

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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-48671
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Poseidon State Com
8. Well Number 225H
9. OGRID Number 372043
10. Pool name or Wildcat WC-025 G-09 S243310P;UPPER WOLFCAMP
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3610 GR

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator TAP ROCK OPERATING, LLC	
3. Address of Operator 523 PARK POINT DR, SUITE 200, GOLDEN, CO 80401	
4. Well Location Unit Letter <u>M</u> : <u>322'</u> feet from the <u>South</u> line and <u>1085'</u> feet from the <u>West</u> line Section <u>9</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>	
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 ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: Name Change, 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 name, the bottom hole location, the casing, formation, and the unit size for the previously approved Poseidon State Com 151H.

Tap Rock would like to change the name from the previously permitted Poseidon State Com 151H to the Poseidon State Com 225H.

This sundry will also alter the target formation from the TRIPLE X;BONE SPRING, WEST to the WC-025 G-09 S243310P;UPPER WOLFCAMP.

Tap Rock would like change the bottom hole location of the Poseidon State Com 225H.

Previously approved Bottom Hole Location: 30 FNL, 990 FWL, Section 4, Township 24S, Range 33E

Proposed Bottom Hole Location: 30 FNL, 1320 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  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
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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 30-025-48671		² Pool Code 98135		³ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP	
⁴ Property Code 325667		⁵ Property Name POSEIDON STATE COM			⁶ Well Number 225H
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3610'

¹⁰Surface Location

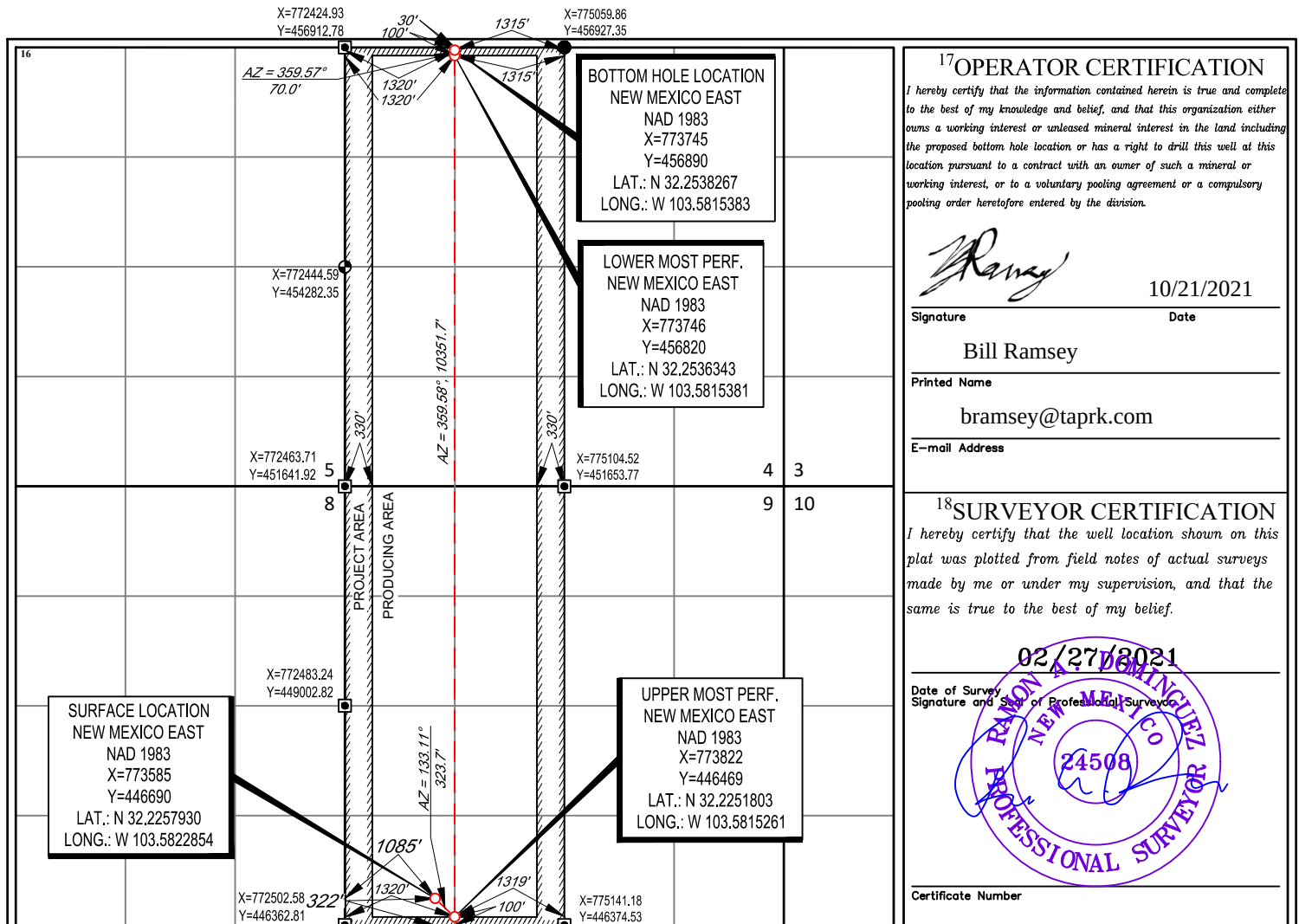
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	24-S	33-E	-	322'	SOUTH	1085'	WEST	LEA

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
3	4	24-S	33-E	-	30'	NORTH	1320'	WEST	LEA

¹² Dedicated Acres 640	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.

Bill Ramsey

10/21/2021

Signature

Date

Bill Ramsey

Printed Name

bramsey@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.

02/27/2021

Date of Survey

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

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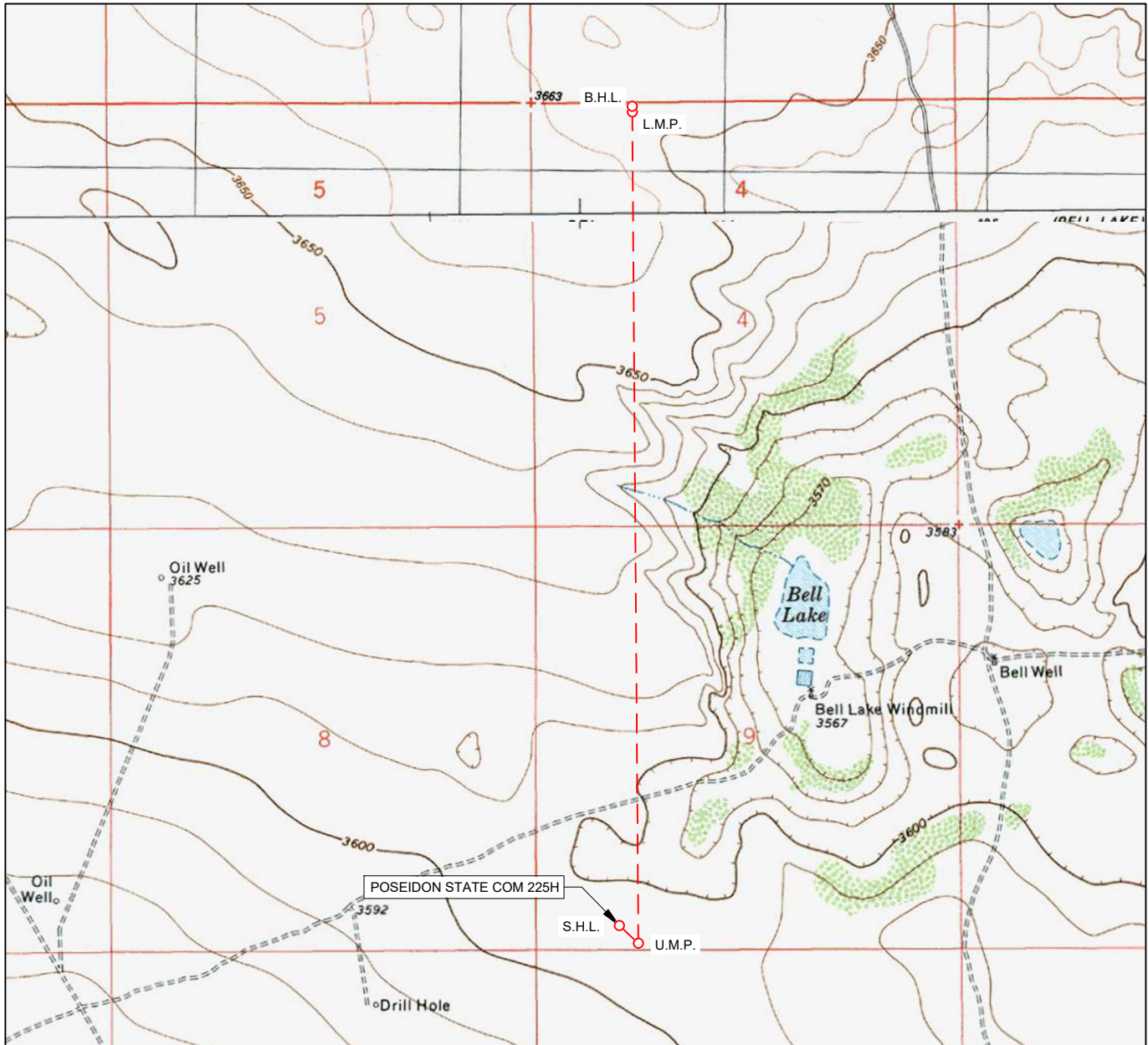
Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 225H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3610'
 DESCRIPTION 322' FSL & 1085' FWL

LATITUDE N 32.2257930 LONGITUDE W 103.5822854

SCALE: 1" = 1000'
 0' 500' 1000'

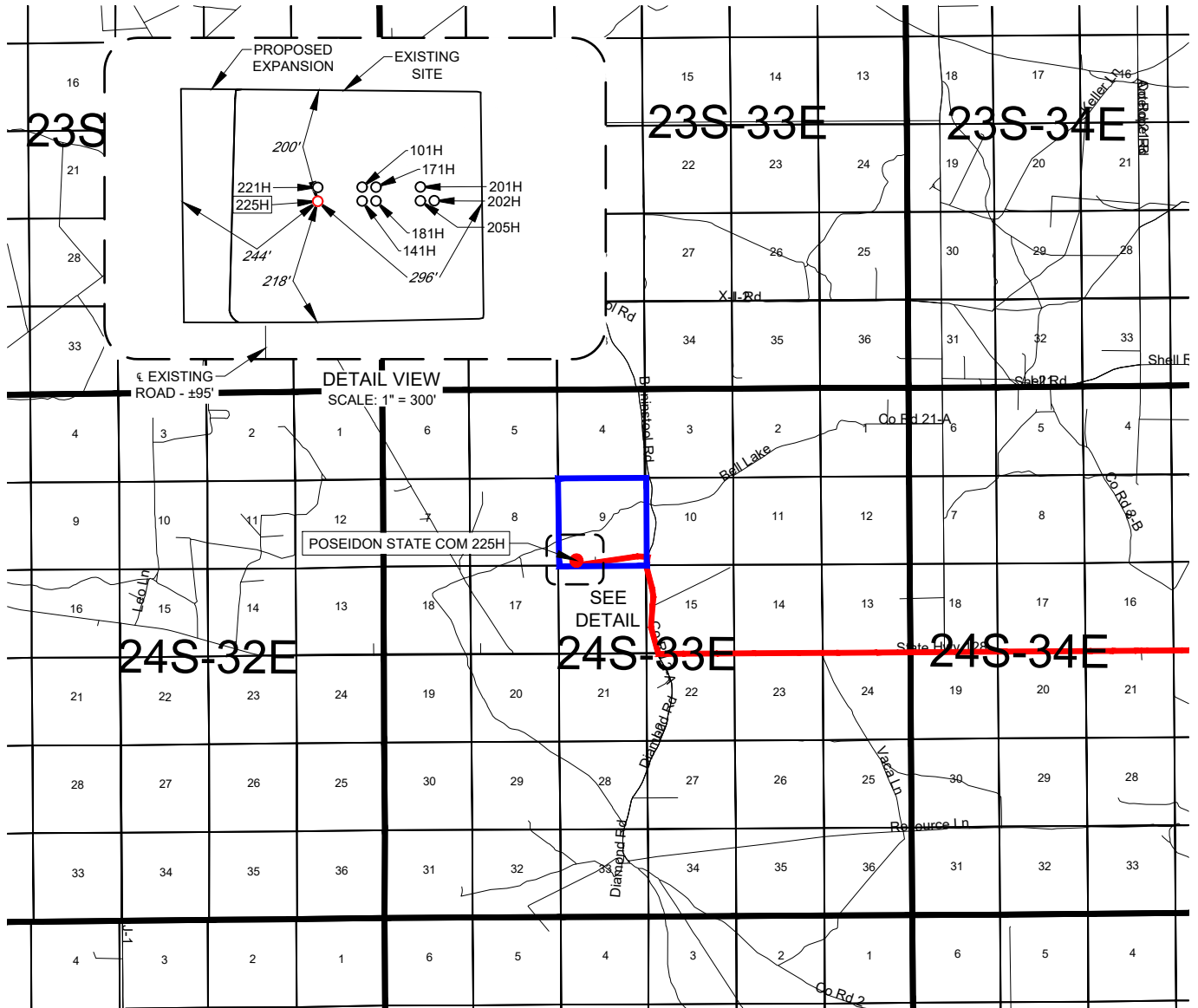
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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.: POSEIDON STATE COM 225H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 322' 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 ± 239 FEET
 SOUTHWEST OF THE LOCATION.



SCALE: 1" = 10000'
 0' 5000' 10000'



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

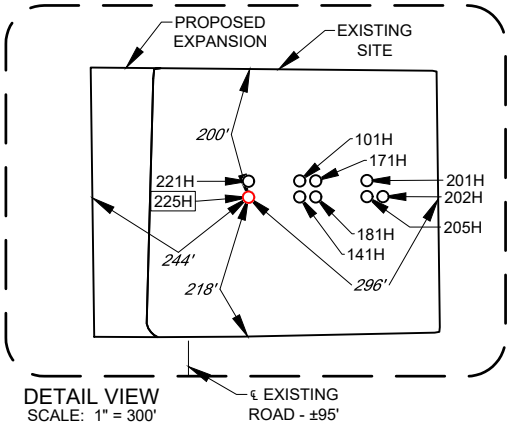
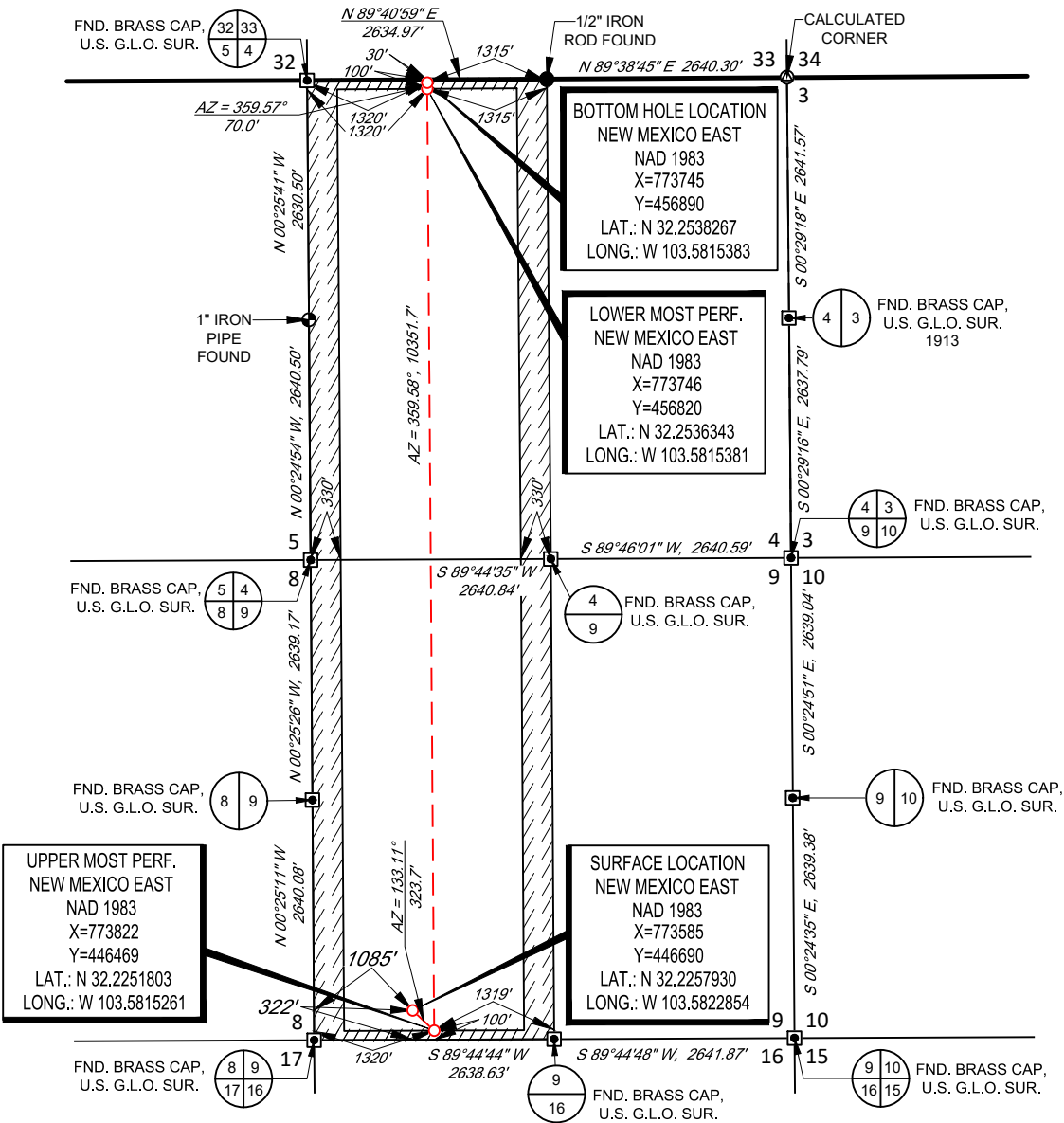
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THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED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

TAP
ROCK
EXHIBIT 2A

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



LEASE NAME & WELL NO.: POSEIDON STATE COM 225H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 322' 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 ±239 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
OCTOBER 15, 2021

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 2B



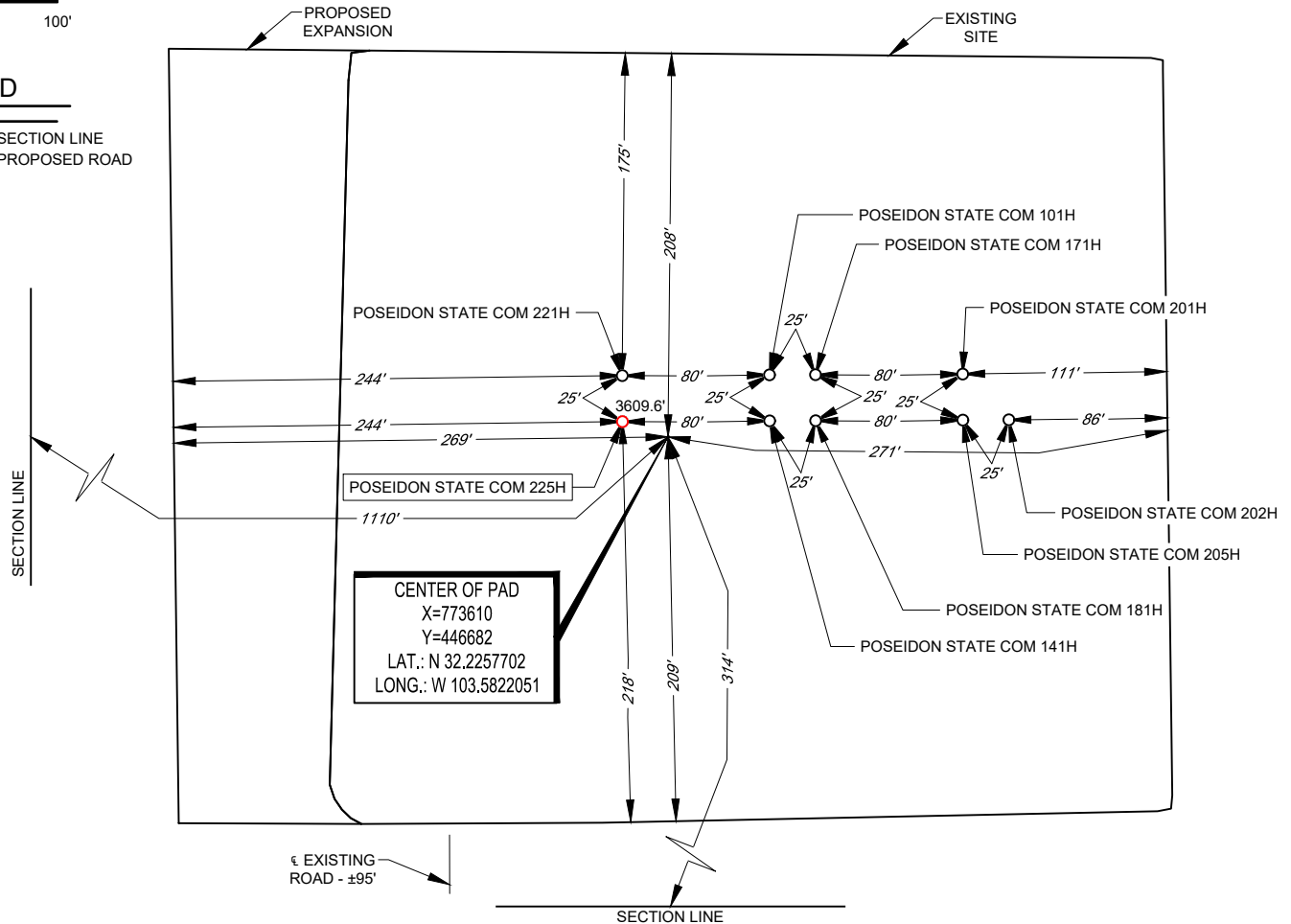
SECTION 9, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

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

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: POSEIDON STATE COM 225H
225H LATITUDE N 32.2257930 225H LONGITUDE W 103.5822854

CENTER OF PAD IS 314' FSL & 1110' FWL



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"



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WWW.TOPOGRAPHIC.COM

POSEIDON STATE COM 225H

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	7.625	29.7	P-110	9200	1875	0	Diesel Brine
	8.75	7.625	29.7	P-110	12430			
Production	6.75	5.5	20	P-110	23340	844	12230	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-S_R-33-E
Poseidon State Com #225H**

OWB

Plan: Plan #1

Standard Planning Report

21 October, 2021





Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #225H
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-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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

Site	(Poseidon) Sec-9_T-24-s_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 #225H					
Well Position	+N/-S	-55.0 usft	Northing:	446,690.00 usft	Latitude:	32° 13' 32.864 N
	+E/-W	-80.0 usft	Easting:	773,585.00 usft	Longitude:	103° 34' 56.215 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,610.0 usft

Wellbore	OWB				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/01/21	6.56	60.01	47,555.93610756

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.58	

Plan Survey Tool Program	Date	10/21/21			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	23,337.4 Plan #1 (OWB)	MWD		
			OWSG MWD - Standard		



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #225H
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-s_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

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	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,950.4	8.50	139.45	1,947.3	-47.9	41.0	1.00	1.00	0.00	139.45	
3,563.5	8.50	139.45	3,542.7	-229.1	196.0	0.00	0.00	0.00	0.00	
4,414.0	0.00	0.00	4,390.0	-277.0	237.0	1.00	-1.00	0.00	180.00	
12,533.0	0.00	0.00	12,509.0	-277.0	237.0	0.00	0.00	0.00	0.00	
13,433.0	90.00	359.58	13,082.0	295.9	232.8	10.00	10.00	-0.05	359.58	
16,638.7	90.00	359.58	13,082.0	3,501.6	209.2	0.00	0.00	0.00	0.00	3500°VS (Poseidon)
16,653.8	90.30	359.58	13,082.0	3,516.7	209.1	2.00	2.00	0.00	0.00	
21,638.8	90.30	359.58	13,055.8	8,501.5	172.5	0.00	0.00	0.00	0.00	8500°VS (Poseidon)
21,653.9	90.00	359.58	13,055.8	8,516.6	172.4	2.00	-2.00	0.00	-180.00	
23,337.4	90.00	359.58	13,055.8	10,200.0	160.0	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 #225H
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-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	1.00	139.45	1,200.0	-0.7	0.6	-0.7	1.00	1.00	0.00
1,300.0	2.00	139.45	1,300.0	-2.7	2.3	-2.7	1.00	1.00	0.00
1,400.0	3.00	139.45	1,399.9	-6.0	5.1	-6.0	1.00	1.00	0.00
1,500.0	4.00	139.45	1,499.7	-10.6	9.1	-10.7	1.00	1.00	0.00
1,600.0	5.00	139.45	1,599.4	-16.6	14.2	-16.7	1.00	1.00	0.00
1,700.0	6.00	139.45	1,698.9	-23.8	20.4	-24.0	1.00	1.00	0.00
1,800.0	7.00	139.45	1,798.3	-32.5	27.8	-32.7	1.00	1.00	0.00
1,900.0	8.00	139.45	1,897.4	-42.4	36.3	-42.6	1.00	1.00	0.00
1,950.4	8.50	139.45	1,947.3	-47.9	41.0	-48.2	1.00	1.00	0.00
2,000.0	8.50	139.45	1,996.3	-53.4	45.7	-53.8	0.00	0.00	0.00
2,100.0	8.50	139.45	2,095.2	-64.7	55.3	-65.1	0.00	0.00	0.00
2,200.0	8.50	139.45	2,194.1	-75.9	65.0	-76.4	0.00	0.00	0.00
2,300.0	8.50	139.45	2,293.0	-87.1	74.6	-87.7	0.00	0.00	0.00
2,400.0	8.50	139.45	2,391.9	-98.4	84.2	-99.0	0.00	0.00	0.00
2,500.0	8.50	139.45	2,490.8	-109.6	93.8	-110.3	0.00	0.00	0.00
2,600.0	8.50	139.45	2,589.7	-120.9	103.4	-121.6	0.00	0.00	0.00
2,700.0	8.50	139.45	2,688.6	-132.1	113.0	-132.9	0.00	0.00	0.00
2,800.0	8.50	139.45	2,787.5	-143.3	122.6	-144.2	0.00	0.00	0.00
2,900.0	8.50	139.45	2,886.4	-154.6	132.2	-155.5	0.00	0.00	0.00
3,000.0	8.50	139.45	2,985.3	-165.8	141.9	-166.8	0.00	0.00	0.00
3,100.0	8.50	139.45	3,084.2	-177.0	151.5	-178.1	0.00	0.00	0.00
3,200.0	8.50	139.45	3,183.1	-188.3	161.1	-189.5	0.00	0.00	0.00
3,300.0	8.50	139.45	3,282.0	-199.5	170.7	-200.8	0.00	0.00	0.00
3,400.0	8.50	139.45	3,380.9	-210.8	180.3	-212.1	0.00	0.00	0.00
3,500.0	8.50	139.45	3,479.8	-222.0	189.9	-223.4	0.00	0.00	0.00
3,563.5	8.50	139.45	3,542.7	-229.1	196.0	-230.6	0.00	0.00	0.00
3,600.0	8.14	139.45	3,578.8	-233.1	199.5	-234.6	1.00	-1.00	0.00
3,700.0	7.14	139.45	3,677.9	-243.2	208.1	-244.8	1.00	-1.00	0.00
3,800.0	6.14	139.45	3,777.2	-252.0	215.6	-253.6	1.00	-1.00	0.00
3,900.0	5.14	139.45	3,876.7	-259.5	222.0	-261.1	1.00	-1.00	0.00
4,000.0	4.14	139.45	3,976.4	-265.6	227.3	-267.3	1.00	-1.00	0.00
4,100.0	3.14	139.45	4,076.2	-270.5	231.4	-272.2	1.00	-1.00	0.00
4,200.0	2.14	139.45	4,176.1	-274.0	234.4	-275.7	1.00	-1.00	0.00
4,300.0	1.14	139.45	4,276.0	-276.1	236.3	-277.9	1.00	-1.00	0.00
4,400.0	0.14	139.45	4,376.0	-277.0	237.0	-278.7	1.00	-1.00	0.00
4,414.0	0.00	0.00	4,390.0	-277.0	237.0	-278.7	1.00	-1.00	0.00
4,500.0	0.00	0.00	4,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #225H
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-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.00	0.00	5,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #225H
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-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,576.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,676.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,776.0	-277.0	237.0	-278.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,876.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,976.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,100.0	0.00	0.00	12,076.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,200.0	0.00	0.00	12,176.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,300.0	0.00	0.00	12,276.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,400.0	0.00	0.00	12,376.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,500.0	0.00	0.00	12,476.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,533.0	0.00	0.00	12,509.0	-277.0	237.0	-278.7	0.00	0.00	0.00
12,550.0	1.70	359.58	12,526.0	-276.7	237.0	-278.5	10.00	10.00	0.00
12,600.0	6.70	359.58	12,575.9	-273.1	237.0	-274.8	10.00	10.00	0.00
12,650.0	11.70	359.58	12,625.2	-265.1	236.9	-266.8	10.00	10.00	0.00
12,700.0	16.70	359.58	12,673.7	-252.8	236.8	-254.6	10.00	10.00	0.00
12,750.0	21.70	359.58	12,720.9	-236.4	236.7	-238.1	10.00	10.00	0.00
12,800.0	26.70	359.58	12,766.5	-215.9	236.6	-217.6	10.00	10.00	0.00
12,850.0	31.70	359.58	12,810.1	-191.5	236.4	-193.2	10.00	10.00	0.00
12,900.0	36.70	359.58	12,851.4	-163.4	236.2	-165.1	10.00	10.00	0.00
12,950.0	41.70	359.58	12,890.2	-131.8	235.9	-133.5	10.00	10.00	0.00
13,000.0	46.70	359.58	12,926.0	-97.0	235.7	-98.7	10.00	10.00	0.00
13,050.0	51.70	359.58	12,958.7	-59.1	235.4	-60.9	10.00	10.00	0.00
13,100.0	56.70	359.58	12,987.9	-18.6	235.1	-20.3	10.00	10.00	0.00
13,150.0	61.70	359.58	13,013.5	24.3	234.8	22.6	10.00	10.00	0.00
13,200.0	66.70	359.58	13,035.2	69.3	234.5	67.6	10.00	10.00	0.00
13,250.0	71.70	359.58	13,053.0	116.1	234.1	114.3	10.00	10.00	0.00
13,300.0	76.70	359.58	13,066.6	164.2	233.8	162.4	10.00	10.00	0.00
13,350.0	81.70	359.58	13,076.0	213.3	233.4	211.5	10.00	10.00	0.00
13,400.0	86.70	359.58	13,081.0	263.0	233.0	261.3	10.00	10.00	0.00
13,433.0	90.00	359.58	13,082.0	295.9	232.8	294.2	10.00	10.00	0.00
13,500.0	90.00	359.58	13,082.0	363.0	232.3	361.3	0.00	0.00	0.00
13,600.0	90.00	359.58	13,082.0	463.0	231.6	461.3	0.00	0.00	0.00
13,700.0	90.00	359.58	13,082.0	563.0	230.8	561.3	0.00	0.00	0.00
13,800.0	90.00	359.58	13,082.0	663.0	230.1	661.3	0.00	0.00	0.00
13,900.0	90.00	359.58	13,082.0	763.0	229.4	761.3	0.00	0.00	0.00
14,000.0	90.00	359.58	13,082.0	863.0	228.6	861.3	0.00	0.00	0.00
14,100.0	90.00	359.58	13,082.0	962.9	227.9	961.3	0.00	0.00	0.00
14,200.0	90.00	359.58	13,082.0	1,062.9	227.2	1,061.3	0.00	0.00	0.00
14,300.0	90.00	359.58	13,082.0	1,162.9	226.4	1,161.3	0.00	0.00	0.00
14,400.0	90.00	359.58	13,082.0	1,262.9	225.7	1,261.3	0.00	0.00	0.00
14,500.0	90.00	359.58	13,082.0	1,362.9	224.9	1,361.3	0.00	0.00	0.00
14,600.0	90.00	359.58	13,082.0	1,462.9	224.2	1,461.3	0.00	0.00	0.00
14,700.0	90.00	359.58	13,082.0	1,562.9	223.5	1,561.3	0.00	0.00	0.00



Intrepid Planning Report



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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-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.0	90.00	359.58	13,082.0	1,662.9	222.7	1,661.3	0.00	0.00	0.00
14,900.0	90.00	359.58	13,082.0	1,762.9	222.0	1,761.3	0.00	0.00	0.00
15,000.0	90.00	359.58	13,082.0	1,862.9	221.3	1,861.3	0.00	0.00	0.00
15,100.0	90.00	359.58	13,082.0	1,962.9	220.5	1,961.3	0.00	0.00	0.00
15,200.0	90.00	359.58	13,082.0	2,062.9	219.8	2,061.3	0.00	0.00	0.00
15,300.0	90.00	359.58	13,082.0	2,162.9	219.1	2,161.3	0.00	0.00	0.00
15,400.0	90.00	359.58	13,082.0	2,262.9	218.3	2,261.3	0.00	0.00	0.00
15,500.0	90.00	359.58	13,082.0	2,362.9	217.6	2,361.3	0.00	0.00	0.00
15,600.0	90.00	359.58	13,082.0	2,462.9	216.9	2,461.3	0.00	0.00	0.00
15,700.0	90.00	359.58	13,082.0	2,562.9	216.1	2,561.3	0.00	0.00	0.00
15,800.0	90.00	359.58	13,082.0	2,662.9	215.4	2,661.3	0.00	0.00	0.00
15,900.0	90.00	359.58	13,082.0	2,762.9	214.7	2,761.3	0.00	0.00	0.00
16,000.0	90.00	359.58	13,082.0	2,862.9	213.9	2,861.3	0.00	0.00	0.00
16,100.0	90.00	359.58	13,082.0	2,962.9	213.2	2,961.3	0.00	0.00	0.00
16,200.0	90.00	359.58	13,082.0	3,062.9	212.5	3,061.3	0.00	0.00	0.00
16,300.0	90.00	359.58	13,082.0	3,162.9	211.7	3,161.3	0.00	0.00	0.00
16,400.0	90.00	359.58	13,082.0	3,262.9	211.0	3,261.3	0.00	0.00	0.00
16,500.0	90.00	359.58	13,082.0	3,362.9	210.2	3,361.3	0.00	0.00	0.00
16,600.0	90.00	359.58	13,082.0	3,462.9	209.5	3,461.3	0.00	0.00	0.00
16,638.7	90.00	359.58	13,082.0	3,501.6	209.2	3,500.0	0.00	0.00	0.00
16,653.8	90.30	359.58	13,082.0	3,516.7	209.1	3,515.0	2.00	2.00	0.00
16,700.0	90.30	359.58	13,081.7	3,562.9	208.8	3,561.3	0.00	0.00	0.00
16,800.0	90.30	359.58	13,081.2	3,662.9	208.0	3,661.3	0.00	0.00	0.00
16,900.0	90.30	359.58	13,080.7	3,762.9	207.3	3,761.2	0.00	0.00	0.00
17,000.0	90.30	359.58	13,080.1	3,862.9	206.6	3,861.2	0.00	0.00	0.00
17,100.0	90.30	359.58	13,079.6	3,962.9	205.8	3,961.2	0.00	0.00	0.00
17,200.0	90.30	359.58	13,079.1	4,062.9	205.1	4,061.2	0.00	0.00	0.00
17,300.0	90.30	359.58	13,078.6	4,162.9	204.4	4,161.2	0.00	0.00	0.00
17,400.0	90.30	359.58	13,078.0	4,262.8	203.6	4,261.2	0.00	0.00	0.00
17,500.0	90.30	359.58	13,077.5	4,362.8	202.9	4,361.2	0.00	0.00	0.00
17,600.0	90.30	359.58	13,077.0	4,462.8	202.2	4,461.2	0.00	0.00	0.00
17,700.0	90.30	359.58	13,076.5	4,562.8	201.4	4,561.2	0.00	0.00	0.00
17,800.0	90.30	359.58	13,075.9	4,662.8	200.7	4,661.2	0.00	0.00	0.00
17,900.0	90.30	359.58	13,075.4	4,762.8	200.0	4,761.2	0.00	0.00	0.00
18,000.0	90.30	359.58	13,074.9	4,862.8	199.2	4,861.2	0.00	0.00	0.00
18,100.0	90.30	359.58	13,074.4	4,962.8	198.5	4,961.2	0.00	0.00	0.00
18,200.0	90.30	359.58	13,073.9	5,062.8	197.8	5,061.2	0.00	0.00	0.00
18,300.0	90.30	359.58	13,073.3	5,162.8	197.0	5,161.2	0.00	0.00	0.00
18,400.0	90.30	359.58	13,072.8	5,262.8	196.3	5,261.2	0.00	0.00	0.00
18,500.0	90.30	359.58	13,072.3	5,362.8	195.6	5,361.2	0.00	0.00	0.00
18,600.0	90.30	359.58	13,071.8	5,462.8	194.8	5,461.2	0.00	0.00	0.00
18,700.0	90.30	359.58	13,071.2	5,562.8	194.1	5,561.2	0.00	0.00	0.00
18,800.0	90.30	359.58	13,070.7	5,662.8	193.3	5,661.2	0.00	0.00	0.00
18,900.0	90.30	359.58	13,070.2	5,762.8	192.6	5,761.2	0.00	0.00	0.00
19,000.0	90.30	359.58	13,069.7	5,862.8	191.9	5,861.2	0.00	0.00	0.00
19,100.0	90.30	359.58	13,069.1	5,962.8	191.1	5,961.2	0.00	0.00	0.00
19,200.0	90.30	359.58	13,068.6	6,062.8	190.4	6,061.2	0.00	0.00	0.00
19,300.0	90.30	359.58	13,068.1	6,162.8	189.7	6,161.2	0.00	0.00	0.00
19,400.0	90.30	359.58	13,067.6	6,262.8	188.9	6,261.2	0.00	0.00	0.00
19,500.0	90.30	359.58	13,067.0	6,362.8	188.2	6,361.2	0.00	0.00	0.00
19,600.0	90.30	359.58	13,066.5	6,462.8	187.5	6,461.2	0.00	0.00	0.00
19,700.0	90.30	359.58	13,066.0	6,562.8	186.7	6,561.2	0.00	0.00	0.00
19,800.0	90.30	359.58	13,065.5	6,662.8	186.0	6,661.2	0.00	0.00	0.00
19,900.0	90.30	359.58	13,064.9	6,762.7	185.3	6,761.2	0.00	0.00	0.00



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,000.0	90.30	359.58	13,064.4	6,862.7	184.5	6,861.2	0.00	0.00	0.00
20,100.0	90.30	359.58	13,063.9	6,962.7	183.8	6,961.2	0.00	0.00	0.00
20,200.0	90.30	359.58	13,063.4	7,062.7	183.1	7,061.2	0.00	0.00	0.00
20,300.0	90.30	359.58	13,062.8	7,162.7	182.3	7,161.2	0.00	0.00	0.00
20,400.0	90.30	359.58	13,062.3	7,262.7	181.6	7,261.2	0.00	0.00	0.00
20,500.0	90.30	359.58	13,061.8	7,362.7	180.9	7,361.2	0.00	0.00	0.00
20,600.0	90.30	359.58	13,061.3	7,462.7	180.1	7,461.2	0.00	0.00	0.00
20,700.0	90.30	359.58	13,060.7	7,562.7	179.4	7,561.2	0.00	0.00	0.00
20,800.0	90.30	359.58	13,060.2	7,662.7	178.6	7,661.2	0.00	0.00	0.00
20,900.0	90.30	359.58	13,059.7	7,762.7	177.9	7,761.2	0.00	0.00	0.00
21,000.0	90.30	359.58	13,059.2	7,862.7	177.2	7,861.2	0.00	0.00	0.00
21,100.0	90.30	359.58	13,058.6	7,962.7	176.4	7,961.2	0.00	0.00	0.00
21,200.0	90.30	359.58	13,058.1	8,062.7	175.7	8,061.2	0.00	0.00	0.00
21,300.0	90.30	359.58	13,057.6	8,162.7	175.0	8,161.2	0.00	0.00	0.00
21,400.0	90.30	359.58	13,057.1	8,262.7	174.2	8,261.2	0.00	0.00	0.00
21,500.0	90.30	359.58	13,056.5	8,362.7	173.5	8,361.2	0.00	0.00	0.00
21,600.0	90.30	359.58	13,056.0	8,462.7	172.8	8,461.2	0.00	0.00	0.00
21,638.8	90.30	359.58	13,055.8	8,501.5	172.5	8,500.0	0.00	0.00	0.00
21,653.9	90.00	359.58	13,055.8	8,516.6	172.4	8,515.1	2.00	-2.00	0.00
21,700.0	90.00	359.58	13,055.8	8,562.7	172.0	8,561.2	0.00	0.00	0.00
21,800.0	90.00	359.58	13,055.8	8,662.7	171.3	8,661.2	0.00	0.00	0.00
21,900.0	90.00	359.58	13,055.8	8,762.7	170.6	8,761.2	0.00	0.00	0.00
22,000.0	90.00	359.58	13,055.8	8,862.7	169.8	8,861.2	0.00	0.00	0.00
22,100.0	90.00	359.58	13,055.8	8,962.7	169.1	8,961.2	0.00	0.00	0.00
22,200.0	90.00	359.58	13,055.8	9,062.7	168.4	9,061.2	0.00	0.00	0.00
22,300.0	90.00	359.58	13,055.8	9,162.7	167.6	9,161.2	0.00	0.00	0.00
22,400.0	90.00	359.58	13,055.8	9,262.7	166.9	9,261.2	0.00	0.00	0.00
22,500.0	90.00	359.58	13,055.8	9,362.7	166.2	9,361.2	0.00	0.00	0.00
22,600.0	90.00	359.58	13,055.8	9,462.7	165.4	9,461.2	0.00	0.00	0.00
22,700.0	90.00	359.58	13,055.8	9,562.6	164.7	9,561.2	0.00	0.00	0.00
22,800.0	90.00	359.58	13,055.8	9,662.6	163.9	9,661.2	0.00	0.00	0.00
22,900.0	90.00	359.58	13,055.8	9,762.6	163.2	9,761.2	0.00	0.00	0.00
23,000.0	90.00	359.58	13,055.8	9,862.6	162.5	9,861.2	0.00	0.00	0.00
23,100.0	90.00	359.58	13,055.8	9,962.6	161.7	9,961.2	0.00	0.00	0.00
23,200.0	90.00	359.58	13,055.8	10,062.6	161.0	10,061.2	0.00	0.00	0.00
23,300.0	90.00	359.58	13,055.8	10,162.6	160.3	10,161.2	0.00	0.00	0.00
23,337.4	90.00	359.58	13,055.8	10,200.0	160.0	10,198.6	0.00	0.00	0.00



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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
FTP (Poseidon State Com #225H) - plan misses target center by 56.0usft at 11694.0usft MD (11670.0 TVD, -277.0 N, 237.0 E) - Point	0.00	0.00	11,670.0	-221.0	237.0	446,469.00	773,822.00	32° 13' 30.661 N	103° 34' 53.474 W
PBHL (Poseidon State Com #225H) - plan hits target center - Rectangle (sides W100.0 H1,698.6 D30.0)	0.00	359.58	13,055.8	10,200.0	160.0	456,890.00	773,745.00	32° 15' 13.784 N	103° 34' 53.521 W
LTP (Poseidon State Com #225H) - plan misses target center by 0.5usft at 23267.4usft MD (13055.8 TVD, 10130.0 N, 160.5 E) - Point	0.00	0.00	13,055.8	10,130.0	161.0	456,820.00	773,746.00	32° 15' 13.092 N	103° 34' 53.515 W
8500'VS (Poseidon State Com #225H) - plan hits target center - Rectangle (sides W100.0 H5,000.0 D30.0)	-0.30	359.58	13,055.8	8,501.5	172.5	455,191.50	773,757.48	32° 14' 56.976 N	103° 34' 53.514 W
3500'VS (Poseidon State Com #225H) - plan hits target center - Rectangle (sides W100.0 H3,721.0 D30.0)	0.00	359.58	13,082.0	3,501.6	209.2	450,191.60	773,794.23	32° 14' 7.499 N	103° 34' 53.494 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,253.0	1,253.0	Rustler Anhydrite			
1,776.6	1,775.0	Top Salt			
4,941.0	4,917.0	Base Salt			
5,189.0	5,165.0	Delaware Mountain Gp			
5,196.0	5,172.0	Lamar			
5,216.0	5,192.0	Bell Canyon			
5,236.0	5,212.0	Ramsey Sand			
6,171.0	6,147.0	Cherry Canyon			
7,696.0	7,672.0	Brushy Canyon			
9,119.0	9,095.0	Bone Spring Lime			
9,249.0	9,225.0	Upper Avalon			
9,499.0	9,475.0	Middle Avalon			
9,934.0	9,910.0	Lower Avalon			
10,164.0	10,140.0	1st Bone Spring Sand			
10,453.0	10,429.0	2nd Bone Spring Carb			
10,824.0	10,800.0	2nd Bone Spring Sand			
11,390.0	11,366.0	3rd Bone Spring Carb			
11,986.0	11,962.0	3rd Bone Spring Sand			
12,278.0	12,254.0	3rd BS W Sand			
12,304.0	12,280.0	Wolfcamp A X Sand			
12,463.0	12,439.0	Wolfcamp A Y Sand			
12,559.0	12,535.0	Wolfcamp A Lower			
12,963.3	12,900.0	Wolfcamp B			
13,343.6	13,075.0	Wolfcamp B1			



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Site:	(Poseidon) Sec-9_T-24-S_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #225H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,100.0	1,100.0	0.0	0.0	NUDGE - Build 1.00
1,950.4	1,947.3	-47.9	41.0	HOLD - 1613.1 at 1950.4 MD
3,563.5	3,542.7	-229.1	196.0	DROP - -1.00
4,414.0	4,390.0	-277.0	237.0	HOLD - 8119.0 at 4414.0 MD
12,533.0	12,509.0	-277.0	237.0	KOP - DLS 10.00 TFO 359.58
13,433.0	13,082.0	295.9	232.8	EOC - 3205.8 hold at 13433.0 MD
16,638.7	13,082.0	3,501.6	209.2	Start DLS 2.00 TFO 0.00
16,653.8	13,082.0	3,516.7	209.1	Start 4985.0 hold at 16653.8 MD
21,638.8	13,055.8	8,501.5	172.5	Start DLS 2.00 TFO -180.00
21,653.9	13,055.8	8,516.6	172.4	Start 1683.5 hold at 21653.9 MD
23,337.4	13,055.8	10,200.0	160.0	TD at 23337.4

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 57363

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 57363
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	POOL NAME AND POOL CODE WAS CORRECTED ON C-102 TO REFLECT THE CORRECT POOL NAME AND CODE	10/22/2021