

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM100864

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

RIO BLANCO 4 33 FED COM 2H

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: REBECCA DEAL

Email: Rebecca.Deal@dnv.com

9. API Well No.

30-025-43245-00-X1

3a. Address

6488 SEVEN RIVERS HIGHWAY
ARTESIA, NM 88211

3b. Phone No. (include area code)

Ph: 405-228-8429

10. Field and Pool or Exploratory Area

GRAMA RIDGE

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

Sec 4 T23S R34E SWNW 2630FNL 350FWL

11. County or Parish, State

LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 recompletion 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 Co., L.P. respectfully requests the following change to the APD:

Target change from 18,732' to 17,145'

Change of production casing design from 7" x 5.5" to full string of 5.5"

Please see attached AC report, directional plan, drilling plan and sundry summary.

All previous COAs still apply

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #393655 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COMPANY, sent to the Hobbs Committed to AFMSS for processing by CHARLES NIMMER on 11/09/2017 (18CN0009SE)	
Name (Printed/Typed) REBECCA DEAL	Title REGULATORY COMPLIANCE PROFESSI
Signature (Electronic Submission)	Date 10/31/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHARLES NIMMER	Title PETROLEUM ENGINEER	Date 11/09/2017
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 Hobbs

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)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

KZ

Devon Energy, Rio Blanco 4-33 Fed Com 2H

1. Geologic Formations

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	2293		
Salado	2674		
Capitan Reef	3540		
Base of Salt	5126		
Delaware	5126		
Lwr Brushy	8252		
1st BSPG Lime	8433		
LNRD A	8611		
LNRD A Target	8767		
LNRD A Target Base	8837		

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

Devon Energy, Rio Blanco 4-33 Fed Com 2H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
8.75"	0	17,145	5.5"	17	P-110	BTC	1.25	1.00	1.8
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

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

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

Devon Energy, Rio Blanco 4-33 Fed Com 2H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	Slurry Description
5.5"	523	11	17.38	2.811	Lead: NeoCem
	1571	13.2	7.46	1.468	Tail: NeoCem

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
5-1/2" Production Casing	4600'	25%

4. Pressure Control Equipment

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

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

*Specify if additional ram is utilized.

Devon Energy, Rio Blanco 4-33 Fed Com 2H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
5,100'	TD	Cut brine/brine	8.6-8.8	28	N/C

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

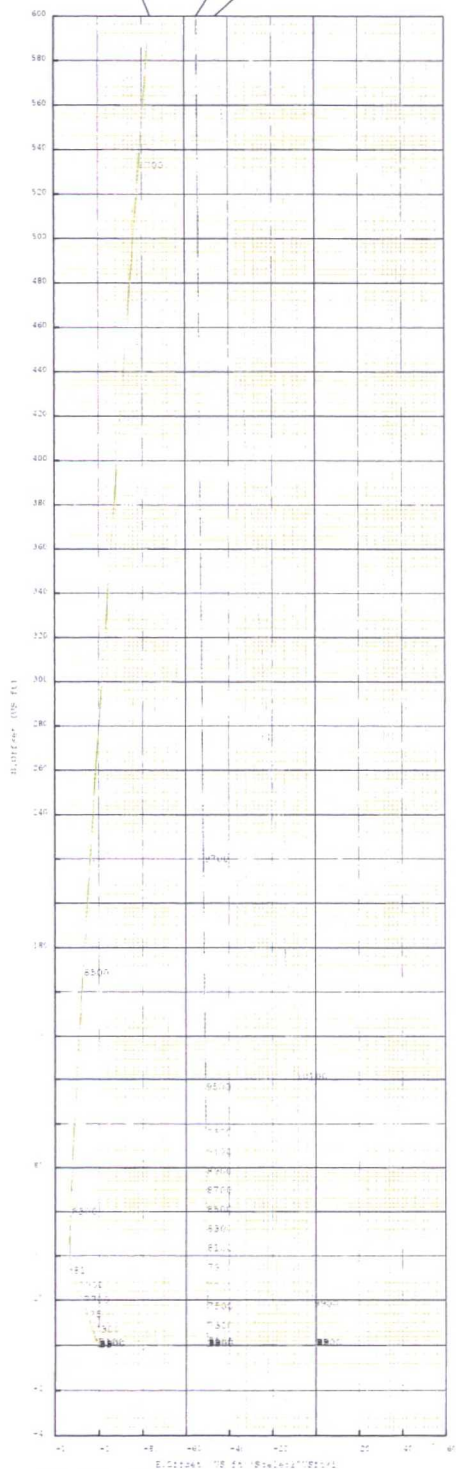
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------



Devon Energy
Rio Blanco 4-33 Fed Com Pad
Lea County, NM
Plan P1:V1

Spider Plot P1:V1

Rio Blanco 4-33 Fed Com 1H
Rio Blanco 4-33 Fed Com 2H
Rio Blanco 4-33 Fed Com 3H



Rio Blanco 4-33 Fed Com 3H
Rio Blanco 4-33 Fed Com 2H
Rio Blanco 4-33 Fed Com 1H



5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Rio Blanco 4-33 Fed Com Pad*
Well Name: *Rio Blanco 4-33 Fed Com 2H*
Plan: *P1:V1*

28 September 2017





Rio Blanco 4-33 Fed Com 2H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Rio Blanco 4-33 Fed Com Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.46	
	Position:	Northing: 486169.03 US ft	Latitude: 32° 20' 1.25"	
		Easting: 804186.97 US ft	Longitude: -103° 28' 56.34"	
	Elevation above MSL:3415.80 US ft		Comment:	
Slot: Rio Blanco 4-33 Fed Com 2H	Position (Relative to Site Centre)			
	+N/-S: -0.34 US ft	Northing: 486168.69 US ft	Latitude: 32°20'1.25"	
	+E/-W: -50.01 US ft	Easting: 804136.96 US ft	Longitude: -103°28'56.92"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3415.90 US ft		Comment:		
Well: Rio Blanco 4-33 Fed Com 2H	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7577.67US ft		Closure Azimuth:359.57°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: -0.00 US ft	Az: 359.57°
	Magnetic Parameters:			
	Model: bggm2017	Field Strength: 48055.7nT	Declination: 6.95°	Dip: 60.16° Date: 15/Oct/2017

Drill floor: Plan: P1:V1

Rig Height (Drill Floor): 24.10 US ft	Elevation above MSL: 3440.00 US ft	Inclination: 0.00°	Azimuth: 0.00°
---	--	---------------------------	-----------------------

Target set: RB 4-33 FC 2H Comment:

Target Name:	Shape:	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
0 VS	Point	9885.00	0.00	0.00	486168.69	804136.96	
PBHL 2H	Point	9915.00	7577.46	-56.82	493746.15	804080.14	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: - 0.00 US ft
-----------------------	------------------------------	-----------------------	---------------------------	------------------------------------	-------------------------------------

Plot Report

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	Nudge @ 1° DLS
7250.00	2.50	359.57	7249.92	5.45	5.45	-0.04	486174.14	804136.92	1.00	Hold
9391.40	2.50	359.57	9389.28	98.86	98.86	-0.74	486267.55	804136.22	0.00	KOP-Build @ 11° DLS
10184.79	89.77	359.57	9887.43	617.17	617.15	-4.63	486785.84	804132.33	11.00	Landing Pt
17145.35	89.77	359.57	9915.00	7577.67	7577.46	-56.82	493746.15	804080.14	0.00	PBHL 2H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	

Plot Report

Plot Report

SID Plot Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
4800.00	0.00	0.00	4800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	Nudge @ 1° DLS
7100.00	1.00	359.57	7099.99	0.87	0.87	-0.01	486169.56	804136.95	1.00	
7200.00	2.00	359.57	7199.96	3.49	3.49	-0.03	486172.18	804136.93	1.00	
7250.00	2.50	359.57	7249.92	5.45	5.45	-0.04	486174.14	804136.92	1.00	Hold
7300.00	2.50	359.57	7299.87	7.63	7.63	-0.06	486176.32	804136.90	0.00	
7400.00	2.50	359.57	7399.78	12.00	12.00	-0.09	486180.69	804136.87	0.00	
7500.00	2.50	359.57	7499.68	16.36	16.36	-0.12	486185.05	804136.84	0.00	
7600.00	2.50	359.57	7599.59	20.72	20.72	-0.16	486189.41	804136.80	0.00	
7700.00	2.50	359.57	7699.49	25.08	25.08	-0.19	486193.77	804136.77	0.00	
7800.00	2.50	359.57	7799.40	29.44	29.44	-0.22	486198.13	804136.74	0.00	
7900.00	2.50	359.57	7899.30	33.81	33.80	-0.25	486202.49	804136.71	0.00	
8000.00	2.50	359.57	7999.21	38.17	38.17	-0.29	486206.86	804136.67	0.00	
8100.00	2.50	359.57	8099.11	42.53	42.53	-0.32	486211.22	804136.64	0.00	
8200.00	2.50	359.57	8199.02	46.89	46.89	-0.35	486215.58	804136.61	0.00	
8300.00	2.50	359.57	8298.92	51.25	51.25	-0.38	486219.94	804136.58	0.00	
8400.00	2.50	359.57	8398.83	55.62	55.61	-0.42	486224.30	804136.54	0.00	
8500.00	2.50	359.57	8498.73	59.98	59.98	-0.45	486228.67	804136.51	0.00	
8600.00	2.50	359.57	8598.64	64.34	64.34	-0.48	486233.03	804136.48	0.00	
8700.00	2.50	359.57	8698.54	68.70	68.70	-0.52	486237.39	804136.44	0.00	
8800.00	2.50	359.57	8798.45	73.06	73.06	-0.55	486241.75	804136.41	0.00	
8900.00	2.50	359.57	8898.35	77.43	77.42	-0.58	486246.11	804136.38	0.00	
9000.00	2.50	359.57	8998.26	81.79	81.78	-0.61	486250.47	804136.35	0.00	
9100.00	2.50	359.57	9098.16	86.15	86.15	-0.65	486254.84	804136.31	0.00	
9200.00	2.50	359.57	9198.06	90.51	90.51	-0.68	486259.20	804136.28	0.00	
9300.00	2.50	359.57	9297.97	94.87	94.87	-0.71	486263.56	804136.25	0.00	
9391.40	2.50	359.57	9389.28	98.86	98.86	-0.74	486267.55	804136.22	0.00	KOP-Build @ 11° DLS
9400.00	3.45	359.57	9397.87	99.31	99.30	-0.75	486267.99	804136.21	11.00	
9500.00	14.45	359.57	9496.50	114.83	114.83	-0.86	486283.52	804136.10	11.00	
9600.00	25.45	359.57	9590.36	148.89	148.89	-1.12	486317.58	804135.84	11.00	
9700.00	36.45	359.57	9675.99	200.24	200.23	-1.50	486368.92	804135.46	11.00	
9800.00	47.45	359.57	9750.26	266.98	266.97	-2.00	486435.66	804134.96	11.00	
9900.00	58.45	359.57	9810.42	346.66	346.65	-2.60	486515.34	804134.36	11.00	
10000.00	69.45	359.57	9854.28	436.36	436.35	-3.27	486605.04	804133.69	11.00	
10100.00	80.45	359.57	9880.21	532.78	532.77	-4.00	486701.46	804132.96	11.00	
10184.79	89.77	359.57	9887.43	617.17	617.15	-4.63	486785.84	804132.33	11.00	Landing Pt

3D Plot Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
10200.00	89.77	359.57	9887.49	632.38	632.36	-4.74	486801.05	804132.22	0.00	
10300.00	89.77	359.57	9887.89	732.38	732.36	-5.49	486901.05	804131.47	0.00	
10400.00	89.77	359.57	9888.28	832.38	832.36	-6.24	487001.05	804130.72	0.00	
10500.00	89.77	359.57	9888.68	932.38	932.35	-6.99	487101.04	804129.97	0.00	
10600.00	89.77	359.57	9889.07	1032.38	1032.35	-7.74	487201.04	804129.22	0.00	
10700.00	89.77	359.57	9889.47	1132.38	1132.34	-8.49	487301.03	804128.47	0.00	
10800.00	89.77	359.57	9889.87	1232.38	1232.34	-9.24	487401.03	804127.72	0.00	
10900.00	89.77	359.57	9890.26	1332.37	1332.34	-9.99	487501.03	804126.97	0.00	
11000.00	89.77	359.57	9890.66	1432.37	1432.33	-10.74	487601.02	804126.22	0.00	
11100.00	89.77	359.57	9891.05	1532.37	1532.33	-11.49	487701.02	804125.47	0.00	
11200.00	89.77	359.57	9891.45	1632.37	1632.33	-12.24	487801.02	804124.72	0.00	
11300.00	89.77	359.57	9891.85	1732.37	1732.32	-12.99	487901.01	804123.97	0.00	
11400.00	89.77	359.57	9892.24	1832.37	1832.32	-13.74	488001.01	804123.22	0.00	
11500.00	89.77	359.57	9892.64	1932.37	1932.32	-14.49	488101.01	804122.47	0.00	
11600.00	89.77	359.57	9893.03	2032.37	2032.31	-15.24	488201.00	804121.72	0.00	
11700.00	89.77	359.57	9893.43	2132.37	2132.31	-15.99	488301.00	804120.97	0.00	
11800.00	89.77	359.57	9893.83	2232.37	2232.30	-16.74	488400.99	804120.22	0.00	
11900.00	89.77	359.57	9894.22	2332.37	2332.30	-17.49	488500.99	804119.47	0.00	
12000.00	89.77	359.57	9894.62	2432.37	2432.30	-18.24	488600.99	804118.72	0.00	
12100.00	89.77	359.57	9895.02	2532.37	2532.29	-18.99	488700.98	804117.97	0.00	
12200.00	89.77	359.57	9895.41	2632.36	2632.29	-19.74	488800.98	804117.22	0.00	
12300.00	89.77	359.57	9895.81	2732.36	2732.29	-20.49	488900.98	804116.47	0.00	
12400.00	89.77	359.57	9896.20	2832.36	2832.28	-21.24	489000.97	804115.72	0.00	
12500.00	89.77	359.57	9896.60	2932.36	2932.28	-21.99	489100.97	804114.97	0.00	
12600.00	89.77	359.57	9897.00	3032.36	3032.28	-22.74	489200.97	804114.22	0.00	
12700.00	89.77	359.57	9897.39	3132.36	3132.27	-23.49	489300.96	804113.47	0.00	
12800.00	89.77	359.57	9897.79	3232.36	3232.27	-24.24	489400.96	804112.72	0.00	
12900.00	89.77	359.57	9898.18	3332.36	3332.27	-24.99	489500.96	804111.97	0.00	
13000.00	89.77	359.57	9898.58	3432.36	3432.26	-25.74	489600.95	804111.22	0.00	
13100.00	89.77	359.57	9898.98	3532.36	3532.26	-26.49	489700.95	804110.47	0.00	
13200.00	89.77	359.57	9899.37	3632.36	3632.25	-27.24	489800.94	804109.72	0.00	
13300.00	89.77	359.57	9899.77	3732.36	3732.25	-27.99	489900.94	804108.97	0.00	
13400.00	89.77	359.57	9900.16	3832.36	3832.25	-28.74	490000.94	804108.22	0.00	
13500.00	89.77	359.57	9900.56	3932.35	3932.24	-29.49	490100.93	804107.47	0.00	
13600.00	89.77	359.57	9900.96	4032.35	4032.24	-30.24	490200.93	804106.72	0.00	
13700.00	89.77	359.57	9901.35	4132.35	4132.24	-30.99	490300.93	804105.97	0.00	
13800.00	89.77	359.57	9901.75	4232.35	4232.23	-31.74	490400.92	804105.22	0.00	
13900.00	89.77	359.57	9902.15	4332.35	4332.23	-32.49	490500.92	804104.47	0.00	
14000.00	89.77	359.57	9902.54	4432.35	4432.23	-33.24	490600.92	804103.72	0.00	
14100.00	89.77	359.57	9902.94	4532.35	4532.22	-33.99	490700.91	804102.97	0.00	
14200.00	89.77	359.57	9903.33	4632.35	4632.22	-34.74	490800.91	804102.22	0.00	
14300.00	89.77	359.57	9903.73	4732.35	4732.21	-35.49	490900.90	804101.47	0.00	
14400.00	89.77	359.57	9904.13	4832.35	4832.21	-36.23	491000.90	804100.73	0.00	
14500.00	89.77	359.57	9904.52	4932.35	4932.21	-36.98	491100.90	804099.98	0.00	
14600.00	89.77	359.57	9904.92	5032.35	5032.20	-37.73	491200.89	804099.23	0.00	
14700.00	89.77	359.57	9905.31	5132.34	5132.20	-38.48	491300.89	804098.48	0.00	
14800.00	89.77	359.57	9905.71	5232.34	5232.20	-39.23	491400.89	804097.73	0.00	
14900.00	89.77	359.57	9906.11	5332.34	5332.19	-39.98	491500.88	804096.98	0.00	
15000.00	89.77	359.57	9906.50	5432.34	5432.19	-40.73	491600.88	804096.23	0.00	
15100.00	89.77	359.57	9906.90	5532.34	5532.19	-41.48	491700.88	804095.48	0.00	
15200.00	89.77	359.57	9907.29	5632.34	5632.18	-42.23	491800.87	804094.73	0.00	
15300.00	89.77	359.57	9907.69	5732.34	5732.18	-42.98	491900.87	804093.98	0.00	
15400.00	89.77	359.57	9908.09	5832.34	5832.18	-43.73	492000.87	804093.23	0.00	
15500.00	89.77	359.57	9908.48	5932.34	5932.17	-44.48	492100.86	804092.48	0.00	
15600.00	89.77	359.57	9908.88	6032.34	6032.17	-45.23	492200.86	804091.73	0.00	
15700.00	89.77	359.57	9909.27	6132.34	6132.16	-45.98	492300.85	804090.98	0.00	
15800.00	89.77	359.57	9909.67	6232.34	6232.16	-46.73	492400.85	804090.23	0.00	
15900.00	89.77	359.57	9910.07	6332.34	6332.16	-47.48	492500.85	804089.48	0.00	
16000.00	89.77	359.57	9910.46	6432.33	6432.15	-48.23	492600.84	804088.73	0.00	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
16100.00	89.77	359.57	9910.86	6532.33	6532.15	-48.98	492700.84	804087.98	0.00	
16200.00	89.77	359.57	9911.26	6632.33	6632.15	-49.73	492800.84	804087.23	0.00	
16300.00	89.77	359.57	9911.65	6732.33	6732.14	-50.48	492900.83	804086.48	0.00	
16400.00	89.77	359.57	9912.05	6832.33	6832.14	-51.23	493000.83	804085.73	0.00	
16500.00	89.77	359.57	9912.44	6932.33	6932.14	-51.98	493100.83	804084.98	0.00	
16600.00	89.77	359.57	9912.84	7032.33	7032.13	-52.73	493200.82	804084.23	0.00	
16700.00	89.77	359.57	9913.24	7132.33	7132.13	-53.48	493300.82	804083.48	0.00	
16800.00	89.77	359.57	9913.63	7232.33	7232.13	-54.23	493400.82	804082.73	0.00	
16900.00	89.77	359.57	9914.03	7332.33	7332.12	-54.98	493500.81	804081.98	0.00	
17000.00	89.77	359.57	9914.42	7432.33	7432.12	-55.73	493600.81	804081.23	0.00	
17100.00	89.77	359.57	9914.82	7532.33	7532.11	-56.48	493700.80	804080.48	0.00	
17145.35	89.77	359.57	9915.00	7577.67	7577.46	-56.82	493746.15	804080.14	0.00	PBHL 2H

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)									
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	
1BSSL Target Base	N/A	0.00	0.00	9936.00	0.00	-0.00	486168.69	804136.96	
Rustler	2349.00	0.00	0.00	2349.00	0.00	-0.00	486168.69	804136.96	
Salado	2677.00	0.00	0.00	2677.00	0.00	-0.00	486168.69	804136.96	
Base of Salt	5129.00	0.00	0.00	5129.00	0.00	-0.00	486168.69	804136.96	
Delaware	5129.00	0.00	0.00	5129.00	0.00	-0.00	486168.69	804136.96	
Lwr Brushy	8256.04	2.50	359.57	8255.00	49.33	-0.37	486218.02	804136.59	
1st BSPG Lime	8437.21	2.50	359.57	8436.00	57.24	-0.43	486225.93	804136.53	
1st BSPG Sand	9504.65	14.96	359.57	9501.00	116.01	-0.87	486284.70	804136.09	
1BSSL	9753.06	42.28	359.57	9717.00	233.87	-1.75	486402.56	804135.21	
1BSSL Target Top	10017.04	71.32	359.57	9860.00	452.40	-3.39	486621.09	804133.57	



Devon Energy
Rio Blanco 4-33 Fed Com 2H
Lea County, NM
Plan P1:V1

Plan Data for Rio Blanco 4-33 Fed Com 2H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	-0.00	486168.69	804136.96	0.00	0.00
7000.00	0.00	0.00	7000.00	0.00	-0.00	486168.69	804136.96	0.00	0.00 Nudge @ 1° DLS
7250.00	2.50	359.57	7249.92	5.45	-0.04	486174.14	804136.92	5.45	1.00 Hold
9391.40	2.50	359.57	9389.28	98.86	-0.74	486267.55	804136.22	98.86	0.00 KOP-Build @ 11° DLS
10184.79	89.77	359.57	9887.43	617.15	-4.63	486785.84	804132.33	617.17	11.00 Landing Pt
17145.35	89.77	359.57	9915.00	7577.46	-56.82	493746.15	804080.14	7577.67	0.00 PBHL 2H



Plan Data for Rio Blanco 4-33 Fed Com 2H

Field: Lea Co, NM Nad 83 NMEZ
Map Unit: USFT Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Rio Blanco 4-33 Fed Com Pad
Unit: USFeet TVD Reference:
Company Name: Devon Energy
Position: Northing: 486169.03USft Latitude: 32.333680°
Easting: 804186.97USft Longitude: -103.482316°
North Reference: Grid Grid Convergence: 0.46°
Elevation Above VRD: 3415.80USft

Slot: Rio Blanco 4-33 Fed Com 2H
Position:
Offset is from Site centre
+N/-S: -0.34USft Northing: 486168.69USft Latitude: 32.333680°
+E/-W: -50.01USft Easting: 804136.96USft Longitude: -103.482478°
Elevation Above VRD: 3415.90USft

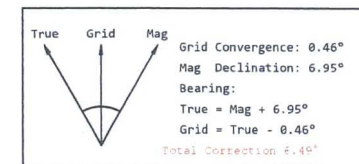
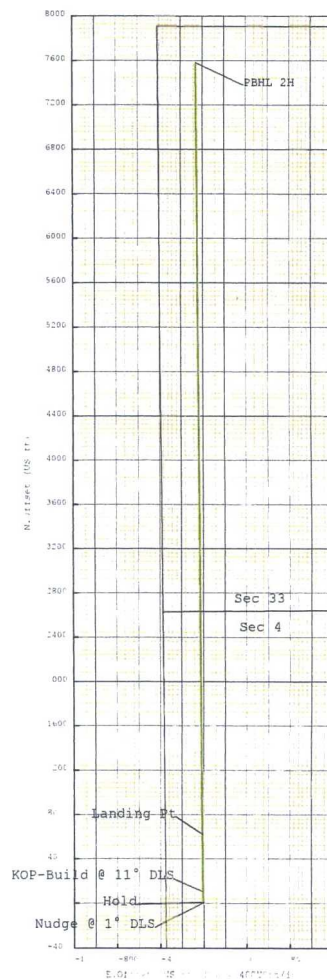
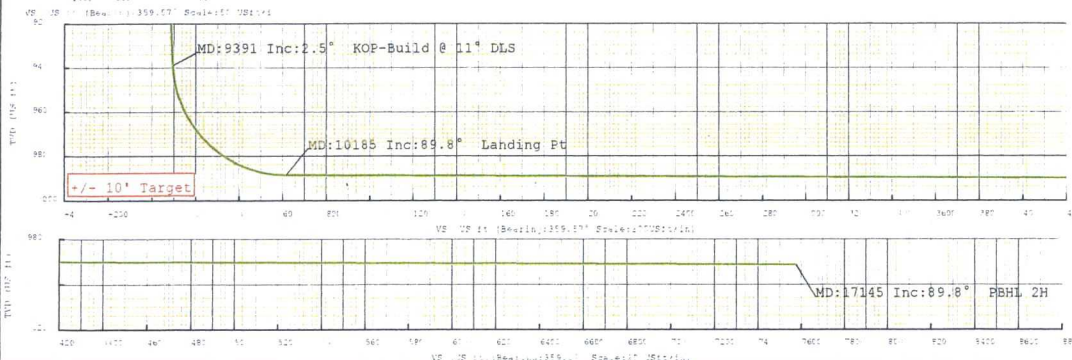
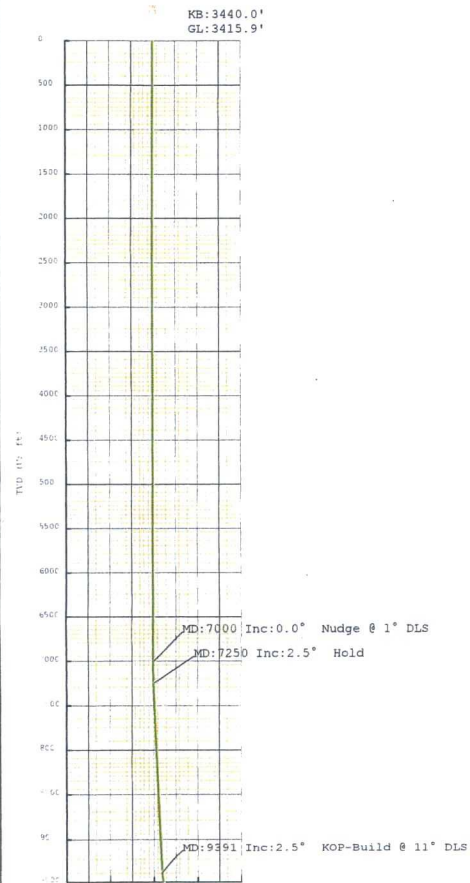
Well: Rio Blanco 4-33 Fed Com 2H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 359.57°
+E/-W: -0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 48055(nT) 6.95° 60.16° 2017-10-15

Plan Data for Rio Blanco 4-33 Fed Com 2H

Target Set Information:
Name: RB 4-33 FC 2H
Position offsets from Slot centre
Name TVD Elevation +N/-S +E/-W Northing Easting
(USft) (USft) (USft) (USft) (USft) (USft)
0 VS 9885.00 -6445.00 0.00 0.00 486168.69 804136.96
PBHL 2H 9915.00 -6475.00 7577.46 -56.82 493746.15 804080.14

Plan Data for Rio Blanco 4-33 Fed Com 2H

Formation Point Information:
Name TVD Elevation MD Dip Direction
(USft) (USft) (USft) (°) (°)
1BSSL Target Base 9926.00 0.00 -1.00 0.00 0.00
Rustler 2349.00 1091.00 2349.00 0.00 0.00
Salado 2677.00 763.00 2677.00 0.00 0.00
Base of Salt 5129.00 -1689.00 5129.00 0.00 0.00
Delaware 5129.00 -1689.00 5129.00 0.00 0.00
Lwr Brushy 8255.00 -4815.00 8256.04 0.00 0.00
1st BSPG Lime 8436.00 -4996.00 8437.21 0.00 0.00
1st BSPG Sand 9501.00 -6061.00 9504.65 0.00 0.00
1BSSL 9717.00 -6277.00 9753.06 0.00 0.00
1BSSL Target Top 9860.00 -6420.00 10017.04 0.00 0.00



Drawing By: Lee Winchell Date: 28 September 2017
Office Name: Weatherford Drilling Services-Houston
Address: 12101 Cotton Road
Houston, TX 77065
Phone: 713.896.8194