

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NWNM0448921A

6. If Indian, Native, or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

TAP ROCK OPERATING LLC

Contact: REBECCA DEAL

E-Mail: Rebecca.Deal@dvn.com

8. Well Name and No.

TALCO 16-21 STATE FED COM 1H

9. API Well No.

30-025-46811-00-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

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

Sec 16 T26S R35E NWNW 301FNL 1194FWL
32.049721 N Lat, 103.377090 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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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

Devon Energy Production 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 212H ✓

New SHL will be 307 FNL and 1440 FWL of Sec16-T26S-R35E

New BHL will be 5 FSL and 1914 FWL of Sec21-T26S-R35E ✓

New Depth will be 12656 TVD AND 22990 MD

Resulting Formation will be Wolfcamp ✓

Surface OK. NM: 03/20/2020. DOI-BLM-NM-P020-2020-0125-EA. Same stipulations apply.
03/19/20 - Eng OK. Same cons apply. AM

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

Electronic Submission #507377 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 (20PP1712SE)

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

Title

Date

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

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 #507377 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 212H
 Tap Rock Operating, LLC
 SHL 307' FNL & 1440' FWL, Sec. 16
 BHL 5' FSL & 1914' 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	1595	1595	Salt	Salt
Base Salt	4940	4945		Salt
Lamar	5340	5346	Limestone	None
Bell Canyon	5360	5366	Sandstone	Hydrocarbons
Cherry Canyon	6560	6571	Sandstone	Hydrocarbons
Brushy Canyon	7795	7811	Sandstone	Hydrocarbons
Bone Spring	9240	9259	Limestone	Hydrocarbons
1st Bone Spring	10505	10524	Sandstone	Hydrocarbons
2nd Bone Spring	10670	10689	Sandstone	Hydrocarbons
3rd Bone Spring	11505	11524	Sandstone	Hydrocarbons
KOP	12092	12111	Sandstone	Hydrocarbons
Wolfcamp A	12460	12511	Shale	Hydrocarbons
TD	12656	22990	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:

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	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	5366	0	5360	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	5066	0	5060	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	5066	12011	5060	11992	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	11811	0	11792	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	11811	22990	11792	12656	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% NCI + LCM
1st Intermediate	Lead	0	1018	2.18	2218	12.7	65%	C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	4293	417	1.33	555	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	5066	363	2.22	806	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	11011	99	1.37	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	11311	1376	1.19	1637	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	5366	Brine Water	10.00	30-32	NC
Intermediate 2	5366	12011	FW/Cut Brine	9.00	30-32	NC
Production	12011	22990	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.



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7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 7,574$ psi. Expected bottom hole temperature is $\approx 170^{\circ}$ 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.

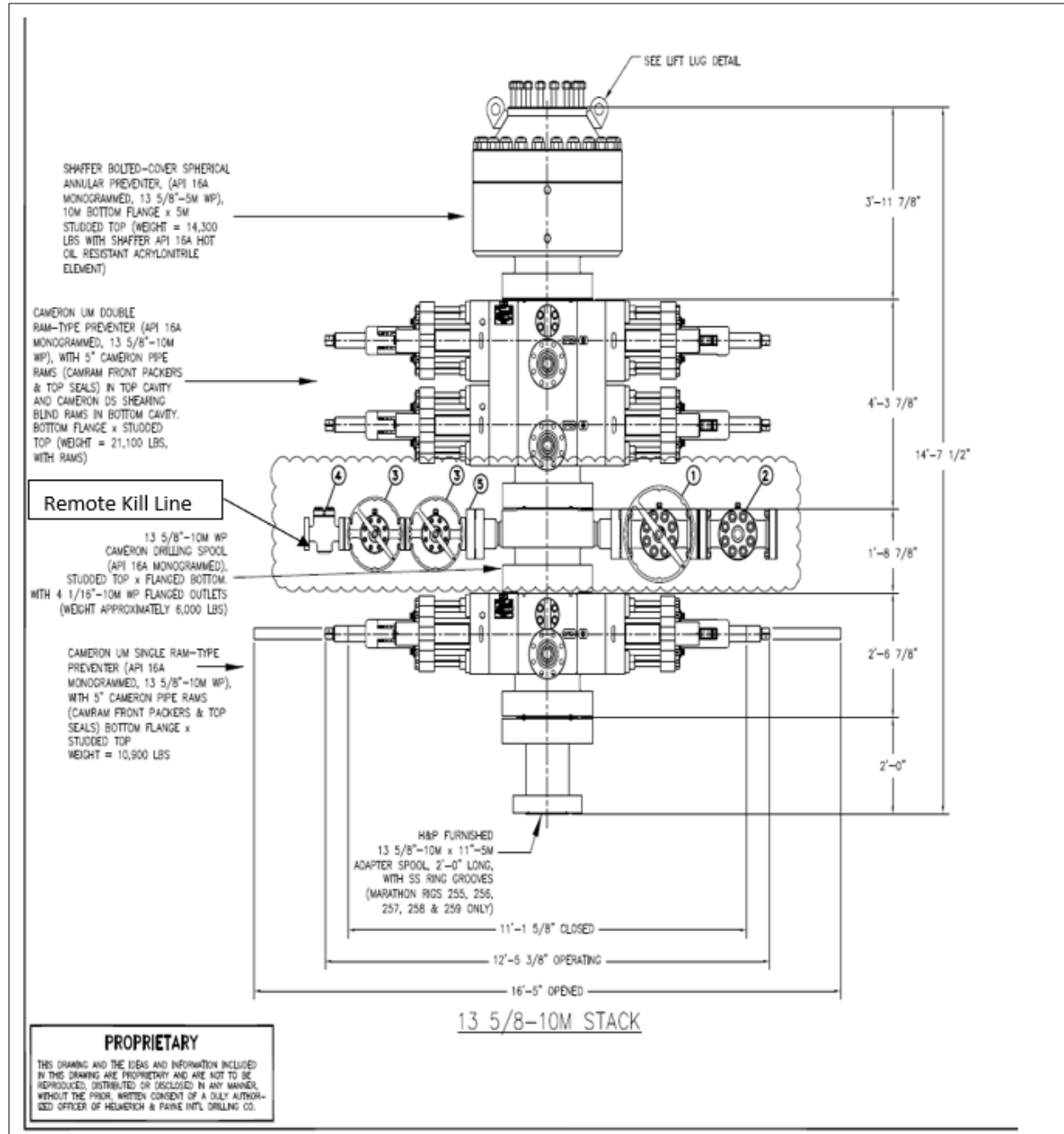
8. Other Information

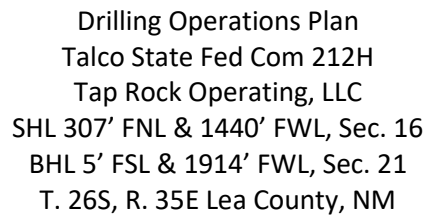
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



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10,000 psi BOP Stack

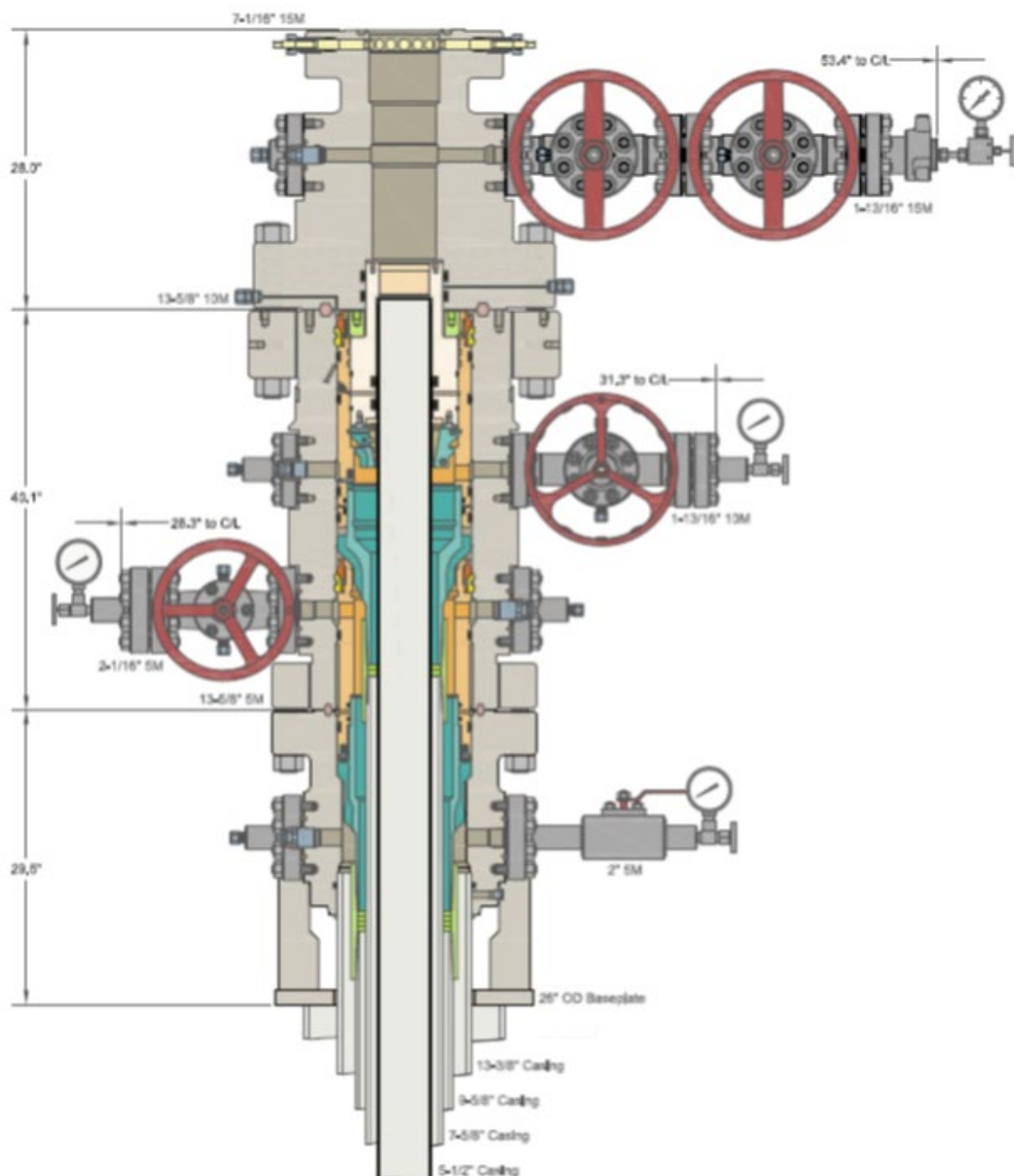






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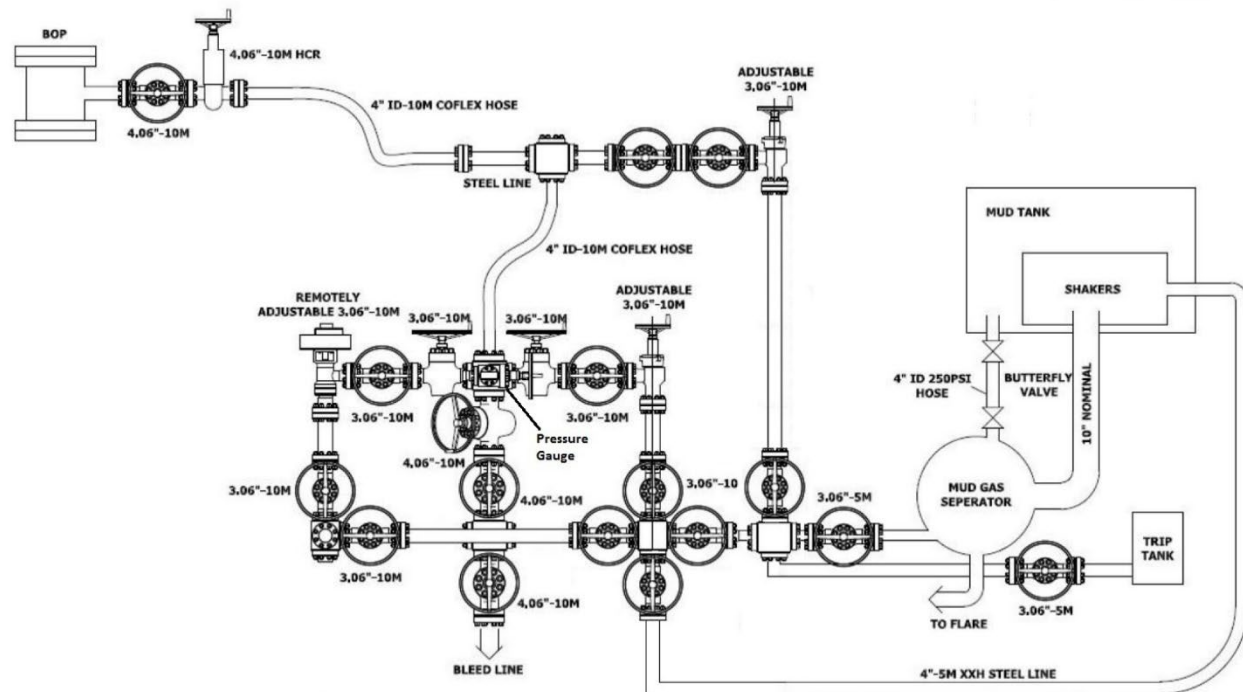
Multi-bowl Wellhead





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10M Choke Layout



Tap Rock Operating, LLC.

Lea County, NM (NAD83)

Talco State Fed Com

212H

OH

Plan: Plan #2

Standard Planning Report

28 February, 2020

Project	Lea County, NM (NAD83)		
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 State Fed Com		
Site Position:		Northing:	383,109.10 usft
From:	Lat/Long	Easting:	837,883.91 usft
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 58.680 N
		Longitude:	103° 22' 34.316 W
		Grid Convergence:	0.51 °

Well	212H		
Well Position	+N/-S	25.0 usft	Northing:
	+E/-W	-30.0 usft	Easting:
Position Uncertainty	2.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	1/13/2020	6.57
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,592.00497729

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.44

Plan Survey Tool Program	Date	2/28/2020		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	22,989.6 Plan #2 (OH)	MWD	
			MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,833.3	5.00	50.00	3,832.9	9.3	11.1	1.50	1.50	0.00	50.00	
8,633.3	5.00	50.00	8,614.6	278.3	331.6	0.00	0.00	0.00	0.00	
8,966.7	0.00	0.00	8,947.6	287.6	342.7	1.50	-1.50	0.00	180.00	
12,111.1	0.00	0.00	12,092.0	287.6	342.7	0.00	0.00	0.00	0.00	
13,011.7	90.05	168.90	12,665.0	-275.2	453.2	10.00	10.00	0.00	168.90	
13,275.2	90.05	179.44	12,664.8	-537.0	479.9	4.00	0.00	4.00	89.98	
22,895.1	90.05	179.44	12,656.0	-10,156.4	573.6	0.00	0.00	0.00	0.00	LTP_T212H
22,990.1	90.05	179.44	12,655.9	-10,251.4	574.5	0.00	0.00	0.00	0.00	PBHL_T212H

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
1,200.0	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
1,600.0	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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
3,600.0	1.50	50.00	3,600.0	0.8	1.0	-0.8	1.50	1.50	0.00
3,700.0	3.00	50.00	3,699.9	3.4	4.0	-3.3	1.50	1.50	0.00
3,800.0	4.50	50.00	3,799.7	7.6	9.0	-7.5	1.50	1.50	0.00
3,833.3	5.00	50.00	3,832.9	9.3	11.1	-9.2	1.50	1.50	0.00
Start 4800.0 hold at 3833.3 MD									
3,900.0	5.00	50.00	3,899.3	13.1	15.6	-12.9	0.00	0.00	0.00
4,000.0	5.00	50.00	3,998.9	18.7	22.3	-18.5	0.00	0.00	0.00
4,100.0	5.00	50.00	4,098.6	24.3	28.9	-24.0	0.00	0.00	0.00
4,200.0	5.00	50.00	4,198.2	29.9	35.6	-29.5	0.00	0.00	0.00
4,300.0	5.00	50.00	4,297.8	35.5	42.3	-35.1	0.00	0.00	0.00
4,400.0	5.00	50.00	4,397.4	41.1	49.0	-40.6	0.00	0.00	0.00
4,500.0	5.00	50.00	4,497.0	46.7	55.6	-46.1	0.00	0.00	0.00
4,600.0	5.00	50.00	4,596.7	52.3	62.3	-51.7	0.00	0.00	0.00
4,700.0	5.00	50.00	4,696.3	57.9	69.0	-57.2	0.00	0.00	0.00
4,800.0	5.00	50.00	4,795.9	63.5	75.7	-62.8	0.00	0.00	0.00
4,900.0	5.00	50.00	4,895.5	69.1	82.4	-68.3	0.00	0.00	0.00
5,000.0	5.00	50.00	4,995.1	74.7	89.0	-73.8	0.00	0.00	0.00
5,100.0	5.00	50.00	5,094.8	80.3	95.7	-79.4	0.00	0.00	0.00
5,200.0	5.00	50.00	5,194.4	85.9	102.4	-84.9	0.00	0.00	0.00
5,300.0	5.00	50.00	5,294.0	91.5	109.1	-90.4	0.00	0.00	0.00
5,400.0	5.00	50.00	5,393.6	97.1	115.7	-96.0	0.00	0.00	0.00
5,500.0	5.00	50.00	5,493.2	102.7	122.4	-101.5	0.00	0.00	0.00
5,600.0	5.00	50.00	5,592.9	108.3	129.1	-107.0	0.00	0.00	0.00
5,700.0	5.00	50.00	5,692.5	113.9	135.8	-112.6	0.00	0.00	0.00
5,800.0	5.00	50.00	5,792.1	119.5	142.4	-118.1	0.00	0.00	0.00
5,900.0	5.00	50.00	5,891.7	125.1	149.1	-123.7	0.00	0.00	0.00
6,000.0	5.00	50.00	5,991.3	130.7	155.8	-129.2	0.00	0.00	0.00
6,100.0	5.00	50.00	6,091.0	136.3	162.5	-134.7	0.00	0.00	0.00
6,200.0	5.00	50.00	6,190.6	141.9	169.1	-140.3	0.00	0.00	0.00
6,300.0	5.00	50.00	6,290.2	147.5	175.8	-145.8	0.00	0.00	0.00

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)
6,400.0	5.00	50.00	6,389.8	153.1	182.5	-151.3	0.00	0.00	0.00
6,500.0	5.00	50.00	6,489.4	158.7	189.2	-156.9	0.00	0.00	0.00
6,600.0	5.00	50.00	6,589.0	164.3	195.9	-162.4	0.00	0.00	0.00
6,700.0	5.00	50.00	6,688.7	169.9	202.5	-168.0	0.00	0.00	0.00
6,800.0	5.00	50.00	6,788.3	175.5	209.2	-173.5	0.00	0.00	0.00
6,900.0	5.00	50.00	6,887.9	181.1	215.9	-179.0	0.00	0.00	0.00
7,000.0	5.00	50.00	6,987.5	186.7	222.6	-184.6	0.00	0.00	0.00
7,100.0	5.00	50.00	7,087.1	192.4	229.2	-190.1	0.00	0.00	0.00
7,200.0	5.00	50.00	7,186.8	198.0	235.9	-195.6	0.00	0.00	0.00
7,300.0	5.00	50.00	7,286.4	203.6	242.6	-201.2	0.00	0.00	0.00
7,400.0	5.00	50.00	7,386.0	209.2	249.3	-206.7	0.00	0.00	0.00
7,500.0	5.00	50.00	7,485.6	214.8	255.9	-212.2	0.00	0.00	0.00
7,600.0	5.00	50.00	7,585.2	220.4	262.6	-217.8	0.00	0.00	0.00
7,700.0	5.00	50.00	7,684.9	226.0	269.3	-223.3	0.00	0.00	0.00
7,800.0	5.00	50.00	7,784.5	231.6	276.0	-228.9	0.00	0.00	0.00
7,900.0	5.00	50.00	7,884.1	237.2	282.6	-234.4	0.00	0.00	0.00
8,000.0	5.00	50.00	7,983.7	242.8	289.3	-239.9	0.00	0.00	0.00
8,100.0	5.00	50.00	8,083.3	248.4	296.0	-245.5	0.00	0.00	0.00
8,200.0	5.00	50.00	8,183.0	254.0	302.7	-251.0	0.00	0.00	0.00
8,300.0	5.00	50.00	8,282.6	259.6	309.4	-256.5	0.00	0.00	0.00
8,400.0	5.00	50.00	8,382.2	265.2	316.0	-262.1	0.00	0.00	0.00
8,500.0	5.00	50.00	8,481.8	270.8	322.7	-267.6	0.00	0.00	0.00
8,600.0	5.00	50.00	8,581.4	276.4	329.4	-273.2	0.00	0.00	0.00
8,633.3	5.00	50.00	8,614.6	278.3	331.6	-275.0	0.00	0.00	0.00
Start Drop -1.50									
8,700.0	4.00	50.00	8,681.1	281.6	335.6	-278.3	1.50	-1.50	0.00
8,800.0	2.50	50.00	8,780.9	285.3	340.0	-281.9	1.50	-1.50	0.00
8,900.0	1.00	50.00	8,880.9	287.2	342.3	-283.9	1.50	-1.50	0.00
8,966.7	0.00	0.00	8,947.6	287.6	342.7	-284.2	1.50	-1.50	0.00
Start 3144.4 hold at 8966.7 MD									
9,000.0	0.00	0.00	8,980.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,080.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,180.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,280.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,380.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,480.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,580.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,680.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,780.9	287.6	342.7	-284.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,880.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,980.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,080.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,180.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,280.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,380.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,480.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,580.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,680.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,780.9	287.6	342.7	-284.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,880.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,980.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,080.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,180.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,280.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,380.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,480.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,580.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,680.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,780.9	287.6	342.7	-284.2	0.00	0.00	0.00
11,900.0	0.00	0.00	11,880.9	287.6	342.7	-284.2	0.00	0.00	0.00
12,000.0	0.00	0.00	11,980.9	287.6	342.7	-284.2	0.00	0.00	0.00
12,100.0	0.00	0.00	12,080.9	287.6	342.7	-284.2	0.00	0.00	0.00
12,111.1	0.00	0.00	12,092.0	287.6	342.7	-284.2	0.00	0.00	0.00
Start Build 10.00									
12,150.0	3.89	168.90	12,130.9	286.3	343.0	-282.9	10.00	10.00	0.00
12,200.0	8.89	168.90	12,180.5	280.8	344.1	-277.5	10.00	10.00	0.00

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)
12,250.0	13.89	168.90	12,229.5	271.2	346.0	-267.8	10.00	10.00	0.00
12,300.0	18.89	168.90	12,277.5	257.3	348.7	-253.9	10.00	10.00	0.00
12,350.0	23.89	168.90	12,324.0	239.4	352.2	-236.0	10.00	10.00	0.00
12,400.0	28.89	168.90	12,368.8	217.6	356.5	-214.1	10.00	10.00	0.00
12,450.0	33.89	168.90	12,411.5	192.1	361.5	-188.5	10.00	10.00	0.00
12,500.0	38.89	168.90	12,451.7	163.0	367.2	-159.4	10.00	10.00	0.00
12,550.0	43.89	168.90	12,489.2	130.6	373.6	-126.9	10.00	10.00	0.00
12,600.0	48.89	168.90	12,523.7	95.1	380.5	-91.3	10.00	10.00	0.00
12,650.0	53.88	168.90	12,554.9	56.7	388.0	-52.9	10.00	10.00	0.00
12,700.0	58.88	168.90	12,582.6	15.9	396.1	-12.0	10.00	10.00	0.00
12,750.0	63.88	168.90	12,606.5	-27.2	404.5	31.1	10.00	10.00	0.00
12,800.0	68.88	168.90	12,626.5	-72.1	413.3	76.2	10.00	10.00	0.00
12,850.0	73.88	168.90	12,642.5	-118.6	422.4	122.7	10.00	10.00	0.00
12,900.0	78.88	168.90	12,654.2	-166.3	431.8	170.5	10.00	10.00	0.00
12,950.0	83.88	168.90	12,661.7	-214.8	441.3	219.1	10.00	10.00	0.00
13,000.0	88.88	168.90	12,664.9	-263.7	450.9	268.1	10.00	10.00	0.00
13,011.7	90.05	168.90	12,665.0	-275.2	453.2	279.6	10.00	10.00	0.00
Start DLS 4.00 TFO 89.98									
13,100.0	90.05	172.43	12,664.9	-362.3	467.5	366.9	4.00	0.00	4.00
13,200.0	90.05	176.43	12,664.8	-461.8	477.2	466.5	4.00	0.00	4.00
13,275.2	90.05	179.44	12,664.8	-537.0	479.9	541.7	4.00	0.00	4.00
Start 9619.9 hold at 13275.2 MD									
13,300.0	90.05	179.44	12,664.7	-561.8	480.1	566.4	0.00	0.00	0.00
13,400.0	90.05	179.44	12,664.7	-661.8	481.1	666.4	0.00	0.00	0.00
13,500.0	90.05	179.44	12,664.6	-761.8	482.1	766.4	0.00	0.00	0.00
13,600.0	90.05	179.44	12,664.5	-861.8	483.0	866.4	0.00	0.00	0.00
13,700.0	90.05	179.44	12,664.4	-961.7	484.0	966.4	0.00	0.00	0.00
13,800.0	90.05	179.44	12,664.3	-1,061.7	485.0	1,066.4	0.00	0.00	0.00
13,900.0	90.05	179.44	12,664.2	-1,161.7	486.0	1,166.4	0.00	0.00	0.00
14,000.0	90.05	179.44	12,664.1	-1,261.7	486.9	1,266.4	0.00	0.00	0.00
14,100.0	90.05	179.44	12,664.0	-1,361.7	487.9	1,366.4	0.00	0.00	0.00
14,200.0	90.05	179.44	12,663.9	-1,461.7	488.9	1,466.4	0.00	0.00	0.00
14,300.0	90.05	179.44	12,663.8	-1,561.7	489.9	1,566.4	0.00	0.00	0.00
14,400.0	90.05	179.44	12,663.7	-1,661.7	490.8	1,666.4	0.00	0.00	0.00
14,500.0	90.05	179.44	12,663.6	-1,761.7	491.8	1,766.4	0.00	0.00	0.00
14,600.0	90.05	179.44	12,663.6	-1,861.7	492.8	1,866.4	0.00	0.00	0.00
14,700.0	90.05	179.44	12,663.5	-1,961.7	493.8	1,966.4	0.00	0.00	0.00
14,800.0	90.05	179.44	12,663.4	-2,061.7	494.7	2,066.4	0.00	0.00	0.00
14,900.0	90.05	179.44	12,663.3	-2,161.7	495.7	2,166.4	0.00	0.00	0.00
15,000.0	90.05	179.44	12,663.2	-2,261.7	496.7	2,266.4	0.00	0.00	0.00
15,100.0	90.05	179.44	12,663.1	-2,361.7	497.7	2,366.4	0.00	0.00	0.00
15,200.0	90.05	179.44	12,663.0	-2,461.7	498.6	2,466.4	0.00	0.00	0.00
15,300.0	90.05	179.44	12,662.9	-2,561.7	499.6	2,566.4	0.00	0.00	0.00
15,400.0	90.05	179.44	12,662.8	-2,661.7	500.6	2,666.4	0.00	0.00	0.00
15,500.0	90.05	179.44	12,662.7	-2,761.7	501.5	2,766.4	0.00	0.00	0.00
15,600.0	90.05	179.44	12,662.6	-2,861.7	502.5	2,866.4	0.00	0.00	0.00
15,700.0	90.05	179.44	12,662.6	-2,961.7	503.5	2,966.4	0.00	0.00	0.00
15,800.0	90.05	179.44	12,662.5	-3,061.6	504.5	3,066.4	0.00	0.00	0.00
15,900.0	90.05	179.44	12,662.4	-3,161.6	505.4	3,166.4	0.00	0.00	0.00
16,000.0	90.05	179.44	12,662.3	-3,261.6	506.4	3,266.4	0.00	0.00	0.00
16,100.0	90.05	179.44	12,662.2	-3,361.6	507.4	3,366.4	0.00	0.00	0.00
16,200.0	90.05	179.44	12,662.1	-3,461.6	508.4	3,466.4	0.00	0.00	0.00
16,300.0	90.05	179.44	12,662.0	-3,561.6	509.3	3,566.4	0.00	0.00	0.00
16,400.0	90.05	179.44	12,661.9	-3,661.6	510.3	3,666.4	0.00	0.00	0.00
16,500.0	90.05	179.44	12,661.8	-3,761.6	511.3	3,766.4	0.00	0.00	0.00
16,600.0	90.05	179.44	12,661.7	-3,861.6	512.3	3,866.4	0.00	0.00	0.00
16,700.0	90.05	179.44	12,661.6	-3,961.6	513.2	3,966.4	0.00	0.00	0.00
16,800.0	90.05	179.44	12,661.6	-4,061.6	514.2	4,066.4	0.00	0.00	0.00
16,900.0	90.05	179.44	12,661.5	-4,161.6	515.2	4,166.4	0.00	0.00	0.00
17,000.0	90.05	179.44	12,661.4	-4,261.6	516.2	4,266.4	0.00	0.00	0.00
17,100.0	90.05	179.44	12,661.3	-4,361.6	517.1	4,366.4	0.00	0.00	0.00
17,200.0	90.05	179.44	12,661.2	-4,461.6	518.1	4,466.4	0.00	0.00	0.00
17,300.0	90.05	179.44	12,661.1	-4,561.6	519.1	4,566.4	0.00	0.00	0.00
17,400.0	90.05	179.44	12,661.0	-4,661.6	520.1	4,666.4	0.00	0.00	0.00
17,500.0	90.05	179.44	12,660.9	-4,761.6	521.0	4,766.4	0.00	0.00	0.00
17,600.0	90.05	179.44	12,660.8	-4,861.6	522.0	4,866.4	0.00	0.00	0.00

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)
17,700.0	90.05	179.44	12,660.7	-4,961.6	523.0	4,966.4	0.00	0.00	0.00
17,800.0	90.05	179.44	12,660.6	-5,061.5	523.9	5,066.4	0.00	0.00	0.00
17,900.0	90.05	179.44	12,660.6	-5,161.5	524.9	5,166.4	0.00	0.00	0.00
18,000.0	90.05	179.44	12,660.5	-5,261.5	525.9	5,266.4	0.00	0.00	0.00
18,100.0	90.05	179.44	12,660.4	-5,361.5	526.9	5,366.4	0.00	0.00	0.00
18,200.0	90.05	179.44	12,660.3	-5,461.5	527.8	5,466.4	0.00	0.00	0.00
18,300.0	90.05	179.44	12,660.2	-5,561.5	528.8	5,566.4	0.00	0.00	0.00
18,400.0	90.05	179.44	12,660.1	-5,661.5	529.8	5,666.4	0.00	0.00	0.00
18,500.0	90.05	179.44	12,660.0	-5,761.5	530.8	5,766.4	0.00	0.00	0.00
18,600.0	90.05	179.44	12,659.9	-5,861.5	531.7	5,866.4	0.00	0.00	0.00
18,700.0	90.05	179.44	12,659.8	-5,961.5	532.7	5,966.4	0.00	0.00	0.00
18,800.0	90.05	179.44	12,659.7	-6,061.5	533.7	6,066.4	0.00	0.00	0.00
18,900.0	90.05	179.44	12,659.6	-6,161.5	534.7	6,166.4	0.00	0.00	0.00
19,000.0	90.05	179.44	12,659.5	-6,261.5	535.6	6,266.4	0.00	0.00	0.00
19,100.0	90.05	179.44	12,659.5	-6,361.5	536.6	6,366.4	0.00	0.00	0.00
19,200.0	90.05	179.44	12,659.4	-6,461.5	537.6	6,466.4	0.00	0.00	0.00
19,300.0	90.05	179.44	12,659.3	-6,561.5	538.6	6,566.4	0.00	0.00	0.00
19,400.0	90.05	179.44	12,659.2	-6,661.5	539.5	6,666.4	0.00	0.00	0.00
19,500.0	90.05	179.44	12,659.1	-6,761.5	540.5	6,766.4	0.00	0.00	0.00
19,600.0	90.05	179.44	12,659.0	-6,861.5	541.5	6,866.4	0.00	0.00	0.00
19,700.0	90.05	179.44	12,658.9	-6,961.5	542.4	6,966.4	0.00	0.00	0.00
19,800.0	90.05	179.44	12,658.8	-7,061.5	543.4	7,066.4	0.00	0.00	0.00
19,900.0	90.05	179.44	12,658.7	-7,161.4	544.4	7,166.4	0.00	0.00	0.00
20,000.0	90.05	179.44	12,658.6	-7,261.4	545.4	7,266.4	0.00	0.00	0.00
20,100.0	90.05	179.44	12,658.5	-7,361.4	546.3	7,366.4	0.00	0.00	0.00
20,200.0	90.05	179.44	12,658.5	-7,461.4	547.3	7,466.4	0.00	0.00	0.00
20,300.0	90.05	179.44	12,658.4	-7,561.4	548.3	7,566.4	0.00	0.00	0.00
20,400.0	90.05	179.44	12,658.3	-7,661.4	549.3	7,666.4	0.00	0.00	0.00
20,500.0	90.05	179.44	12,658.2	-7,761.4	550.2	7,766.4	0.00	0.00	0.00
20,600.0	90.05	179.44	12,658.1	-7,861.4	551.2	7,866.4	0.00	0.00	0.00
20,700.0	90.05	179.44	12,658.0	-7,961.4	552.2	7,966.4	0.00	0.00	0.00
20,800.0	90.05	179.44	12,657.9	-8,061.4	553.2	8,066.4	0.00	0.00	0.00
20,900.0	90.05	179.44	12,657.8	-8,161.4	554.1	8,166.4	0.00	0.00	0.00
21,000.0	90.05	179.44	12,657.7	-8,261.4	555.1	8,266.4	0.00	0.00	0.00
21,100.0	90.05	179.44	12,657.6	-8,361.4	556.1	8,366.4	0.00	0.00	0.00
21,200.0	90.05	179.44	12,657.5	-8,461.4	557.1	8,466.4	0.00	0.00	0.00
21,300.0	90.05	179.44	12,657.5	-8,561.4	558.0	8,566.4	0.00	0.00	0.00
21,400.0	90.05	179.44	12,657.4	-8,661.4	559.0	8,666.4	0.00	0.00	0.00
21,500.0	90.05	179.44	12,657.3	-8,761.4	560.0	8,766.4	0.00	0.00	0.00
21,600.0	90.05	179.44	12,657.2	-8,861.4	561.0	8,866.4	0.00	0.00	0.00
21,700.0	90.05	179.44	12,657.1	-8,961.4	561.9	8,966.4	0.00	0.00	0.00
21,800.0	90.05	179.44	12,657.0	-9,061.4	562.9	9,066.4	0.00	0.00	0.00
21,900.0	90.05	179.44	12,656.9	-9,161.4	563.9	9,166.4	0.00	0.00	0.00
22,000.0	90.05	179.44	12,656.8	-9,261.3	564.8	9,266.4	0.00	0.00	0.00
22,100.0	90.05	179.44	12,656.7	-9,361.3	565.8	9,366.4	0.00	0.00	0.00
22,200.0	90.05	179.44	12,656.6	-9,461.3	566.8	9,466.4	0.00	0.00	0.00
22,300.0	90.05	179.44	12,656.5	-9,561.3	567.8	9,566.4	0.00	0.00	0.00
22,400.0	90.05	179.44	12,656.5	-9,661.3	568.7	9,666.4	0.00	0.00	0.00
22,500.0	90.05	179.44	12,656.4	-9,761.3	569.7	9,766.4	0.00	0.00	0.00
22,600.0	90.05	179.44	12,656.3	-9,861.3	570.7	9,866.4	0.00	0.00	0.00
22,700.0	90.05	179.44	12,656.2	-9,961.3	571.7	9,966.4	0.00	0.00	0.00
22,800.0	90.05	179.44	12,656.1	-10,061.3	572.6	10,066.4	0.00	0.00	0.00
22,895.1	90.05	179.44	12,656.0	-10,156.4	573.6	10,161.5	0.00	0.00	0.00
Start 95.0 hold at 22895.1 MD									
22,900.0	90.05	179.44	12,656.0	-10,161.3	573.6	10,166.4	0.00	0.00	0.00
22,990.1	90.05	179.44	12,655.9	-10,251.4	574.5	10,256.5	0.00	0.00	0.00
TD at 22990.1									

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
PBHL_T212H - plan hits target center - Point	0.00	0.01	12,655.9	-10,251.4	574.5	372,882.71	838,428.41	32° 1' 17.442 N	103° 22' 29.044 W
LTP_T212H - plan hits target center - Point	0.00	0.01	12,656.0	-10,156.4	573.6	372,977.69	838,427.48	32° 1' 18.382 N	103° 22' 29.045 W
FTP_T212H - plan misses target center by 203.4usft at 12613.0usft MD (12532.1 TVD, 85.3 N, 382.4 E) - Point	0.00	0.00	12,665.0	211.0	471.6	383,345.08	838,325.51	32° 3' 0.976 N	103° 22' 29.161 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,025.0	1,025.0	Rustler Anhydrite				
1,595.0	1,595.0	Top Salt				
4,944.7	4,940.0	Base Salt				
5,331.1	5,325.0	Delaware Mountain Gp				
5,346.2	5,340.0	Lamar				
5,366.3	5,360.0	Bell Canyon				
5,391.4	5,385.0	Ramsey Sand				
6,570.8	6,560.0	Cherry Canyon				
7,810.6	7,795.0	Brushy Canyon				
9,259.1	9,240.0	Bone Spring Lime				
9,289.1	9,270.0	Upper Avalon				
9,684.1	9,665.0	Middle Avalon				
10,014.1	9,995.0	Lower Avalon				
10,524.1	10,505.0	1st Bone Spring Sand				
10,689.1	10,670.0	2nd Bone Spring Carb				
11,039.1	11,020.0	2nd Bone Spring Sand				
11,524.1	11,505.0	3rd Bone Spring Carb				
12,164.2	12,145.0	3rd Bone Spring Sand				
12,436.3	12,400.0	3rd BS W Sand				
12,510.7	12,460.0	Wolfcamp A X Sand				
12,617.5	12,535.0	Wolfcamp A Y Sand				
12,795.8	12,625.0	Wolfcamp A Lower				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,500.0	3,500.0	0.0	0.0	Start Build 1.50	
3,833.3	3,832.9	9.3	11.1	Start 4800.0 hold at 3833.3 MD	
8,633.3	8,614.6	278.3	331.6	Start Drop -1.50	
8,966.7	8,947.6	287.6	342.7	Start 3144.4 hold at 8966.7 MD	
12,111.1	12,092.0	287.6	342.7	Start Build 10.00	
13,011.7	12,665.0	-275.2	453.2	Start DLS 4.00 TFO 89.98	
13,275.2	12,664.8	-537.0	479.9	Start 9619.9 hold at 13275.2 MD	
22,895.1	12,656.0	-10,156.4	573.6	Start 95.0 hold at 22895.1 MD	
22,990.1	12,655.9	-10,251.4	574.5	TD at 22990.1	

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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 30-025-46811	² Pool Code 98117	³ Pool Name WC-025 G-09 S263504N;WOLFCAMP
⁴ Property Code 329955	⁵ Property Name TALCO STATE FED COM	⁶ Well Number 212H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3198'

¹⁰Surface Location

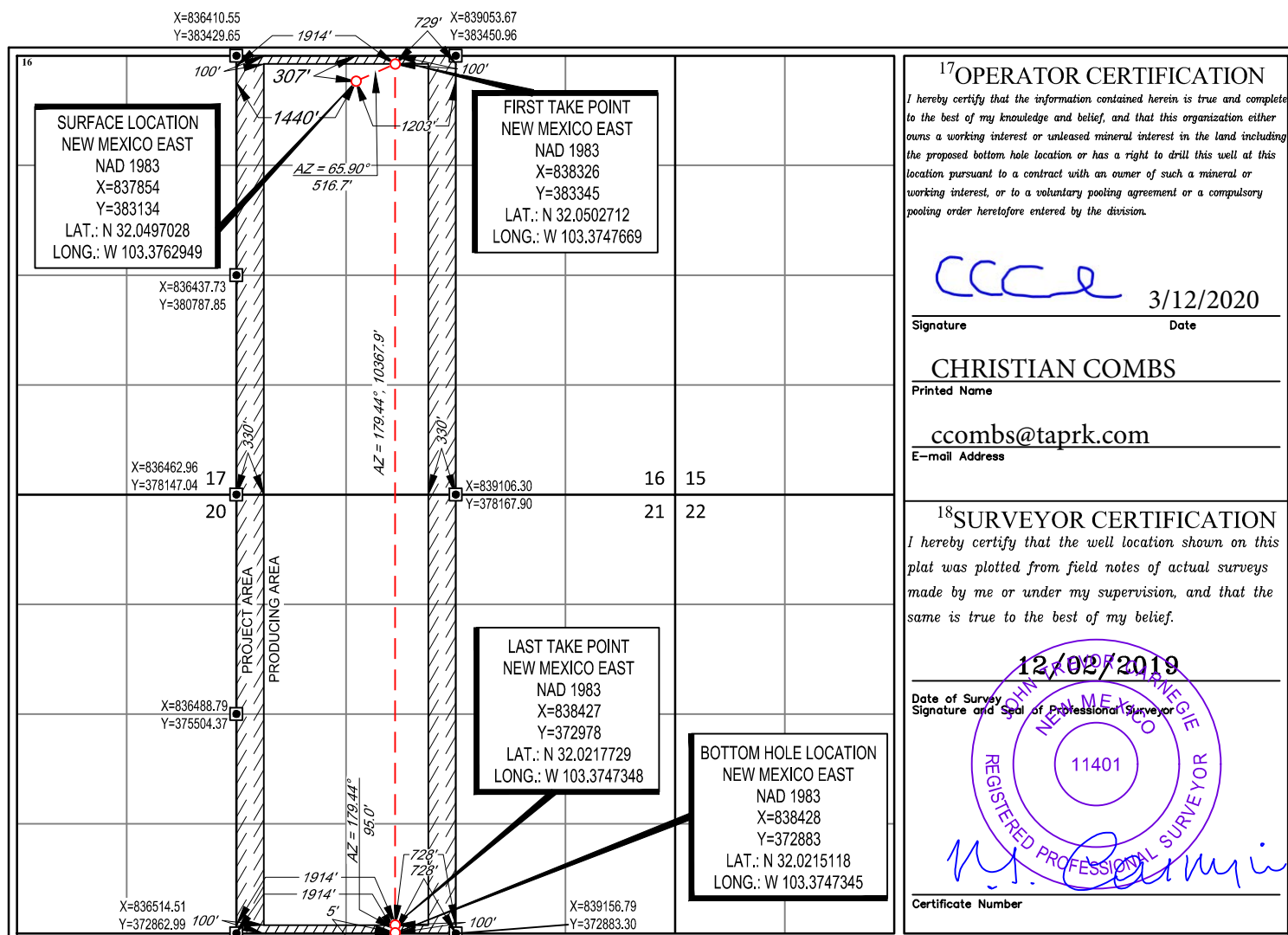
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	16	26-S	35-E	-	307'	NORTH	1440'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

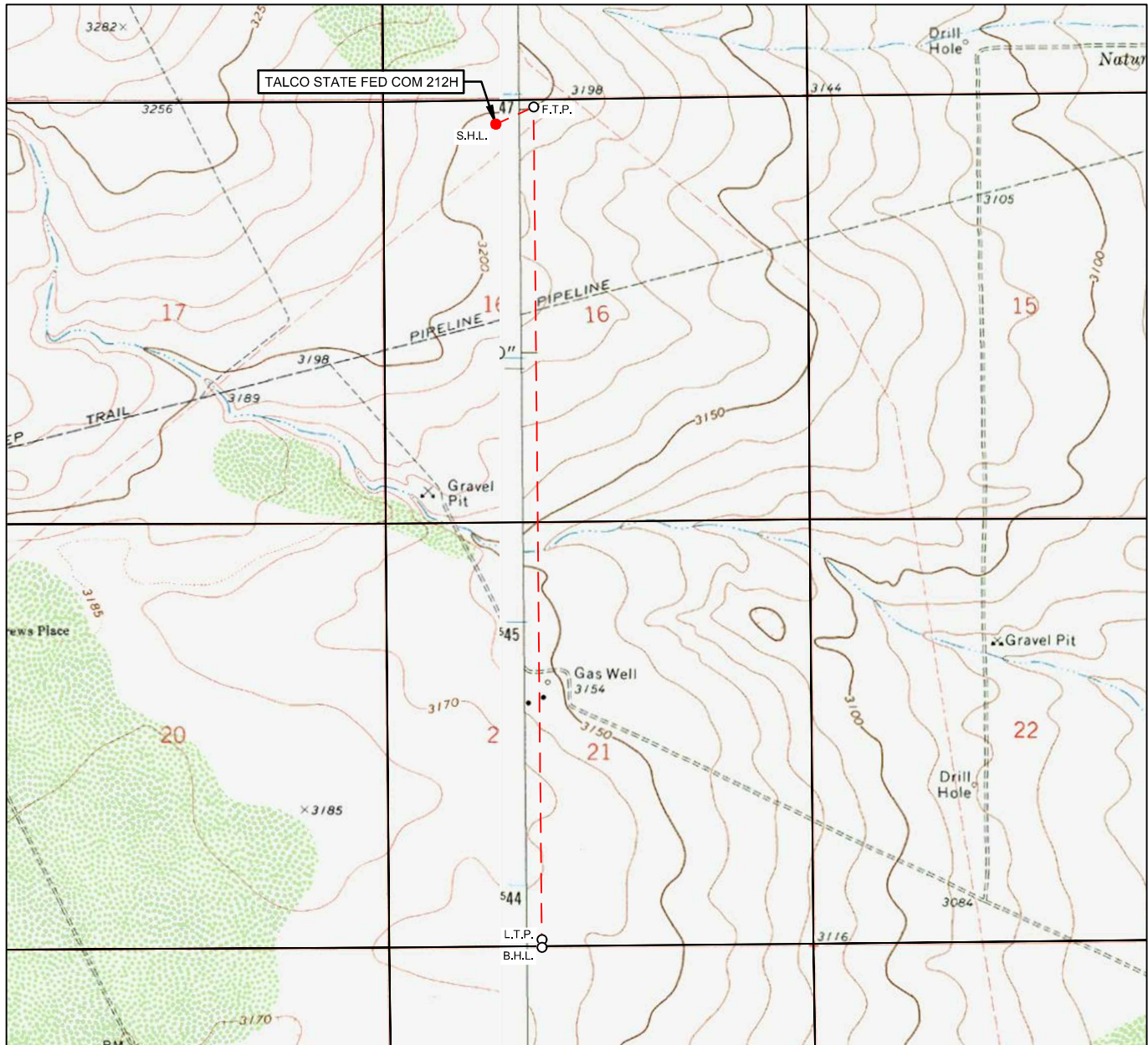
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	26-S	35-E	-	5'	SOUTH	1914'	WEST	LEA

¹² Dedicated Acres	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.



LOCATION & ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: TALCO STATE FED COM 212H

SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3198'
 DESCRIPTION 307' FNL & 1440' FWL

LATITUDE N 32.0497028 LONGITUDE W 103.3762949

SCALE: 1" = 2000'
 0' 1000' 2000'

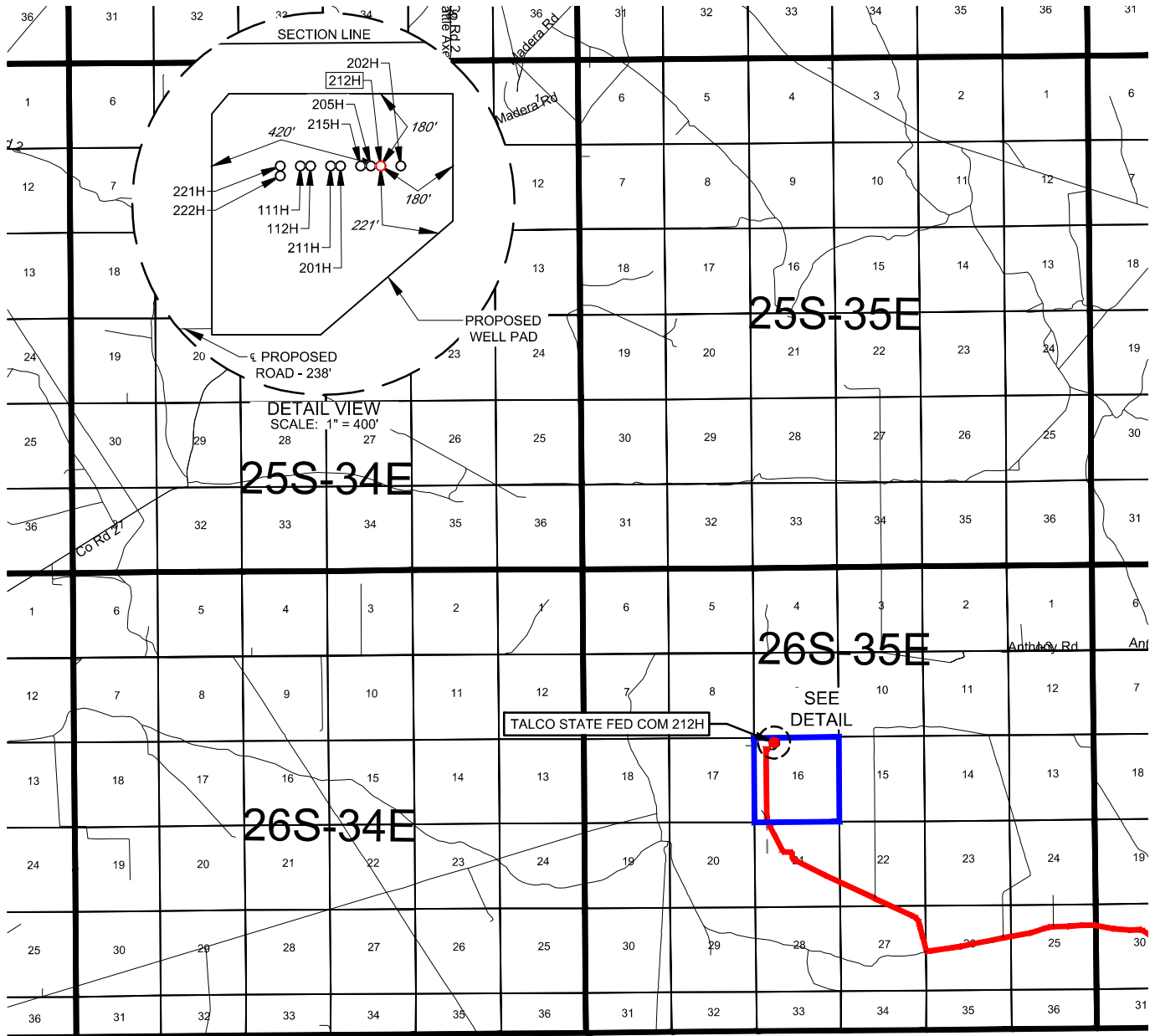
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

LEASE NAME & WELL NO.: TALCO STATE FED COM 212H

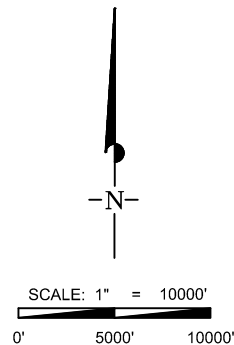
SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 307' FNL & 1440' FWL

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 ±584
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.

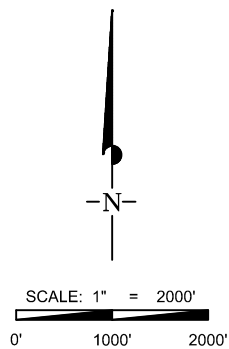
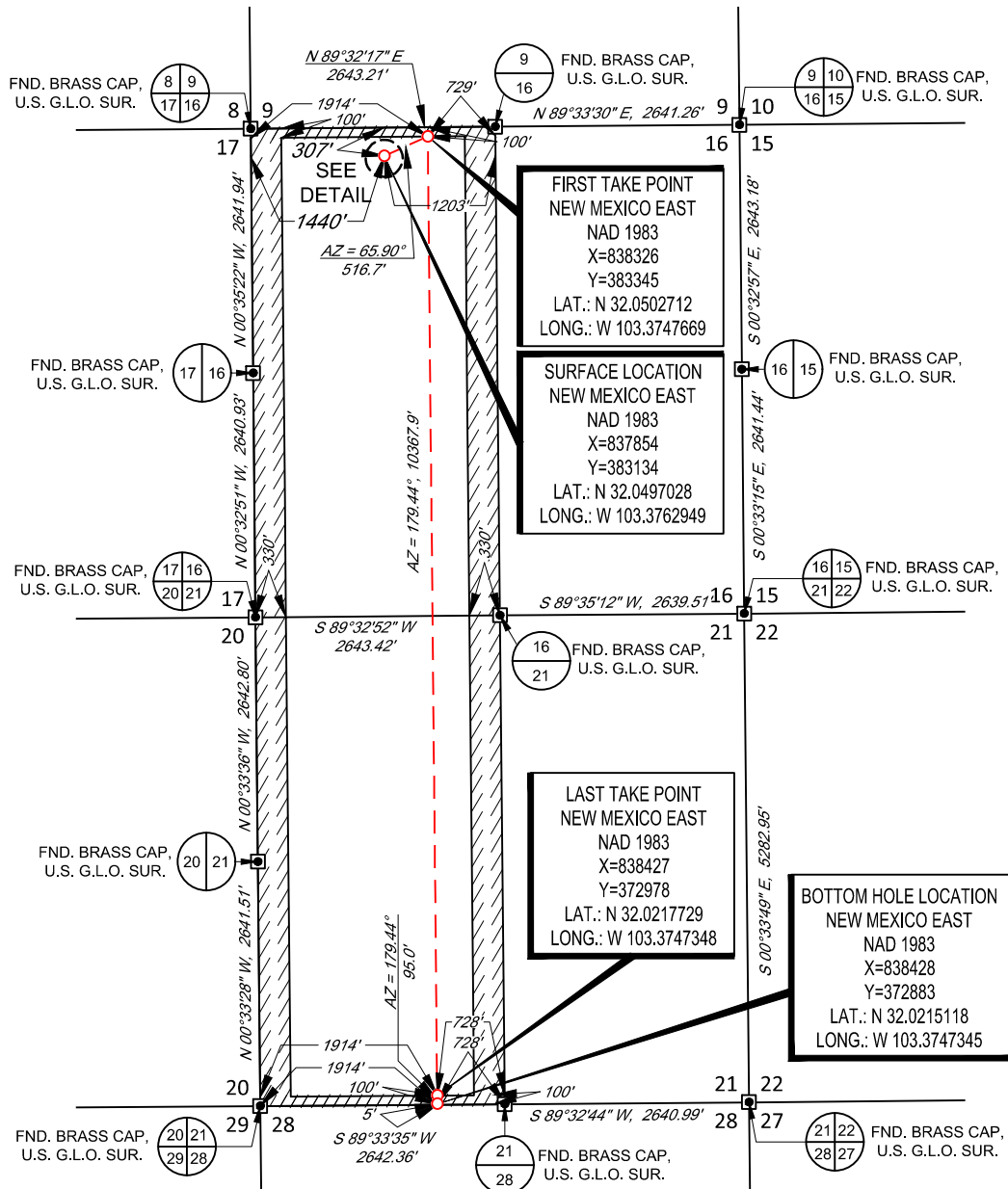


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TAP
ROCK
EXHIBIT 2A

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



LEASE NAME & WELL NO.: TALCO STATE FED COM 212H

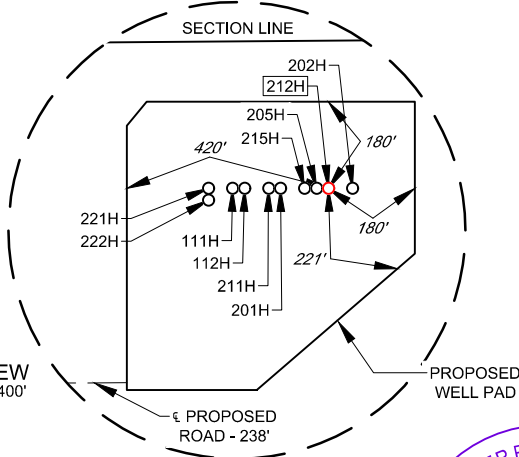
SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 307' FNL & 1440' FWL

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 ±584 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.



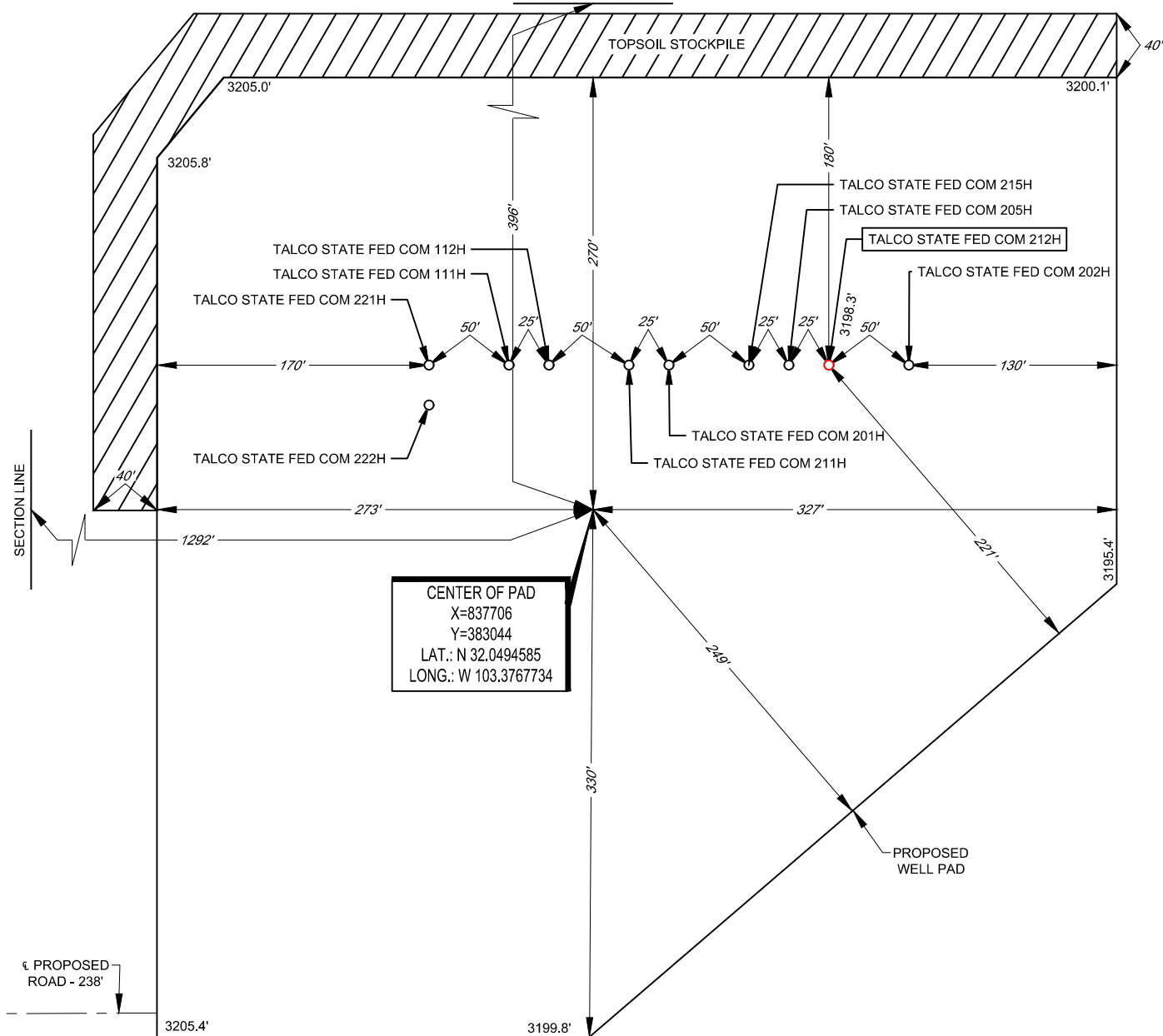
JOHN TREVOR CARNEGIE
NEW MEXICO
11401
REGISTERED PROFESSIONAL SURVEYOR

John Trevor Carnegie, P.S. No. 11401

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
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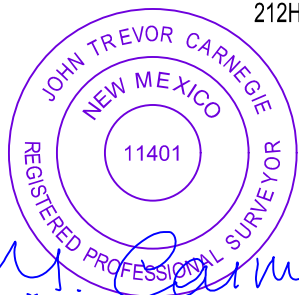
SECTION LINE



LEASE NAME & WELL NO.: TALCO STATE FED COM 212H

212H LATITUDE N 32.0497028 212H LONGITUDE W 103.3762949

CENTER OF PAD IS 396' FNL & 1292' FWL



John Trevor Carnegie, P.S. No. 11401

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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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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 42519

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 42519
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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