

JAN 18 2019

Intent ☒ As Drilled ☐

RECEIVED

API #  
30.015-45641

Operator Name: Tap Rock Operating, LLC	Property Name: Pliny The Elder Fee	Well Number 202H
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Kick Off Point (KOP)

UL H	Section 5	Township 23S	Range 27E	Lot	Feet 1650	From N/S N	Feet 330	From E/W E	County Eddy
Latitude 32.3348862					Longitude -104.2047419			NAD NAD83	

First Take Point (FTP)

UL H	Section 5	Township 23S	Range 27E	Lot	Feet 1650	From N/S N	Feet 330	From E/W E	County Eddy
Latitude 32.3366450					Longitude -104.2047531			NAD NAD83	

Last Take Point (LTP)

UL	Section 6	Township 23S	Range 27E	Lot 5	Feet 1651	From N/S N	Feet 330	From E/W W	County Eddy
Latitude 32.3365876					Longitude -104.2366003			NAD NAD83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ N

Is this well an infill well? ☐ Y

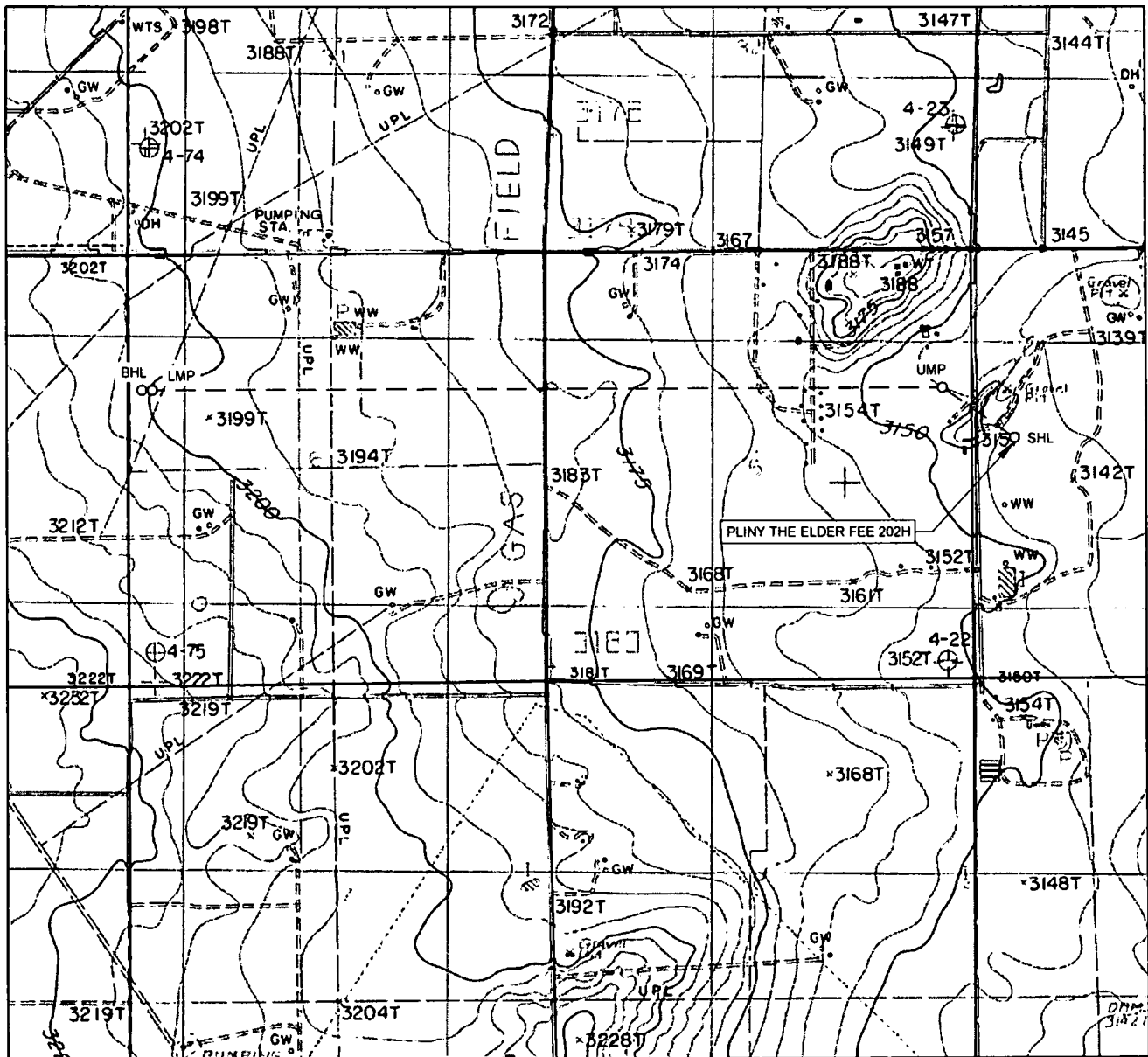
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #  
30-015-44998

Operator Name: Tap Rock Operating, LLC	Property Name: Pliny The Elder 23S27E0605	Well Number 201H
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KZ 06/29/2018

# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: PLINY THE ELDER FEE 202H

SECTION 4 TWP 23-S RGE 27-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 3151'  
 DESCRIPTION 2276' FNL & 566' FWL

LATITUDE N 32.3349494 LONGITUDE W 104.2018397



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, L.L.C. 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.

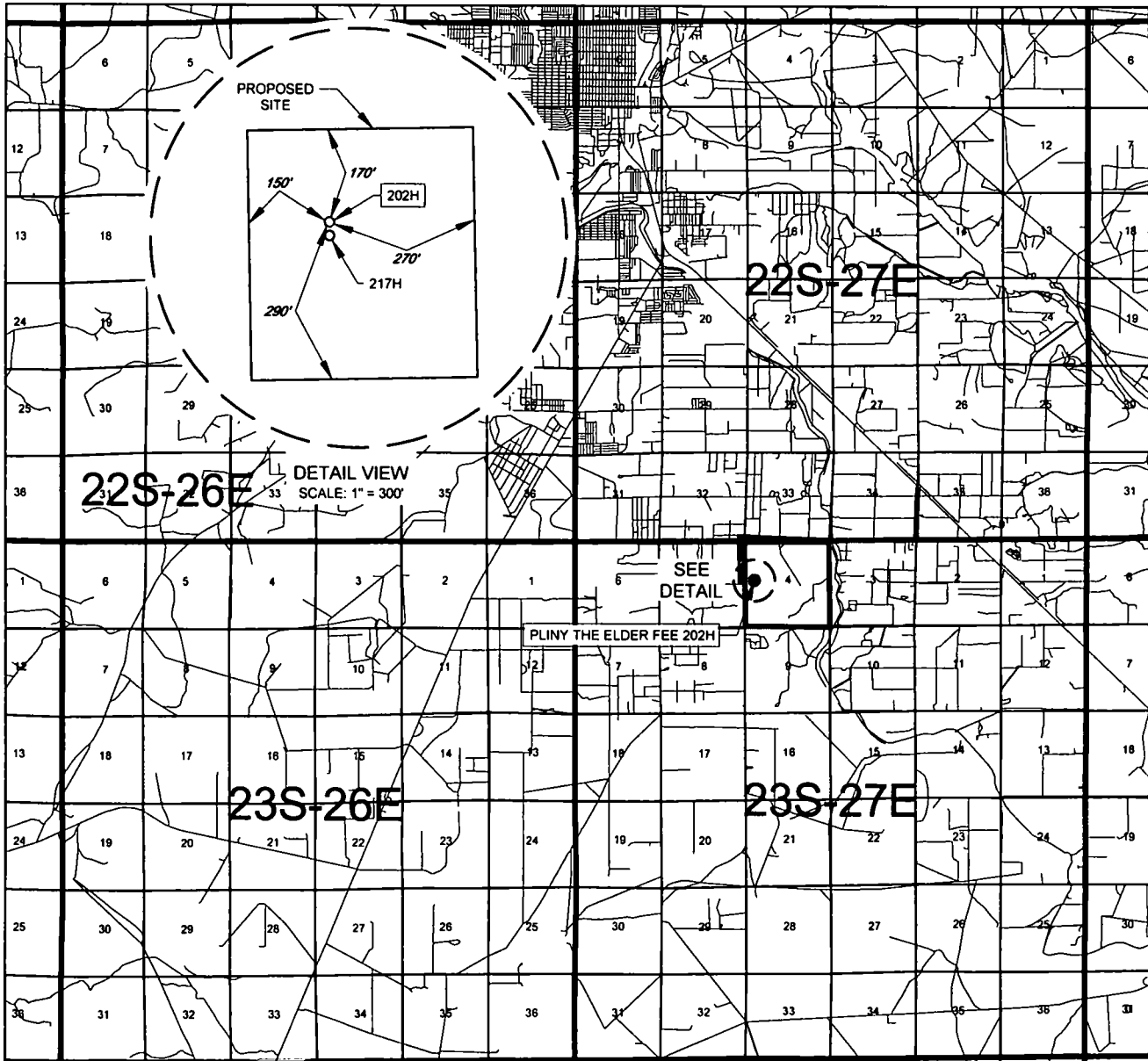
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • 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) 787-1653 • FAX (432) 682-1743  
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EXHIBIT 2  
VICINITY MAP



LEASE NAME & WELL NO.: PLINY THE ELDER FEE 202H

SECTION 4 TWP 23-S RGE 27-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM  
DESCRIPTION 2276' FNL & 566' FWL

**DISTANCE & DIRECTION**

FROM INT. OF GRANDI RD. & US-285, GO SOUTH ON GRANDI RD. ±0.6 MILES,  
THENCE WEST (RIGHT) ON E DERRICK RD. ±2.0 MILES, THENCE SOUTH  
(LEFT) ON S THOMASON RD. ±0.4 MILE TO A POINT ±535 FEET WEST OF THE  
LOCATION.

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.



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

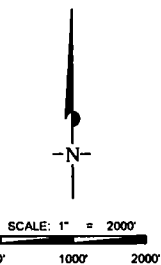
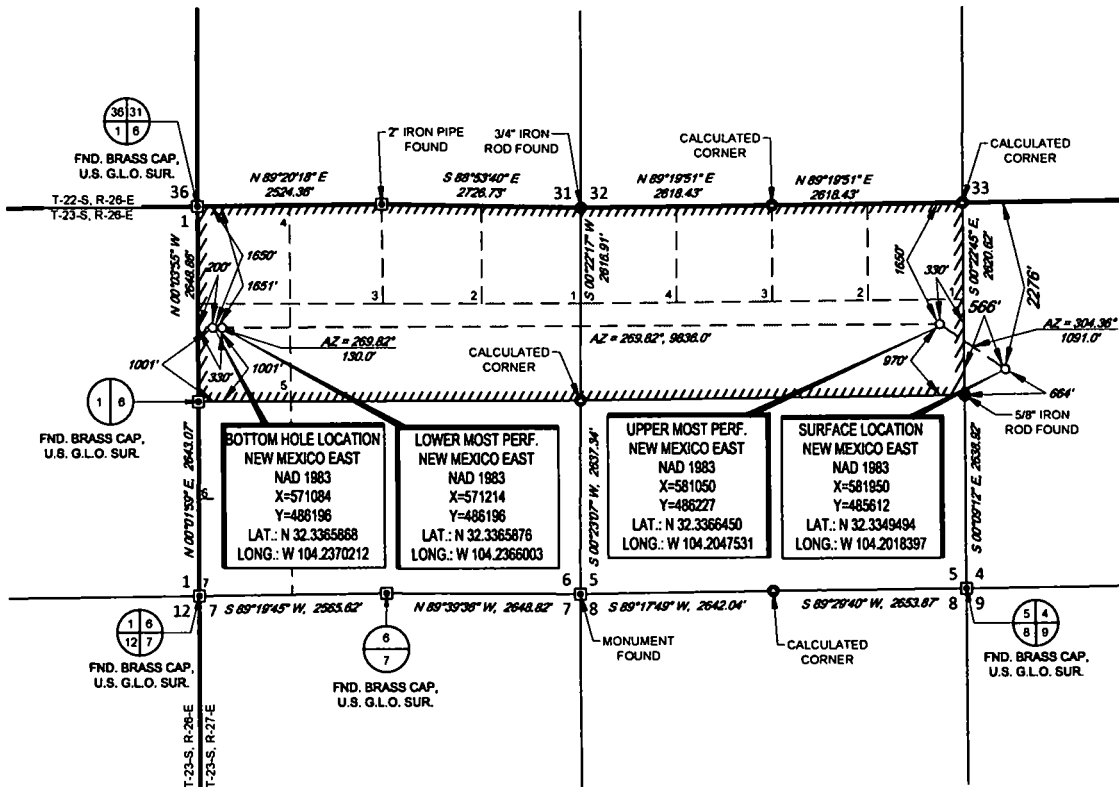


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# TAP ROCK EXHIBIT 2A

SECTION 4, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

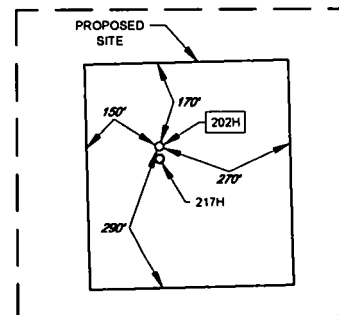


LEASE NAME & WELL NO.: PLINY THE ELDER FEE 202H

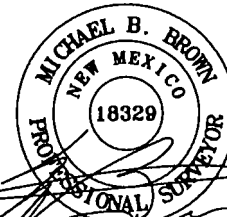
SECTION 4 TWP 23-S RGE 27-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM  
DESCRIPTION 2276' FNL & 566' FWL

**DISTANCE & DIRECTION**  
FROM INT. OF GRANDI RD. & US-285, GO SOUTH ON GRANDI RD.  $\pm 0.6$  MILES,  
THENCE WEST (RIGHT) ON E DERRICK RD.  $\pm 2.0$  MILES, THENCE SOUTH (LEFT)  
ON S THOMASON RD.  $\pm 0.4$  MILE TO A POINT  $\pm 535$  FEET WEST OF THE  
LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID  
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY  
FEET.  
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND  
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF  
SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND  
LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS  
NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



DETAIL VIEW  
SCALE: 1" = 300'



Michael Blake Brown, P.S. No. 18329  
DECEMBER 12, 2018

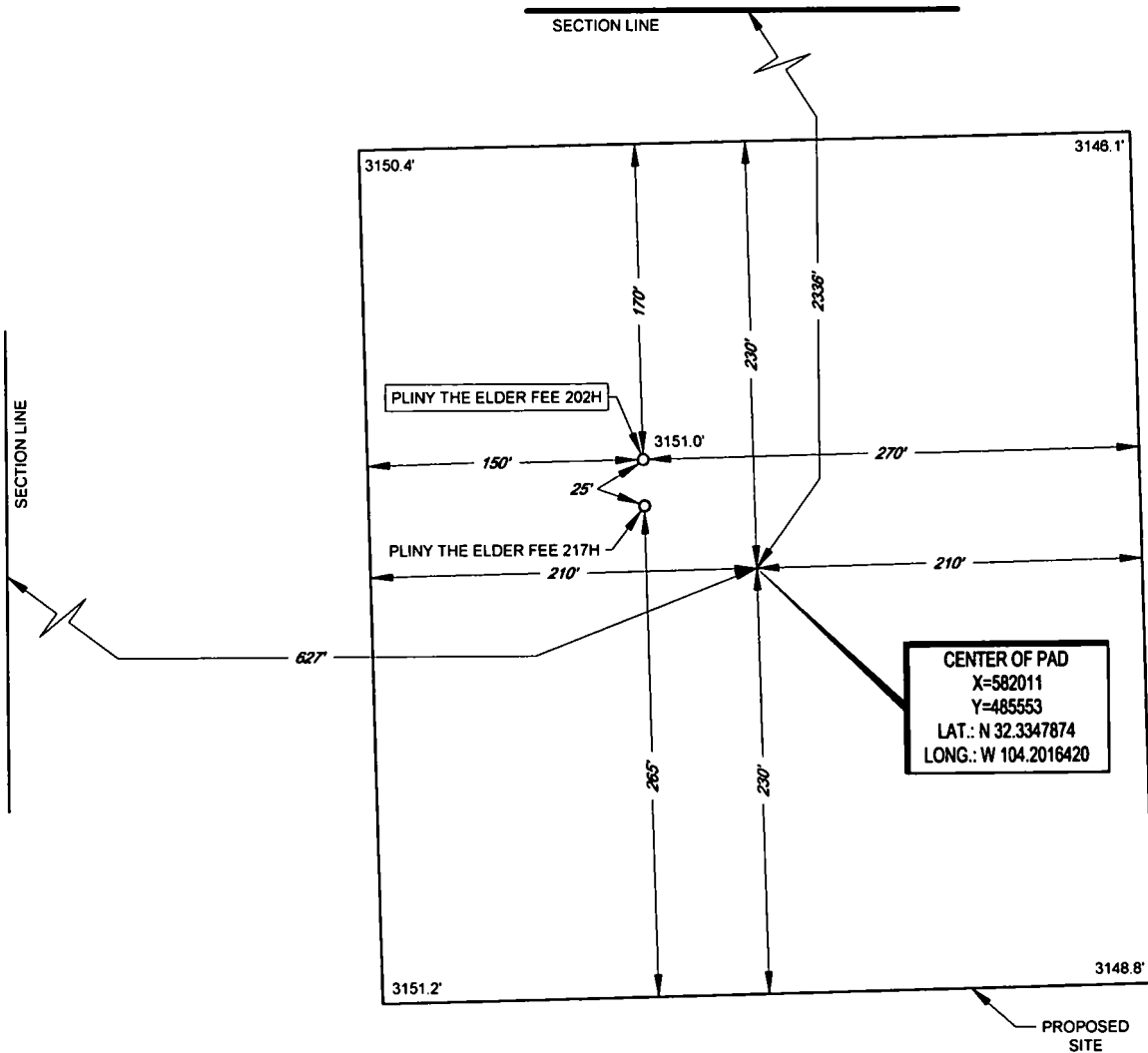
**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY  
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# EXHIBIT 2B



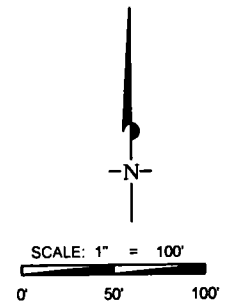
SECTION 4, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: PLINY THE ELDER FEE 202H  
202H LATITUDE N 32.3349494 202H LONGITUDE W 104.2018397

CENTER OF PAD IS 2336' FNL & 627' FWL



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 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. THIS CERTIFICATION IS MADE AND LIMITED TO  
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SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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NM OIL CONSERVATION  
ARTESIA DISTRICT

JAN 18 2019

RECEIVED

## Tap Rock Operating, LLC

Eddy County, NM (NAD 83)

Pliny The Elder Fee

202H

*30.015.45641*

OH

Plan: Plan 1

## Standard Survey Report

10 January, 2019





Pro Directional  
Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 202H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3177.50usft (GL:3151' + KB:26.5')
Site:	Pliny The Elder Fee	MD Reference:	Well @ 3177.50usft (GL:3151' + KB:26.5')
Well:	202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	WellPlanner1

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

Site	Pliny The Elder Fee				
Site Position:		Northing:	486,990.00 usft	Latitude:	32.338739
From:	Map	Easting:	581,705.00 usft	Longitude:	-104.202628
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well	202H					
Well Position	+N/-S	0.00 usft	Northing:	485,612.00 usft	Latitude:	32.334951
	+E/-W	0.00 usft	Easting:	581,950.00 usft	Longitude:	-104.201840
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,151.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/10/2019	7.27	60.03	47,936.10

Design	Plan 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.82	

Survey Tool Program	Date	1/10/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,000.00	Plan 1 (OH)	MWD+HDGM	OWSG MWD + HRGM	
5,000.00	8,400.00	Plan 1 (OH)	MWD+HDGM	OWSG MWD + HRGM	
8,400.00	19,347.42	Plan 1 (OH)	MWD+HDGM	OWSG MWD + HRGM	

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
557.00	0.00	0.00	557.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anhydrite									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00