

Well Name: TOMB RAIDER 1-12 FED	Well Location: T23S / R31E / SEC 1 / LOT 1 /	County or Parish/State:
Well Number: 813H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM22080	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2753674

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 09/27/2023	Time Sundry Submitted: 12:22
Date proposed operation will begin: 09/27/2023	

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the BHL and depth on the subject well. Please see attached revised C102, drill plan (break test variance included), and directional plan. Permitted BHL: SWSE, 20 FSL, 1950 FEL, 12-23S-31E Proposed BHL: SESE, 20 FSL, 1305 FEL, 12-23S-31E Permitted TVD/MD: 12349/22512 - WC-015 G-08 S233102C; WOLFCAMP Proposed TVD/MD: 11195/21463 - LIVINGSTON RIDGE; BONE SPRING No new leases have been added since approved APD. APD ID: 10400090507

NOI Attachments

Procedure Description

- break_test_variance_BOP_20230927122047.pdf
- WA021936204_TOMB_RAIDER_1_12_FED_813H_WL_R1_20230927122048.pdf
- TOMB_RAIDER_1_12_FED_813H_20230927122047.pdf
- TOMB_RAIDER_1_12_FED_813H_Directional_Plan_09_26_23_20230927122047.pdf

Well Name: TOMB RAIDER 1-12 FED	Well Location: T23S / R31E / SEC 1 / LOT 1 /	County or Parish/State:
Well Number: 813H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM22080	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

1_23_31_1_Sundry_ID_2753674_Tomb_Raider_1_12_Fed_813H_20230929095024.pdf

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: SHAYDA OMOUMI	Signed on: SEP 27, 2023 12:22 PM
Name: DEVON ENERGY PRODUCTION COMPANY LP	
Title: Regulatory Compliance Associate 3	
Street Address: 333 W SHERIDAN AVE	
City: OKLAHOMA CITY	State: OK
Phone: (405) 235-3611	
Email address: SHAYDA.OMOUMI@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: 5752345972	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 09/29/2023
Signature: Long Vo	

District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S St Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-54277	² Pool Code 39350	³ Pool Name LIVINGSTON RIDGE, BONE SPRING
⁴ Property Code 316874	⁵ Property Name TOMB RAIDER 1-12 FED	⁶ Well Number 813H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3483.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	1	23 S	31 E		195	NORTH	1020	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	23 S	31 E		20	SOUTH	1305	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

TOMB RAIDER 1-12 FED 813H.
E.L. = 3483.0

GEODETTIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
N. = 488019.97
E. = 728827.14
LAT. = 32.3401776°N
LONG. = 103.7262576°W

KICK OFF POINT FIRST TAKE POINT (PPP 1)
CALLS 48' ENL., 1304' FEL 100' FNL, 1305' FEL
N. = 488166 N. = 488113.62
E. = 728541 E. = 728541.68
LAT. = 32.34048859 LAT. = 32.3404395°N
LONG. = -103.72726253 LONG. = 103.7271801°W

LAST TAKE POINT BOTTOM OF HOLE
100' FSL, 1305' FEL 20' FSL, 1305' FEL
N. = 477756.84 N. = 477676.86
E. = 728599.51 E. = 728599.96
LAT. = 32.3119708°N LAT. = 32.3117510°N
LONG. = 103.7271826°W LONG. = 103.7271826°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A	N. = 488219.63	E. = 729845.81
B	N. = 488207.42	E. = 727705.71
C	N. = 488195.03	E. = 724564.59
D	N. = 485554.08	E. = 724585.72
E	N. = 482913.26	E. = 724807.20
F	N. = 480274.75	E. = 724819.44
G	N. = 477636.10	E. = 724631.57
H	N. = 477650.42	E. = 727267.52
I	N. = 477663.17	E. = 729904.77
J	N. = 480302.72	E. = 729890.06
K	N. = 482941.27	E. = 729875.98
L	N. = 485580.24	E. = 729860.91
M	N. = 482926.80	E. = 727241.16

LEGEND
--- SECTION LINE
--- QUARTER LINE
--- LEASE LINE
--- WELL PATH

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Shayda Omoumi Date: 9/26/2023

Printed Name: Shayda Omoumi

E-mail Address: shayda.omoumi@dvn.com

¹⁸ SURVEYOR CERTIFICATION

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

AUGUST 30, 2023

Date of Survey: _____

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 12797

Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: TOMB RAIDER 1-12 FED	Well Number 813H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	1	48	FNL	1304	FEL	EDDY
Latitude 32.34048859					Longitude -103.72726253			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	1	100	NORTH	1305	EAST	EDDY
Latitude 32.3404395					Longitude 103.7271801			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	12	23S	31E		100	SOUTH	1305	EAST	EDDY
Latitude 32.3119708					Longitude 103.7271826			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ N

Is this well an infill well?

☐ Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-44593		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: TOMB RAIDER 1-12 FED	Well Number 234H

KZ 06/29/2018

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.

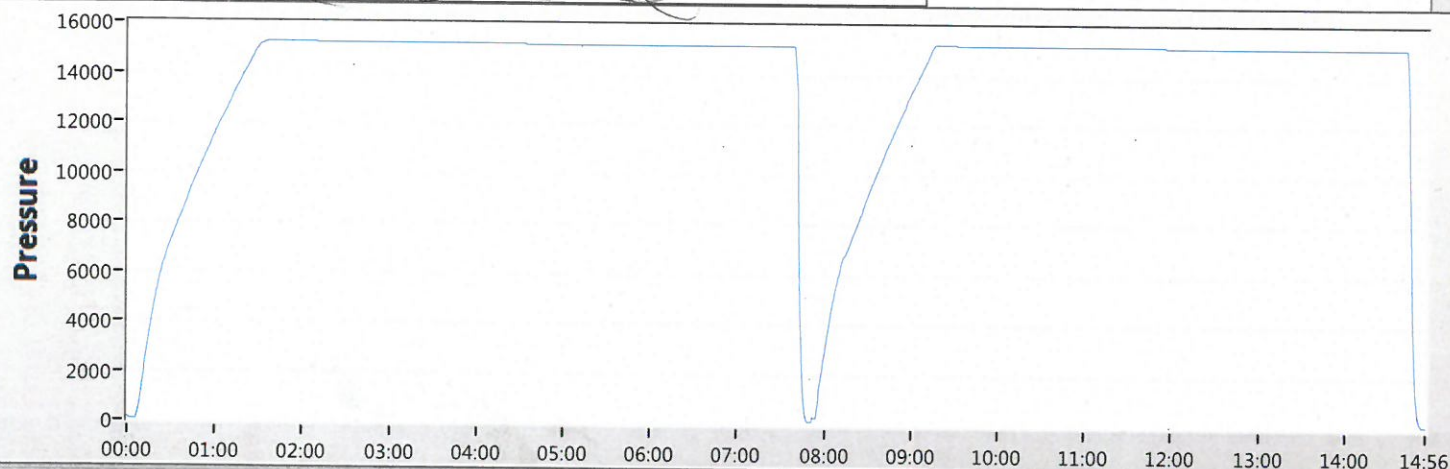
1. Well Control Response:
 1. Primary barrier remains fluid
 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid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

Cactus
Wellhead

2-9-17
E Bell

80.7 °F

15:49



50

Date 02-09-17

Tested By E.BELL

Transducer bay2

Transducer Serial 181504

Calibration Date 9/6/15

	Job#	Part#	Serial#	Description	Test Pressure
1	TRJ0006341-0007	116966	TRJ6341-7-1	ADPT,DRLG,CW,MBU-3T,13-5/8 10M	15000
2					
3					
4					
5				TRANSDUCER CALIBRATION DUE 03/13/2017	
6					
7					
8					

TRANSDUCER CALIBRATION DUE 03/13/2017

Start

Stop

Zero

Config

Save

Print

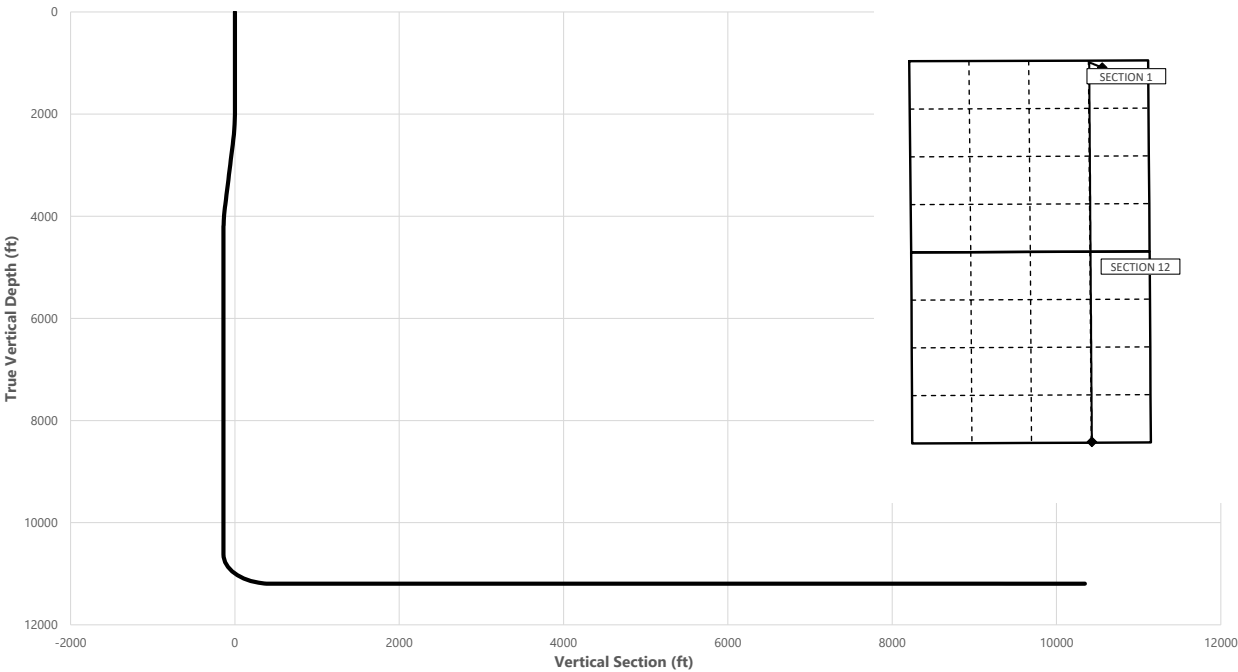
EXIT



Well: TOMB RAIDER 1-12 FED 813H
County: Eddy
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	297.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	297.00	2497.47	19.76	-38.78	-18.90	2.00	Hold Tangent
3845.66	10.00	297.00	3822.68	125.84	-246.98	-120.39	0.00	Drop to Vertical
4345.66	0.00	297.00	4320.15	145.60	-285.76	-139.29	2.00	Hold Vertical
10647.55	0.00	179.68	10622.04	145.60	-285.76	-139.29	0.00	KOP
11547.55	90.00	179.68	11195.00	-427.35	-282.56	433.45	10.00	Landing Point
21463.47	90.00	179.68	11195.00	-10343.11	-227.18	10345.60	0.00	BHL



Key Depths	MD	TVD
	(ft)	(ft)
Rustler	680.00	680.00
Salt	1140.00	1140.00
Base of Salt	4225.48	4200.00
Delaware	4490.51	4465.00
Cherry Canyon	5442.51	5417.00
Brushy Canyon	6667.51	6642.00
1st Bone Spring Lime	9455.51	9430.00
Bone Spring 1st	9497.51	9472.00
Bone Spring 2nd	10045.51	10020.00
3rd Bone Spring Lime / Point of Penetration	11471.80	11190.00
exit	21383.47	11195.01

SHL
KOP
Point of Penetration
Exit
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.3401	-103.7263	195' FNL, 1020' FEL of Sec 1 in T23S, R31E
10647.55	10622.04	32.3405	-103.7273	48' FNL, 1304' FEL of Sec 1 in T23S, R31E
11471.80	11190.00	32.3404	-103.7272	100' FNL, 1305' FEL of Sec 1 in T23S, R31E
21383.47	11195.01	32.3120	-103.7272	100' FSL, 1305' FEL of Sec 12 in T23S, R31E
21463.47	11195.00	32.3117	-103.7273	20' FSL, 1305' FEL of Sec 12 in T23S, R31E

	Y	X	MD
KOP	488166	728541	10647.55

TOMB RAIDER 1-12 FED 813H



Well: TOMB RAIDER 1-12 FED 813H
 County: Eddy
 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
100.00	0.00	297.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	297.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	297.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	297.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	297.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	297.00	600.00	0.00	0.00	0.00	0.00	
680.00	0.00	297.00	680.00	0.00	0.00	0.00	0.00	Rustler
700.00	0.00	297.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	297.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	297.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	297.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	297.00	1100.00	0.00	0.00	0.00	0.00	
1140.00	0.00	297.00	1140.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	297.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	297.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	297.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	297.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	297.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	297.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	297.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	297.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	297.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	297.00	2099.98	0.79	-1.55	-0.76	2.00	
2200.00	4.00	297.00	2199.84	3.17	-6.22	-3.03	2.00	
2300.00	6.00	297.00	2299.45	7.12	-13.98	-6.82	2.00	
2400.00	8.00	297.00	2398.70	12.66	-24.84	-12.11	2.00	
2500.00	10.00	297.00	2497.47	19.76	-38.78	-18.90	2.00	Hold Tangent
2600.00	10.00	297.00	2595.95	27.64	-54.25	-26.44	0.00	
2700.00	10.00	297.00	2694.43	35.53	-69.72	-33.99	0.00	
2800.00	10.00	297.00	2792.91	43.41	-85.20	-41.53	0.00	
2900.00	10.00	297.00	2891.39	51.29	-100.67	-49.07	0.00	
3000.00	10.00	297.00	2989.87	59.18	-116.14	-56.61	0.00	
3100.00	10.00	297.00	3088.35	67.06	-131.61	-64.15	0.00	
3200.00	10.00	297.00	3186.83	74.94	-147.08	-71.69	0.00	
3300.00	10.00	297.00	3285.31	82.83	-162.56	-79.24	0.00	
3400.00	10.00	297.00	3383.79	90.71	-178.03	-86.78	0.00	
3500.00	10.00	297.00	3482.27	98.59	-193.50	-94.32	0.00	
3600.00	10.00	297.00	3580.75	106.48	-208.97	-101.86	0.00	
3700.00	10.00	297.00	3679.23	114.36	-224.45	-109.40	0.00	
3800.00	10.00	297.00	3777.72	122.24	-239.92	-116.94	0.00	
3845.66	10.00	297.00	3822.68	125.84	-246.98	-120.39	0.00	Drop to Vertical
3900.00	8.91	297.00	3876.28	129.90	-254.94	-124.27	2.00	
4000.00	6.91	297.00	3975.33	136.15	-267.20	-130.25	2.00	
4100.00	4.91	297.00	4074.79	140.82	-276.38	-134.72	2.00	
4200.00	2.91	297.00	4174.55	143.92	-282.46	-137.68	2.00	
4225.48	2.40	297.00	4200.00	144.46	-283.51	-138.20	2.00	Base of Salt
4300.00	0.91	297.00	4274.49	145.44	-285.44	-139.13	2.00	
4345.66	0.00	297.00	4320.15	145.60	-285.76	-139.29	2.00	Hold Vertical
4400.00	0.00	179.68	4374.49	145.60	-285.76	-139.29	0.00	
4490.51	0.00	179.68	4465.00	145.60	-285.76	-139.29	0.00	Delaware
4500.00	0.00	179.68	4474.49	145.60	-285.76	-139.29	0.00	
4600.00	0.00	179.68	4574.49	145.60	-285.76	-139.29	0.00	
4700.00	0.00	179.68	4674.49	145.60	-285.76	-139.29	0.00	
4800.00	0.00	179.68	4774.49	145.60	-285.76	-139.29	0.00	
4900.00	0.00	179.68	4874.49	145.60	-285.76	-139.29	0.00	
5000.00	0.00	179.68	4974.49	145.60	-285.76	-139.29	0.00	
5100.00	0.00	179.68	5074.49	145.60	-285.76	-139.29	0.00	
5200.00	0.00	179.68	5174.49	145.60	-285.76	-139.29	0.00	
5300.00	0.00	179.68	5274.49	145.60	-285.76	-139.29	0.00	
5400.00	0.00	179.68	5374.49	145.60	-285.76	-139.29	0.00	
5442.51	0.00	179.68	5417.00	145.60	-285.76	-139.29	0.00	Cherry Canyon
5500.00	0.00	179.68	5474.49	145.60	-285.76	-139.29	0.00	
5600.00	0.00	179.68	5574.49	145.60	-285.76	-139.29	0.00	
5700.00	0.00	179.68	5674.49	145.60	-285.76	-139.29	0.00	
5800.00	0.00	179.68	5774.49	145.60	-285.76	-139.29	0.00	
5900.00	0.00	179.68	5874.49	145.60	-285.76	-139.29	0.00	
6000.00	0.00	179.68	5974.49	145.60	-285.76	-139.29	0.00	
6100.00	0.00	179.68	6074.49	145.60	-285.76	-139.29	0.00	
6200.00	0.00	179.68	6174.49	145.60	-285.76	-139.29	0.00	

TOMB RAIDER 1-12 FED 813H



Well: TOMB RAIDER 1-12 FED 813H
County: Eddy
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	179.68	6274.49	145.60	-285.76	-139.29	0.00	
6400.00	0.00	179.68	6374.49	145.60	-285.76	-139.29	0.00	
6500.00	0.00	179.68	6474.49	145.60	-285.76	-139.29	0.00	
6600.00	0.00	179.68	6574.49	145.60	-285.76	-139.29	0.00	
6667.51	0.00	179.68	6642.00	145.60	-285.76	-139.29	0.00	Brushy Canyon
6700.00	0.00	179.68	6674.49	145.60	-285.76	-139.29	0.00	
6800.00	0.00	179.68	6774.49	145.60	-285.76	-139.29	0.00	
6900.00	0.00	179.68	6874.49	145.60	-285.76	-139.29	0.00	
7000.00	0.00	179.68	6974.49	145.60	-285.76	-139.29	0.00	
7100.00	0.00	179.68	7074.49	145.60	-285.76	-139.29	0.00	
7200.00	0.00	179.68	7174.49	145.60	-285.76	-139.29	0.00	
7300.00	0.00	179.68	7274.49	145.60	-285.76	-139.29	0.00	
7400.00	0.00	179.68	7374.49	145.60	-285.76	-139.29	0.00	
7500.00	0.00	179.68	7474.49	145.60	-285.76	-139.29	0.00	
7600.00	0.00	179.68	7574.49	145.60	-285.76	-139.29	0.00	
7700.00	0.00	179.68	7674.49	145.60	-285.76	-139.29	0.00	
7800.00	0.00	179.68	7774.49	145.60	-285.76	-139.29	0.00	
7900.00	0.00	179.68	7874.49	145.60	-285.76	-139.29	0.00	
8000.00	0.00	179.68	7974.49	145.60	-285.76	-139.29	0.00	
8100.00	0.00	179.68	8074.49	145.60	-285.76	-139.29	0.00	
8200.00	0.00	179.68	8174.49	145.60	-285.76	-139.29	0.00	
8300.00	0.00	179.68	8274.49	145.60	-285.76	-139.29	0.00	
8400.00	0.00	179.68	8374.49	145.60	-285.76	-139.29	0.00	
8500.00	0.00	179.68	8474.49	145.60	-285.76	-139.29	0.00	
8600.00	0.00	179.68	8574.49	145.60	-285.76	-139.29	0.00	
8700.00	0.00	179.68	8674.49	145.60	-285.76	-139.29	0.00	
8800.00	0.00	179.68	8774.49	145.60	-285.76	-139.29	0.00	
8900.00	0.00	179.68	8874.49	145.60	-285.76	-139.29	0.00	
9000.00	0.00	179.68	8974.49	145.60	-285.76	-139.29	0.00	
9100.00	0.00	179.68	9074.49	145.60	-285.76	-139.29	0.00	
9200.00	0.00	179.68	9174.49	145.60	-285.76	-139.29	0.00	
9300.00	0.00	179.68	9274.49	145.60	-285.76	-139.29	0.00	
9400.00	0.00	179.68	9374.49	145.60	-285.76	-139.29	0.00	
9455.51	0.00	179.68	9430.00	145.60	-285.76	-139.29	0.00	1st Bone Spring Lime
9497.51	0.00	179.68	9472.00	145.60	-285.76	-139.29	0.00	Bone Spring 1st
9500.00	0.00	179.68	9474.49	145.60	-285.76	-139.29	0.00	
9600.00	0.00	179.68	9574.49	145.60	-285.76	-139.29	0.00	
9700.00	0.00	179.68	9674.49	145.60	-285.76	-139.29	0.00	
9800.00	0.00	179.68	9774.49	145.60	-285.76	-139.29	0.00	
9900.00	0.00	179.68	9874.49	145.60	-285.76	-139.29	0.00	
10000.00	0.00	179.68	9974.49	145.60	-285.76	-139.29	0.00	
10045.51	0.00	179.68	10020.00	145.60	-285.76	-139.29	0.00	Bone Spring 2nd
10100.00	0.00	179.68	10074.49	145.60	-285.76	-139.29	0.00	
10200.00	0.00	179.68	10174.49	145.60	-285.76	-139.29	0.00	
10300.00	0.00	179.68	10274.49	145.60	-285.76	-139.29	0.00	
10400.00	0.00	179.68	10374.49	145.60	-285.76	-139.29	0.00	
10500.00	0.00	179.68	10474.49	145.60	-285.76	-139.29	0.00	
10600.00	0.00	179.68	10574.49	145.60	-285.76	-139.29	0.00	
10647.55	0.00	179.68	10622.04	145.60	-285.76	-139.29	0.00	KOP
10700.00	5.24	179.68	10674.41	143.20	-285.75	-136.89	10.00	
10800.00	15.24	179.68	10772.69	125.44	-285.65	-119.14	10.00	
10900.00	25.24	179.68	10866.40	90.88	-285.46	-84.59	10.00	
11000.00	35.24	179.68	10952.68	40.58	-285.17	-34.31	10.00	
11100.00	45.24	179.68	11028.91	-23.94	-284.81	30.19	10.00	
11200.00	55.24	179.68	11092.78	-100.72	-284.38	106.94	10.00	
11300.00	65.24	179.68	11142.35	-187.43	-283.90	193.62	10.00	
11400.00	75.24	179.68	11176.11	-281.42	-283.37	287.57	10.00	
11471.80	82.42	179.68	11190.00	-351.82	-282.98	357.94	10.00	3rd Bone Spring Lime / Point of Penetration
11500.00	85.24	179.68	11193.03	-379.85	-282.82	385.97	10.00	
11547.55	90.00	179.68	11195.00	-427.35	-282.56	433.45	10.00	Landing Point
11600.00	90.00	179.68	11195.00	-479.79	-282.27	485.87	0.00	
11700.00	90.00	179.68	11195.00	-579.79	-281.71	585.84	0.00	
11800.00	90.00	179.68	11195.00	-679.79	-281.15	685.80	0.00	
11900.00	90.00	179.68	11195.00	-779.79	-280.59	785.76	0.00	
12000.00	90.00	179.68	11195.00	-879.78	-280.03	885.72	0.00	
12100.00	90.00	179.68	11195.00	-979.78	-279.47	985.68	0.00	
12200.00	90.00	179.68	11195.00	-1079.78	-278.92	1085.65	0.00	
12300.00	90.00	179.68	11195.00	-1179.78	-278.36	1185.61	0.00	
12400.00	90.00	179.68	11195.00	-1279.78	-277.80	1285.57	0.00	
12500.00	90.00	179.68	11195.00	-1379.78	-277.24	1385.53	0.00	

TOMB RAIDER 1-12 FED 813H



Well: TOMB RAIDER 1-12 FED 813H

County: Eddy

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
12600.00	90.00	179.68	11195.00	-1479.78	-276.68	1485.49	0.00	
12700.00	90.00	179.68	11195.00	-1579.77	-276.12	1585.46	0.00	
12800.00	90.00	179.68	11195.00	-1679.77	-275.56	1685.42	0.00	
12900.00	90.00	179.68	11195.00	-1779.77	-275.00	1785.38	0.00	
13000.00	90.00	179.68	11195.00	-1879.77	-274.45	1885.34	0.00	
13100.00	90.00	179.68	11195.00	-1979.77	-273.89	1985.30	0.00	
13200.00	90.00	179.68	11195.00	-2079.77	-273.33	2085.27	0.00	
13300.00	90.00	179.68	11195.00	-2179.76	-272.77	2185.23	0.00	
13400.00	90.00	179.68	11195.00	-2279.76	-272.21	2285.19	0.00	
13500.00	90.00	179.68	11195.00	-2379.76	-271.65	2385.15	0.00	
13600.00	90.00	179.68	11195.00	-2479.76	-271.09	2485.12	0.00	
13700.00	90.00	179.68	11195.00	-2579.76	-270.53	2585.08	0.00	
13800.00	90.00	179.68	11195.00	-2679.76	-269.97	2685.04	0.00	
13900.00	90.00	179.68	11195.00	-2779.76	-269.42	2785.00	0.00	
14000.00	90.00	179.68	11195.00	-2879.75	-268.86	2884.96	0.00	
14100.00	90.00	179.68	11195.00	-2979.75	-268.30	2984.93	0.00	
14200.00	90.00	179.68	11195.00	-3079.75	-267.74	3084.89	0.00	
14300.00	90.00	179.68	11195.00	-3179.75	-267.18	3184.85	0.00	
14400.00	90.00	179.68	11195.00	-3279.75	-266.62	3284.81	0.00	
14500.00	90.00	179.68	11195.00	-3379.75	-266.06	3384.77	0.00	
14600.00	90.00	179.68	11195.00	-3479.74	-265.50	3484.74	0.00	
14700.00	90.00	179.68	11195.00	-3579.74	-264.95	3584.70	0.00	
14800.00	90.00	179.68	11195.00	-3679.74	-264.39	3684.66	0.00	
14900.00	90.00	179.68	11195.00	-3779.74	-263.83	3784.62	0.00	
15000.00	90.00	179.68	11195.00	-3879.74	-263.27	3884.58	0.00	
15100.00	90.00	179.68	11195.00	-3979.74	-262.71	3984.55	0.00	
15200.00	90.00	179.68	11195.00	-4079.73	-262.15	4084.51	0.00	
15300.00	90.00	179.68	11195.00	-4179.73	-261.59	4184.47	0.00	
15400.00	90.00	179.68	11195.01	-4279.73	-261.03	4284.43	0.00	
15500.00	90.00	179.68	11195.01	-4379.73	-260.48	4384.39	0.00	
15600.00	90.00	179.68	11195.01	-4479.73	-259.92	4484.36	0.00	
15700.00	90.00	179.68	11195.01	-4579.73	-259.36	4584.32	0.00	
15800.00	90.00	179.68	11195.01	-4679.73	-258.80	4684.28	0.00	
15900.00	90.00	179.68	11195.01	-4779.72	-258.24	4784.24	0.00	
16000.00	90.00	179.68	11195.01	-4879.72	-257.68	4884.20	0.00	
16100.00	90.00	179.68	11195.01	-4979.72	-257.12	4984.17	0.00	
16200.00	90.00	179.68	11195.01	-5079.72	-256.56	5084.13	0.00	
16300.00	90.00	179.68	11195.01	-5179.72	-256.01	5184.09	0.00	
16400.00	90.00	179.68	11195.01	-5279.72	-255.45	5284.05	0.00	
16500.00	90.00	179.68	11195.01	-5379.71	-254.89	5384.01	0.00	
16600.00	90.00	179.68	11195.01	-5479.71	-254.33	5483.98	0.00	
16700.00	90.00	179.68	11195.01	-5579.71	-253.77	5583.94	0.00	
16800.00	90.00	179.68	11195.01	-5679.71	-253.21	5683.90	0.00	
16900.00	90.00	179.68	11195.01	-5779.71	-252.65	5783.86	0.00	
17000.00	90.00	179.68	11195.01	-5879.71	-252.09	5883.82	0.00	
17100.00	90.00	179.68	11195.01	-5979.71	-251.54	5983.79	0.00	
17200.00	90.00	179.68	11195.01	-6079.70	-250.98	6083.75	0.00	
17300.00	90.00	179.68	11195.01	-6179.70	-250.42	6183.71	0.00	
17400.00	90.00	179.68	11195.01	-6279.70	-249.86	6283.67	0.00	
17500.00	90.00	179.68	11195.01	-6379.70	-249.30	6383.64	0.00	
17600.00	90.00	179.68	11195.01	-6479.70	-248.74	6483.60	0.00	
17700.00	90.00	179.68	11195.01	-6579.70	-248.18	6583.56	0.00	
17800.00	90.00	179.68	11195.01	-6679.69	-247.62	6683.52	0.00	
17900.00	90.00	179.68	11195.01	-6779.69	-247.07	6783.48	0.00	
18000.00	90.00	179.68	11195.01	-6879.69	-246.51	6883.45	0.00	
18100.00	90.00	179.68	11195.01	-6979.69	-245.95	6983.41	0.00	
18200.00	90.00	179.68	11195.01	-7079.69	-245.39	7083.37	0.00	
18300.00	90.00	179.68	11195.01	-7179.69	-244.83	7183.33	0.00	
18400.00	90.00	179.68	11195.01	-7279.68	-244.27	7283.29	0.00	
18500.00	90.00	179.68	11195.01	-7379.68	-243.71	7383.26	0.00	
18600.00	90.00	179.68	11195.01	-7479.68	-243.15	7483.22	0.00	
18700.00	90.00	179.68	11195.01	-7579.68	-242.60	7583.18	0.00	
18800.00	90.00	179.68	11195.01	-7679.68	-242.04	7683.14	0.00	
18900.00	90.00	179.68	11195.01	-7779.68	-241.48	7783.10	0.00	
19000.00	90.00	179.68	11195.01	-7879.68	-240.92	7883.07	0.00	
19100.00	90.00	179.68	11195.01	-7979.67	-240.36	7983.03	0.00	
19200.00	90.00	179.68	11195.01	-8079.67	-239.80	8082.99	0.00	
19300.00	90.00	179.68	11195.01	-8179.67	-239.24	8182.95	0.00	
19400.00	90.00	179.68	11195.01	-8279.67	-238.68	8282.91	0.00	
19500.00	90.00	179.68	11195.01	-8379.67	-238.13	8382.88	0.00	

TOMB RAIDER 1-12 FED 813H



Well: TOMB RAIDER 1-12 FED 813H
County: Eddy
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)	
19600.00	90.00	179.68	11195.01	-8479.67	-237.57	8482.84	0.00	
19700.00	90.00	179.68	11195.01	-8579.66	-237.01	8582.80	0.00	
19800.00	90.00	179.68	11195.01	-8679.66	-236.45	8682.76	0.00	
19900.00	90.00	179.68	11195.01	-8779.66	-235.89	8782.72	0.00	
20000.00	90.00	179.68	11195.01	-8879.66	-235.33	8882.69	0.00	
20100.00	90.00	179.68	11195.01	-8979.66	-234.77	8982.65	0.00	
20200.00	90.00	179.68	11195.01	-9079.66	-234.21	9082.61	0.00	
20300.00	90.00	179.68	11195.01	-9179.66	-233.66	9182.57	0.00	
20400.00	90.00	179.68	11195.01	-9279.65	-233.10	9282.53	0.00	
20500.00	90.00	179.68	11195.01	-9379.65	-232.54	9382.50	0.00	
20600.00	90.00	179.68	11195.01	-9479.65	-231.98	9482.46	0.00	
20700.00	90.00	179.68	11195.01	-9579.65	-231.42	9582.42	0.00	
20800.00	90.00	179.68	11195.01	-9679.65	-230.86	9682.38	0.00	
20900.00	90.00	179.68	11195.01	-9779.65	-230.30	9782.34	0.00	
21000.00	90.00	179.68	11195.01	-9879.64	-229.74	9882.31	0.00	
21100.00	90.00	179.68	11195.01	-9979.64	-229.18	9982.27	0.00	
21200.00	90.00	179.68	11195.01	-10079.64	-228.63	10082.23	0.00	
21300.00	90.00	179.68	11195.01	-10179.64	-228.07	10182.19	0.00	
21383.47	90.00	179.68	11195.01	-10263.11	-227.60	10265.63	0.00	exit
21400.00	90.00	179.68	11195.01	-10279.64	-227.51	10282.16	0.00	
21463.47	90.00	179.68	11195.00	-10343.11	-227.18	10345.60	0.00	BHL

TOMB RAIDER 1-12 FED 813H

1. Geologic Formations

TVD of target	11195	Pilot hole depth	N/A
MD at TD:	21463	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	680		
Salt	1140		
Base of Salt	4200		
Delaware	4465		
Cherry Canyon	5417		
Brushy Canyon	6642		
1st Bone Spring Lime	9430		
Bone Spring 1st	9472		
Bone Spring 2nd	10020		
3rd Bone Spring Lime	11190		

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

TOMB RAIDER 1-12 FED 813H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	40 1/2	H40	BTC	0	705	0	705
9 7/8	8 5/8	32	P110	Sprint FJ	0	10547	0	10547
7 7/8	5 1/2	17	P110	BTC	0	21463	0	11195

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

3. Cementing Program (Primary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy canyon to surface.

Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	291	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	470	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	452	6667	13.2	1.44	Tail: Class H / C + additives
Production	117	8648	9	3.27	Lead: Class H / C + additives
	1431	10648	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

TOMB RAIDER 1-12 FED 813H

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*			
Production		13-5/8"	5M	Annular (5M)		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

TOMB RAIDER 1-12 FED 813H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	6112
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.

TOMB RAIDER 1-12 FED 813H

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 pa.
- 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

1-23-31-1 Sundry ID 2753674 Tomb Raider 1-12 Fed 813H.xlsm

Tomb Raider 1-12 Fed 813H

10 3/4	surface csg in a		13 1/2	inch hole.		Design Factors				Surface		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50		h 40	btc	13.68	3.6	0.4	825	6	0.66	6.81	33,413
"B"				btc				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,236				Tail Cmt	does not	circ to sfc.	Totals:	825				33,413
Comparison of Proposed to Minimum Required Cement Volumes												
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
13 1/2	0.3637	291	419	300	40	9.00	3433	5M				1.38
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.												
Site plot (pipe racks 3 or 4) as per D.O.D. 4-1, not found.												

8 5/8		casing inside the		10 3/4		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	vam sprint fj	2.20	0.7	1.17	10,547	1	1.96	1.17	337,504
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 403								Totals:	10,547			337,504
The cement volume(s) are intended to achieve a top of								0	ft from surface or a	825		overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	452	651	1346	-52	10.50	3643	5M				0.61
D V Tool(s):			6642				sum of sx	Σ CuFt				Σ%excess
t by stage % :			32	27			922	1732				29
Class 'C' tail cmt yld > 1.35												

Tail cmt		casing inside the		8 5/8		Design Factors				Prod 1		
5 1/2												
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00		p 110	btc	2.87	1.22	1.74	21,463	2	2.92	2.05	364,871
"B"								0				0
"C"								0				0
"D"				0				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,463								Totals:	21,463			364,871
The cement volume(s) are intended to achieve a top of								10047	ft from surface or a	500		overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
7 7/8	0.1733	1548	2443	1980	23	10.50						0.91
Class 'C' tail cmt yld > 1.35												

#N/A											
0			5 1/2		Design Factors			<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0	0		
Cmt vol calc below includes this csg, TOC intended					#N/A	ft from surface or a		#N/A	overlap.		
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 270789

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 270789
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Original COA's still apply.	10/18/2023