

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. 30-025-47462
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 171H
9. OGRID Number 372043
10. Pool name or Wildcat Triple X; Bone Spring West
4. Well Location Unit Letter <u>M</u> : <u>322</u> feet from the <u>South</u> line and <u>1165</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.) 3609 GR

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 ☒
 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 171H. Due to this change the directional drilling plan has changed and is attached for detail.

Previously approved SHL: 322 FSL, 1165 FWL of Section 9, T24S, R33E

New proposed SHL: 347 FSL, 1190 FWL of Section 9, T24S, R33E

Previous approved BHL: 30 FNL, 660 FWL of Section 4, T24S, R33E

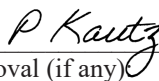
New proposed BHL: 30 FNL, 960 FWL of Section 4, T24S, R33E

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

SIGNATURE  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 03/19/2021
 Conditions of Approval (if any)

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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 30-025-47462	² Pool Code 96674	³ Pool Name TRIPLE X;BONE SPRING, WEST
⁴ Property Code 325667	⁵ Property Name POSEIDON STATE COM	⁶ Well Number 171H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3610'

¹⁰Surface Location

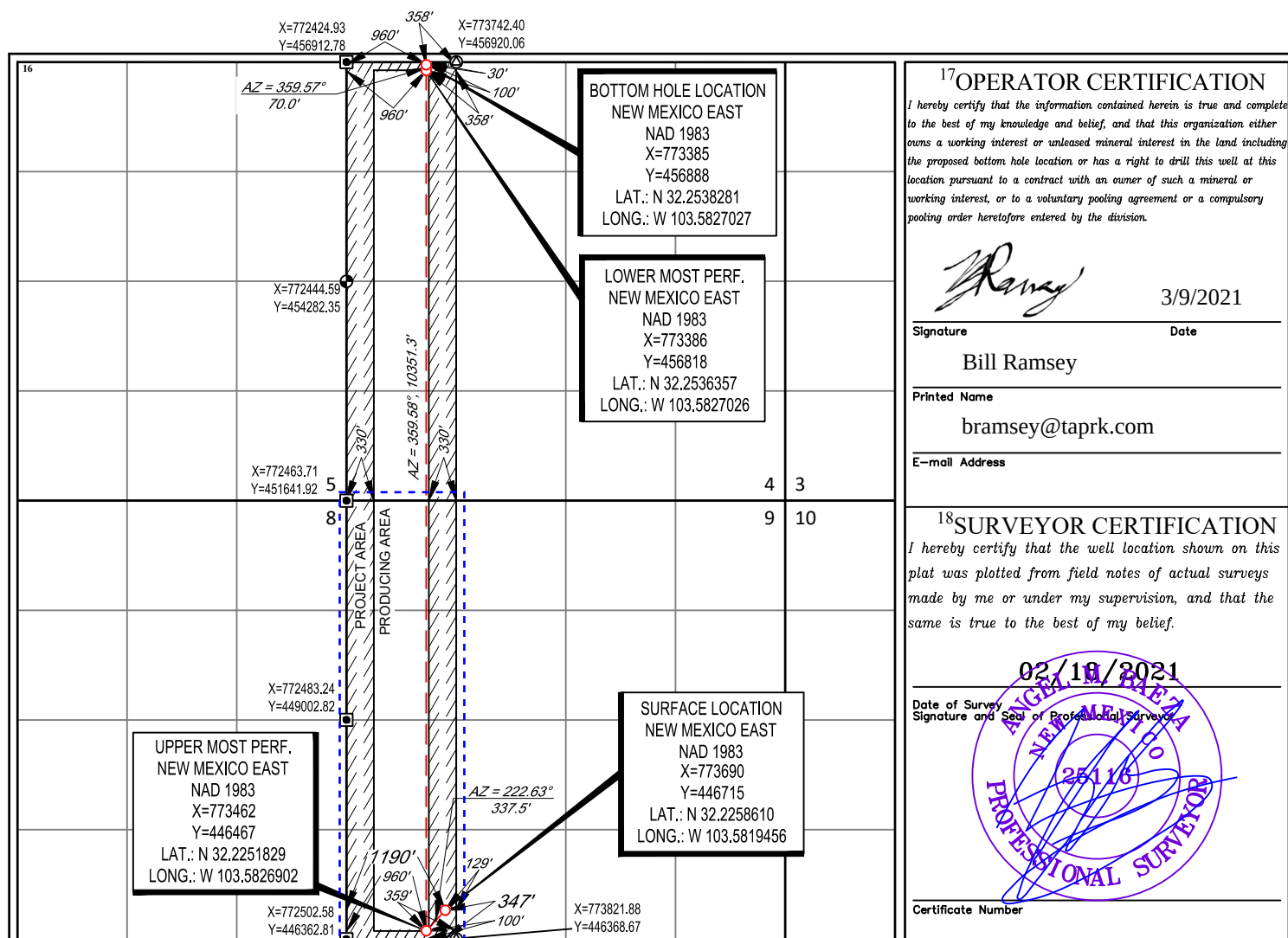
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	24-S	33-E	-	347'	SOUTH	1190'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

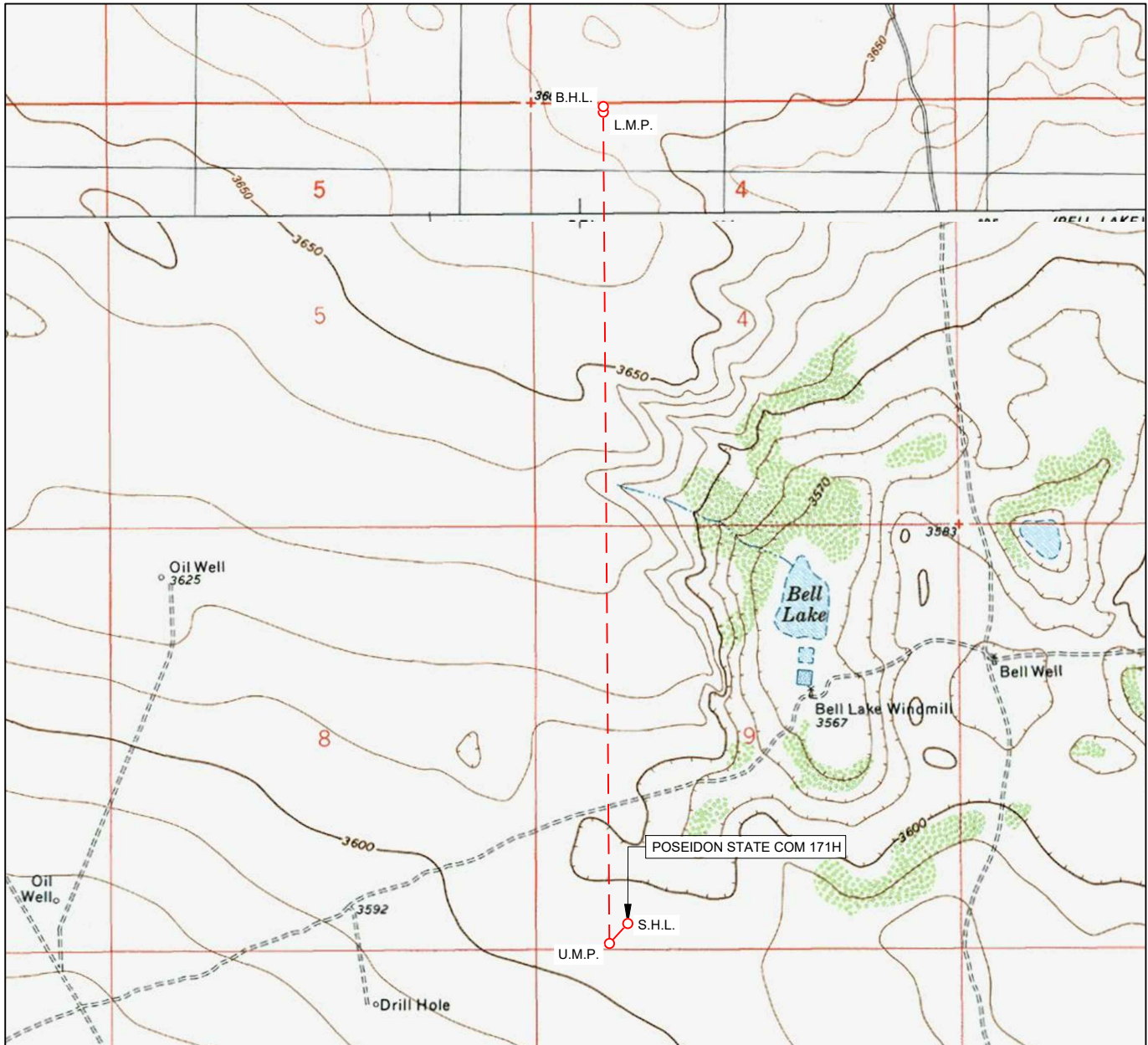
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	4	24-S	33-E	-	30'	NORTH	960'	WEST	LEA

¹² Dedicated Acres 160	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.



LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: POSEIDON STATE COM 171H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3610'
 DESCRIPTION 347' FSL & 1190' FWL

LATITUDE N 32.2258610 LONGITUDE W 103.5819456



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

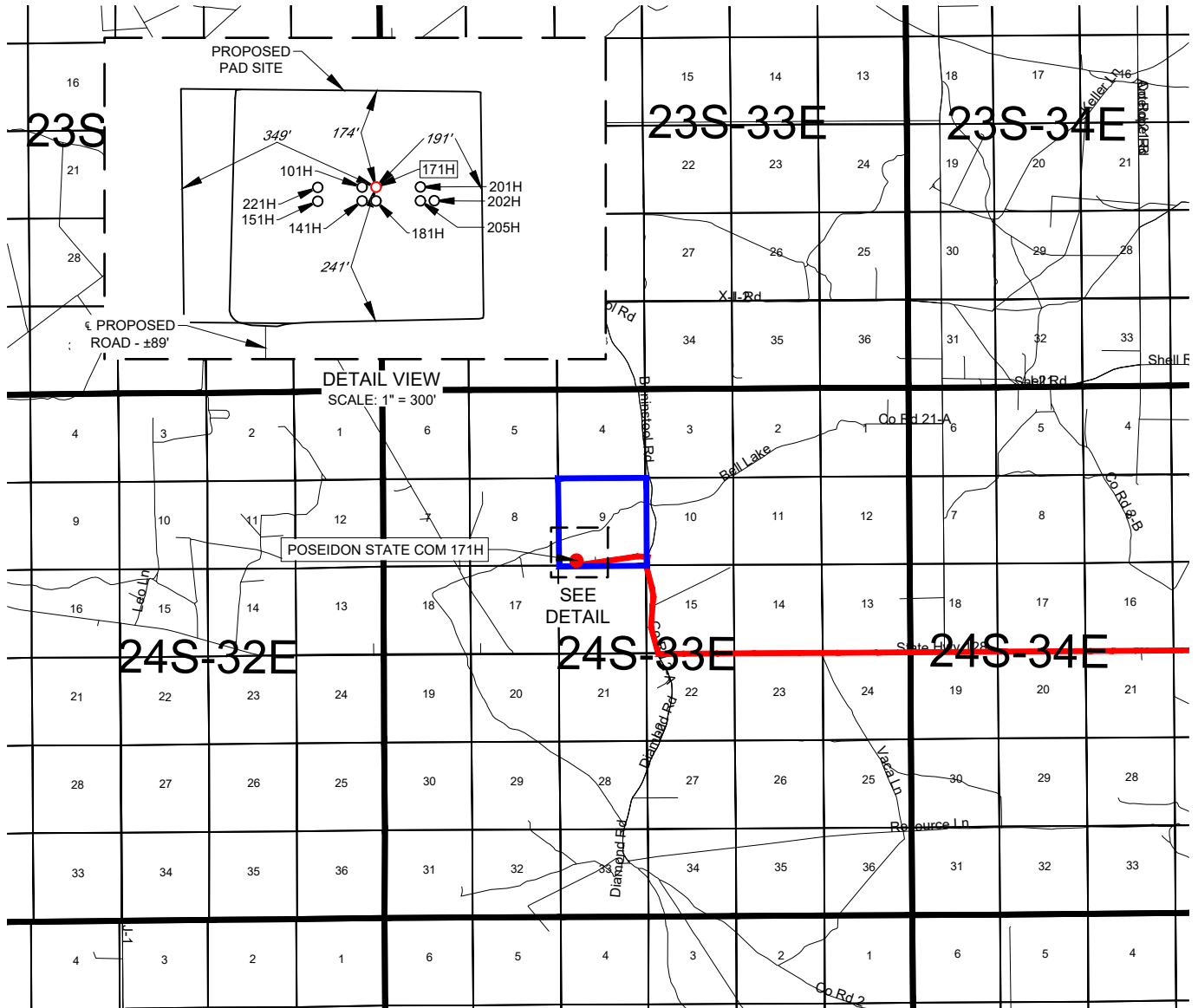
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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



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 171H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM
 DESCRIPTION 347' FSL & 1190' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-128 W & NM-18S, GO WEST ON NM-128 W ±23.9
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 THENCE WEST (LEFT) ON LEASE RD. ±0.9 MILE, THENCE NORTH
 (RIGHT) ON PROPOSED RD. ±89 FEET, TO A POINT ±320 FEET
 SOUTHWEST OF THE LOCATION.



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



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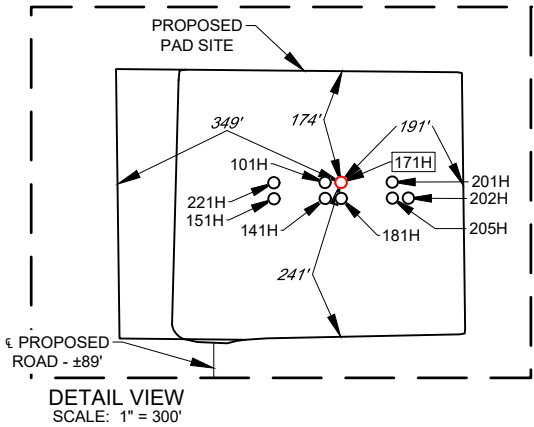
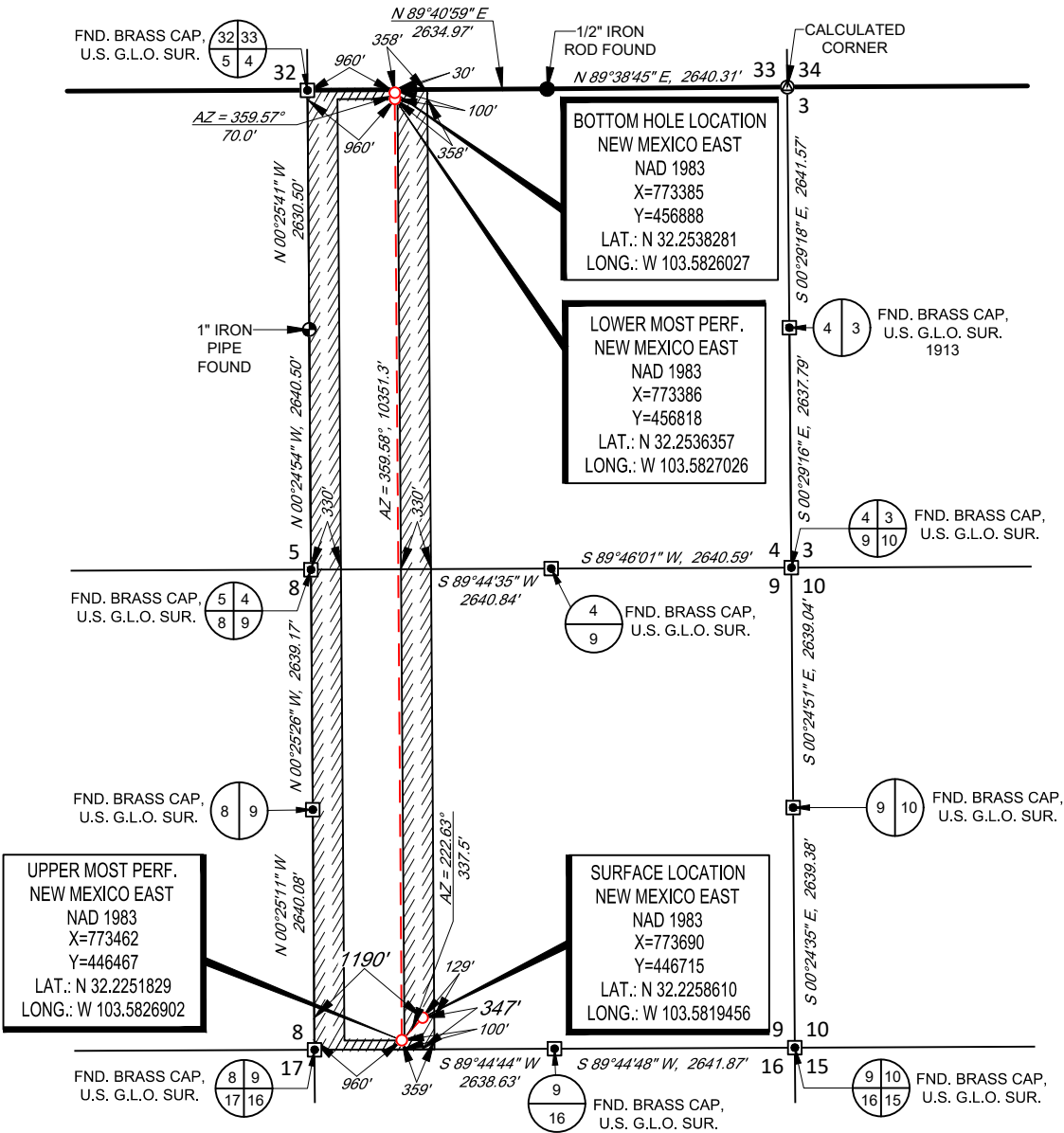
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TAP
ROCK
EXHIBIT 2A

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



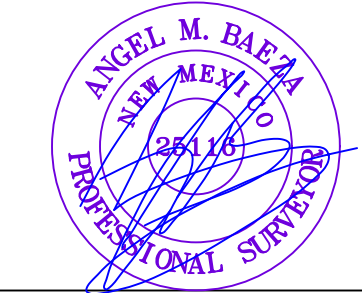
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Ramon A. Dominguez, P.S. No. 24508
February 26, 2021



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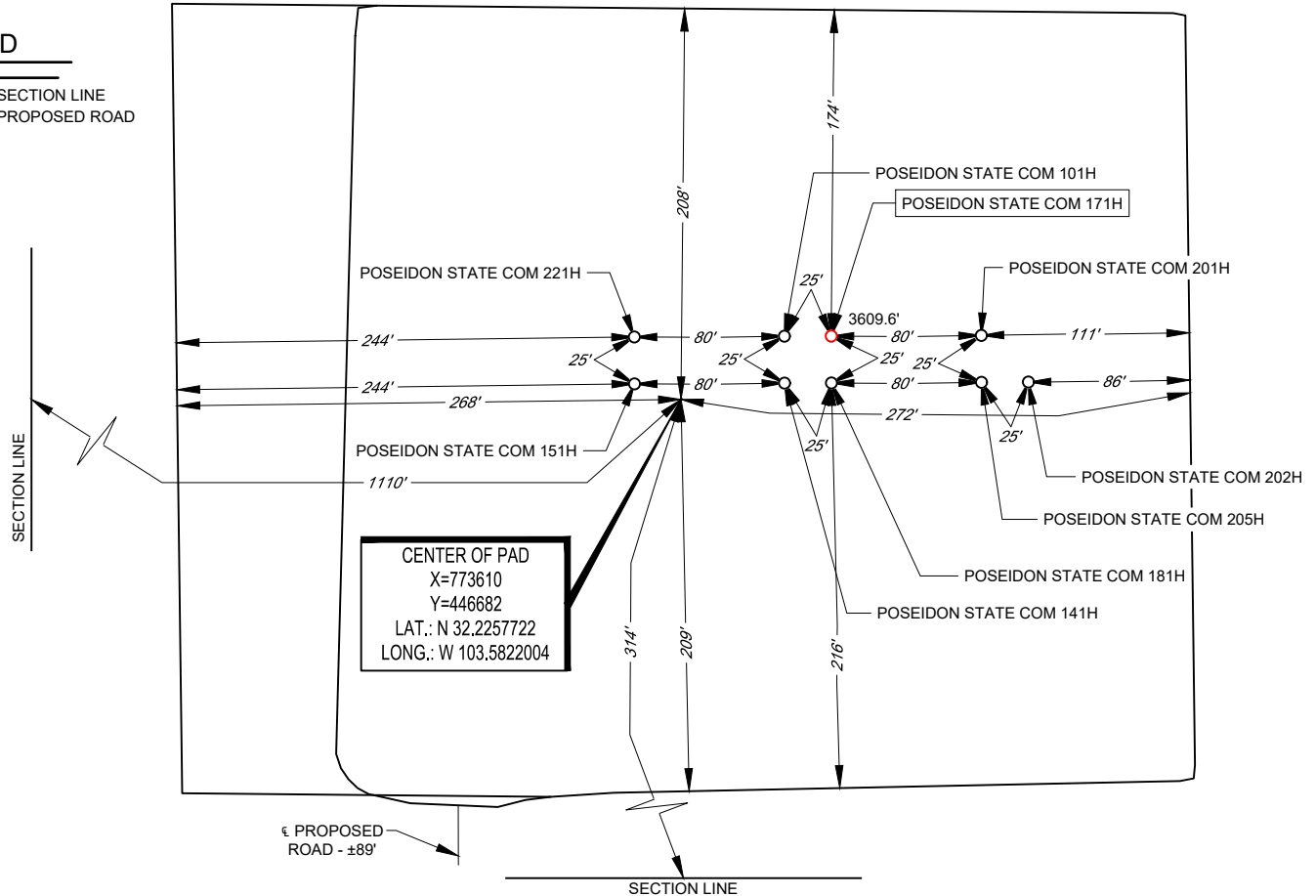
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DETAIL VIEW
SCALE: 1" = 100'

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

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: POSEIDON STATE COM 171H
171H LATITUDE N 32.2258610 171H LONGITUDE W 103.5819456

CENTER OF PAD IS 314' FSL & 1110' FWL



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ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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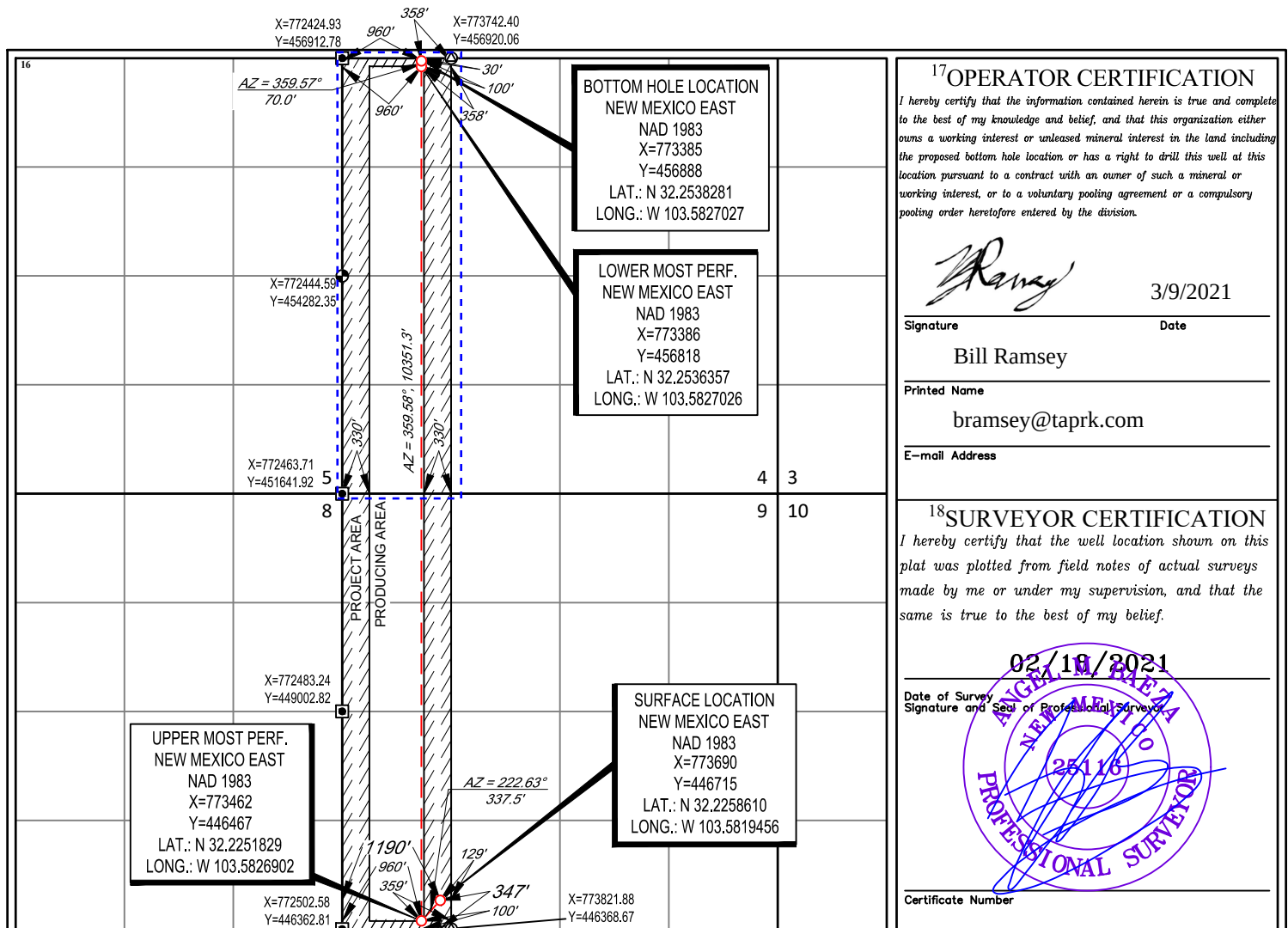
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	24-S	33-E	-	347'	SOUTH	1190'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

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4	4	24-S	33-E	-	30'	NORTH	960'	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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

3/9/2021

Signature Date

Bill Ramsey

Printed Name

bramsey@taprk.com

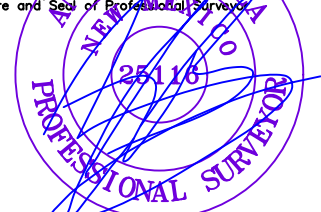
E-mail Address

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.

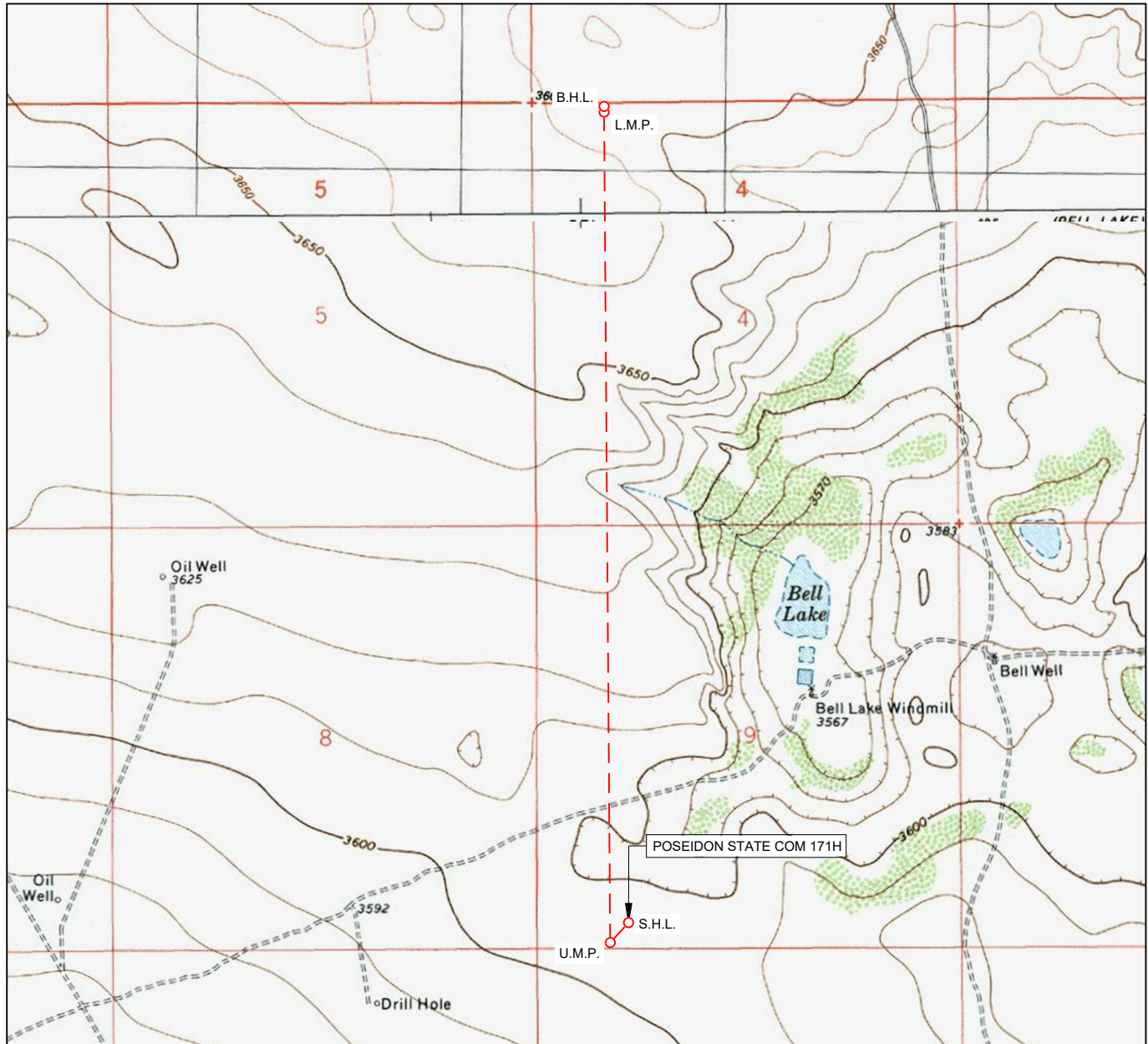
02/18/2021

Date of Survey Signature and Seal of Professional Surveyor



Certificate Number

LOCATION & ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: POSEIDON STATE COM 171H

SECTION 9 TWP 24-S RGE 33-E SURVEY N.M.P.M.
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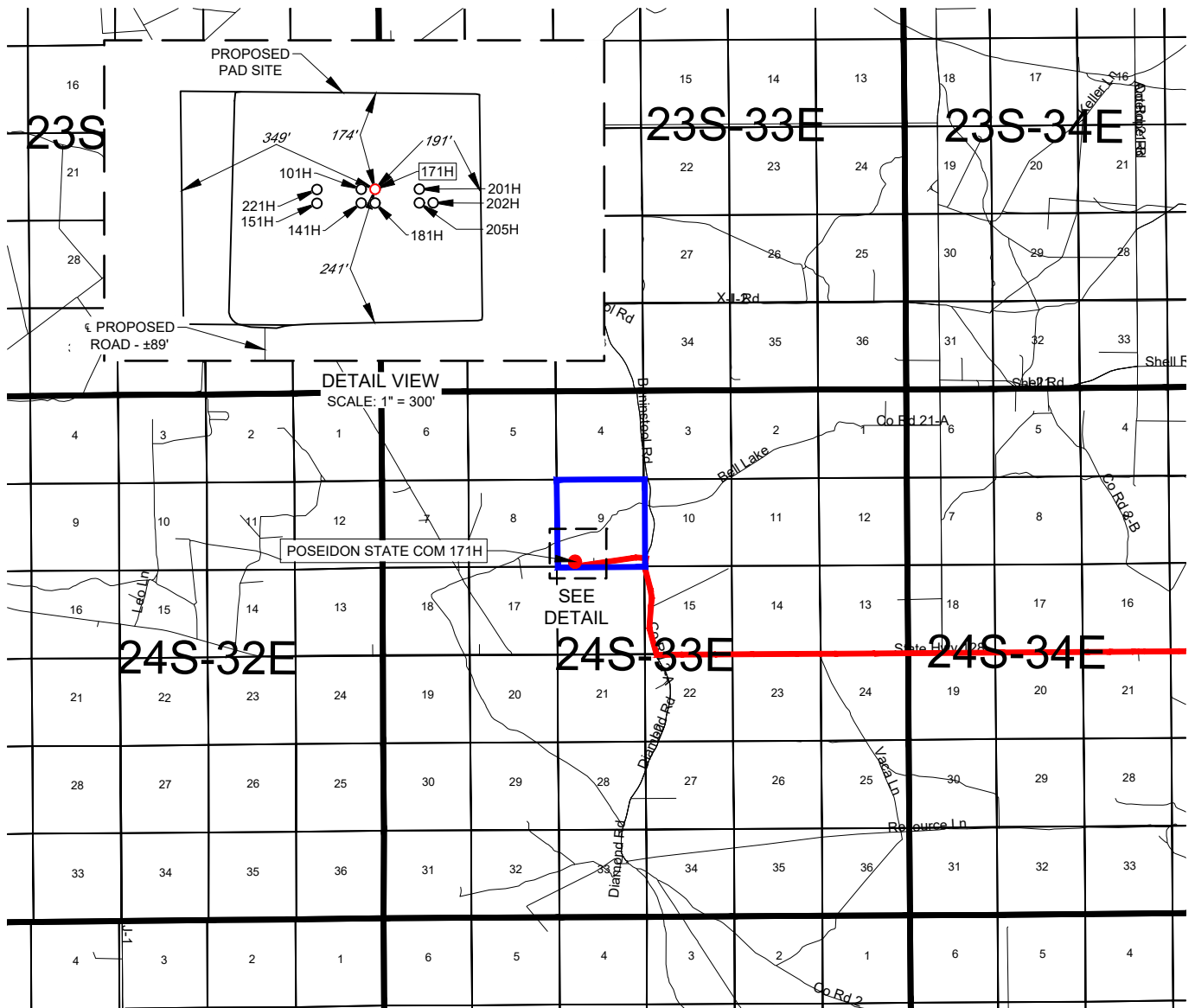
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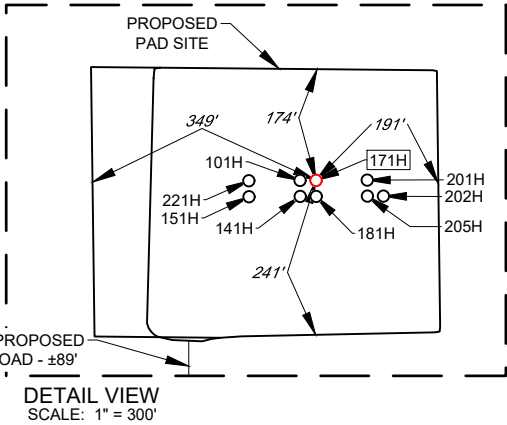
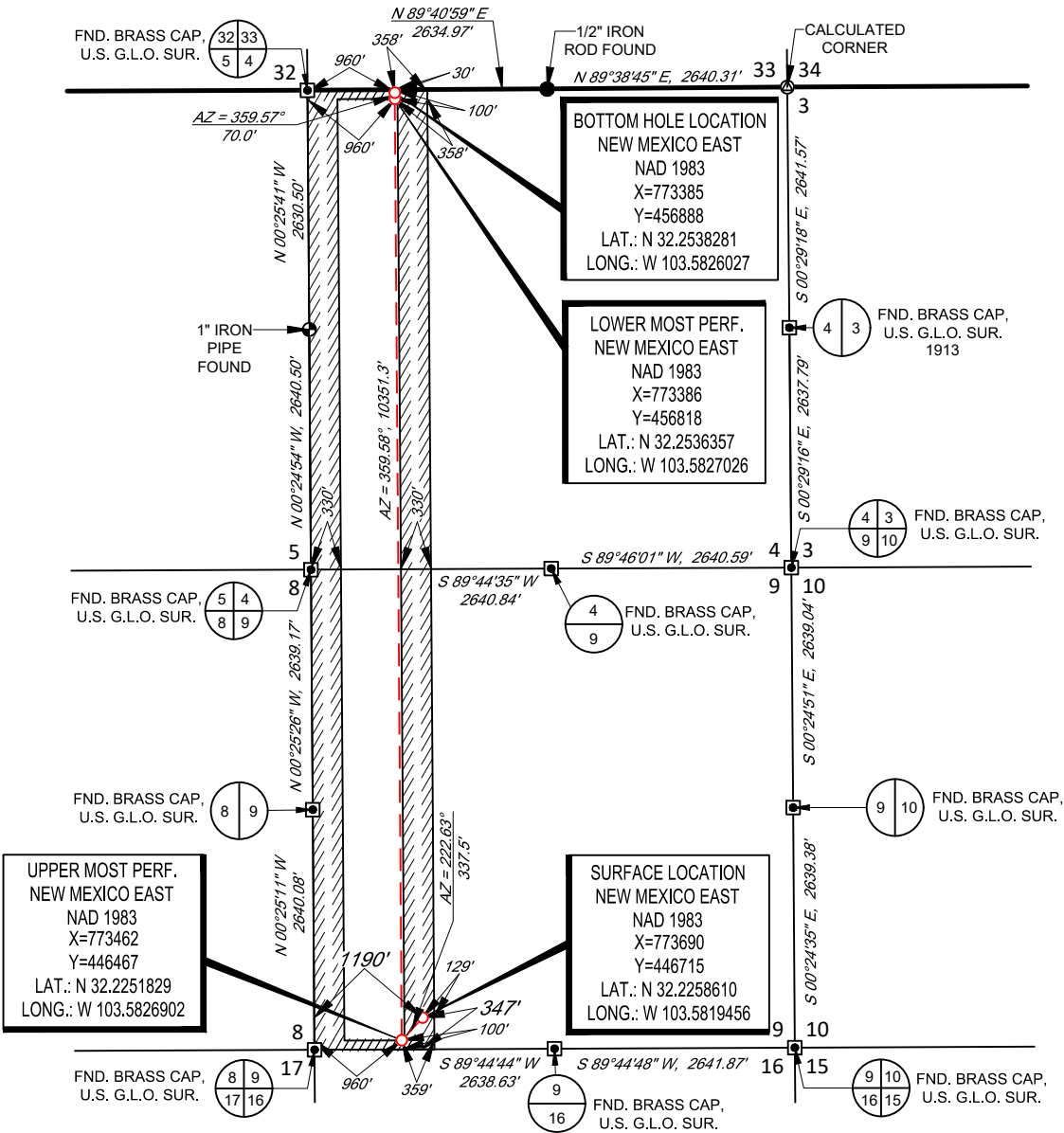
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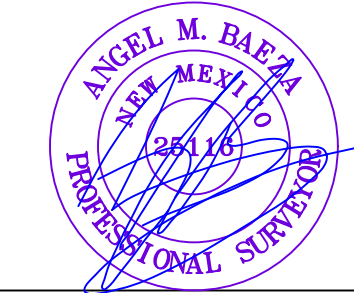
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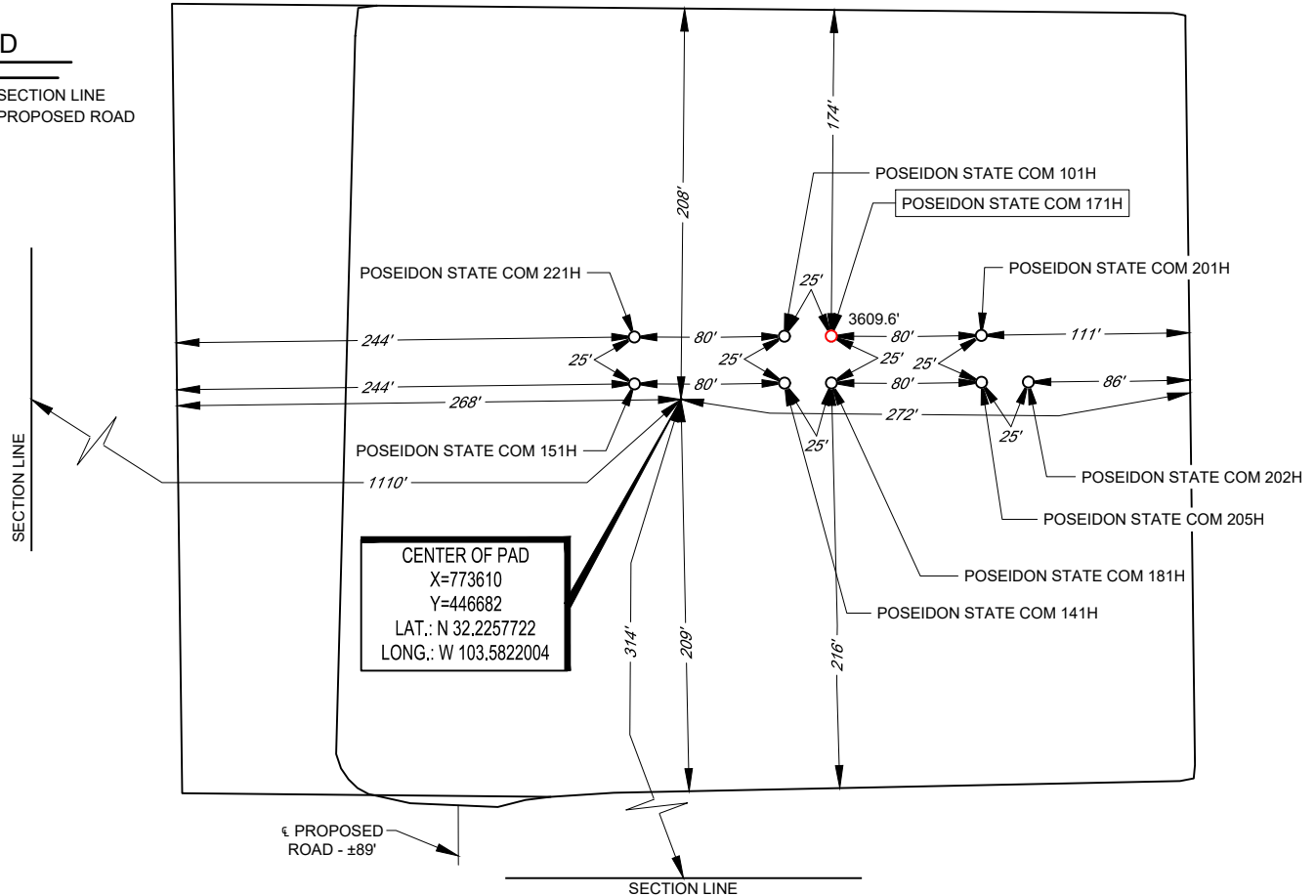
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0' 50' 100'

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PROPOSED ROAD



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Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Poseidon) Sec-9_T-24-E_R-33-E
Poseidon State Com #171H**

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 #171H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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
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 #171H		
Well Position	+N/-S	-30.0 usft	Northing:
	+E/-W	25.0 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	09/27/19	6.71	60.03	47,702.39691805

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	9,115.0 Plan #1 (OWB)	MWD	
			OWSG MWD - Standard	
2	9,115.0	19,858.9 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 #171H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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	
2,399.9	6.00	221.46	2,399.1	-15.7	-13.8	1.50	1.50	0.00	221.46	
5,830.4	6.00	221.46	5,810.9	-284.3	-251.2	0.00	0.00	0.00	0.00	
6,230.2	0.00	0.00	6,210.0	-300.0	-265.0	1.50	-1.50	0.00	180.00	
9,056.2	0.00	0.00	9,036.0	-300.0	-265.0	0.00	0.00	0.00	0.00	
9,956.3	90.01	2.80	9,609.0	272.4	-237.0	10.00	10.00	0.00	2.80	
10,117.3	90.01	359.58	9,608.9	433.3	-233.7	2.00	0.00	-2.00	-90.00	
14,282.3	90.01	359.58	9,608.2	4,598.2	-264.2	0.00	0.00	0.00	0.00	
14,511.3	90.01	355.00	9,608.2	4,826.9	-275.0	2.00	0.00	-2.00	-90.00	
14,711.3	90.01	355.00	9,608.1	5,026.1	-292.4	0.00	0.00	0.00	0.00	
15,011.3	90.01	1.00	9,608.1	5,325.8	-302.9	2.00	0.00	2.00	90.00	
15,161.3	90.01	4.00	9,608.0	5,475.6	-296.4	2.00	0.00	2.00	90.00	
15,381.3	90.01	4.00	9,608.0	5,695.1	-281.0	0.00	0.00	0.00	0.00	
15,602.1	90.01	359.58	9,608.0	5,915.7	-274.1	2.00	0.00	-2.00	-90.00	
19,859.5	90.01	359.58	9,607.2	10,173.0	-305.0	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 @ 3636.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3636.0usft
Site:	(Poseidon) Sec-9_T-24-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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
1,259.0	0.00	0.00	1,259.0	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
1,781.0	0.00	0.00	1,781.0	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	221.46	2,100.0	-1.0	-0.9	-1.0	1.50	1.50	0.00
2,200.0	3.00	221.46	2,199.9	-3.9	-3.5	-3.9	1.50	1.50	0.00
2,300.0	4.50	221.46	2,299.7	-8.8	-7.8	-8.8	1.50	1.50	0.00
2,399.9	6.00	221.46	2,399.1	-15.7	-13.8	-15.6	1.50	1.50	0.00
2,500.0	6.00	221.46	2,498.7	-23.5	-20.8	-23.4	0.00	0.00	0.00
2,600.0	6.00	221.46	2,598.2	-31.3	-27.7	-31.1	0.00	0.00	0.00
2,700.0	6.00	221.46	2,697.6	-39.2	-34.6	-38.9	0.00	0.00	0.00
2,800.0	6.00	221.46	2,797.1	-47.0	-41.5	-46.7	0.00	0.00	0.00
2,900.0	6.00	221.46	2,896.5	-54.8	-48.4	-54.5	0.00	0.00	0.00
3,000.0	6.00	221.46	2,996.0	-62.7	-55.4	-62.3	0.00	0.00	0.00
3,100.0	6.00	221.46	3,095.4	-70.5	-62.3	-70.0	0.00	0.00	0.00
3,200.0	6.00	221.46	3,194.9	-78.3	-69.2	-77.8	0.00	0.00	0.00
3,300.0	6.00	221.46	3,294.3	-86.2	-76.1	-85.6	0.00	0.00	0.00
3,400.0	6.00	221.46	3,393.8	-94.0	-83.0	-93.4	0.00	0.00	0.00
3,500.0	6.00	221.46	3,493.2	-101.8	-89.9	-101.2	0.00	0.00	0.00
3,600.0	6.00	221.46	3,592.7	-109.7	-96.9	-108.9	0.00	0.00	0.00
3,700.0	6.00	221.46	3,692.2	-117.5	-103.8	-116.7	0.00	0.00	0.00
3,800.0	6.00	221.46	3,791.6	-125.3	-110.7	-124.5	0.00	0.00	0.00
3,900.0	6.00	221.46	3,891.1	-133.2	-117.6	-132.3	0.00	0.00	0.00
4,000.0	6.00	221.46	3,990.5	-141.0	-124.5	-140.1	0.00	0.00	0.00
4,100.0	6.00	221.46	4,090.0	-148.8	-131.5	-147.8	0.00	0.00	0.00
4,200.0	6.00	221.46	4,189.4	-156.6	-138.4	-155.6	0.00	0.00	0.00
4,300.0	6.00	221.46	4,288.9	-164.5	-145.3	-163.4	0.00	0.00	0.00
4,400.0	6.00	221.46	4,388.3	-172.3	-152.2	-171.2	0.00	0.00	0.00
4,500.0	6.00	221.46	4,487.8	-180.1	-159.1	-179.0	0.00	0.00	0.00
4,600.0	6.00	221.46	4,587.2	-188.0	-166.0	-186.8	0.00	0.00	0.00
4,700.0	6.00	221.46	4,686.7	-195.8	-173.0	-194.5	0.00	0.00	0.00
4,800.0	6.00	221.46	4,786.1	-203.6	-179.9	-202.3	0.00	0.00	0.00
4,900.0	6.00	221.46	4,885.6	-211.5	-186.8	-210.1	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-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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)
4,937.6	6.00	221.46	4,923.0	-214.4	-189.4	-213.0	0.00	0.00	0.00
Base Salt									
5,000.0	6.00	221.46	4,985.0	-219.3	-193.7	-217.9	0.00	0.00	0.00
5,100.0	6.00	221.46	5,084.5	-227.1	-200.6	-225.7	0.00	0.00	0.00
5,187.0	6.00	221.46	5,171.0	-233.9	-206.6	-232.4	0.00	0.00	0.00
Delaware Mountain Gp									
5,194.0	6.00	221.46	5,178.0	-234.5	-207.1	-233.0	0.00	0.00	0.00
Lamar									
5,200.0	6.00	221.46	5,183.9	-235.0	-207.5	-233.4	0.00	0.00	0.00
5,214.1	6.00	221.46	5,198.0	-236.1	-208.5	-234.5	0.00	0.00	0.00
Bell Canyon									
5,234.2	6.00	221.46	5,218.0	-237.6	-209.9	-236.1	0.00	0.00	0.00
Ramsey Sand									
5,300.0	6.00	221.46	5,283.4	-242.8	-214.5	-241.2	0.00	0.00	0.00
5,400.0	6.00	221.46	5,382.8	-250.6	-221.4	-249.0	0.00	0.00	0.00
5,500.0	6.00	221.46	5,482.3	-258.5	-228.3	-256.8	0.00	0.00	0.00
5,600.0	6.00	221.46	5,581.8	-266.3	-235.2	-264.6	0.00	0.00	0.00
5,700.0	6.00	221.46	5,681.2	-274.1	-242.1	-272.3	0.00	0.00	0.00
5,800.0	6.00	221.46	5,780.7	-281.9	-249.1	-280.1	0.00	0.00	0.00
5,830.4	6.00	221.46	5,810.9	-284.3	-251.2	-282.5	0.00	0.00	0.00
5,900.0	4.95	221.46	5,880.2	-289.3	-255.6	-287.4	1.50	-1.50	0.00
6,000.0	3.45	221.46	5,979.9	-294.8	-260.4	-292.9	1.50	-1.50	0.00
6,100.0	1.95	221.46	6,079.8	-298.3	-263.5	-296.4	1.50	-1.50	0.00
6,173.2	0.86	221.46	6,153.0	-299.7	-264.7	-297.7	1.50	-1.50	0.00
Cherry Canyon									
6,200.0	0.45	221.46	6,179.8	-299.9	-264.9	-298.0	1.50	-1.50	0.00
6,230.2	0.00	0.00	6,210.0	-300.0	-265.0	-298.0	1.50	-1.50	0.00
6,300.0	0.00	0.00	6,279.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,379.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,479.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,579.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,679.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,779.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,879.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,979.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,079.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,179.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,279.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,379.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,479.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,579.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,698.2	0.00	0.00	7,678.0	-300.0	-265.0	-298.0	0.00	0.00	0.00
Brushy Canyon									
7,700.0	0.00	0.00	7,679.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,779.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,879.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,979.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,079.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,179.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,279.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,379.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,479.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,579.8	-300.0	-265.0	-298.0	0.00	0.00	0.00



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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	8,679.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,779.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,879.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,979.8	-300.0	-265.0	-298.0	0.00	0.00	0.00
9,056.2	0.00	0.00	9,036.0	-300.0	-265.0	-298.0	0.00	0.00	0.00
9,100.0	4.38	2.80	9,079.7	-298.3	-264.9	-296.4	10.00	10.00	0.00
9,121.4	6.51	2.80	9,101.0	-296.3	-264.8	-294.4	10.00	10.00	0.00
Bone Spring Lime									
9,150.0	9.38	2.80	9,129.3	-292.4	-264.6	-290.4	10.00	10.00	0.00
9,200.0	14.38	2.80	9,178.3	-282.1	-264.1	-280.1	10.00	10.00	0.00
9,250.0	19.38	2.80	9,226.1	-267.6	-263.4	-265.6	10.00	10.00	0.00
9,255.2	19.90	2.80	9,231.0	-265.8	-263.3	-263.9	10.00	10.00	0.00
Upper Avalon									
9,300.0	24.38	2.80	9,272.5	-249.0	-262.5	-247.1	10.00	10.00	0.00
9,350.0	29.38	2.80	9,317.1	-226.4	-261.4	-224.5	10.00	10.00	0.00
9,400.0	34.38	2.80	9,359.5	-200.1	-260.1	-198.1	10.00	10.00	0.00
9,450.0	39.38	2.80	9,399.5	-170.1	-258.6	-168.2	10.00	10.00	0.00
9,500.0	44.38	2.80	9,436.7	-136.8	-257.0	-134.9	10.00	10.00	0.00
9,550.0	49.38	2.80	9,470.9	-100.3	-255.2	-98.5	10.00	10.00	0.00
9,565.8	50.96	2.80	9,481.0	-88.2	-254.6	-86.3	10.00	10.00	0.00
Middle Avalon									
9,600.0	54.38	2.80	9,501.7	-61.1	-253.3	-59.2	10.00	10.00	0.00
9,650.0	59.38	2.80	9,529.0	-19.2	-251.3	-17.4	10.00	10.00	0.00
9,700.0	64.38	2.80	9,552.6	24.8	-249.1	26.6	10.00	10.00	0.00
9,750.0	69.38	2.80	9,572.2	70.7	-246.9	72.5	10.00	10.00	0.00
9,800.0	74.38	2.80	9,587.8	118.1	-244.5	119.9	10.00	10.00	0.00
9,850.0	79.38	2.80	9,599.1	166.8	-242.2	168.5	10.00	10.00	0.00
9,900.0	84.38	2.80	9,606.2	216.2	-239.8	217.9	10.00	10.00	0.00
9,950.0	89.38	2.80	9,608.9	266.0	-237.3	267.8	10.00	10.00	0.00
9,956.3	90.01	2.80	9,609.0	272.4	-237.0	274.1	10.00	10.00	0.00
10,000.0	90.01	1.93	9,609.0	316.0	-235.2	317.7	2.00	0.00	-2.00
10,100.0	90.01	359.93	9,608.9	416.0	-233.6	417.7	2.00	0.00	-2.00
10,117.3	90.01	359.58	9,608.9	433.3	-233.7	435.0	2.00	0.00	-2.00
10,200.0	90.01	359.58	9,608.9	516.0	-234.3	517.7	0.00	0.00	0.00
10,300.0	90.01	359.58	9,608.9	616.0	-235.0	617.7	0.00	0.00	0.00
10,400.0	90.01	359.58	9,608.9	716.0	-235.7	717.7	0.00	0.00	0.00
10,500.0	90.01	359.58	9,608.9	816.0	-236.5	817.7	0.00	0.00	0.00
10,600.0	90.01	359.58	9,608.8	916.0	-237.2	917.7	0.00	0.00	0.00
10,700.0	90.01	359.58	9,608.8	1,016.0	-237.9	1,017.7	0.00	0.00	0.00
10,800.0	90.01	359.58	9,608.8	1,116.0	-238.7	1,117.7	0.00	0.00	0.00
10,900.0	90.01	359.58	9,608.8	1,216.0	-239.4	1,217.7	0.00	0.00	0.00
11,000.0	90.01	359.58	9,608.8	1,316.0	-240.1	1,317.7	0.00	0.00	0.00
11,100.0	90.01	359.58	9,608.8	1,416.0	-240.9	1,417.7	0.00	0.00	0.00
11,200.0	90.01	359.58	9,608.7	1,515.9	-241.6	1,517.7	0.00	0.00	0.00
11,300.0	90.01	359.58	9,608.7	1,615.9	-242.3	1,617.7	0.00	0.00	0.00
11,400.0	90.01	359.58	9,608.7	1,715.9	-243.1	1,717.7	0.00	0.00	0.00
11,500.0	90.01	359.58	9,608.7	1,815.9	-243.8	1,817.7	0.00	0.00	0.00
11,600.0	90.01	359.58	9,608.7	1,915.9	-244.5	1,917.7	0.00	0.00	0.00
11,700.0	90.01	359.58	9,608.7	2,015.9	-245.3	2,017.7	0.00	0.00	0.00
11,800.0	90.01	359.58	9,608.6	2,115.9	-246.0	2,117.7	0.00	0.00	0.00
11,900.0	90.01	359.58	9,608.6	2,215.9	-246.7	2,217.7	0.00	0.00	0.00
12,000.0	90.01	359.58	9,608.6	2,315.9	-247.5	2,317.7	0.00	0.00	0.00
12,100.0	90.01	359.58	9,608.6	2,415.9	-248.2	2,417.7	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-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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)
12,200.0	90.01	359.58	9,608.6	2,515.9	-248.9	2,517.7	0.00	0.00	0.00
12,300.0	90.01	359.58	9,608.5	2,615.9	-249.7	2,617.7	0.00	0.00	0.00
12,400.0	90.01	359.58	9,608.5	2,715.9	-250.4	2,717.7	0.00	0.00	0.00
12,500.0	90.01	359.58	9,608.5	2,815.9	-251.1	2,817.7	0.00	0.00	0.00
12,600.0	90.01	359.58	9,608.5	2,915.9	-251.9	2,917.7	0.00	0.00	0.00
12,700.0	90.01	359.58	9,608.5	3,015.9	-252.6	3,017.7	0.00	0.00	0.00
12,800.0	90.01	359.58	9,608.5	3,115.9	-253.3	3,117.7	0.00	0.00	0.00
12,900.0	90.01	359.58	9,608.4	3,215.9	-254.1	3,217.7	0.00	0.00	0.00
13,000.0	90.01	359.58	9,608.4	3,315.9	-254.8	3,317.7	0.00	0.00	0.00
13,100.0	90.01	359.58	9,608.4	3,415.9	-255.5	3,417.7	0.00	0.00	0.00
13,200.0	90.01	359.58	9,608.4	3,515.9	-256.3	3,517.7	0.00	0.00	0.00
13,300.0	90.01	359.58	9,608.4	3,615.9	-257.0	3,617.7	0.00	0.00	0.00
13,400.0	90.01	359.58	9,608.4	3,715.9	-257.7	3,717.7	0.00	0.00	0.00
13,500.0	90.01	359.58	9,608.3	3,815.9	-258.5	3,817.7	0.00	0.00	0.00
13,600.0	90.01	359.58	9,608.3	3,915.9	-259.2	3,917.7	0.00	0.00	0.00
13,700.0	90.01	359.58	9,608.3	4,015.9	-259.9	4,017.7	0.00	0.00	0.00
13,800.0	90.01	359.58	9,608.3	4,115.9	-260.7	4,117.7	0.00	0.00	0.00
13,900.0	90.01	359.58	9,608.3	4,215.9	-261.4	4,217.7	0.00	0.00	0.00
14,000.0	90.01	359.58	9,608.3	4,315.9	-262.1	4,317.7	0.00	0.00	0.00
14,100.0	90.01	359.58	9,608.2	4,415.9	-262.9	4,417.7	0.00	0.00	0.00
14,200.0	90.01	359.58	9,608.2	4,515.9	-263.6	4,517.7	0.00	0.00	0.00
14,282.3	90.01	359.58	9,608.2	4,598.2	-264.2	4,600.0	0.00	0.00	0.00
14,300.0	90.01	359.23	9,608.2	4,615.9	-264.4	4,617.7	2.00	0.00	-2.00
14,400.0	90.01	357.23	9,608.2	4,715.8	-267.5	4,717.6	2.00	0.00	-2.00
14,500.0	90.01	355.23	9,608.2	4,815.6	-274.1	4,817.5	2.00	0.00	-2.00
14,511.3	90.01	355.00	9,608.2	4,826.9	-275.0	4,828.8	2.00	0.00	-2.00
14,600.0	90.01	355.00	9,608.1	4,915.2	-282.7	4,917.2	0.00	0.00	0.00
14,700.0	90.01	355.00	9,608.1	5,014.8	-291.5	5,016.8	0.00	0.00	0.00
14,711.3	90.01	355.00	9,608.1	5,026.1	-292.4	5,028.1	0.00	0.00	0.00
14,800.0	90.01	356.77	9,608.1	5,114.6	-298.8	5,116.6	2.00	0.00	2.00
14,900.0	90.01	358.77	9,608.1	5,214.5	-302.7	5,216.6	2.00	0.00	2.00
15,000.0	90.01	0.77	9,608.1	5,314.5	-303.1	5,316.5	2.00	0.00	2.00
15,011.3	90.01	1.00	9,608.1	5,325.8	-302.9	5,327.9	2.00	0.00	2.00
15,100.0	90.01	2.77	9,608.1	5,414.4	-300.0	5,416.5	2.00	0.00	2.00
15,161.3	90.01	4.00	9,608.0	5,475.6	-296.4	5,477.7	2.00	0.00	2.00
15,200.0	90.01	4.00	9,608.0	5,514.2	-293.7	5,516.2	0.00	0.00	0.00
15,300.0	90.01	4.00	9,608.0	5,614.0	-286.7	5,615.9	0.00	0.00	0.00
15,381.3	90.01	4.00	9,608.0	5,695.1	-281.0	5,697.0	0.00	0.00	0.00
15,400.0	90.01	3.63	9,608.0	5,713.7	-279.8	5,715.6	2.00	0.00	-2.00
15,500.0	90.01	1.63	9,608.0	5,813.6	-275.2	5,815.5	2.00	0.00	-2.00
15,602.1	90.01	359.58	9,608.0	5,915.7	-274.1	5,917.6	2.00	0.00	-2.00
15,700.0	90.01	359.58	9,608.0	6,013.6	-274.8	6,015.5	0.00	0.00	0.00
15,800.0	90.01	359.58	9,607.9	6,113.6	-275.6	6,115.5	0.00	0.00	0.00
15,900.0	90.01	359.58	9,607.9	6,213.6	-276.3	6,215.5	0.00	0.00	0.00
16,000.0	90.01	359.58	9,607.9	6,313.6	-277.0	6,315.5	0.00	0.00	0.00
16,100.0	90.01	359.58	9,607.9	6,413.6	-277.7	6,415.5	0.00	0.00	0.00
16,200.0	90.01	359.58	9,607.9	6,513.6	-278.5	6,515.5	0.00	0.00	0.00
16,300.0	90.01	359.58	9,607.8	6,613.6	-279.2	6,615.5	0.00	0.00	0.00
16,400.0	90.01	359.58	9,607.8	6,713.6	-279.9	6,715.5	0.00	0.00	0.00
16,500.0	90.01	359.58	9,607.8	6,813.6	-280.6	6,815.5	0.00	0.00	0.00
16,600.0	90.01	359.58	9,607.8	6,913.6	-281.4	6,915.5	0.00	0.00	0.00
16,700.0	90.01	359.58	9,607.8	7,013.6	-282.1	7,015.5	0.00	0.00	0.00
16,800.0	90.01	359.58	9,607.8	7,113.6	-282.8	7,115.5	0.00	0.00	0.00
16,900.0	90.01	359.58	9,607.7	7,213.6	-283.5	7,215.5	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-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	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)	
17,000.0	90.01	359.58	9,607.7	7,313.6	-284.3	7,315.5	0.00	0.00	0.00	
17,100.0	90.01	359.58	9,607.7	7,413.6	-285.0	7,415.5	0.00	0.00	0.00	
17,200.0	90.01	359.58	9,607.7	7,513.6	-285.7	7,515.5	0.00	0.00	0.00	
17,300.0	90.01	359.58	9,607.7	7,613.6	-286.4	7,615.5	0.00	0.00	0.00	
17,400.0	90.01	359.58	9,607.7	7,713.6	-287.2	7,715.5	0.00	0.00	0.00	
17,500.0	90.01	359.58	9,607.6	7,813.6	-287.9	7,815.5	0.00	0.00	0.00	
17,600.0	90.01	359.58	9,607.6	7,913.6	-288.6	7,915.5	0.00	0.00	0.00	
17,700.0	90.01	359.58	9,607.6	8,013.6	-289.3	8,015.5	0.00	0.00	0.00	
17,800.0	90.01	359.58	9,607.6	8,113.6	-290.1	8,115.5	0.00	0.00	0.00	
17,900.0	90.01	359.58	9,607.6	8,213.5	-290.8	8,215.5	0.00	0.00	0.00	
18,000.0	90.01	359.58	9,607.6	8,313.5	-291.5	8,315.5	0.00	0.00	0.00	
18,100.0	90.01	359.58	9,607.5	8,413.5	-292.2	8,415.5	0.00	0.00	0.00	
18,200.0	90.01	359.58	9,607.5	8,513.5	-293.0	8,515.5	0.00	0.00	0.00	
18,300.0	90.01	359.58	9,607.5	8,613.5	-293.7	8,615.5	0.00	0.00	0.00	
18,400.0	90.01	359.58	9,607.5	8,713.5	-294.4	8,715.5	0.00	0.00	0.00	
18,500.0	90.01	359.58	9,607.5	8,813.5	-295.1	8,815.5	0.00	0.00	0.00	
18,600.0	90.01	359.58	9,607.4	8,913.5	-295.9	8,915.5	0.00	0.00	0.00	
18,700.0	90.01	359.58	9,607.4	9,013.5	-296.6	9,015.5	0.00	0.00	0.00	
18,800.0	90.01	359.58	9,607.4	9,113.5	-297.3	9,115.5	0.00	0.00	0.00	
18,900.0	90.01	359.58	9,607.4	9,213.5	-298.0	9,215.5	0.00	0.00	0.00	
19,000.0	90.01	359.58	9,607.4	9,313.5	-298.8	9,315.5	0.00	0.00	0.00	
19,100.0	90.01	359.58	9,607.4	9,413.5	-299.5	9,415.5	0.00	0.00	0.00	
19,200.0	90.01	359.58	9,607.3	9,513.5	-300.2	9,515.5	0.00	0.00	0.00	
19,300.0	90.01	359.58	9,607.3	9,613.5	-300.9	9,615.5	0.00	0.00	0.00	
19,400.0	90.01	359.58	9,607.3	9,713.5	-301.7	9,715.5	0.00	0.00	0.00	
19,500.0	90.01	359.58	9,607.3	9,813.5	-302.4	9,815.5	0.00	0.00	0.00	
19,600.0	90.01	359.58	9,607.3	9,913.5	-303.1	9,915.5	0.00	0.00	0.00	
19,700.0	90.01	359.58	9,607.3	10,013.5	-303.8	10,015.5	0.00	0.00	0.00	
19,800.0	90.01	359.58	9,607.2	10,113.5	-304.6	10,115.5	0.00	0.00	0.00	
19,859.5	90.01	359.58	9,607.2	10,173.0	-305.0	10,175.0	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	
LTP (Poseidon State Com #171H) - hit/miss target - Shape - Point	0.00	0.00	9,607.2	10,103.0	-304.0	456,818.00	773,386.00	32° 15' 13.097 N	103° 34' 57.707 W	- plan misses target center by 0.5usft at 19789.5usft MD (9607.2 TVD, 10103.0 N, -304.5 E)
PBHL (Poseidon State Com #171H) - plan hits target center - Rectangle (sides W100.0 H10,422.0 D20.0)	-0.01	359.58	9,607.2	10,173.0	-305.0	456,888.00	773,385.00	32° 15' 13.789 N	103° 34' 57.713 W	
FTP (Poseidon State Com #171H) - plan misses target center by 234.5usft at 9553.1usft MD (9472.9 TVD, -97.9 N, -255.1 E) - Point	0.00	0.00	9,651.0	-248.0	-228.0	446,467.00	773,462.00	32° 13' 30.666 N	103° 34' 57.665 W	



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-E_R-33-E	North Reference:	Grid
Well:	Poseidon State Com #171H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,259.0	1,259.0	Rustler Anhydrite				
1,781.0	1,781.0	Top Salt				
4,937.6	4,923.0	Base Salt				
5,187.0	5,171.0	Delaware Mountain Gp				
5,194.0	5,178.0	Lamar				
5,214.1	5,198.0	Bell Canyon				
5,234.2	5,218.0	Ramsey Sand				
6,173.2	6,153.0	Cherry Canyon				
7,698.2	7,678.0	Brushy Canyon				
9,121.4	9,101.0	Bone Spring Lime				
9,255.2	9,231.0	Upper Avalon				
9,565.8	9,481.0	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
2,399.9	2,399.1	-15.7	-13.8	HOLD - 3430.5 at 2399.9 MD
5,830.4	5,810.9	-284.3	-251.2	DROP - -1.50
6,230.2	6,210.0	-300.0	-265.0	HOLD - 2826.0 at 6230.2 MD
9,056.2	9,036.0	-300.0	-265.0	KOP - Build 10.00
9,956.3	9,609.0	272.4	-237.0	EOC/TRN - DLS 2.00 TFO -90.00
10,117.3	9,608.9	433.3	-233.7	Start 4165.0 hold at 10117.3 MD
14,282.3	9,608.2	4,598.2	-264.2	Start Turn -2.00
14,511.3	9,608.2	4,826.9	-275.0	Start 200.0 hold at 14511.3 MD
14,711.3	9,608.1	5,026.1	-292.4	Start Turn 2.00
15,011.3	9,608.1	5,325.8	-302.9	Start Turn 2.00
15,161.3	9,608.0	5,475.6	-296.4	Start 220.0 hold at 15161.3 MD
15,381.3	9,608.0	5,695.1	-281.0	Start DLS 2.00 TFO -90.00
15,602.1	9,608.0	5,915.7	-274.1	Start 4257.4 hold at 15602.1 MD
19,859.5	9,607.2	10,173.0	-305.0	TD at 19859.5

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 20292

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	372043	20292	C-103A
523 Park Point Drive			
OCD Reviewer	Condition		
pkautz	None		