

Submit a 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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-48674
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 222H
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.) 3600 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>N</u> : <u>733'</u> feet from the <u>South</u> line and <u>2068'</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.) 3600 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, SHL, 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 Surface hole location, the casing, and the unit size for the Poseidon State Com 222H.

Tap Rock would like change the surface hole location of the Poseidon State Com 222H.

Previously approved Surface Hole Location: 723 FSL, 2068 FWL, Section 9, Township 24S, Range 33E

Proposed Surface Hole Location: 733 FSL, 2068 FWL, Section 9, 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
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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 30-025-48674	² Pool Code 98135	³ Pool Name WC-025 G-09 S243310P; UPPER WOLFCAMP
⁴ Property Code 325667	⁵ Property Name POSEIDON STATE COM	
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 222H
		⁹ Elevation 3600'

¹⁰Surface Location

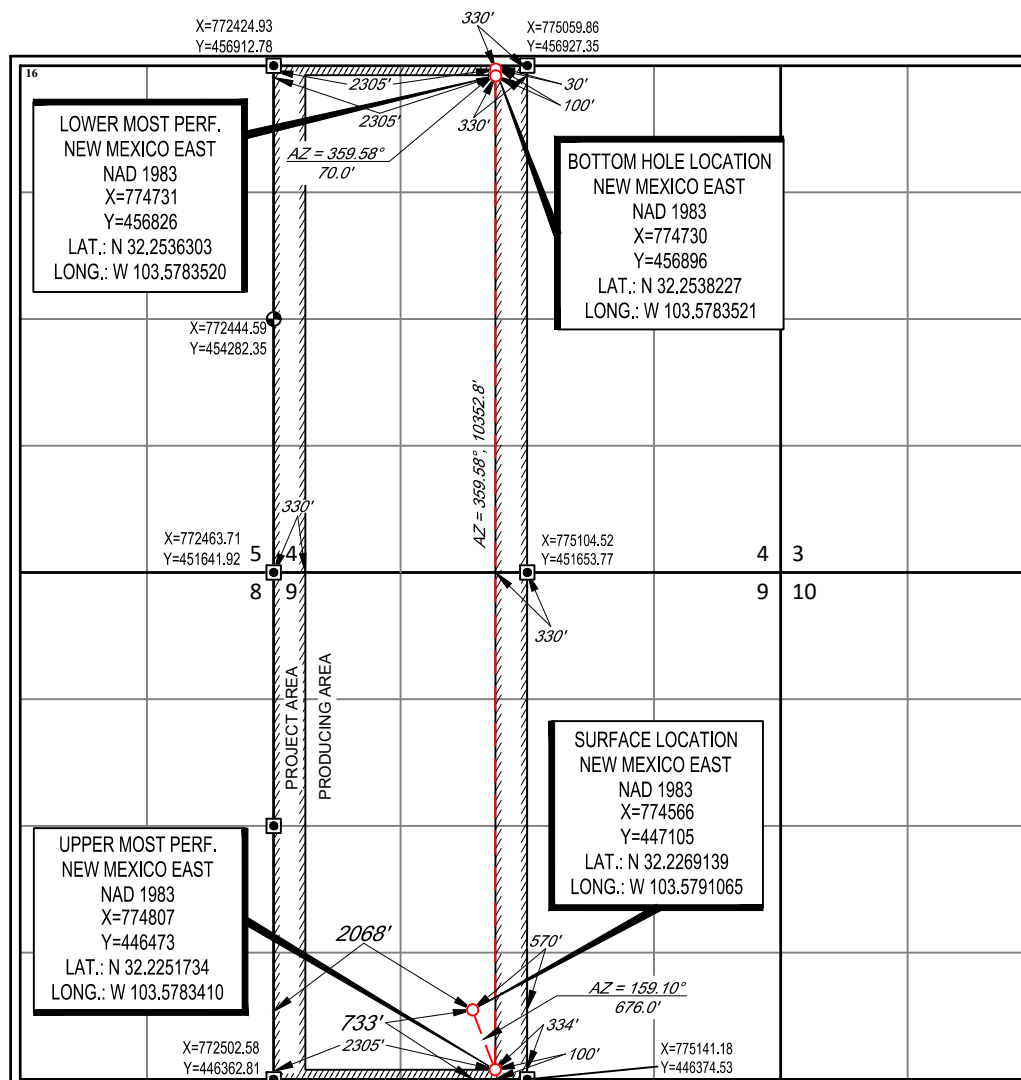
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	24-S	33-E	—	733'	SOUTH	2068'	WEST	LEA

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	2305'	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.

Randy

10/21/2021

Signature _____

Date _____

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.

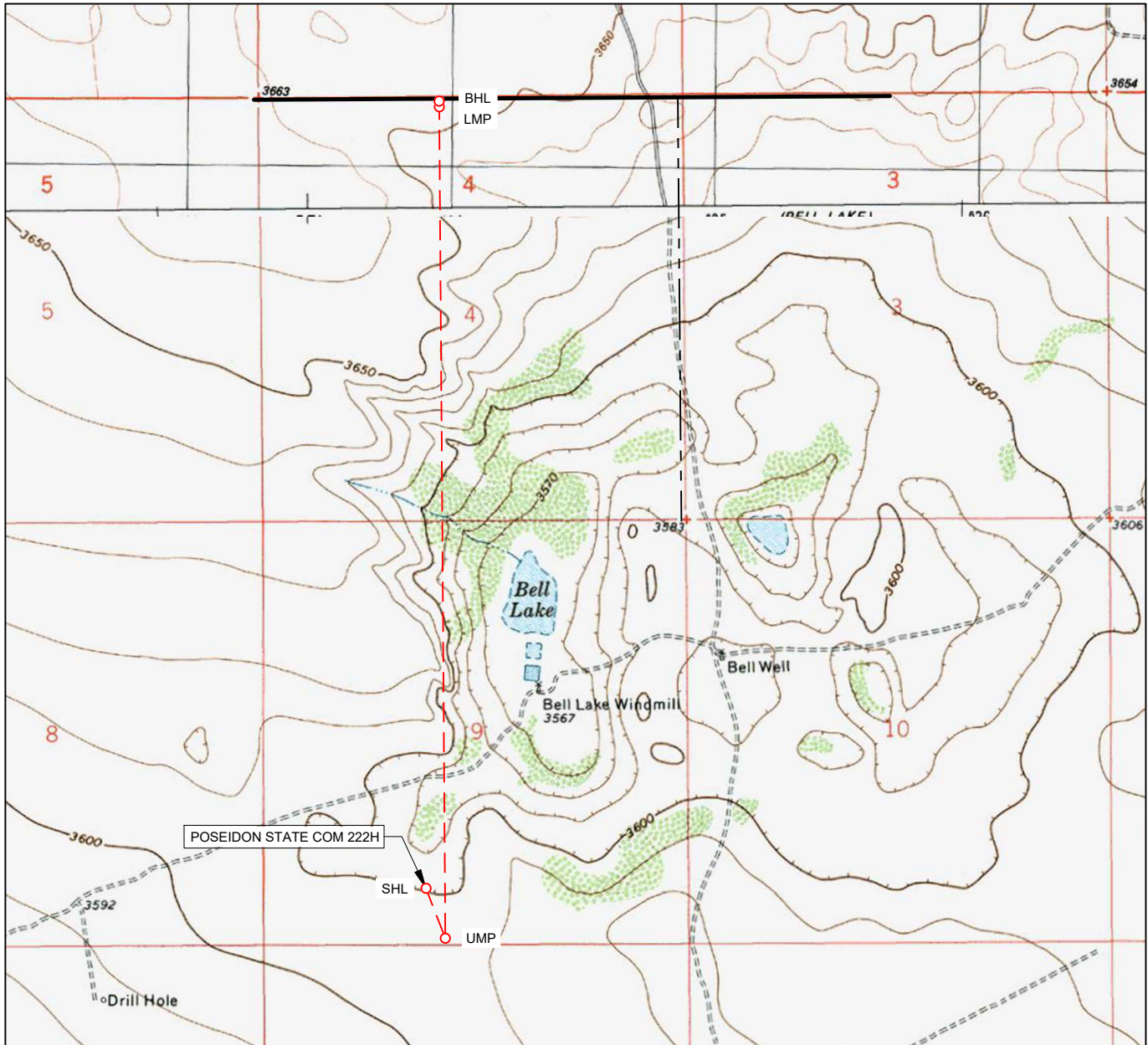
10/21/2021

Date of Survey 12/1/2014

Signature and Seal of Professional Surveyor

Certificate Number

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 222H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3600'
 DESCRIPTION 733' FSL & 2068' FWL

LATITUDE N 32.2268864 LONGITUDE W 103.5791067

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

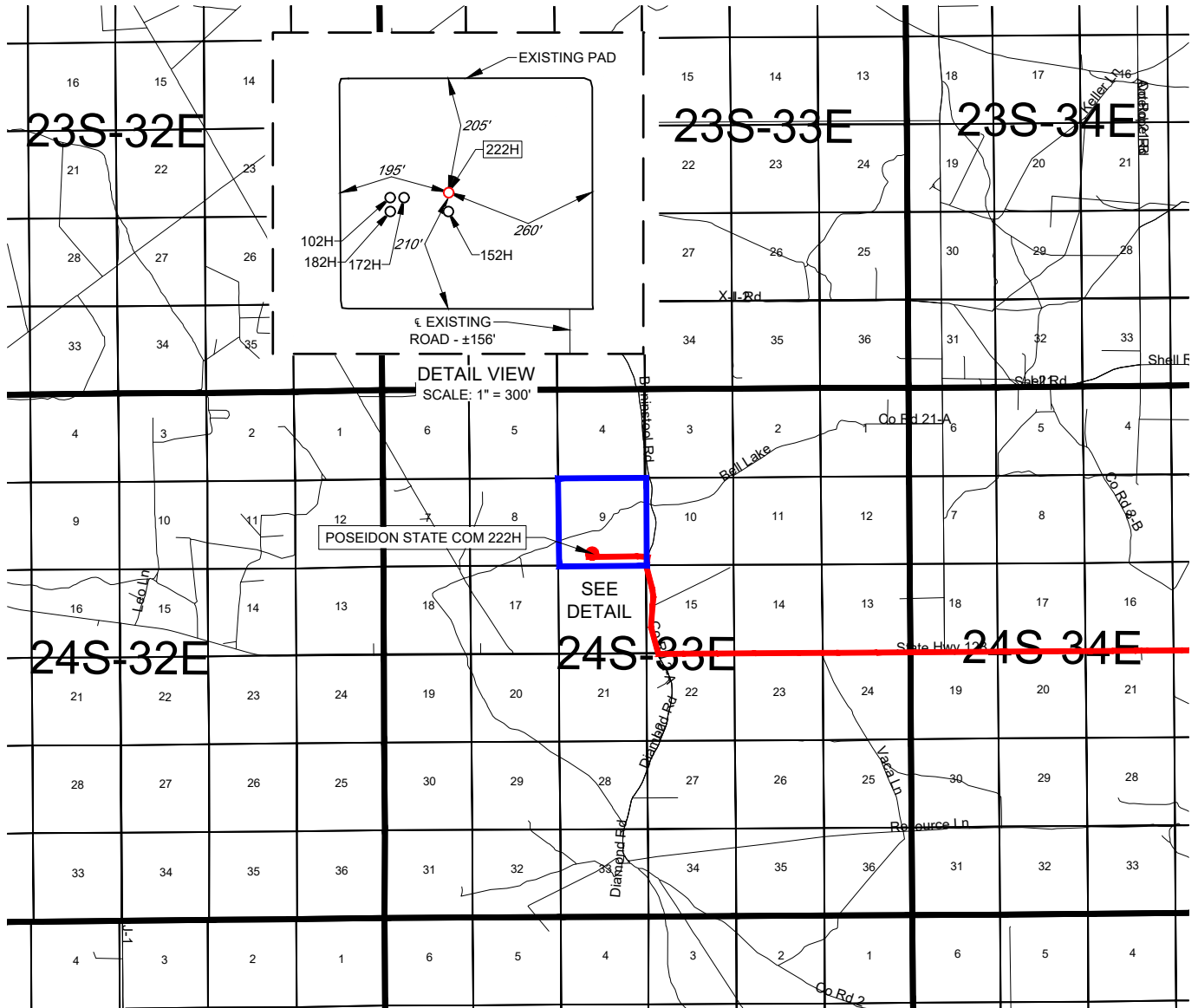
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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 MAPLEASE NAME & WELL NO.: POSEIDON STATE COM 222H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 733' FSL & 2068' 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. ± 0.6 MILE, THENCE NORTH
 (RIGHT) ON PROPOSED RD. ± 156 FEET, TO A POINT ± 307 FEET
 SOUTHEAST OF THE LOCATION.



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

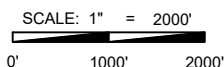
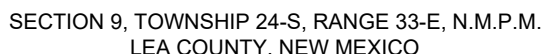


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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



EXISTING PAD

205'

222H

195'

102H

182H

172H

210'

152H

260'

± EXISTING ROAD - ±156'

DETAIL VIEW
SCALE: 1" = 300'



 **TOPOGRAPHIC**
LOYALTY INNOVATION LEGACY

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

LEGEND

SECTION LINE
PROPOSED ROAD



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

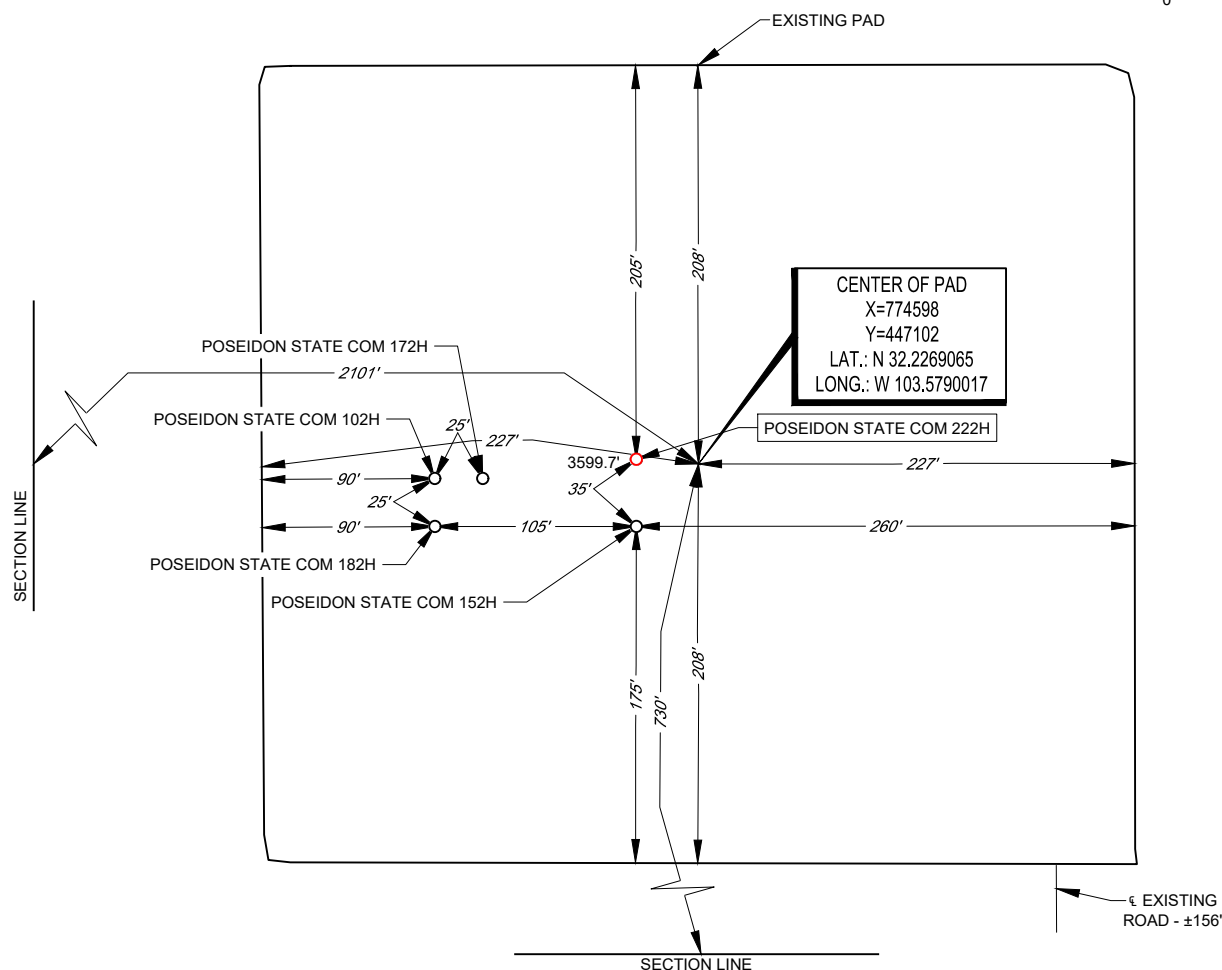
DETAIL VIEW
SCALE: 1" = 100'



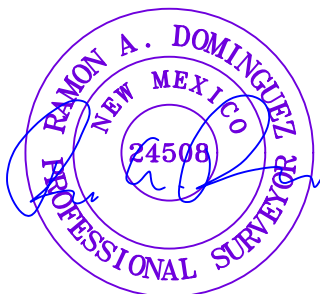
SCALE: 1" = 100'



0' 50' 100'



LEASE NAME & WELL NO.: POSEIDON STATE COM 222H
 222H LATITUDE N 32.2268864 222H LONGITUDE W 103.5791067
 CENTER OF PAD IS 730' FSL & 2101' 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 222H

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	1885	0	Diesel Brine
	8.75	7.625	29.7	P-110	12510			
Production	6.75	5.5	20	P-110	23410	843	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 #222H**

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 #222H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3626.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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
From:	Map	Easting:	773,665.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 33.403 N
		Longitude:	103° 34' 55.279 W
		Grid Convergence:	0.40 °

Well	Poseidon State Com #222H		
Well Position	+N/-S	360.0 usft	Northing:
	+E/-W	901.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/01/21	6.55	60.01	47,556.99380835

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	23,413.5 Plan #2 (OWB)	MWD	
			OWSG MWD - Standard	



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
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Well:	Poseidon State Com #222H	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	
1,700.0	2.00	90.00	1,700.0	0.0	3.5	1.00	1.00	0.00	90.00	
2,500.5	2.00	90.00	2,500.0	0.0	31.4	0.00	0.00	0.00	0.00	
3,339.1	9.00	155.98	3,334.6	-60.0	72.8	1.00	0.83	7.87	78.46	
7,241.2	9.00	155.98	7,188.7	-617.6	321.3	0.00	0.00	0.00	0.00	
8,141.2	0.00	0.00	8,085.0	-682.0	350.0	1.00	-1.00	0.00	180.00	
8,241.2	1.00	270.00	8,185.0	-682.0	349.1	1.00	1.00	0.00	270.00	
11,241.2	1.00	270.00	11,184.5	-682.0	296.8	0.00	0.00	0.00	0.00	
11,341.2	0.00	0.00	11,284.5	-682.0	295.9	1.00	-1.00	0.00	180.00	
12,610.7	0.00	0.00	12,554.0	-682.0	295.9	0.00	0.00	0.00	0.00	
13,510.7	90.00	355.00	13,127.0	-111.2	246.0	10.00	10.00	0.00	355.00	
13,739.6	90.00	359.58	13,127.0	117.4	235.1	2.00	0.00	2.00	90.01	
17,123.9	90.00	359.58	13,127.0	3,501.6	210.3	0.00	0.00	0.00	0.00	3500°VS (Poseidon)
17,138.9	90.30	359.58	13,127.0	3,516.7	210.1	2.00	2.00	0.00	-0.01	
22,124.0	90.30	359.58	13,100.8	8,501.5	173.5	0.00	0.00	0.00	0.00	8500°VS (Poseidon)
22,139.1	90.00	359.58	13,100.8	8,516.6	173.4	2.00	-2.00	0.00	180.00	
23,413.5	90.00	359.58	13,100.8	9,791.0	164.0	0.00	0.00	0.00	0.00	PBHL (Poseidon St



Intrepid Planning Report



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Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3626.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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	90.00	1,600.0	0.0	0.9	0.0	1.00	1.00	0.00
1,700.0	2.00	90.00	1,700.0	0.0	3.5	0.0	1.00	1.00	0.00
1,800.0	2.00	90.00	1,799.9	0.0	7.0	-0.1	0.00	0.00	0.00
1,900.0	2.00	90.00	1,899.8	0.0	10.5	-0.1	0.00	0.00	0.00
2,000.0	2.00	90.00	1,999.8	0.0	14.0	-0.1	0.00	0.00	0.00
2,100.0	2.00	90.00	2,099.7	0.0	17.5	-0.1	0.00	0.00	0.00
2,200.0	2.00	90.00	2,199.7	0.0	20.9	-0.2	0.00	0.00	0.00
2,300.0	2.00	90.00	2,299.6	0.0	24.4	-0.2	0.00	0.00	0.00
2,400.0	2.00	90.00	2,399.5	0.0	27.9	-0.2	0.00	0.00	0.00
2,500.5	2.00	90.00	2,500.0	0.0	31.4	-0.2	0.00	0.00	0.00
2,600.0	2.41	113.91	2,599.4	-0.8	35.1	-1.1	1.00	0.41	24.04
2,700.0	3.09	129.19	2,699.3	-3.4	39.1	-3.7	1.00	0.69	15.28
2,800.0	3.92	138.50	2,799.1	-7.7	43.4	-8.0	1.00	0.83	9.31
2,900.0	4.81	144.47	2,898.8	-13.6	48.1	-14.0	1.00	0.89	5.98
3,000.0	5.74	148.55	2,998.4	-21.3	53.2	-21.7	1.00	0.93	4.08
3,100.0	6.69	151.49	3,097.8	-30.7	58.6	-31.1	1.00	0.95	2.94
3,200.0	7.65	153.70	3,197.0	-41.8	64.3	-42.3	1.00	0.96	2.21
3,300.0	8.62	155.41	3,296.0	-54.6	70.4	-55.1	1.00	0.97	1.71
3,339.1	9.00	155.98	3,334.6	-60.0	72.8	-60.5	1.00	0.97	1.46
3,400.0	9.00	155.98	3,394.8	-68.7	76.7	-69.3	0.00	0.00	0.00
3,500.0	9.00	155.98	3,493.6	-83.0	83.1	-83.6	0.00	0.00	0.00
3,600.0	9.00	155.98	3,592.3	-97.3	89.4	-98.0	0.00	0.00	0.00
3,700.0	9.00	155.98	3,691.1	-111.6	95.8	-112.3	0.00	0.00	0.00
3,800.0	9.00	155.98	3,789.9	-125.9	102.2	-126.6	0.00	0.00	0.00
3,900.0	9.00	155.98	3,888.6	-140.2	108.5	-141.0	0.00	0.00	0.00
4,000.0	9.00	155.98	3,987.4	-154.5	114.9	-155.3	0.00	0.00	0.00
4,100.0	9.00	155.98	4,086.2	-168.7	121.3	-169.6	0.00	0.00	0.00
4,200.0	9.00	155.98	4,184.9	-183.0	127.6	-184.0	0.00	0.00	0.00
4,300.0	9.00	155.98	4,283.7	-197.3	134.0	-198.3	0.00	0.00	0.00
4,400.0	9.00	155.98	4,382.5	-211.6	140.4	-212.6	0.00	0.00	0.00
4,500.0	9.00	155.98	4,481.3	-225.9	146.7	-227.0	0.00	0.00	0.00
4,600.0	9.00	155.98	4,580.0	-240.2	153.1	-241.3	0.00	0.00	0.00
4,700.0	9.00	155.98	4,678.8	-254.5	159.5	-255.6	0.00	0.00	0.00
4,800.0	9.00	155.98	4,777.6	-268.8	165.9	-270.0	0.00	0.00	0.00
4,900.0	9.00	155.98	4,876.3	-283.0	172.2	-284.3	0.00	0.00	0.00
5,000.0	9.00	155.98	4,975.1	-297.3	178.6	-298.6	0.00	0.00	0.00
5,100.0	9.00	155.98	5,073.9	-311.6	185.0	-313.0	0.00	0.00	0.00
5,200.0	9.00	155.98	5,172.6	-325.9	191.3	-327.3	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #222H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3626.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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	9.00	155.98	5,271.4	-340.2	197.7	-341.6	0.00	0.00	0.00
5,400.0	9.00	155.98	5,370.2	-354.5	204.1	-356.0	0.00	0.00	0.00
5,500.0	9.00	155.98	5,468.9	-368.8	210.4	-370.3	0.00	0.00	0.00
5,600.0	9.00	155.98	5,567.7	-383.1	216.8	-384.6	0.00	0.00	0.00
5,700.0	9.00	155.98	5,666.5	-397.4	223.2	-399.0	0.00	0.00	0.00
5,800.0	9.00	155.98	5,765.2	-411.6	229.5	-413.3	0.00	0.00	0.00
5,900.0	9.00	155.98	5,864.0	-425.9	235.9	-427.6	0.00	0.00	0.00
6,000.0	9.00	155.98	5,962.8	-440.2	242.3	-442.0	0.00	0.00	0.00
6,100.0	9.00	155.98	6,061.6	-454.5	248.6	-456.3	0.00	0.00	0.00
6,200.0	9.00	155.98	6,160.3	-468.8	255.0	-470.7	0.00	0.00	0.00
6,300.0	9.00	155.98	6,259.1	-483.1	261.4	-485.0	0.00	0.00	0.00
6,400.0	9.00	155.98	6,357.9	-497.4	267.7	-499.3	0.00	0.00	0.00
6,500.0	9.00	155.98	6,456.6	-511.7	274.1	-513.7	0.00	0.00	0.00
6,600.0	9.00	155.98	6,555.4	-526.0	280.5	-528.0	0.00	0.00	0.00
6,700.0	9.00	155.98	6,654.2	-540.2	286.8	-542.3	0.00	0.00	0.00
6,800.0	9.00	155.98	6,752.9	-554.5	293.2	-556.7	0.00	0.00	0.00
6,900.0	9.00	155.98	6,851.7	-568.8	299.6	-571.0	0.00	0.00	0.00
7,000.0	9.00	155.98	6,950.5	-583.1	305.9	-585.3	0.00	0.00	0.00
7,100.0	9.00	155.98	7,049.2	-597.4	312.3	-599.7	0.00	0.00	0.00
7,200.0	9.00	155.98	7,148.0	-611.7	318.7	-614.0	0.00	0.00	0.00
7,241.2	9.00	155.98	7,188.7	-617.6	321.3	-619.9	0.00	0.00	0.00
7,300.0	8.41	155.98	7,246.8	-625.7	324.9	-628.1	1.00	-1.00	0.00
7,400.0	7.41	155.98	7,345.9	-638.3	330.5	-640.7	1.00	-1.00	0.00
7,500.0	6.41	155.98	7,445.1	-649.3	335.4	-651.7	1.00	-1.00	0.00
7,600.0	5.41	155.98	7,544.6	-658.7	339.6	-661.1	1.00	-1.00	0.00
7,700.0	4.41	155.98	7,644.2	-666.5	343.1	-669.0	1.00	-1.00	0.00
7,800.0	3.41	155.98	7,744.0	-672.7	345.9	-675.2	1.00	-1.00	0.00
7,900.0	2.41	155.98	7,843.9	-677.4	347.9	-679.9	1.00	-1.00	0.00
8,000.0	1.41	155.98	7,943.8	-680.4	349.3	-683.0	1.00	-1.00	0.00
8,100.0	0.41	155.98	8,043.8	-681.9	349.9	-684.4	1.00	-1.00	0.00
8,141.2	0.00	0.00	8,085.0	-682.0	350.0	-684.5	1.00	-1.00	0.00
8,200.0	0.59	270.00	8,143.8	-682.0	349.7	-684.5	1.00	1.00	0.00
8,241.2	1.00	270.00	8,185.0	-682.0	349.1	-684.5	1.00	1.00	0.00
8,300.0	1.00	270.00	8,243.8	-682.0	348.1	-684.5	0.00	0.00	0.00
8,400.0	1.00	270.00	8,343.8	-682.0	346.4	-684.5	0.00	0.00	0.00
8,500.0	1.00	270.00	8,443.8	-682.0	344.6	-684.5	0.00	0.00	0.00
8,600.0	1.00	270.00	8,543.8	-682.0	342.9	-684.5	0.00	0.00	0.00
8,700.0	1.00	270.00	8,643.7	-682.0	341.1	-684.5	0.00	0.00	0.00
8,800.0	1.00	270.00	8,743.7	-682.0	339.4	-684.5	0.00	0.00	0.00
8,900.0	1.00	270.00	8,843.7	-682.0	337.6	-684.5	0.00	0.00	0.00
9,000.0	1.00	270.00	8,943.7	-682.0	335.9	-684.4	0.00	0.00	0.00
9,100.0	1.00	270.00	9,043.7	-682.0	334.1	-684.4	0.00	0.00	0.00
9,200.0	1.00	270.00	9,143.7	-682.0	332.4	-684.4	0.00	0.00	0.00
9,300.0	1.00	270.00	9,243.6	-682.0	330.6	-684.4	0.00	0.00	0.00
9,400.0	1.00	270.00	9,343.6	-682.0	328.9	-684.4	0.00	0.00	0.00
9,500.0	1.00	270.00	9,443.6	-682.0	327.2	-684.4	0.00	0.00	0.00
9,600.0	1.00	270.00	9,543.6	-682.0	325.4	-684.4	0.00	0.00	0.00
9,700.0	1.00	270.00	9,643.6	-682.0	323.7	-684.4	0.00	0.00	0.00
9,800.0	1.00	270.00	9,743.6	-682.0	321.9	-684.3	0.00	0.00	0.00
9,900.0	1.00	270.00	9,843.6	-682.0	320.2	-684.3	0.00	0.00	0.00
10,000.0	1.00	270.00	9,943.5	-682.0	318.4	-684.3	0.00	0.00	0.00
10,100.0	1.00	270.00	10,043.5	-682.0	316.7	-684.3	0.00	0.00	0.00
10,200.0	1.00	270.00	10,143.5	-682.0	314.9	-684.3	0.00	0.00	0.00
10,300.0	1.00	270.00	10,243.5	-682.0	313.2	-684.3	0.00	0.00	0.00



Intrepid Planning Report



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Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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)
10,400.0	1.00	270.00	10,343.5	-682.0	311.5	-684.3	0.00	0.00	0.00
10,500.0	1.00	270.00	10,443.5	-682.0	309.7	-684.3	0.00	0.00	0.00
10,600.0	1.00	270.00	10,543.4	-682.0	308.0	-684.2	0.00	0.00	0.00
10,700.0	1.00	270.00	10,643.4	-682.0	306.2	-684.2	0.00	0.00	0.00
10,800.0	1.00	270.00	10,743.4	-682.0	304.5	-684.2	0.00	0.00	0.00
10,900.0	1.00	270.00	10,843.4	-682.0	302.7	-684.2	0.00	0.00	0.00
11,000.0	1.00	270.00	10,943.4	-682.0	301.0	-684.2	0.00	0.00	0.00
11,100.0	1.00	270.00	11,043.4	-682.0	299.2	-684.2	0.00	0.00	0.00
11,200.0	1.00	270.00	11,143.4	-682.0	297.5	-684.2	0.00	0.00	0.00
11,241.2	1.00	270.00	11,184.5	-682.0	296.8	-684.2	0.00	0.00	0.00
11,300.0	0.41	270.00	11,243.3	-682.0	296.0	-684.2	1.00	-1.00	0.00
11,341.2	0.00	0.00	11,284.5	-682.0	295.9	-684.2	1.00	-1.00	0.00
11,400.0	0.00	0.00	11,343.3	-682.0	295.9	-684.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,443.3	-682.0	295.9	-684.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,543.3	-682.0	295.9	-684.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,643.3	-682.0	295.9	-684.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,743.3	-682.0	295.9	-684.2	0.00	0.00	0.00
11,900.0	0.00	0.00	11,843.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,000.0	0.00	0.00	11,943.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,100.0	0.00	0.00	12,043.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,200.0	0.00	0.00	12,143.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,300.0	0.00	0.00	12,243.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,400.0	0.00	0.00	12,343.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,500.0	0.00	0.00	12,443.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,600.0	0.00	0.00	12,543.3	-682.0	295.9	-684.2	0.00	0.00	0.00
12,610.7	0.00	0.00	12,554.0	-682.0	295.9	-684.2	0.00	0.00	0.00
12,650.0	3.93	355.00	12,593.3	-680.7	295.8	-682.8	10.00	10.00	0.00
12,700.0	8.93	355.00	12,643.0	-675.1	295.3	-677.2	10.00	10.00	0.00
12,750.0	13.93	355.00	12,692.0	-665.2	294.4	-667.3	10.00	10.00	0.00
12,800.0	18.93	355.00	12,739.9	-651.1	293.2	-653.2	10.00	10.00	0.00
12,850.0	23.93	355.00	12,786.4	-632.9	291.6	-635.0	10.00	10.00	0.00
12,900.0	28.93	355.00	12,831.2	-610.8	289.7	-612.9	10.00	10.00	0.00
12,950.0	33.93	355.00	12,873.8	-584.8	287.4	-586.9	10.00	10.00	0.00
13,000.0	38.93	355.00	12,914.1	-555.2	284.8	-557.3	10.00	10.00	0.00
13,050.0	43.93	355.00	12,951.5	-522.3	281.9	-524.3	10.00	10.00	0.00
13,100.0	48.93	355.00	12,986.0	-486.2	278.8	-488.2	10.00	10.00	0.00
13,150.0	53.93	355.00	13,017.1	-447.2	275.4	-449.3	10.00	10.00	0.00
13,200.0	58.93	355.00	13,044.8	-405.8	271.7	-407.7	10.00	10.00	0.00
13,250.0	63.93	355.00	13,068.7	-362.0	267.9	-364.0	10.00	10.00	0.00
13,300.0	68.93	355.00	13,088.7	-316.4	263.9	-318.3	10.00	10.00	0.00
13,350.0	73.93	355.00	13,104.6	-269.2	259.8	-271.1	10.00	10.00	0.00
13,400.0	78.93	355.00	13,116.3	-220.8	255.5	-222.6	10.00	10.00	0.00
13,450.0	83.93	355.00	13,123.7	-171.5	251.2	-173.4	10.00	10.00	0.00
13,500.0	88.93	355.00	13,126.9	-121.8	246.9	-123.6	10.00	10.00	0.00
13,510.7	90.00	355.00	13,127.0	-111.2	246.0	-113.0	10.00	10.00	0.00
13,600.0	90.00	356.79	13,127.0	-22.1	239.6	-23.9	2.00	0.00	2.00
13,700.0	90.00	358.79	13,127.0	77.8	235.7	76.1	2.00	0.00	2.00
13,739.6	90.00	359.58	13,127.0	117.4	235.1	115.7	2.00	0.00	2.00
13,800.0	90.00	359.58	13,127.0	177.8	234.7	176.1	0.00	0.00	0.00
13,900.0	90.00	359.58	13,127.0	277.8	234.0	276.1	0.00	0.00	0.00
14,000.0	90.00	359.58	13,127.0	377.8	233.2	376.1	0.00	0.00	0.00
14,100.0	90.00	359.58	13,127.0	477.8	232.5	476.1	0.00	0.00	0.00
14,200.0	90.00	359.58	13,127.0	577.8	231.8	576.1	0.00	0.00	0.00
14,300.0	90.00	359.58	13,127.0	677.8	231.0	676.1	0.00	0.00	0.00



Intrepid Planning Report



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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)
14,400.0	90.00	359.58	13,127.0	777.8	230.3	776.1	0.00	0.00	0.00
14,500.0	90.00	359.58	13,127.0	877.8	229.5	876.1	0.00	0.00	0.00
14,600.0	90.00	359.58	13,127.0	977.8	228.8	976.1	0.00	0.00	0.00
14,700.0	90.00	359.58	13,127.0	1,077.8	228.1	1,076.1	0.00	0.00	0.00
14,800.0	90.00	359.58	13,127.0	1,177.8	227.3	1,176.1	0.00	0.00	0.00
14,900.0	90.00	359.58	13,127.0	1,277.8	226.6	1,276.1	0.00	0.00	0.00
15,000.0	90.00	359.58	13,127.0	1,377.8	225.9	1,376.1	0.00	0.00	0.00
15,100.0	90.00	359.58	13,127.0	1,477.8	225.1	1,476.1	0.00	0.00	0.00
15,200.0	90.00	359.58	13,127.0	1,577.8	224.4	1,576.1	0.00	0.00	0.00
15,300.0	90.00	359.58	13,127.0	1,677.8	223.7	1,676.1	0.00	0.00	0.00
15,400.0	90.00	359.58	13,127.0	1,777.8	222.9	1,776.1	0.00	0.00	0.00
15,500.0	90.00	359.58	13,127.0	1,877.8	222.2	1,876.1	0.00	0.00	0.00
15,600.0	90.00	359.58	13,127.0	1,977.8	221.5	1,976.1	0.00	0.00	0.00
15,700.0	90.00	359.58	13,127.0	2,077.8	220.7	2,076.1	0.00	0.00	0.00
15,800.0	90.00	359.58	13,127.0	2,177.7	220.0	2,176.1	0.00	0.00	0.00
15,900.0	90.00	359.58	13,127.0	2,277.7	219.3	2,276.1	0.00	0.00	0.00
16,000.0	90.00	359.58	13,127.0	2,377.7	218.5	2,376.1	0.00	0.00	0.00
16,100.0	90.00	359.58	13,127.0	2,477.7	217.8	2,476.1	0.00	0.00	0.00
16,200.0	90.00	359.58	13,127.0	2,577.7	217.0	2,576.1	0.00	0.00	0.00
16,300.0	90.00	359.58	13,127.0	2,677.7	216.3	2,676.1	0.00	0.00	0.00
16,400.0	90.00	359.58	13,127.0	2,777.7	215.6	2,776.1	0.00	0.00	0.00
16,500.0	90.00	359.58	13,127.0	2,877.7	214.8	2,876.1	0.00	0.00	0.00
16,600.0	90.00	359.58	13,127.0	2,977.7	214.1	2,976.1	0.00	0.00	0.00
16,700.0	90.00	359.58	13,127.0	3,077.7	213.4	3,076.1	0.00	0.00	0.00
16,800.0	90.00	359.58	13,127.0	3,177.7	212.6	3,176.1	0.00	0.00	0.00
16,900.0	90.00	359.58	13,127.0	3,277.7	211.9	3,276.1	0.00	0.00	0.00
17,000.0	90.00	359.58	13,127.0	3,377.7	211.2	3,376.1	0.00	0.00	0.00
17,100.0	90.00	359.58	13,127.0	3,477.7	210.4	3,476.1	0.00	0.00	0.00
17,123.9	90.00	359.58	13,127.0	3,501.6	210.3	3,500.0	0.00	0.00	0.00
17,138.9	90.30	359.58	13,127.0	3,516.7	210.1	3,515.0	2.00	2.00	0.00
17,200.0	90.30	359.58	13,126.6	3,577.7	209.7	3,576.1	0.00	0.00	0.00
17,300.0	90.30	359.58	13,126.1	3,677.7	209.0	3,676.1	0.00	0.00	0.00
17,400.0	90.30	359.58	13,125.6	3,777.7	208.2	3,776.1	0.00	0.00	0.00
17,500.0	90.30	359.58	13,125.1	3,877.7	207.5	3,876.1	0.00	0.00	0.00
17,600.0	90.30	359.58	13,124.5	3,977.7	206.8	3,976.1	0.00	0.00	0.00
17,700.0	90.30	359.58	13,124.0	4,077.7	206.0	4,076.1	0.00	0.00	0.00
17,800.0	90.30	359.58	13,123.5	4,177.7	205.3	4,176.1	0.00	0.00	0.00
17,900.0	90.30	359.58	13,123.0	4,277.7	204.5	4,276.1	0.00	0.00	0.00
18,000.0	90.30	359.58	13,122.4	4,377.7	203.8	4,376.1	0.00	0.00	0.00
18,100.0	90.30	359.58	13,121.9	4,477.7	203.1	4,476.1	0.00	0.00	0.00
18,200.0	90.30	359.58	13,121.4	4,577.7	202.3	4,576.1	0.00	0.00	0.00
18,300.0	90.30	359.58	13,120.9	4,677.7	201.6	4,676.1	0.00	0.00	0.00
18,400.0	90.30	359.58	13,120.3	4,777.7	200.9	4,776.1	0.00	0.00	0.00
18,500.0	90.30	359.58	13,119.8	4,877.7	200.1	4,876.1	0.00	0.00	0.00
18,600.0	90.30	359.58	13,119.3	4,977.7	199.4	4,976.1	0.00	0.00	0.00
18,700.0	90.30	359.58	13,118.8	5,077.6	198.7	5,076.1	0.00	0.00	0.00
18,800.0	90.30	359.58	13,118.3	5,177.6	197.9	5,176.1	0.00	0.00	0.00
18,900.0	90.30	359.58	13,117.7	5,277.6	197.2	5,276.1	0.00	0.00	0.00
19,000.0	90.30	359.58	13,117.2	5,377.6	196.5	5,376.1	0.00	0.00	0.00
19,100.0	90.30	359.58	13,116.7	5,477.6	195.7	5,476.0	0.00	0.00	0.00
19,200.0	90.30	359.58	13,116.2	5,577.6	195.0	5,576.0	0.00	0.00	0.00
19,300.0	90.30	359.58	13,115.6	5,677.6	194.3	5,676.0	0.00	0.00	0.00
19,400.0	90.30	359.58	13,115.1	5,777.6	193.5	5,776.0	0.00	0.00	0.00
19,500.0	90.30	359.58	13,114.6	5,877.6	192.8	5,876.0	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #222H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3626.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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)
19,600.0	90.30	359.58	13,114.1	5,977.6	192.0	5,976.0	0.00	0.00	0.00
19,700.0	90.30	359.58	13,113.5	6,077.6	191.3	6,076.0	0.00	0.00	0.00
19,800.0	90.30	359.58	13,113.0	6,177.6	190.6	6,176.0	0.00	0.00	0.00
19,900.0	90.30	359.58	13,112.5	6,277.6	189.8	6,276.0	0.00	0.00	0.00
20,000.0	90.30	359.58	13,112.0	6,377.6	189.1	6,376.0	0.00	0.00	0.00
20,100.0	90.30	359.58	13,111.4	6,477.6	188.4	6,476.0	0.00	0.00	0.00
20,200.0	90.30	359.58	13,110.9	6,577.6	187.6	6,576.0	0.00	0.00	0.00
20,300.0	90.30	359.58	13,110.4	6,677.6	186.9	6,676.0	0.00	0.00	0.00
20,400.0	90.30	359.58	13,109.9	6,777.6	186.2	6,776.0	0.00	0.00	0.00
20,500.0	90.30	359.58	13,109.3	6,877.6	185.4	6,876.0	0.00	0.00	0.00
20,600.0	90.30	359.58	13,108.8	6,977.6	184.7	6,976.0	0.00	0.00	0.00
20,700.0	90.30	359.58	13,108.3	7,077.6	184.0	7,076.0	0.00	0.00	0.00
20,800.0	90.30	359.58	13,107.8	7,177.6	183.2	7,176.0	0.00	0.00	0.00
20,900.0	90.30	359.58	13,107.2	7,277.6	182.5	7,276.0	0.00	0.00	0.00
21,000.0	90.30	359.58	13,106.7	7,377.6	181.7	7,376.0	0.00	0.00	0.00
21,100.0	90.30	359.58	13,106.2	7,477.5	181.0	7,476.0	0.00	0.00	0.00
21,200.0	90.30	359.58	13,105.7	7,577.5	180.3	7,576.0	0.00	0.00	0.00
21,300.0	90.30	359.58	13,105.1	7,677.5	179.5	7,676.0	0.00	0.00	0.00
21,400.0	90.30	359.58	13,104.6	7,777.5	178.8	7,776.0	0.00	0.00	0.00
21,500.0	90.30	359.58	13,104.1	7,877.5	178.1	7,876.0	0.00	0.00	0.00
21,600.0	90.30	359.58	13,103.6	7,977.5	177.3	7,976.0	0.00	0.00	0.00
21,700.0	90.30	359.58	13,103.0	8,077.5	176.6	8,076.0	0.00	0.00	0.00
21,800.0	90.30	359.58	13,102.5	8,177.5	175.9	8,176.0	0.00	0.00	0.00
21,900.0	90.30	359.58	13,102.0	8,277.5	175.1	8,276.0	0.00	0.00	0.00
22,000.0	90.30	359.58	13,101.5	8,377.5	174.4	8,376.0	0.00	0.00	0.00
22,100.0	90.30	359.58	13,100.9	8,477.5	173.7	8,476.0	0.00	0.00	0.00
22,124.0	90.30	359.58	13,100.8	8,501.5	173.5	8,500.0	0.00	0.00	0.00
22,139.1	90.00	359.58	13,100.8	8,516.6	173.4	8,515.1	2.00	-2.00	0.00
22,200.0	90.00	359.58	13,100.8	8,577.5	172.9	8,576.0	0.00	0.00	0.00
22,300.0	90.00	359.58	13,100.8	8,677.5	172.2	8,676.0	0.00	0.00	0.00
22,400.0	90.00	359.58	13,100.8	8,777.5	171.5	8,776.0	0.00	0.00	0.00
22,500.0	90.00	359.58	13,100.8	8,877.5	170.7	8,876.0	0.00	0.00	0.00
22,600.0	90.00	359.58	13,100.8	8,977.5	170.0	8,976.0	0.00	0.00	0.00
22,700.0	90.00	359.58	13,100.8	9,077.5	169.2	9,076.0	0.00	0.00	0.00
22,800.0	90.00	359.58	13,100.8	9,177.5	168.5	9,176.0	0.00	0.00	0.00
22,900.0	90.00	359.58	13,100.8	9,277.5	167.8	9,276.0	0.00	0.00	0.00
23,000.0	90.00	359.58	13,100.8	9,377.5	167.0	9,376.0	0.00	0.00	0.00
23,100.0	90.00	359.58	13,100.8	9,477.5	166.3	9,476.0	0.00	0.00	0.00
23,200.0	90.00	359.58	13,100.8	9,577.5	165.6	9,576.0	0.00	0.00	0.00
23,300.0	90.00	359.58	13,100.8	9,677.5	164.8	9,676.0	0.00	0.00	0.00
23,400.0	90.00	359.58	13,100.8	9,777.5	164.1	9,776.0	0.00	0.00	0.00
23,413.5	90.00	359.58	13,100.8	9,791.0	164.0	9,789.5	0.00	0.00	0.00



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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
PBHL (Poseidon State - plan hits target center - Rectangle (sides W100.0 H1,289.5 D30.0)	0.00	359.58	13,100.8	9,791.0	164.0	456,896.00	774,730.00	32° 15' 13.775 N	103° 34' 42.051 W
LTP (Poseidon State - plan misses target center by 0.5usft at 23343.5usft MD (13100.8 TVD, 9721.0 N, 164.5 E) - Point	0.00	0.00	13,100.8	9,721.0	165.0	456,826.00	774,731.00	32° 15' 13.083 N	103° 34' 42.045 W
8500'VS (Poseidon St - plan hits target center - Rectangle (sides W100.0 H5,000.0 D30.0)	-0.30	359.58	13,100.8	8,501.5	173.5	455,606.50	774,739.48	32° 15' 1.015 N	103° 34' 42.046 W
3500'VS (Poseidon St - plan hits target center - Rectangle (sides W100.0 H4,133.0 D30.0)	0.00	359.58	13,127.0	3,501.6	210.3	450,606.60	774,776.25	32° 14' 11.537 N	103° 34' 42.027 W
FTP (Poseidon State - plan misses target center by 206.0usft at 13094.3usft MD (12982.2 TVD, -490.4 N, 279.1 E) - Point	0.00	0.00	13,127.0	-632.0	241.0	446,473.00	774,807.00	32° 13' 30.632 N	103° 34' 42.007 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,289.0	1,289.0	Rustler Anhydrite			
1,811.1	1,811.0	Top Salt			
4,977.6	4,953.0	Base Salt			
5,228.7	5,201.0	Delaware Mountain Gp			
5,235.8	5,208.0	Lamar			
5,256.1	5,228.0	Bell Canyon			
5,276.3	5,248.0	Ramsey Sand			
6,223.0	6,183.0	Cherry Canyon			
7,763.9	7,708.0	Brushy Canyon			
9,187.3	9,131.0	Bone Spring Lime			
9,317.4	9,261.0	Upper Avalon			
9,567.4	9,511.0	Middle Avalon			
10,002.5	9,946.0	Lower Avalon			
10,232.5	10,176.0	1st Bone Spring Sand			
10,521.5	10,465.0	2nd Bone Spring Carb			
10,892.6	10,836.0	2nd Bone Spring Sand			
11,458.7	11,402.0	3rd Bone Spring Carb			
12,053.7	11,997.0	3rd Bone Spring Sand			
12,345.7	12,289.0	3rd BS W Sand			
12,372.7	12,316.0	Wolfcamp A X Sand			
12,531.7	12,475.0	Wolfcamp A Y Sand			
12,626.7	12,570.0	Wolfcamp A Lower			
13,028.8	12,936.0	Wolfcamp B			
13,375.1	13,111.0	Wolfcamp B1			



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3626.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #222H	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 EAST - Build 1.00	
1,700.0	1,700.0	0.0	3.5	HOLD - 800.5 at 1700.0 MD	
2,500.5	2,500.0	0.0	31.4	NUDGE - DLS 1.00 TFO 78.46	
3,339.1	3,334.6	-60.0	72.8	HOLD - 3902.2 at 3339.1 MD	
7,241.2	7,188.7	-617.6	321.3	DROP - -1.00	
8,141.2	8,085.0	-682.0	350.0	DRIFT WEST - Build 1.00	
8,241.2	8,185.0	-682.0	349.1	HOLD - 3000.0 at 8241.2 MD	
11,241.2	11,184.5	-682.0	296.8	Start Drop -1.00	
11,341.2	11,284.5	-682.0	295.9	Start 1269.5 hold at 11341.2 MD	
12,610.7	12,554.0	-682.0	295.9	KOP - Build 10.00	
13,510.7	13,127.0	-111.2	246.0	EOC/TRN - DLS 2.00 TFO 90.01	
13,739.6	13,127.0	117.4	235.1	Start 3384.3 hold at 13739.6 MD	
17,123.9	13,127.0	3,501.6	210.3	Start DLS 2.00 TFO -0.01	
17,138.9	13,127.0	3,516.7	210.1	Start 4985.0 hold at 17138.9 MD	
22,124.0	13,100.8	8,501.5	173.5	Start DLS 2.00 TFO 180.00	
22,139.1	13,100.8	8,516.6	173.4	Start 1274.4 hold at 22139.1 MD	
23,413.5	13,100.8	9,791.0	164.0	TD at 23413.5	

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 57388

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 57388
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	NOTE POOLNAME AND POOL CODES WERE INCORRECT ON THE SUBMITTED C-102. c-102 WAS CORRECTED WITH THE CORRECT POOL NAME AND POOL CODE.	10/22/2021