3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

Carlsbad Field Office
Operator Copy

5. Lease Serial No.
NMNM0448921A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
TALCO 16-21 STATE FED COM 2H

2. Name of Operator
TAP ROCK OPERATING LLC
Contact: REBECCA DEAL
E-Mail: Rebecca.Deal@dvn.com

9. API Well No.
30-025-46812-00-X1

3a. Address
602 PARK POINT DRIVE SUITE 200
GOLDEN, CO 80401

3b. Phone No. (include area code)
Ph: 405-228-8429

10. Field and Pool or Exploratory Area
WC025G06S253201M-UPPER BONE S

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 16 T26S R35E NWNW 301FNL 1224FWL
32.049721 N Lat, 103.376991 W Lon

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 to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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., on behalf of Tap Rock Operating, LLC (602 PARK POINT DRIVE, STE 200 GOLDEN, CO 80401) respectfully requests to change SHL, BHL, and Depth. All changes will occur within existing approved disturbance and no additional disturbance will occur as a result of requested changes.

Request Name Change to Talco State Fed Com 202H ✓

New SHL will be 308 FNL and 1490 FWL of 16-26S-35E
New BHL will be 5 FSL and 2311 FWL of 21-26S-35E ✓
New Depth will be 12555 TVD AND 22890 MD ✓

Resulting Formation will be Wolfcamp ✓
Surface OK. NM. 03/20/2020. DOI-BLM-NM-P020-0325-EA. Same stipulations apply.
03/19/20 - Eng OK. Same COAs apply. AM

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #507379 verified by the BLM Well Information System
For TAP ROCK OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/17/2020 (20PP1713SE)

Name *(Printed/Typed)* REBECCA DEAL — Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission) — Date 03/17/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Cody R. Layton — Title AFM-LPN — Date 03/20/2020

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 CFO

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 ****

Additional data for EC transaction #507379 that would not fit on the form

32. Additional remarks, continued

Attached are new Drill, Casing, & Cement Plan, Directional Plan, and Plats reflecting requested changes. Also please see attached approved Change of Operator OCD filing. COO BLM sundry submitted by Tap Rock Operating, LLC and pending BLM approval.

Drilling Operations Plan
Talco State Fed Com 202H
Tap Rock Operating, LLC
SHL 308' FNL & 1490' FWL, Sec. 16
BHL 5' FSL & 2311' FWL, Sec. 21
T. 26S, R. 35E Lea County, NM

Elevation above Sea Level: 3198'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	1025	1025		Salt
Salado	1590	1590	Salt	Salt
Base Salt	4940	4966		Salt
Lamar	5340	5370	Limestone	None
Bell Canyon	5360	5390	Sandstone	Hydrocarbons
Cherry Canyon	6560	6602	Sandstone	Hydrocarbons
Brushy Canyon	7795	7849	Sandstone	Hydrocarbons
Bone Spring	9240	9298	Limestone	Hydrocarbons
1st Bone Spring	10505	10563	Sandstone	Hydrocarbons
2nd Bone Spring	10670	10728	Sandstone	Hydrocarbons
3rd Bone Spring	11505	11563	Sandstone	Hydrocarbons
KOP	11992	12050	Sandstone	Hydrocarbons
Wolfcamp A	12460	12598	Shale	Hydrocarbons
TD	12555	22890	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp 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:

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After surface casing is set and the BOP is nippled 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 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.

4. Casing & Cement

All Casing will be new.

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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	1100	0	1100	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	5390	0	5360	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	5090	0	5060	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	5090	11950	5060	11892	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	11750	0	11692	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	11750	22890	11692	12555	P-110	18	W-521	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	1132	1.35	1528	14.8	100%	C	5% NCl + LCM
1st Intermediate	Lead	0	1022	2.18	2228	12.7	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	4312	419	1.33	557	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	5090	358	2.22	795	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	10950	99	1.37	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	11250	1371	1.19	1632	15.8	25%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1100	FW Spud Mud	8.30	28	NC
Intermediate	1100	5390	Brine Water	10.00	30-32	NC
Intermediate 2	5390	11950	FW/Cut Brine	9.00	30-32	NC
Production	11950	22890	Oil Base Mud	11.50	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.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈7,514 psi. Expected bottom hole temperature is ≈170˚ F.

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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.

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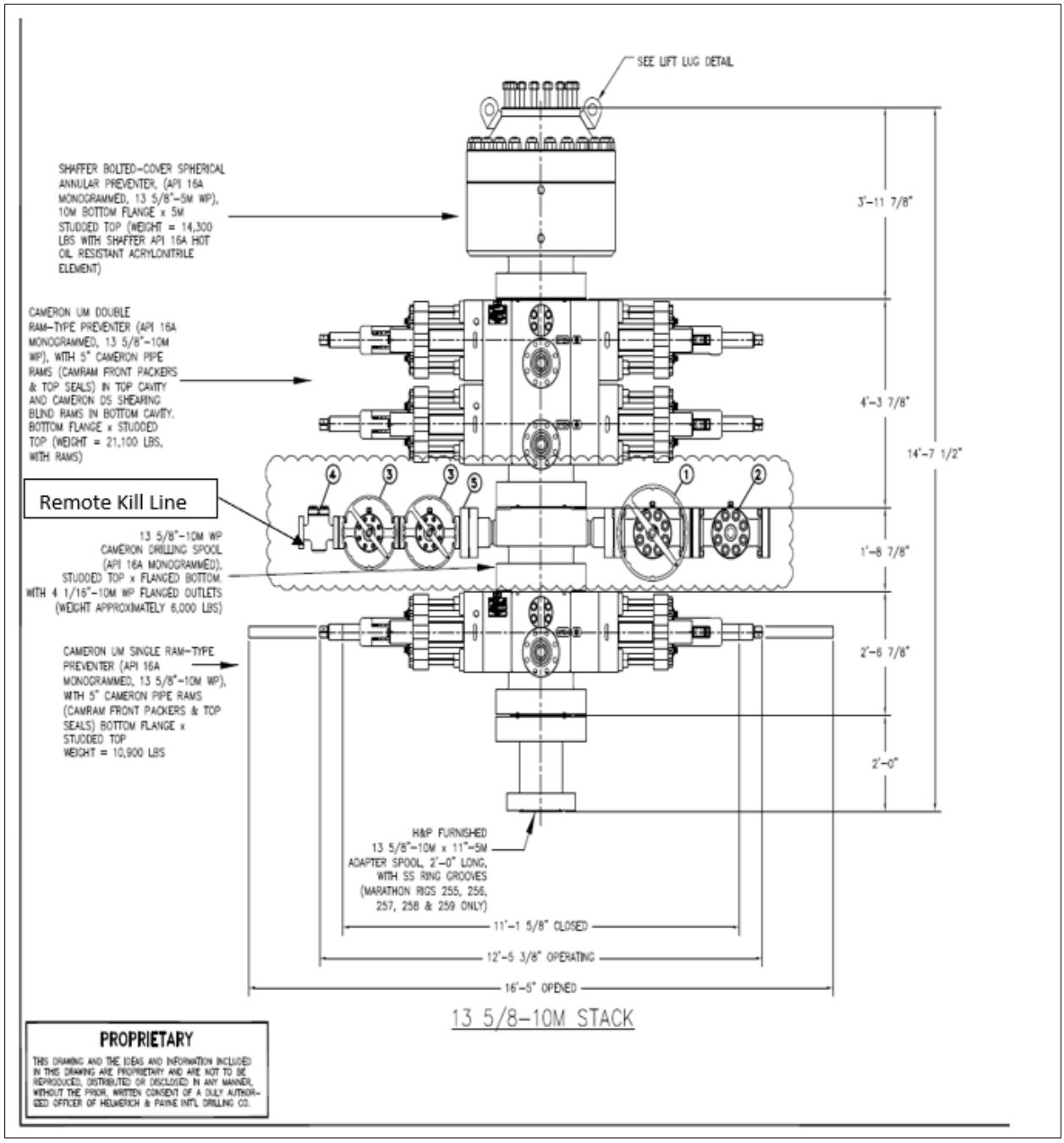
10,000 psi BOP Stack



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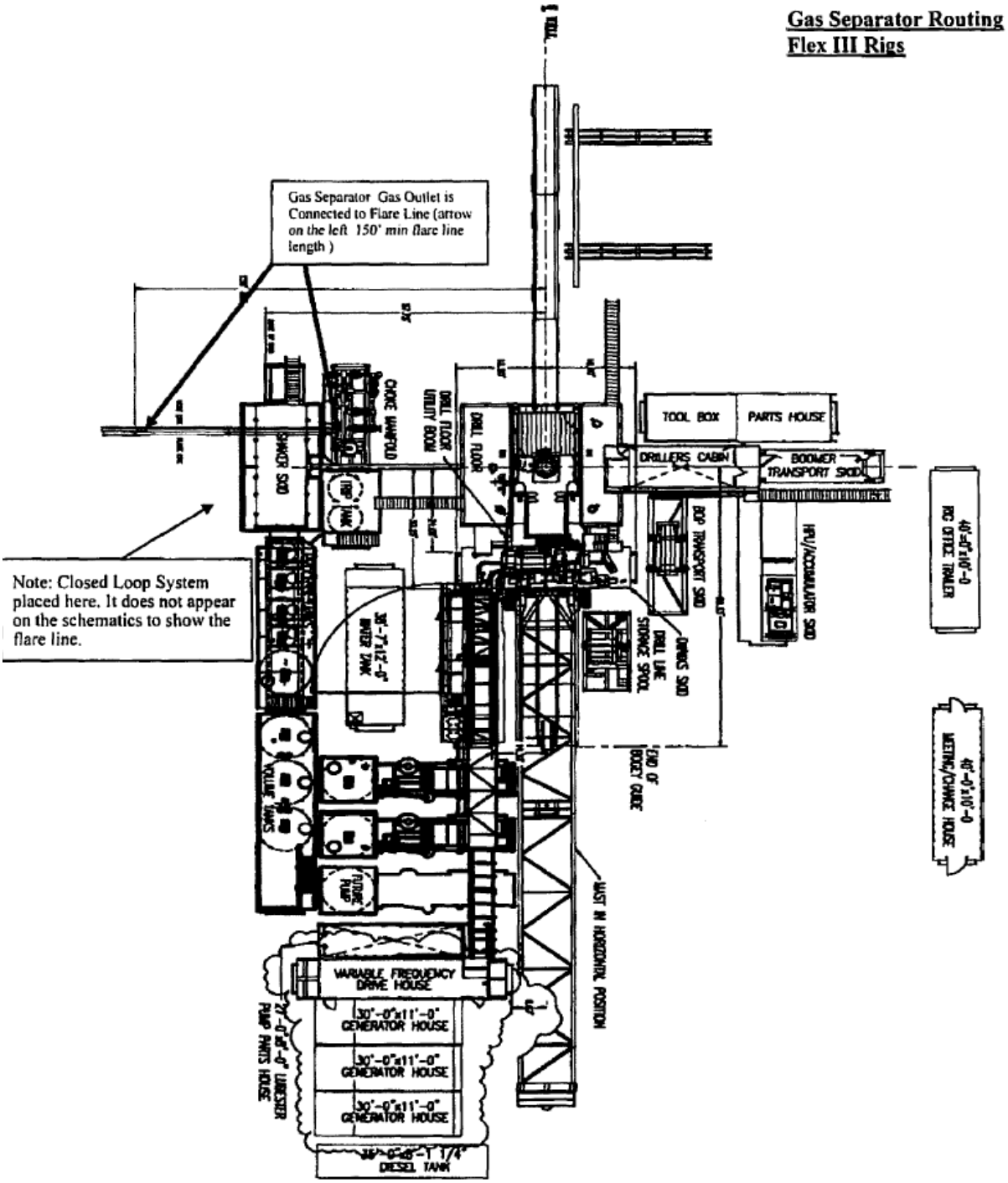
Gas Separator Routing
Flex III Rigs



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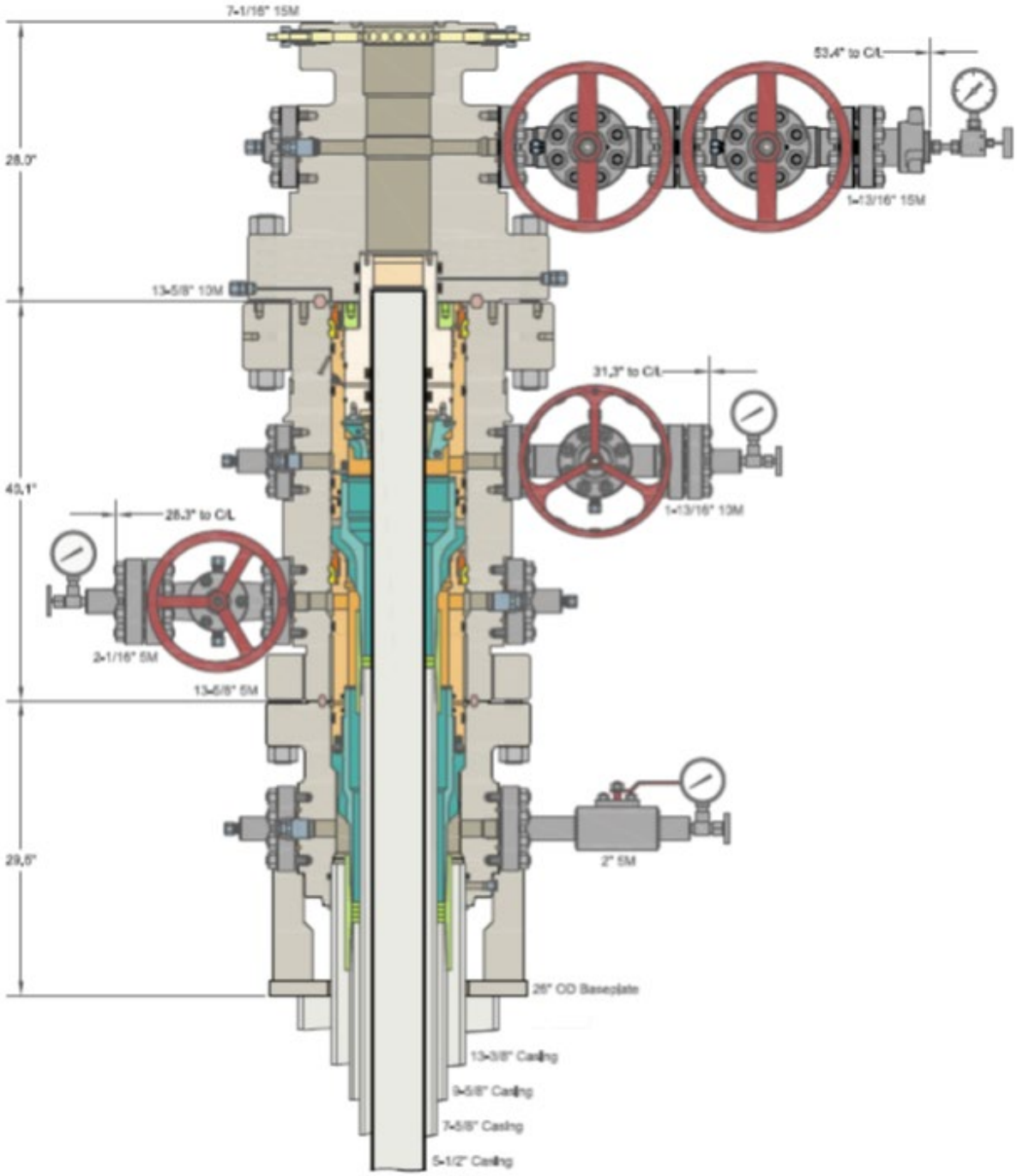
Multi-bowl Wellhead



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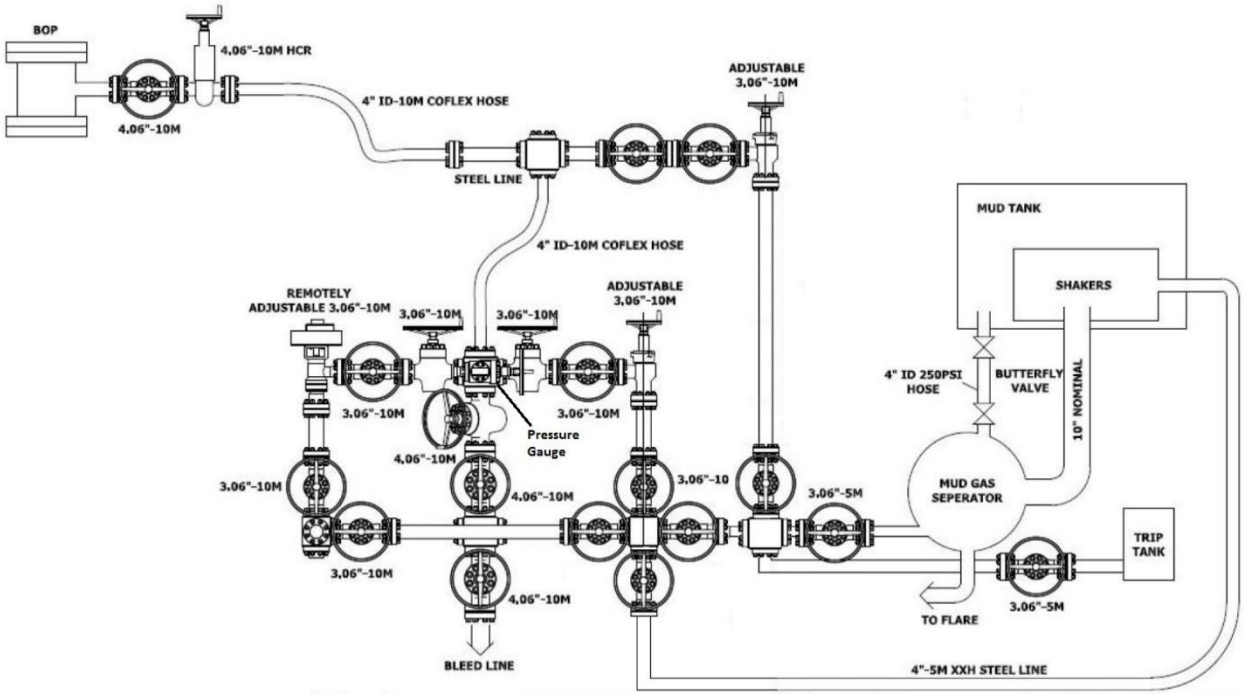
10M Choke Layout



Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Talco) Sec-16_T-26-S_R-35-E
Talco State Fed Com #202H

OWB

Plan: Plan #1

Standard Planning Report

09 February, 2020

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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 (Talco) Sec-16_T-26-S_R-35-E

Site Position:		**Northing:**	383,134.00 usft	**Latitude:**	32° 2' 58.925 N
From:	Map	**Easting:**	837,904.00 usft	**Longitude:**	103° 22' 34.080 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.51 °

Well Talco State Fed Com #202H

Well Position	**+N/-S**	0.0 usft	**Northing:**	383,134.00 usft	**Latitude:**	32° 2' 58.925 N
	+E/-W	0.0 usft	**Easting:**	837,904.00 usft	**Longitude:**	103° 22' 34.080 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,198.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/09/20	6.56	59.90	47,584.44756334

Design Plan #1

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	179.44

Plan Survey Tool Program **Date** 02/09/20

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,890.7	Plan #1 (OWB)	MWD OWSG MWD - Standard	

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	8.00	72.11	2,398.7	8.6	26.5	2.00	2.00	0.00	72.11	
8,178.8	8.00	72.11	8,121.3	255.7	792.0	0.00	0.00	0.00	0.00	
8,578.8	0.00	0.00	8,520.0	264.3	818.5	2.00	-2.00	0.00	180.00	
12,050.8	0.00	0.00	11,992.0	264.3	818.5	0.00	0.00	0.00	0.00	
12,951.4	90.06	179.44	12,565.0	-309.2	824.2	10.00	10.00	19.92	179.44	
22,890.7	90.06	179.44	12,555.0	-10,248.0	922.0	0.00	0.00	0.00	0.00	PBHL (Talco State

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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
1,025.0	0.00	0.00	1,025.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,590.0	0.00	0.00	1,590.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
2,100.0	2.00	72.11	2,100.0	0.5	1.7	-0.5	2.00	2.00	0.00
2,200.0	4.00	72.11	2,199.8	2.1	6.6	-2.1	2.00	2.00	0.00
2,300.0	6.00	72.11	2,299.5	4.8	14.9	-4.7	2.00	2.00	0.00
2,400.0	8.00	72.11	2,398.7	8.6	26.5	-8.3	2.00	2.00	0.00
HOLD - 5778.8 at 2400.0 MD									
2,500.0	8.00	72.11	2,497.7	12.8	39.8	-12.5	0.00	0.00	0.00
2,600.0	8.00	72.11	2,596.8	17.1	53.0	-16.6	0.00	0.00	0.00
2,700.0	8.00	72.11	2,695.8	21.4	66.3	-20.7	0.00	0.00	0.00
2,800.0	8.00	72.11	2,794.8	25.7	79.5	-24.9	0.00	0.00	0.00
2,900.0	8.00	72.11	2,893.8	30.0	92.8	-29.0	0.00	0.00	0.00
3,000.0	8.00	72.11	2,992.9	34.2	106.0	-33.2	0.00	0.00	0.00
3,100.0	8.00	72.11	3,091.9	38.5	119.3	-37.3	0.00	0.00	0.00
3,200.0	8.00	72.11	3,190.9	42.8	132.5	-41.5	0.00	0.00	0.00
3,300.0	8.00	72.11	3,289.9	47.1	145.7	-45.6	0.00	0.00	0.00
3,400.0	8.00	72.11	3,389.0	51.3	159.0	-49.8	0.00	0.00	0.00
3,500.0	8.00	72.11	3,488.0	55.6	172.2	-53.9	0.00	0.00	0.00
3,600.0	8.00	72.11	3,587.0	59.9	185.5	-58.1	0.00	0.00	0.00
3,700.0	8.00	72.11	3,686.0	64.2	198.7	-62.2	0.00	0.00	0.00
3,800.0	8.00	72.11	3,785.1	68.4	212.0	-66.4	0.00	0.00	0.00
3,900.0	8.00	72.11	3,884.1	72.7	225.2	-70.5	0.00	0.00	0.00
4,000.0	8.00	72.11	3,983.1	77.0	238.5	-74.7	0.00	0.00	0.00
4,100.0	8.00	72.11	4,082.2	81.3	251.7	-78.8	0.00	0.00	0.00
4,200.0	8.00	72.11	4,181.2	85.6	265.0	-83.0	0.00	0.00	0.00
4,300.0	8.00	72.11	4,280.2	89.8	278.2	-87.1	0.00	0.00	0.00
4,400.0	8.00	72.11	4,379.2	94.1	291.4	-91.3	0.00	0.00	0.00
4,500.0	8.00	72.11	4,478.3	98.4	304.7	-95.4	0.00	0.00	0.00
4,600.0	8.00	72.11	4,577.3	102.7	317.9	-99.5	0.00	0.00	0.00
4,700.0	8.00	72.11	4,676.3	106.9	331.2	-103.7	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
4,800.0	8.00	72.11	4,775.3	111.2	344.4	-107.8	0.00	0.00	0.00
4,900.0	8.00	72.11	4,874.4	115.5	357.7	-112.0	0.00	0.00	0.00
4,966.3	8.00	72.11	4,940.0	118.3	366.4	-114.7	0.00	0.00	0.00
Base Salt									
5,000.0	8.00	72.11	4,973.4	119.8	370.9	-116.1	0.00	0.00	0.00
5,100.0	8.00	72.11	5,072.4	124.0	384.2	-120.3	0.00	0.00	0.00
5,200.0	8.00	72.11	5,171.4	128.3	397.4	-124.4	0.00	0.00	0.00
5,300.0	8.00	72.11	5,270.5	132.6	410.7	-128.6	0.00	0.00	0.00
5,355.1	8.00	72.11	5,325.0	135.0	417.9	-130.9	0.00	0.00	0.00
Delaware Mountain Gp									
5,370.2	8.00	72.11	5,340.0	135.6	420.0	-131.5	0.00	0.00	0.00
Lamar									
5,390.4	8.00	72.11	5,360.0	136.5	422.6	-132.3	0.00	0.00	0.00
Bell Canyon									
5,400.0	8.00	72.11	5,369.5	136.9	423.9	-132.7	0.00	0.00	0.00
5,415.7	8.00	72.11	5,385.0	137.5	426.0	-133.4	0.00	0.00	0.00
Ramsey Sand									
5,500.0	8.00	72.11	5,468.5	141.2	437.1	-136.9	0.00	0.00	0.00
5,600.0	8.00	72.11	5,567.6	145.4	450.4	-141.0	0.00	0.00	0.00
5,700.0	8.00	72.11	5,666.6	149.7	463.6	-145.2	0.00	0.00	0.00
5,800.0	8.00	72.11	5,765.6	154.0	476.9	-149.3	0.00	0.00	0.00
5,900.0	8.00	72.11	5,864.6	158.3	490.1	-153.5	0.00	0.00	0.00
6,000.0	8.00	72.11	5,963.7	162.5	503.4	-157.6	0.00	0.00	0.00
6,100.0	8.00	72.11	6,062.7	166.8	516.6	-161.8	0.00	0.00	0.00
6,200.0	8.00	72.11	6,161.7	171.1	529.9	-165.9	0.00	0.00	0.00
6,300.0	8.00	72.11	6,260.7	175.4	543.1	-170.0	0.00	0.00	0.00
6,400.0	8.00	72.11	6,359.8	179.6	556.4	-174.2	0.00	0.00	0.00
6,500.0	8.00	72.11	6,458.8	183.9	569.6	-178.3	0.00	0.00	0.00
6,600.0	8.00	72.11	6,557.8	188.2	582.8	-182.5	0.00	0.00	0.00
6,602.2	8.00	72.11	6,560.0	188.3	583.1	-182.6	0.00	0.00	0.00
Cherry Canyon									
6,700.0	8.00	72.11	6,656.8	192.5	596.1	-186.6	0.00	0.00	0.00
6,800.0	8.00	72.11	6,755.9	196.7	609.3	-190.8	0.00	0.00	0.00
6,900.0	8.00	72.11	6,854.9	201.0	622.6	-194.9	0.00	0.00	0.00
7,000.0	8.00	72.11	6,953.9	205.3	635.8	-199.1	0.00	0.00	0.00
7,100.0	8.00	72.11	7,053.0	209.6	649.1	-203.2	0.00	0.00	0.00
7,200.0	8.00	72.11	7,152.0	213.9	662.3	-207.4	0.00	0.00	0.00
7,300.0	8.00	72.11	7,251.0	218.1	675.6	-211.5	0.00	0.00	0.00
7,400.0	8.00	72.11	7,350.0	222.4	688.8	-215.7	0.00	0.00	0.00
7,500.0	8.00	72.11	7,449.1	226.7	702.1	-219.8	0.00	0.00	0.00
7,600.0	8.00	72.11	7,548.1	231.0	715.3	-224.0	0.00	0.00	0.00
7,700.0	8.00	72.11	7,647.1	235.2	728.5	-228.1	0.00	0.00	0.00
7,800.0	8.00	72.11	7,746.1	239.5	741.8	-232.3	0.00	0.00	0.00
7,849.3	8.00	72.11	7,795.0	241.6	748.3	-234.3	0.00	0.00	0.00
Brushy Canyon									
7,900.0	8.00	72.11	7,845.2	243.8	755.0	-236.4	0.00	0.00	0.00
8,000.0	8.00	72.11	7,944.2	248.1	768.3	-240.6	0.00	0.00	0.00
8,100.0	8.00	72.11	8,043.2	252.3	781.5	-244.7	0.00	0.00	0.00
8,178.8	8.00	72.11	8,121.3	255.7	792.0	-248.0	0.00	0.00	0.00
DROP - -2.00									
8,200.0	7.58	72.11	8,142.3	256.6	794.7	-248.8	2.00	-2.00	0.00
8,300.0	5.58	72.11	8,241.6	260.1	805.6	-252.2	2.00	-2.00	0.00
8,400.0	3.58	72.11	8,341.3	262.6	813.2	-254.6	2.00	-2.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
8,500.0	1.58	72.11	8,441.2	264.0	817.5	-256.0	2.00	-2.00	0.00
8,578.8	0.00	0.00	8,520.0	264.3	818.5	-256.3	2.00	-2.00	0.00
HOLD - 3472.0 at 8578.8 MD									
8,600.0	0.00	0.00	8,541.2	264.3	818.5	-256.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,641.2	264.3	818.5	-256.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,741.2	264.3	818.5	-256.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,841.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,941.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,041.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,141.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,298.8	0.00	0.00	9,240.0	264.3	818.5	-256.3	0.00	0.00	0.00
Bone Spring Lime									
9,300.0	0.00	0.00	9,241.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,323.8	0.00	0.00	9,265.0	264.3	818.5	-256.3	0.00	0.00	0.00
Upper Avalon									
9,400.0	0.00	0.00	9,341.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,441.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,541.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,641.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,723.8	0.00	0.00	9,665.0	264.3	818.5	-256.3	0.00	0.00	0.00
Middle Avalon									
9,800.0	0.00	0.00	9,741.2	264.3	818.5	-256.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,841.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,941.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,048.8	0.00	0.00	9,990.0	264.3	818.5	-256.3	0.00	0.00	0.00
Lower Avalon									
10,100.0	0.00	0.00	10,041.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,141.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,241.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,341.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,441.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,563.8	0.00	0.00	10,505.0	264.3	818.5	-256.3	0.00	0.00	0.00
1st Bone Spring Sand									
10,600.0	0.00	0.00	10,541.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,641.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,728.8	0.00	0.00	10,670.0	264.3	818.5	-256.3	0.00	0.00	0.00
2nd Bone Spring Carb									
10,800.0	0.00	0.00	10,741.2	264.3	818.5	-256.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,841.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,941.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,078.8	0.00	0.00	11,020.0	264.3	818.5	-256.3	0.00	0.00	0.00
2nd Bone Spring Sand									
11,100.0	0.00	0.00	11,041.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,141.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,241.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,341.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,441.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,563.8	0.00	0.00	11,505.0	264.3	818.5	-256.3	0.00	0.00	0.00
3rd Bone Spring Carb									
11,600.0	0.00	0.00	11,541.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,641.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,741.2	264.3	818.5	-256.3	0.00	0.00	0.00
11,900.0	0.00	0.00	11,841.2	264.3	818.5	-256.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
12,000.0	0.00	0.00	11,941.2	264.3	818.5	-256.3	0.00	0.00	0.00
12,050.8	0.00	0.00	11,992.0	264.3	818.5	-256.3	0.00	0.00	0.00
KOP - DLS 10.00 TFO 179.44									
12,100.0	4.92	179.44	12,041.1	262.2	818.5	-254.2	10.00	10.00	0.00
12,150.0	9.92	179.44	12,090.7	255.7	818.6	-247.7	10.00	10.00	0.00
12,200.0	14.92	179.44	12,139.5	245.0	818.7	-237.0	10.00	10.00	0.00
12,205.7	15.49	179.44	12,145.0	243.5	818.7	-235.5	10.00	10.00	0.00
3rd Bone Spring Sand									
12,250.0	19.92	179.44	12,187.2	230.0	818.8	-222.0	10.00	10.00	0.00
12,300.0	24.92	179.44	12,233.4	211.0	819.0	-203.0	10.00	10.00	0.00
12,350.0	29.92	179.44	12,277.7	188.0	819.3	-179.9	10.00	10.00	0.00
12,400.0	34.92	179.44	12,319.9	161.2	819.5	-153.1	10.00	10.00	0.00
12,450.0	39.92	179.44	12,359.6	130.8	819.8	-122.8	10.00	10.00	0.00
12,500.0	44.92	179.44	12,396.5	97.1	820.2	-89.1	10.00	10.00	0.00
12,504.9	45.41	179.44	12,400.0	93.6	820.2	-85.6	10.00	10.00	0.00
3rd BS W Sand									
12,550.0	49.92	179.44	12,430.4	60.3	820.5	-52.3	10.00	10.00	0.00
12,598.5	54.77	179.44	12,460.0	21.9	820.9	-13.9	10.00	10.00	0.00
Wolfcamp A X Sand									
12,600.0	54.92	179.44	12,460.9	20.7	820.9	-12.6	10.00	10.00	0.00
12,650.0	59.92	179.44	12,487.8	-21.4	821.3	29.5	10.00	10.00	0.00
12,700.0	64.92	179.44	12,510.9	-65.7	821.8	73.8	10.00	10.00	0.00
12,750.0	69.92	179.44	12,530.1	-111.9	822.2	119.9	10.00	10.00	0.00
12,764.8	71.39	179.44	12,535.0	-125.8	822.3	133.8	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,800.0	74.92	179.44	12,545.2	-159.5	822.7	167.6	10.00	10.00	0.00
12,850.0	79.92	179.44	12,556.1	-208.3	823.2	216.4	10.00	10.00	0.00
12,900.0	84.92	179.44	12,562.7	-257.9	823.6	265.9	10.00	10.00	0.00
12,951.4	90.06	179.44	12,565.0	-309.2	824.2	317.3	10.00	10.00	0.00
EOC - 9939.3 hold at 12951.4 MD									
13,000.0	90.06	179.44	12,564.9	-357.8	824.6	365.8	0.00	0.00	0.00
13,100.0	90.06	179.44	12,564.8	-457.8	825.6	465.8	0.00	0.00	0.00
13,200.0	90.06	179.44	12,564.7	-557.8	826.6	565.8	0.00	0.00	0.00
13,300.0	90.06	179.44	12,564.6	-657.8	827.6	665.8	0.00	0.00	0.00
13,400.0	90.06	179.44	12,564.5	-757.8	828.6	765.8	0.00	0.00	0.00
13,500.0	90.06	179.44	12,564.4	-857.8	829.6	865.8	0.00	0.00	0.00
13,600.0	90.06	179.44	12,564.3	-957.8	830.5	965.8	0.00	0.00	0.00
13,700.0	90.06	179.44	12,564.2	-1,057.8	831.5	1,065.8	0.00	0.00	0.00
13,800.0	90.06	179.44	12,564.1	-1,157.8	832.5	1,165.8	0.00	0.00	0.00
13,900.0	90.06	179.44	12,564.0	-1,257.7	833.5	1,265.8	0.00	0.00	0.00
14,000.0	90.06	179.44	12,563.9	-1,357.7	834.5	1,365.8	0.00	0.00	0.00
14,100.0	90.06	179.44	12,563.8	-1,457.7	835.5	1,465.8	0.00	0.00	0.00
14,200.0	90.06	179.44	12,563.7	-1,557.7	836.4	1,565.8	0.00	0.00	0.00
14,300.0	90.06	179.44	12,563.6	-1,657.7	837.4	1,665.8	0.00	0.00	0.00
14,400.0	90.06	179.44	12,563.5	-1,757.7	838.4	1,765.8	0.00	0.00	0.00
14,500.0	90.06	179.44	12,563.4	-1,857.7	839.4	1,865.8	0.00	0.00	0.00
14,600.0	90.06	179.44	12,563.3	-1,957.7	840.4	1,965.8	0.00	0.00	0.00
14,700.0	90.06	179.44	12,563.2	-2,057.7	841.4	2,065.8	0.00	0.00	0.00
14,800.0	90.06	179.44	12,563.1	-2,157.7	842.3	2,165.8	0.00	0.00	0.00
14,900.0	90.06	179.44	12,563.0	-2,257.7	843.3	2,265.8	0.00	0.00	0.00
15,000.0	90.06	179.44	12,562.9	-2,357.7	844.3	2,365.8	0.00	0.00	0.00
15,100.0	90.06	179.44	12,562.8	-2,457.7	845.3	2,465.8	0.00	0.00	0.00
15,200.0	90.06	179.44	12,562.7	-2,557.7	846.3	2,565.8	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
15,300.0	90.06	179.44	12,562.6	-2,657.7	847.3	2,665.8	0.00	0.00	0.00
15,400.0	90.06	179.44	12,562.5	-2,757.7	848.3	2,765.8	0.00	0.00	0.00
15,500.0	90.06	179.44	12,562.4	-2,857.7	849.2	2,865.8	0.00	0.00	0.00
15,600.0	90.06	179.44	12,562.3	-2,957.7	850.2	2,965.8	0.00	0.00	0.00
15,700.0	90.06	179.44	12,562.2	-3,057.7	851.2	3,065.8	0.00	0.00	0.00
15,800.0	90.06	179.44	12,562.1	-3,157.7	852.2	3,165.8	0.00	0.00	0.00
15,900.0	90.06	179.44	12,562.0	-3,257.6	853.2	3,265.8	0.00	0.00	0.00
16,000.0	90.06	179.44	12,561.9	-3,357.6	854.2	3,365.8	0.00	0.00	0.00
16,100.0	90.06	179.44	12,561.8	-3,457.6	855.1	3,465.8	0.00	0.00	0.00
16,200.0	90.06	179.44	12,561.7	-3,557.6	856.1	3,565.8	0.00	0.00	0.00
16,300.0	90.06	179.44	12,561.6	-3,657.6	857.1	3,665.8	0.00	0.00	0.00
16,400.0	90.06	179.44	12,561.5	-3,757.6	858.1	3,765.8	0.00	0.00	0.00
16,500.0	90.06	179.44	12,561.4	-3,857.6	859.1	3,865.8	0.00	0.00	0.00
16,600.0	90.06	179.44	12,561.3	-3,957.6	860.1	3,965.8	0.00	0.00	0.00
16,700.0	90.06	179.44	12,561.2	-4,057.6	861.1	4,065.8	0.00	0.00	0.00
16,800.0	90.06	179.44	12,561.1	-4,157.6	862.0	4,165.8	0.00	0.00	0.00
16,900.0	90.06	179.44	12,561.0	-4,257.6	863.0	4,265.8	0.00	0.00	0.00
17,000.0	90.06	179.44	12,560.9	-4,357.6	864.0	4,365.8	0.00	0.00	0.00
17,100.0	90.06	179.44	12,560.8	-4,457.6	865.0	4,465.8	0.00	0.00	0.00
17,200.0	90.06	179.44	12,560.7	-4,557.6	866.0	4,565.8	0.00	0.00	0.00
17,300.0	90.06	179.44	12,560.6	-4,657.6	867.0	4,665.8	0.00	0.00	0.00
17,400.0	90.06	179.44	12,560.5	-4,757.6	867.9	4,765.8	0.00	0.00	0.00
17,500.0	90.06	179.44	12,560.4	-4,857.6	868.9	4,865.8	0.00	0.00	0.00
17,600.0	90.06	179.44	12,560.3	-4,957.6	869.9	4,965.8	0.00	0.00	0.00
17,700.0	90.06	179.44	12,560.2	-5,057.6	870.9	5,065.8	0.00	0.00	0.00
17,800.0	90.06	179.44	12,560.1	-5,157.6	871.9	5,165.8	0.00	0.00	0.00
17,900.0	90.06	179.44	12,560.0	-5,257.5	872.9	5,265.8	0.00	0.00	0.00
18,000.0	90.06	179.44	12,559.9	-5,357.5	873.9	5,365.8	0.00	0.00	0.00
18,100.0	90.06	179.44	12,559.8	-5,457.5	874.8	5,465.8	0.00	0.00	0.00
18,200.0	90.06	179.44	12,559.7	-5,557.5	875.8	5,565.8	0.00	0.00	0.00
18,300.0	90.06	179.44	12,559.6	-5,657.5	876.8	5,665.8	0.00	0.00	0.00
18,400.0	90.06	179.44	12,559.5	-5,757.5	877.8	5,765.8	0.00	0.00	0.00
18,500.0	90.06	179.44	12,559.4	-5,857.5	878.8	5,865.8	0.00	0.00	0.00
18,600.0	90.06	179.44	12,559.3	-5,957.5	879.8	5,965.8	0.00	0.00	0.00
18,700.0	90.06	179.44	12,559.2	-6,057.5	880.7	6,065.8	0.00	0.00	0.00
18,800.0	90.06	179.44	12,559.1	-6,157.5	881.7	6,165.8	0.00	0.00	0.00
18,900.0	90.06	179.44	12,559.0	-6,257.5	882.7	6,265.8	0.00	0.00	0.00
19,000.0	90.06	179.44	12,558.9	-6,357.5	883.7	6,365.8	0.00	0.00	0.00
19,100.0	90.06	179.44	12,558.8	-6,457.5	884.7	6,465.8	0.00	0.00	0.00
19,200.0	90.06	179.44	12,558.7	-6,557.5	885.7	6,565.8	0.00	0.00	0.00
19,300.0	90.06	179.44	12,558.6	-6,657.5	886.7	6,665.8	0.00	0.00	0.00
19,400.0	90.06	179.44	12,558.5	-6,757.5	887.6	6,765.8	0.00	0.00	0.00
19,500.0	90.06	179.44	12,558.4	-6,857.5	888.6	6,865.8	0.00	0.00	0.00
19,600.0	90.06	179.44	12,558.3	-6,957.5	889.6	6,965.8	0.00	0.00	0.00
19,700.0	90.06	179.44	12,558.2	-7,057.5	890.6	7,065.8	0.00	0.00	0.00
19,800.0	90.06	179.44	12,558.1	-7,157.5	891.6	7,165.8	0.00	0.00	0.00
19,900.0	90.06	179.44	12,558.0	-7,257.5	892.6	7,265.8	0.00	0.00	0.00
20,000.0	90.06	179.44	12,557.9	-7,357.4	893.5	7,365.8	0.00	0.00	0.00
20,100.0	90.06	179.44	12,557.8	-7,457.4	894.5	7,465.8	0.00	0.00	0.00
20,200.0	90.06	179.44	12,557.7	-7,557.4	895.5	7,565.8	0.00	0.00	0.00
20,300.0	90.06	179.44	12,557.6	-7,657.4	896.5	7,665.8	0.00	0.00	0.00
20,400.0	90.06	179.44	12,557.5	-7,757.4	897.5	7,765.8	0.00	0.00	0.00
20,500.0	90.06	179.44	12,557.4	-7,857.4	898.5	7,865.8	0.00	0.00	0.00
20,600.0	90.06	179.44	12,557.3	-7,957.4	899.4	7,965.8	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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)
20,700.0	90.06	179.44	12,557.2	-8,057.4	900.4	8,065.8	0.00	0.00	0.00
20,800.0	90.06	179.44	12,557.1	-8,157.4	901.4	8,165.8	0.00	0.00	0.00
20,900.0	90.06	179.44	12,557.0	-8,257.4	902.4	8,265.8	0.00	0.00	0.00
21,000.0	90.06	179.44	12,556.9	-8,357.4	903.4	8,365.8	0.00	0.00	0.00
21,100.0	90.06	179.44	12,556.8	-8,457.4	904.4	8,465.8	0.00	0.00	0.00
21,200.0	90.06	179.44	12,556.7	-8,557.4	905.4	8,565.8	0.00	0.00	0.00
21,300.0	90.06	179.44	12,556.6	-8,657.4	906.3	8,665.8	0.00	0.00	0.00
21,400.0	90.06	179.44	12,556.5	-8,757.4	907.3	8,765.8	0.00	0.00	0.00
21,500.0	90.06	179.44	12,556.4	-8,857.4	908.3	8,865.8	0.00	0.00	0.00
21,600.0	90.06	179.44	12,556.3	-8,957.4	909.3	8,965.8	0.00	0.00	0.00
21,700.0	90.06	179.44	12,556.2	-9,057.4	910.3	9,065.8	0.00	0.00	0.00
21,800.0	90.06	179.44	12,556.1	-9,157.4	911.3	9,165.8	0.00	0.00	0.00
21,900.0	90.06	179.44	12,556.0	-9,257.4	912.2	9,265.8	0.00	0.00	0.00
22,000.0	90.06	179.44	12,555.9	-9,357.3	913.2	9,365.8	0.00	0.00	0.00
22,100.0	90.06	179.44	12,555.8	-9,457.3	914.2	9,465.8	0.00	0.00	0.00
22,200.0	90.06	179.44	12,555.7	-9,557.3	915.2	9,565.8	0.00	0.00	0.00
22,300.0	90.06	179.44	12,555.6	-9,657.3	916.2	9,665.8	0.00	0.00	0.00
22,400.0	90.06	179.44	12,555.5	-9,757.3	917.2	9,765.8	0.00	0.00	0.00
22,500.0	90.06	179.44	12,555.4	-9,857.3	918.2	9,865.8	0.00	0.00	0.00
22,600.0	90.06	179.44	12,555.3	-9,957.3	919.1	9,965.8	0.00	0.00	0.00
22,700.0	90.06	179.44	12,555.2	-10,057.3	920.1	10,065.8	0.00	0.00	0.00
22,800.0	90.06	179.44	12,555.1	-10,157.3	921.1	10,165.8	0.00	0.00	0.00
22,890.7	90.06	179.44	12,555.0	-10,248.0	922.0	10,256.5	0.00	0.00	0.00
TD at 22890.7									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Talco State Fed - plan misses target center by 0.1usft at 22795.7usft MD (12555.1 TVD, -10153.0 N, 921.1 E) - Point	0.00	0.00	12,555.0	-10,153.0	921.0	372,981.00	838,825.00	32° 1' 18.380 N	103° 22' 24.428 W
PBHL (Talco State Fe - plan hits target center - Rectangle (sides W100.0 H10,463.0 D30.0)	-0.06	179.44	12,555.0	-10,248.0	922.0	372,886.00	838,826.00	32° 1' 17.440 N	103° 22' 24.426 W
FTP (Talco State Fed - plan misses target center by 202.6usft at 12527.0usft MD (12415.2 TVD, 77.5 N, 820.3 E) - Point	0.00	0.00	12,565.0	214.0	819.0	383,348.00	838,723.00	32° 3' 0.970 N	103° 22' 24.543 W

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Talco State Fed Com #202H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3224.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3224.0usft (H&P 388)
Site:	(Talco) Sec-16_T-26-S_R-35-E	**North Reference:**	Grid
Well:	Talco State Fed Com #202H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,025.0	1,025.0	Rustler Anhydrite			
1,590.0	1,590.0	Top Salt			
4,966.3	4,940.0	Base Salt			
5,355.1	5,325.0	Delaware Mountain Gp			
5,370.2	5,340.0	Lamar			
5,390.4	5,360.0	Bell Canyon			
5,415.7	5,385.0	Ramsey Sand			
6,602.2	6,560.0	Cherry Canyon			
7,849.3	7,795.0	Brushy Canyon			
9,298.8	9,240.0	Bone Spring Lime			
9,323.8	9,265.0	Upper Avalon			
9,723.8	9,665.0	Middle Avalon			
10,048.8	9,990.0	Lower Avalon			
10,563.8	10,505.0	1st Bone Spring Sand			
10,728.8	10,670.0	2nd Bone Spring Carb			
11,078.8	11,020.0	2nd Bone Spring Sand			
11,563.8	11,505.0	3rd Bone Spring Carb			
12,205.7	12,145.0	3rd Bone Spring Sand			
12,504.9	12,400.0	3rd BS W Sand			
12,598.5	12,460.0	Wolfcamp A X Sand			
12,764.8	12,535.0	Wolfcamp A Y Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00
2,400.0	2,398.7	8.6	26.5	HOLD - 5778.8 at 2400.0 MD
8,178.8	8,121.3	255.7	792.0	DROP - -2.00
8,578.8	8,520.0	264.3	818.5	HOLD - 3472.0 at 8578.8 MD
12,050.8	11,992.0	264.3	818.5	KOP - DLS 10.00 TFO 179.44
12,951.4	12,565.0	-309.2	824.2	EOC - 9939.3 hold at 12951.4 MD
22,890.7	12,555.0	-10,248.0	922.0	TD at 22890.7

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

[X] **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-46812	98117	WC-025 G-09 S263504N; WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
329955	TALCO STATE FED COM	202H

[7]OGRID No.	[8]Operator Name	[9]Elevation
#372043	TAP ROCK OPERATING, LLC.	3198'

[10]Surface Location

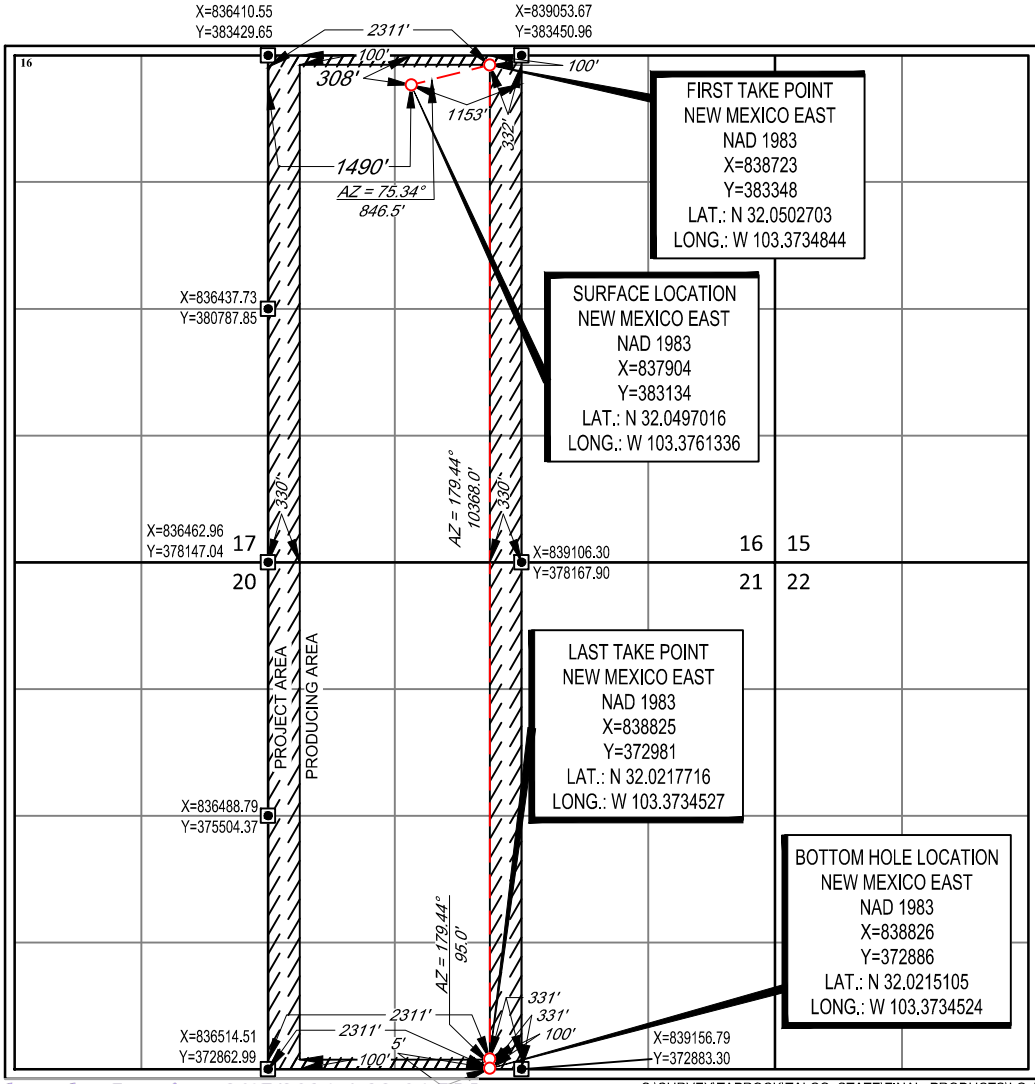
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	16	26-S	35-E	-	308'	NORTH	1490'	WEST	LEA

[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
N	21	26-S	35-E	-	5'	SOUTH	2311'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.

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.



[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 — Date: 3/12/2020

CHRISTIAN COMBS
Printed Name

ccombs@taprk.com
E-mail Address

[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 to the best of my belief.

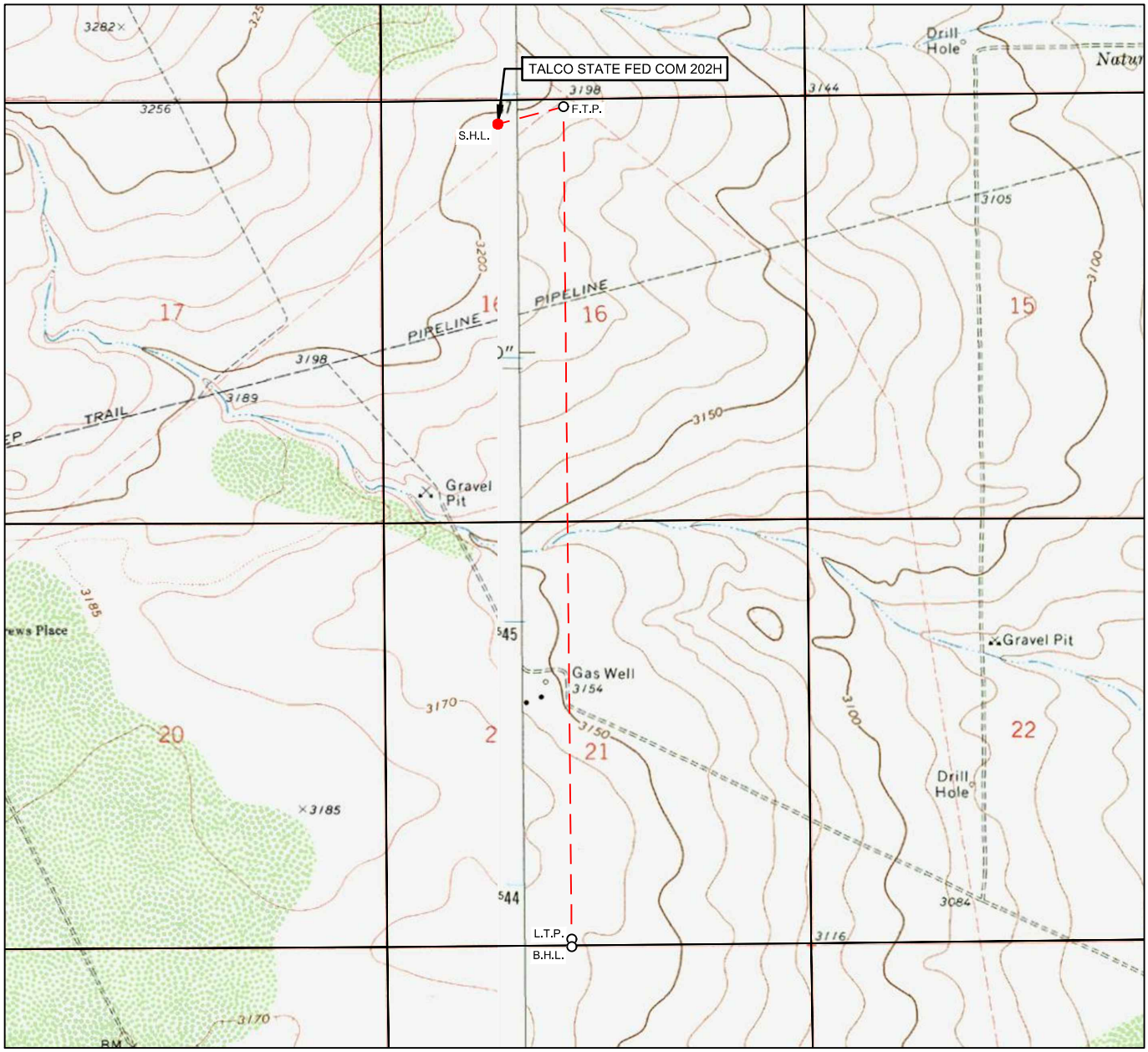
12/02/2019
Date of Survey
Signature and Seal of Professional Surveyor

JOHN A. CARNEGIE
NEW MEXICO
11401
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\TAPROCK\TALCO_STATE\FINAL_PRODUCTS\LO_TALCO_STATE_FED_COM_202H_REV1.DWG 2/6/2020 12:27:07 PM rclark

LOCATION & ELEVATION VERIFICATION MAP



TAP ROCK

LEASE NAME & WELL NO.: TALCO STATE FED COM 202H

SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3198'
DESCRIPTION 308' FNL & 1490' FWL

LATITUDE N 32.0497016 LONGITUDE W 103.3761336

–N–

SCALE: 1" = 2000'

0' 1000' 2000'

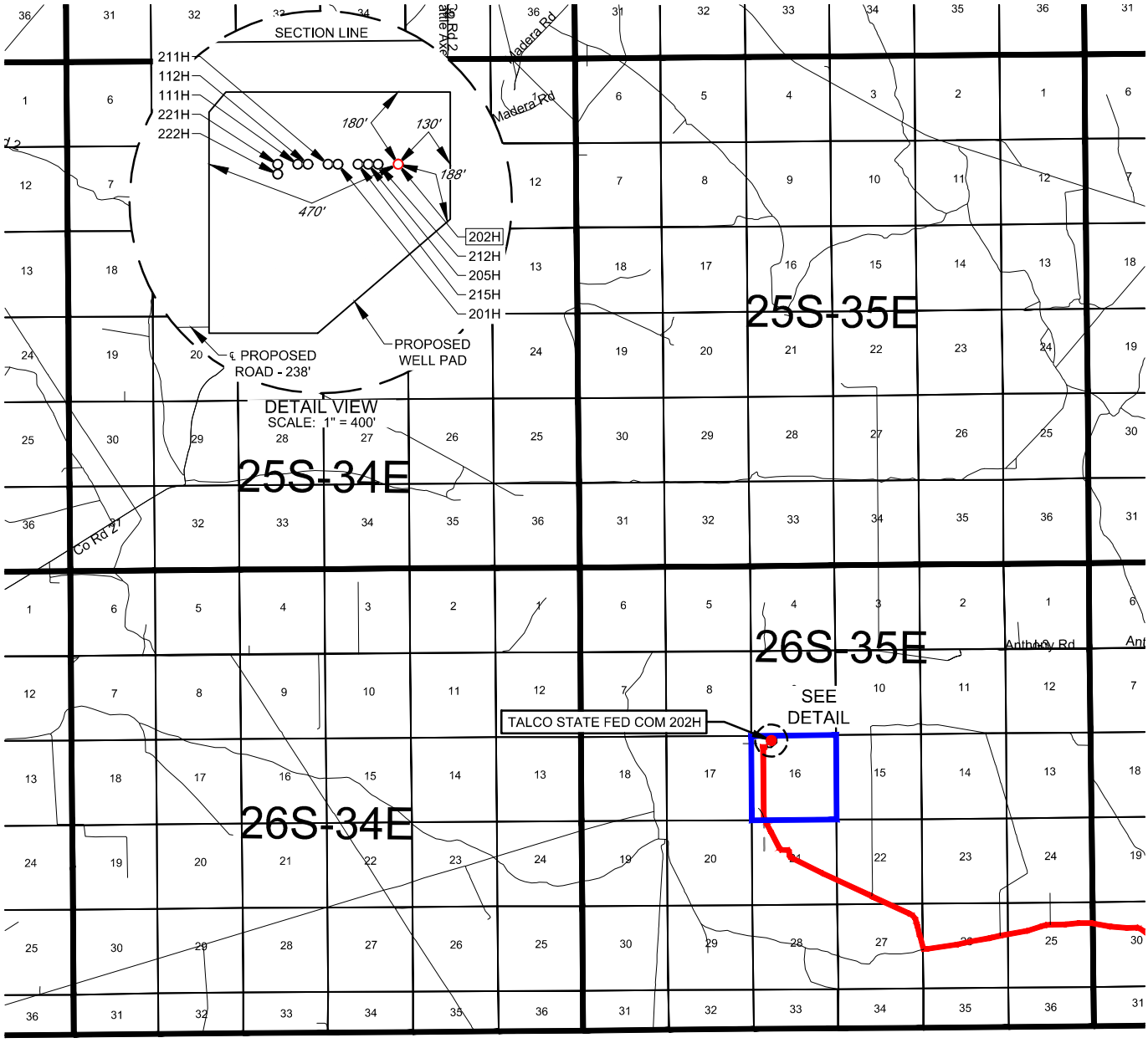
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT 2

VICINITY MAP



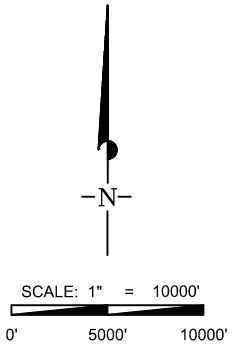
TAP ROCK

LEASE NAME & WELL NO.: TALCO STATE FED COM 202H

SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 308' FNL & 1490' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-205, & E NEVADA AVE, GO SOUTH ON NM-205 ±3.4 MILES, THENCE CONTINUE SOUTH ON FRYING PAN RD. ±4.4 MILES, THENCE WEST (RIGHT) ON BECKHAM RD. ±5.4 MILES, THENCE NORTHWEST (RIGHT) ON A LEASE RD. ±2.3 MILES, THENCE NORTH (RIGHT) ON A LEASE RD. ±1.2 MILES, THENCE EAST (RIGHT) ON A PROPOSED RD. ±238 FEET TO A POINT ±620 FEET SOUTHWEST OF THE LOCATION.



THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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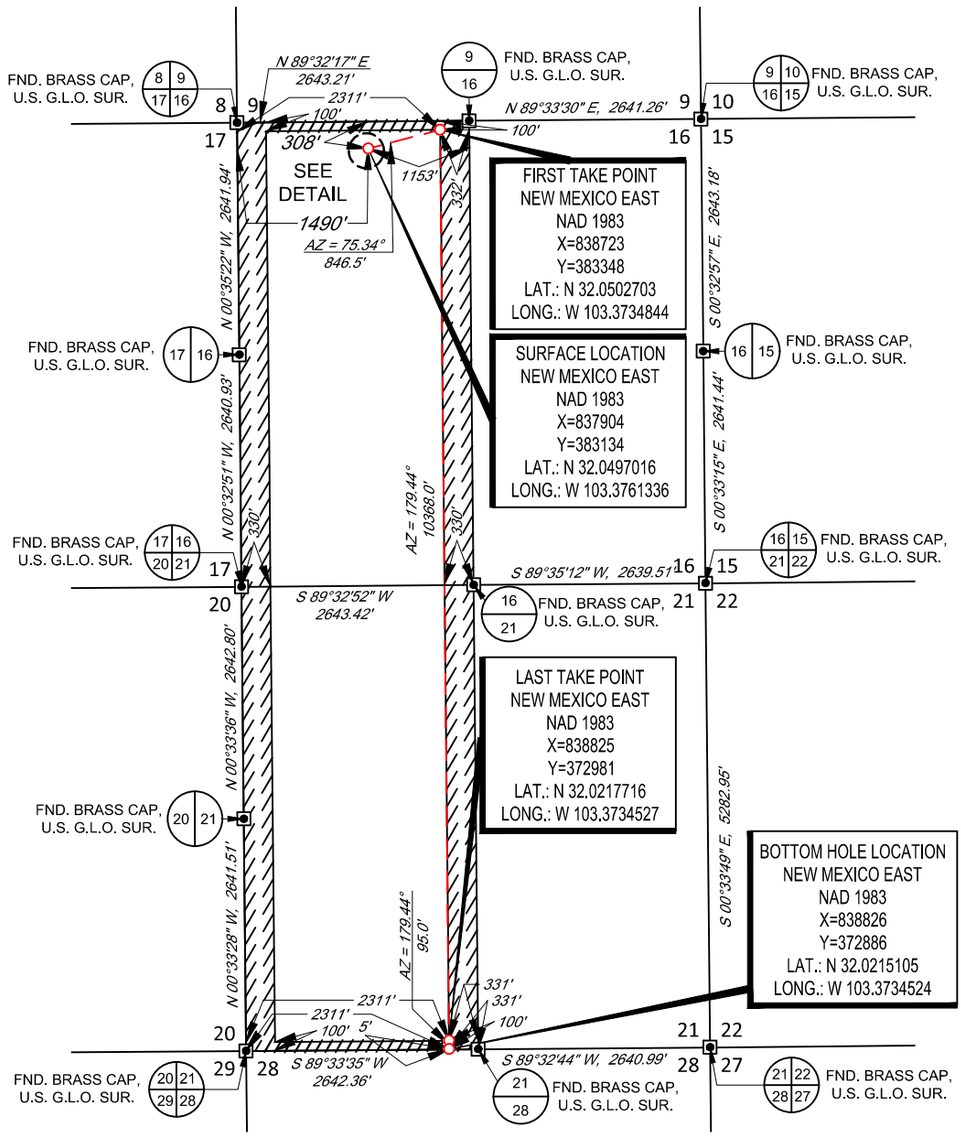
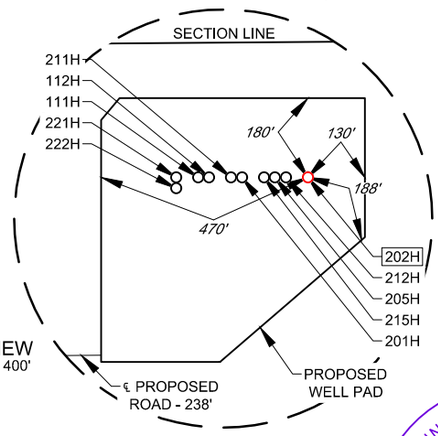
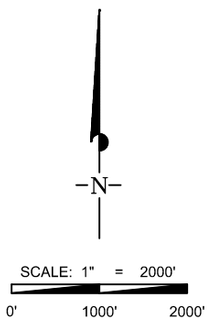
EXHIBIT 2A

SECTION 16, TOWNSHIP 26-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO





DETAIL VIEW
SCALE: 1" = 400'



LEASE NAME & WELL NO.: TALCO STATE FED COM 202H

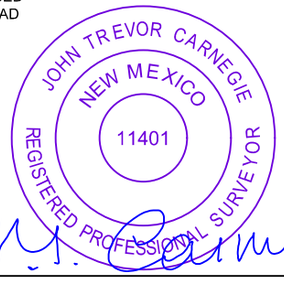
SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 308' FNL & 1490' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-205 & E NEVADA AVE. GO SOUTH ON NM-205 ±3.4 MILES, THENCE CONTINUE SOUTH ON FRYING PAN RD. ±4.4 MILES, THENCE WEST (RIGHT) ON BECKHAM RD. ±5.4 MILES, THENCE NORTHWEST (RIGHT) ON A LEASE RD. ±2.3 MILES, THENCE NORTH (RIGHT) ON A LEASE RD. ±1.2 MILES, THENCE EAST (RIGHT) ON A PROPOSED RD. ±238 FEET TO A POINT ±620 FEET SOUTHWEST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



John Trevor Carnegie, P.S. No. 11401

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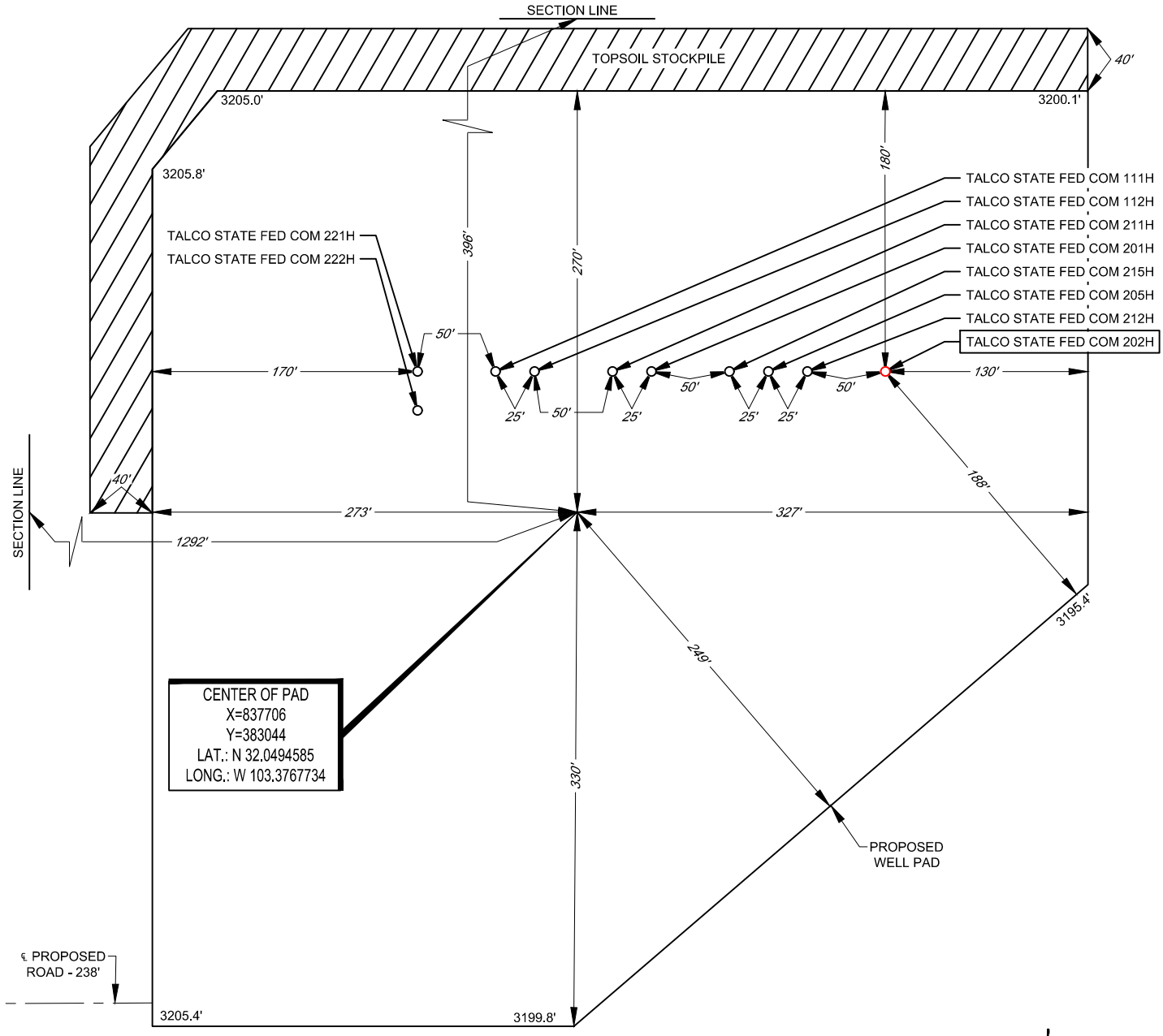
EXHIBIT 2B

LEGEND

SECTION LINE

PROPOSED ROAD

SECTION 16, TOWNSHIP 26-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: TALCO STATE FED COM 202H

202H LATITUDE N 32.0497016 202H LONGITUDE W 103.3761336

CENTER OF PAD IS 396' FNL & 1292' FWL

John Trevor Carnegie, P.S. No. 11401

N

SCALE: 1" = 100'

0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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 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 42520

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 42520
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/17/2021