

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**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.

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

5. Lease Serial No. NMNM0554252

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No. THE CONTEST FED COM 131H

9. API Well No. 30-025-46673

10. Field and Pool or Exploratory Area ALTELOPE RIDGE; WOLFCAMP

11. Country or Parish, State LEA, NM

SUBMIT IN TRIPPLICATE - Other instructions on page 2

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator TAP ROCK OPERATING, LLC

3a. Address 602 PARK POINT DRIVE, STE 200
GOLDEN, CO 804013b. Phone No. (include area code)
(720) 460-33164. Location of Well (Footage, Sec., T.R.M., or Survey Description)
NWSW / 1427 FSL / 1192 FWL / SEC 9 / T24S / R34E / NMP**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 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.)

Request to change Drill, Directional, Casing, and Cement Plans. Change is requested to safely accommodate wellbore changes to three other wells drilling from this pad. Those changes require minor shifts in drill trajectory for this well, The Contest Fed Com 131H, and therefore slight changes in Drill Plan, Directional Plan, Casing Design and Cement.

SHL and BHL will remain the same.

No change to pad or infrastructure is required therefore no new disturbance will occur as a result of this change.

New Drill & Directional Plans with Casing and Cement details are attached.

Carlsbad Field Office Operator Copy

All COAs still apply

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

REGULATORY MANAGER

Title

Signature

CCe

Date

02/20/2020

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Alison Mory

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.

Title PE

Date 03/01/2020

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)

KZ



Drilling Operations Plan
The Contest Fed Com 131H
Tap Rock Operating, LLC
SHL 1427' FSL & 1192' FWL, Sec. 9
BHL 30' FNL & 338' FWL, Sec. 9
T. 24S, R. 34E, Lea County, NM

Elevation above Sea Level: 3562'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	1196	1196		Salt
Salado	1725	1731	Salt	Salt
Base Salt	5025	5118		Salt
Lamar	5293	5393	Limestone	None
Bell Canyon	5331	5432	Sandstone	Hydrocarbons
Cherry Canyon	6377	6506	Sandstone	Hydrocarbons
Brushy Canyon	7651	7813	Sandstone	Hydrocarbons
Bone Spring	8975	9156	Limestone	Hydrocarbons
1st Bone Spring	9995	10176	Sandstone	Hydrocarbons
2nd Bone Spring	10238	10419	Sandstone	Hydrocarbons
3rd Bone Spring	11022	11203	Sandstone	Hydrocarbons
KOP	11472	11653	Sandstone	Hydrocarbons
Wolfcamp	11869	12091	Shale	Hydrocarbons
TD	12239	17228	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp A is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

A 15,000', 10,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

BOP Test procedure will be as follows:

After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP



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will be tested in this manner after nipple-up if any break of the stack occurs. Before drilling out from 7.625" casing shoe, the BOP pressure tests will be made with a third party tester to 250 psi low, 10,000 psi high, and the annular preventer will be tested to 5,000 psi. The BOP will be tested in this manner if passage of allotted time occurs.

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing. Tap Rock requests a variance to use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 5000 psi high.

Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.



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4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	1260	0	1260	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	5413	0	5313	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	5113	0	5013	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	5113	11553	5013	11372	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	11353	0	11172	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	11353	17228	11172	12239	P-110	18	W-521	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives				
									5% NCI + LCM	Bentonite + 1% CaCl2 + 8% NaCl + LCM	5% NaCl + LCM	Fluid Loss + Dispersant + Retarder + LCM	Fluid Loss + Dispersant + Retarder + LCM
Surface	Tail	0	1297	1.35	1750	14.8	100%	C	5% NCI + LCM				
	Lead	0	1026	2.18	2238	12.7	65%	C	Bentonite + 1% CaCl2 + 8% NaCl + LCM				
1st Intermediate	Tail	4330	421	1.33	559	14.8	65%	C	5% NaCl + LCM				
	Lead	5113	332	2.22	738	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM				
2nd Intermediate	Tail	10553	99	1.37	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM				
Production	Tail	11353	692	1.19	824	15.8	25%	H	Fluid Loss + Dispersant + Retarder + LCM				

5. Mud Program

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1260	FW Spud Mud	8.30	28	NC
Intermediate	1260	5413	Brine Water	10.00	30-32	NC
Intermediate 2	5413	11553	FW/Cut Brine	9.00	30-32	NC
Production	11553	17228	Oil Base Mud	11.00	50-70	<10

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e.g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.



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7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈7,001 psi. Expected bottom hole temperature is ≈170° F.

Tap Rock does not anticipate that there will be enough H₂S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H₂S safety package on all wells and an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

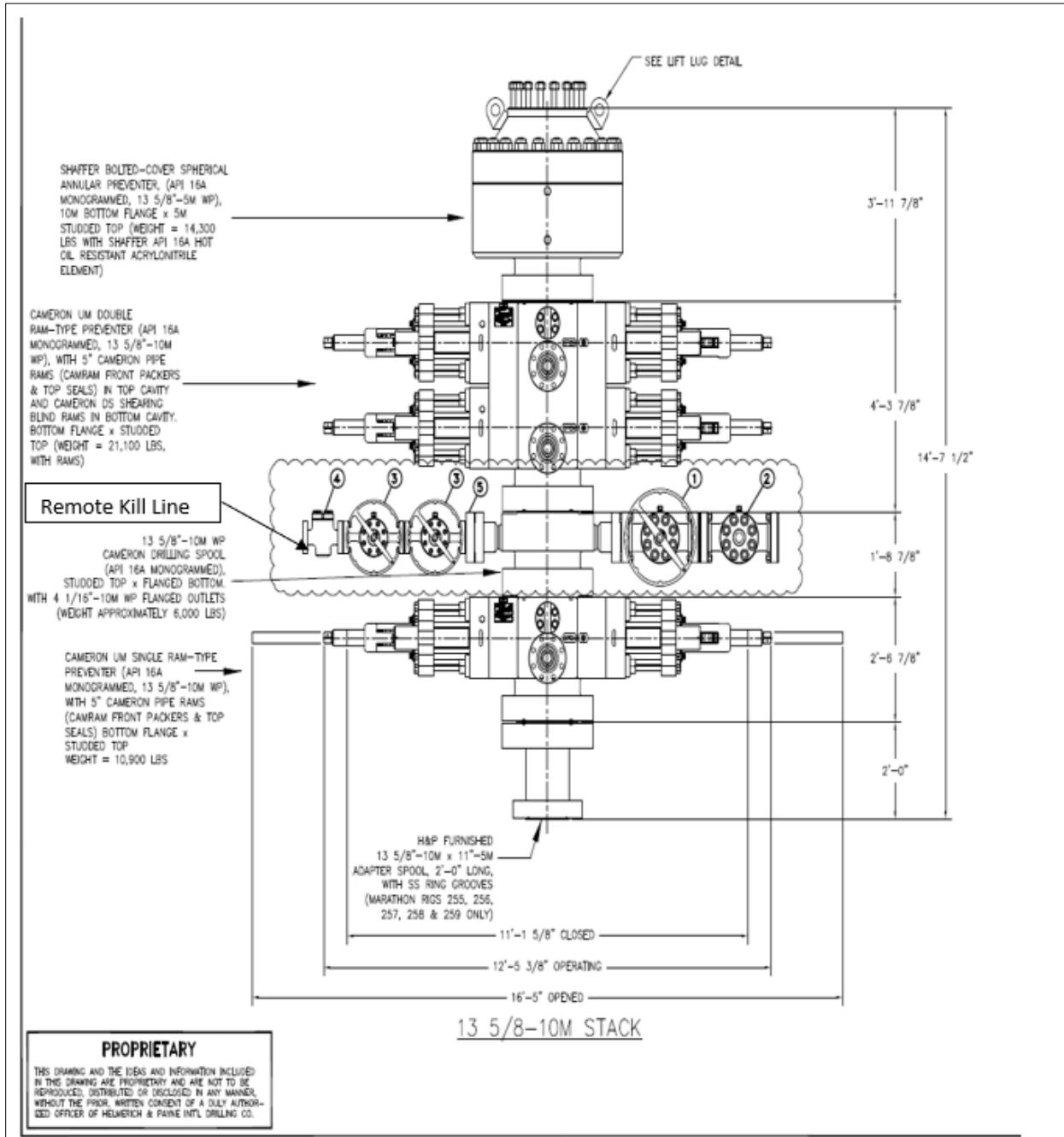
8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



Drilling Operations Plan
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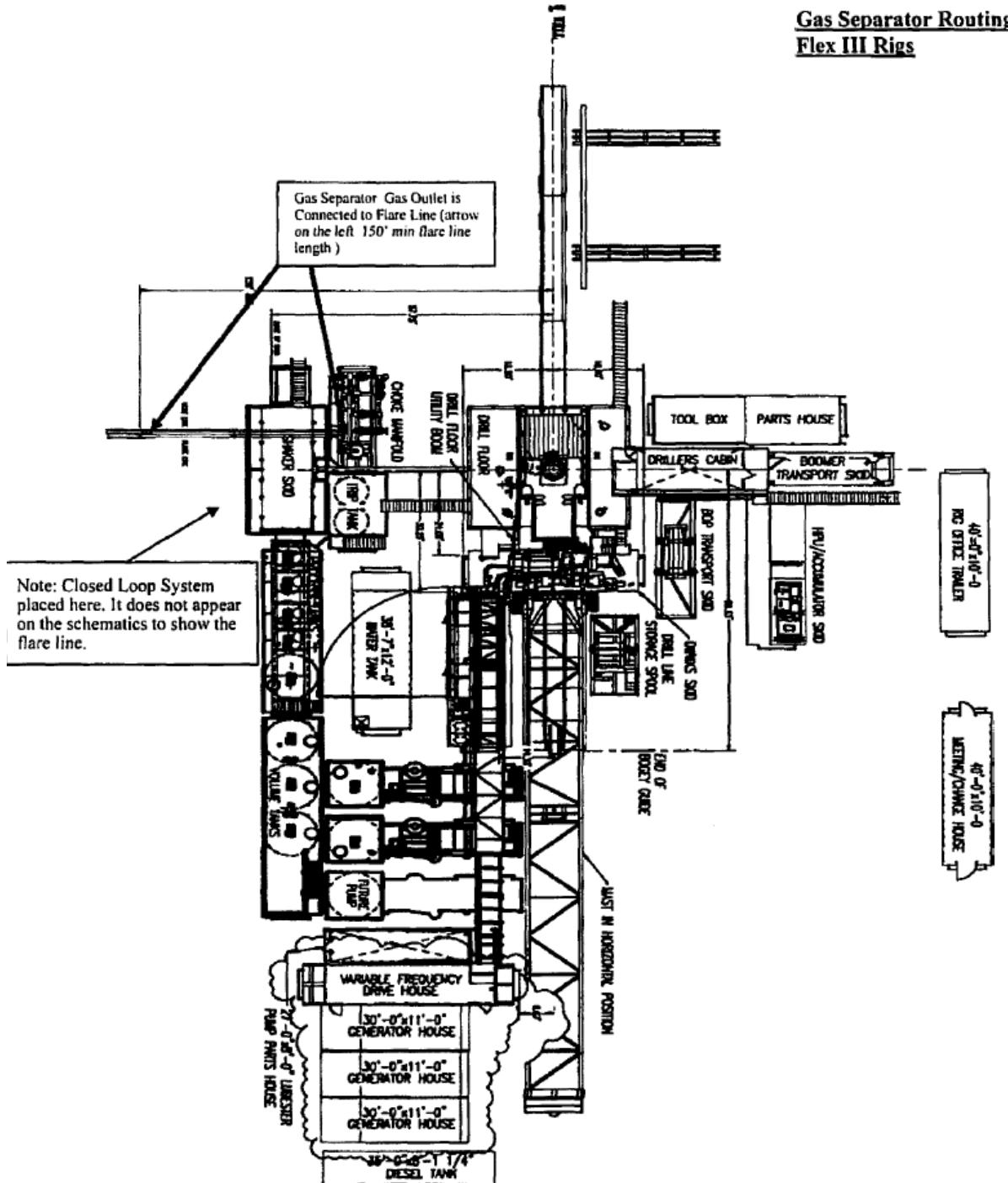
10,000 psi BOP Stack





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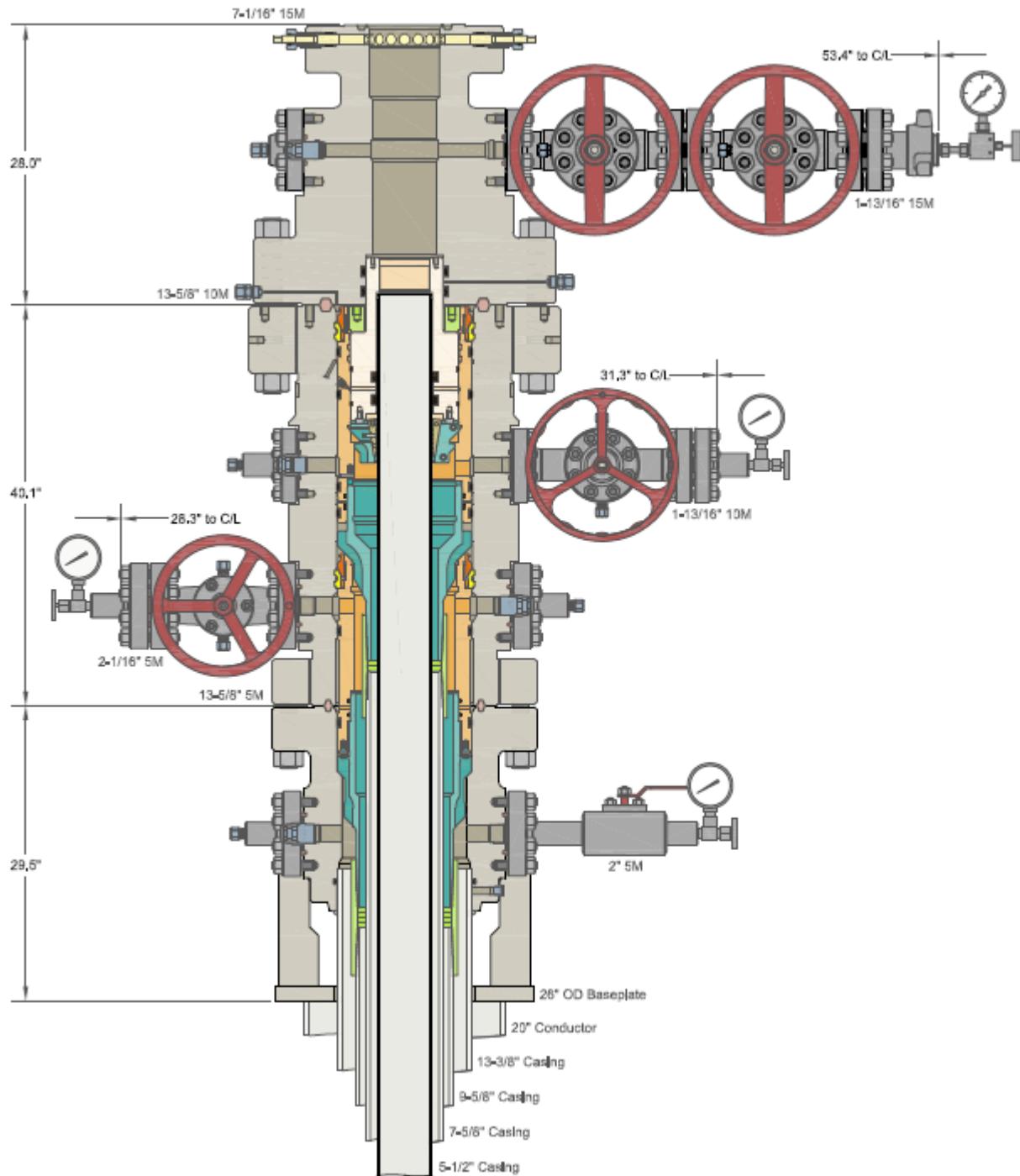
Gas Separator Routing
Flex III Rigs





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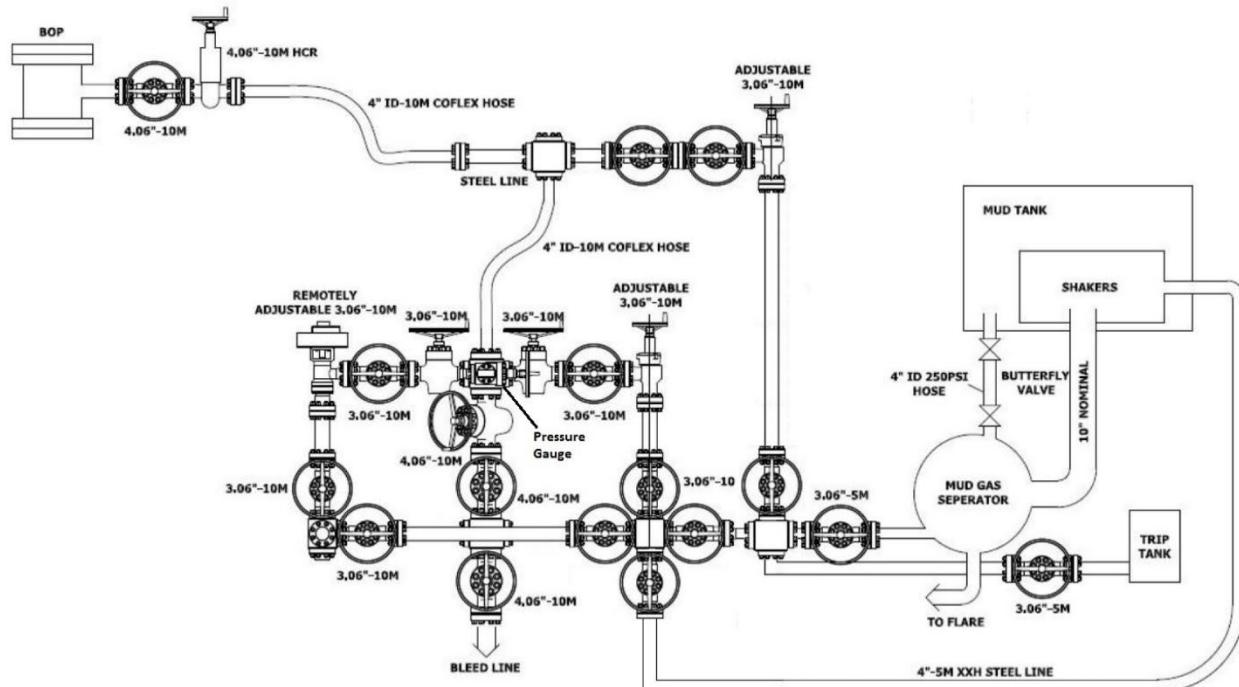
Multi-bowl Wellhead





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10M Choke Layout





Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Contest Fed) Sec-9_T-24-S_R-34-E
The Contest Fed Com #131H

OWB

Plan: Plan #3

Standard Planning Report

11 March, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft (H&P 245)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Contest Fed) Sec-9_T-24-S_R-34-E				
Site Position:		Northing:	447,954.00 usft	Latitude:	32° 13' 43.026 N
From:	Map	Easting:	805,330.00 usft	Longitude:	103° 28' 46.561 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	The Contest Fed Com #131H				
Well Position	+N/S +E/W	35.0 usft 0.0 usft	Northing: Easting:	447,989.00 usft 805,330.00 usft	Latitude: Longitude:
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:
					3,563.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2019/04/24	6.71	60.06	47,758.96352085

Design	Plan #3				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)
		0.0	0.0	0.0	359.57

Plan Survey Tool Program	Date	2020/03/11		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,169.5 Plan #3 (OWB)	MWD OWSG MWD - Standard	

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Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00
1,916.7	10.00	211.91	1,913.3	-49.3	-30.7	1.50	1.50	0.00	211.91	
5,300.0	10.00	211.91	5,245.2	-548.0	-341.2	0.00	0.00	0.00	0.00	0.00
5,534.8	14.70	211.92	5,474.6	-590.6	-367.8	2.00	2.00	0.00	0.02	
8,738.3	14.70	211.92	8,573.2	-1,280.4	-797.4	0.00	0.00	0.00	0.00	
9,473.1	0.00	0.00	9,300.0	-1,360.0	-847.0	2.00	-2.00	0.00	180.00	
11,651.1	0.00	0.00	11,478.0	-1,360.0	-847.0	0.00	0.00	0.00	0.00	
12,579.1	92.80	359.57	12,050.3	-759.0	-851.5	10.00	10.00	-0.05	359.57	
15,835.7	92.80	359.57	11,891.0	2,493.5	-876.0	0.00	0.00	0.00	0.00	T1 (The Contest Fe
15,851.3	92.49	359.57	11,890.3	2,509.1	-876.1	2.00	-2.00	0.00	180.00	
17,169.5	92.49	359.57	11,833.0	3,826.0	-886.0	0.00	0.00	0.00	0.00	PBHL (The Contest

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Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,196.0	0.00	0.00	1,196.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
NUUDGE - Build 1.50									
1,300.0	0.75	211.91	1,300.0	-0.3	-0.2	-0.3	1.50	1.50	0.00
1,400.0	2.25	211.91	1,400.0	-2.5	-1.6	-2.5	1.50	1.50	0.00
1,500.0	3.75	211.91	1,499.8	-6.9	-4.3	-6.9	1.50	1.50	0.00
1,600.0	5.25	211.91	1,599.5	-13.6	-8.5	-13.5	1.50	1.50	0.00
1,700.0	6.75	211.91	1,699.0	-22.5	-14.0	-22.4	1.50	1.50	0.00
1,726.2	7.14	211.91	1,725.0	-25.2	-15.7	-25.1	1.50	1.50	0.00
Top Salt									
1,800.0	8.25	211.91	1,798.1	-33.6	-20.9	-33.4	1.50	1.50	0.00
1,900.0	9.75	211.91	1,896.9	-46.8	-29.2	-46.6	1.50	1.50	0.00
1,916.7	10.00	211.91	1,913.3	-49.3	-30.7	-49.0	1.50	1.50	0.00
HOLD - 3383.3 at 1916.7 MD									
2,000.0	10.00	211.91	1,995.4	-61.5	-38.3	-61.3	0.00	0.00	0.00
2,100.0	10.00	211.91	2,093.8	-76.3	-47.5	-75.9	0.00	0.00	0.00
2,200.0	10.00	211.91	2,192.3	-91.0	-56.7	-90.6	0.00	0.00	0.00
2,300.0	10.00	211.91	2,290.8	-105.8	-65.9	-105.3	0.00	0.00	0.00
2,400.0	10.00	211.91	2,389.3	-120.5	-75.0	-119.9	0.00	0.00	0.00
2,500.0	10.00	211.91	2,487.8	-135.2	-84.2	-134.6	0.00	0.00	0.00
2,600.0	10.00	211.91	2,586.2	-150.0	-93.4	-149.3	0.00	0.00	0.00
2,700.0	10.00	211.91	2,684.7	-164.7	-102.6	-164.0	0.00	0.00	0.00
2,800.0	10.00	211.91	2,783.2	-179.5	-111.8	-178.6	0.00	0.00	0.00
2,900.0	10.00	211.91	2,881.7	-194.2	-120.9	-193.3	0.00	0.00	0.00
3,000.0	10.00	211.91	2,980.2	-209.0	-130.1	-208.0	0.00	0.00	0.00
3,100.0	10.00	211.91	3,078.6	-223.7	-139.3	-222.6	0.00	0.00	0.00
3,200.0	10.00	211.91	3,177.1	-238.4	-148.5	-237.3	0.00	0.00	0.00
3,300.0	10.00	211.91	3,275.6	-253.2	-157.6	-252.0	0.00	0.00	0.00
3,400.0	10.00	211.91	3,374.1	-267.9	-166.8	-266.7	0.00	0.00	0.00
3,500.0	10.00	211.91	3,472.6	-282.7	-176.0	-281.3	0.00	0.00	0.00
3,600.0	10.00	211.91	3,571.0	-297.4	-185.2	-296.0	0.00	0.00	0.00
3,700.0	10.00	211.91	3,669.5	-312.1	-194.4	-310.7	0.00	0.00	0.00
3,800.0	10.00	211.91	3,768.0	-326.9	-203.5	-325.3	0.00	0.00	0.00
3,900.0	10.00	211.91	3,866.5	-341.6	-212.7	-340.0	0.00	0.00	0.00
4,000.0	10.00	211.91	3,965.0	-356.4	-221.9	-354.7	0.00	0.00	0.00
4,100.0	10.00	211.91	4,063.5	-371.1	-231.1	-369.4	0.00	0.00	0.00
4,200.0	10.00	211.91	4,161.9	-385.8	-240.3	-384.0	0.00	0.00	0.00
4,300.0	10.00	211.91	4,260.4	-400.6	-249.4	-398.7	0.00	0.00	0.00
4,400.0	10.00	211.91	4,358.9	-415.3	-258.6	-413.4	0.00	0.00	0.00
4,500.0	10.00	211.91	4,457.4	-430.1	-267.8	-428.0	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft (H&P 245)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	10.00	211.91	4,555.9	-444.8	-277.0	-442.7	0.00	0.00	0.00
4,700.0	10.00	211.91	4,654.3	-459.5	-286.2	-457.4	0.00	0.00	0.00
4,800.0	10.00	211.91	4,752.8	-474.3	-295.3	-472.1	0.00	0.00	0.00
4,900.0	10.00	211.91	4,851.3	-489.0	-304.5	-486.7	0.00	0.00	0.00
5,000.0	10.00	211.91	4,949.8	-503.8	-313.7	-501.4	0.00	0.00	0.00
5,076.4	10.00	211.91	5,025.0	-515.0	-320.7	-512.6	0.00	0.00	0.00
Base Salt									
5,100.0	10.00	211.91	5,048.3	-518.5	-322.9	-516.1	0.00	0.00	0.00
5,200.0	10.00	211.91	5,146.7	-533.2	-332.0	-530.7	0.00	0.00	0.00
5,300.0	10.00	211.91	5,245.2	-548.0	-341.2	-545.4	0.00	0.00	0.00
BLD - DLS 2.00 TFO 0.02									
5,348.6	10.97	211.91	5,293.0	-555.5	-345.9	-552.9	2.00	2.00	0.00
Lamar									
5,350.6	11.01	211.91	5,295.0	-555.8	-346.1	-553.2	2.00	2.00	0.00
Delaware Mountain Gp									
5,387.4	11.75	211.91	5,331.0	-562.0	-349.9	-559.3	2.00	2.00	0.00
Bell Canyon									
5,389.4	11.79	211.91	5,333.0	-562.3	-350.2	-559.7	2.00	2.00	0.00
Ramsey Sand									
5,400.0	12.00	211.91	5,343.4	-564.2	-351.3	-561.5	2.00	2.00	0.00
5,500.0	14.00	211.92	5,440.8	-583.3	-363.2	-580.5	2.00	2.00	0.00
5,534.8	14.70	211.92	5,474.6	-590.6	-367.8	-587.8	2.00	2.00	0.00
HOLD - 3203.5 at 5534.8 MD									
5,600.0	14.70	211.92	5,537.6	-604.6	-376.5	-601.8	0.00	0.00	0.00
5,700.0	14.70	211.92	5,634.3	-626.2	-389.9	-623.2	0.00	0.00	0.00
5,800.0	14.70	211.92	5,731.0	-647.7	-403.3	-644.7	0.00	0.00	0.00
5,900.0	14.70	211.92	5,827.8	-669.2	-416.7	-666.1	0.00	0.00	0.00
6,000.0	14.70	211.92	5,924.5	-690.8	-430.2	-687.5	0.00	0.00	0.00
6,100.0	14.70	211.92	6,021.2	-712.3	-443.6	-709.0	0.00	0.00	0.00
6,200.0	14.70	211.92	6,118.0	-733.8	-457.0	-730.4	0.00	0.00	0.00
6,300.0	14.70	211.92	6,214.7	-755.4	-470.4	-751.8	0.00	0.00	0.00
6,400.0	14.70	211.92	6,311.4	-776.9	-483.8	-773.3	0.00	0.00	0.00
6,467.8	14.70	211.92	6,377.0	-791.5	-492.9	-787.8	0.00	0.00	0.00
Cherry Canyon									
6,500.0	14.70	211.92	6,408.1	-798.4	-497.2	-794.7	0.00	0.00	0.00
6,600.0	14.70	211.92	6,504.9	-820.0	-510.6	-816.1	0.00	0.00	0.00
6,700.0	14.70	211.92	6,601.6	-841.5	-524.0	-837.6	0.00	0.00	0.00
6,800.0	14.70	211.92	6,698.3	-863.0	-537.5	-859.0	0.00	0.00	0.00
6,900.0	14.70	211.92	6,795.1	-884.6	-550.9	-880.4	0.00	0.00	0.00
7,000.0	14.70	211.92	6,891.8	-906.1	-564.3	-901.9	0.00	0.00	0.00
7,100.0	14.70	211.92	6,988.5	-927.6	-577.7	-923.3	0.00	0.00	0.00
7,200.0	14.70	211.92	7,085.2	-949.2	-591.1	-944.7	0.00	0.00	0.00
7,300.0	14.70	211.92	7,182.0	-970.7	-604.5	-966.2	0.00	0.00	0.00
7,400.0	14.70	211.92	7,278.7	-992.3	-617.9	-987.6	0.00	0.00	0.00
7,500.0	14.70	211.92	7,375.4	-1,013.8	-631.4	-1,009.0	0.00	0.00	0.00
7,600.0	14.70	211.92	7,472.2	-1,035.3	-644.8	-1,030.5	0.00	0.00	0.00
7,700.0	14.70	211.92	7,568.9	-1,056.9	-658.2	-1,051.9	0.00	0.00	0.00
7,784.9	14.70	211.92	7,651.0	-1,075.1	-669.6	-1,070.1	0.00	0.00	0.00
Brushy Canyon									
7,800.0	14.70	211.92	7,665.6	-1,078.4	-671.6	-1,073.3	0.00	0.00	0.00
7,900.0	14.70	211.92	7,762.3	-1,099.9	-685.0	-1,094.8	0.00	0.00	0.00
8,000.0	14.70	211.92	7,859.1	-1,121.5	-698.4	-1,116.2	0.00	0.00	0.00
8,100.0	14.70	211.92	7,955.8	-1,143.0	-711.8	-1,137.6	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft (H&P 245)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,200.0	14.70	211.92	8,052.5	-1,164.5	-725.2	-1,159.1	0.00	0.00	0.00
8,300.0	14.70	211.92	8,149.3	-1,186.1	-738.7	-1,180.5	0.00	0.00	0.00
8,400.0	14.70	211.92	8,246.0	-1,207.6	-752.1	-1,201.9	0.00	0.00	0.00
8,500.0	14.70	211.92	8,342.7	-1,229.1	-765.5	-1,223.4	0.00	0.00	0.00
8,600.0	14.70	211.92	8,439.4	-1,250.7	-778.9	-1,244.8	0.00	0.00	0.00
8,700.0	14.70	211.92	8,536.2	-1,272.2	-792.3	-1,266.2	0.00	0.00	0.00
8,738.3	14.70	211.92	8,573.2	-1,280.4	-797.4	-1,274.4	0.00	0.00	0.00
DROP - 2.00									
8,800.0	13.46	211.92	8,633.1	-1,293.2	-805.4	-1,287.1	2.00	-2.00	0.00
8,900.0	11.46	211.92	8,730.7	-1,311.5	-816.8	-1,305.3	2.00	-2.00	0.00
9,000.0	9.46	211.92	8,829.0	-1,326.9	-826.4	-1,320.7	2.00	-2.00	0.00
9,100.0	7.46	211.92	8,927.9	-1,339.4	-834.2	-1,333.1	2.00	-2.00	0.00
9,147.4	6.51	211.92	8,975.0	-1,344.3	-837.2	-1,338.0	2.00	-2.00	0.00
Bone Spring Lime									
9,200.0	5.46	211.92	9,027.3	-1,349.0	-840.1	-1,342.6	2.00	-2.00	0.00
9,215.8	5.15	211.92	9,043.0	-1,350.2	-840.9	-1,343.8	2.00	-2.00	0.00
Upper Avalon									
9,300.0	3.46	211.92	9,127.0	-1,355.6	-844.2	-1,349.2	2.00	-2.00	0.00
9,400.0	1.46	211.92	9,226.9	-1,359.2	-846.5	-1,352.8	2.00	-2.00	0.00
9,473.1	0.00	0.00	9,300.0	-1,360.0	-847.0	-1,353.6	2.00	-2.00	0.00
HOLD - 2178.0 at 9473.1 MD									
9,500.0	0.00	0.00	9,326.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
9,507.1	0.00	0.00	9,334.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
Middle Avalon									
9,600.0	0.00	0.00	9,426.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,526.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,626.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
9,842.1	0.00	0.00	9,669.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
Lower Avalon									
9,900.0	0.00	0.00	9,726.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,826.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,100.0	0.00	0.00	9,926.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,168.1	0.00	0.00	9,995.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
1st Bone Spring Sand									
10,200.0	0.00	0.00	10,026.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,126.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,226.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,411.1	0.00	0.00	10,238.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
2nd Bone Spring Carb									
10,500.0	0.00	0.00	10,326.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,426.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,695.1	0.00	0.00	10,522.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
2nd Bone Spring Sand									
10,700.0	0.00	0.00	10,526.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,626.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,726.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,826.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,926.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,195.1	0.00	0.00	11,022.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
3rd Bone Spring Carb									
11,200.0	0.00	0.00	11,026.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,126.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft (H&P 245)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,400.0	0.00	0.00	11,226.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,326.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,426.9	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
11,651.1	0.00	0.00	11,478.0	-1,360.0	-847.0	-1,353.6	0.00	0.00	0.00
KOP - DLS 10.00 TFO 359.57									
11,700.0	4.89	359.57	11,526.8	-1,357.9	-847.0	-1,351.5	10.00	10.00	0.00
11,739.5	8.83	359.57	11,566.0	-1,353.2	-847.1	-1,346.8	10.00	10.00	0.00
3rd Bone Spring Sand									
11,750.0	9.89	359.57	11,576.4	-1,351.5	-847.1	-1,345.1	10.00	10.00	0.00
11,800.0	14.89	359.57	11,625.2	-1,340.8	-847.1	-1,334.4	10.00	10.00	0.00
11,850.0	19.89	359.57	11,672.9	-1,325.8	-847.3	-1,319.4	10.00	10.00	0.00
11,900.0	24.89	359.57	11,719.1	-1,306.8	-847.4	-1,300.4	10.00	10.00	0.00
11,950.0	29.89	359.57	11,763.5	-1,283.8	-847.6	-1,277.4	10.00	10.00	0.00
11,994.3	34.31	359.57	11,801.0	-1,260.3	-847.7	-1,253.9	10.00	10.00	0.00
3rd BS W Sand									
12,000.0	34.89	359.57	11,805.7	-1,257.0	-847.8	-1,250.6	10.00	10.00	0.00
12,050.0	39.89	359.57	11,845.4	-1,226.7	-848.0	-1,220.3	10.00	10.00	0.00
12,081.4	43.03	359.57	11,869.0	-1,205.9	-848.2	-1,199.5	10.00	10.00	0.00
Wolfcamp A X Sand									
12,100.0	44.89	359.57	11,882.4	-1,193.0	-848.3	-1,186.6	10.00	10.00	0.00
12,150.0	49.89	359.57	11,916.2	-1,156.2	-848.5	-1,149.8	10.00	10.00	0.00
12,200.0	54.89	359.57	11,946.7	-1,116.6	-848.8	-1,110.2	10.00	10.00	0.00
12,216.5	56.54	359.57	11,956.0	-1,103.0	-848.9	-1,096.6	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,250.0	59.89	359.57	11,973.6	-1,074.5	-849.1	-1,068.1	10.00	10.00	0.00
12,300.0	64.89	359.57	11,996.8	-1,030.2	-849.5	-1,023.8	10.00	10.00	0.00
12,350.0	69.89	359.57	12,016.0	-984.1	-849.8	-977.7	10.00	10.00	0.00
12,368.2	71.71	359.57	12,022.0	-966.9	-850.0	-960.5	10.00	10.00	0.00
Wolfcamp A Lower									
12,400.0	74.89	359.57	12,031.1	-936.4	-850.2	-930.0	10.00	10.00	0.00
12,450.0	79.89	359.57	12,042.1	-887.6	-850.6	-881.2	10.00	10.00	0.00
12,500.0	84.89	359.57	12,048.7	-838.1	-850.9	-831.7	10.00	10.00	0.00
12,550.0	89.89	359.57	12,051.0	-788.2	-851.3	-781.8	10.00	10.00	0.00
12,579.1	92.80	359.57	12,050.3	-759.0	-851.5	-752.6	10.00	10.00	0.00
EOC - 3256.5 hold at 12579.1 MD									
12,600.0	92.80	359.57	12,049.3	-738.2	-851.7	-731.8	0.00	0.00	0.00
12,700.0	92.80	359.57	12,044.4	-638.3	-852.4	-631.9	0.00	0.00	0.00
12,800.0	92.80	359.57	12,039.5	-538.5	-853.2	-532.0	0.00	0.00	0.00
12,900.0	92.80	359.57	12,034.6	-438.6	-853.9	-432.2	0.00	0.00	0.00
13,000.0	92.80	359.57	12,029.7	-338.7	-854.7	-332.3	0.00	0.00	0.00
13,100.0	92.80	359.57	12,024.8	-238.8	-855.4	-232.4	0.00	0.00	0.00
13,200.0	92.80	359.57	12,019.9	-138.9	-856.2	-132.5	0.00	0.00	0.00
13,300.0	92.80	359.57	12,015.0	-39.1	-856.9	-32.6	0.00	0.00	0.00
13,400.0	92.80	359.57	12,010.1	60.8	-857.7	67.2	0.00	0.00	0.00
13,500.0	92.80	359.57	12,005.2	160.7	-858.4	167.1	0.00	0.00	0.00
13,600.0	92.80	359.57	12,000.3	260.6	-859.2	267.0	0.00	0.00	0.00
13,700.0	92.80	359.57	11,995.5	360.4	-859.9	366.9	0.00	0.00	0.00
13,800.0	92.80	359.57	11,990.6	460.3	-860.7	466.8	0.00	0.00	0.00
13,900.0	92.80	359.57	11,985.7	560.2	-861.4	566.6	0.00	0.00	0.00
14,000.0	92.80	359.57	11,980.8	660.1	-862.2	666.5	0.00	0.00	0.00
14,100.0	92.80	359.57	11,975.9	760.0	-862.9	766.4	0.00	0.00	0.00
14,200.0	92.80	359.57	11,971.0	859.8	-863.7	866.3	0.00	0.00	0.00
14,300.0	92.80	359.57	11,966.1	959.7	-864.4	966.2	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well The Contest Fed Com #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft (H&P 245)
Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,400.0	92.80	359.57	11,961.2	1,059.6	-865.2	1,066.0	0.00	0.00	0.00
14,500.0	92.80	359.57	11,956.3	1,159.5	-865.9	1,165.9	0.00	0.00	0.00
14,600.0	92.80	359.57	11,951.4	1,259.3	-866.7	1,265.8	0.00	0.00	0.00
14,700.0	92.80	359.57	11,946.5	1,359.2	-867.4	1,365.7	0.00	0.00	0.00
14,800.0	92.80	359.57	11,941.7	1,459.1	-868.2	1,465.6	0.00	0.00	0.00
14,900.0	92.80	359.57	11,936.8	1,559.0	-869.0	1,565.4	0.00	0.00	0.00
15,000.0	92.80	359.57	11,931.9	1,658.8	-869.7	1,665.3	0.00	0.00	0.00
15,100.0	92.80	359.57	11,927.0	1,758.7	-870.5	1,765.2	0.00	0.00	0.00
15,200.0	92.80	359.57	11,922.1	1,858.6	-871.2	1,865.1	0.00	0.00	0.00
15,300.0	92.80	359.57	11,917.2	1,958.5	-872.0	1,965.0	0.00	0.00	0.00
15,400.0	92.80	359.57	11,912.3	2,058.4	-872.7	2,064.8	0.00	0.00	0.00
15,500.0	92.80	359.57	11,907.4	2,158.2	-873.5	2,164.7	0.00	0.00	0.00
15,600.0	92.80	359.57	11,902.5	2,258.1	-874.2	2,264.6	0.00	0.00	0.00
15,700.0	92.80	359.57	11,897.6	2,358.0	-875.0	2,364.5	0.00	0.00	0.00
15,800.0	92.80	359.57	11,892.7	2,457.9	-875.7	2,464.4	0.00	0.00	0.00
15,835.7	92.80	359.57	11,891.0	2,493.5	-876.0	2,500.0	0.00	0.00	0.00
Start DLS 2.00 TFO 180.00									
15,851.3	92.49	359.57	11,890.3	2,509.1	-876.1	2,515.6	2.00	-2.00	0.00
Start 1318.2 hold at 15851.3 MD									
15,900.0	92.49	359.57	11,888.2	2,557.8	-876.5	2,564.3	0.00	0.00	0.00
16,000.0	92.49	359.57	11,883.8	2,657.7	-877.2	2,664.2	0.00	0.00	0.00
16,100.0	92.49	359.57	11,879.5	2,757.6	-878.0	2,764.1	0.00	0.00	0.00
16,200.0	92.49	359.57	11,875.1	2,857.5	-878.7	2,864.0	0.00	0.00	0.00
16,300.0	92.49	359.57	11,870.8	2,957.4	-879.5	2,963.9	0.00	0.00	0.00
16,400.0	92.49	359.57	11,866.4	3,057.3	-880.2	3,063.8	0.00	0.00	0.00
16,500.0	92.49	359.57	11,862.1	3,157.2	-881.0	3,163.7	0.00	0.00	0.00
16,600.0	92.49	359.57	11,857.7	3,257.1	-881.7	3,263.6	0.00	0.00	0.00
16,700.0	92.49	359.57	11,853.4	3,357.0	-882.5	3,363.5	0.00	0.00	0.00
16,800.0	92.49	359.57	11,849.1	3,456.9	-883.2	3,463.4	0.00	0.00	0.00
16,900.0	92.49	359.57	11,844.7	3,556.8	-884.0	3,563.3	0.00	0.00	0.00
17,000.0	92.49	359.57	11,840.4	3,656.7	-884.7	3,663.2	0.00	0.00	0.00
17,100.0	92.49	359.57	11,836.0	3,756.6	-885.5	3,763.1	0.00	0.00	0.00
17,169.5	92.49	359.57	11,833.0	3,826.0	-886.0	3,832.5	0.00	0.00	0.00
TD at 17169.5									

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.15 Single User Db Tap Rock Resources, LLC Lea County, NM (NAD 83 NME) (Contest Fed) Sec-9_T-24-S_R-34-E The Contest Fed Com #131H OWB Plan #3	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well The Contest Fed Com #131H KB @ 3589.0usft (H&P 245) KB @ 3589.0usft (H&P 245) Grid Minimum Curvature
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Design Targets										
Target Name		Dip Angle	Dip Dir.	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
- hit/miss target	- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (The Contest F	- plan hits target center	-2.49	359.57	11,833.0	3,826.0	-886.0	451,815.00	804,444.00	32° 14' 21.300 N	103° 28' 56.519 W
- Rectangle (sides W100.0 H1,333.8 D30.0)										
LTP (The Contest Fec	- plan misses target center by 3.1usft at 17099.5usft MD (11836.0 TVD, 3756.1 N, -885.5 E)	0.00	0.00	11,833.0	3,756.0	-886.0	451,745.00	804,444.00	32° 14' 20.607 N	103° 28' 56.526 W
- Point										
T1 (The Contest Fed (- plan hits target center	-2.80	359.57	11,891.0	2,493.5	-876.0	450,482.50	804,454.02	32° 14' 8.114 N	103° 28' 56.525 W
- Rectangle (sides W100.0 H3,827.6 D30.0)										
FTP (The Contest Fec	- plan misses target center by 218.5usft at 12109.7usft MD (11889.2 TVD, -1186.1 N, -848.3 E)	0.00	0.00	12,050.0	-1,334.0	-847.0	446,655.00	804,483.00	32° 13' 30.239 N	103° 28' 56.541 W
- Point										

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,196.0	1,196.0	Rustler Anhydrite			
1,726.2	1,725.0	Top Salt			
5,076.4	5,025.0	Base Salt			
5,348.6	5,293.0	Lamar			
5,350.6	5,295.0	Delaware Mountain Gp			
5,387.4	5,331.0	Bell Canyon			
5,389.4	5,333.0	Ramsey Sand			
6,467.8	6,377.0	Cherry Canyon			
7,784.9	7,651.0	Brushy Canyon			
9,147.4	8,975.0	Bone Spring Lime			
9,215.8	9,043.0	Upper Avalon			
9,507.1	9,334.0	Middle Avalon			
9,842.1	9,669.0	Lower Avalon			
10,168.1	9,995.0	1st Bone Spring Sand			
10,411.1	10,238.0	2nd Bone Spring Carb			
10,695.1	10,522.0	2nd Bone Spring Sand			
11,195.1	11,022.0	3rd Bone Spring Carb			
11,739.5	11,566.0	3rd Bone Spring Sand			
11,994.3	11,801.0	3rd BS W Sand			
12,081.4	11,869.0	Wolfcamp A X Sand			
12,216.5	11,956.0	Wolfcamp A Y Sand			
12,368.2	12,022.0	Wolfcamp A Lower			

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Site:	(Contest Fed) Sec-9_T-24-S_R-34-E	North Reference:	Grid
Well:	The Contest Fed Com #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
1,250.0	1,250.0	0.0	0.0	NUDGE - Build 1.50
1,916.7	1,913.3	-49.3	-30.7	HOLD - 3383.3 at 1916.7 MD
5,300.0	5,245.2	-548.0	-341.2	BLD - DLS 2.00 TFO 0.02
5,534.8	5,474.6	-590.6	-367.8	HOLD - 3203.5 at 5534.8 MD
8,738.3	8,573.2	-1,280.4	-797.4	DROP - 2.00
9,473.1	9,300.0	-1,360.0	-847.0	HOLD - 2178.0 at 9473.1 MD
11,651.1	11,478.0	-1,360.0	-847.0	KOP - DLS 10.00 TFO 359.57
12,579.1	12,050.3	-759.0	-851.5	EOC - 3256.5 hold at 12579.1 MD
15,835.7	11,891.0	2,493.5	-876.0	Start DLS 2.00 TFO 180.00
15,851.3	11,890.3	2,509.1	-876.1	Start 1318.2 hold at 15851.3 MD
17,169.5	11,833.0	3,826.0	-886.0	TD at 17169.5