Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-48673

5. Indicate Type of Lease STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Poseidon State Com

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

8. Well Number 221H

2. Name of Operator: TAP ROCK OPERATING, LLC

9. OGRID Number 372043

3. Address of Operator: 523 PARK POINT DR, SUITE 200, GOLDEN, CO 80401

10. Pool name or Wildcat: WC-025 G-09 S243310P;UPPER WOLFCAMP

4. Well Location
Unit Letter N : 347' feet from the South line and 1085' feet from the West line
Section 9 Township 24S Range 33E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3610 GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: Casing, BHL, and Unit Size Change ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Tap Rock Operating, LLC is requesting permission to alter the bottom hole location, the casing, and the unit size for the Poseidon State Com 221H.

Tap Rock would like change the bottom hole location of the Poseidon State Com 221H.
Previously approved Bottom Hole Location: 30 FNL, 760 FWL, Section 4, Township 24S, Range 33E
Proposed Bottom Hole Location: 30 FNL, 331 FWL, Section 4, Township 24S, Range 33E

Tap Rock is also requesting permission to change the unit size from the previously permitted 320 acres, to the attached plat of 640 acres.

Please see the attached casing plan and updated Plat for more detail.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE BRamsey TITLE Regulatory Analyst DATE 10/21/2021

Type or print name Bill Ramsey E-mail address: bramsey@taprk.com PHONE: 720-238-2787

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

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	[2]Pool Code	[3]Pool Name
30-025-48673	98135	WC-025 G-09 S243310P; UPPER WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
325667	POSEIDON STATE COM	221H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372043	TAP ROCK OPERATING, LLC.	3610'

[10]Surface Location

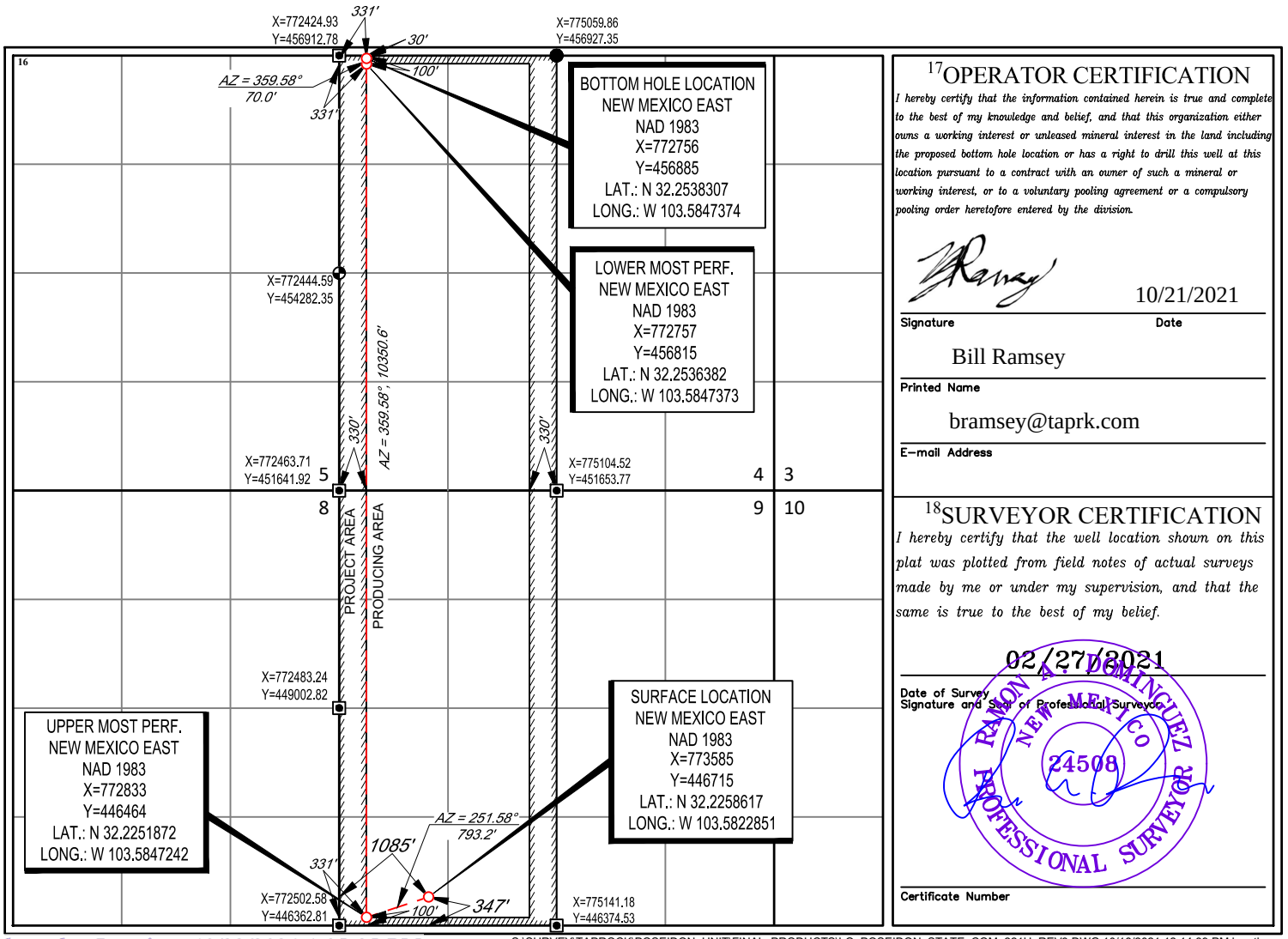
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	24-S	33-E	–	347'	SOUTH	1085'	WEST	LEA

[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
4	4	24-S	33-E	–	30'	NORTH	331'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640			

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: 10/21/2021

Bill Ramsey
Printed Name

bramsey@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.

02/27/2021
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

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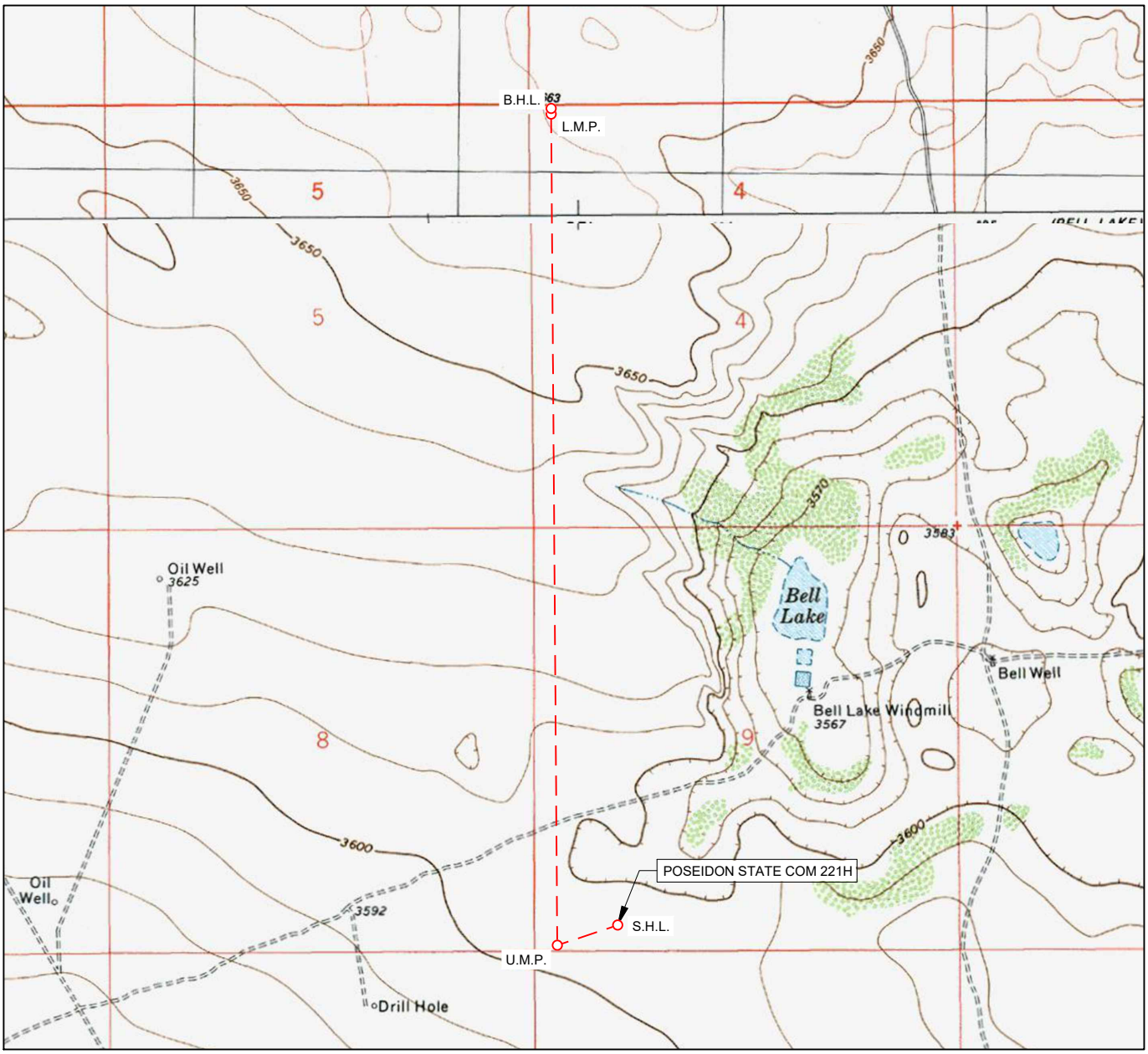
LOCATION & ELEVATION VERIFICATION MAP

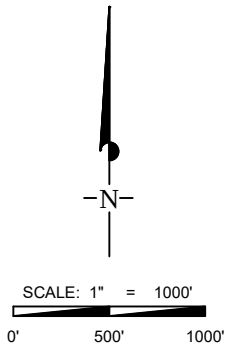


TAP ROCK

LEASE NAME & WELL NO.: POSEIDON STATE COM 221H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3610'
DESCRIPTION 347' FSL & 1085' FWL

LATITUDE N 32.2258617 LONGITUDE W 103.5822851



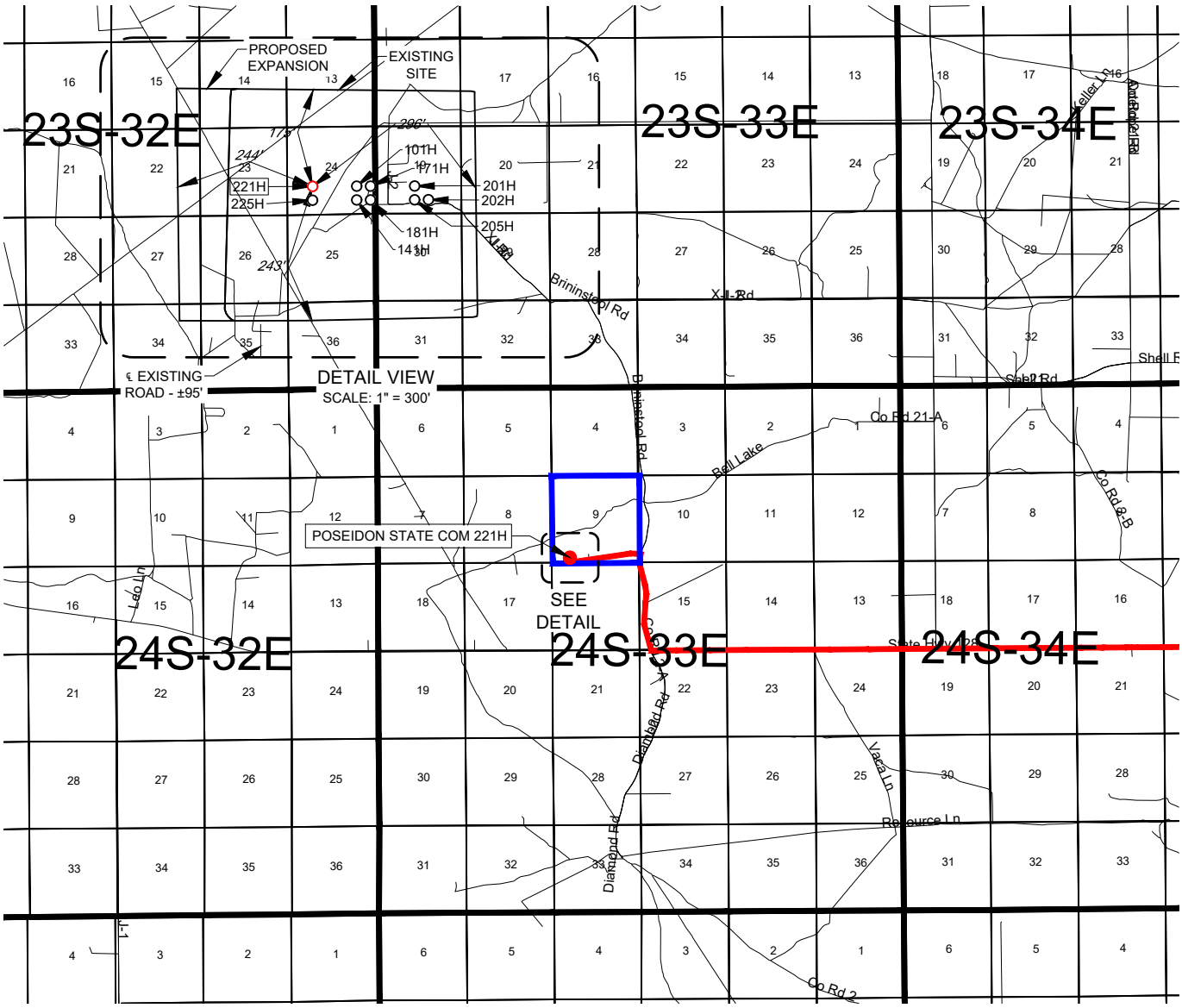
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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.: POSEIDON STATE COM 221H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 347' FSL & 1085' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-128 W & NM-18S, GO WEST ON NM-128 W ±23.9 MILES, THENCE NORTH (RIGHT) ON BRININSTOOL. RD. 2-A ±1.1 MILES, THENCE WEST (LEFT) ON LEASE RD. ±0.9 MILE, THENCE NORTH (RIGHT) ON ACCESS RD. ±95 FEET,TO A POINT ±262 FEET SOUTHWEST OF THE LOCATION.

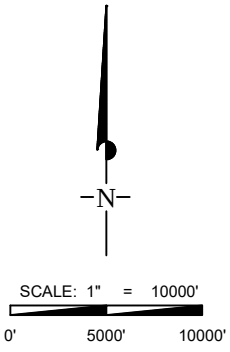


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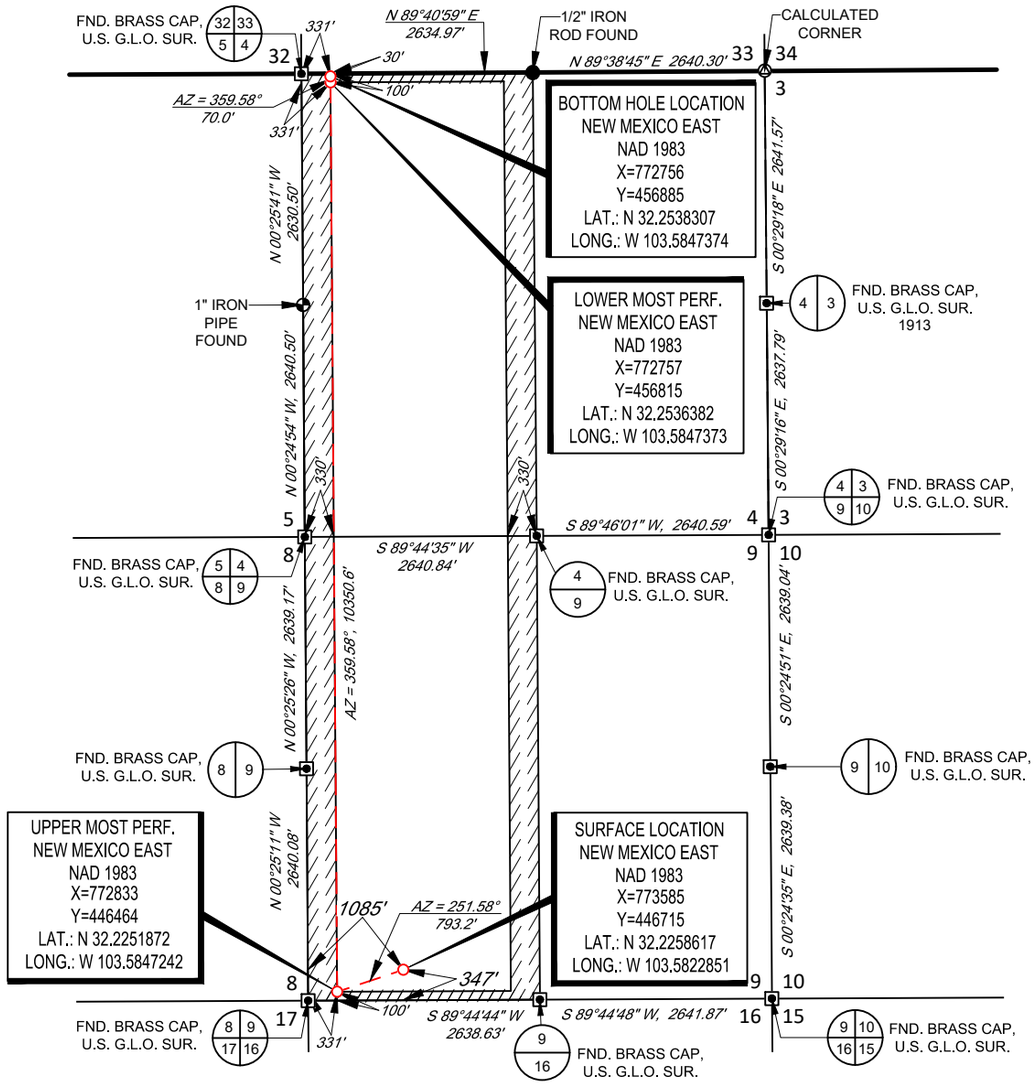
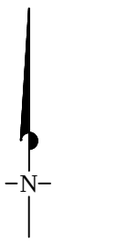
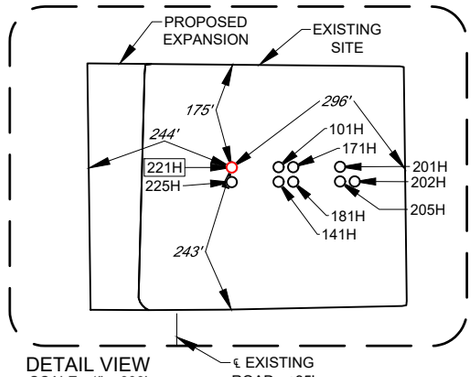
EXHIBIT 2A

SECTION 9, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO





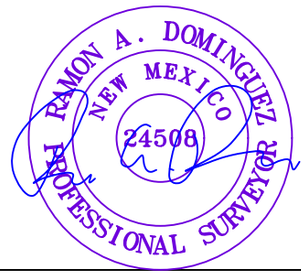


DETAIL VIEW
SCALE: 1" = 300'

LEASE NAME & WELL NO.: POSEIDON STATE COM 221H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 347' FSL & 1085' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-128 W & NM-18S, GO WEST ON NM-128 W ±23.9 MILES, THENCE NORTH (RIGHT) ON BRININSTOOL. RD. 2-A ±1.1 MILES, THENCE WEST (LEFT) ON LEASE RD. ±0.9 MILE, THENCE NORTH (RIGHT) ON ACCESS RD. ±95 FEET,TO A POINT ±262 FEET SOUTHWEST OF THE LOCATION.



Ramon A. Dominguez, P.S. No. 24508
OCTOBER 15, 2021

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.

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TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

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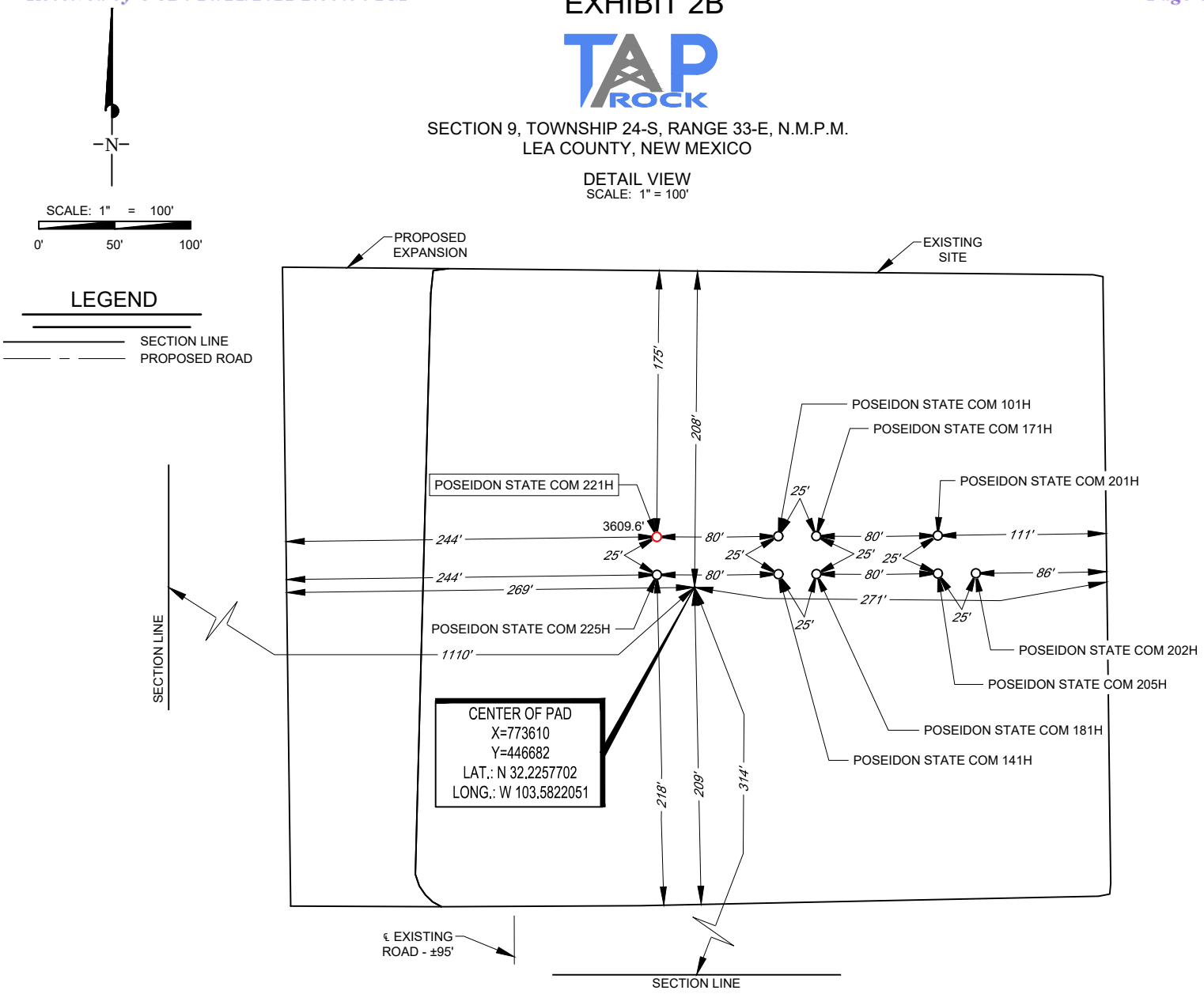
EXHIBIT 2B

SECTION 9, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: POSEIDON STATE COM 221H

221H LATITUDE N 32.2258617 221H LONGITUDE W 103.5822851

CENTER OF PAD IS 314' FSL & 1110' FWL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

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"

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
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POSEIDON STATE COM 221H

Interval	Hole Size	Casing OD	Casing Weight	Casing Grade	Set Depth	Sacks of Cement	Planned TOC	Mud Type
Surface	17.5	13.375	54.5	J-55	1300	1119	0	Fresh Water
Intermediate	9.875 8.75	7.625 7.625	29.7 29.7	P-110 P-110	9200 12510	1886	0	Diesel Brine
Production	6.75	5.5	20	P-110	23390	842	12310	OBM

Intermediate mud system will be the direct brine emulsion fluid (brine based with diesel emulsified in it). Tap Rock requests the option of switching to a two stage cement job on the 7-5/8'' intermediate casing string with the first stage lead and tail being pumped conventionally with the calculated top of cement to surface. If necessary, the second stage will be performed as a bradenhead squeeze with planned cement from the Brushy Canyon (anticipated loss zone) to surface if cement is not circulated to surface during the first stage. Additionally, a top out consisting of Class C cement will be executed as needed after the first two stages. Tap Rock also requests the option to run a DV tool, the depth will be adjusted depending on current hole conditions. Cement volumes will be adjusted accordingly. The DV tool will not be set shallower than 50' below the previous casing shoe and will not be set deeper than 200' above the current casing shoe. If cement is not circulated to surface on the 1st stage job, the 2nd stage will be pumped as planned. The DVT set depth will be between 5,000-6,000'.

Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Poseidon) Sec-9_T-24-E_R-33-E
Poseidon State Com #221H

OWB

Plan: Plan #2

Standard Planning Report

21 October, 2021

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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 (Poseidon) Sec-9_T-24-E_R-33-E

Site Position:		**Northing:**	446,745.00 usft	**Latitude:**	32° 13' 33.403 N
From:	Map	**Easting:**	773,665.00 usft	**Longitude:**	103° 34' 55.279 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well Poseidon State Com #221H

Well Position	**+N/-S**	-30.0 usft	**Northing:**	446,715.00 usft	**Latitude:**	32° 13' 33.112 N
	+E/-W	-80.0 usft	**Easting:**	773,585.00 usft	**Longitude:**	103° 34' 56.213 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,610.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/01/21	6.56	60.01	47,555.97658449

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)	Direction (°)
	0.0	0.0	0.0	359.58

Plan Survey Tool Program **Date** 10/21/21

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,392.0	Plan #2 (OWB)	MWD	
				OWSG MWD - Standard	

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	1.00	0.00	1,600.0	0.9	0.0	1.00	1.00	0.00	0.00	
3,200.2	1.00	0.00	3,200.0	28.8	0.0	0.00	0.00	0.00	0.00	
3,903.1	6.50	241.85	3,901.4	16.1	-35.1	1.00	0.78	-16.81	-125.32	
8,935.3	6.50	241.85	8,901.3	-252.6	-537.5	0.00	0.00	0.00	0.00	
9,585.4	0.00	0.00	9,550.0	-270.0	-570.0	1.00	-1.00	0.00	180.00	
12,609.4	0.00	0.00	12,574.0	-270.0	-570.0	0.00	0.00	0.00	0.00	
13,509.4	90.00	350.00	13,147.0	294.3	-669.5	10.00	10.00	0.00	350.00	
13,792.4	90.00	350.00	13,147.0	573.0	-718.6	0.00	0.00	0.00	0.00	
14,271.5	90.00	359.58	13,147.0	1,049.5	-762.1	2.00	0.00	2.00	90.01	
16,716.5	90.00	359.58	13,147.0	3,494.4	-779.9	0.00	0.00	0.00	0.00	3500'VS (Poseidon
16,731.5	90.30	359.58	13,147.0	3,509.5	-780.0	2.00	2.00	-0.02	-0.60	
21,716.5	90.30	359.58	13,120.8	8,494.2	-816.7	0.00	0.00	0.00	0.00	8500'VS (Poseidon
21,731.6	90.00	359.58	13,120.8	8,509.3	-816.8	2.00	-2.00	0.00	180.00	
23,392.3	90.00	359.58	13,120.8	10,170.0	-829.0	0.00	0.00	0.00	0.00	PBHL (Poseidon St

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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	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	1.00	0.00	1,600.0	0.9	0.0	0.9	1.00	1.00	0.00
1,700.0	1.00	0.00	1,700.0	2.6	0.0	2.6	0.00	0.00	0.00
1,800.0	1.00	0.00	1,800.0	4.4	0.0	4.4	0.00	0.00	0.00
1,900.0	1.00	0.00	1,899.9	6.1	0.0	6.1	0.00	0.00	0.00
2,000.0	1.00	0.00	1,999.9	7.9	0.0	7.9	0.00	0.00	0.00
2,100.0	1.00	0.00	2,099.9	9.6	0.0	9.6	0.00	0.00	0.00
2,200.0	1.00	0.00	2,199.9	11.3	0.0	11.3	0.00	0.00	0.00
2,300.0	1.00	0.00	2,299.9	13.1	0.0	13.1	0.00	0.00	0.00
2,400.0	1.00	0.00	2,399.9	14.8	0.0	14.8	0.00	0.00	0.00
2,500.0	1.00	0.00	2,499.9	16.6	0.0	16.6	0.00	0.00	0.00
2,600.0	1.00	0.00	2,599.8	18.3	0.0	18.3	0.00	0.00	0.00
2,700.0	1.00	0.00	2,699.8	20.1	0.0	20.1	0.00	0.00	0.00
2,800.0	1.00	0.00	2,799.8	21.8	0.0	21.8	0.00	0.00	0.00
2,900.0	1.00	0.00	2,899.8	23.6	0.0	23.6	0.00	0.00	0.00
3,000.0	1.00	0.00	2,999.8	25.3	0.0	25.3	0.00	0.00	0.00
3,100.0	1.00	0.00	3,099.8	27.1	0.0	27.1	0.00	0.00	0.00
3,200.2	1.00	0.00	3,200.0	28.8	0.0	28.8	0.00	0.00	0.00
3,300.0	0.92	297.47	3,299.7	30.0	-0.7	30.0	1.00	-0.08	-62.68
3,400.0	1.64	264.56	3,399.7	30.3	-2.8	30.3	1.00	0.72	-32.91
3,500.0	2.55	253.30	3,499.6	29.5	-6.4	29.5	1.00	0.92	-11.26
3,600.0	3.52	248.08	3,599.5	27.7	-11.4	27.8	1.00	0.96	-5.22
3,700.0	4.49	245.11	3,699.3	24.9	-17.8	25.1	1.00	0.98	-2.97
3,800.0	5.48	243.21	3,798.9	21.1	-25.6	21.3	1.00	0.99	-1.90
3,903.1	6.50	241.85	3,901.4	16.1	-35.1	16.4	1.00	0.99	-1.32
4,000.0	6.50	241.85	3,997.7	11.0	-44.8	11.3	0.00	0.00	0.00
4,100.0	6.50	241.85	4,097.1	5.6	-54.8	6.0	0.00	0.00	0.00
4,200.0	6.50	241.85	4,196.4	0.3	-64.8	0.8	0.00	0.00	0.00
4,300.0	6.50	241.85	4,295.8	-5.1	-74.8	-4.5	0.00	0.00	0.00
4,400.0	6.50	241.85	4,395.1	-10.4	-84.7	-9.8	0.00	0.00	0.00
4,500.0	6.50	241.85	4,494.5	-15.7	-94.7	-15.0	0.00	0.00	0.00
4,600.0	6.50	241.85	4,593.8	-21.1	-104.7	-20.3	0.00	0.00	0.00
4,700.0	6.50	241.85	4,693.2	-26.4	-114.7	-25.6	0.00	0.00	0.00
4,800.0	6.50	241.85	4,792.6	-31.8	-124.7	-30.8	0.00	0.00	0.00
4,900.0	6.50	241.85	4,891.9	-37.1	-134.7	-36.1	0.00	0.00	0.00
5,000.0	6.50	241.85	4,991.3	-42.4	-144.6	-41.4	0.00	0.00	0.00
5,100.0	6.50	241.85	5,090.6	-47.8	-154.6	-46.6	0.00	0.00	0.00
5,200.0	6.50	241.85	5,190.0	-53.1	-164.6	-51.9	0.00	0.00	0.00
5,300.0	6.50	241.85	5,289.3	-58.5	-174.6	-57.2	0.00	0.00	0.00

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Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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)
5,400.0	6.50	241.85	5,388.7	-63.8	-184.6	-62.4	0.00	0.00	0.00
5,500.0	6.50	241.85	5,488.0	-69.1	-194.6	-67.7	0.00	0.00	0.00
5,600.0	6.50	241.85	5,587.4	-74.5	-204.5	-73.0	0.00	0.00	0.00
5,700.0	6.50	241.85	5,686.8	-79.8	-214.5	-78.2	0.00	0.00	0.00
5,800.0	6.50	241.85	5,786.1	-85.2	-224.5	-83.5	0.00	0.00	0.00
5,900.0	6.50	241.85	5,885.5	-90.5	-234.5	-88.8	0.00	0.00	0.00
6,000.0	6.50	241.85	5,984.8	-95.8	-244.5	-94.1	0.00	0.00	0.00
6,100.0	6.50	241.85	6,084.2	-101.2	-254.5	-99.3	0.00	0.00	0.00
6,200.0	6.50	241.85	6,183.5	-106.5	-264.4	-104.6	0.00	0.00	0.00
6,300.0	6.50	241.85	6,282.9	-111.9	-274.4	-109.9	0.00	0.00	0.00
6,400.0	6.50	241.85	6,382.3	-117.2	-284.4	-115.1	0.00	0.00	0.00
6,500.0	6.50	241.85	6,481.6	-122.6	-294.4	-120.4	0.00	0.00	0.00
6,600.0	6.50	241.85	6,581.0	-127.9	-304.4	-125.7	0.00	0.00	0.00
6,700.0	6.50	241.85	6,680.3	-133.2	-314.4	-130.9	0.00	0.00	0.00
6,800.0	6.50	241.85	6,779.7	-138.6	-324.3	-136.2	0.00	0.00	0.00
6,900.0	6.50	241.85	6,879.0	-143.9	-334.3	-141.5	0.00	0.00	0.00
7,000.0	6.50	241.85	6,978.4	-149.3	-344.3	-146.7	0.00	0.00	0.00
7,100.0	6.50	241.85	7,077.8	-154.6	-354.3	-152.0	0.00	0.00	0.00
7,200.0	6.50	241.85	7,177.1	-159.9	-364.3	-157.3	0.00	0.00	0.00
7,300.0	6.50	241.85	7,276.5	-165.3	-374.3	-162.5	0.00	0.00	0.00
7,400.0	6.50	241.85	7,375.8	-170.6	-384.2	-167.8	0.00	0.00	0.00
7,500.0	6.50	241.85	7,475.2	-176.0	-394.2	-173.1	0.00	0.00	0.00
7,600.0	6.50	241.85	7,574.5	-181.3	-404.2	-178.3	0.00	0.00	0.00
7,700.0	6.50	241.85	7,673.9	-186.6	-414.2	-183.6	0.00	0.00	0.00
7,800.0	6.50	241.85	7,773.3	-192.0	-424.2	-188.9	0.00	0.00	0.00
7,900.0	6.50	241.85	7,872.6	-197.3	-434.2	-194.1	0.00	0.00	0.00
8,000.0	6.50	241.85	7,972.0	-202.7	-444.1	-199.4	0.00	0.00	0.00
8,100.0	6.50	241.85	8,071.3	-208.0	-454.1	-204.7	0.00	0.00	0.00
8,200.0	6.50	241.85	8,170.7	-213.3	-464.1	-209.9	0.00	0.00	0.00
8,300.0	6.50	241.85	8,270.0	-218.7	-474.1	-215.2	0.00	0.00	0.00
8,400.0	6.50	241.85	8,369.4	-224.0	-484.1	-220.5	0.00	0.00	0.00
8,500.0	6.50	241.85	8,468.8	-229.4	-494.1	-225.7	0.00	0.00	0.00
8,600.0	6.50	241.85	8,568.1	-234.7	-504.0	-231.0	0.00	0.00	0.00
8,700.0	6.50	241.85	8,667.5	-240.1	-514.0	-236.3	0.00	0.00	0.00
8,800.0	6.50	241.85	8,766.8	-245.4	-524.0	-241.5	0.00	0.00	0.00
8,900.0	6.50	241.85	8,866.2	-250.7	-534.0	-246.8	0.00	0.00	0.00
8,935.3	6.50	241.85	8,901.3	-252.6	-537.5	-248.7	0.00	0.00	0.00
9,000.0	5.85	241.85	8,965.6	-255.9	-543.7	-251.9	1.00	-1.00	0.00
9,100.0	4.85	241.85	9,065.1	-260.3	-551.9	-256.3	1.00	-1.00	0.00
9,200.0	3.85	241.85	9,164.9	-263.9	-558.6	-259.8	1.00	-1.00	0.00
9,300.0	2.85	241.85	9,264.7	-266.6	-563.7	-262.5	1.00	-1.00	0.00
9,400.0	1.85	241.85	9,364.6	-268.6	-567.4	-264.4	1.00	-1.00	0.00
9,500.0	0.85	241.85	9,464.6	-269.7	-569.4	-265.5	1.00	-1.00	0.00
9,585.4	0.00	0.00	9,550.0	-270.0	-570.0	-265.8	1.00	-1.00	0.00
9,600.0	0.00	0.00	9,564.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,664.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,764.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,864.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,964.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,064.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,164.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,264.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,364.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,464.6	-270.0	-570.0	-265.8	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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)
10,600.0	0.00	0.00	10,564.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,664.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,764.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,864.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,964.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,064.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,164.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,264.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,364.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,464.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,564.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,664.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,764.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
11,900.0	0.00	0.00	11,864.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,964.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,100.0	0.00	0.00	12,064.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,200.0	0.00	0.00	12,164.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,300.0	0.00	0.00	12,264.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,400.0	0.00	0.00	12,364.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,500.0	0.00	0.00	12,464.6	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,609.4	0.00	0.00	12,574.0	-270.0	-570.0	-265.8	0.00	0.00	0.00
12,650.0	4.06	350.00	12,614.5	-268.6	-570.2	-264.4	10.00	10.00	0.00
12,700.0	9.06	350.00	12,664.2	-263.0	-571.2	-258.8	10.00	10.00	0.00
12,750.0	14.06	350.00	12,713.2	-253.1	-573.0	-248.9	10.00	10.00	0.00
12,800.0	19.06	350.00	12,761.1	-239.1	-575.5	-234.9	10.00	10.00	0.00
12,850.0	24.06	350.00	12,807.6	-221.0	-578.6	-216.7	10.00	10.00	0.00
12,900.0	29.06	350.00	12,852.3	-199.0	-582.5	-194.7	10.00	10.00	0.00
12,950.0	34.06	350.00	12,894.9	-173.2	-587.1	-168.9	10.00	10.00	0.00
13,000.0	39.06	350.00	12,935.0	-143.9	-592.2	-139.6	10.00	10.00	0.00
13,050.0	44.06	350.00	12,972.4	-111.3	-598.0	-106.9	10.00	10.00	0.00
13,100.0	49.06	350.00	13,006.8	-75.5	-604.3	-71.1	10.00	10.00	0.00
13,150.0	54.06	350.00	13,037.9	-37.0	-611.1	-32.5	10.00	10.00	0.00
13,200.0	59.06	350.00	13,065.4	4.1	-618.3	8.7	10.00	10.00	0.00
13,250.0	64.06	350.00	13,089.2	47.4	-626.0	52.0	10.00	10.00	0.00
13,300.0	69.06	350.00	13,109.1	92.6	-633.9	97.2	10.00	10.00	0.00
13,350.0	74.06	350.00	13,124.9	139.3	-642.2	144.0	10.00	10.00	0.00
13,400.0	79.06	350.00	13,136.5	187.1	-650.6	191.9	10.00	10.00	0.00
13,450.0	84.06	350.00	13,143.9	235.8	-659.2	240.7	10.00	10.00	0.00
13,500.0	89.06	350.00	13,146.9	285.0	-667.9	289.8	10.00	10.00	0.00
13,509.4	90.00	350.00	13,147.0	294.3	-669.5	299.2	10.00	10.00	0.00
13,600.0	90.00	350.00	13,147.0	383.4	-685.2	388.5	0.00	0.00	0.00
13,700.0	90.00	350.00	13,147.0	481.9	-702.6	487.1	0.00	0.00	0.00
13,792.4	90.00	350.00	13,147.0	573.0	-718.6	578.2	0.00	0.00	0.00
13,800.0	90.00	350.15	13,147.0	580.4	-719.9	585.7	2.00	0.00	2.00
13,900.0	90.00	352.15	13,147.0	679.2	-735.3	684.6	2.00	0.00	2.00
14,000.0	90.00	354.15	13,147.0	778.5	-747.2	783.9	2.00	0.00	2.00
14,100.0	90.00	356.15	13,147.0	878.1	-755.7	883.6	2.00	0.00	2.00
14,200.0	90.00	358.15	13,147.0	978.0	-760.7	983.5	2.00	0.00	2.00
14,271.5	90.00	359.58	13,147.0	1,049.5	-762.1	1,055.1	2.00	0.00	2.00
14,300.0	90.00	359.58	13,147.0	1,078.0	-762.3	1,083.5	0.00	0.00	0.00
14,400.0	90.00	359.58	13,147.0	1,178.0	-763.0	1,183.5	0.00	0.00	0.00
14,500.0	90.00	359.58	13,147.0	1,278.0	-763.7	1,283.5	0.00	0.00	0.00
14,600.0	90.00	359.58	13,147.0	1,378.0	-764.5	1,383.5	0.00	0.00	0.00
14,700.0	90.00	359.58	13,147.0	1,478.0	-765.2	1,483.5	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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	90.00	359.58	13,147.0	1,578.0	-765.9	1,583.5	0.00	0.00	0.00
14,900.0	90.00	359.58	13,147.0	1,678.0	-766.7	1,683.5	0.00	0.00	0.00
15,000.0	90.00	359.58	13,147.0	1,778.0	-767.4	1,783.5	0.00	0.00	0.00
15,100.0	90.00	359.58	13,147.0	1,878.0	-768.1	1,883.5	0.00	0.00	0.00
15,200.0	90.00	359.58	13,147.0	1,978.0	-768.9	1,983.5	0.00	0.00	0.00
15,300.0	90.00	359.58	13,147.0	2,078.0	-769.6	2,083.5	0.00	0.00	0.00
15,400.0	90.00	359.58	13,147.0	2,178.0	-770.3	2,183.5	0.00	0.00	0.00
15,500.0	90.00	359.58	13,147.0	2,278.0	-771.0	2,283.5	0.00	0.00	0.00
15,600.0	90.00	359.58	13,147.0	2,377.9	-771.8	2,383.5	0.00	0.00	0.00
15,700.0	90.00	359.58	13,147.0	2,477.9	-772.5	2,483.5	0.00	0.00	0.00
15,800.0	90.00	359.58	13,147.0	2,577.9	-773.2	2,583.5	0.00	0.00	0.00
15,900.0	90.00	359.58	13,147.0	2,677.9	-774.0	2,683.5	0.00	0.00	0.00
16,000.0	90.00	359.58	13,147.0	2,777.9	-774.7	2,783.5	0.00	0.00	0.00
16,100.0	90.00	359.58	13,147.0	2,877.9	-775.4	2,883.5	0.00	0.00	0.00
16,200.0	90.00	359.58	13,147.0	2,977.9	-776.2	2,983.5	0.00	0.00	0.00
16,300.0	90.00	359.58	13,147.0	3,077.9	-776.9	3,083.5	0.00	0.00	0.00
16,400.0	90.00	359.58	13,147.0	3,177.9	-777.6	3,183.5	0.00	0.00	0.00
16,500.0	90.00	359.58	13,147.0	3,277.9	-778.3	3,283.5	0.00	0.00	0.00
16,600.0	90.00	359.58	13,147.0	3,377.9	-779.1	3,383.5	0.00	0.00	0.00
16,700.0	90.00	359.58	13,147.0	3,477.9	-779.8	3,483.5	0.00	0.00	0.00
16,716.5	90.00	359.58	13,147.0	3,494.4	-779.9	3,500.0	0.00	0.00	0.00
16,731.5	90.30	359.58	13,147.0	3,509.5	-780.0	3,515.1	2.00	2.00	-0.02
16,800.0	90.30	359.58	13,146.6	3,577.9	-780.5	3,583.5	0.00	0.00	0.00
16,900.0	90.30	359.58	13,146.1	3,677.9	-781.3	3,683.5	0.00	0.00	0.00
17,000.0	90.30	359.58	13,145.6	3,777.9	-782.0	3,783.5	0.00	0.00	0.00
17,100.0	90.30	359.58	13,145.0	3,877.9	-782.7	3,883.5	0.00	0.00	0.00
17,200.0	90.30	359.58	13,144.5	3,977.9	-783.5	3,983.5	0.00	0.00	0.00
17,300.0	90.30	359.58	13,144.0	4,077.9	-784.2	4,083.5	0.00	0.00	0.00
17,400.0	90.30	359.58	13,143.5	4,177.9	-784.9	4,183.5	0.00	0.00	0.00
17,500.0	90.30	359.58	13,142.9	4,277.9	-785.7	4,283.5	0.00	0.00	0.00
17,600.0	90.30	359.58	13,142.4	4,377.9	-786.4	4,383.5	0.00	0.00	0.00
17,700.0	90.30	359.58	13,141.9	4,477.9	-787.2	4,483.5	0.00	0.00	0.00
17,800.0	90.30	359.58	13,141.4	4,577.9	-787.9	4,583.5	0.00	0.00	0.00
17,900.0	90.30	359.58	13,140.8	4,677.9	-788.6	4,683.5	0.00	0.00	0.00
18,000.0	90.30	359.58	13,140.3	4,777.9	-789.4	4,783.5	0.00	0.00	0.00
18,100.0	90.30	359.58	13,139.8	4,877.9	-790.1	4,883.5	0.00	0.00	0.00
18,200.0	90.30	359.58	13,139.3	4,977.9	-790.8	4,983.5	0.00	0.00	0.00
18,300.0	90.30	359.58	13,138.7	5,077.9	-791.6	5,083.5	0.00	0.00	0.00
18,400.0	90.30	359.58	13,138.2	5,177.9	-792.3	5,183.5	0.00	0.00	0.00
18,500.0	90.30	359.58	13,137.7	5,277.8	-793.0	5,283.5	0.00	0.00	0.00
18,600.0	90.30	359.58	13,137.2	5,377.8	-793.8	5,383.5	0.00	0.00	0.00
18,700.0	90.30	359.58	13,136.6	5,477.8	-794.5	5,483.5	0.00	0.00	0.00
18,800.0	90.30	359.58	13,136.1	5,577.8	-795.2	5,583.5	0.00	0.00	0.00
18,900.0	90.30	359.58	13,135.6	5,677.8	-796.0	5,683.5	0.00	0.00	0.00
19,000.0	90.30	359.58	13,135.1	5,777.8	-796.7	5,783.5	0.00	0.00	0.00
19,100.0	90.30	359.58	13,134.5	5,877.8	-797.4	5,883.5	0.00	0.00	0.00
19,200.0	90.30	359.58	13,134.0	5,977.8	-798.2	5,983.5	0.00	0.00	0.00
19,300.0	90.30	359.58	13,133.5	6,077.8	-798.9	6,083.5	0.00	0.00	0.00
19,400.0	90.30	359.58	13,133.0	6,177.8	-799.6	6,183.5	0.00	0.00	0.00
19,500.0	90.30	359.58	13,132.4	6,277.8	-800.4	6,283.5	0.00	0.00	0.00
19,600.0	90.30	359.58	13,131.9	6,377.8	-801.1	6,383.5	0.00	0.00	0.00
19,700.0	90.30	359.58	13,131.4	6,477.8	-801.9	6,483.5	0.00	0.00	0.00
19,800.0	90.30	359.58	13,130.9	6,577.8	-802.6	6,583.5	0.00	0.00	0.00
19,900.0	90.30	359.58	13,130.3	6,677.8	-803.3	6,683.5	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**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)
20,000.0	90.30	359.58	13,129.8	6,777.8	-804.1	6,783.5	0.00	0.00	0.00
20,100.0	90.30	359.58	13,129.3	6,877.8	-804.8	6,883.5	0.00	0.00	0.00
20,200.0	90.30	359.58	13,128.8	6,977.8	-805.5	6,983.5	0.00	0.00	0.00
20,300.0	90.30	359.58	13,128.2	7,077.8	-806.3	7,083.5	0.00	0.00	0.00
20,400.0	90.30	359.58	13,127.7	7,177.8	-807.0	7,183.5	0.00	0.00	0.00
20,500.0	90.30	359.58	13,127.2	7,277.8	-807.7	7,283.5	0.00	0.00	0.00
20,600.0	90.30	359.58	13,126.7	7,377.8	-808.5	7,383.5	0.00	0.00	0.00
20,700.0	90.30	359.58	13,126.2	7,477.8	-809.2	7,483.5	0.00	0.00	0.00
20,800.0	90.30	359.58	13,125.6	7,577.8	-809.9	7,583.5	0.00	0.00	0.00
20,900.0	90.30	359.58	13,125.1	7,677.7	-810.7	7,683.5	0.00	0.00	0.00
21,000.0	90.30	359.58	13,124.6	7,777.7	-811.4	7,783.5	0.00	0.00	0.00
21,100.0	90.30	359.58	13,124.1	7,877.7	-812.1	7,883.5	0.00	0.00	0.00
21,200.0	90.30	359.58	13,123.5	7,977.7	-812.9	7,983.5	0.00	0.00	0.00
21,300.0	90.30	359.58	13,123.0	8,077.7	-813.6	8,083.5	0.00	0.00	0.00
21,400.0	90.30	359.58	13,122.5	8,177.7	-814.4	8,183.5	0.00	0.00	0.00
21,500.0	90.30	359.58	13,122.0	8,277.7	-815.1	8,283.5	0.00	0.00	0.00
21,600.0	90.30	359.58	13,121.4	8,377.7	-815.8	8,383.5	0.00	0.00	0.00
21,700.0	90.30	359.58	13,120.9	8,477.7	-816.6	8,483.5	0.00	0.00	0.00
21,716.5	90.30	359.58	13,120.8	8,494.2	-816.7	8,500.0	0.00	0.00	0.00
21,731.6	90.00	359.58	13,120.8	8,509.3	-816.8	8,515.0	2.00	-2.00	0.00
21,800.0	90.00	359.58	13,120.8	8,577.7	-817.3	8,583.5	0.00	0.00	0.00
21,900.0	90.00	359.58	13,120.8	8,677.7	-818.0	8,683.5	0.00	0.00	0.00
22,000.0	90.00	359.58	13,120.8	8,777.7	-818.8	8,783.5	0.00	0.00	0.00
22,100.0	90.00	359.58	13,120.8	8,877.7	-819.5	8,883.5	0.00	0.00	0.00
22,200.0	90.00	359.58	13,120.8	8,977.7	-820.2	8,983.5	0.00	0.00	0.00
22,300.0	90.00	359.58	13,120.8	9,077.7	-821.0	9,083.5	0.00	0.00	0.00
22,400.0	90.00	359.58	13,120.8	9,177.7	-821.7	9,183.5	0.00	0.00	0.00
22,500.0	90.00	359.58	13,120.8	9,277.7	-822.4	9,283.5	0.00	0.00	0.00
22,600.0	90.00	359.58	13,120.8	9,377.7	-823.2	9,383.5	0.00	0.00	0.00
22,700.0	90.00	359.58	13,120.8	9,477.7	-823.9	9,483.5	0.00	0.00	0.00
22,800.0	90.00	359.58	13,120.8	9,577.7	-824.6	9,583.5	0.00	0.00	0.00
22,900.0	90.00	359.58	13,120.8	9,677.7	-825.4	9,683.5	0.00	0.00	0.00
23,000.0	90.00	359.58	13,120.8	9,777.7	-826.1	9,783.5	0.00	0.00	0.00
23,100.0	90.00	359.58	13,120.8	9,877.7	-826.9	9,883.5	0.00	0.00	0.00
23,200.0	90.00	359.58	13,120.8	9,977.7	-827.6	9,983.5	0.00	0.00	0.00
23,300.0	90.00	359.58	13,120.8	10,077.7	-828.3	10,083.5	0.00	0.00	0.00
23,392.3	90.00	359.58	13,120.8	10,170.0	-829.0	10,175.8	0.00	0.00	0.00

Released to Imaging: 10/22/2021 1:35:25 PM

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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
8500'VS (Poseidon St - plan hits target center - Rectangle (sides W100.0 H5,000.0 D30.0)	-0.30	359.58	13,120.8	8,494.2	-816.7	455,209.20	772,768.32	32° 14' 57.220 N	103° 35' 5.031 W
LTP (Poseidon State (- plan misses target center by 22.3usft at 23300.0usft MD (13120.8 TVD, 10077.7 N, -828.3 E) - Point	0.00	0.00	13,120.8	10,100.0	-828.0	456,815.00	772,757.00	32° 15' 13.110 N	103° 35' 5.032 W
PBHL (Poseidon State - plan hits target center - Rectangle (sides W100.0 H1,675.9 D30.0)	0.00	359.58	13,120.8	10,170.0	-829.0	456,885.00	772,756.00	32° 15' 13.803 N	103° 35' 5.038 W
3500'VS (Poseidon St - plan hits target center - Rectangle (sides W100.0 H3,745.0 D30.0)	0.00	359.58	13,147.0	3,494.4	-779.9	450,209.40	772,805.08	32° 14' 7.743 N	103° 35' 5.009 W
FTP (Poseidon State (- plan misses target center by 268.4usft at 13089.6usft MD (12999.9 TVD, -83.2 N, -602.9 E) - Point	0.00	0.00	13,147.0	-251.0	-752.0	446,464.00	772,833.00	32° 13' 30.680 N	103° 35' 4.987 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,299.0	1,299.0	Rustler Anhydrite			
1,821.0	1,821.0	Top Salt			
4,971.6	4,963.0	Base Salt			
5,221.2	5,211.0	Delaware Mountain Gp			
5,228.2	5,218.0	Lamar			
5,248.3	5,238.0	Bell Canyon			
5,268.5	5,258.0	Ramsey Sand			
6,209.5	6,193.0	Cherry Canyon			
7,744.4	7,718.0	Brushy Canyon			
9,176.1	9,141.0	Bone Spring Lime			
9,306.3	9,271.0	Upper Avalon			
9,556.4	9,521.0	Middle Avalon			
9,991.4	9,956.0	Lower Avalon			
10,221.4	10,186.0	1st Bone Spring Sand			
10,510.4	10,475.0	2nd Bone Spring Carb			
10,881.4	10,846.0	2nd Bone Spring Sand			
11,447.4	11,412.0	3rd Bone Spring Carb			
12,042.4	12,007.0	3rd Bone Spring Sand			
12,334.4	12,299.0	3rd BS W Sand			
12,361.4	12,326.0	Wolfcamp A X Sand			
12,520.4	12,485.0	Wolfcamp A Y Sand			
12,615.4	12,580.0	Wolfcamp A Lower			
13,014.3	12,946.0	Wolfcamp B			
13,336.3	13,121.0	Wolfcamp B1			

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Poseidon State Com #221H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	**North Reference:**	Grid
Well:	Poseidon State Com #221H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	DRIFT NORTH - Build 1.00
1,600.0	1,600.0	0.9	0.0	HOLD - 1600.2 at 1600.0 MD
3,200.2	3,200.0	28.8	0.0	NUDGE - DLS 1.00 TFO -125.32
3,903.1	3,901.4	16.1	-35.1	HOLD - 5032.3 at 3903.1 MD
8,935.3	8,901.3	-252.6	-537.5	DROP - -1.00
9,585.4	9,550.0	-270.0	-570.0	HOLD - 3024.0 at 9585.4 MD
12,609.4	12,574.0	-270.0	-570.0	KOP - Build 10.00
13,509.4	13,147.0	294.3	-669.5	EOC - 283.0 hold at 13509.4 MD
13,792.4	13,147.0	573.0	-718.6	Start DLS 2.00 TFO 90.01
14,271.5	13,147.0	1,049.5	-762.1	Start 2444.9 hold at 14271.5 MD
16,716.5	13,147.0	3,494.4	-779.9	Start DLS 2.00 TFO -0.60
16,731.5	13,147.0	3,509.5	-780.0	Start 4984.9 hold at 16731.5 MD
21,716.5	13,120.8	8,494.2	-816.7	Start DLS 2.00 TFO 180.00
21,731.6	13,120.8	8,509.3	-816.8	Start 1660.8 hold at 21731.6 MD
23,392.3	13,120.8	10,170.0	-829.0	TD at 23392.3

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 57385

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 57385
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	NOTE: POOLNAME AND POOL CODE WAS INCORRECT ON THE SUBMITTED C-102. POOL CODE AND POOLNAME WERE CHANGED TO REFLECT THE CORRECT POOLS.	10/22/2021