

Well Name: TALCO STATE FED COM	Well Location: T26S / R35E / SEC 16 / NWNW /	County or Parish/State:
Well Number: 111H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0448921A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548605	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Notice of Intent

Sundry ID: 2652427

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/13/2022

Date proposed operation will begin: 03/17/2022

Type of Action: Other

Time Sundry Submitted: 10:20

Procedure Description: For the referenced well, Tap Rock requests: 1. To change the SHL to: 435' FNL – 1188' FWL, NWNW (Lot D) Section 16, T26S-R35E, Lea County, NM 2. To change the BHL to: 5' FSL – 331' FWL, SWSW (Lot M) Section 21, T26S-R35E, Lea County, NM 3. Approval to have the option to drill 8-3/4 inch OH size from Intermediate Casing Point down to KOP, then drill 6-3/4 inch OH or 7-7/8 inch OH from KOP to planned production TD depth. See attached updated plat, drilling and directional plans

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- APD_Drilling_Plan___Talco_Fed_Com_111_01_12_22_20220406140620.pdf
- Talco_State_Fed_Com_111H_Plan_2_20220113101923.pdf
- LO_TALCO_STATE_FED_COM_111H_REV3_SIGNED_20220113101851.pdf

Well Name: TALCO STATE FED COM	Well Location: T26S / R35E / SEC 16 / NWNW /	County or Parish/State:
Well Number: 111H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0448921A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548605	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: JEFFREY TRLICA	Signed on: APR 06, 2022 02:06 PM
Name: TAP ROCK OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 523 PARK POINT DRIVE SUITE 200	
City: GOLDEN	State: CO
Phone: (720) 772-5910	
Email address: JTRLICA@TAPRK.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: Cody Layton	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 04/21/2022
Signature: Cody R. Layton	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48605	² Pool Code 98143	³ Pool Name WC-025 G-09 S263527D; BONE SPRING
⁴ Property Code 329955	⁵ Property Name TALCO STATE FED COM	
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 111H ⁹ Elevation 3201'

¹⁰Surface Location

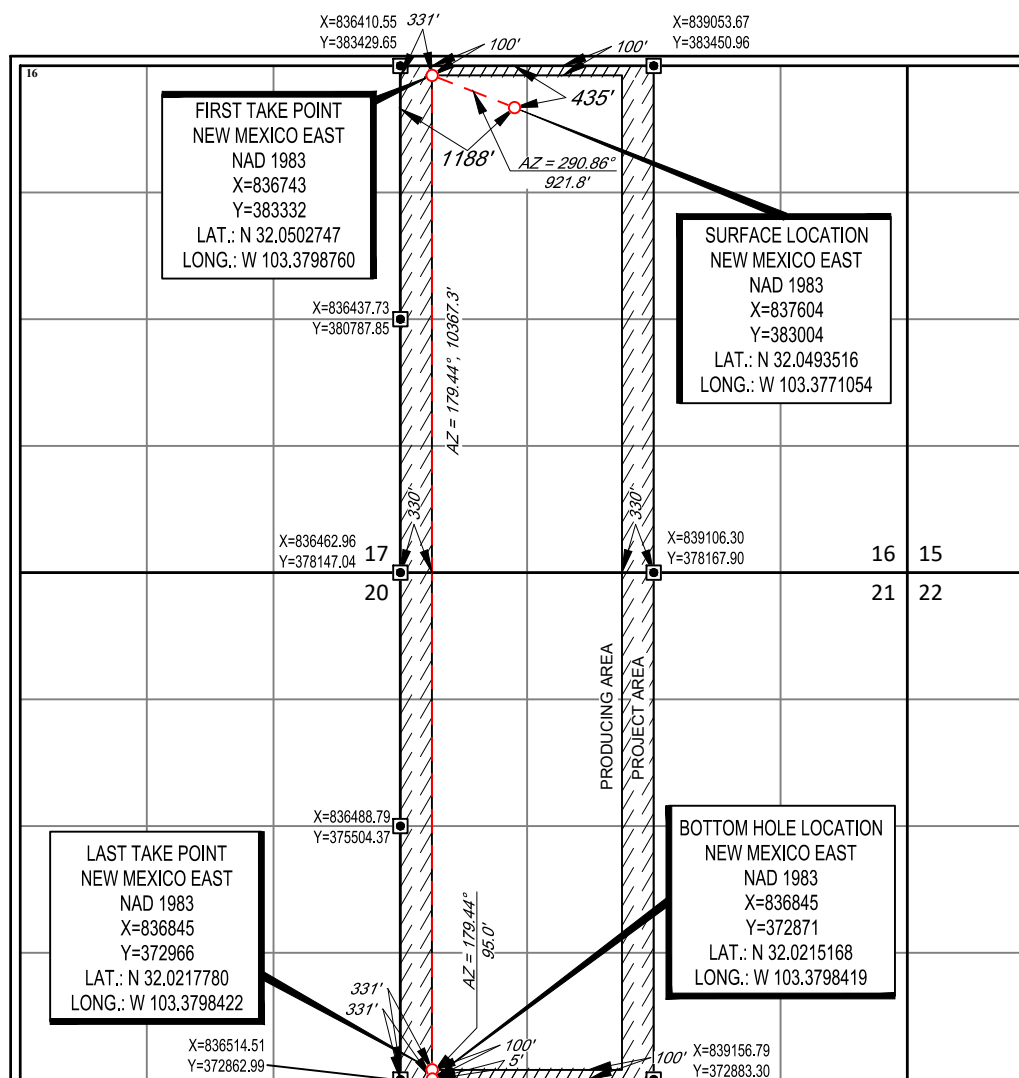
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	26-S	35-E	-	435'	NORTH	1188'	WEST	LEA

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
M	21	26-S	35-E	-	5'	SOUTH	331'	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.

¹⁷OPERATOR 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.

1/12/2022

Signature

Date

Jeff Trlica

Printed Name

jtrlica@taprk.com

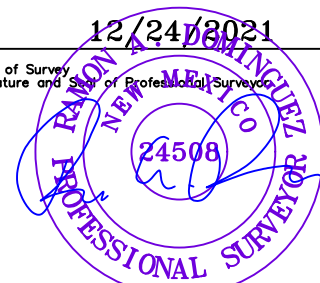
E-mail Address

¹⁸SURVEYOR 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.

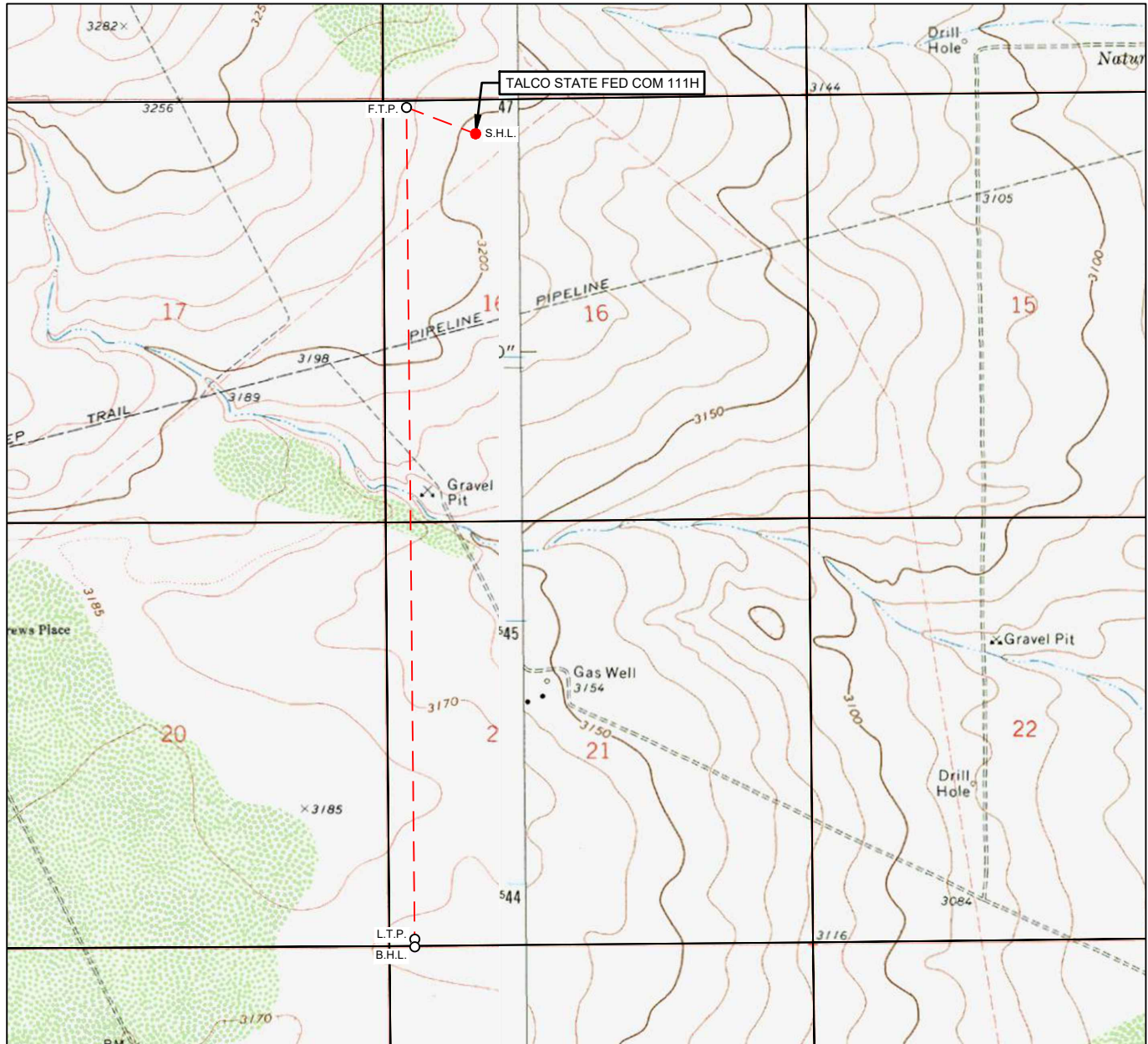
12/24/2021

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

LOCATION & ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: TALCO STATE FED COM 111H

SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3201'
 DESCRIPTION 435' FNL & 1188' FWL

LATITUDE N 32.0493516 LONGITUDE W 103.3771054

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

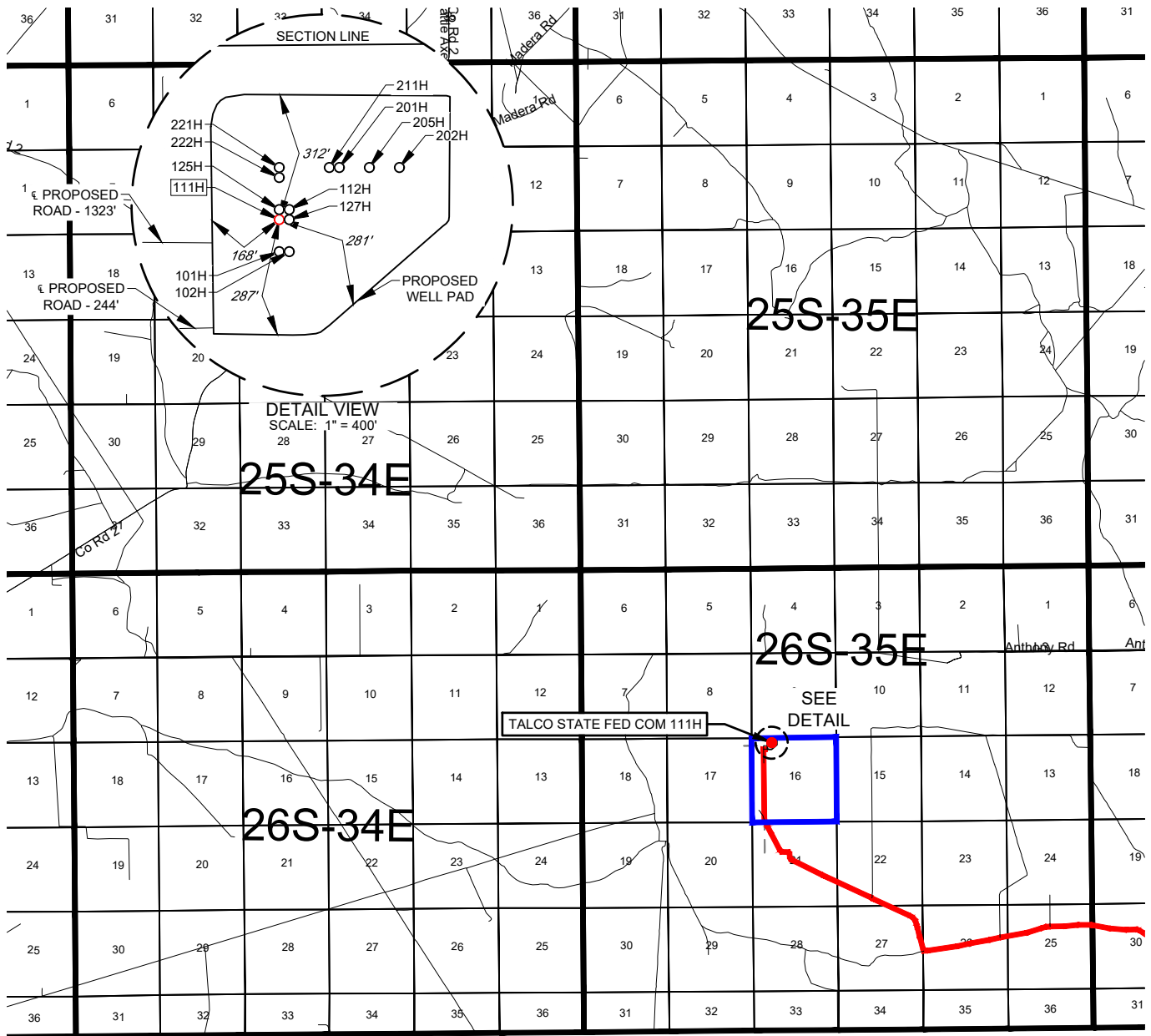
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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 111H

SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

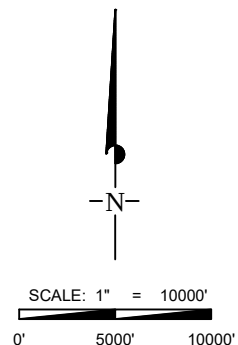
DESCRIPTION 435' FNL & 1188' FWL

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. ±1323 FEET TO A POINT ±177
 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.

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 MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

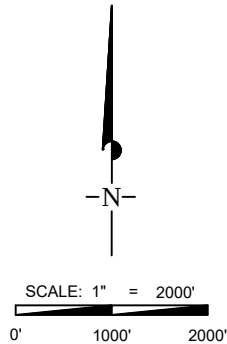
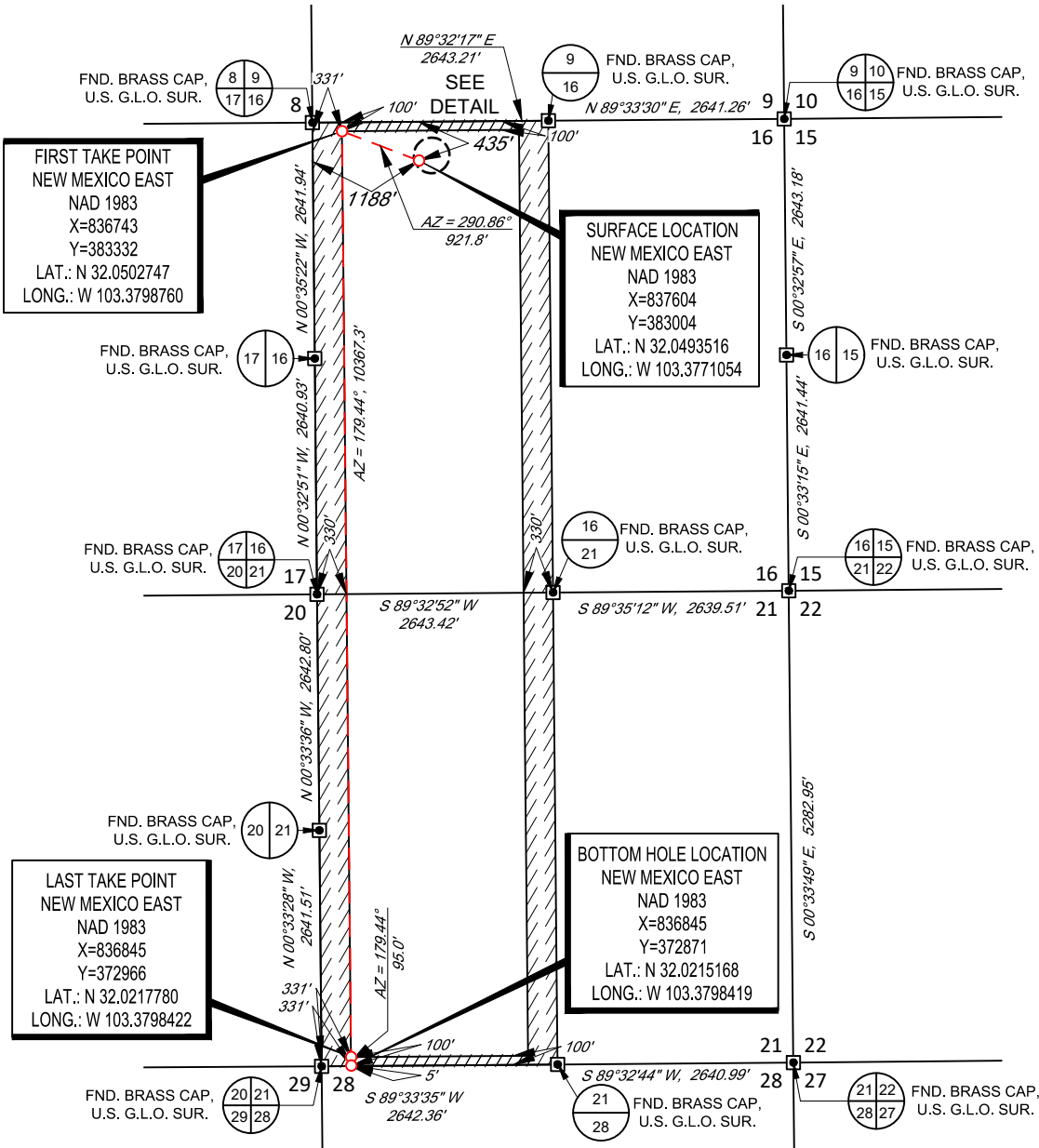


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 LOYALTY INNOVATION LEGACY

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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 111H

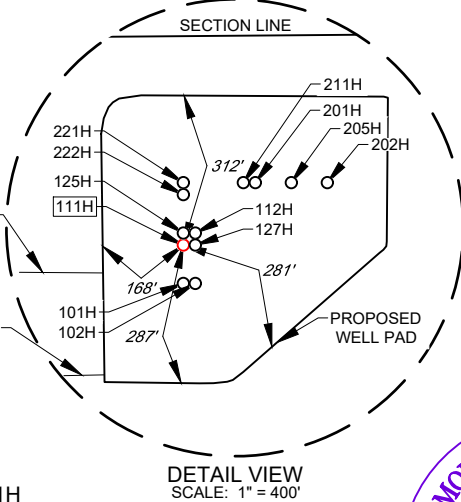
SECTION 16 TWP 26-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 435' FNL & 1188' FWL

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. ±1323 FEET
TO A POINT ±177 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.



Ramon A. Dominguez, P.S. No. 24508
December 24, 2021

 **TOPOGRAPHIC**
LOYALTY INNOVATION LEGACY

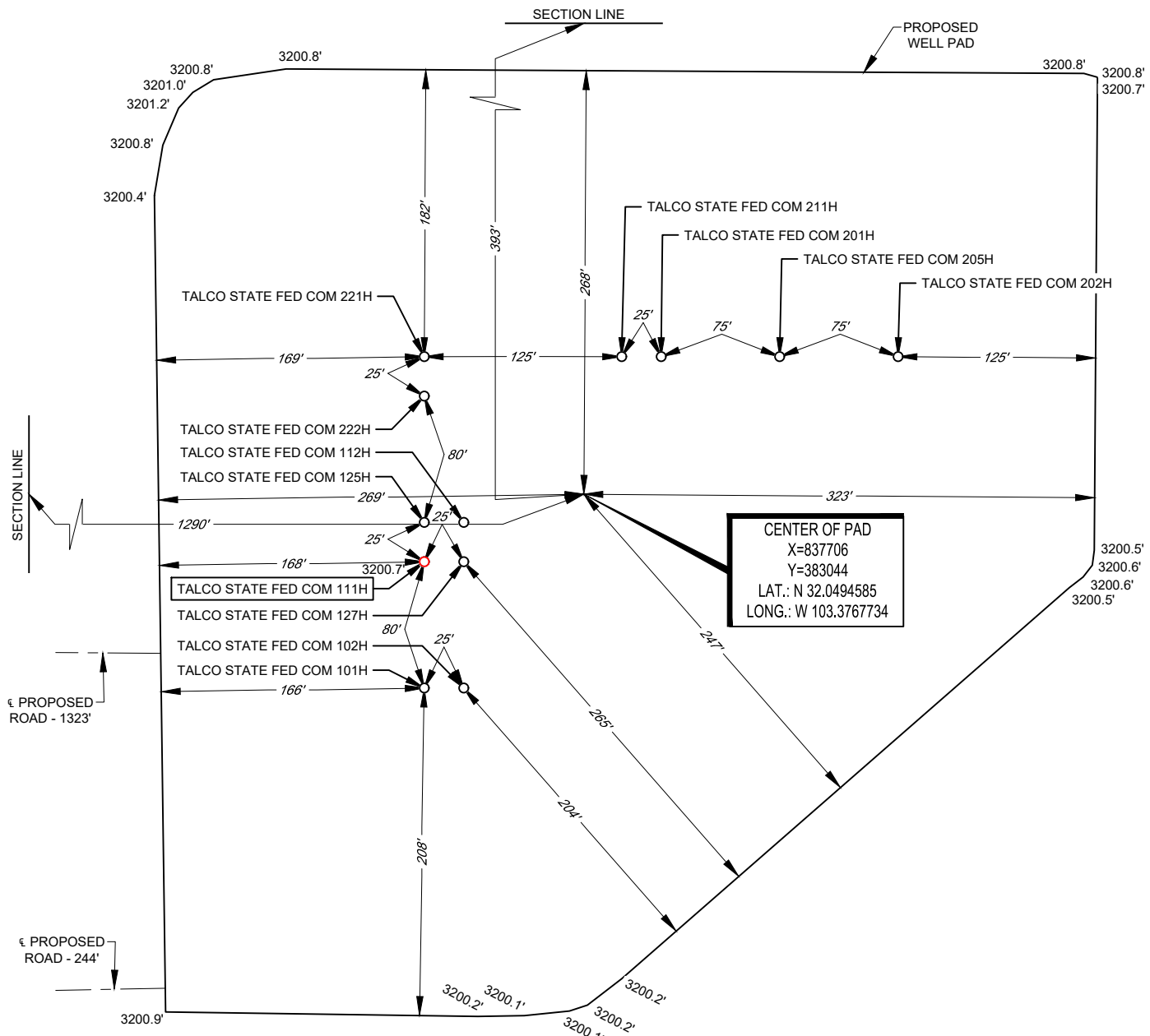
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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LEGEND

SECTION LINE
PROPOSED ROAD

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



Ramon A. Dominguez, P.S. No. 24508

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"

LEASE NAME & WELL NO.: TALCO STATE FED COM 111H
111H LATITUDE N 32.0493516 111H LONGITUDE W 103.3771054
CENTER OF PAD IS 393' FNL & 1290' FWL



SCALE: 1" = 100'
0' 50' 100'



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
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Drilling Operations Plan
Talco State Fed Com #111H
Tap Rock Operating, LLC
SHL 435' FNL & 1,188' FWL, Sec. 16
BHL 5' FSL & 331' FWL, Sec. 21
T. 26S., R. 35E Lea County, NM

Elevation above Sea Level: 3201'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	1120	1120		Salt
Salado	1685	1685	Salt	Salt
Base Salt	5010	5031	Salt	Salt
Lamar	5435	5459	Sandstone	None
Bell Canyon	5455	5479	Sandstone	Hydrocarbons
Cherry Canyon	6655	6687	Sandstone	Hydrocarbons
Brushy Canyon	7935	7975	Sandstone	Hydrocarbons
Bone Spring Lime	9335	9379	Limestone	Hydrocarbons
Upper Avalon	9385	9429	Sandstone	Hydrocarbons
Midde Avalon	9705	9749	Sandstone	Hydrocarbons
Lower Avalon	10085	10129	Sandstone	Hydrocarbons
1st Bone Spring Sand	10505	10658	Sandstone	Hydrocarbons
2nd Bone Spring Carb	NA	NA	Limestone	Hydrocarbons
2nd Bone Spring Sand	NA	NA	Sandstone	Hydrocarbons
KOP	10003	10046	Sandstone	Hydrocarbons
TD	10558	20783	Shale	Hydrocarbons

2. Notable Zones

1st Bone Spring Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 12,000', a 5,000 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 will be tested in this manner after nipple-up if any break of the stack occurs.



Drilling Operations Plan
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Tap Rock Operating, LLC
SHL 435' FNL & 1,188' FWL, Sec. 16
BHL 5' FSL & 331' FWL, Sec. 21
T. 26S., R. 35E Lea County, NM

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 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 cementing a casing string, a 5M 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 use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 2,500 psi high.

4. Casing & Cement

All Casing will be new.

Primary Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	0	1145	13 3/8	API	No	0	1145	0	1145	J-55	54.5	BUTT	1.13	1.15	1.6
Intermediate	12 1/4	1145	5508.9	9 5/8	API	No	0	5509	0	5485	J-55	40	BUTT	1.13	1.15	1.6
Production	8 3/4	5508.9	10046	5 1/2	NON API	No	0	9746	0	9703	P-110	20	TXP	1.13	1.15	1.6
	6 3/4	10046	20783	5 1/2	NON API	No	9746	20783	9703	10558	P-110	20	W-441	1.13	1.15	1.6

Alternative Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	0	1145	13 3/8	API	No	0	1145	0	1145	J-55	54.5	BUTT	1.13	1.15	1.6
Intermediate	12 1/4	1145	5508.9	9 5/8	API	No	0	5509	0	5485	J-55	40	BUTT	1.13	1.15	1.6
Production	8 3/4	5508.9	10046	5 1/2	NON API	No	0	20783	0	10558	P-110	20	TXP	1.13	1.15	1.6
	7 7/8	10046	20783													

Primary Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	682	1.72	1174	13.5	100%	C	5% NCI + LCM
	Tail	845	313	1.33	417	14.8	100%	C	5% NCI + LCM
Intermediate	Lead	0	1016	2.12	2154	11.0	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	4509	389	1.33	517	14.8	65%	C	5% NaCl + LCM
Production	Lead	5309	426	3.35	1428	10.5	20%	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	10046	941	1.63	1533	13.5	20%	H	Fluid Loss + Dispersant + Retarder + LCM



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 T. 26S., R. 35E Lea County, NM

Alternative Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	682	1.72	1174	13.5	100%	C	5% NCI + LCM
	Tail	845	313	1.33	417	14.8	100%	C	5% NCI + LCM
Intermediate	Lead	0	1016	2.12	2154	11.0	65%	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	4509	389	1.33	517	14.8	65%	C	5% NaCl + LCM
Production	Lead	5309	426	3.35	1428	10.5	20%	H	Fluid Loss + Dispersant + Retarder + LCM
	Tail	10046	1951	1.63	3180	13.5	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1145	FW Spud Mud	8.30	28	NC
Intermediate	1145	5509	Brine Water	10.00	30-32	NC
Production	5509	20783	FW/Cut Brine	9.00	30-32	NC

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 ≈4,941 psi. Expected bottom hole temperature is ≈165° F.

Tap Rock does not anticipate that there will be enough H₂S from the surface to the 2nd Bone Spring Sand 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.

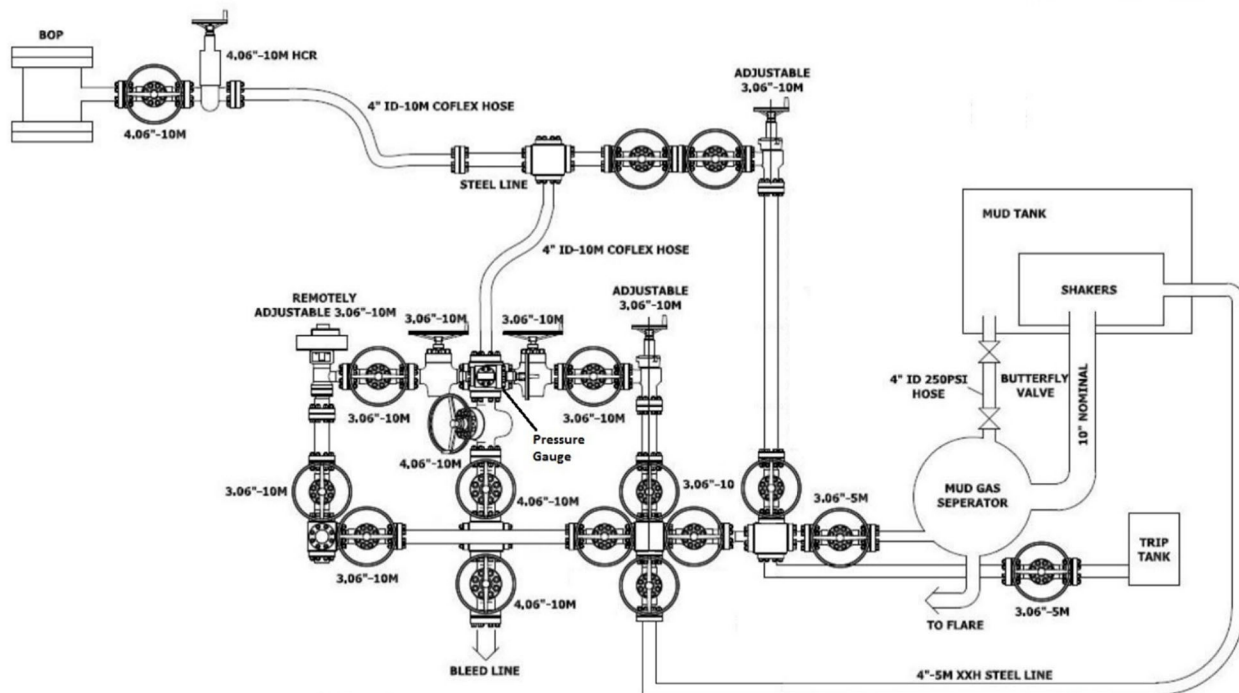


Drilling Operations Plan
 Talco State Fed Com #111H
 Tap Rock Operating, LLC
 SHL 435' FNL & 1,188' FWL, Sec. 16
 BHL 5' FSL & 331' FWL, Sec. 21
 T. 26S., R. 35E Lea County, NM

8. Other Information

This is an existing pad so there is no road and location construction. 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.

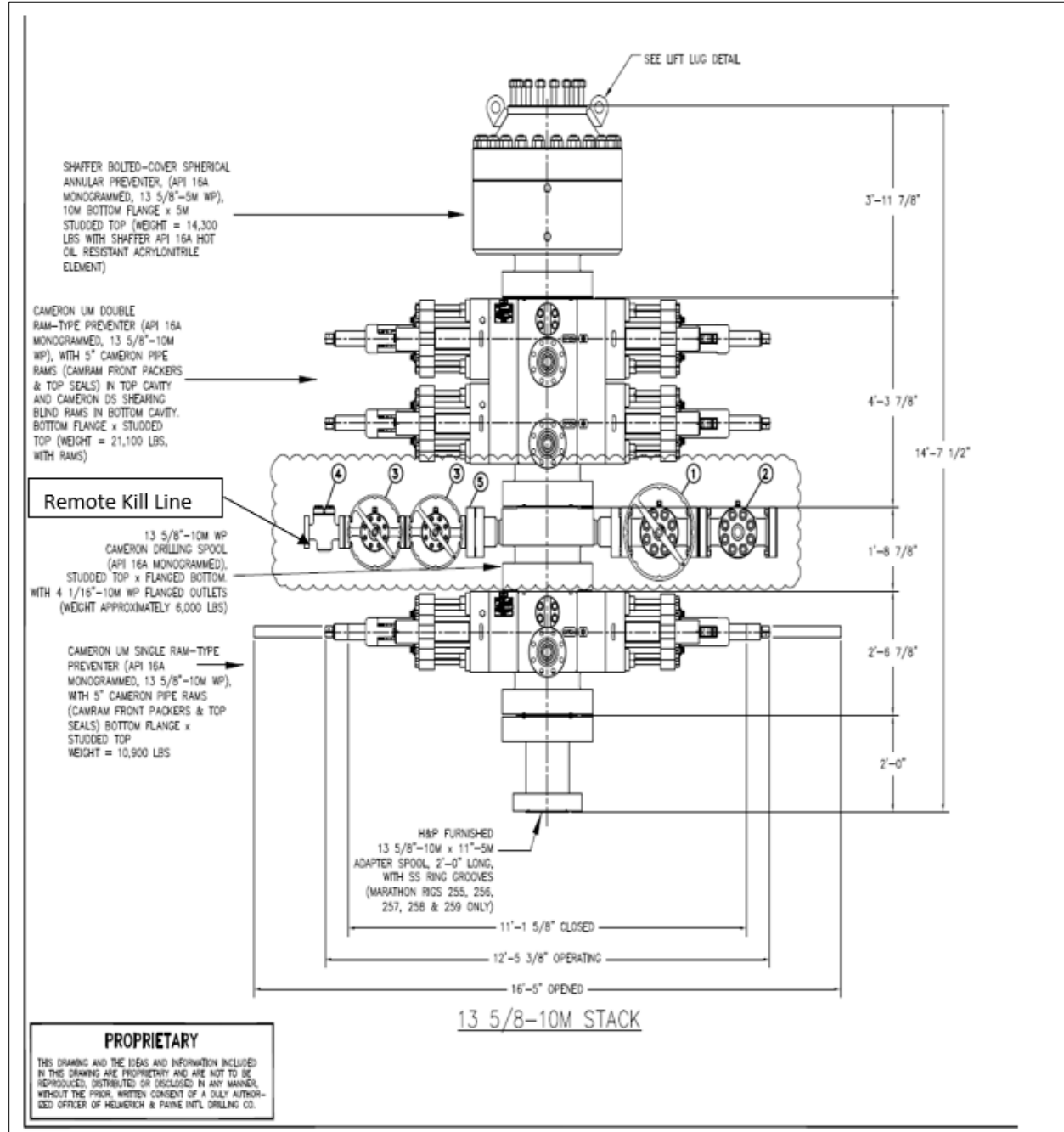
10M Choke Layout

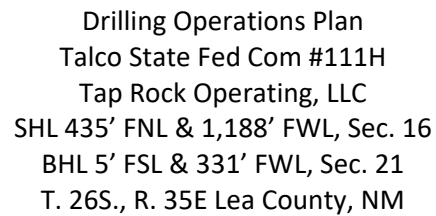




Drilling Operations Plan
 Talco State Fed Com #111H
 Tap Rock Operating, LLC
 SHL 435' FNL & 1,188' FWL, Sec. 16
 BHL 5' FSL & 331' FWL, Sec. 21
 T. 26S., R. 35E Lea County, NM

10,000 psi BOP Stack

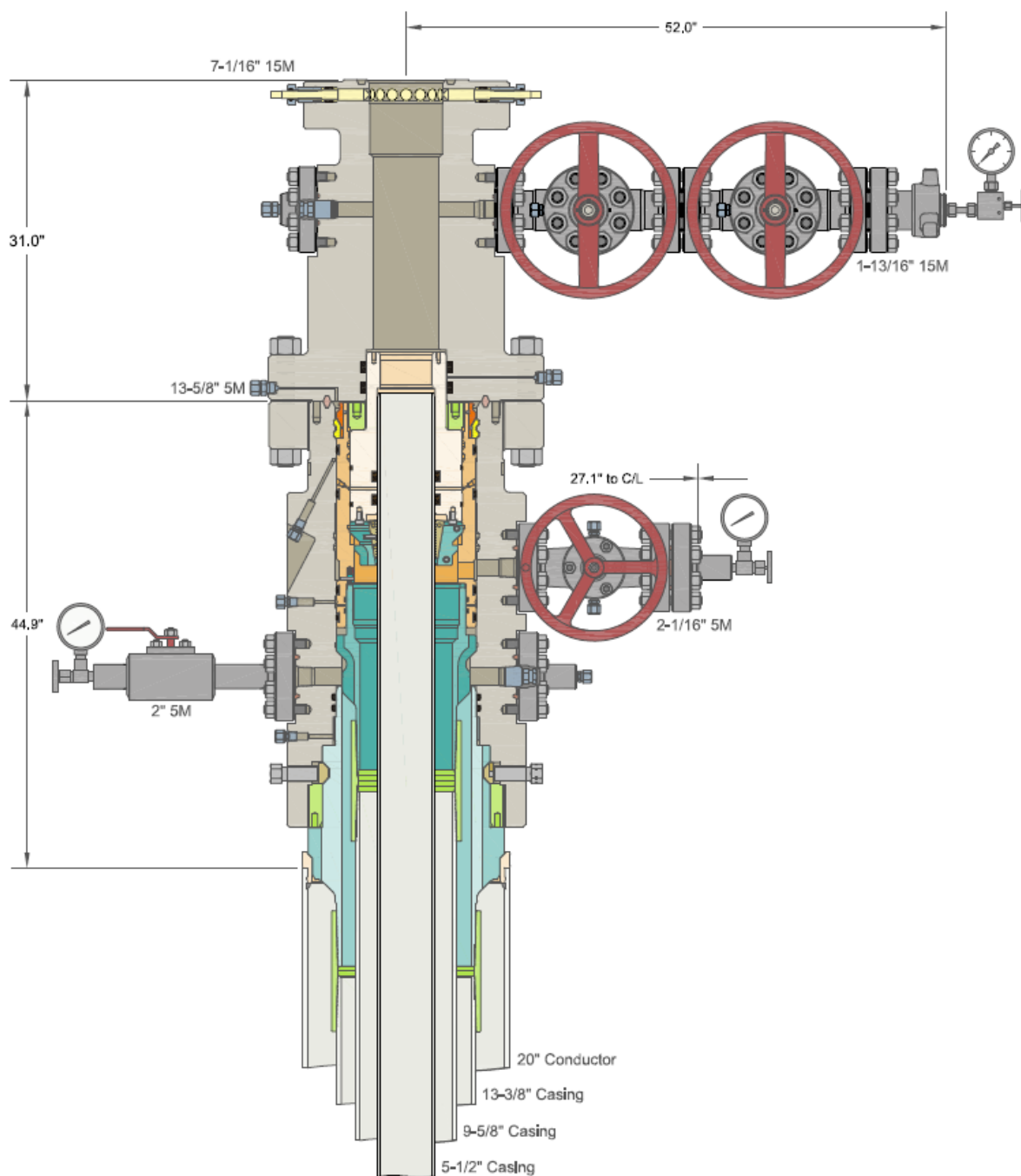






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Tap Rock Operating, LLC
SHL 435' FNL & 1,188' FWL, Sec. 16
BHL 5' FSL & 331' FWL, Sec. 21
T. 26S., R. 35E Lea County, NM

Multi-bowl Wellhead Design





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Talco) Sec-16_T-26-S_R-35-E
Talco State Fed Com #111H**

OWB

Plan: Plan #2

Standard Planning Report

09 January, 2022





Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Talco State Fed Com #111H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3227.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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

Well	Talco State Fed Com #111H		
Well Position	+N/-S	-130.0 usft	Northing:
	+E/-W	-300.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	05/07/21	6.42
			Dip Angle (°)
			59.88
			Field Strength (nT)
			47,456.99241539

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

Plan Survey Tool Program	Date	01/09/22		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,783.8	Plan #2 (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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,949.6	6.50	289.92	1,948.2	12.5	-34.6	1.00	1.00	0.00	289.92	
8,304.0	6.50	289.92	8,261.8	257.5	-710.4	0.00	0.00	0.00	0.00	
8,953.6	0.00	0.00	8,910.0	270.0	-745.0	1.00	-1.00	0.00	180.00	
10,046.6	0.00	0.00	10,003.0	270.0	-745.0	0.00	0.00	0.00	0.00	
10,947.6	90.10	187.90	10,576.0	-298.5	-823.9	10.00	10.00	0.00	187.90	
11,370.6	90.10	179.44	10,575.2	-720.2	-850.9	2.00	0.00	-2.00	-89.97	
20,783.8	90.10	179.44	10,558.3	-10,133.0	-759.0	0.00	0.00	0.00	0.00	PBHL (Talco State)



Intrepid Planning Report



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Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3227.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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	1.00	289.92	1,400.0	0.3	-0.8	-0.3	1.00	1.00	0.00
1,500.0	2.00	289.92	1,500.0	1.2	-3.3	-1.2	1.00	1.00	0.00
1,600.0	3.00	289.92	1,599.9	2.7	-7.4	-2.7	1.00	1.00	0.00
1,700.0	4.00	289.92	1,699.7	4.8	-13.1	-4.9	1.00	1.00	0.00
1,800.0	5.00	289.92	1,799.4	7.4	-20.5	-7.6	1.00	1.00	0.00
1,900.0	6.00	289.92	1,898.9	10.7	-29.5	-11.0	1.00	1.00	0.00
1,949.6	6.50	289.92	1,948.2	12.5	-34.6	-12.9	1.00	1.00	0.00
2,000.0	6.50	289.92	1,998.3	14.5	-39.9	-14.9	0.00	0.00	0.00
2,100.0	6.50	289.92	2,097.6	18.3	-50.6	-18.8	0.00	0.00	0.00
2,200.0	6.50	289.92	2,197.0	22.2	-61.2	-22.8	0.00	0.00	0.00
2,300.0	6.50	289.92	2,296.4	26.0	-71.9	-26.7	0.00	0.00	0.00
2,400.0	6.50	289.92	2,395.7	29.9	-82.5	-30.7	0.00	0.00	0.00
2,500.0	6.50	289.92	2,495.1	33.7	-93.1	-34.7	0.00	0.00	0.00
2,600.0	6.50	289.92	2,594.4	37.6	-103.8	-38.6	0.00	0.00	0.00
2,700.0	6.50	289.92	2,693.8	41.5	-114.4	-42.6	0.00	0.00	0.00
2,800.0	6.50	289.92	2,793.2	45.3	-125.0	-46.5	0.00	0.00	0.00
2,900.0	6.50	289.92	2,892.5	49.2	-135.7	-50.5	0.00	0.00	0.00
3,000.0	6.50	289.92	2,991.9	53.0	-146.3	-54.4	0.00	0.00	0.00
3,100.0	6.50	289.92	3,091.2	56.9	-156.9	-58.4	0.00	0.00	0.00
3,200.0	6.50	289.92	3,190.6	60.7	-167.6	-62.4	0.00	0.00	0.00
3,300.0	6.50	289.92	3,289.9	64.6	-178.2	-66.3	0.00	0.00	0.00
3,400.0	6.50	289.92	3,389.3	68.4	-188.8	-70.3	0.00	0.00	0.00
3,500.0	6.50	289.92	3,488.7	72.3	-199.5	-74.2	0.00	0.00	0.00
3,600.0	6.50	289.92	3,588.0	76.1	-210.1	-78.2	0.00	0.00	0.00
3,700.0	6.50	289.92	3,687.4	80.0	-220.8	-82.2	0.00	0.00	0.00
3,800.0	6.50	289.92	3,786.7	83.9	-231.4	-86.1	0.00	0.00	0.00
3,900.0	6.50	289.92	3,886.1	87.7	-242.0	-90.1	0.00	0.00	0.00
4,000.0	6.50	289.92	3,985.4	91.6	-252.7	-94.0	0.00	0.00	0.00
4,100.0	6.50	289.92	4,084.8	95.4	-263.3	-98.0	0.00	0.00	0.00
4,200.0	6.50	289.92	4,184.2	99.3	-273.9	-101.9	0.00	0.00	0.00
4,300.0	6.50	289.92	4,283.5	103.1	-284.6	-105.9	0.00	0.00	0.00
4,400.0	6.50	289.92	4,382.9	107.0	-295.2	-109.9	0.00	0.00	0.00
4,500.0	6.50	289.92	4,482.2	110.8	-305.8	-113.8	0.00	0.00	0.00
4,600.0	6.50	289.92	4,581.6	114.7	-316.5	-117.8	0.00	0.00	0.00
4,700.0	6.50	289.92	4,681.0	118.5	-327.1	-121.7	0.00	0.00	0.00
4,800.0	6.50	289.92	4,780.3	122.4	-337.7	-125.7	0.00	0.00	0.00
4,900.0	6.50	289.92	4,879.7	126.3	-348.4	-129.7	0.00	0.00	0.00
5,000.0	6.50	289.92	4,979.0	130.1	-359.0	-133.6	0.00	0.00	0.00
5,100.0	6.50	289.92	5,078.4	134.0	-369.7	-137.6	0.00	0.00	0.00
5,200.0	6.50	289.92	5,177.7	137.8	-380.3	-141.5	0.00	0.00	0.00



Intrepid Planning Report



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Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3227.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)
5,300.0	6.50	289.92	5,277.1	141.7	-390.9	-145.5	0.00	0.00	0.00
5,400.0	6.50	289.92	5,376.5	145.5	-401.6	-149.4	0.00	0.00	0.00
5,500.0	6.50	289.92	5,475.8	149.4	-412.2	-153.4	0.00	0.00	0.00
5,600.0	6.50	289.92	5,575.2	153.2	-422.8	-157.4	0.00	0.00	0.00
5,700.0	6.50	289.92	5,674.5	157.1	-433.5	-161.3	0.00	0.00	0.00
5,800.0	6.50	289.92	5,773.9	160.9	-444.1	-165.3	0.00	0.00	0.00
5,900.0	6.50	289.92	5,873.2	164.8	-454.7	-169.2	0.00	0.00	0.00
6,000.0	6.50	289.92	5,972.6	168.7	-465.4	-173.2	0.00	0.00	0.00
6,100.0	6.50	289.92	6,072.0	172.5	-476.0	-177.2	0.00	0.00	0.00
6,200.0	6.50	289.92	6,171.3	176.4	-486.6	-181.1	0.00	0.00	0.00
6,300.0	6.50	289.92	6,270.7	180.2	-497.3	-185.1	0.00	0.00	0.00
6,400.0	6.50	289.92	6,370.0	184.1	-507.9	-189.0	0.00	0.00	0.00
6,500.0	6.50	289.92	6,469.4	187.9	-518.6	-193.0	0.00	0.00	0.00
6,600.0	6.50	289.92	6,568.8	191.8	-529.2	-196.9	0.00	0.00	0.00
6,700.0	6.50	289.92	6,668.1	195.6	-539.8	-200.9	0.00	0.00	0.00
6,800.0	6.50	289.92	6,767.5	199.5	-550.5	-204.9	0.00	0.00	0.00
6,900.0	6.50	289.92	6,866.8	203.3	-561.1	-208.8	0.00	0.00	0.00
7,000.0	6.50	289.92	6,966.2	207.2	-571.7	-212.8	0.00	0.00	0.00
7,100.0	6.50	289.92	7,065.5	211.1	-582.4	-216.7	0.00	0.00	0.00
7,200.0	6.50	289.92	7,164.9	214.9	-593.0	-220.7	0.00	0.00	0.00
7,300.0	6.50	289.92	7,264.3	218.8	-603.6	-224.7	0.00	0.00	0.00
7,400.0	6.50	289.92	7,363.6	222.6	-614.3	-228.6	0.00	0.00	0.00
7,500.0	6.50	289.92	7,463.0	226.5	-624.9	-232.6	0.00	0.00	0.00
7,600.0	6.50	289.92	7,562.3	230.3	-635.5	-236.5	0.00	0.00	0.00
7,700.0	6.50	289.92	7,661.7	234.2	-646.2	-240.5	0.00	0.00	0.00
7,800.0	6.50	289.92	7,761.1	238.0	-656.8	-244.4	0.00	0.00	0.00
7,900.0	6.50	289.92	7,860.4	241.9	-667.5	-248.4	0.00	0.00	0.00
8,000.0	6.50	289.92	7,959.8	245.7	-678.1	-252.4	0.00	0.00	0.00
8,100.0	6.50	289.92	8,059.1	249.6	-688.7	-256.3	0.00	0.00	0.00
8,200.0	6.50	289.92	8,158.5	253.5	-699.4	-260.3	0.00	0.00	0.00
8,304.0	6.50	289.92	8,261.8	257.5	-710.4	-264.4	0.00	0.00	0.00
8,400.0	5.54	289.92	8,357.3	260.9	-719.9	-267.9	1.00	-1.00	0.00
8,500.0	4.54	289.92	8,456.9	263.9	-728.1	-271.0	1.00	-1.00	0.00
8,600.0	3.54	289.92	8,556.7	266.3	-734.7	-273.5	1.00	-1.00	0.00
8,700.0	2.54	289.92	8,656.5	268.1	-739.7	-275.3	1.00	-1.00	0.00
8,800.0	1.54	289.92	8,756.4	269.3	-743.1	-276.5	1.00	-1.00	0.00
8,900.0	0.54	289.92	8,856.4	269.9	-744.8	-277.2	1.00	-1.00	0.00
8,953.6	0.00	0.00	8,910.0	270.0	-745.0	-277.3	1.00	-1.00	0.00
9,000.0	0.00	0.00	8,956.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,056.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,156.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,256.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,356.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,456.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,556.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,656.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,756.4	270.0	-745.0	-277.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,856.4	270.0	-745.0	-277.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,956.4	270.0	-745.0	-277.3	0.00	0.00	0.00
10,046.6	0.00	0.00	10,003.0	270.0	-745.0	-277.3	0.00	0.00	0.00
10,050.0	0.34	187.90	10,006.4	270.0	-745.0	-277.3	10.00	10.00	0.00
10,100.0	5.34	187.90	10,056.3	267.5	-745.3	-274.8	10.00	10.00	0.00
10,150.0	10.34	187.90	10,105.9	260.8	-746.3	-268.1	10.00	10.00	0.00
10,200.0	15.34	187.90	10,154.6	249.8	-747.8	-257.1	10.00	10.00	0.00



Intrepid Planning Report



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Wellbore:	OWB		
Design:	Plan #2		

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)
10,250.0	20.34	187.90	10,202.2	234.6	-749.9	-241.9	10.00	10.00	0.00
10,300.0	25.34	187.90	10,248.2	215.4	-752.6	-222.7	10.00	10.00	0.00
10,350.0	30.34	187.90	10,292.4	192.3	-755.8	-199.6	10.00	10.00	0.00
10,400.0	35.34	187.90	10,334.4	165.4	-759.5	-172.8	10.00	10.00	0.00
10,450.0	40.34	187.90	10,373.9	135.0	-763.7	-142.5	10.00	10.00	0.00
10,500.0	45.34	187.90	10,410.6	101.4	-768.4	-108.9	10.00	10.00	0.00
10,550.0	50.34	187.90	10,444.1	64.7	-773.5	-72.2	10.00	10.00	0.00
10,600.0	55.34	187.90	10,474.3	25.2	-779.0	-32.8	10.00	10.00	0.00
10,650.0	60.34	187.90	10,500.9	-16.7	-784.8	9.0	10.00	10.00	0.00
10,700.0	65.34	187.90	10,523.7	-60.8	-790.9	53.0	10.00	10.00	0.00
10,750.0	70.34	187.90	10,542.6	-106.6	-797.3	98.8	10.00	10.00	0.00
10,800.0	75.34	187.90	10,557.3	-153.9	-803.8	146.1	10.00	10.00	0.00
10,850.0	80.34	187.90	10,567.8	-202.3	-810.5	194.4	10.00	10.00	0.00
10,900.0	85.34	187.90	10,574.1	-251.4	-817.4	243.4	10.00	10.00	0.00
10,947.6	90.10	187.90	10,576.0	-298.5	-823.9	290.4	10.00	10.00	0.00
11,000.0	90.10	186.85	10,575.9	-350.5	-830.6	342.4	2.00	0.00	-2.00
11,100.0	90.10	184.85	10,575.7	-450.0	-840.8	441.7	2.00	0.00	-2.00
11,200.0	90.10	182.85	10,575.5	-549.7	-847.5	541.4	2.00	0.00	-2.00
11,300.0	90.10	180.85	10,575.3	-649.7	-850.8	641.3	2.00	0.00	-2.00
11,370.6	90.10	179.44	10,575.2	-720.2	-850.9	711.9	2.00	0.00	-2.00
11,400.0	90.10	179.44	10,575.2	-749.7	-850.7	741.3	0.00	0.00	0.00
11,500.0	90.10	179.44	10,575.0	-849.7	-849.7	841.3	0.00	0.00	0.00
11,600.0	90.10	179.44	10,574.8	-949.7	-848.7	941.3	0.00	0.00	0.00
11,700.0	90.10	179.44	10,574.6	-1,049.7	-847.7	1,041.3	0.00	0.00	0.00
11,800.0	90.10	179.44	10,574.4	-1,149.7	-846.7	1,141.3	0.00	0.00	0.00
11,900.0	90.10	179.44	10,574.3	-1,249.7	-845.8	1,241.3	0.00	0.00	0.00
12,000.0	90.10	179.44	10,574.1	-1,349.7	-844.8	1,341.3	0.00	0.00	0.00
12,100.0	90.10	179.44	10,573.9	-1,449.7	-843.8	1,441.3	0.00	0.00	0.00
12,200.0	90.10	179.44	10,573.7	-1,549.6	-842.8	1,541.3	0.00	0.00	0.00
12,300.0	90.10	179.44	10,573.5	-1,649.6	-841.9	1,641.3	0.00	0.00	0.00
12,400.0	90.10	179.44	10,573.4	-1,749.6	-840.9	1,741.3	0.00	0.00	0.00
12,500.0	90.10	179.44	10,573.2	-1,849.6	-839.9	1,841.3	0.00	0.00	0.00
12,600.0	90.10	179.44	10,573.0	-1,949.6	-838.9	1,941.3	0.00	0.00	0.00
12,700.0	90.10	179.44	10,572.8	-2,049.6	-838.0	2,041.3	0.00	0.00	0.00
12,800.0	90.10	179.44	10,572.6	-2,149.6	-837.0	2,141.3	0.00	0.00	0.00
12,900.0	90.10	179.44	10,572.5	-2,249.6	-836.0	2,241.3	0.00	0.00	0.00
13,000.0	90.10	179.44	10,572.3	-2,349.6	-835.0	2,341.3	0.00	0.00	0.00
13,100.0	90.10	179.44	10,572.1	-2,449.6	-834.0	2,441.3	0.00	0.00	0.00
13,200.0	90.10	179.44	10,571.9	-2,549.6	-833.1	2,541.3	0.00	0.00	0.00
13,300.0	90.10	179.44	10,571.7	-2,649.6	-832.1	2,641.3	0.00	0.00	0.00
13,400.0	90.10	179.44	10,571.6	-2,749.6	-831.1	2,741.3	0.00	0.00	0.00
13,500.0	90.10	179.44	10,571.4	-2,849.6	-830.1	2,841.3	0.00	0.00	0.00
13,600.0	90.10	179.44	10,571.2	-2,949.6	-829.2	2,941.3	0.00	0.00	0.00
13,700.0	90.10	179.44	10,571.0	-3,049.6	-828.2	3,041.3	0.00	0.00	0.00
13,800.0	90.10	179.44	10,570.9	-3,149.6	-827.2	3,141.3	0.00	0.00	0.00
13,900.0	90.10	179.44	10,570.7	-3,249.6	-826.2	3,241.3	0.00	0.00	0.00
14,000.0	90.10	179.44	10,570.5	-3,349.6	-825.3	3,341.3	0.00	0.00	0.00
14,100.0	90.10	179.44	10,570.3	-3,449.6	-824.3	3,441.3	0.00	0.00	0.00
14,200.0	90.10	179.44	10,570.1	-3,549.5	-823.3	3,541.3	0.00	0.00	0.00
14,300.0	90.10	179.44	10,570.0	-3,649.5	-822.3	3,641.3	0.00	0.00	0.00
14,400.0	90.10	179.44	10,569.8	-3,749.5	-821.4	3,741.3	0.00	0.00	0.00
14,500.0	90.10	179.44	10,569.6	-3,849.5	-820.4	3,841.3	0.00	0.00	0.00
14,600.0	90.10	179.44	10,569.4	-3,949.5	-819.4	3,941.3	0.00	0.00	0.00
14,700.0	90.10	179.44	10,569.2	-4,049.5	-818.4	4,041.3	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 #111H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3227.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.10	179.44	10,569.1	-4,149.5	-817.4	4,141.3	0.00	0.00	0.00
14,900.0	90.10	179.44	10,568.9	-4,249.5	-816.5	4,241.3	0.00	0.00	0.00
15,000.0	90.10	179.44	10,568.7	-4,349.5	-815.5	4,341.3	0.00	0.00	0.00
15,100.0	90.10	179.44	10,568.5	-4,449.5	-814.5	4,441.3	0.00	0.00	0.00
15,200.0	90.10	179.44	10,568.3	-4,549.5	-813.5	4,541.3	0.00	0.00	0.00
15,300.0	90.10	179.44	10,568.2	-4,649.5	-812.6	4,641.3	0.00	0.00	0.00
15,400.0	90.10	179.44	10,568.0	-4,749.5	-811.6	4,741.3	0.00	0.00	0.00
15,500.0	90.10	179.44	10,567.8	-4,849.5	-810.6	4,841.3	0.00	0.00	0.00
15,600.0	90.10	179.44	10,567.6	-4,949.5	-809.6	4,941.3	0.00	0.00	0.00
15,700.0	90.10	179.44	10,567.4	-5,049.5	-808.7	5,041.3	0.00	0.00	0.00
15,800.0	90.10	179.44	10,567.3	-5,149.5	-807.7	5,141.3	0.00	0.00	0.00
15,900.0	90.10	179.44	10,567.1	-5,249.5	-806.7	5,241.3	0.00	0.00	0.00
16,000.0	90.10	179.44	10,566.9	-5,349.5	-805.7	5,341.3	0.00	0.00	0.00
16,100.0	90.10	179.44	10,566.7	-5,449.5	-804.7	5,441.3	0.00	0.00	0.00
16,200.0	90.10	179.44	10,566.5	-5,549.4	-803.8	5,541.3	0.00	0.00	0.00
16,300.0	90.10	179.44	10,566.4	-5,649.4	-802.8	5,641.3	0.00	0.00	0.00
16,400.0	90.10	179.44	10,566.2	-5,749.4	-801.8	5,741.3	0.00	0.00	0.00
16,500.0	90.10	179.44	10,566.0	-5,849.4	-800.8	5,841.3	0.00	0.00	0.00
16,600.0	90.10	179.44	10,565.8	-5,949.4	-799.9	5,941.3	0.00	0.00	0.00
16,700.0	90.10	179.44	10,565.7	-6,049.4	-798.9	6,041.3	0.00	0.00	0.00
16,800.0	90.10	179.44	10,565.5	-6,149.4	-797.9	6,141.3	0.00	0.00	0.00
16,900.0	90.10	179.44	10,565.3	-6,249.4	-796.9	6,241.3	0.00	0.00	0.00
17,000.0	90.10	179.44	10,565.1	-6,349.4	-796.0	6,341.3	0.00	0.00	0.00
17,100.0	90.10	179.44	10,564.9	-6,449.4	-795.0	6,441.3	0.00	0.00	0.00
17,200.0	90.10	179.44	10,564.8	-6,549.4	-794.0	6,541.3	0.00	0.00	0.00
17,300.0	90.10	179.44	10,564.6	-6,649.4	-793.0	6,641.3	0.00	0.00	0.00
17,400.0	90.10	179.44	10,564.4	-6,749.4	-792.0	6,741.3	0.00	0.00	0.00
17,500.0	90.10	179.44	10,564.2	-6,849.4	-791.1	6,841.3	0.00	0.00	0.00
17,600.0	90.10	179.44	10,564.0	-6,949.4	-790.1	6,941.3	0.00	0.00	0.00
17,700.0	90.10	179.44	10,563.9	-7,049.4	-789.1	7,041.3	0.00	0.00	0.00
17,800.0	90.10	179.44	10,563.7	-7,149.4	-788.1	7,141.3	0.00	0.00	0.00
17,900.0	90.10	179.44	10,563.5	-7,249.4	-787.2	7,241.3	0.00	0.00	0.00
18,000.0	90.10	179.44	10,563.3	-7,349.4	-786.2	7,341.3	0.00	0.00	0.00
18,100.0	90.10	179.44	10,563.1	-7,449.4	-785.2	7,441.3	0.00	0.00	0.00
18,200.0	90.10	179.44	10,563.0	-7,549.3	-784.2	7,541.3	0.00	0.00	0.00
18,300.0	90.10	179.44	10,562.8	-7,649.3	-783.3	7,641.3	0.00	0.00	0.00
18,400.0	90.10	179.44	10,562.6	-7,749.3	-782.3	7,741.3	0.00	0.00	0.00
18,500.0	90.10	179.44	10,562.4	-7,849.3	-781.3	7,841.3	0.00	0.00	0.00
18,600.0	90.10	179.44	10,562.2	-7,949.3	-780.3	7,941.3	0.00	0.00	0.00
18,700.0	90.10	179.44	10,562.1	-8,049.3	-779.4	8,041.3	0.00	0.00	0.00
18,800.0	90.10	179.44	10,561.9	-8,149.3	-778.4	8,141.3	0.00	0.00	0.00
18,900.0	90.10	179.44	10,561.7	-8,249.3	-777.4	8,241.3	0.00	0.00	0.00
19,000.0	90.10	179.44	10,561.5	-8,349.3	-776.4	8,341.3	0.00	0.00	0.00
19,100.0	90.10	179.44	10,561.3	-8,449.3	-775.4	8,441.3	0.00	0.00	0.00
19,200.0	90.10	179.44	10,561.2	-8,549.3	-774.5	8,541.3	0.00	0.00	0.00
19,300.0	90.10	179.44	10,561.0	-8,649.3	-773.5	8,641.3	0.00	0.00	0.00
19,400.0	90.10	179.44	10,560.8	-8,749.3	-772.5	8,741.3	0.00	0.00	0.00
19,500.0	90.10	179.44	10,560.6	-8,849.3	-771.5	8,841.3	0.00	0.00	0.00
19,600.0	90.10	179.44	10,560.5	-8,949.3	-770.6	8,941.3	0.00	0.00	0.00
19,700.0	90.10	179.44	10,560.3	-9,049.3	-769.6	9,041.3	0.00	0.00	0.00
19,800.0	90.10	179.44	10,560.1	-9,149.3	-768.6	9,141.3	0.00	0.00	0.00
19,900.0	90.10	179.44	10,559.9	-9,249.3	-767.6	9,241.3	0.00	0.00	0.00
20,000.0	90.10	179.44	10,559.7	-9,349.3	-766.7	9,341.3	0.00	0.00	0.00
20,100.0	90.10	179.44	10,559.6	-9,449.3	-765.7	9,441.3	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 #111H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3227.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)	
20,200.0	90.10	179.44	10,559.4	-9,549.3	-764.7	9,541.3	0.00	0.00	0.00	
20,300.0	90.10	179.44	10,559.2	-9,649.2	-763.7	9,641.3	0.00	0.00	0.00	
20,400.0	90.10	179.44	10,559.0	-9,749.2	-762.7	9,741.3	0.00	0.00	0.00	
20,500.0	90.10	179.44	10,558.8	-9,849.2	-761.8	9,841.3	0.00	0.00	0.00	
20,600.0	90.10	179.44	10,558.7	-9,949.2	-760.8	9,941.3	0.00	0.00	0.00	
20,700.0	90.10	179.44	10,558.5	-10,049.2	-759.8	10,041.3	0.00	0.00	0.00	
20,783.8	90.10	179.44	10,558.3	-10,133.0	-759.0	10,125.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
LTP (Talco State Fed	0.00	0.00	10,558.3	-10,038.0	-759.0	372,966.00	836,845.00	32° 1' 18.405 N	103° 22' 47.426 W	
- plan misses target center by 0.9usft at 20688.8usft MD (10558.5 TVD, -10038.0 N, -759.9 E)										
- Point										
PBHL (Talco State Fe	-0.10	179.44	10,558.3	-10,133.0	-759.0	372,871.00	836,845.00	32° 1' 17.465 N	103° 22' 47.436 W	
- plan hits target center										
- Rectangle (sides W100.0 H10,462.0 D30.0)										
FTP (Talco State Fed	0.00	0.00	10,576.0	328.0	-861.0	383,332.00	836,743.00	32° 3' 0.986 N	103° 22' 47.548 W	
- plan misses target center by 294.1usft at 10477.3usft MD (10394.3 TVD, 117.0 N, -766.2 E)										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,120.0	1,120.0	Rustler Anhydrite				
1,685.3	1,685.0	Top Salt				
5,031.2	5,010.0	Base Salt				
5,443.8	5,420.0	Delaware Mountain Gp				
5,458.9	5,435.0	Lamar				
5,479.0	5,455.0	Bell Canyon				
5,730.7	5,705.0	Ramsey Sand				
6,686.8	6,655.0	Cherry Canyon				
7,975.1	7,935.0	Brushy Canyon				
9,378.6	9,335.0	Bone Spring Lime				
9,428.6	9,385.0	Upper Avalon				
9,748.6	9,705.0	Middle Avalon				
10,128.9	10,085.0	Lower Avalon				
10,658.4	10,505.0	1st Bone Spring Sand				



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3227.0usft
Site:	(Talco) Sec-16_T-26-S_R-35-E	North Reference:	Grid
Well:	Talco State Fed Com #111H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,300.0	1,300.0	0.0	0.0	NUDGE - Build 1.00
1,949.6	1,948.2	12.5	-34.6	HOLD - 6354.5 at 1949.6 MD
8,304.0	8,261.8	257.5	-710.4	DROP - -1.00
8,953.6	8,910.0	270.0	-745.0	HOLD - 1093.0 at 8953.6 MD
10,046.6	10,003.0	270.0	-745.0	KOP - Build 10.00
10,947.6	10,576.0	-298.5	-823.9	EOC/TRN - DLS 2.00 TFO -89.96
11,370.6	10,575.2	-720.2	-850.9	Start 9413.2 hold at 11370.6 MD
20,783.8	10,558.3	-10,133.0	-759.0	TD at 20783.8

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 104140

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 104140
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/12/2022