U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

05/26/2023

Well Name: SEINFELD FEDERAL UNIT YADA

Well Location: T24S / R35E / SEC 35 / SWSW /

County or Parish/State:

Well Number: 222H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138896

Unit or CA Name:

Unit or CA Number: NMNM141169X

US Well Number: 3002550986

Well Status: Approved Application for Permit to Drill

Operator: TAP ROCK OPERATING LLC

Notice of Intent

Sundry ID: 2725402

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/12/2023

Time Sundry Submitted: 01:04

Date proposed operation will begin: 04/12/2023

Procedure Description: Yada 222H For the referenced well, Tap Rock requests: 1. To change modify OH size and casing/cement design. See attached updated drilling plans. 2. To change the SHL: From: 240’ FSL, 1081’ FWL, Section 35, T-24S-R35E, Lea County, NM To: 240’ FSL, 1033’ FWL, Section 35, T-24S-R35E, Lea County, NM See attached updated drilling plans, directional plans, and C-102.

NOI Attachments

Procedure Description

Seinfeld_Federal_Unit_Yada_222H_Plan_2_20230412130421.pdf

LO_SEINFELD_FEDERAL_UNIT_YADA_222H_REV1_S_FINAL_20230412130414.pdf

APD_Drilling_Plan___Yada_Fed_Com_222H_Sundry_04_12_23_20230412130403.pdf

Well Name: SEINFELD FEDERAL UNIT YADA

Well Location: T24S / R35E / SEC 35 / SWSW /

County or Parish/State:

Well Number: 222H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138896

Unit or CA Name:

Unit or CA Number: NMNM141169X

US Well Number: 3002550986

Well Status: Approved Application for Permit to Drill

Operator: TAP ROCK OPERATING LLC

Conditions of Approval

Additional

Sec_33_24S_35E_NMP_Sundry_2725402_Seinfeld_Federal_Unit_Yada_222H_COAs_20230525144303.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JEFFREY TRLICA

Signed on: APR 12, 2023 01:04 PM

Name: TAP ROCK OPERATING LLC

Title: Regulatory Analyst

Street Address: 523 PARK POINT DRIVE SUITE 200

City: GOLDEN **State:** CO

Phone: (720) 772-5910

Email address: JTRLICA@TAPRK.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/26/2023

Signature: Chris Walls

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-50986	98098	WC-025 G-09 S243532M:WOLFBONE

[4]Property Code	[5]Property Name	[6]Well Number
333091	SEINFELD FEDERAL UNIT YADA	222H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372043	TAP ROCK OPERATING, LLC.	3255'

[10]Surface Location

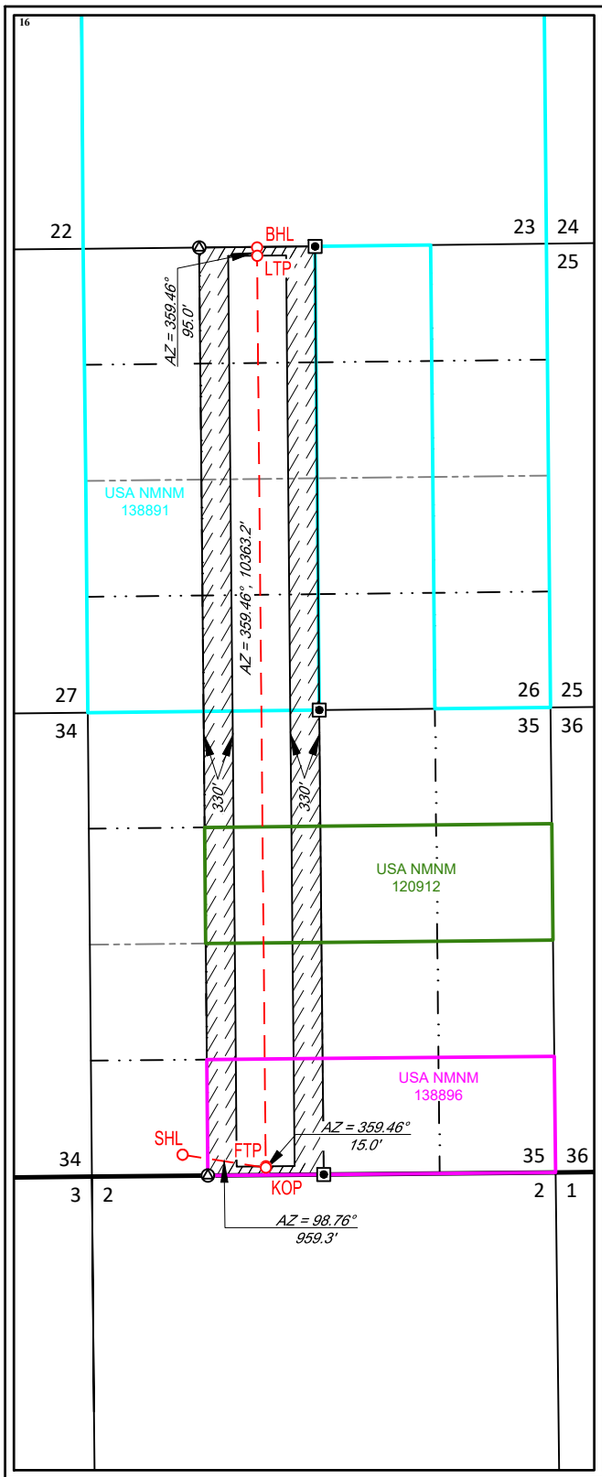
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	24-S	35-E	–	240'	SOUTH	1033'	WEST	LEA

[11]Bottom 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
C	26	24-S	35-E	–	5'	NORTH	1980'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320			

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.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
240' FSL - SEC. 35
1033' FWL - SEC. 35
X=847620 Y=426037
LAT.: N 32.1673820
LONG.: W 103.3435075

KICK OFF POINT (KOP)
85' FSL - SEC. 35
1980' FWL - SEC. 35
X=848568 Y=425891
LAT.: N 32.1669564
LONG.: W 103.3404483

FIRST TAKE POINT (FTP)
100' FSL - SEC. 35
1980' FWL - SEC. 35
X=848568 Y=425906
LAT.: N 32.1669976
LONG.: W 103.3404483

LAST TAKE POINT (LTP)
100' FNL - SEC. 26
1980' FWL - SEC. 26
X=848469 Y=436269
LAT.: N 32.1954822
LONG.: W 103.3404571

BOTTOM HOLE LOCATION (BHL)
5' FNL - SEC. 26
1980' FWL - SEC. 26
X=848468 Y=436364
LAT.: N 32.1957433
LONG.: W 103.3404572

[17]OPERATOR 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.

4/12/2023

Signature Date

Jeff Trlica

Printed Name

jtrlica@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.

08/27/2021

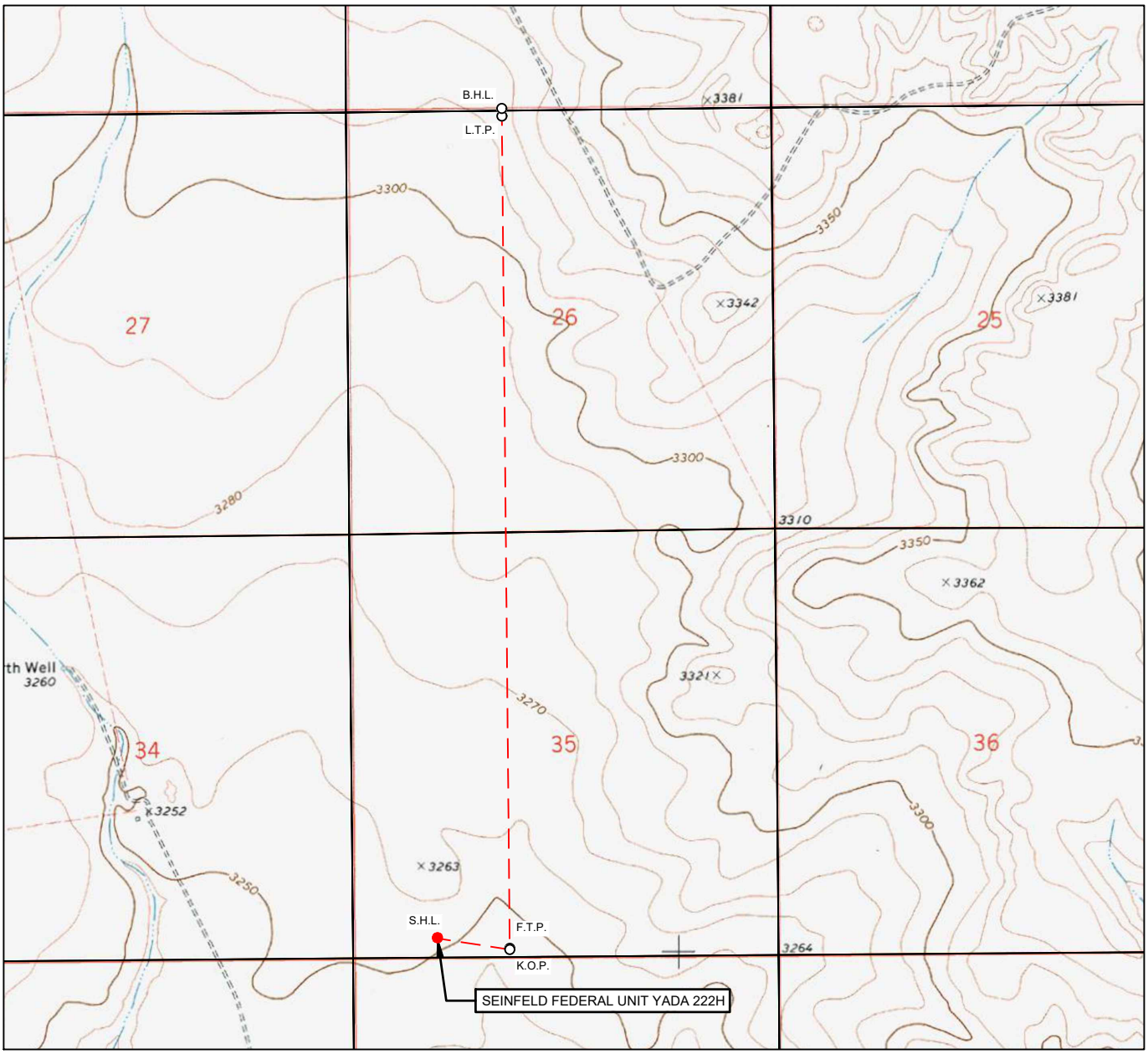
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\TAPROCK\YADA_UNIT\FINAL_PRODUCTS\LO_SEINFELD_FEDERAL_UNIT_YADA_222H_REV1.DWG 4/3/2023 3:48:53 PM mark.hamilton

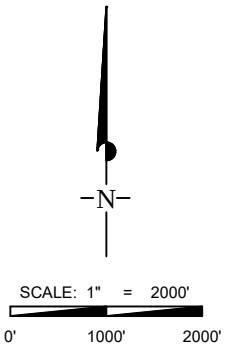
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 222H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3255'
DESCRIPTION 240' FSL & 1033' FWL

LATITUDE N 32.1673820 LONGITUDE W 103.3435075



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
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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

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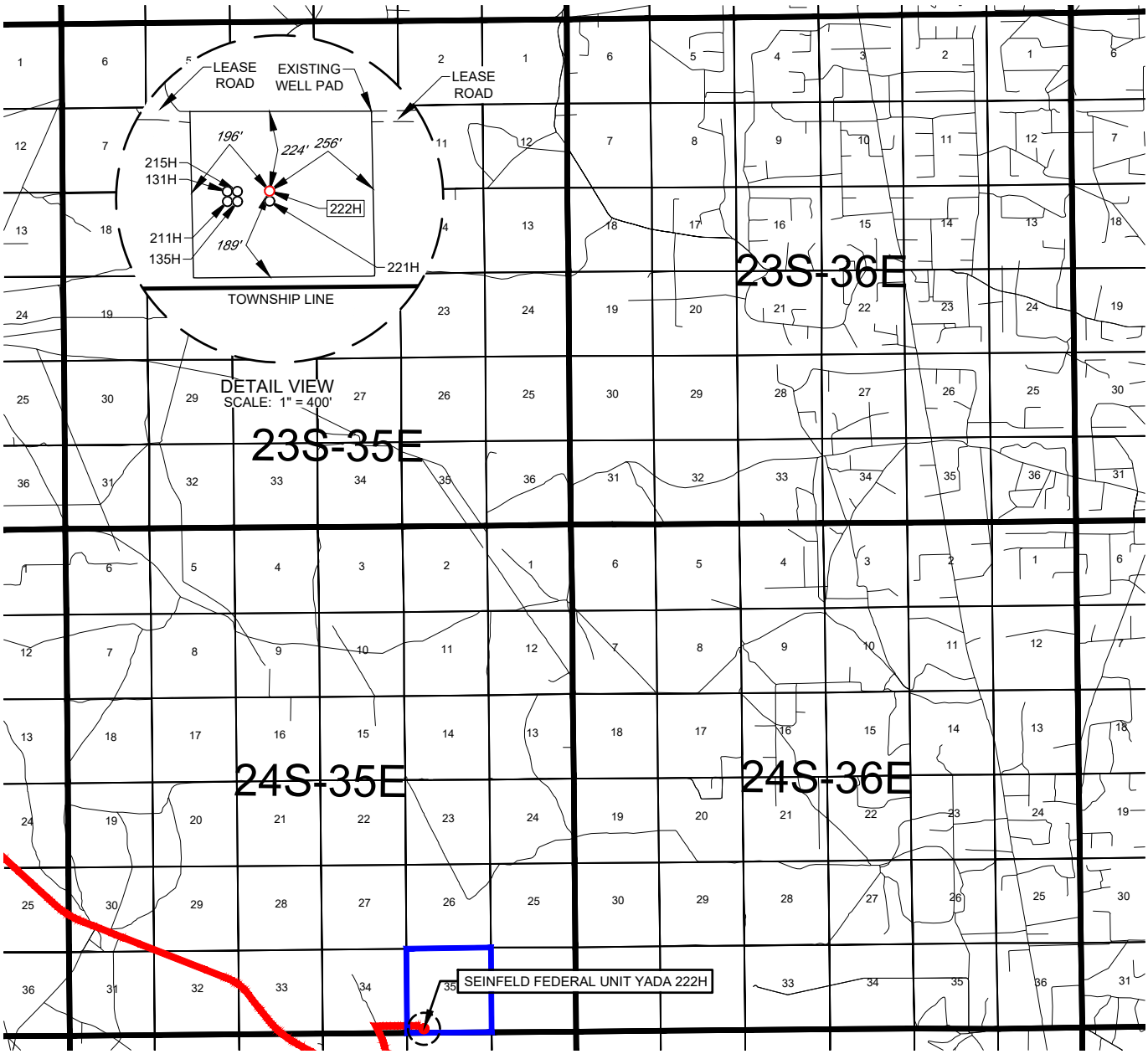
EXHIBIT 2

VICINITY MAP



LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 222H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 240' FSL & 1033' FWL

DISTANCE & DIRECTION

FROM INT. OF DELAWARE BASIN RD. & NM-128, GO EAST ON NM-128 ±10.4 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±0.9 MILES, THENCE EAST (RIGHT) ON A LEASE RD. ±0.5 MILES TO A POINT ±312 FEET NORTHWEST OF THE LOCATION.

–N–

SCALE: 1" = 10000'

0' 5000' 10000'

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.

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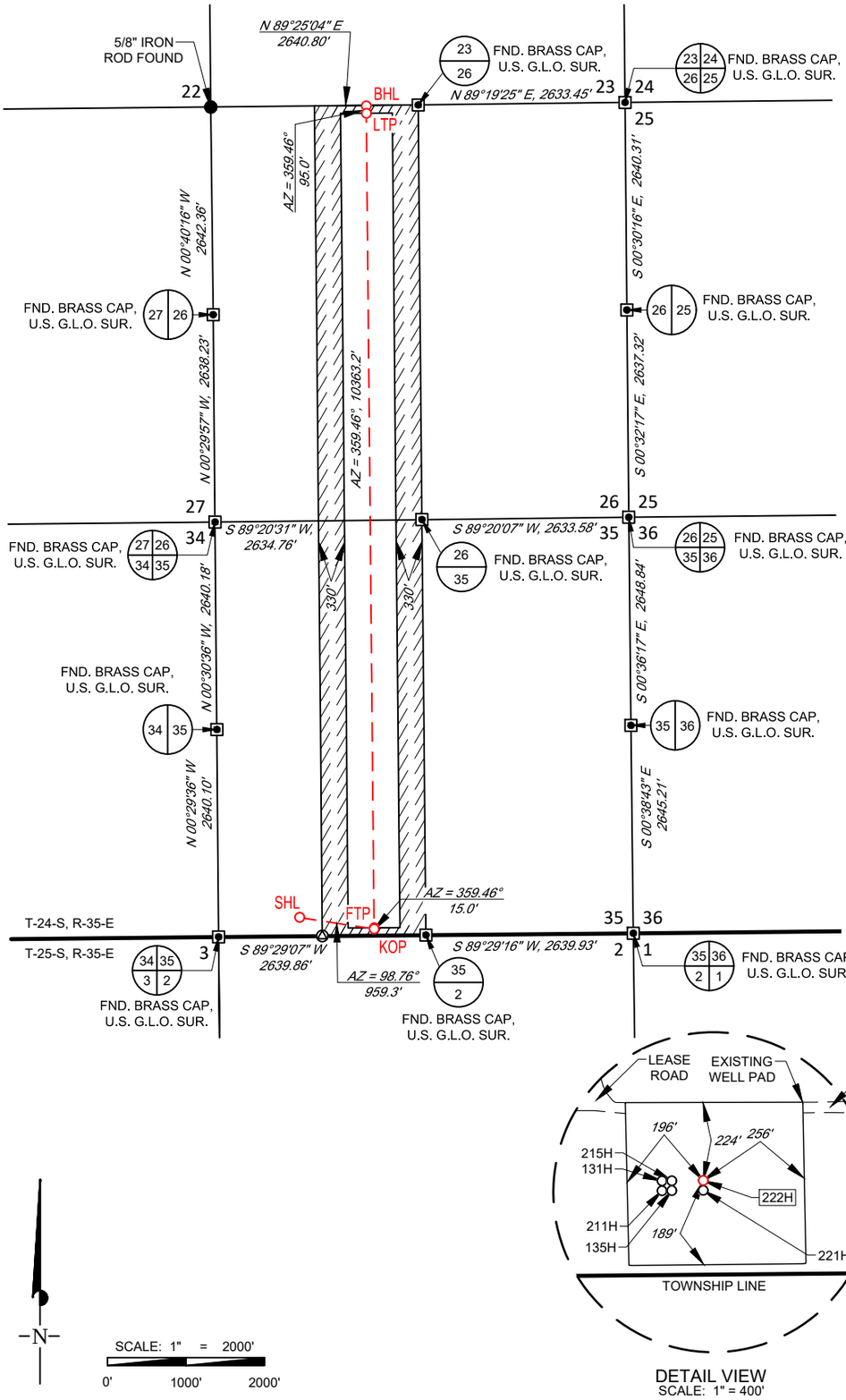
WWW.TOPOGRAPHIC.COM

EXHIBIT 2A

SECTION 35, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



DETAIL VIEW
SCALE: 1" = 400'

N

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

NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
240' FSL - SEC. 35 1033' FWL - SEC. 35 X=847620 Y=426037 LAT.: N 32.1673820 LONG.: W 103.3435075
KICK OFF POINT (KOP)
85' FSL - SEC. 35 1980' FWL - SEC. 35 X=848568 Y=425891 LAT.: N 32.1669564 LONG.: W 103.3404483
FIRST TAKE POINT (FTP)
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LAST TAKE POINT (LTP)
100' FNL - SEC. 26 1980' FWL - SEC. 26 X=848469 Y=436269 LAT.: N 32.1954822 LONG.: W 103.3404571
BOTTOM HOLE LOCATION (BHL)
5' FNL - SEC. 26 1980' FWL - SEC. 26 X=848468 Y=436364 LAT.: N 32.1957433 LONG.: W 103.3404572

LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 222H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 240' FSL & 1033' FWL

DISTANCE & DIRECTION

FROM INT. OF DELAWARE BASIN RD. & NM-128, GO EAST ON NM-128 ±10.4 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±0.9 MILES, THENCE EAST (RIGHT) ON A LEASE RD. ±0.5 MILES TO A POINT ±312 FEET NORTHWEST OF THE LOCATION.

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

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Ramon A Dominguez, P.S. No. 24508
April 16, 2023

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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EXHIBIT 2B

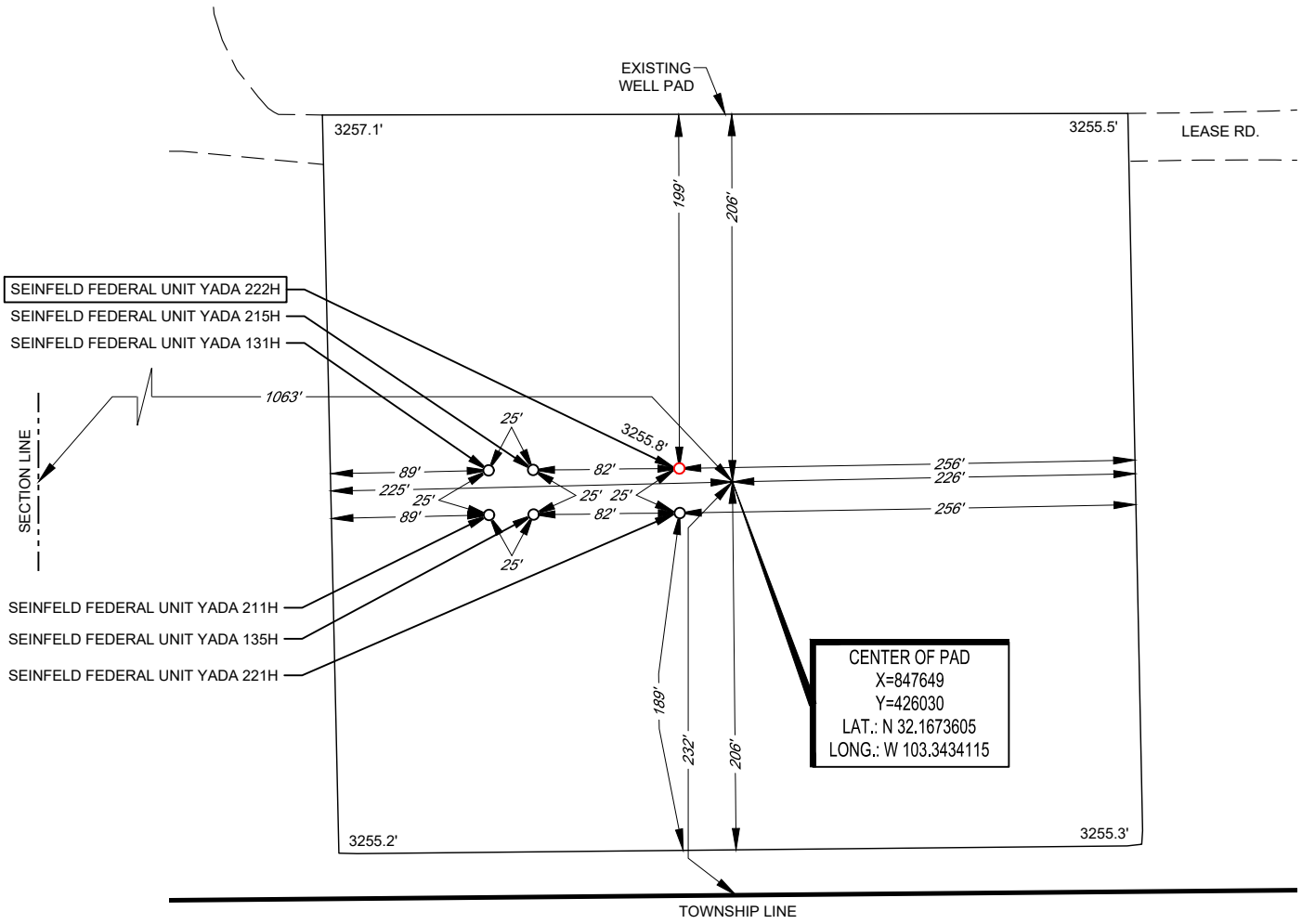
TAP ROCK

SECTION 35, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 222H

222H LATITUDE N 32.1673820 222H LONGITUDE W 103.3435075

CENTER OF PAD IS 232' FSL & 1063' FWL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

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
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240' FSL & 1033' FWL, Sec. 35
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

Elevation above Sea Level: 3255'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	590	590	Salt	Salt
Top Salt	1,252	1,252	Salt	Salt
Base Salt	4,782	4,809	Salt	Salt
DMG	4,972	5,001	Sandstone	None
Lamar	4,977	5,006	Sandstone	Hydrocarbons
Bell Canyon	4,998	5,027	Sandstone	Hydrocarbons
Ramsey Sand	5,018	5,048	Sandstone	Hydrocarbons
Cherry Canyon	5,961	6,000	Limestone	Hydrocarbons
Brushy Canyon	7,403	7,456	Sandstone	Hydrocarbons
Bone Spring Lime	8,746	8,805	Carbonate	Hydrocarbons
Upper Avalon	8,784	8,842	Carbonate	Hydrocarbons
Middle Avalon	8,985	9,044	Carbonate	Hydrocarbons
Lower Avalon	9,648	9,707	Carbonate	Hydrocarbons
1st BS Sand	9,997	10,055	Sandstone	Hydrocarbons
2nd BS Carb	10,315	10,374	Carbonate	Hydrocarbons
2nd BS Sand	10,597	10,656	Sandstone	Hydrocarbons
3rd BS Carb	11,071	11,130	Carbonate	Hydrocarbons
3rd BS Sand	11,636	11,694	Sandstone	Hydrocarbons
Wolfcamp	11,941	11,999	Shale	Hydrocarbons
KOP	11939	11997	Carbonate	Hydrocarbons
TD	12322	22808	Carbonate	Hydrocarbons

2. Notable Zones

Wolfcamp B is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 22,808', a 10M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240' FSL & 1033' FWL, Sec. 35
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

BOP Test procedure will be as follows:
After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 10000 psi high, and the annular preventer will be tested to 250 psi low, 5000 psi high. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

Variance Requests:
Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after cementing a casing string, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 5,000 psi high.

4. Casing & Cement

All Casing will be new.
Casing Design:

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	14 3/4	0	950	10 3/4	API	No	0	950	0	950	J-55	45.5	BUTT	1.13	1.15	1.6
Intermediate	9 7/8	950	11897	7 5/8	API	No	0	11897	0	11839	L-80IC	29.7	BUTT	1.13	1.15	1.6
Production	6 3/4	11897	22808	5 1/2	NON API	No	0	11697	0	11639	P-110	20	TXP	1.13	1.15	1.6
				5 1/2	NON API	No	11697	22808	11639	12322	P-110	20	W441	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	397	1.82	723	13.5	100%	C	5% NCl + LCM
	Tail	650	249	1.34	334	14.8	100%	C	5% NCl + LCM
Intermediate	Lead	0	870	4.29	3732	10.5	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	10897	212	1.67	354	13.2	65%	C	5% NaCl
Production	Tail	11597	851	1.32	1123	14.0	20%	H	Fluid Loss + Dispersant + Retarder

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	950	FW Spud Mud	8.40	28	NC
Intermediate	950	11897	DBE	9.00	30 - 32	NC
Production	11897	22808	OBM	11.50	50 - 70	< 16

Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240' FSL & 1033' FWL, Sec. 35
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from KOP to TD.
- A 2-person mud logging program will be used from KOP to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 7,368 psi. Expected bottom hole temperature is ≈195˚ F.

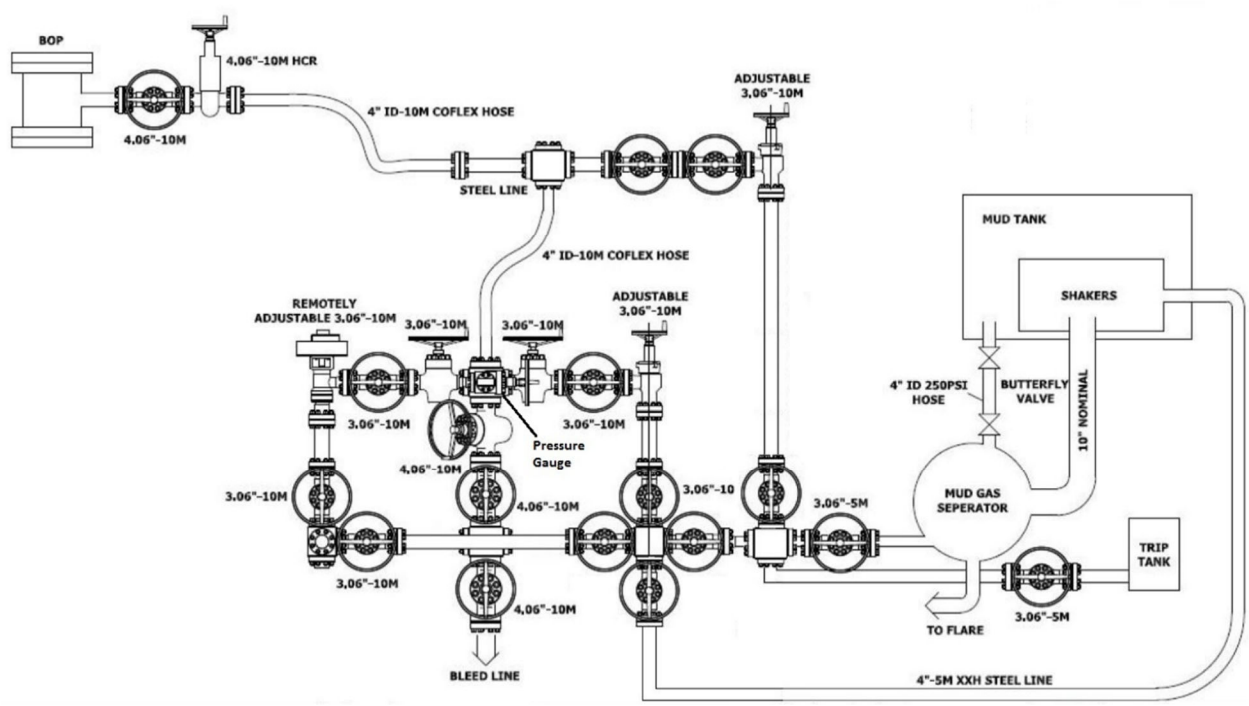
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp B formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package on all wells and an "H2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. Other Information

Road and location have already been constructed. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.

Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240' FSL & 1033' FWL, Sec. 35
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

10M Choke Layout



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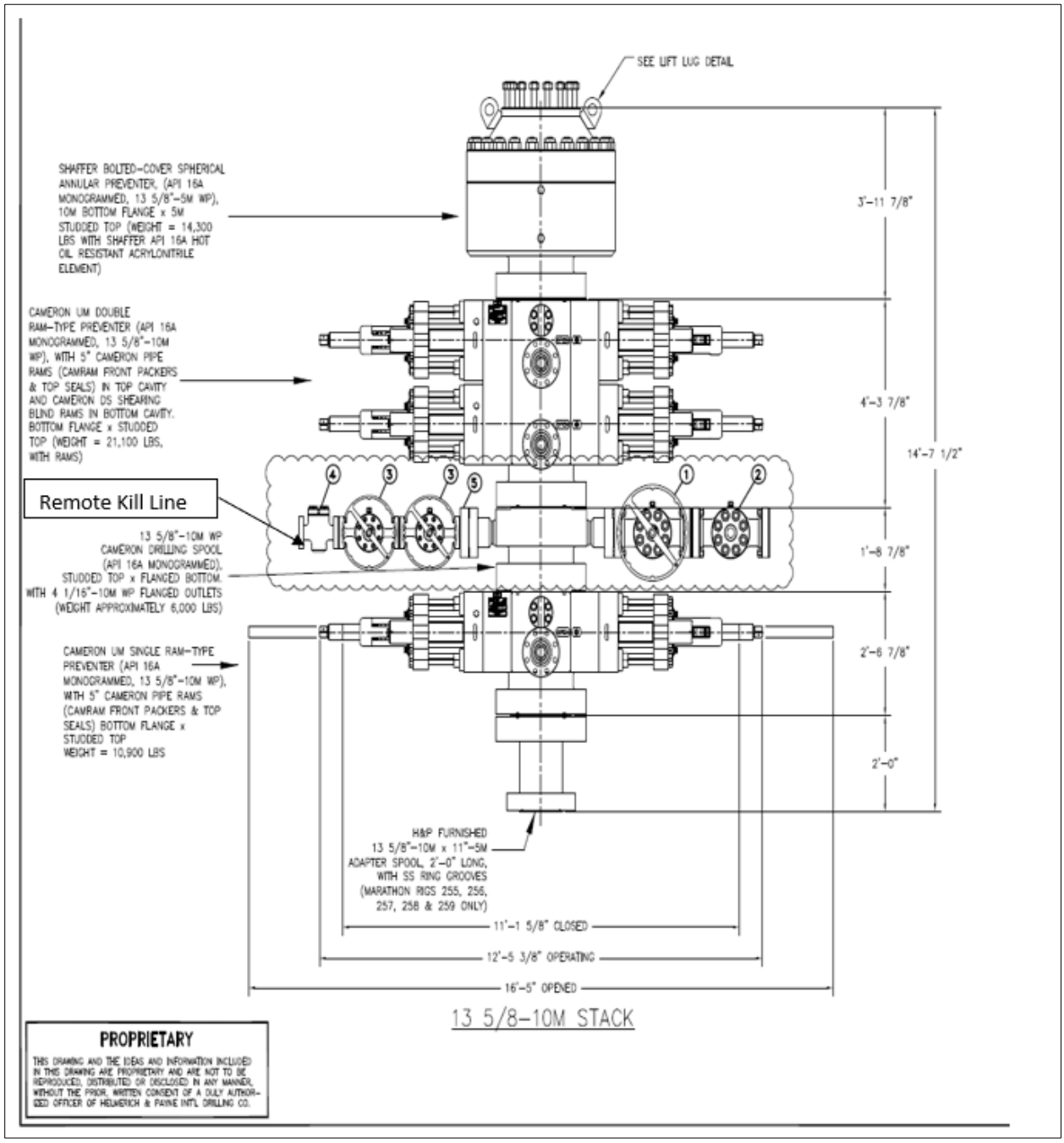
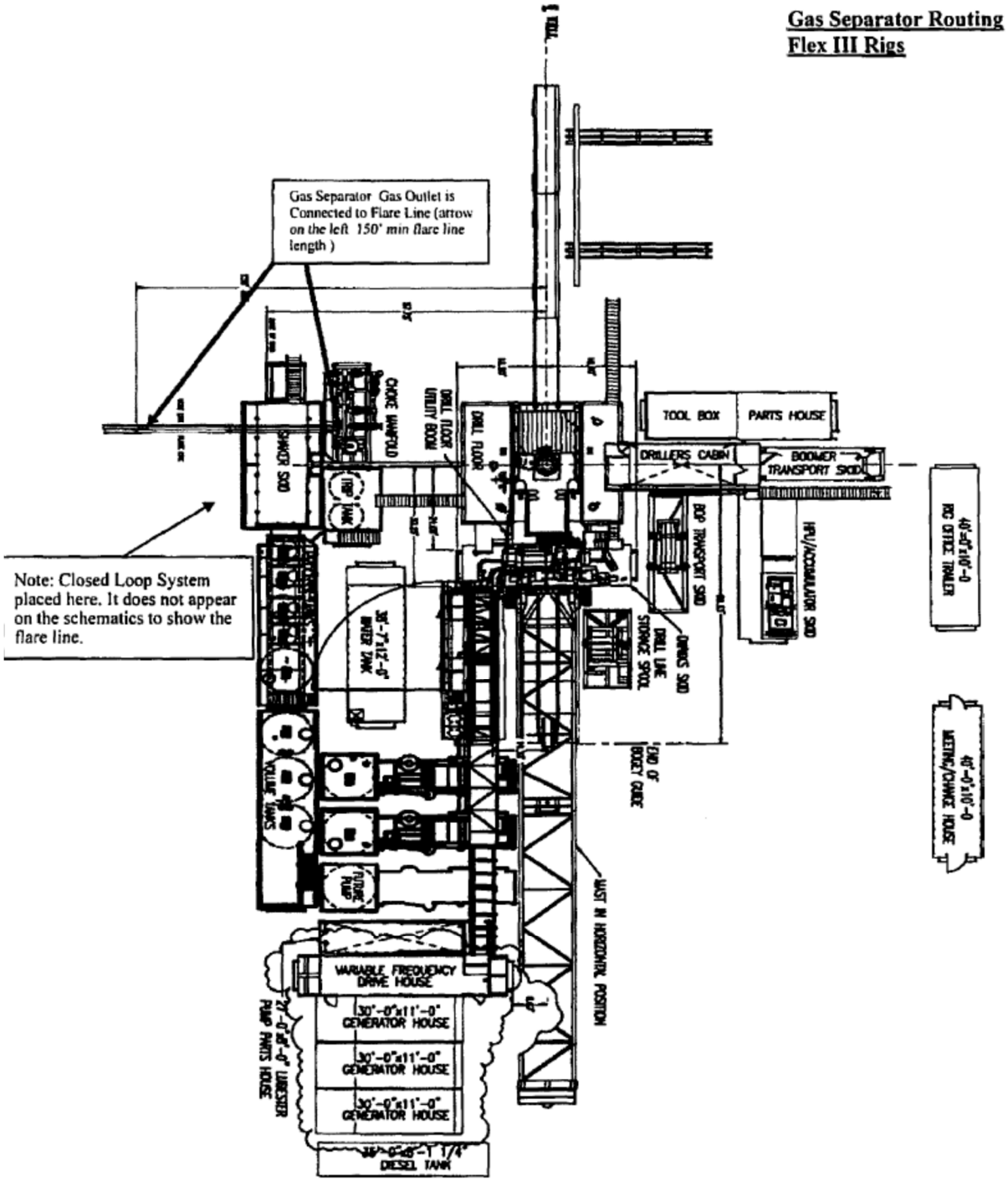
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

10M BOP Stack with 5M Annular



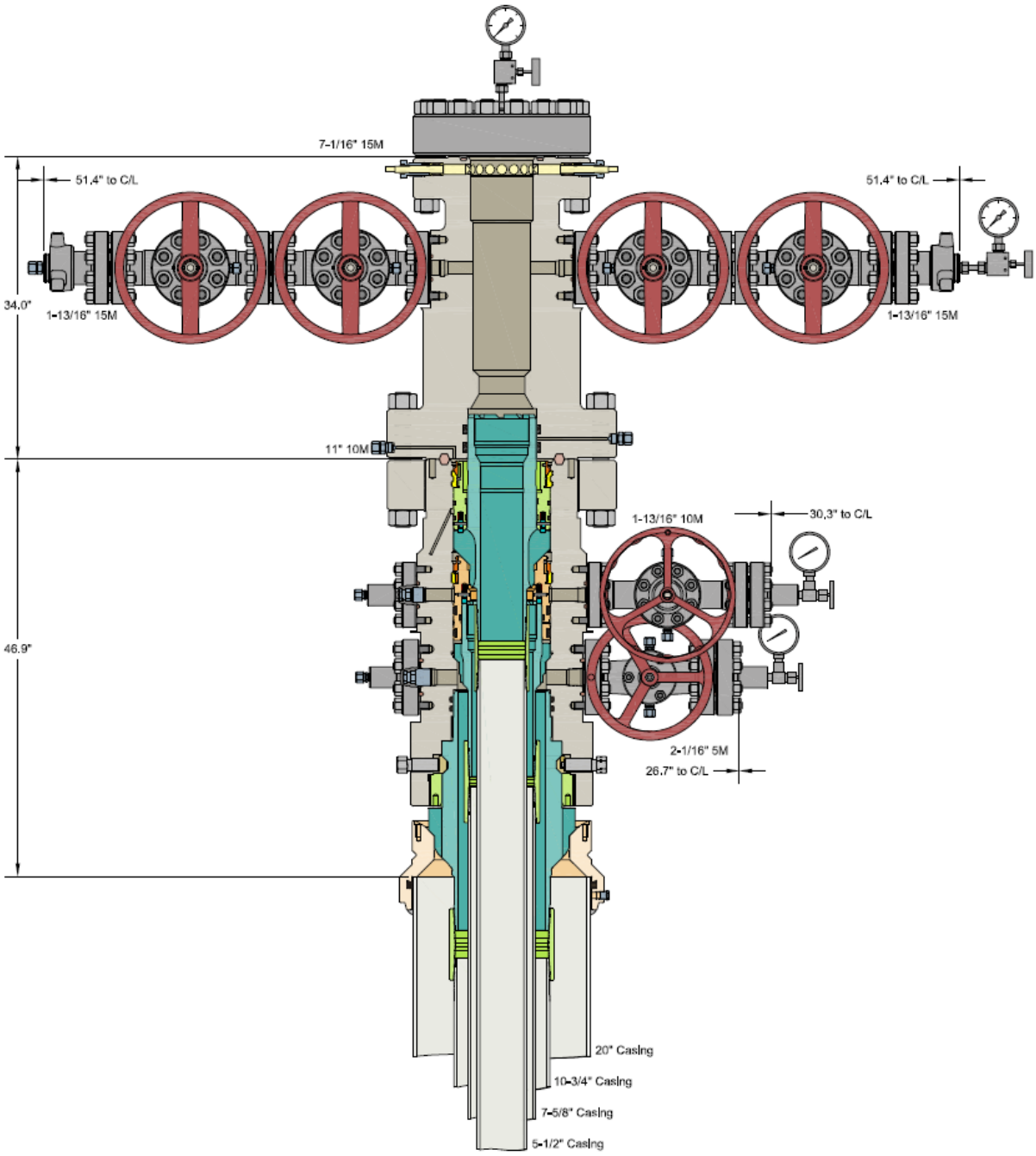
Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240' FSL & 1033' FWL, Sec. 35
BHL 5' FNL & 1980' FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

Gas Separator Routing
Flex III Rigs



Drilling Operations Plan
Seinfeld Federal Unit Yada #222H
Tap Rock Operating, LLC
SHL 240’ FSL & 1033’ FWL, Sec. 35
BHL 5’ FNL & 1980’ FWL, Sec. 26
T. 24S., R. 35E Lea County, NM

Multi-bowl Wellhead Design



Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Yada Fed Com) Sec-35_T-24-S_R-35-E
Seinfeld Federal Unit Yada #222H

OWB

Plan: Plan #2

Standard Planning Report

06 April, 2023

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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 (Yada Fed Com) Sec-35_T-24-S_R-35-E

Site Position:		**Northing:**	426,095.00 usft	**Latitude:**	32° 10' 2.829 N
From:	Map	**Easting:**	851,098.00 usft	**Longitude:**	103° 19' 56.158 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.53 °

Well Seinfeld Federal Unit Yada #222H

Well Position	**+N/-S**	-58.0 usft	**Northing:**	426,037.00 usft	**Latitude:**	32° 10' 2.574 N
	+E/-W	-3,478.0 usft	**Easting:**	847,620.00 usft	**Longitude:**	103° 20' 36.623 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,255.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/14/21	6.37	59.99	47,484.38039015

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	359.45

Plan Survey Tool Program **Date** 04/06/23

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,807.7	Plan #2 (OWB)	MWD OWSG MWD - Standard	

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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	
2,301.9	8.02	99.89	2,299.3	-9.6	55.2	1.00	1.00	0.00	99.89	
7,756.7	8.02	99.89	7,700.7	-140.4	804.8	0.00	0.00	0.00	0.00	
8,558.6	0.00	0.00	8,500.0	-150.0	860.0	1.00	-1.00	0.00	180.00	
11,997.3	0.00	0.00	11,938.7	-150.0	860.0	0.00	0.00	0.00	0.00	
12,902.3	90.50	6.23	12,511.6	424.5	922.7	10.00	10.00	0.00	6.23	
13,241.4	90.50	359.45	12,508.7	763.1	939.5	2.00	0.00	-2.00	-89.97	
13,987.4	90.50	359.45	12,502.2	1,509.0	932.3	0.00	0.00	0.00	0.00	1500'VS (Yada Fed
14,012.4	91.00	359.45	12,501.8	1,534.0	932.1	2.00	2.00	0.03	0.83	
16,987.9	91.00	359.45	12,449.9	4,508.9	903.7	0.00	0.00	0.00	0.00	
17,027.9	91.80	359.45	12,448.9	4,548.9	903.3	2.00	2.00	-0.01	-0.29	
19,994.4	91.80	359.45	12,355.7	7,513.8	874.9	0.00	0.00	0.00	0.00	
20,034.3	91.00	359.45	12,354.8	7,553.7	874.5	2.00	-2.00	0.01	179.72	
20,989.5	91.00	359.45	12,338.1	8,508.7	865.4	0.00	0.00	0.00	0.00	8500'VS (Yada Fed
21,014.8	90.50	359.45	12,337.7	8,534.0	865.1	2.00	-2.00	-0.01	-179.81	
22,808.0	90.50	359.45	12,322.2	10,327.0	848.0	0.00	0.00	0.00	0.00	PBHL (Yada Fed Cc

Intrepid
Planning Report

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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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
NUDGE - Build 1.00									
1,600.0	1.00	99.89	1,600.0	-0.1	0.9	-0.2	1.00	1.00	0.00
1,700.0	2.00	99.89	1,700.0	-0.6	3.4	-0.6	1.00	1.00	0.00
1,800.0	3.00	99.89	1,799.9	-1.3	7.7	-1.4	1.00	1.00	0.00
1,900.0	4.00	99.89	1,899.7	-2.4	13.7	-2.5	1.00	1.00	0.00
2,000.0	5.00	99.89	1,999.4	-3.7	21.5	-4.0	1.00	1.00	0.00
2,100.0	6.00	99.89	2,098.9	-5.4	30.9	-5.7	1.00	1.00	0.00
2,200.0	7.00	99.89	2,198.3	-7.3	42.1	-7.7	1.00	1.00	0.00
2,301.9	8.02	99.89	2,299.3	-9.6	55.2	-10.2	1.00	1.00	0.00
HOLD - 5454.8 at 2301.9 MD									
2,400.0	8.02	99.89	2,396.4	-12.0	68.7	-12.6	0.00	0.00	0.00
2,500.0	8.02	99.89	2,495.4	-14.4	82.4	-15.2	0.00	0.00	0.00
2,600.0	8.02	99.89	2,594.5	-16.8	96.2	-17.7	0.00	0.00	0.00
2,700.0	8.02	99.89	2,693.5	-19.2	109.9	-20.2	0.00	0.00	0.00
2,800.0	8.02	99.89	2,792.5	-21.6	123.6	-22.8	0.00	0.00	0.00
2,900.0	8.02	99.89	2,891.5	-24.0	137.4	-25.3	0.00	0.00	0.00
3,000.0	8.02	99.89	2,990.6	-26.4	151.1	-27.8	0.00	0.00	0.00
3,100.0	8.02	99.89	3,089.6	-28.8	164.9	-30.3	0.00	0.00	0.00
3,200.0	8.02	99.89	3,188.6	-31.2	178.6	-32.9	0.00	0.00	0.00
3,300.0	8.02	99.89	3,287.6	-33.6	192.4	-35.4	0.00	0.00	0.00
3,400.0	8.02	99.89	3,386.6	-35.9	206.1	-37.9	0.00	0.00	0.00
3,500.0	8.02	99.89	3,485.7	-38.3	219.8	-40.5	0.00	0.00	0.00
3,600.0	8.02	99.89	3,584.7	-40.7	233.6	-43.0	0.00	0.00	0.00
3,700.0	8.02	99.89	3,683.7	-43.1	247.3	-45.5	0.00	0.00	0.00
3,800.0	8.02	99.89	3,782.7	-45.5	261.1	-48.0	0.00	0.00	0.00
3,900.0	8.02	99.89	3,881.8	-47.9	274.8	-50.6	0.00	0.00	0.00
4,000.0	8.02	99.89	3,980.8	-50.3	288.6	-53.1	0.00	0.00	0.00
4,100.0	8.02	99.89	4,079.8	-52.7	302.3	-55.6	0.00	0.00	0.00
4,200.0	8.02	99.89	4,178.8	-55.1	316.0	-58.2	0.00	0.00	0.00
4,300.0	8.02	99.89	4,277.8	-57.5	329.8	-60.7	0.00	0.00	0.00
4,400.0	8.02	99.89	4,376.9	-59.9	343.5	-63.2	0.00	0.00	0.00
4,500.0	8.02	99.89	4,475.9	-62.3	357.3	-65.7	0.00	0.00	0.00
4,600.0	8.02	99.89	4,574.9	-64.7	371.0	-68.3	0.00	0.00	0.00
4,700.0	8.02	99.89	4,673.9	-67.1	384.7	-70.8	0.00	0.00	0.00
4,800.0	8.02	99.89	4,773.0	-69.5	398.5	-73.3	0.00	0.00	0.00
4,900.0	8.02	99.89	4,872.0	-71.9	412.2	-75.9	0.00	0.00	0.00
5,000.0	8.02	99.89	4,971.0	-74.3	426.0	-78.4	0.00	0.00	0.00
5,100.0	8.02	99.89	5,070.0	-76.7	439.7	-80.9	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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)
5,200.0	8.02	99.89	5,169.0	-79.1	453.5	-83.4	0.00	0.00	0.00
5,300.0	8.02	99.89	5,268.1	-81.5	467.2	-86.0	0.00	0.00	0.00
5,400.0	8.02	99.89	5,367.1	-83.9	480.9	-88.5	0.00	0.00	0.00
5,500.0	8.02	99.89	5,466.1	-86.3	494.7	-91.0	0.00	0.00	0.00
5,600.0	8.02	99.89	5,565.1	-88.7	508.4	-93.6	0.00	0.00	0.00
5,700.0	8.02	99.89	5,664.2	-91.1	522.2	-96.1	0.00	0.00	0.00
5,800.0	8.02	99.89	5,763.2	-93.5	535.9	-98.6	0.00	0.00	0.00
5,900.0	8.02	99.89	5,862.2	-95.9	549.7	-101.1	0.00	0.00	0.00
6,000.0	8.02	99.89	5,961.2	-98.3	563.4	-103.7	0.00	0.00	0.00
6,100.0	8.02	99.89	6,060.2	-100.7	577.1	-106.2	0.00	0.00	0.00
6,200.0	8.02	99.89	6,159.3	-103.1	590.9	-108.7	0.00	0.00	0.00
6,300.0	8.02	99.89	6,258.3	-105.5	604.6	-111.3	0.00	0.00	0.00
6,400.0	8.02	99.89	6,357.3	-107.9	618.4	-113.8	0.00	0.00	0.00
6,500.0	8.02	99.89	6,456.3	-110.3	632.1	-116.3	0.00	0.00	0.00
6,600.0	8.02	99.89	6,555.4	-112.6	645.9	-118.8	0.00	0.00	0.00
6,700.0	8.02	99.89	6,654.4	-115.0	659.6	-121.4	0.00	0.00	0.00
6,800.0	8.02	99.89	6,753.4	-117.4	673.3	-123.9	0.00	0.00	0.00
6,900.0	8.02	99.89	6,852.4	-119.8	687.1	-126.4	0.00	0.00	0.00
7,000.0	8.02	99.89	6,951.4	-122.2	700.8	-129.0	0.00	0.00	0.00
7,100.0	8.02	99.89	7,050.5	-124.6	714.6	-131.5	0.00	0.00	0.00
7,200.0	8.02	99.89	7,149.5	-127.0	728.3	-134.0	0.00	0.00	0.00
7,300.0	8.02	99.89	7,248.5	-129.4	742.1	-136.5	0.00	0.00	0.00
7,400.0	8.02	99.89	7,347.5	-131.8	755.8	-139.1	0.00	0.00	0.00
7,500.0	8.02	99.89	7,446.6	-134.2	769.5	-141.6	0.00	0.00	0.00
7,600.0	8.02	99.89	7,545.6	-136.6	783.3	-144.1	0.00	0.00	0.00
7,700.0	8.02	99.89	7,644.6	-139.0	797.0	-146.7	0.00	0.00	0.00
7,756.7	8.02	99.89	7,700.7	-140.4	804.8	-148.1	0.00	0.00	0.00
DROP - -1.00									
7,800.0	7.59	99.89	7,743.6	-141.4	810.6	-149.2	1.00	-1.00	0.00
7,900.0	6.59	99.89	7,842.9	-143.5	822.8	-151.4	1.00	-1.00	0.00
8,000.0	5.59	99.89	7,942.3	-145.3	833.2	-153.3	1.00	-1.00	0.00
8,100.0	4.59	99.89	8,041.9	-146.8	841.9	-154.9	1.00	-1.00	0.00
8,200.0	3.59	99.89	8,141.7	-148.1	849.0	-156.2	1.00	-1.00	0.00
8,300.0	2.59	99.89	8,241.5	-149.0	854.3	-157.2	1.00	-1.00	0.00
8,400.0	1.59	99.89	8,341.5	-149.6	857.8	-157.9	1.00	-1.00	0.00
8,500.0	0.59	99.89	8,441.4	-149.9	859.7	-158.2	1.00	-1.00	0.00
8,558.6	0.00	0.00	8,500.0	-150.0	860.0	-158.2	1.00	-1.00	0.00
HOLD - 3438.7 at 8558.6 MD									
8,600.0	0.00	0.00	8,541.4	-150.0	860.0	-158.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,641.4	-150.0	860.0	-158.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,741.4	-150.0	860.0	-158.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,841.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,941.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,041.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,141.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,241.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,341.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,441.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,541.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,641.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,741.4	-150.0	860.0	-158.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,841.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,941.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,041.4	-150.0	860.0	-158.2	0.00	0.00	0.00

Intrepid
Planning Report

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Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
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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)
10,200.0	0.00	0.00	10,141.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,241.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,341.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,441.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,541.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,641.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,741.4	-150.0	860.0	-158.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,841.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,941.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,041.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,141.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,241.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,341.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,441.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,541.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,641.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,741.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,900.0	0.00	0.00	11,841.4	-150.0	860.0	-158.2	0.00	0.00	0.00
11,997.3	0.00	0.00	11,938.7	-150.0	860.0	-158.2	0.00	0.00	0.00
KOP - Build 10.00									
12,000.0	0.27	6.23	11,941.4	-150.0	860.0	-158.2	10.00	10.00	0.00
12,050.0	5.27	6.23	11,991.4	-147.6	860.3	-155.8	10.00	10.00	0.00
12,100.0	10.27	6.23	12,040.9	-140.9	861.0	-149.1	10.00	10.00	0.00
12,150.0	15.27	6.23	12,089.6	-129.9	862.2	-138.2	10.00	10.00	0.00
12,200.0	20.27	6.23	12,137.2	-114.7	863.9	-123.0	10.00	10.00	0.00
12,250.0	25.27	6.23	12,183.3	-95.5	866.0	-103.8	10.00	10.00	0.00
12,300.0	30.27	6.23	12,227.5	-72.3	868.5	-80.7	10.00	10.00	0.00
12,350.0	35.27	6.23	12,269.6	-45.4	871.4	-53.8	10.00	10.00	0.00
12,400.0	40.27	6.23	12,309.1	-15.0	874.7	-23.4	10.00	10.00	0.00
12,450.0	45.27	6.23	12,345.8	18.8	878.4	10.3	10.00	10.00	0.00
12,500.0	50.27	6.23	12,379.4	55.5	882.4	47.1	10.00	10.00	0.00
12,550.0	55.27	6.23	12,409.6	95.1	886.8	86.6	10.00	10.00	0.00
12,600.0	60.27	6.23	12,436.3	137.1	891.3	128.6	10.00	10.00	0.00
12,650.0	65.27	6.23	12,459.1	181.3	896.2	172.7	10.00	10.00	0.00
12,700.0	70.27	6.23	12,478.0	227.3	901.2	218.7	10.00	10.00	0.00
12,750.0	75.27	6.23	12,492.8	274.8	906.4	266.1	10.00	10.00	0.00
12,800.0	80.27	6.23	12,503.4	323.3	911.7	314.6	10.00	10.00	0.00
12,850.0	85.27	6.23	12,509.7	372.6	917.1	363.8	10.00	10.00	0.00
12,902.3	90.50	6.23	12,511.6	424.5	922.7	415.7	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO -89.97									
13,000.0	90.50	4.28	12,510.8	521.9	931.7	512.9	2.00	0.00	-2.00
13,100.0	90.50	2.28	12,509.9	621.7	937.4	612.7	2.00	0.00	-2.00
13,200.0	90.50	0.28	12,509.0	721.7	939.6	712.6	2.00	0.00	-2.00
13,241.4	90.50	359.45	12,508.7	763.1	939.5	754.0	2.00	0.00	-2.00
Start 746.0 hold at 13241.4 MD									
13,300.0	90.50	359.45	12,508.2	821.6	938.9	812.6	0.00	0.00	0.00
13,400.0	90.50	359.45	12,507.3	921.6	938.0	912.6	0.00	0.00	0.00
13,500.0	90.50	359.45	12,506.4	1,021.6	937.0	1,012.6	0.00	0.00	0.00
13,600.0	90.50	359.45	12,505.5	1,121.6	936.0	1,112.6	0.00	0.00	0.00
13,700.0	90.50	359.45	12,504.7	1,221.6	935.1	1,212.6	0.00	0.00	0.00
13,800.0	90.50	359.45	12,503.8	1,321.6	934.1	1,312.6	0.00	0.00	0.00
13,900.0	90.50	359.45	12,502.9	1,421.6	933.1	1,412.6	0.00	0.00	0.00
13,987.4	90.50	359.45	12,502.2	1,509.0	932.3	1,500.0	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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)
Start DLS 2.00 TFO 0.83									
14,000.0	90.75	359.45	12,502.0	1,521.6	932.2	1,512.6	2.00	2.00	0.03
14,012.4	91.00	359.45	12,501.8	1,534.0	932.1	1,525.0	2.00	2.00	0.03
Start 2975.5 hold at 14012.4 MD									
14,100.0	91.00	359.45	12,500.3	1,621.6	931.2	1,612.6	0.00	0.00	0.00
14,200.0	91.00	359.45	12,498.6	1,721.5	930.3	1,712.5	0.00	0.00	0.00
14,300.0	91.00	359.45	12,496.8	1,821.5	929.3	1,812.5	0.00	0.00	0.00
14,400.0	91.00	359.45	12,495.1	1,921.5	928.4	1,912.5	0.00	0.00	0.00
14,500.0	91.00	359.45	12,493.3	2,021.5	927.4	2,012.5	0.00	0.00	0.00
14,600.0	91.00	359.45	12,491.6	2,121.5	926.5	2,112.5	0.00	0.00	0.00
14,700.0	91.00	359.45	12,489.8	2,221.4	925.5	2,212.5	0.00	0.00	0.00
14,800.0	91.00	359.45	12,488.1	2,321.4	924.6	2,312.4	0.00	0.00	0.00
14,900.0	91.00	359.45	12,486.3	2,421.4	923.6	2,412.4	0.00	0.00	0.00
15,000.0	91.00	359.45	12,484.6	2,521.4	922.7	2,512.4	0.00	0.00	0.00
15,100.0	91.00	359.45	12,482.9	2,621.4	921.7	2,612.4	0.00	0.00	0.00
15,200.0	91.00	359.45	12,481.1	2,721.3	920.7	2,712.4	0.00	0.00	0.00
15,300.0	91.00	359.45	12,479.4	2,821.3	919.8	2,812.4	0.00	0.00	0.00
15,400.0	91.00	359.45	12,477.6	2,921.3	918.8	2,912.4	0.00	0.00	0.00
15,500.0	91.00	359.45	12,475.9	3,021.3	917.9	3,012.3	0.00	0.00	0.00
15,600.0	91.00	359.45	12,474.1	3,121.3	916.9	3,112.3	0.00	0.00	0.00
15,700.0	91.00	359.45	12,472.4	3,221.3	916.0	3,212.3	0.00	0.00	0.00
15,800.0	91.00	359.45	12,470.6	3,321.2	915.0	3,312.3	0.00	0.00	0.00
15,900.0	91.00	359.45	12,468.9	3,421.2	914.1	3,412.3	0.00	0.00	0.00
16,000.0	91.00	359.45	12,467.1	3,521.2	913.1	3,512.3	0.00	0.00	0.00
16,100.0	91.00	359.45	12,465.4	3,621.2	912.2	3,612.2	0.00	0.00	0.00
16,200.0	91.00	359.45	12,463.7	3,721.2	911.2	3,712.2	0.00	0.00	0.00
16,300.0	91.00	359.45	12,461.9	3,821.1	910.3	3,812.2	0.00	0.00	0.00
16,400.0	91.00	359.45	12,460.2	3,921.1	909.3	3,912.2	0.00	0.00	0.00
16,500.0	91.00	359.45	12,458.4	4,021.1	908.4	4,012.2	0.00	0.00	0.00
16,600.0	91.00	359.45	12,456.7	4,121.1	907.4	4,112.2	0.00	0.00	0.00
16,700.0	91.00	359.45	12,454.9	4,221.1	906.5	4,212.2	0.00	0.00	0.00
16,800.0	91.00	359.45	12,453.2	4,321.0	905.5	4,312.1	0.00	0.00	0.00
16,900.0	91.00	359.45	12,451.4	4,421.0	904.5	4,412.1	0.00	0.00	0.00
16,987.9	91.00	359.45	12,449.9	4,508.9	903.7	4,500.0	0.00	0.00	0.00
Start DLS 2.00 TFO -0.29									
17,000.0	91.24	359.45	12,449.7	4,521.0	903.6	4,512.1	2.00	2.00	-0.01
17,027.9	91.80	359.45	12,448.9	4,548.9	903.3	4,540.0	2.00	2.00	-0.01
Start 2966.5 hold at 17027.9 MD									
17,100.0	91.80	359.45	12,446.7	4,620.9	902.6	4,612.1	0.00	0.00	0.00
17,200.0	91.80	359.45	12,443.5	4,720.9	901.7	4,712.0	0.00	0.00	0.00
17,300.0	91.80	359.45	12,440.4	4,820.8	900.7	4,812.0	0.00	0.00	0.00
17,400.0	91.80	359.45	12,437.2	4,920.8	899.8	4,911.9	0.00	0.00	0.00
17,500.0	91.80	359.45	12,434.1	5,020.7	898.8	5,011.9	0.00	0.00	0.00
17,600.0	91.80	359.45	12,431.0	5,120.7	897.8	5,111.8	0.00	0.00	0.00
17,700.0	91.80	359.45	12,427.8	5,220.6	896.9	5,211.8	0.00	0.00	0.00
17,800.0	91.80	359.45	12,424.7	5,320.6	895.9	5,311.7	0.00	0.00	0.00
17,900.0	91.80	359.45	12,421.5	5,420.5	895.0	5,411.7	0.00	0.00	0.00
18,000.0	91.80	359.45	12,418.4	5,520.5	894.0	5,511.6	0.00	0.00	0.00
18,100.0	91.80	359.45	12,415.3	5,620.4	893.0	5,611.6	0.00	0.00	0.00
18,200.0	91.80	359.45	12,412.1	5,720.3	892.1	5,711.5	0.00	0.00	0.00
18,300.0	91.80	359.45	12,409.0	5,820.3	891.1	5,811.5	0.00	0.00	0.00
18,400.0	91.80	359.45	12,405.8	5,920.2	890.2	5,911.4	0.00	0.00	0.00
18,500.0	91.80	359.45	12,402.7	6,020.2	889.2	6,011.4	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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)
18,600.0	91.80	359.45	12,399.5	6,120.1	888.2	6,111.3	0.00	0.00	0.00
18,700.0	91.80	359.45	12,396.4	6,220.1	887.3	6,211.3	0.00	0.00	0.00
18,800.0	91.80	359.45	12,393.3	6,320.0	886.3	6,311.2	0.00	0.00	0.00
18,900.0	91.80	359.45	12,390.1	6,420.0	885.4	6,411.2	0.00	0.00	0.00
19,000.0	91.80	359.45	12,387.0	6,519.9	884.4	6,511.1	0.00	0.00	0.00
19,100.0	91.80	359.45	12,383.8	6,619.9	883.4	6,611.1	0.00	0.00	0.00
19,200.0	91.80	359.45	12,380.7	6,719.8	882.5	6,711.0	0.00	0.00	0.00
19,300.0	91.80	359.45	12,377.6	6,819.8	881.5	6,811.0	0.00	0.00	0.00
19,400.0	91.80	359.45	12,374.4	6,919.7	880.6	6,910.9	0.00	0.00	0.00
19,500.0	91.80	359.45	12,371.3	7,019.6	879.6	7,010.9	0.00	0.00	0.00
19,600.0	91.80	359.45	12,368.1	7,119.6	878.7	7,110.8	0.00	0.00	0.00
19,700.0	91.80	359.45	12,365.0	7,219.5	877.7	7,210.8	0.00	0.00	0.00
19,800.0	91.80	359.45	12,361.9	7,319.5	876.7	7,310.7	0.00	0.00	0.00
19,900.0	91.80	359.45	12,358.7	7,419.4	875.8	7,410.7	0.00	0.00	0.00
19,994.4	91.80	359.45	12,355.7	7,513.8	874.9	7,505.0	0.00	0.00	0.00
Start DLS 2.00 TFO 179.72									
20,000.0	91.69	359.45	12,355.6	7,519.4	874.8	7,510.6	2.00	-2.00	0.01
20,034.3	91.00	359.45	12,354.8	7,553.7	874.5	7,544.9	2.00	-2.00	0.01
Start 955.2 hold at 20034.3 MD									
20,100.0	91.00	359.45	12,353.6	7,619.4	873.9	7,610.6	0.00	0.00	0.00
20,200.0	91.00	359.45	12,351.9	7,719.3	872.9	7,710.6	0.00	0.00	0.00
20,300.0	91.00	359.45	12,350.1	7,819.3	872.0	7,810.6	0.00	0.00	0.00
20,400.0	91.00	359.45	12,348.4	7,919.3	871.0	7,910.6	0.00	0.00	0.00
20,500.0	91.00	359.45	12,346.6	8,019.3	870.0	8,010.6	0.00	0.00	0.00
20,600.0	91.00	359.45	12,344.9	8,119.3	869.1	8,110.5	0.00	0.00	0.00
20,700.0	91.00	359.45	12,343.1	8,219.2	868.1	8,210.5	0.00	0.00	0.00
20,800.0	91.00	359.45	12,341.4	8,319.2	867.2	8,310.5	0.00	0.00	0.00
20,900.0	91.00	359.45	12,339.6	8,419.2	866.2	8,410.5	0.00	0.00	0.00
20,989.5	91.00	359.45	12,338.1	8,508.7	865.4	8,500.0	0.00	0.00	0.00
Start DLS 2.00 TFO -179.81									
21,000.0	90.79	359.45	12,337.9	8,519.2	865.3	8,510.5	2.00	-2.00	-0.01
21,014.8	90.50	359.45	12,337.7	8,534.0	865.1	8,525.3	2.00	-2.00	-0.01
Start 1793.1 hold at 21014.8 MD									
21,100.0	90.50	359.45	12,337.0	8,619.2	864.3	8,610.5	0.00	0.00	0.00
21,200.0	90.50	359.45	12,336.1	8,719.2	863.4	8,710.5	0.00	0.00	0.00
21,300.0	90.50	359.45	12,335.3	8,819.2	862.4	8,810.5	0.00	0.00	0.00
21,400.0	90.50	359.45	12,334.4	8,919.1	861.5	8,910.5	0.00	0.00	0.00
21,500.0	90.50	359.45	12,333.5	9,019.1	860.5	9,010.5	0.00	0.00	0.00
21,600.0	90.50	359.45	12,332.7	9,119.1	859.5	9,110.5	0.00	0.00	0.00
21,700.0	90.50	359.45	12,331.8	9,219.1	858.6	9,210.5	0.00	0.00	0.00
21,800.0	90.50	359.45	12,330.9	9,319.1	857.6	9,310.4	0.00	0.00	0.00
21,900.0	90.50	359.45	12,330.1	9,419.1	856.7	9,410.4	0.00	0.00	0.00
22,000.0	90.50	359.45	12,329.2	9,519.1	855.7	9,510.4	0.00	0.00	0.00
22,100.0	90.50	359.45	12,328.3	9,619.1	854.8	9,610.4	0.00	0.00	0.00
22,200.0	90.50	359.45	12,327.5	9,719.1	853.8	9,710.4	0.00	0.00	0.00
22,300.0	90.50	359.45	12,326.6	9,819.1	852.9	9,810.4	0.00	0.00	0.00
22,400.0	90.50	359.45	12,325.7	9,919.1	851.9	9,910.4	0.00	0.00	0.00
22,500.0	90.50	359.45	12,324.9	10,019.1	850.9	10,010.4	0.00	0.00	0.00
22,600.0	90.50	359.45	12,324.0	10,119.0	850.0	10,110.4	0.00	0.00	0.00
22,700.0	90.50	359.45	12,323.1	10,219.0	849.0	10,210.4	0.00	0.00	0.00
22,808.0	90.50	359.45	12,322.2	10,327.0	848.0	10,318.4	0.00	0.00	0.00
TD at 22808.0									

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #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 (Yada Fed Com - plan hits target center - Rectangle (sides W100.0 H1,818.4 D30.0)	-0.50	359.45	12,322.2	10,327.0	848.0	436,364.00	848,468.00	32° 11' 44.678 N	103° 20' 25.649 W
8500'VS (Yada Fed Cc - plan hits target center - Rectangle (sides W100.0 H1,000.0 D30.0)	-1.00	359.45	12,338.1	8,508.7	865.4	434,545.70	848,485.38	32° 11' 26.685 N	103° 20' 25.642 W
7500'VS (Yada Fed Cc - plan misses target center by 0.4usft at 19989.3usft MD (12355.9 TVD, 7508.7 N, 874.9 E) - Rectangle (sides W100.0 H3,000.0 D30.0)	-1.80	359.45	12,355.5	7,508.7	874.9	433,545.70	848,494.94	32° 11' 16.790 N	103° 20' 25.638 W
LTP (Yada Fed Com # - plan misses target center by 89.7usft at 22700.0usft MD (12323.1 TVD, 10219.0 N, 849.0 E) - Point	0.00	0.00	12,411.9	10,232.0	849.0	436,269.00	848,469.00	32° 11' 43.738 N	103° 20' 25.648 W
4500'VS (Yada Fed Cc - plan misses target center by 0.1usft at 16987.9usft MD (12449.9 TVD, 4508.9 N, 903.7 E) - Rectangle (sides W100.0 H3,000.0 D30.0)	-1.00	359.45	12,449.8	4,508.9	903.6	430,545.90	848,523.62	32° 10' 47.105 N	103° 20' 25.627 W
1500'VS (Yada Fed Cc - plan hits target center - Rectangle (sides W100.0 H1,640.0 D30.0)	-0.50	359.45	12,502.2	1,509.0	932.3	427,546.00	848,552.30	32° 10' 17.420 N	103° 20' 25.615 W
FTP (Yada Fed Com # - plan misses target center by 290.4usft at 12500.0usft MD (12379.4 TVD, 55.5 N, 882.4 E) - Point	0.00	0.00	12,592.0	-131.0	948.0	425,906.00	848,568.00	32° 10' 1.191 N	103° 20' 25.609 W

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #222H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3281.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3281.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,031.0	1,031.0	Rustler Anhydrite			
1,252.0	1,252.0	Top Salt			
4,809.1	4,782.0	Base Salt			
5,001.0	4,972.0	Delaware Mountain Gp			
5,006.1	4,977.0	Lamar			
5,027.3	4,998.0	Bell Canyon			
5,047.5	5,018.0	Ramsey Sand			
5,999.8	5,961.0	Cherry Canyon			
7,456.0	7,403.0	Brushy Canyon			
8,804.6	8,746.0	Bone Spring Lime			
8,842.3	8,783.7	Upper Avalon			
9,043.6	8,985.0	Middle Avalon			
9,706.6	9,648.0	Lower Avalon			
10,055.3	9,996.7	1st Bone Spring Sand			
10,373.9	10,315.3	2nd Bone Spring Carb			
10,655.9	10,597.3	2nd Bone Spring Sand			
11,129.6	11,071.0	3rd Bone Spring Carb			
11,694.3	11,635.7	3rd Bone Spring Sand			
11,953.3	11,894.7	3rd BS W Sand			
11,999.3	11,940.7	Wolfcamp A X Sand			
12,039.9	11,981.3	Wolfcamp A Y Sand			
12,109.6	12,050.3	Wolfcamp A Lower			
12,436.3	12,336.0	Wolfcamp B			
12,757.5	12,494.7	Wolfcamp B1			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00
2,301.9	2,299.3	-9.6	55.2	HOLD - 5454.8 at 2301.9 MD
7,756.7	7,700.7	-140.4	804.8	DROP - -1.00
8,558.6	8,500.0	-150.0	860.0	HOLD - 3438.7 at 8558.6 MD
11,997.3	11,938.7	-150.0	860.0	KOP - Build 10.00
12,902.3	12,511.6	424.5	922.7	EOC/TRN - DLS 2.00 TFO -89.97
13,241.4	12,508.7	763.1	939.5	Start 746.0 hold at 13241.4 MD
13,987.4	12,502.2	1,509.0	932.3	Start DLS 2.00 TFO 0.83
14,012.4	12,501.8	1,534.0	932.1	Start 2975.5 hold at 14012.4 MD
16,987.9	12,449.9	4,508.9	903.7	Start DLS 2.00 TFO -0.29
17,027.9	12,448.9	4,548.9	903.3	Start 2966.5 hold at 17027.9 MD
19,994.4	12,355.7	7,513.8	874.9	Start DLS 2.00 TFO 179.72
20,034.3	12,354.8	7,553.7	874.5	Start 955.2 hold at 20034.3 MD
20,989.5	12,338.1	8,508.7	865.4	Start DLS 2.00 TFO -179.81
21,014.8	12,337.7	8,534.0	865.1	Start 1793.1 hold at 21014.8 MD
22,808.0	12,322.2	10,327.0	848.0	TD at 22808.0

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 223417

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 223417
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/5/2023