14/2024	3/14/2025	3/14/2025	3/14/2025
RIO BLANCO 4-33 FED COM 104H		9/27/2024	10/27/2024	2/24/2025	2/24/2025	2/24/2025
RIO BLANCO 4-33 FED COM 105H		10/20/2024	11/19/2024	3/19/2025	3/19/2025	3/19/2025
RIO BLANCO 4-33 FED COM 106H		10/30/2024	11/29/2024	3/29/2025	3/29/2025	3/29/2025



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

RIO BLANCO 4-33 FED COM 105H

1. Geologic Formations

TVD of target	9900	Pilot hole depth	N/A
MD at TD:	17520	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	2370		
Salt	2700		
Base of Salt	4965		
Delaware	5130		
Cherry Canyon	6000		
Brushy Canyon	7110		
1st Bone Spring Lime	8455		
Bone Spring 1st	9520		

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

RIO BLANCO 4-33 FED COM 105H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	2395	0	2395
12 1/4	9 5/8	40	J-55	BTC	0	5065	0	5065
8 3/4	5 1/2	17	P110	BTC	0	17520	0	9900

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

RIO BLANCO 4-33 FED COM 105H

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	1772	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	546	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4565	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	709	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	546	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4565	13.2	1.4	Tail: Class H / C + additives
Production	408	4565	9.0	3.3	Lead: Class H / C + additives
	1576	9351	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. 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	% Excess
Surface	50%
Intermediate	30%
Production	10%

RIO BLANCO 4-33 FED COM 105H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other* <input type="text"/>		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other* <input type="text"/>		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other* <input type="text"/>		

RIO BLANCO 4-33 FED COM 105H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4633
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	H ₂ S is present
Y	H ₂ S plan attached.

RIO BLANCO 4-33 FED COM 105H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, 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 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? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 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 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 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

X Directional Plan
 Other, describe

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.



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

Drilling Plan Data Report

12/11/2024

APD ID: 10400095593

Submission Date: 11/01/2023

Highlighted data
reflects the most
recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RIO BLANCO 4-33 FED COM

Well Number: 105H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14654563	---	3401	0	0	OTHER : Surface	NONE	N
14654564	RUSTLER	1031	2370	2370	SANDSTONE	NONE	N
14654565	TOP SALT	701	2700	2700	SALT	NONE	N
14654573	BASE OF SALT	-1564	4965	4965	ANHYDRITE	NONE	N
14654562	BELL CANYON	-1729	5130	5130	SANDSTONE	NATURAL GAS, OIL	N
14654571	CHERRY CANYON	-2599	6000	6000	SANDSTONE	NATURAL GAS, OIL	N
14654569	BRUSHY CANYON	-3709	7110	7110	SANDSTONE	NATURAL GAS, OIL	N
14654572	BONE SPRING LIME	-5054	8455	8455	LIMESTONE	NATURAL GAS, OIL	Y
14654583	BONE SPRING 1ST	-5054	8455	8455	SANDSTONE	NATURAL GAS, OIL	N
14654580	BONE SPRING 2ND	-6624	10025	10025	SANDSTONE	NATURAL GAS, OIL	N
14654581	BONE SPRING 3RD	-7049	10450	10450	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	Y
14654584	BONE SPRING 3RD	-7509	10910	10910	SANDSTONE	NATURAL GAS, OIL	N
14654582	WOLFCAMP	-7849	11250	11250	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

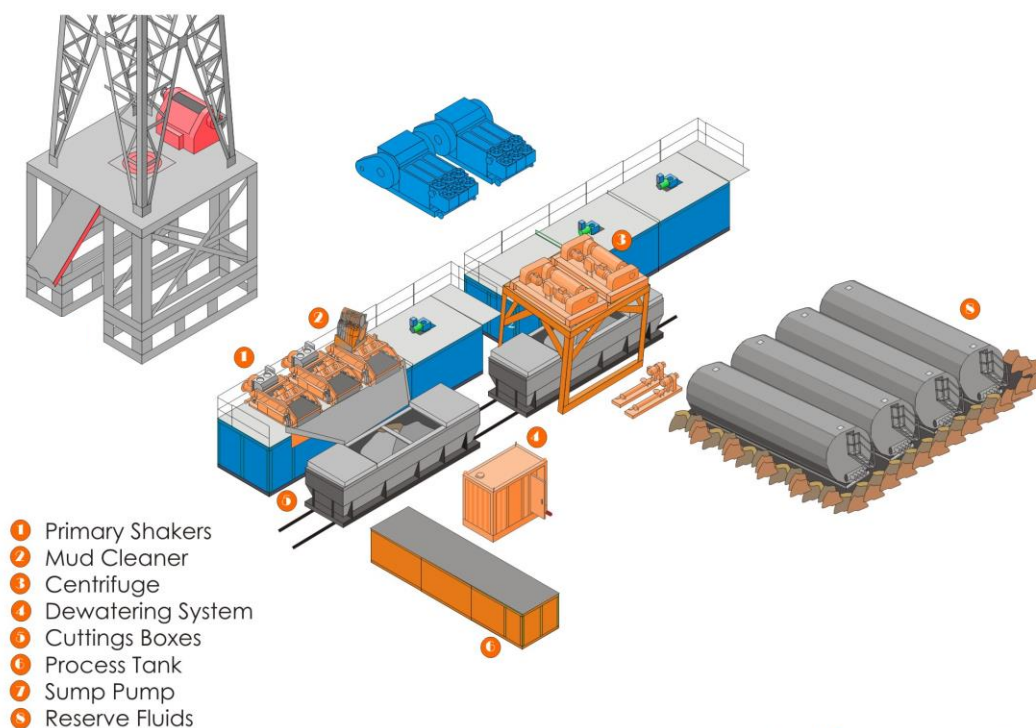
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

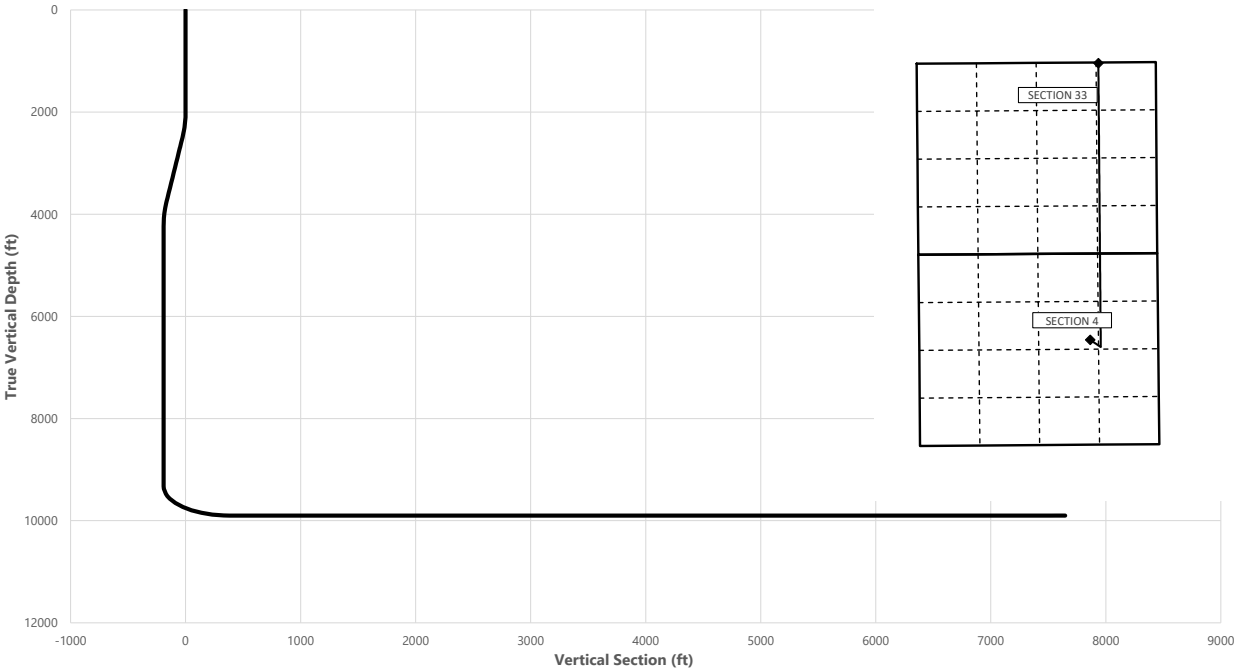
A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	130.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	130.00	2497.47	-27.98	33.34	-27.18	2.00	Hold Tangent
3761.64	10.00	130.00	3739.94	-168.80	201.17	-163.99	0.00	Drop to Vertical
4261.64	0.00	130.00	4237.40	-196.77	234.51	-191.16	2.00	Hold Vertical
9351.28	0.00	359.61	9327.04	-196.77	234.51	-191.16	0.00	KOP
10251.28	90.00	359.61	9900.00	376.17	230.61	381.53	10.00	Landing Point
17520.06	90.00	359.61	9900.00	7644.78	181.13	7646.92	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	2371.04	2370.00
Salt	2705.66	2700.00
Base of Salt	4989.24	4965.00
Delaware	5154.24	5130.00
Cherry Canyon	6024.24	6000.00
Brushy Canyon	7134.24	7110.00
1st Bone Spring Lime	8479.24	8455.00
Bone Spring 1st / Point of Penetratic	9548.08	9520.00
exit	17440.06	9900.01

SHL
KOP
Point of Penetration
Exit
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.3343	-103.4715	2384' FNL, 1504' FEL of Sec 4 in T23S, R34E
9351.28	9327.04	32.3337	-103.4707	2583' FNL, 1271' FEL of Sec 4 in T22S, R34E
9548.08	9520.00	32.3339	-103.4706	2541' FNL, 1270' FEL of Sec 4 in T22S, R34E
17440.06	9900.01	32.3551	-103.4706	100' FNL, 1270' FEL of Sec 33 in T23S, R34E
17520.06	9900.00	32.3553	-103.4707	20' FNL, 1270' FEL of Sec 33 in T23S, R34E

	Y	X	MD
KOP	486245	807797	9351.28

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
 County: Lea
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
 Datum: North American Datum 1927
 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	130.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	130.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	130.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	130.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	130.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	130.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	130.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	130.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	130.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	130.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	130.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	130.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	130.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	130.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	130.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	130.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	130.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	130.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	130.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	130.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	130.00	2099.98	-1.12	1.34	-1.09	2.00	
2200.00	4.00	130.00	2199.84	-4.49	5.35	-4.36	2.00	
2300.00	6.00	130.00	2299.45	-10.09	12.02	-9.80	2.00	
2371.04	7.42	130.00	2370.00	-15.42	18.38	-14.98	2.00	Rustler
2400.00	8.00	130.00	2398.70	-17.92	21.36	-17.41	2.00	
2500.00	10.00	130.00	2497.47	-27.98	33.34	-27.18	2.00	Hold Tangent
2600.00	10.00	130.00	2595.95	-39.14	46.64	-38.02	0.00	
2700.00	10.00	130.00	2694.43	-50.30	59.94	-48.87	0.00	
2705.66	10.00	130.00	2700.00	-50.93	60.70	-49.48	0.00	Salt
2800.00	10.00	130.00	2792.91	-61.46	73.25	-59.71	0.00	
2900.00	10.00	130.00	2891.39	-72.62	86.55	-70.55	0.00	
3000.00	10.00	130.00	2989.87	-83.79	99.85	-81.40	0.00	
3100.00	10.00	130.00	3088.35	-94.95	113.15	-92.24	0.00	
3200.00	10.00	130.00	3186.83	-106.11	126.46	-103.08	0.00	
3300.00	10.00	130.00	3285.31	-117.27	139.76	-113.93	0.00	
3400.00	10.00	130.00	3383.79	-128.43	153.06	-124.77	0.00	
3500.00	10.00	130.00	3482.27	-139.59	166.36	-135.61	0.00	
3600.00	10.00	130.00	3580.75	-150.76	179.66	-146.46	0.00	
3700.00	10.00	130.00	3679.23	-161.92	192.97	-157.30	0.00	
3761.64	10.00	130.00	3739.94	-168.80	201.17	-163.99	0.00	Drop to Vertical
3800.00	9.23	130.00	3777.76	-172.92	206.08	-167.99	2.00	
3900.00	7.23	130.00	3876.72	-182.12	217.04	-176.93	2.00	
4000.00	5.23	130.00	3976.13	-189.10	225.36	-183.71	2.00	
4100.00	3.23	130.00	4075.85	-193.84	231.01	-188.32	2.00	
4200.00	1.23	130.00	4175.77	-196.35	234.00	-190.75	2.00	
4261.64	0.00	130.00	4237.40	-196.77	234.51	-191.16	2.00	Hold Vertical
4300.00	0.00	359.61	4275.76	-196.77	234.51	-191.16	0.00	
4400.00	0.00	359.61	4375.76	-196.77	234.51	-191.16	0.00	
4500.00	0.00	359.61	4475.76	-196.77	234.51	-191.16	0.00	
4600.00	0.00	359.61	4575.76	-196.77	234.51	-191.16	0.00	
4700.00	0.00	359.61	4675.76	-196.77	234.51	-191.16	0.00	
4800.00	0.00	359.61	4775.76	-196.77	234.51	-191.16	0.00	
4900.00	0.00	359.61	4875.76	-196.77	234.51	-191.16	0.00	
4989.24	0.00	359.61	4965.00	-196.77	234.51	-191.16	0.00	Base of Salt
5000.00	0.00	359.61	4975.76	-196.77	234.51	-191.16	0.00	
5100.00	0.00	359.61	5075.76	-196.77	234.51	-191.16	0.00	
5154.24	0.00	359.61	5130.00	-196.77	234.51	-191.16	0.00	Delaware
5200.00	0.00	359.61	5175.76	-196.77	234.51	-191.16	0.00	
5300.00	0.00	359.61	5275.76	-196.77	234.51	-191.16	0.00	
5400.00	0.00	359.61	5375.76	-196.77	234.51	-191.16	0.00	
5500.00	0.00	359.61	5475.76	-196.77	234.51	-191.16	0.00	
5600.00	0.00	359.61	5575.76	-196.77	234.51	-191.16	0.00	
5700.00	0.00	359.61	5675.76	-196.77	234.51	-191.16	0.00	
5800.00	0.00	359.61	5775.76	-196.77	234.51	-191.16	0.00	
5900.00	0.00	359.61	5875.76	-196.77	234.51	-191.16	0.00	
6000.00	0.00	359.61	5975.76	-196.77	234.51	-191.16	0.00	
6024.24	0.00	359.61	6000.00	-196.77	234.51	-191.16	0.00	Cherry Canyon
6100.00	0.00	359.61	6075.76	-196.77	234.51	-191.16	0.00	
6200.00	0.00	359.61	6175.76	-196.77	234.51	-191.16	0.00	

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.61	6275.76	-196.77	234.51	-191.16	0.00	
6400.00	0.00	359.61	6375.76	-196.77	234.51	-191.16	0.00	
6500.00	0.00	359.61	6475.76	-196.77	234.51	-191.16	0.00	
6600.00	0.00	359.61	6575.76	-196.77	234.51	-191.16	0.00	
6700.00	0.00	359.61	6675.76	-196.77	234.51	-191.16	0.00	
6800.00	0.00	359.61	6775.76	-196.77	234.51	-191.16	0.00	
6900.00	0.00	359.61	6875.76	-196.77	234.51	-191.16	0.00	
7000.00	0.00	359.61	6975.76	-196.77	234.51	-191.16	0.00	
7100.00	0.00	359.61	7075.76	-196.77	234.51	-191.16	0.00	
7134.24	0.00	359.61	7110.00	-196.77	234.51	-191.16	0.00	Brushy Canyon
7200.00	0.00	359.61	7175.76	-196.77	234.51	-191.16	0.00	
7300.00	0.00	359.61	7275.76	-196.77	234.51	-191.16	0.00	
7400.00	0.00	359.61	7375.76	-196.77	234.51	-191.16	0.00	
7500.00	0.00	359.61	7475.76	-196.77	234.51	-191.16	0.00	
7600.00	0.00	359.61	7575.76	-196.77	234.51	-191.16	0.00	
7700.00	0.00	359.61	7675.76	-196.77	234.51	-191.16	0.00	
7800.00	0.00	359.61	7775.76	-196.77	234.51	-191.16	0.00	
7900.00	0.00	359.61	7875.76	-196.77	234.51	-191.16	0.00	
8000.00	0.00	359.61	7975.76	-196.77	234.51	-191.16	0.00	
8100.00	0.00	359.61	8075.76	-196.77	234.51	-191.16	0.00	
8200.00	0.00	359.61	8175.76	-196.77	234.51	-191.16	0.00	
8300.00	0.00	359.61	8275.76	-196.77	234.51	-191.16	0.00	
8400.00	0.00	359.61	8375.76	-196.77	234.51	-191.16	0.00	
8479.24	0.00	359.61	8455.00	-196.77	234.51	-191.16	0.00	1st Bone Spring Lime
8500.00	0.00	359.61	8475.76	-196.77	234.51	-191.16	0.00	
8600.00	0.00	359.61	8575.76	-196.77	234.51	-191.16	0.00	
8700.00	0.00	359.61	8675.76	-196.77	234.51	-191.16	0.00	
8800.00	0.00	359.61	8775.76	-196.77	234.51	-191.16	0.00	
8900.00	0.00	359.61	8875.76	-196.77	234.51	-191.16	0.00	
9000.00	0.00	359.61	8975.76	-196.77	234.51	-191.16	0.00	
9100.00	0.00	359.61	9075.76	-196.77	234.51	-191.16	0.00	
9200.00	0.00	359.61	9175.76	-196.77	234.51	-191.16	0.00	
9300.00	0.00	359.61	9275.76	-196.77	234.51	-191.16	0.00	
9351.28	0.00	359.61	9327.04	-196.77	234.51	-191.16	0.00	KOP
9400.00	4.87	359.61	9375.70	-194.70	234.49	-189.09	10.00	
9500.00	14.87	359.61	9474.10	-177.58	234.38	-171.98	10.00	
9548.08	19.68	359.61	9520.00	-163.31	234.28	-157.71	10.00	Bone Spring 1st / Point of Penetration
9600.00	24.87	359.61	9568.03	-143.63	234.14	-138.05	10.00	
9700.00	34.87	359.61	9654.63	-93.89	233.81	-88.33	10.00	
9800.00	44.87	359.61	9731.28	-29.87	233.37	-24.33	10.00	
9900.00	54.87	359.61	9795.65	46.50	232.85	52.00	10.00	
10000.00	64.87	359.61	9845.78	132.88	232.26	138.34	10.00	
10100.00	74.87	359.61	9880.14	226.65	231.62	232.07	10.00	
10200.00	84.87	359.61	9897.71	324.96	230.95	330.34	10.00	
10251.28	90.00	359.61	9900.00	376.17	230.61	381.53	10.00	Landing Point
10300.00	90.00	359.61	9900.00	424.89	230.27	430.23	0.00	
10400.00	90.00	359.61	9900.00	524.89	229.59	530.18	0.00	
10500.00	90.00	359.61	9900.00	624.89	228.91	630.13	0.00	
10600.00	90.00	359.61	9900.00	724.88	228.23	730.09	0.00	
10700.00	90.00	359.61	9900.00	824.88	227.55	830.04	0.00	
10800.00	90.00	359.61	9900.00	924.88	226.87	929.99	0.00	
10900.00	90.00	359.61	9900.00	1024.88	226.19	1029.95	0.00	
11000.00	90.00	359.61	9900.00	1124.87	225.51	1129.90	0.00	
11100.00	90.00	359.61	9900.00	1224.87	224.83	1229.85	0.00	
11200.00	90.00	359.61	9900.00	1324.87	224.14	1329.81	0.00	
11300.00	90.00	359.61	9900.00	1424.87	223.46	1429.76	0.00	
11400.00	90.00	359.61	9900.00	1524.87	222.78	1529.71	0.00	
11500.00	90.00	359.61	9900.00	1624.86	222.10	1629.67	0.00	
11600.00	90.00	359.61	9900.00	1724.86	221.42	1729.62	0.00	
11700.00	90.00	359.61	9900.00	1824.86	220.74	1829.58	0.00	
11800.00	90.00	359.61	9900.00	1924.86	220.06	1929.53	0.00	
11900.00	90.00	359.61	9900.00	2024.85	219.38	2029.48	0.00	
12000.00	90.00	359.61	9900.00	2124.85	218.69	2129.44	0.00	
12100.00	90.00	359.61	9900.00	2224.85	218.01	2229.39	0.00	
12200.00	90.00	359.61	9900.00	2324.85	217.33	2329.34	0.00	
12300.00	90.00	359.61	9900.00	2424.84	216.65	2429.30	0.00	
12400.00	90.00	359.61	9900.00	2524.84	215.97	2529.25	0.00	
12500.00	90.00	359.61	9900.00	2624.84	215.29	2629.20	0.00	
12600.00	90.00	359.61	9900.00	2724.84	214.61	2729.16	0.00	
12700.00	90.00	359.61	9900.00	2824.84	213.93	2829.11	0.00	

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	359.61	9900.00	2924.83	213.24	2929.06	0.00	
12900.00	90.00	359.61	9900.00	3024.83	212.56	3029.02	0.00	
13000.00	90.00	359.61	9900.00	3124.83	211.88	3128.97	0.00	
13100.00	90.00	359.61	9900.00	3224.83	211.20	3228.92	0.00	
13200.00	90.00	359.61	9900.00	3324.82	210.52	3328.88	0.00	
13300.00	90.00	359.61	9900.00	3424.82	209.84	3428.83	0.00	
13400.00	90.00	359.61	9900.00	3524.82	209.16	3528.78	0.00	
13500.00	90.00	359.61	9900.00	3624.82	208.48	3628.74	0.00	
13600.00	90.00	359.61	9900.00	3724.81	207.80	3728.69	0.00	
13700.00	90.00	359.61	9900.00	3824.81	207.11	3828.64	0.00	
13800.00	90.00	359.61	9900.00	3924.81	206.43	3928.60	0.00	
13900.00	90.00	359.61	9900.00	4024.81	205.75	4028.55	0.00	
14000.00	90.00	359.61	9900.00	4124.81	205.07	4128.51	0.00	
14100.00	90.00	359.61	9900.00	4224.80	204.39	4228.46	0.00	
14200.00	90.00	359.61	9900.01	4324.80	203.71	4328.41	0.00	
14300.00	90.00	359.61	9900.01	4424.80	203.03	4428.37	0.00	
14400.00	90.00	359.61	9900.01	4524.80	202.35	4528.32	0.00	
14500.00	90.00	359.61	9900.01	4624.79	201.66	4628.27	0.00	
14600.00	90.00	359.61	9900.01	4724.79	200.98	4728.23	0.00	
14700.00	90.00	359.61	9900.01	4824.79	200.30	4828.18	0.00	
14800.00	90.00	359.61	9900.01	4924.79	199.62	4928.13	0.00	
14900.00	90.00	359.61	9900.01	5024.78	198.94	5028.09	0.00	
15000.00	90.00	359.61	9900.01	5124.78	198.26	5128.04	0.00	
15100.00	90.00	359.61	9900.01	5224.78	197.58	5227.99	0.00	
15200.00	90.00	359.61	9900.01	5324.78	196.90	5327.95	0.00	
15300.00	90.00	359.61	9900.01	5424.77	196.21	5427.90	0.00	
15400.00	90.00	359.61	9900.01	5524.77	195.53	5527.85	0.00	
15500.00	90.00	359.61	9900.01	5624.77	194.85	5627.81	0.00	
15600.00	90.00	359.61	9900.01	5724.77	194.17	5727.76	0.00	
15700.00	90.00	359.61	9900.01	5824.77	193.49	5827.71	0.00	
15800.00	90.00	359.61	9900.01	5924.76	192.81	5927.67	0.00	
15900.00	90.00	359.61	9900.01	6024.76	192.13	6027.62	0.00	
16000.00	90.00	359.61	9900.01	6124.76	191.45	6127.58	0.00	
16100.00	90.00	359.61	9900.01	6224.76	190.76	6227.53	0.00	
16200.00	90.00	359.61	9900.01	6324.75	190.08	6327.48	0.00	
16300.00	90.00	359.61	9900.01	6424.75	189.40	6427.44	0.00	
16400.00	90.00	359.61	9900.01	6524.75	188.72	6527.39	0.00	
16500.00	90.00	359.61	9900.01	6624.75	188.04	6627.34	0.00	
16600.00	90.00	359.61	9900.01	6724.74	187.36	6727.30	0.00	
16700.00	90.00	359.61	9900.01	6824.74	186.68	6827.25	0.00	
16800.00	90.00	359.61	9900.01	6924.74	186.00	6927.20	0.00	
16900.00	90.00	359.61	9900.01	7024.74	185.32	7027.16	0.00	
17000.00	90.00	359.61	9900.01	7124.74	184.63	7127.11	0.00	
17100.00	90.00	359.61	9900.01	7224.73	183.95	7227.06	0.00	
17200.00	90.00	359.61	9900.01	7324.73	183.27	7327.02	0.00	
17300.00	90.00	359.61	9900.01	7424.73	182.59	7426.97	0.00	
17400.00	90.00	359.61	9900.01	7524.73	181.91	7526.92	0.00	
17440.06	90.00	359.61	9900.01	7564.78	181.64	7566.96	0.00	exit
17500.00	90.00	359.61	9900.01	7624.72	181.23	7626.88	0.00	
17520.06	90.00	359.61	9900.00	7644.78	181.13	7646.92	0.00	BHL

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



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 5000 (5M) 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 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill 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 5,000 psi WP.

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



Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:
 1. Primary barrier remains fluid
 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third

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 5000 (5M) 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 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill 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 5,000 psi WP.

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

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM92199
LOCATION:	Section 4, T.23 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico ▼

WELL NAME & NO.:	Rio Blanco 4-33 Fed Com 103H
BOTTOM HOLE FOOTAGE	20'/N & 2290'/W
ATS/API ID:	ATS-24-279
APD ID:	10400095577
Sundry ID:	N/a

WELL NAME & NO.:	Rio Blanco 4-33 Fed Com 104H
BOTTOM HOLE FOOTAGE	20'/N & 1670'/E
ATS/API ID:	ATS-24-284
APD ID:	10400095591
Sundry ID:	N/a

WELL NAME & NO.:	Rio Blanco 4-33 Fed Com 105H
BOTTOM HOLE FOOTAGE	20'/N & 1270'/E
ATS/API ID:	ATS-24-280
APD ID:	10400095593
Sundry ID:	N/a

WELL NAME & NO.:	Rio Blanco 4-33 Fed Com 106H
BOTTOM HOLE FOOTAGE	20'/N & 350'/E
ATS/API ID:	ATS-24-281
APD ID:	10400095596
Sundry ID:	N/a

COA

H2S	Yes		
Potash	Ochoa	None	
Cave/Karst Potential	High		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze Int 1	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention None	
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Surface casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The **13-3/8** inch surface casing shall be set at approximately **2200 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Option 2:

Operator has proposed a DV tool(s), the depth may be adjusted as long as the cement is changed proportionally. The DV tool(s) may be cancelled if cement circulates to surface on the first stage.

DV tool(s) shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall contact the BLM if DV tool(s) depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool(s):
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Ochoa Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **500 feet** into the previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. 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. Annular which shall be tested to 2100 (70% Working Pressure) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be **5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is **ONLY** permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is **NOT** permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21-day** intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 8/29/2024



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

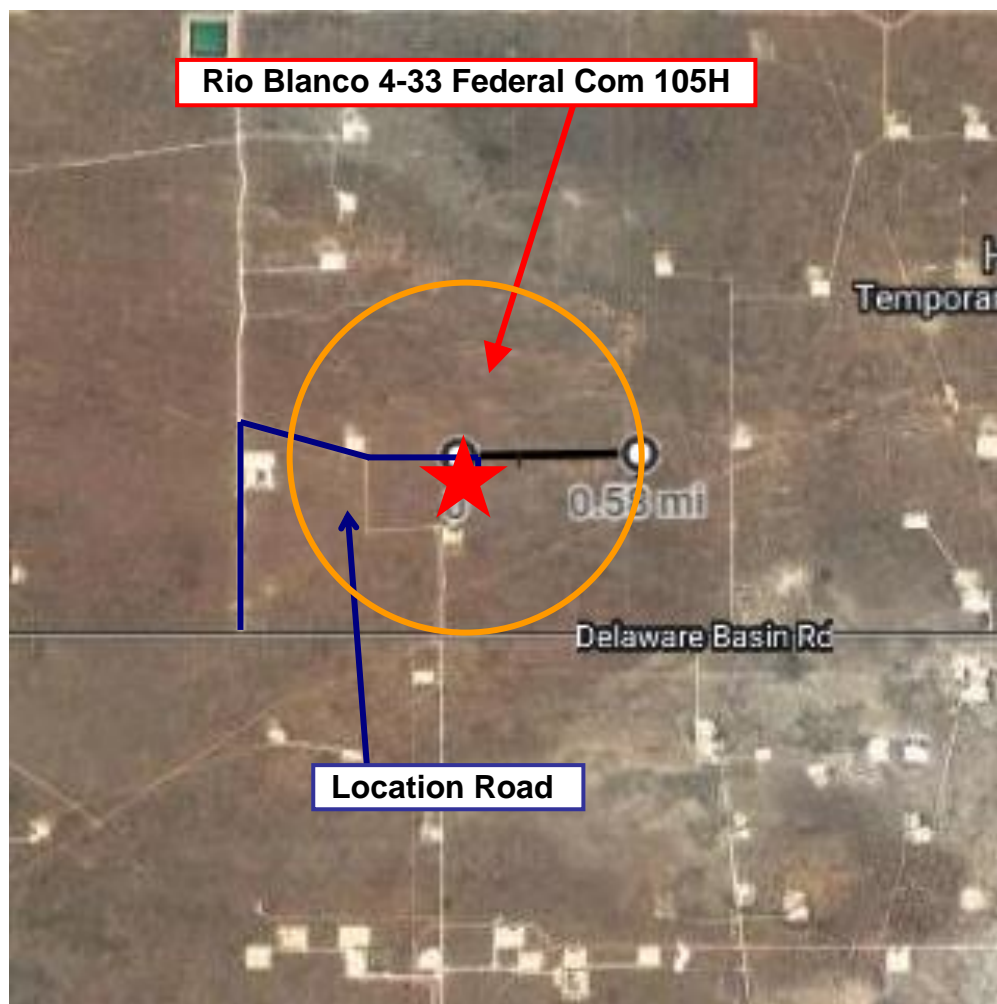
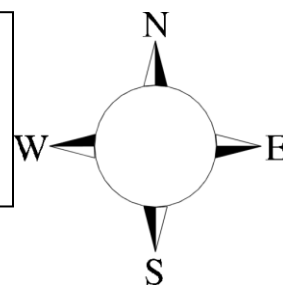
Rio Blanco 4-33 Federal Com 105H

**Sec-4 T-23S R-34E
2384' FNL & 1504' FEL
LAT. = 32.334357° N (NAD83)
LONG = 103.471382° W**

Lea County NM

Rio Blanco 4-33 Federal Com 105H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan.

There will be weekly H₂S and well control drills for all personnel in each crew.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm.

Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

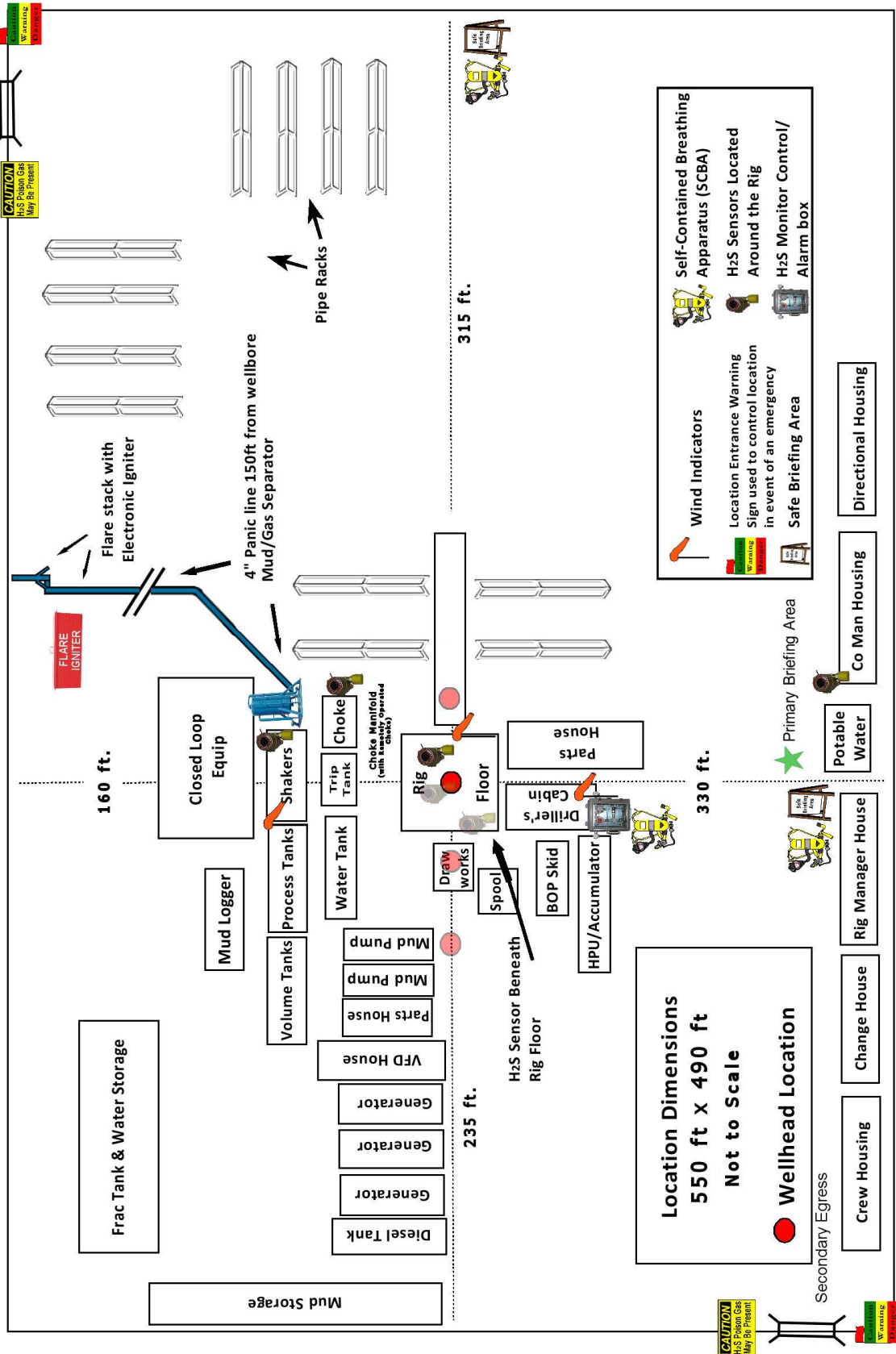
<u>Devon Energy Corp. Company Call List</u>			
Employee/Company Contact Representative	Position	Phone Number	After Hours Number
Jonathan Fisher (North)	Drilling Manager	832-967-7912	
Jason Hildebrand (South)	Drilling Manager	405-552-6514	
Rich Downey	Drilling VP	405-228-2415	
Josh Harvey	EHS Manager	405-228-2440	918-500-5536
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145
Robert Glover	EHS Professional	575-703-5712	575-703-5712
Lane Frank	Lead EHS	580-579-7052	580-579-7052
Rickey Porter	Lead EHS	903-720-8315	903-720-8315
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046
Brock Vise	Lead EHS	918-413-3291	918-413-3291

Agency Call List		
<u>Lea County</u> <u>(575)</u>	Hobbs	
	Lea County Communication Authority	397-9265
	State Police	885-3138
	City Police	397-9265
	Sheriff's Office	396-3611
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management (Closed)	393-0002
<u>Eddy County</u> <u>(575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	234-5972
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
<u>Give GPS position:</u>	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 421813

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 421813
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
wsalter	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/16/2025
wsalter	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/16/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/22/2025
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/22/2025
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/22/2025

Well Name: RIO BLANCO 4-33 FED COM	Well Location: T23S / R34E / SEC 4 / SWNE / 32.334357 / -103.471382	County or Parish/State: LEA / NM
Well Number: 105H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM19142	Unit or CA Name: RIO BLANCO 4-33 FED COM 5H	Unit or CA Number: NMNM140034
US Well Number: 3002554249	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2847107

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/14/2025

Time Sundry Submitted: 03:35

Date proposed operation will begin: 04/14/2025

Procedure Description: Devon Energy Production Company, L.P. respectfully requests to skid location on the Rio Blanco 4 33 Fed Com 105H: Change name of existing Rio Blanco 4 33 Fed Com 105H to Rio Blanco 4 33 Fed Com 105Y. Change SHL from 2384 FNL & 1504 FEL to 2383 FNL & 1594 FEL, both 4-23S-34E Please see attached revised C-102, drilling & directional plan

NOI Attachments

Procedure Description

RIO_BLANCO_4_33_FED_COM_105H_3160_3_R1_20250415072600.pdf

RIO_BLANCO_4_33_FEDERAL_COM_105H_C_102_Skid_NOI_20250415072603.pdf

AA000070078_RIO_BLANCO_4_WP_5_R2_20250414153404.pdf

RIO_BLANCO_4_33_FED_COM_105H_4_14_20250414153329.pdf

RIO_BLANCO_4_33_FED_COM_105H_Directional_Plan_04_14_25_20250414153326.pdf

Well Name: RIO BLANCO 4-33 FED
COM

Well Location: T23S / R34E / SEC 4 /
SWNE / 32.334357 / -103.471382

County or Parish/State: LEA /
NM

Well Number: 105H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM19142

Unit or CA Name: RIO BLANCO 4-33
FED COM 5H

Unit or CA Number:
NMNM140034

US Well Number: 3002554249

Operator: DEVON ENERGY
PRODUCTION COMPANY LP

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: REBECCA DEAL

Signed on: APR 15, 2025 07:26 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8429

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 04/15/2025

Signature: Long Vo

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

NMNM19142

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

7. If Unit of CA/Agreement, Name and/or No.

RIO BLANCO 4-33 FED COM 5H/NMNM140034

8. Well Name and No.

RIO BLANCO 4-33 FED COM/105H

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY LP

9. API Well No.

3002554249

3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY,

3b. Phone No. (include area code)
(405) 235-3611

10. Field and Pool or Exploratory Area

WC-025 G-06 S223421L/BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 4/T23S/R34E/NMP

11. Country or Parish, State

LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Company, L.P. respectfully requests to skid location on the Rio Blanco 4 33 Fed Com 105H:

Change name of existing Rio Blanco 4 33 Fed Com 105H to Rio Blanco 4 33 Fed Com 105Y.

Change SHL from 2384 FNL & 1504 FEL to 2383 FNL & 1594 FEL, both 4-23S-34E

Please see attached revised C-102, drilling & directional plan

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

REBECCA DEAL / Ph: (405) 228-8429

Regulatory Professional

Title

Signature (Electronic Submission)

Date

04/15/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Candy Vigil / Ph: (575) 234-5982 / Approved

LIE
Title

Date

04/15/2025

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWNE / 2384 FNL / 1504 FEL / TWSP: 23S / RANGE: 34E / SECTION: 4 / LAT: 32.334357 / LONG: -103.471382 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2541 FNL / 1670 FEL / TWSP: 23S / RANGE: 34E / SECTION: 4 / LAT: 32.333925 / LONG: -103.471919 (TVD: 9520 feet, MD: 9544 feet)

BHL: NWNE / 20 FNL / 1670 FEL / TWSP: 22S / RANGE: 34E / SECTION: 33 / LAT: 32.355364 / LONG: -103.471892 (TVD: 9900 feet, MD: 17524 feet)

CONFIDENTIAL

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NMNM19142

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER7. If Unit or CA Agreement, Name and No.
NMNM140035/RIO BLANCO 4-33 FED COM 39H1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone8. Lease Name and Well No.
RIO BLANCO 4-33 FED COM 105H2. Name of Operator
Devon Energy Production Company, L.P.9. API Well No.
30-025-545883a. Address
333 West Sheridan Avenue
Oklahoma City, OK 73102-5010

3b. Phone No. (include area code)

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 SWNE / 2383 FNL / 1194 FEL / LAT 32.334359 / LONG -103.471673

At proposed prod. zone NWNE / 20 FNL / 1670 FEL / LAT 32.355364 / LONG -103.4718

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 4/T23S/R34E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish
LEA13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
See attached map

16. No. of acres in lease

17. Spacing Unit dedicated to this well


240.1

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.
See attached map19. Proposed Depth
9900/1752020. BLM/BIA Bond No. on file
NMB-00080121. Elevations (Show whether DF, KDB, RT, GL, etc.)
3400.922. Approximate date work will start*
04/20/202523. 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 Name (Printed/Typed)
Rebecca Deal/405-228-8429Date
04/14/2025Title
Regulatory Professional

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

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)

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July, 2024	
			Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
				<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-54588	Pool Code 97922	Pool Name WC-025 G-06 S223421L; BONE SPRING
Property Code 316229	Property Name RIO BLANCO 4-33 FEDERAL COM	Well Number 105H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Ground Level Elevation 3400.9'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	4	23-S	34-E		2383' N	1594' E	32.334359	103.471673	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	33	22-S	34-E		20' N	1670' E	32.355364	103.471892	LEA

Dedicated Acres 240.1	Infill or Defining Well Infill	Defining Well API 30-025-44830	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers NMNM140034			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	4	23-S	34-E		2591' N	1670' E	32.333787	103.471919	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	4	23-S	34-E		2541' N	1670' E	32.333925	103.471919	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	33	22-S	34-E		100' N	1670' E	32.355144	103.471892	LEA

Spacing Unit Type		Horizontal	Vertical	Ground Floor Elevation:
		HZ		

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

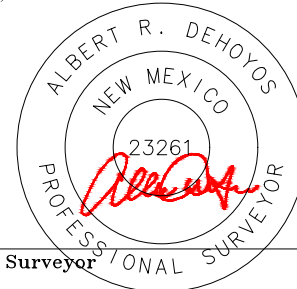
Signature Rebecca Deal Date 4/14/2025

Printed Name
Rebecca Deal, Regulatory Analyst

Email Address
rebecca.deal@dvn.com

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

Certificate Number 23261 Date of Survey 04/2025

RIO BLANCO 4 WELLPAD 5

DEVON ENERGY PRODUCTION COMPANY, L.P.
IN THE NORTHEAST QUARTER (NE/4) AND THE NORTHWEST QUARTER OF THE
SOUTHEAST QUARTER (NW/4 SE/4)
SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

LIMESTONE BASIN PROPERTIES
RANCH, LLC.
BOOK 2140 PAGE 494
SEC. 4, T23S-R34E
NE/4

3" IP W/BC
NE CORNER

S 00°31'27"
2640.76'

PROPOSED 740'
ACCESS ROAD

RIO BLANCO 4
WELLPAD 5

N: 486357.01
E: 807602.02
1465' FEL © 2470' FNL
EL: 3399.9'

RIO BLANCO 4
WELLPAD 3

34" E 490.00'

LIMESTONE BASIN PROPERTIES
RANCH, LLC.
BOOK 2140 PAGE 494
SEC. 4, T23S-R34E
NW/4 SE/4

STATE OF NEW MEXICO
SEC. 4, T23S-R34E
NE/4 SE/4

PK NAIL
SOUTHEAST
CORNER

DESCRIPTION

BEING A SURFACE SITE EASEMENT LYING IN THE NORTHEAST QUARTER (NE/4) AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER (NW/4 SE/4) OF SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST N.M.P.M., LEA COUNTY, NEW MEXICO.

BEGINNING AT THE NORTHEAST CORNER OF SAID SITE EASEMENT, WHERE A 1" IRON PIPE W/BC FOR THE EAST QUARTER CORNER OF SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST N.M.P.M. BEARS S 71°18'29" E. A DISTANCE 1257.07':

THENCE S 00°10'34" W, A DISTANCE 413.33 FEET TO THE SOUTHEAST CORNER OF THIS EASEMENT;
THENCE S 89°29'50" W, A DISTANCE 129.14 FEET TO AN ANGLE POINT;
THENCE S 00°29'07" E, A DISTANCE 75.15 FEET TO AN ANGLE POINT;
THENCE N 89°49'26" W, A DISTANCE 421.74 FEET TO THE SOUTHWEST CORNER OF THIS EASEMENT;
THENCE N 00°10'34" E, A DISTANCE 490.00 FEET TO THE NORTHWEST CORNER OF THIS EASEMENT;
THENCE S 89°49'26" E, A DISTANCE 550.00 FEET TO THE NORTHEAST CORNER OF THIS EASEMENT,
TO THE POINT OF BEGINNING: CONTAINING 5.96 ACRES.

GENERAL NOTES:

1.) THE INTENT OF THIS SURVEY IS TO ACQUIRE A BUSINESS LEASE FOR THE PURPOSE OF BUILDING A WELLPAD.

2.) All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman PLS #22404
Horizonrow, LLC
Date Signed: 09-25-2023
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizonrow, LLC

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DELAWARE BASIN ROAD AND ANTELOPE ROAD, HEAD WEST ON DELAWARE BASIN ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD NORTH ONTO AN ACCESS ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD EAST ONTO AN ACCESS ROAD FOR 0.7 OF A MILE TO A PROPOSED ACCESS ROAD. CONTINUE ON THE PROPOSED ACCESS ROAD ROUTE FOR 740' TO THE NORTHEAST CORNER OF THE RIO BLANCO 4 WELLPAD 5.

HORIZON ROW LLC

Drawn for:

Drawn by:
CHRIS MAAS

Date: 09/22/2023

DEVON ENERGY PRODUCTION COMPANY, L.P.

RIO BLANCO 4 WELLPAD 5

SURVEY PLAT SHOWING
A WELLPAD

ON THE PROPERTY OF THE
LIMESTONE BASIN PROPERTIES RANCH

SITE NUMBER:	AA000070078
--------------	-------------

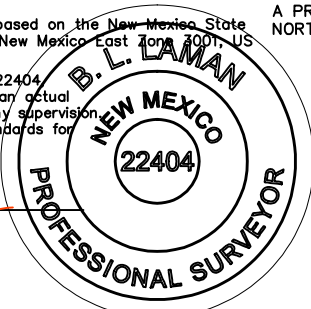
WBS NUMBER:
XX-159436.01.SLC

SCALE:
1" = 300'

REVISIONS:

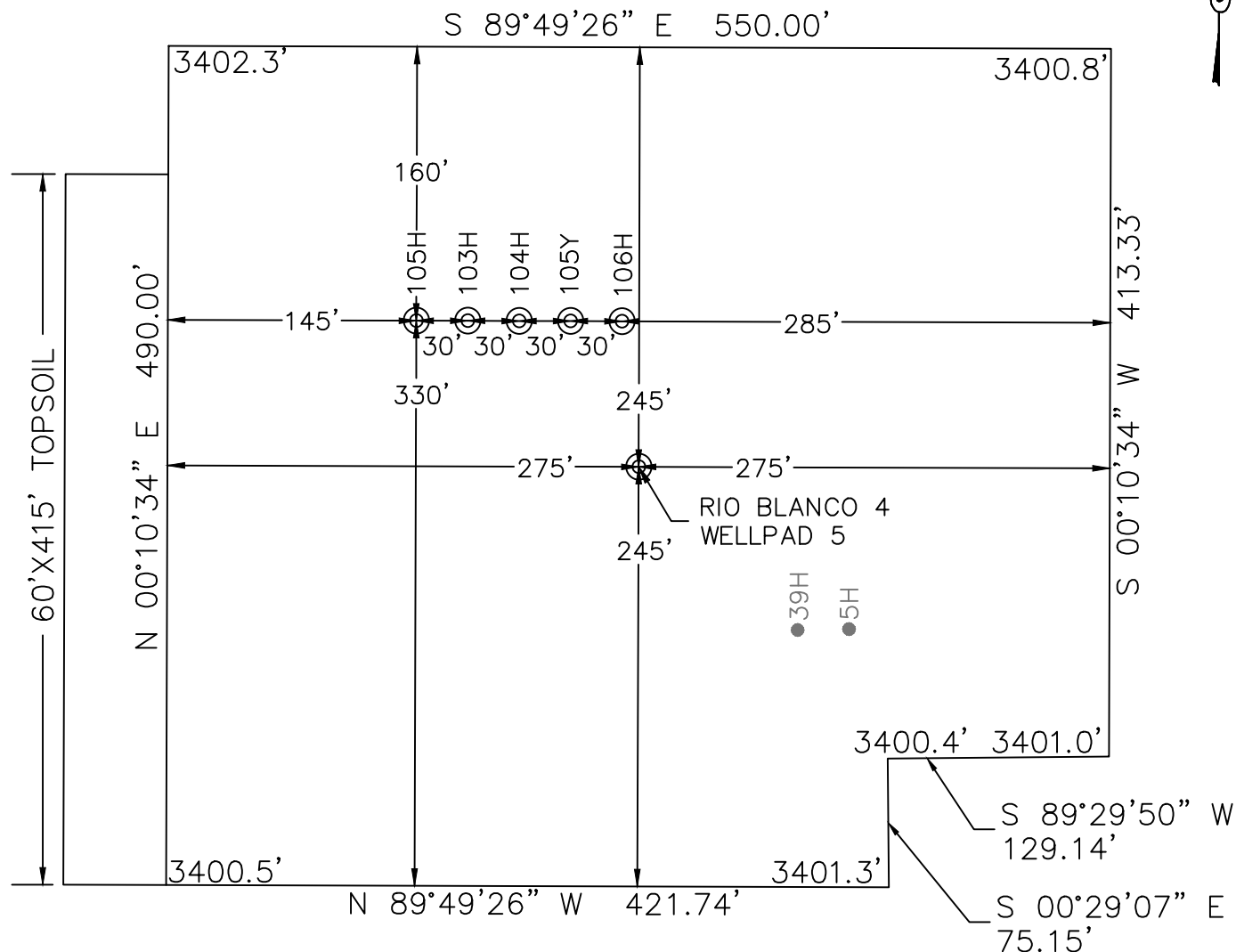
DATE OF SURVEY:
09/2023

0 200 400



devon

SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
RIO BLANCO 4 WELLPAD 5

RIO BLANCO 4-33 FEDERAL COM 105H

EL: 3400.2'
2383' FNL 1594' FEL SEC. 4
N: 486442.41
E: 807472.24

RIO BLANCO 4-33 FEDERAL COM 103H

EL: 3401.0'
2384' FNL 1564' FEL SEC. 4
N: 486442.32
E: 807502.28

RIO BLANCO 4-33 FEDERAL COM 104H

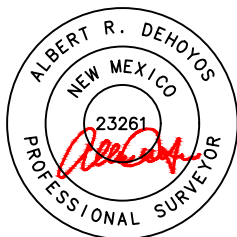
EL: 3401.0'
2384' FNL 1534' FEL SEC. 4
N: 486442.22
E: 807532.28

RIO BLANCO 4-33 FEDERAL COM 105Y

EL: 3400.9'
2384' FNL 1504' FEL SEC. 4
N: 486442.13
E: 807562.28

RIO BLANCO 4-33 FEDERAL COM 106H

EL: 3400.7'
2385' FNL 1474' FEL SEC. 4
N: 486442.04
E: 807592.28



Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DELAWARE BASIN ROAD AND ANTELOPE ROAD, HEAD WEST ON DELAWARE BASIN ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD NORTH ONTO AN ACCESS ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD EAST ONTO AN ACCESS ROAD FOR 0.7 OF A MILE TO A PROPOSED ACCESS ROAD. CONTINUE ON THE PROPOSED ACCESS ROAD ROUTE FOR 740' TO THE NORTHEAST CORNER OF THE RIO BLANCO 4 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

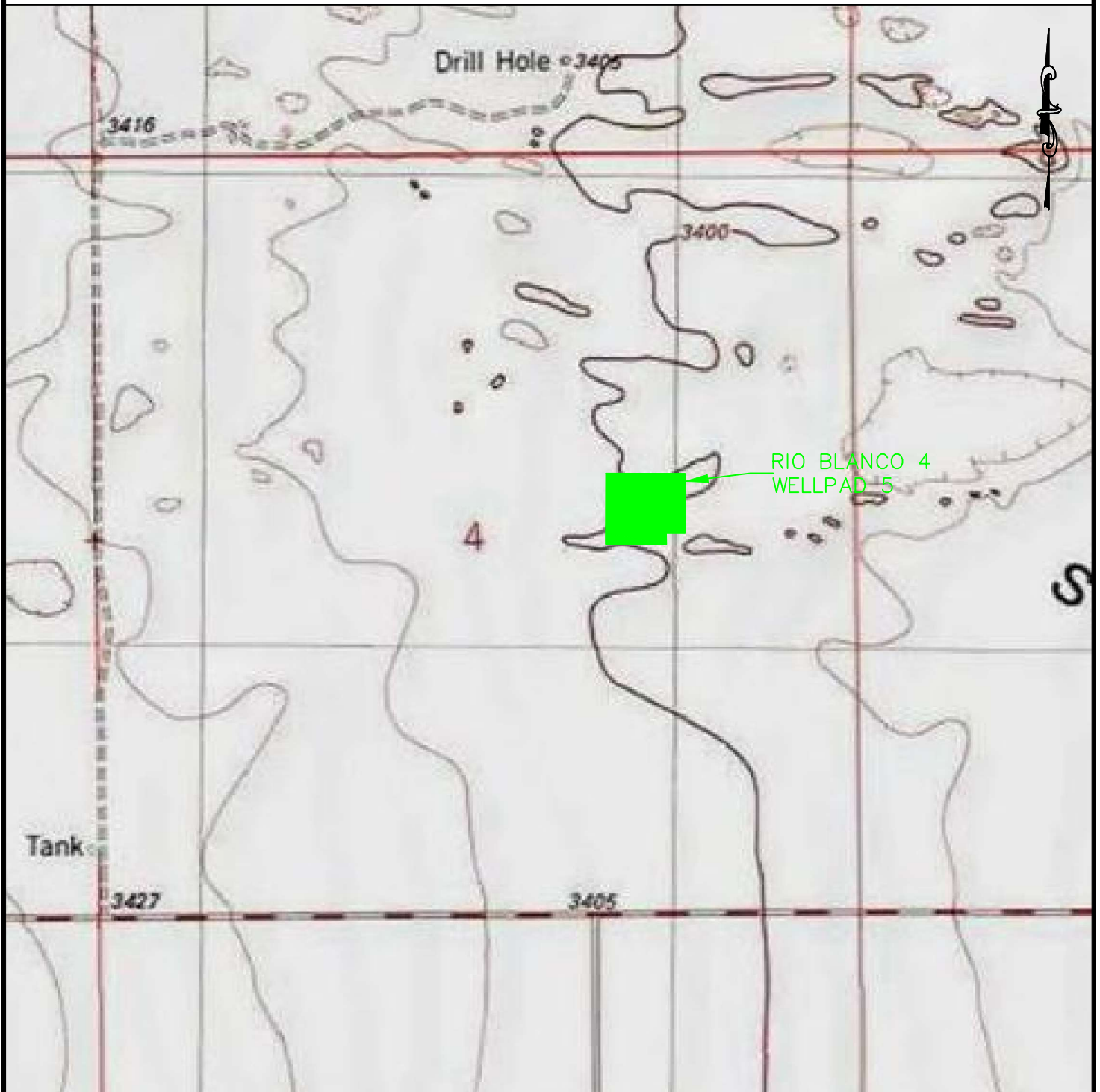
Drawn by:
CHRIS MAAS

Date: 09/22/23
Date: 04/10/25

Drawn for:



SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



0 1000 2000



HORIZON ROW LLC

Drawn for:

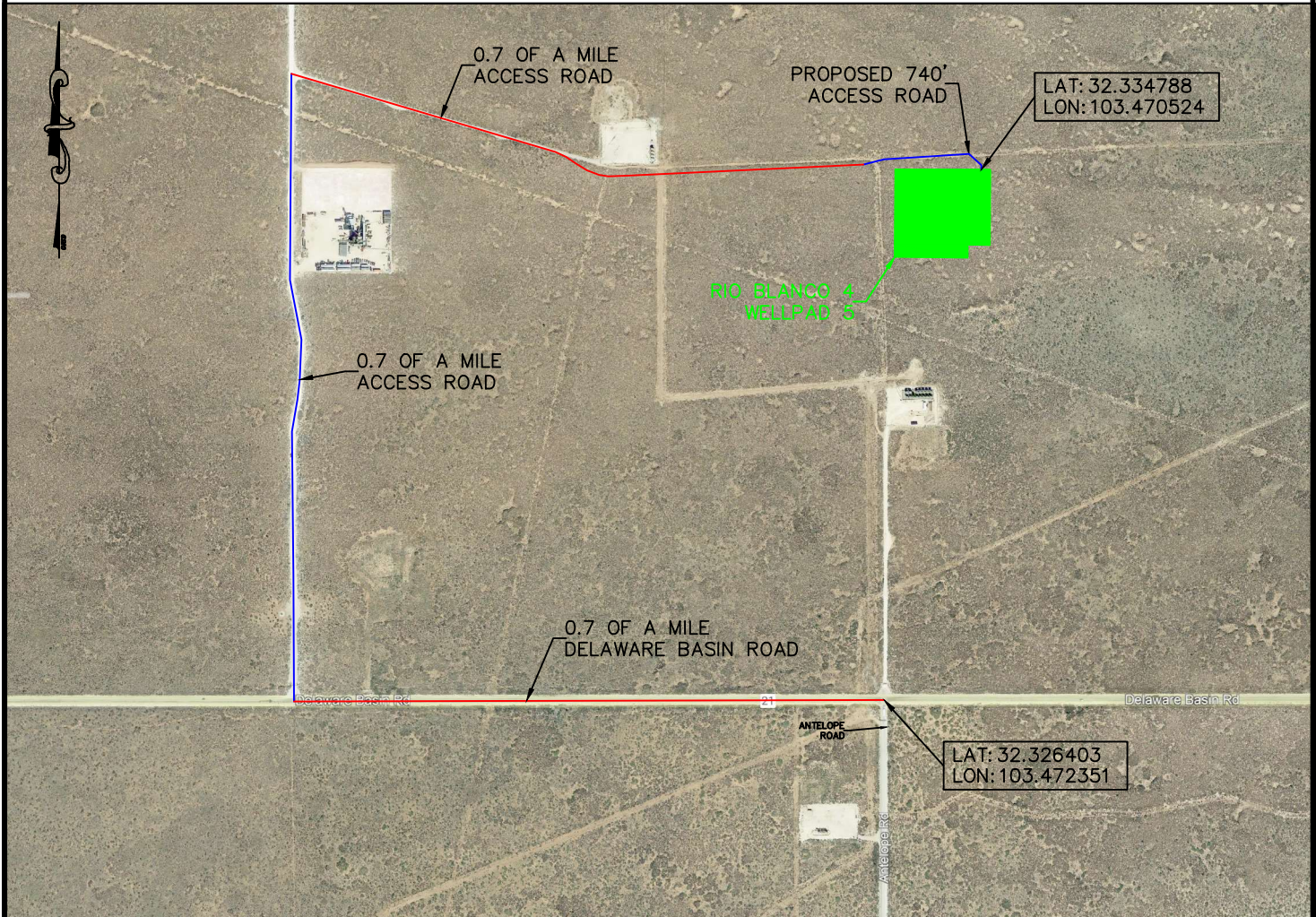
DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/22/2023

devon

SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DELAWARE BASIN ROAD AND ANTELOPE ROAD, HEAD WEST ON DELAWARE BASIN ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD NORTH ONTO AN ACCESS ROAD FOR 0.7 OF A MILE. TURN RIGHT AND HEAD EAST ONTO AN ACCESS ROAD FOR 0.7 OF A MILE TO A PROPOSED ACCESS ROAD. CONTINUE ON THE PROPOSED ACCESS ROAD ROUTE FOR 740' TO THE NORTHEAST CORNER OF THE RIO BLANCO 4 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

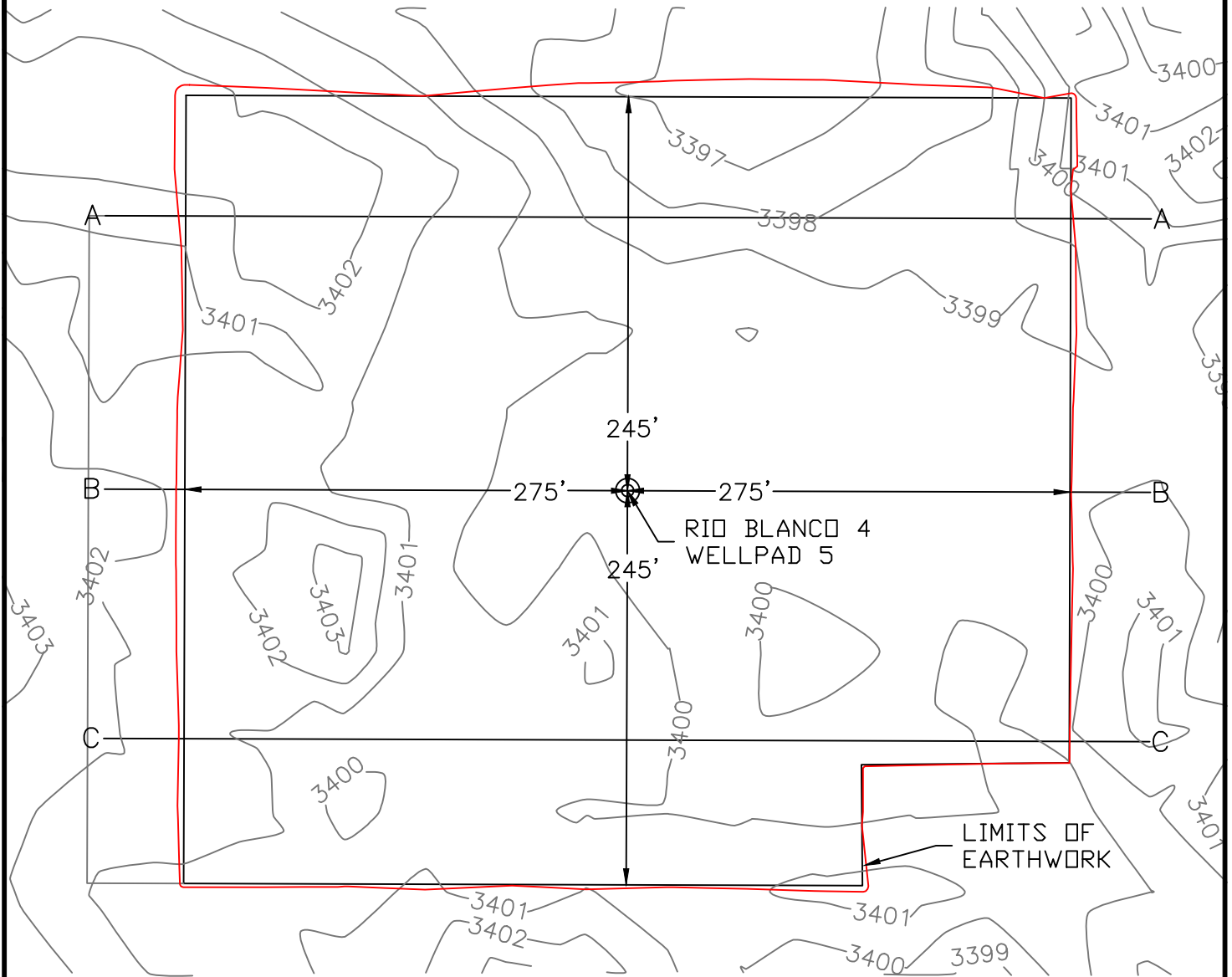
Drawn by:
CHRIS MAAS

Date: 09/22/2023

Drawn for:

devon

SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



EARTHWORK QUANTITIES FOR
RIO BLANCO 4 WELLPAD 5

CUT	FILL	NET
4,235 CY	4,235 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

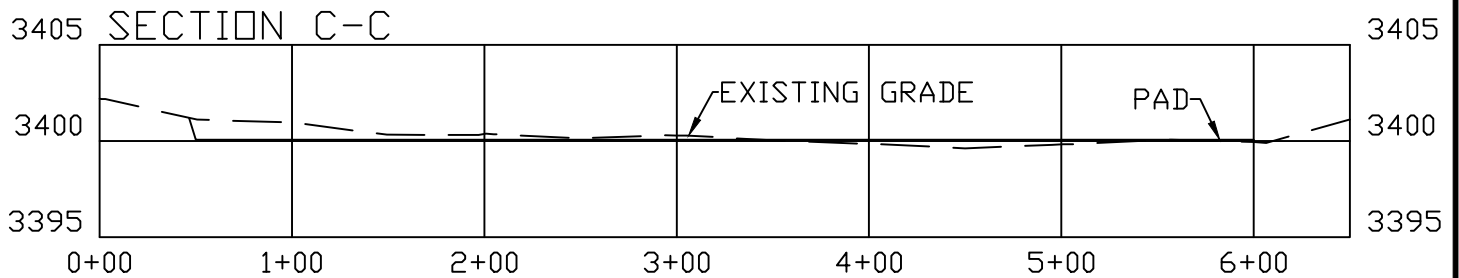
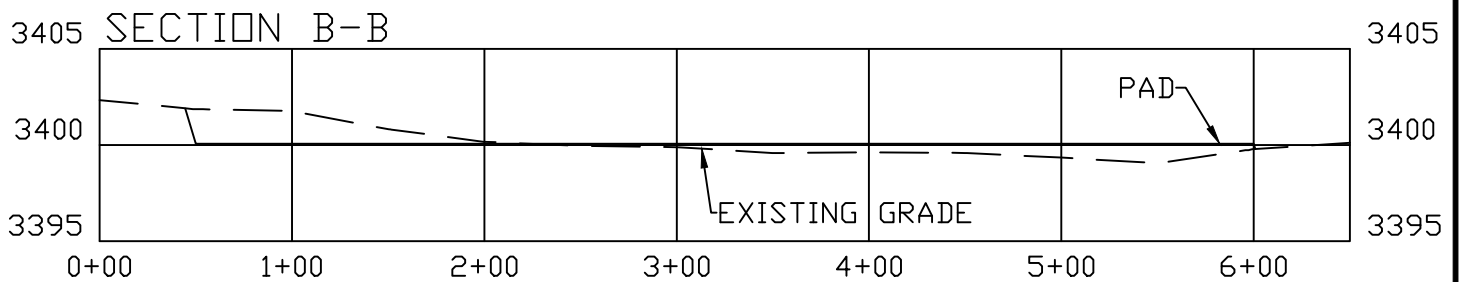
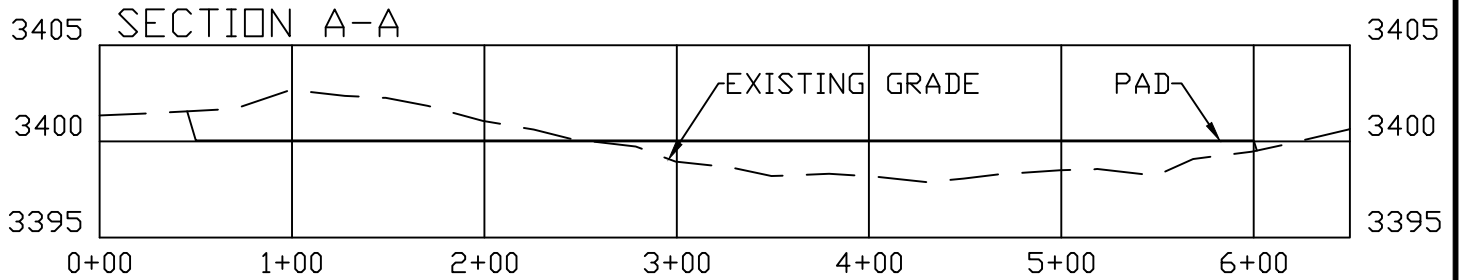
Drawn by:
CHRIS MAAS

Date: 09/22/2023

Drawn for:



SECTION 4, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
CROSS SECTIONS



SCALE 1" = 100' HORIZONTAL
SCALE 1" = 5' VERTICAL

EARTHWORK QUANTITIES FOR
RIO BLANCO 4 WELLPAD 5

CUT	FILL	NET
4,235 CY	4,235 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/21/2023

Drawn for:



RIO BLANCO 4-33 FED COM 105H

1. Geologic Formations

TVD of target	9900	Pilot hole depth	N/A
MD at TD:	17520	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	2370		
Salt	2700		
Base of Salt	4965		
Delaware	5130		
Cherry Canyon	6000		
Brushy Canyon	7110		
1st Bone Spring Lime	8455		
Bone Spring 1st	9520		
2BSSS	10040		
3BSSS	10940		
Wolfcamp	11295		
Strawn	11800		
Atoka	12175		
Morrow	12745		
Barnett	13785		
Miss	13975		
Woodford	14415		

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

RIO BLANCO 4-33 FED COM 105H

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
26	20	133	J-55	BTC	0	2395	0	2395
17 1/2	13 3/8	68	J-55	BTC	0	5100	0	5100
12 1/4	9 5/8	40	P110	BTC	0	11850	0	11800
8 3/4	5 1/2	17	P110	BTC	0	17520	0	9900

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

RIO BLANCO 4-33 FED COM 105H

3. Cementing Program (4-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	3863	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	1421	Surf	9.0	3.3	Lead: Class C Cement + additives
	332	4565	13.2	1.4	Tail: Class H / C + additives
Int 2	1119	Surf	9.0	3.3	Lead: Class H / V Cement + additives
	660	9440	13.2	1.4	Tail: Class H / C + additives
Production	408	4565	9.0	3.3	Lead: Class H / C + additives
	1578	9348	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. 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.

Cement Excess	
Surface	50%
Intermediate 1 and Intermediate 2	25%
Production	10%

RIO BLANCO 4-33 FED COM 105H

4. Pressure Control Equipment (4 String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Intermediate 1	Diverter	3M	Annular	X	100% of rated working pressure
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
Intermediate 2	13-5/8"	10M	Annular	X	100% of rated working pressure
			Blind Ram	X	10M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		

5. 8-3/4" Pilot Hole and Plugging Program

- 1) 8-3/4" Pilot hole from 11850-14650
- 2) Pilot hole will be plugged back per NMOCD P&A requirements with a cement plug
- 3) All cement will be 100ft in length +10% per 1000ft of TVD
- 4) Plug depths will be verified and tagged in the plug back (min 6hr wait time)
- 5) Devon will contact the NMOCD and give notice before performing any of the aforementioned procedures including the tagging of cement
- 6) Whip stock will be set around 9,000ft

Cement Plugs	Hole Size	# Sks	Depth	Wt. (lb/gal)	Water (gal/sx)	Yld (ft3/sack)	Slurry Description
Wolfcamp, Strawn	8-3/4"	333	11132-11900	15.6	5.24	1.06	Class H + additives
Atoka, Morrow	8-3/4"	365	11953-12795	15.6	5.24	1.06	Class H + additives
Barnett, Miss, Woodford	8-3/4"	375	13785-TD (14650)	15.6	5.24	1.06	Class H + additives

RIO BLANCO 4-33 FED COM 105H

6. Mud Program (4 String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate I & II	Cut Brine to Brine	10-10.5
Production	WBM	8.5-9
Pilot	WBM	12-14

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

--	--

7. 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.
	Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
X	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

8. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	4633
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	H ₂ S is present
Y	H ₂ S plan attached.

RIO BLANCO 4-33 FED COM 105H

9. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, 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 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? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 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 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 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

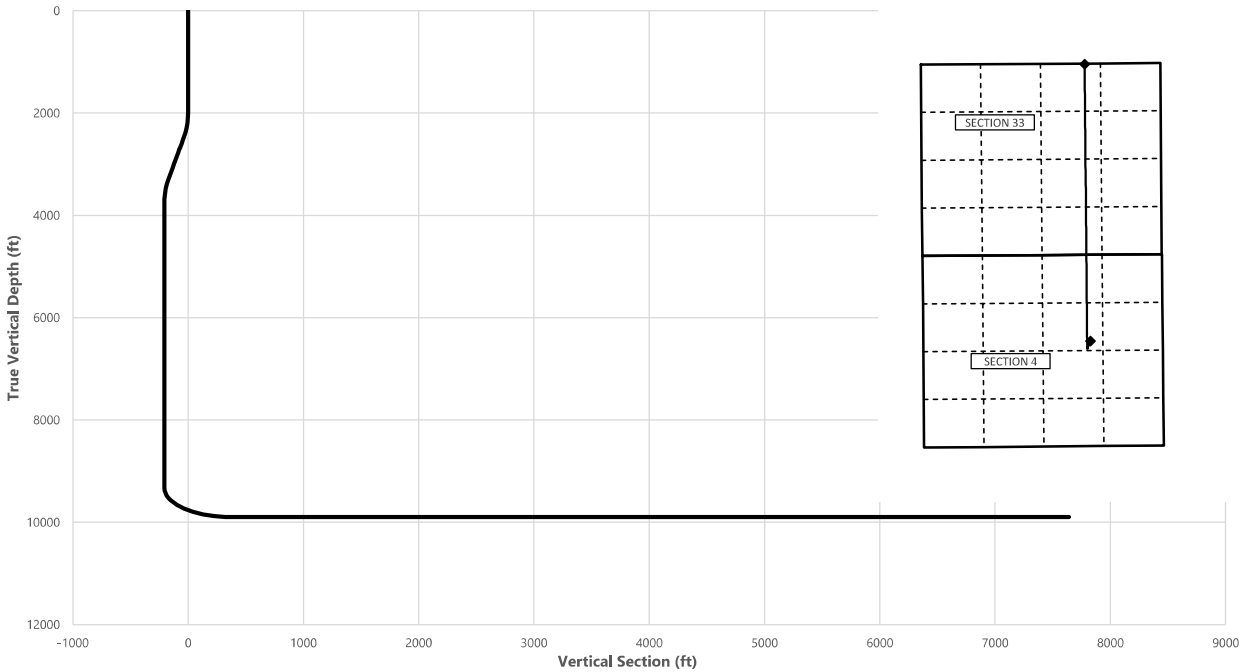
X Directional Plan
____ Other, describe



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	199.54	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	199.54	2497.47	-41.02	-14.56	-40.76	2.00	Hold Tangent
3270.07	10.00	199.54	3255.84	-167.04	-59.28	-166.01	0.00	Drop to Vertical
3770.07	0.00	199.54	3753.30	-208.05	-73.84	-206.78	2.00	Hold Vertical
9343.81	0.00	359.60	9327.04	-208.05	-73.84	-206.78	0.00	KOP
10243.81	90.00	359.60	9900.00	364.89	-77.85	366.15	10.00	Landing Point
17520.23	90.00	359.60	9900.00	7641.13	-128.82	7642.22	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	2371.04	2370.00
Salt	2705.66	2700.00
Base of Salt	4981.77	4965.00
Delaware	5146.77	5130.00
Cherry Canyon	6016.77	6000.00
Brushy Canyon	7126.77	7110.00
1st Bone Spring Lime	8471.77	8455.00
Bone Spring 1st / Point of Penetratic	9540.62	9520.00
exit	17440.23	9900.01

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.3343	-103.4718	2383' FNL, 1594' FEL of Sec 4 in T23S, R34E
9343.81	9327.04	32.3333	-103.4719	2591' FNL, 1670' FEL of Sec 4 in T22S, R34E
9540.62	9520.00	32.3339	-103.4719	2541' FNL, 1670' FEL of Sec 4 in T22S, R34E
17440.23	9900.01	32.3551	-103.4719	100' FNL, 1670' FEL of Sec 33 in T23S, R34E
17520.23	9900.00	32.3553	-103.4720	20' FNL, 1670' FEL of Sec 33 in T23S, R34E

	Y	X	MD
KOP	486234	807398	9343.81

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	199.54	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	199.54	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	199.54	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	199.54	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	199.54	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	199.54	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	199.54	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	199.54	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	199.54	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	199.54	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	199.54	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	199.54	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	199.54	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	199.54	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	199.54	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	199.54	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	199.54	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	199.54	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	199.54	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	199.54	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	199.54	2099.98	-1.64	-0.58	-1.63	2.00	
2200.00	4.00	199.54	2199.84	-6.58	-2.33	-6.54	2.00	
2300.00	6.00	199.54	2299.45	-14.79	-5.25	-14.70	2.00	
2371.04	7.42	199.54	2370.00	-22.61	-8.03	-22.47	2.00	Rustler
2400.00	8.00	199.54	2398.70	-26.27	-9.32	-26.11	2.00	
2500.00	10.00	199.54	2497.47	-41.02	-14.56	-40.76	2.00	Hold Tangent
2600.00	10.00	199.54	2595.95	-57.38	-20.36	-57.03	0.00	
2700.00	10.00	199.54	2694.43	-73.75	-26.17	-73.29	0.00	
2705.66	10.00	199.54	2700.00	-74.67	-26.50	-74.21	0.00	Salt
2800.00	10.00	199.54	2792.91	-90.11	-31.98	-89.56	0.00	
2900.00	10.00	199.54	2891.39	-106.48	-37.79	-105.82	0.00	
3000.00	10.00	199.54	2989.87	-122.84	-43.60	-122.09	0.00	
3100.00	10.00	199.54	3088.35	-139.20	-49.40	-138.35	0.00	
3200.00	10.00	199.54	3186.83	-155.57	-55.21	-154.62	0.00	
3270.07	10.00	199.54	3255.84	-167.04	-59.28	-166.01	0.00	Drop to Vertical
3300.00	9.40	199.54	3285.34	-171.79	-60.97	-170.74	2.00	
3400.00	7.40	199.54	3384.26	-185.56	-65.86	-184.42	2.00	
3500.00	5.40	199.54	3483.63	-196.06	-69.58	-194.86	2.00	
3600.00	3.40	199.54	3583.33	-203.30	-72.15	-202.05	2.00	
3700.00	1.40	199.54	3683.24	-207.24	-73.55	-205.98	2.00	
3770.07	0.00	199.54	3753.30	-208.05	-73.84	-206.78	2.00	Hold Vertical
3800.00	0.00	359.60	3783.23	-208.05	-73.84	-206.78	0.00	
3900.00	0.00	359.60	3883.23	-208.05	-73.84	-206.78	0.00	
4000.00	0.00	359.60	3983.23	-208.05	-73.84	-206.78	0.00	
4100.00	0.00	359.60	4083.23	-208.05	-73.84	-206.78	0.00	
4200.00	0.00	359.60	4183.23	-208.05	-73.84	-206.78	0.00	
4300.00	0.00	359.60	4283.23	-208.05	-73.84	-206.78	0.00	
4400.00	0.00	359.60	4383.23	-208.05	-73.84	-206.78	0.00	
4500.00	0.00	359.60	4483.23	-208.05	-73.84	-206.78	0.00	
4600.00	0.00	359.60	4583.23	-208.05	-73.84	-206.78	0.00	
4700.00	0.00	359.60	4683.23	-208.05	-73.84	-206.78	0.00	
4800.00	0.00	359.60	4783.23	-208.05	-73.84	-206.78	0.00	
4900.00	0.00	359.60	4883.23	-208.05	-73.84	-206.78	0.00	
4981.77	0.00	359.60	4965.00	-208.05	-73.84	-206.78	0.00	Base of Salt
5000.00	0.00	359.60	4983.23	-208.05	-73.84	-206.78	0.00	
5100.00	0.00	359.60	5083.23	-208.05	-73.84	-206.78	0.00	
5146.77	0.00	359.60	5130.00	-208.05	-73.84	-206.78	0.00	Delaware
5200.00	0.00	359.60	5183.23	-208.05	-73.84	-206.78	0.00	
5300.00	0.00	359.60	5283.23	-208.05	-73.84	-206.78	0.00	
5400.00	0.00	359.60	5383.23	-208.05	-73.84	-206.78	0.00	
5500.00	0.00	359.60	5483.23	-208.05	-73.84	-206.78	0.00	
5600.00	0.00	359.60	5583.23	-208.05	-73.84	-206.78	0.00	
5700.00	0.00	359.60	5683.23	-208.05	-73.84	-206.78	0.00	
5800.00	0.00	359.60	5783.23	-208.05	-73.84	-206.78	0.00	
5900.00	0.00	359.60	5883.23	-208.05	-73.84	-206.78	0.00	
6000.00	0.00	359.60	5983.23	-208.05	-73.84	-206.78	0.00	
6016.77	0.00	359.60	6000.00	-208.05	-73.84	-206.78	0.00	Cherry Canyon
6100.00	0.00	359.60	6083.23	-208.05	-73.84	-206.78	0.00	
6200.00	0.00	359.60	6183.23	-208.05	-73.84	-206.78	0.00	

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.60	6283.23	-208.05	-73.84	-206.78	0.00	
6400.00	0.00	359.60	6383.23	-208.05	-73.84	-206.78	0.00	
6500.00	0.00	359.60	6483.23	-208.05	-73.84	-206.78	0.00	
6600.00	0.00	359.60	6583.23	-208.05	-73.84	-206.78	0.00	
6700.00	0.00	359.60	6683.23	-208.05	-73.84	-206.78	0.00	
6800.00	0.00	359.60	6783.23	-208.05	-73.84	-206.78	0.00	
6900.00	0.00	359.60	6883.23	-208.05	-73.84	-206.78	0.00	
7000.00	0.00	359.60	6983.23	-208.05	-73.84	-206.78	0.00	
7100.00	0.00	359.60	7083.23	-208.05	-73.84	-206.78	0.00	
7126.77	0.00	359.60	7110.00	-208.05	-73.84	-206.78	0.00	Brushy Canyon
7200.00	0.00	359.60	7183.23	-208.05	-73.84	-206.78	0.00	
7300.00	0.00	359.60	7283.23	-208.05	-73.84	-206.78	0.00	
7400.00	0.00	359.60	7383.23	-208.05	-73.84	-206.78	0.00	
7500.00	0.00	359.60	7483.23	-208.05	-73.84	-206.78	0.00	
7600.00	0.00	359.60	7583.23	-208.05	-73.84	-206.78	0.00	
7700.00	0.00	359.60	7683.23	-208.05	-73.84	-206.78	0.00	
7800.00	0.00	359.60	7783.23	-208.05	-73.84	-206.78	0.00	
7900.00	0.00	359.60	7883.23	-208.05	-73.84	-206.78	0.00	
8000.00	0.00	359.60	7983.23	-208.05	-73.84	-206.78	0.00	
8100.00	0.00	359.60	8083.23	-208.05	-73.84	-206.78	0.00	
8200.00	0.00	359.60	8183.23	-208.05	-73.84	-206.78	0.00	
8300.00	0.00	359.60	8283.23	-208.05	-73.84	-206.78	0.00	
8400.00	0.00	359.60	8383.23	-208.05	-73.84	-206.78	0.00	
8471.77	0.00	359.60	8455.00	-208.05	-73.84	-206.78	0.00	1st Bone Spring Lime
8500.00	0.00	359.60	8483.23	-208.05	-73.84	-206.78	0.00	
8600.00	0.00	359.60	8583.23	-208.05	-73.84	-206.78	0.00	
8700.00	0.00	359.60	8683.23	-208.05	-73.84	-206.78	0.00	
8800.00	0.00	359.60	8783.23	-208.05	-73.84	-206.78	0.00	
8900.00	0.00	359.60	8883.23	-208.05	-73.84	-206.78	0.00	
9000.00	0.00	359.60	8983.23	-208.05	-73.84	-206.78	0.00	
9100.00	0.00	359.60	9083.23	-208.05	-73.84	-206.78	0.00	
9200.00	0.00	359.60	9183.23	-208.05	-73.84	-206.78	0.00	
9300.00	0.00	359.60	9283.23	-208.05	-73.84	-206.78	0.00	
9343.81	0.00	359.60	9327.04	-208.05	-73.84	-206.78	0.00	KOP
9400.00	5.62	359.60	9383.14	-205.30	-73.86	-204.03	10.00	
9500.00	15.62	359.60	9481.30	-186.90	-73.99	-185.62	10.00	
9540.62	19.68	359.60	9520.00	-174.58	-74.07	-173.31	10.00	Bone Spring 1st / Point of Penetration
9600.00	25.62	359.60	9574.78	-151.73	-74.23	-150.45	10.00	
9700.00	35.62	359.60	9660.73	-100.86	-74.59	-99.59	10.00	
9800.00	45.62	359.60	9736.54	-35.84	-75.05	-34.57	10.00	
9900.00	55.62	359.60	9799.90	41.35	-75.59	42.62	10.00	
10000.00	65.62	359.60	9848.90	128.38	-76.20	129.64	10.00	
10100.00	75.62	359.60	9882.05	222.59	-76.86	223.85	10.00	
10200.00	85.62	359.60	9898.33	321.12	-77.55	322.39	10.00	
10243.81	90.00	359.60	9900.00	364.89	-77.85	366.15	10.00	Landing Point
10300.00	90.00	359.60	9900.00	421.08	-78.25	422.34	0.00	
10400.00	90.00	359.60	9900.00	521.08	-78.95	522.33	0.00	
10500.00	90.00	359.60	9900.00	621.07	-79.65	622.33	0.00	
10600.00	90.00	359.60	9900.00	721.07	-80.35	722.32	0.00	
10700.00	90.00	359.60	9900.00	821.07	-81.05	822.32	0.00	
10800.00	90.00	359.60	9900.00	921.07	-81.75	922.31	0.00	
10900.00	90.00	359.60	9900.00	1021.06	-82.45	1022.31	0.00	
11000.00	90.00	359.60	9900.00	1121.06	-83.15	1122.30	0.00	
11100.00	90.00	359.60	9900.00	1221.06	-83.85	1222.30	0.00	
11200.00	90.00	359.60	9900.00	1321.06	-84.55	1322.29	0.00	
11300.00	90.00	359.60	9900.00	1421.05	-85.26	1422.29	0.00	
11400.00	90.00	359.60	9900.00	1521.05	-85.96	1522.29	0.00	
11500.00	90.00	359.60	9900.00	1621.05	-86.66	1622.28	0.00	
11600.00	90.00	359.60	9900.00	1721.05	-87.36	1722.28	0.00	
11700.00	90.00	359.60	9900.00	1821.04	-88.06	1822.27	0.00	
11800.00	90.00	359.60	9900.00	1921.04	-88.76	1922.27	0.00	
11900.00	90.00	359.60	9900.00	2021.04	-89.46	2022.26	0.00	
12000.00	90.00	359.60	9900.00	2121.04	-90.16	2122.26	0.00	
12100.00	90.00	359.60	9900.00	2221.03	-90.86	2222.25	0.00	
12200.00	90.00	359.60	9900.00	2321.03	-91.56	2322.25	0.00	
12300.00	90.00	359.60	9900.00	2421.03	-92.27	2422.24	0.00	
12400.00	90.00	359.60	9900.00	2521.03	-92.97	2522.24	0.00	
12500.00	90.00	359.60	9900.00	2621.03	-93.67	2622.23	0.00	
12600.00	90.00	359.60	9900.00	2721.02	-94.37	2722.23	0.00	
12700.00	90.00	359.60	9900.00	2821.02	-95.07	2822.22	0.00	

RIO BLANCO 4-33 FED COM 105H



Well: RIO BLANCO 4-33 FED COM 105H
County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	359.60	9900.00	2921.02	-95.77	2922.22	0.00	
12900.00	90.00	359.60	9900.00	3021.02	-96.47	3022.21	0.00	
13000.00	90.00	359.60	9900.00	3121.01	-97.17	3122.21	0.00	
13100.00	90.00	359.60	9900.00	3221.01	-97.87	3222.20	0.00	
13200.00	90.00	359.60	9900.00	3321.01	-98.57	3322.20	0.00	
13300.00	90.00	359.60	9900.00	3421.01	-99.28	3422.19	0.00	
13400.00	90.00	359.60	9900.01	3521.00	-99.98	3522.19	0.00	
13500.00	90.00	359.60	9900.01	3621.00	-100.68	3622.18	0.00	
13600.00	90.00	359.60	9900.01	3721.00	-101.38	3722.18	0.00	
13700.00	90.00	359.60	9900.01	3821.00	-102.08	3822.17	0.00	
13800.00	90.00	359.60	9900.01	3920.99	-102.78	3922.17	0.00	
13900.00	90.00	359.60	9900.01	4020.99	-103.48	4022.16	0.00	
14000.00	90.00	359.60	9900.01	4120.99	-104.18	4122.16	0.00	
14100.00	90.00	359.60	9900.01	4220.99	-104.88	4222.15	0.00	
14200.00	90.00	359.60	9900.01	4320.98	-105.58	4322.15	0.00	
14300.00	90.00	359.60	9900.01	4420.98	-106.29	4422.14	0.00	
14400.00	90.00	359.60	9900.01	4520.98	-106.99	4522.14	0.00	
14500.00	90.00	359.60	9900.01	4620.98	-107.69	4622.13	0.00	
14600.00	90.00	359.60	9900.01	4720.97	-108.39	4722.13	0.00	
14700.00	90.00	359.60	9900.01	4820.97	-109.09	4822.13	0.00	
14800.00	90.00	359.60	9900.01	4920.97	-109.79	4922.12	0.00	
14900.00	90.00	359.60	9900.01	5020.97	-110.49	5022.12	0.00	
15000.00	90.00	359.60	9900.01	5120.96	-111.19	5122.11	0.00	
15100.00	90.00	359.60	9900.01	5220.96	-111.89	5222.11	0.00	
15200.00	90.00	359.60	9900.01	5320.96	-112.59	5322.10	0.00	
15300.00	90.00	359.60	9900.01	5420.96	-113.30	5422.10	0.00	
15400.00	90.00	359.60	9900.01	5520.95	-114.00	5522.09	0.00	
15500.00	90.00	359.60	9900.01	5620.95	-114.70	5622.09	0.00	
15600.00	90.00	359.60	9900.01	5720.95	-115.40	5722.08	0.00	
15700.00	90.00	359.60	9900.01	5820.95	-116.10	5822.08	0.00	
15800.00	90.00	359.60	9900.01	5920.94	-116.80	5922.07	0.00	
15900.00	90.00	359.60	9900.01	6020.94	-117.50	6022.07	0.00	
16000.00	90.00	359.60	9900.01	6120.94	-118.20	6122.06	0.00	
16100.00	90.00	359.60	9900.01	6220.94	-118.90	6222.06	0.00	
16200.00	90.00	359.60	9900.01	6320.93	-119.60	6322.05	0.00	
16300.00	90.00	359.60	9900.01	6420.93	-120.30	6422.05	0.00	
16400.00	90.00	359.60	9900.01	6520.93	-121.01	6522.04	0.00	
16500.00	90.00	359.60	9900.01	6620.93	-121.71	6622.04	0.00	
16600.00	90.00	359.60	9900.01	6720.92	-122.41	6722.03	0.00	
16700.00	90.00	359.60	9900.01	6820.92	-123.11	6822.03	0.00	
16800.00	90.00	359.60	9900.01	6920.92	-123.81	6922.02	0.00	
16900.00	90.00	359.60	9900.01	7020.92	-124.51	7022.02	0.00	
17000.00	90.00	359.60	9900.01	7120.91	-125.21	7122.01	0.00	
17100.00	90.00	359.60	9900.01	7220.91	-125.91	7222.01	0.00	
17200.00	90.00	359.60	9900.01	7320.91	-126.61	7322.00	0.00	
17300.00	90.00	359.60	9900.01	7420.91	-127.31	7422.00	0.00	
17400.00	90.00	359.60	9900.01	7520.90	-128.02	7521.99	0.00	
17440.23	90.00	359.60	9900.01	7561.13	-128.30	7562.22	0.00	exit
17500.00	90.00	359.60	9900.01	7620.90	-128.72	7621.99	0.00	
17520.23	90.00	359.60	9900.00	7641.13	-128.82	7642.22	0.00	BHL

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 452399

COMMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 452399
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
matthew.gomez	Well has been skid. Previous API # 30-025-54249	4/15/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 452399

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 452399
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	4/15/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	4/15/2025
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	4/15/2025
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	4/15/2025
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/15/2025
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/15/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/15/2025