

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. 30-025-47463
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Poseidon State Com
8. Well Number 172H
9. OGRID Number 372043
10. Pool name or Wildcat Triple X; Bone Spring West
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 [X] 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 N, 700 feet from the South line and 1961 feet from the West line. Section 9, Township 24S, Range 33E, NMPM, County LEA.

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS [X]
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
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 is proposing to change the SHL and the BHL for the Poseidon 172H. Due to this change the directional drilling plan has changed and is attached for detail.

Previously approved SHL: 700 FSL, 1961 FWL of Section 9, T24S, R33E
New proposed SHL: 723 FSL, 1988 FWL of Section 9, T24S, R33E

Previous approved BHL: 30 FNL, 1980 FWL of Section 4, T24S, R33E
New proposed BHL: 30 FNL, 2182 FWL of Section 4, T24S, R33E

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

SIGNATURE [Signature] TITLE Regulatory Analyst DATE 3/9/2021

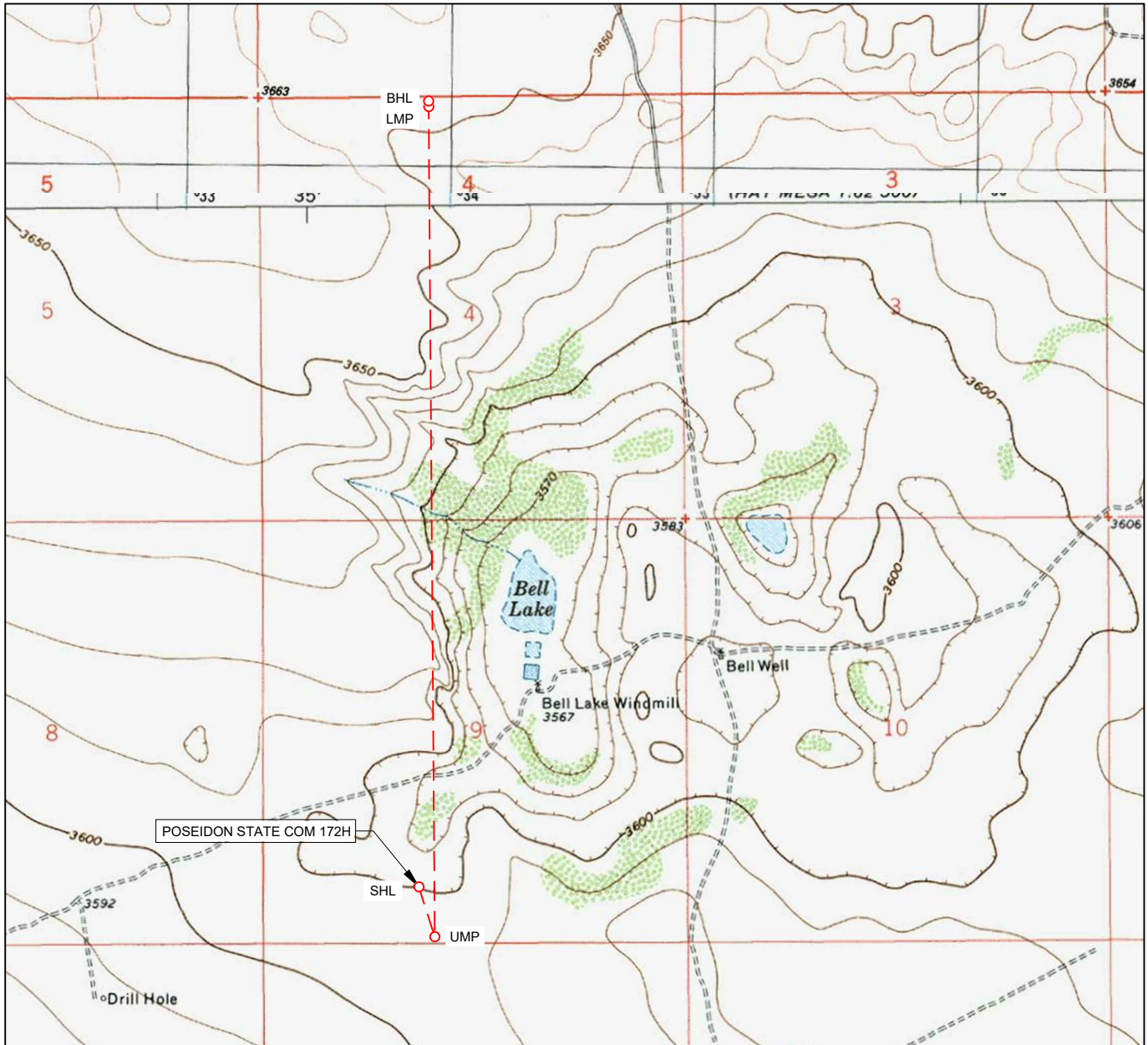
Type or print name Bill Ramsey E-mail address: bramsey@taprk.com PHONE: 720-238-2787

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):

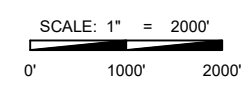
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3599'
 DESCRIPTION 723' FSL & 1988' FWL

LATITUDE N 32.2268904 LONGITUDE W 103.5793603

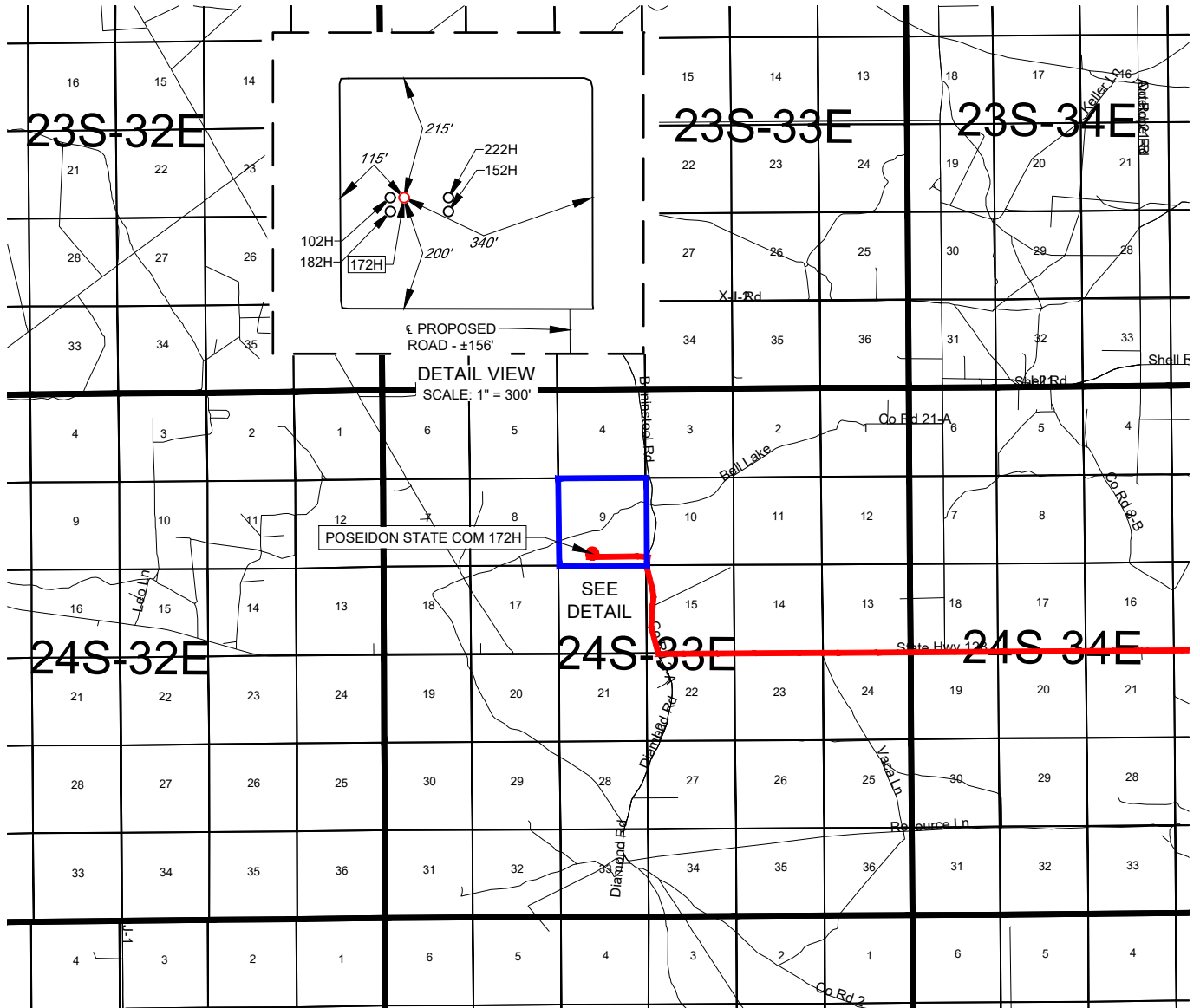


THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

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

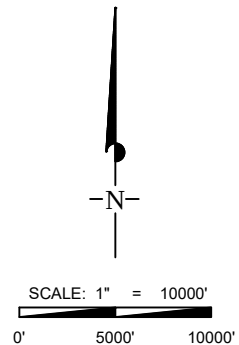
EXHIBIT 2
VICINITY MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 723' FSL & 1988' 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 ± 360 FEET
 SOUTHEAST OF THE LOCATION.



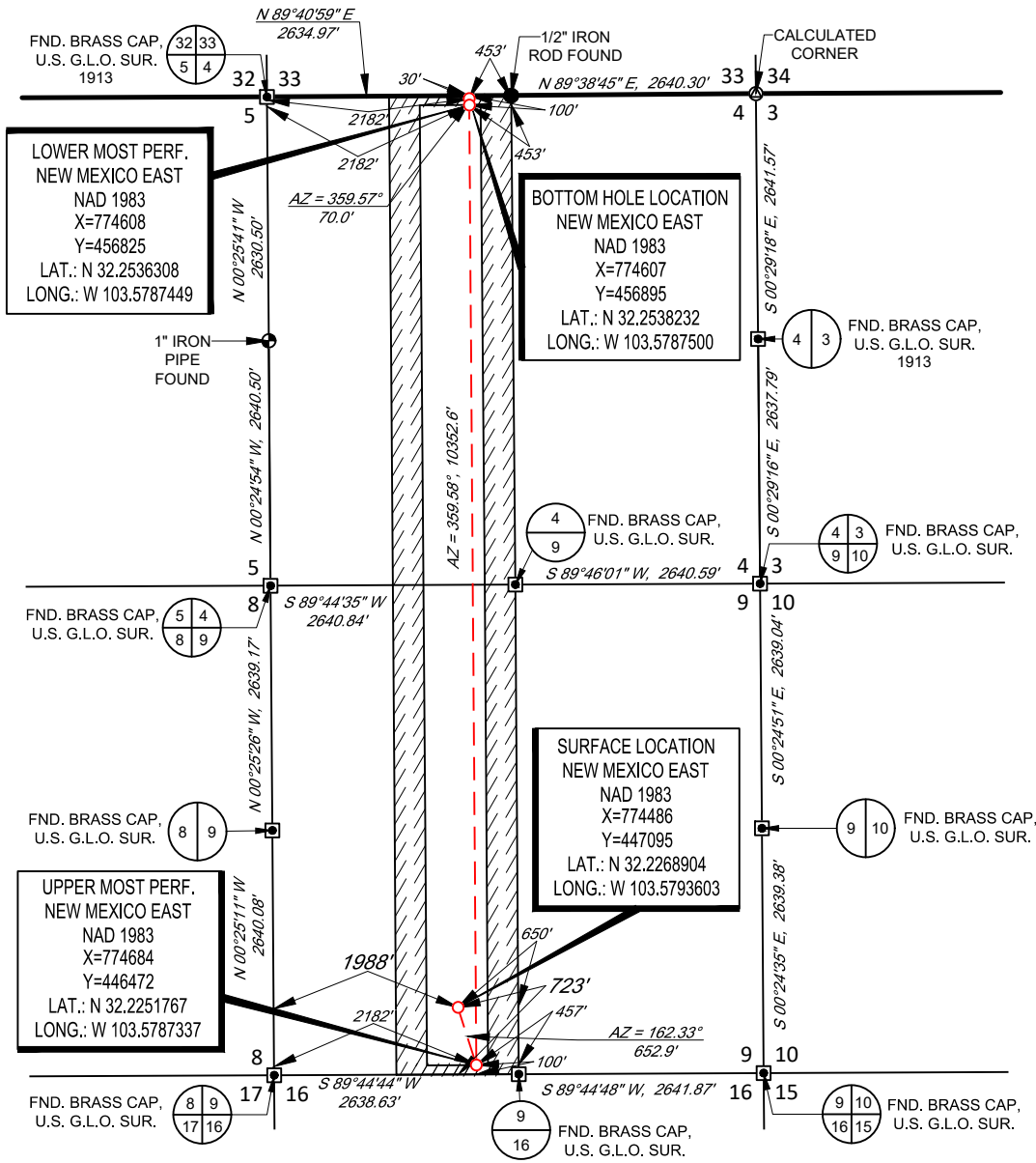
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

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.

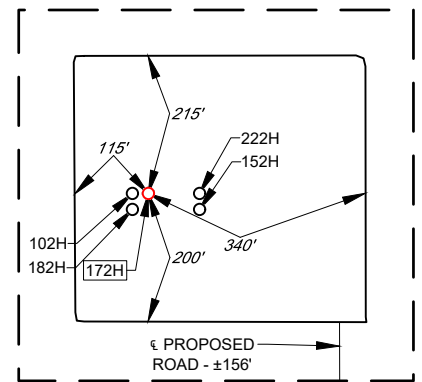
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

TAP ROCK EXHIBIT 2A

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



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



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 723' FSL & 1988' 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 ±360 FEET SOUTHEAST OF THE LOCATION.



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



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

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.

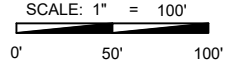
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

EXHIBIT 2B



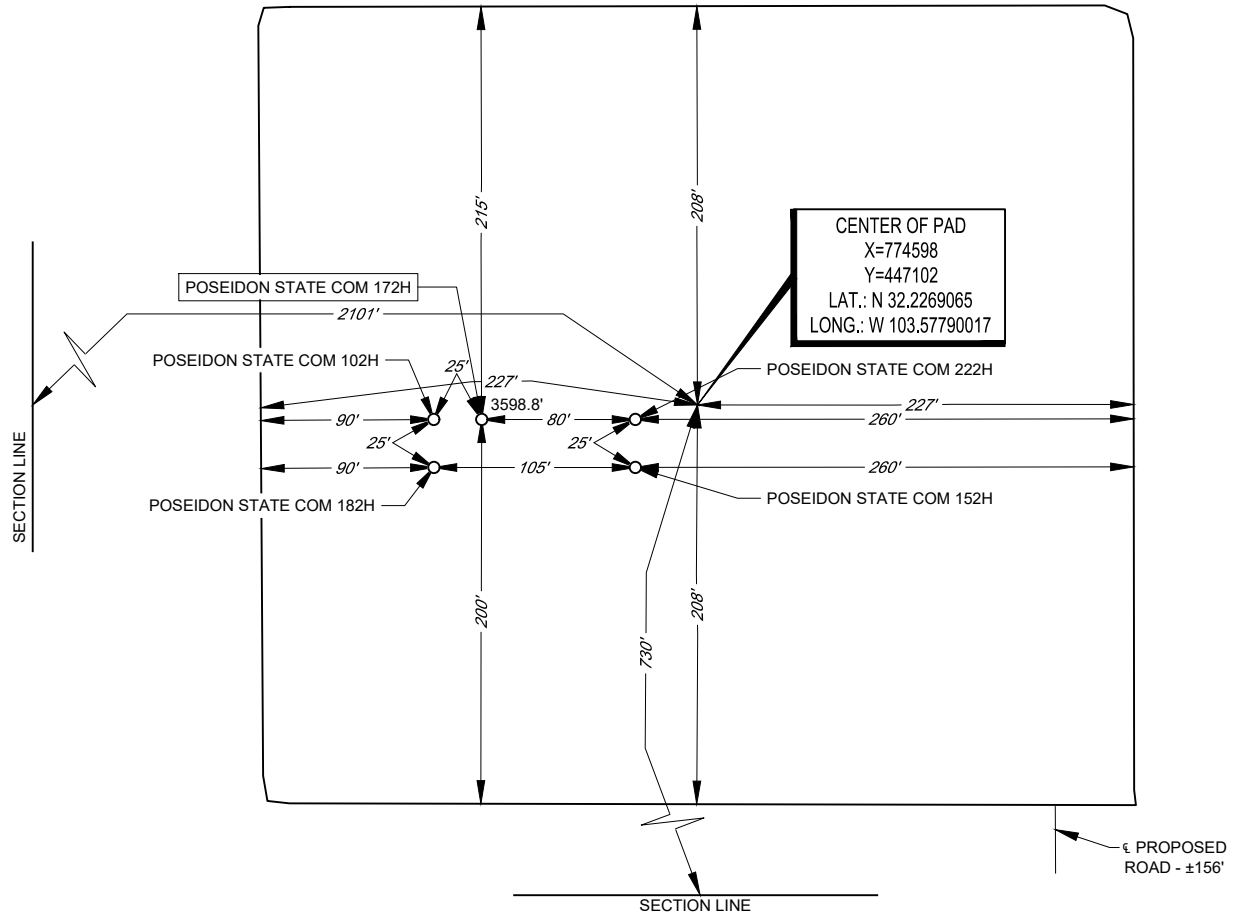
SECTION 9, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



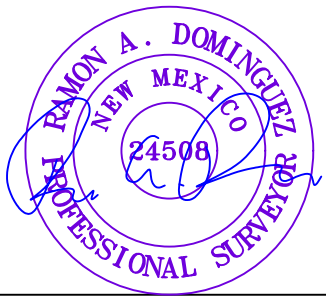
LEGEND

- SECTION LINE
- PROPOSED ROAD



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H
 172H LATITUDE N 32.2268904 172H LONGITUDE W 103.5793603

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.

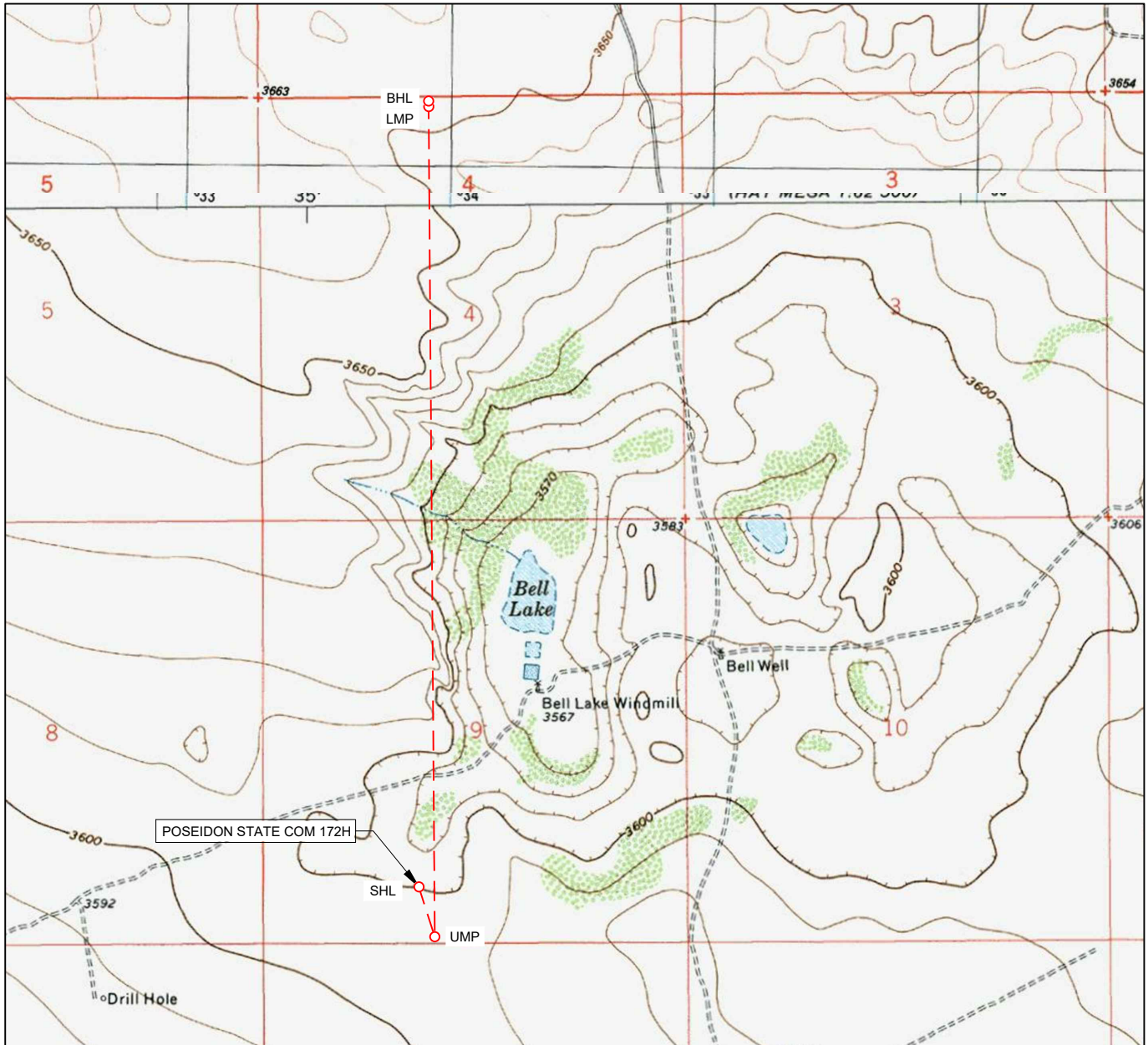
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY 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"

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

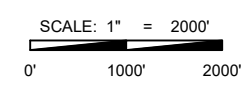
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3599'
 DESCRIPTION 723' FSL & 1988' FWL

LATITUDE N 32.2268904 LONGITUDE W 103.5793603



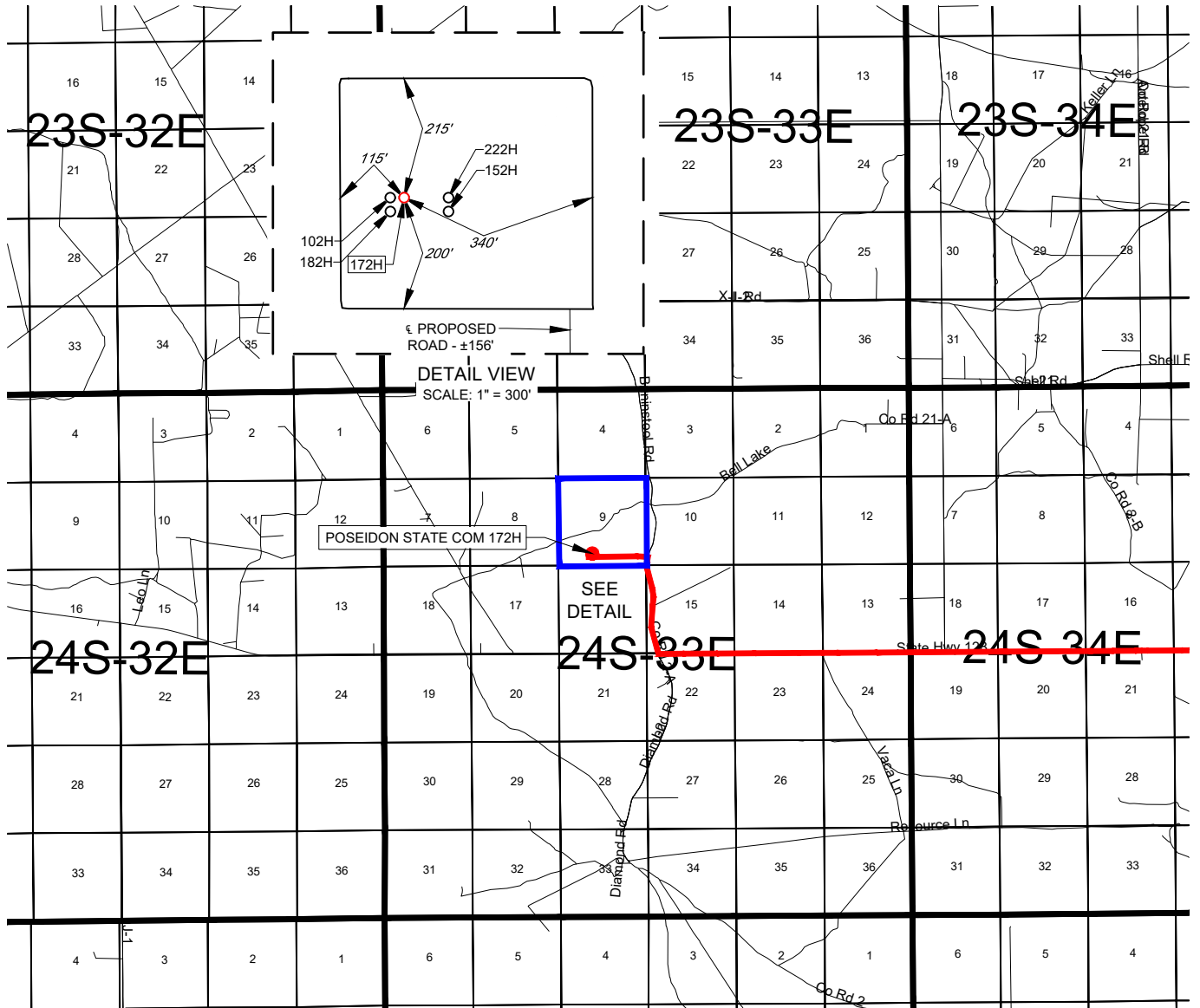
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

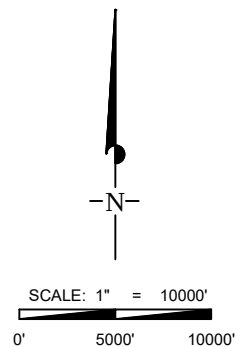
EXHIBIT 2
VICINITY MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 723' FSL & 1988' 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 ± 360 FEET
 SOUTHEAST OF THE LOCATION.



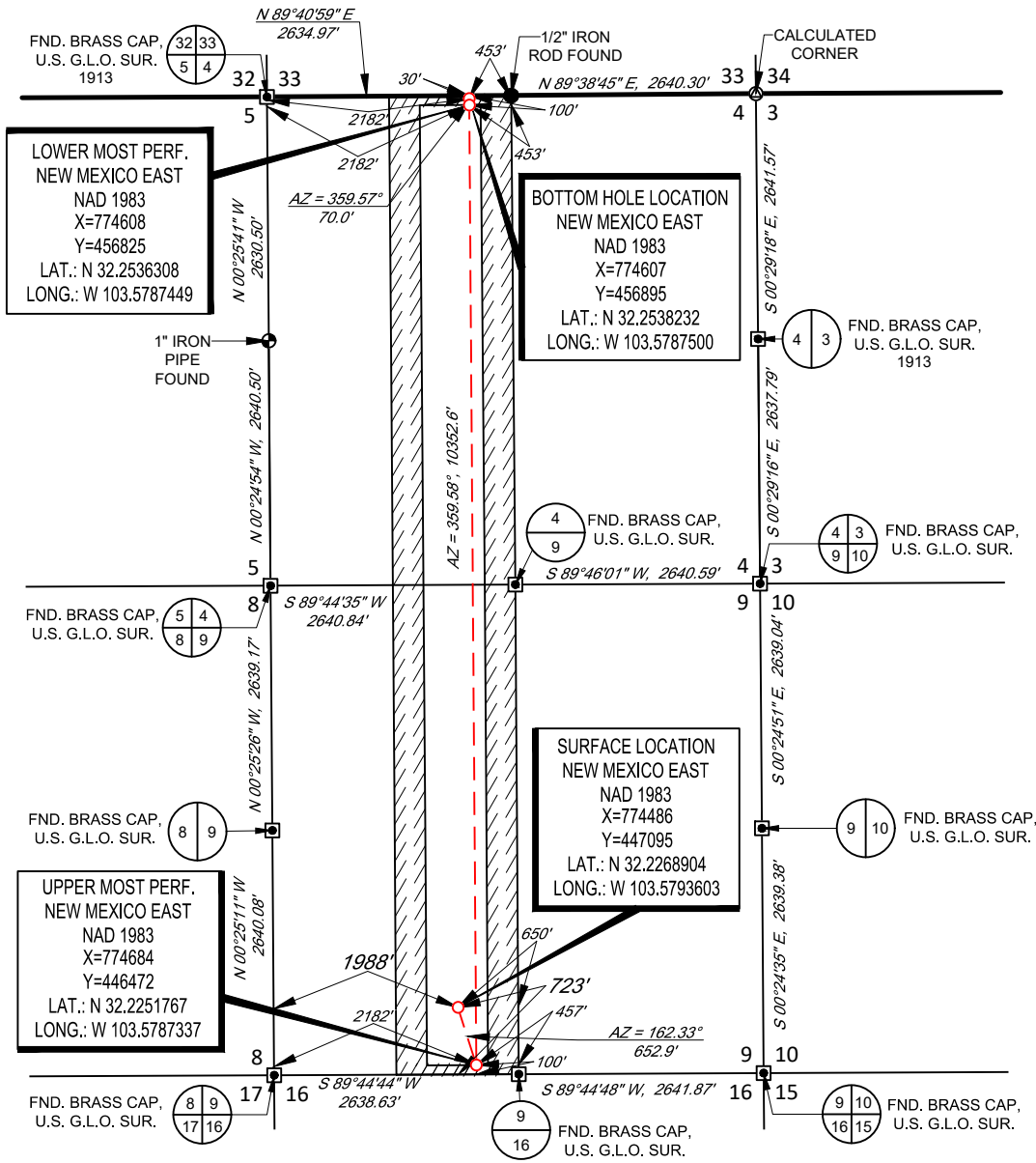
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

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.

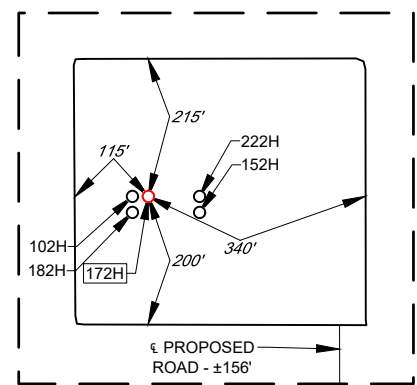
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

TAP ROCK EXHIBIT 2A

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



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



LEASE NAME & WELL NO.: POSEIDON STATE COM 172H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 723' FSL & 1988' 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 ±360 FEET SOUTHEAST OF THE LOCATION.



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



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

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.

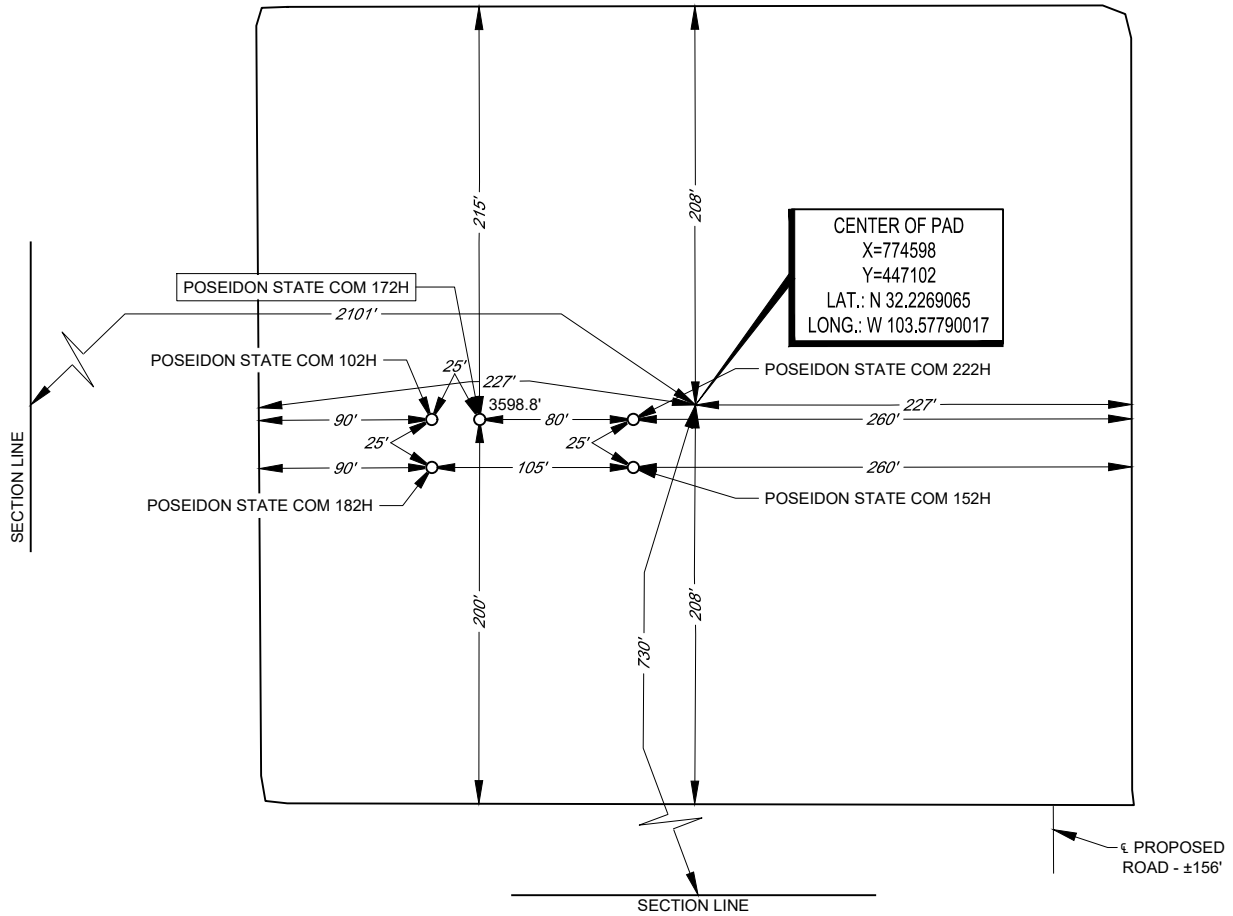
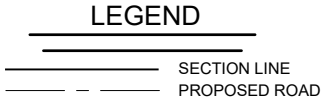
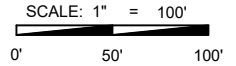
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

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 172H
172H LATITUDE N 32.2268904 172H LONGITUDE W 103.5793603

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.



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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Poseidon) Sec-9_T-24-E_R-33-E
Poseidon State Com #172H

OWB

Plan: Plan #1

Standard Planning Report

04 March, 2021





Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	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-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 #172H					
Well Position	+N/-S	350.0 usft	Northing:	447,095.00 usft	Latitude:	32° 13' 36.810 N
	+E/-W	821.0 usft	Easting:	774,486.00 usft	Longitude:	103° 34' 45.693 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,599.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/29/19	6.71	60.03	47,702.78890256

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	03/04/21		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	9,121.0 Plan #1 (OWB)	MWD	
			OWSG MWD - Standard	
2	9,121.0	19,880.2 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 #172H
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 #172H	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.1	9.00	163.61	2,597.6	-45.1	13.3	1.50	1.50	0.00	163.61	
6,482.7	9.00	163.61	6,432.4	-627.9	184.7	0.00	0.00	0.00	0.00	
7,082.7	0.00	0.01	7,030.0	-673.0	198.0	1.50	-1.50	0.00	180.00	
9,077.7	0.00	0.01	9,025.0	-673.0	198.0	0.00	0.00	0.00	0.01	
9,977.8	90.01	359.58	9,598.0	-100.0	193.8	10.00	10.00	0.00	359.58	
14,179.2	90.01	359.58	9,597.2	4,101.3	163.0	0.00	0.00	0.00	0.00	
14,408.2	90.01	355.00	9,597.2	4,330.0	152.2	2.00	0.00	-2.00	-90.00	
14,608.2	90.01	355.00	9,597.1	4,529.2	134.7	0.00	0.00	0.00	0.00	
14,858.5	90.01	0.01	9,597.1	4,779.2	123.8	2.00	0.00	2.00	90.00	
14,958.5	90.01	0.01	9,597.1	4,879.2	123.9	0.00	0.00	0.00	0.00	
15,158.2	90.01	4.00	9,597.1	5,078.7	130.8	2.00	0.00	2.00	90.00	
15,368.2	90.01	4.00	9,597.0	5,288.2	145.5	0.00	0.00	0.00	0.00	
15,589.2	90.01	359.58	9,597.0	5,509.0	152.4	2.00	0.00	-2.00	-90.01	
19,880.3	90.01	359.58	9,596.3	9,800.0	121.0	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 #172H
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 #172H	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	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,243.0	0.00	0.00	1,243.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,765.0	0.00	0.00	1,765.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.50	163.61	2,100.0	-1.3	0.4	-1.3	1.50	1.50	0.00
2,200.0	3.00	163.61	2,199.9	-5.0	1.5	-5.0	1.50	1.50	0.00
2,300.0	4.50	163.61	2,299.7	-11.3	3.3	-11.3	1.50	1.50	0.00
2,400.0	6.00	163.61	2,399.3	-20.1	5.9	-20.1	1.50	1.50	0.00
2,500.0	7.50	163.61	2,498.6	-31.3	9.2	-31.4	1.50	1.50	0.00
2,600.1	9.00	163.61	2,597.6	-45.1	13.3	-45.2	1.50	1.50	0.00
2,700.0	9.00	163.61	2,696.3	-60.1	17.7	-60.3	0.00	0.00	0.00
2,800.0	9.00	163.61	2,795.1	-75.1	22.1	-75.3	0.00	0.00	0.00
2,900.0	9.00	163.61	2,893.8	-90.1	26.5	-90.3	0.00	0.00	0.00
3,000.0	9.00	163.61	2,992.6	-105.2	30.9	-105.4	0.00	0.00	0.00
3,100.0	9.00	163.61	3,091.4	-120.2	35.4	-120.4	0.00	0.00	0.00
3,200.0	9.00	163.61	3,190.1	-135.2	39.8	-135.5	0.00	0.00	0.00
3,300.0	9.00	163.61	3,288.9	-150.2	44.2	-150.5	0.00	0.00	0.00
3,400.0	9.00	163.61	3,387.7	-165.2	48.6	-165.5	0.00	0.00	0.00
3,500.0	9.00	163.61	3,486.5	-180.2	53.0	-180.6	0.00	0.00	0.00
3,600.0	9.00	163.61	3,585.2	-195.2	57.4	-195.6	0.00	0.00	0.00
3,700.0	9.00	163.61	3,684.0	-210.2	61.8	-210.7	0.00	0.00	0.00
3,800.0	9.00	163.61	3,782.8	-225.2	66.3	-225.7	0.00	0.00	0.00
3,900.0	9.00	163.61	3,881.5	-240.2	70.7	-240.7	0.00	0.00	0.00
4,000.0	9.00	163.61	3,980.3	-255.2	75.1	-255.8	0.00	0.00	0.00
4,100.0	9.00	163.61	4,079.1	-270.3	79.5	-270.8	0.00	0.00	0.00
4,200.0	9.00	163.61	4,177.8	-285.3	83.9	-285.9	0.00	0.00	0.00
4,300.0	9.00	163.61	4,276.6	-300.3	88.3	-300.9	0.00	0.00	0.00
4,400.0	9.00	163.61	4,375.4	-315.3	92.8	-316.0	0.00	0.00	0.00
4,500.0	9.00	163.61	4,474.1	-330.3	97.2	-331.0	0.00	0.00	0.00
4,600.0	9.00	163.61	4,572.9	-345.3	101.6	-346.0	0.00	0.00	0.00
4,700.0	9.00	163.61	4,671.7	-360.3	106.0	-361.1	0.00	0.00	0.00
4,800.0	9.00	163.61	4,770.4	-375.3	110.4	-376.1	0.00	0.00	0.00
4,900.0	9.00	163.61	4,869.2	-390.3	114.8	-391.2	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	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)	
4,938.3	9.00	163.61	4,907.0	-396.1	116.5	-396.9	0.00	0.00	0.00	
Base Salt										
5,000.0	9.00	163.61	4,968.0	-405.3	119.3	-406.2	0.00	0.00	0.00	
5,100.0	9.00	163.61	5,066.7	-420.3	123.7	-421.2	0.00	0.00	0.00	
5,189.4	9.00	163.61	5,155.0	-433.8	127.6	-434.7	0.00	0.00	0.00	
Delaware Mountain Gp										
5,196.4	9.00	163.61	5,162.0	-434.8	127.9	-435.7	0.00	0.00	0.00	
Lamar										
5,200.0	9.00	163.61	5,165.5	-435.4	128.1	-436.3	0.00	0.00	0.00	
5,216.7	9.00	163.61	5,182.0	-437.9	128.8	-438.8	0.00	0.00	0.00	
Bell Canyon										
5,236.9	9.00	163.61	5,202.0	-440.9	129.7	-441.8	0.00	0.00	0.00	
Ramsey Sand										
5,300.0	9.00	163.61	5,264.3	-450.4	132.5	-451.3	0.00	0.00	0.00	
5,400.0	9.00	163.61	5,363.1	-465.4	136.9	-466.4	0.00	0.00	0.00	
5,500.0	9.00	163.61	5,461.8	-480.4	141.3	-481.4	0.00	0.00	0.00	
5,600.0	9.00	163.61	5,560.6	-495.4	145.7	-496.4	0.00	0.00	0.00	
5,700.0	9.00	163.61	5,659.4	-510.4	150.2	-511.5	0.00	0.00	0.00	
5,800.0	9.00	163.61	5,758.1	-525.4	154.6	-526.5	0.00	0.00	0.00	
5,900.0	9.00	163.61	5,856.9	-540.4	159.0	-541.6	0.00	0.00	0.00	
6,000.0	9.00	163.61	5,955.7	-555.4	163.4	-556.6	0.00	0.00	0.00	
6,100.0	9.00	163.61	6,054.4	-570.4	167.8	-571.7	0.00	0.00	0.00	
6,183.6	9.00	163.61	6,137.0	-583.0	171.5	-584.2	0.00	0.00	0.00	
Cherry Canyon										
6,200.0	9.00	163.61	6,153.2	-585.4	172.2	-586.7	0.00	0.00	0.00	
6,300.0	9.00	163.61	6,252.0	-600.5	176.7	-601.7	0.00	0.00	0.00	
6,400.0	9.00	163.61	6,350.7	-615.5	181.1	-616.8	0.00	0.00	0.00	
6,482.7	9.00	163.61	6,432.4	-627.9	184.7	-629.2	0.00	0.00	0.00	
6,500.0	8.74	163.61	6,449.5	-630.4	185.5	-631.8	1.50	-1.50	0.00	
6,600.0	7.24	163.61	6,548.5	-643.8	189.4	-645.1	1.50	-1.50	0.00	
6,700.0	5.74	163.61	6,647.9	-654.6	192.6	-656.0	1.50	-1.50	0.00	
6,800.0	4.24	163.61	6,747.5	-663.0	195.0	-664.4	1.50	-1.50	0.00	
6,900.0	2.74	163.61	6,847.3	-668.8	196.8	-670.2	1.50	-1.50	0.00	
7,000.0	1.24	163.61	6,947.3	-672.1	197.7	-673.6	1.50	-1.50	0.00	
7,082.7	0.00	0.01	7,030.0	-673.0	198.0	-674.4	1.50	-1.50	0.00	
7,100.0	0.00	0.00	7,047.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,147.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,247.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,347.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,447.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,547.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,647.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,714.7	0.00	0.00	7,662.0	-673.0	198.0	-674.4	0.00	0.00	0.00	
Brushy Canyon										
7,800.0	0.00	0.00	7,747.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,847.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,947.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,047.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,147.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,247.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,347.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,447.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,547.3	-673.0	198.0	-674.4	0.00	0.00	0.00	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	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)	
8,700.0	0.00	0.00	8,647.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,747.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,847.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,947.3	-673.0	198.0	-674.4	0.00	0.00	0.00	
9,077.7	0.00	0.01	9,025.0	-673.0	198.0	-674.4	0.00	0.00	0.00	
9,100.0	2.23	359.58	9,047.3	-672.6	198.0	-674.0	10.00	10.00	0.00	
9,137.9	6.01	359.58	9,085.0	-669.8	198.0	-671.3	10.00	10.00	0.00	
Bone Spring Lime										
9,150.0	7.23	359.58	9,097.1	-668.4	198.0	-669.9	10.00	10.00	0.00	
9,200.0	12.23	359.58	9,146.3	-660.0	197.9	-661.4	10.00	10.00	0.00	
9,250.0	17.23	359.58	9,194.7	-647.3	197.8	-648.7	10.00	10.00	0.00	
9,271.4	19.37	359.58	9,215.0	-640.6	197.8	-642.0	10.00	10.00	0.00	
Upper Avalon										
9,300.0	22.23	359.58	9,241.7	-630.4	197.7	-631.9	10.00	10.00	0.00	
9,350.0	27.23	359.58	9,287.1	-609.5	197.5	-611.0	10.00	10.00	0.00	
9,400.0	32.23	359.58	9,330.5	-584.7	197.4	-586.2	10.00	10.00	0.00	
9,450.0	37.23	359.58	9,371.6	-556.3	197.1	-557.7	10.00	10.00	0.00	
9,500.0	42.23	359.58	9,410.1	-524.3	196.9	-525.8	10.00	10.00	0.00	
9,550.0	47.23	359.58	9,445.6	-489.1	196.7	-490.6	10.00	10.00	0.00	
9,579.4	50.17	359.58	9,465.0	-467.0	196.5	-468.5	10.00	10.00	0.00	
Middle Avalon										
9,600.0	52.23	359.58	9,477.9	-451.0	196.4	-452.4	10.00	10.00	0.00	
9,650.0	57.23	359.58	9,506.7	-410.2	196.1	-411.6	10.00	10.00	0.00	
9,700.0	62.23	359.58	9,531.9	-367.0	195.8	-368.5	10.00	10.00	0.00	
9,750.0	67.23	359.58	9,553.3	-321.8	195.4	-323.3	10.00	10.00	0.00	
9,800.0	72.23	359.58	9,570.6	-275.0	195.1	-276.4	10.00	10.00	0.00	
9,850.0	77.23	359.58	9,583.8	-226.7	194.7	-228.2	10.00	10.00	0.00	
9,900.0	82.23	359.58	9,592.7	-177.6	194.4	-179.0	10.00	10.00	0.00	
9,950.0	87.23	359.58	9,597.3	-127.8	194.0	-129.2	10.00	10.00	0.00	
9,977.8	90.01	359.58	9,598.0	-100.0	193.8	-101.4	10.00	10.00	0.00	
10,000.0	90.01	359.58	9,598.0	-77.8	193.6	-79.2	0.00	0.00	0.00	
10,100.0	90.01	359.58	9,597.9	22.2	192.9	20.8	0.00	0.00	0.00	
10,200.0	90.01	359.58	9,597.9	122.2	192.2	120.8	0.00	0.00	0.00	
10,300.0	90.01	359.58	9,597.9	222.2	191.4	220.8	0.00	0.00	0.00	
10,400.0	90.01	359.58	9,597.9	322.2	190.7	320.8	0.00	0.00	0.00	
10,500.0	90.01	359.58	9,597.9	422.2	190.0	420.8	0.00	0.00	0.00	
10,600.0	90.01	359.58	9,597.8	522.2	189.2	520.8	0.00	0.00	0.00	
10,700.0	90.01	359.58	9,597.8	622.2	188.5	620.8	0.00	0.00	0.00	
10,800.0	90.01	359.58	9,597.8	722.2	187.8	720.8	0.00	0.00	0.00	
10,900.0	90.01	359.58	9,597.8	822.2	187.0	820.8	0.00	0.00	0.00	
11,000.0	90.01	359.58	9,597.8	922.2	186.3	920.8	0.00	0.00	0.00	
11,100.0	90.01	359.58	9,597.8	1,022.2	185.6	1,020.8	0.00	0.00	0.00	
11,200.0	90.01	359.58	9,597.7	1,122.2	184.8	1,120.8	0.00	0.00	0.00	
11,300.0	90.01	359.58	9,597.7	1,222.2	184.1	1,220.8	0.00	0.00	0.00	
11,400.0	90.01	359.58	9,597.7	1,322.2	183.4	1,320.8	0.00	0.00	0.00	
11,500.0	90.01	359.58	9,597.7	1,422.2	182.6	1,420.8	0.00	0.00	0.00	
11,600.0	90.01	359.58	9,597.7	1,522.2	181.9	1,520.8	0.00	0.00	0.00	
11,700.0	90.01	359.58	9,597.7	1,622.2	181.2	1,620.8	0.00	0.00	0.00	
11,800.0	90.01	359.58	9,597.6	1,722.2	180.4	1,720.8	0.00	0.00	0.00	
11,900.0	90.01	359.58	9,597.6	1,822.1	179.7	1,820.8	0.00	0.00	0.00	
12,000.0	90.01	359.58	9,597.6	1,922.1	179.0	1,920.8	0.00	0.00	0.00	
12,100.0	90.01	359.58	9,597.6	2,022.1	178.2	2,020.8	0.00	0.00	0.00	
12,200.0	90.01	359.58	9,597.6	2,122.1	177.5	2,120.8	0.00	0.00	0.00	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	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)
12,300.0	90.01	359.58	9,597.6	2,222.1	176.8	2,220.8	0.00	0.00	0.00
12,400.0	90.01	359.58	9,597.5	2,322.1	176.0	2,320.8	0.00	0.00	0.00
12,500.0	90.01	359.58	9,597.5	2,422.1	175.3	2,420.8	0.00	0.00	0.00
12,600.0	90.01	359.58	9,597.5	2,522.1	174.6	2,520.8	0.00	0.00	0.00
12,700.0	90.01	359.58	9,597.5	2,622.1	173.8	2,620.8	0.00	0.00	0.00
12,800.0	90.01	359.58	9,597.5	2,722.1	173.1	2,720.8	0.00	0.00	0.00
12,900.0	90.01	359.58	9,597.4	2,822.1	172.4	2,820.8	0.00	0.00	0.00
13,000.0	90.01	359.58	9,597.4	2,922.1	171.6	2,920.8	0.00	0.00	0.00
13,100.0	90.01	359.58	9,597.4	3,022.1	170.9	3,020.8	0.00	0.00	0.00
13,200.0	90.01	359.58	9,597.4	3,122.1	170.2	3,120.8	0.00	0.00	0.00
13,300.0	90.01	359.58	9,597.4	3,222.1	169.4	3,220.8	0.00	0.00	0.00
13,400.0	90.01	359.58	9,597.4	3,322.1	168.7	3,320.8	0.00	0.00	0.00
13,500.0	90.01	359.58	9,597.3	3,422.1	168.0	3,420.8	0.00	0.00	0.00
13,600.0	90.01	359.58	9,597.3	3,522.1	167.2	3,520.8	0.00	0.00	0.00
13,700.0	90.01	359.58	9,597.3	3,622.1	166.5	3,620.8	0.00	0.00	0.00
13,800.0	90.01	359.58	9,597.3	3,722.1	165.8	3,720.8	0.00	0.00	0.00
13,900.0	90.01	359.58	9,597.3	3,822.1	165.0	3,820.8	0.00	0.00	0.00
14,000.0	90.01	359.58	9,597.3	3,922.1	164.3	3,920.8	0.00	0.00	0.00
14,100.0	90.01	359.58	9,597.2	4,022.1	163.6	4,020.8	0.00	0.00	0.00
14,179.2	90.01	359.58	9,597.2	4,101.3	163.0	4,100.0	0.00	0.00	0.00
14,200.0	90.01	359.16	9,597.2	4,122.1	162.8	4,120.8	2.00	0.00	-2.00
14,300.0	90.01	357.16	9,597.2	4,222.0	159.6	4,220.7	2.00	0.00	-2.00
14,408.2	90.01	355.00	9,597.2	4,330.0	152.2	4,328.8	2.00	0.00	-2.00
14,500.0	90.01	355.00	9,597.2	4,421.4	144.2	4,420.2	0.00	0.00	0.00
14,608.2	90.01	355.00	9,597.1	4,529.2	134.7	4,528.1	0.00	0.00	0.00
14,700.0	90.01	356.84	9,597.1	4,620.8	128.2	4,619.7	2.00	0.00	2.00
14,800.0	90.01	358.84	9,597.1	4,720.7	124.4	4,719.7	2.00	0.00	2.00
14,858.5	90.01	0.01	9,597.1	4,779.2	123.8	4,778.1	2.00	0.00	2.00
14,900.0	90.01	0.01	9,597.1	4,820.7	123.8	4,819.7	0.00	0.00	0.00
14,958.5	90.01	0.01	9,597.1	4,879.2	123.9	4,878.1	0.00	0.00	0.00
15,000.0	90.01	0.84	9,597.1	4,920.7	124.2	4,919.6	2.00	0.00	2.00
15,100.0	90.01	2.84	9,597.1	5,020.6	127.4	5,019.6	2.00	0.00	2.00
15,158.2	90.01	4.00	9,597.1	5,078.7	130.8	5,077.7	2.00	0.00	2.00
15,200.0	90.01	4.00	9,597.0	5,120.4	133.7	5,119.3	0.00	0.00	0.00
15,300.0	90.01	4.00	9,597.0	5,220.2	140.7	5,219.0	0.00	0.00	0.00
15,368.2	90.01	4.00	9,597.0	5,288.2	145.5	5,287.0	0.00	0.00	0.00
15,400.0	90.01	3.36	9,597.0	5,320.0	147.5	5,318.7	2.00	0.00	-2.00
15,500.0	90.01	1.36	9,597.0	5,419.9	151.6	5,418.6	2.00	0.00	-2.00
15,589.2	90.01	359.58	9,597.0	5,509.0	152.4	5,507.8	2.00	0.00	-2.00
15,600.0	90.01	359.58	9,597.0	5,519.9	152.3	5,518.6	0.00	0.00	0.00
15,700.0	90.01	359.58	9,597.0	5,619.9	151.6	5,618.6	0.00	0.00	0.00
15,800.0	90.01	359.58	9,596.9	5,719.8	150.8	5,718.6	0.00	0.00	0.00
15,900.0	90.01	359.58	9,596.9	5,819.8	150.1	5,818.6	0.00	0.00	0.00
16,000.0	90.01	359.58	9,596.9	5,919.8	149.4	5,918.6	0.00	0.00	0.00
16,100.0	90.01	359.58	9,596.9	6,019.8	148.6	6,018.6	0.00	0.00	0.00
16,200.0	90.01	359.58	9,596.9	6,119.8	147.9	6,118.6	0.00	0.00	0.00
16,300.0	90.01	359.58	9,596.9	6,219.8	147.2	6,218.6	0.00	0.00	0.00
16,400.0	90.01	359.58	9,596.8	6,319.8	146.5	6,318.6	0.00	0.00	0.00
16,500.0	90.01	359.58	9,596.8	6,419.8	145.7	6,418.6	0.00	0.00	0.00
16,600.0	90.01	359.58	9,596.8	6,519.8	145.0	6,518.6	0.00	0.00	0.00
16,700.0	90.01	359.58	9,596.8	6,619.8	144.3	6,618.6	0.00	0.00	0.00
16,800.0	90.01	359.58	9,596.8	6,719.8	143.5	6,718.6	0.00	0.00	0.00
16,900.0	90.01	359.58	9,596.8	6,819.8	142.8	6,818.6	0.00	0.00	0.00
17,000.0	90.01	359.58	9,596.8	6,919.8	142.1	6,918.6	0.00	0.00	0.00



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	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)	
17,100.0	90.01	359.58	9,596.7	7,019.8	141.3	7,018.6	0.00	0.00	0.00	
17,200.0	90.01	359.58	9,596.7	7,119.8	140.6	7,118.6	0.00	0.00	0.00	
17,300.0	90.01	359.58	9,596.7	7,219.8	139.9	7,218.6	0.00	0.00	0.00	
17,400.0	90.01	359.58	9,596.7	7,319.8	139.1	7,318.6	0.00	0.00	0.00	
17,500.0	90.01	359.58	9,596.7	7,419.8	138.4	7,418.6	0.00	0.00	0.00	
17,600.0	90.01	359.58	9,596.7	7,519.8	137.7	7,518.6	0.00	0.00	0.00	
17,700.0	90.01	359.58	9,596.6	7,619.8	136.9	7,618.6	0.00	0.00	0.00	
17,800.0	90.01	359.58	9,596.6	7,719.8	136.2	7,718.6	0.00	0.00	0.00	
17,900.0	90.01	359.58	9,596.6	7,819.8	135.5	7,818.6	0.00	0.00	0.00	
18,000.0	90.01	359.58	9,596.6	7,919.8	134.8	7,918.6	0.00	0.00	0.00	
18,100.0	90.01	359.58	9,596.6	8,019.8	134.0	8,018.6	0.00	0.00	0.00	
18,200.0	90.01	359.58	9,596.6	8,119.8	133.3	8,118.6	0.00	0.00	0.00	
18,300.0	90.01	359.58	9,596.5	8,219.8	132.6	8,218.6	0.00	0.00	0.00	
18,400.0	90.01	359.58	9,596.5	8,319.8	131.8	8,318.6	0.00	0.00	0.00	
18,500.0	90.01	359.58	9,596.5	8,419.8	131.1	8,418.6	0.00	0.00	0.00	
18,600.0	90.01	359.58	9,596.5	8,519.8	130.4	8,518.6	0.00	0.00	0.00	
18,700.0	90.01	359.58	9,596.5	8,619.8	129.6	8,618.6	0.00	0.00	0.00	
18,800.0	90.01	359.58	9,596.5	8,719.8	128.9	8,718.6	0.00	0.00	0.00	
18,900.0	90.01	359.58	9,596.4	8,819.8	128.2	8,818.6	0.00	0.00	0.00	
19,000.0	90.01	359.58	9,596.4	8,919.8	127.4	8,918.6	0.00	0.00	0.00	
19,100.0	90.01	359.58	9,596.4	9,019.8	126.7	9,018.6	0.00	0.00	0.00	
19,200.0	90.01	359.58	9,596.4	9,119.8	126.0	9,118.6	0.00	0.00	0.00	
19,300.0	90.01	359.58	9,596.4	9,219.8	125.2	9,218.6	0.00	0.00	0.00	
19,400.0	90.01	359.58	9,596.4	9,319.8	124.5	9,318.6	0.00	0.00	0.00	
19,500.0	90.01	359.58	9,596.4	9,419.7	123.8	9,418.6	0.00	0.00	0.00	
19,600.0	90.01	359.58	9,596.3	9,519.7	123.0	9,518.6	0.00	0.00	0.00	
19,700.0	90.01	359.58	9,596.3	9,619.7	122.3	9,618.6	0.00	0.00	0.00	
19,800.0	90.01	359.58	9,596.3	9,719.7	121.6	9,718.6	0.00	0.00	0.00	
19,880.3	90.01	359.58	9,596.3	9,800.0	121.0	9,798.8	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL (Poseidon State - plan hits target center - Rectangle (sides W100.0 H10,422.0 D20.0)	-0.01	359.58	9,596.3	9,800.0	121.0	456,895.00	774,607.00	32° 15' 13.774 N	103° 34' 43.483 W	
LTP (Poseidon State - plan misses target center by 10.3usft at 19800.0usft MD (9596.3 TVD, 9719.7 N, 121.6 E) - Point	0.00	0.00	9,596.3	9,730.0	122.0	456,825.00	774,608.00	32° 15' 13.081 N	103° 34' 43.477 W	
FTP (Poseidon State - plan misses target center by 202.9usft at 9550.1usft MD (9445.6 TVD, -489.1 N, 196.7 E) - Point	0.00	0.00	9,598.0	-623.0	198.0	446,472.00	774,684.00	32° 13' 30.631 N	103° 34' 43.439 W	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Poseidon State Com #172H
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 #172H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,243.0	1,243.0	Rustler Anhydrite				
1,765.0	1,765.0	Top Salt				
4,938.3	4,907.0	Base Salt				
5,189.4	5,155.0	Delaware Mountain Gp				
5,196.4	5,162.0	Lamar				
5,216.7	5,182.0	Bell Canyon				
5,236.9	5,202.0	Ramsey Sand				
6,183.6	6,137.0	Cherry Canyon				
7,714.7	7,662.0	Brushy Canyon				
9,137.9	9,085.0	Bone Spring Lime				
9,271.4	9,215.0	Upper Avalon				
9,579.4	9,465.0	Middle Avalon				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 1.50	
2,600.1	2,597.6	-45.1	13.3	HOLD - 3882.6 at 2600.1 MD	
6,482.7	6,432.4	-627.9	184.7	DROP - -1.50	
7,082.7	7,030.0	-673.0	198.0	HOLD - 1995.0 at 7082.7 MD	
9,077.7	9,025.0	-673.0	198.0	KOP - Build 10.00	
9,977.8	9,598.0	-100.0	193.8	EOC - 4201.4 hold at 9977.8 MD	
14,179.2	9,597.2	4,101.3	163.0	Start DLS 2.00 TFO -90.00	
14,408.2	9,597.2	4,330.0	152.2	Start 200.0 hold at 14408.2 MD	
14,608.2	9,597.1	4,529.2	134.7	Start Turn 2.00	
14,858.5	9,597.1	4,779.2	123.8	Start 100.0 hold at 14858.5 MD	
14,958.5	9,597.1	4,879.2	123.9	Start Turn 2.00	
15,158.2	9,597.1	5,078.7	130.8	Start 210.0 hold at 15158.2 MD	
15,368.2	9,597.0	5,288.2	145.5	Start DLS 2.00 TFO -90.01	
15,589.2	9,597.0	5,509.0	152.4	Start 4291.1 hold at 15589.2 MD	
19,880.3	9,596.3	9,800.0	121.0	TD at 19880.3	

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 20293

CONDITIONS OF APPROVAL

Operator: TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	523 Park Point Drive	OGRID: 372043	Action Number: 20293	Action Type: C-103A
OCD Reviewer pkautz		Condition None		