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

Sundry Print Report

05/01/2023

Well Name: SEINFELD FED UNIT YADA

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

County or Parish/State:

Well Number: 223H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138896

Unit or CA Name:

Unit or CA Number: NMNM141169X

US Well Number: 3002550987

Well Status: Approved Application for Permit to Drill

Operator: TAP ROCK OPERATING LLC

Notice of Intent

Sundry ID: 2725406

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/12/2023

Time Sundry Submitted: 01:09

Date proposed operation will begin: 04/12/2023

Procedure Description: For the referenced well, Tap Rock requests: 1. To change the referenced well name from Yada Fed Com 223H to: Seinfeld Federal Unit Yada 223H. See attached updated C-102. 2. To change modify OH size and casing/cement design. See attached updated drilling plans. 3. To change the SHL From: 272' FSL, 1393' FEL, Section 35, T-24S-R35E, Lea County, NM To: 273' FSL, 1441' FEL, Section 35, T-24S-R35E, Lea County, NM See attached updated drilling plans, directional plans, and C-102.

*This sundry has already been approved by OCD; resubmitting to include BLM COAs

NOI Attachments

Procedure Description

Seinfeld_Federal_Unit_Yada_223H_Plan_2_20230412130816.pdf

LO_SEINFELD_FEDERAL_UNIT_YADA_223H_REV1_S_FINAL_20230412130800.pdf

APD_Drilling_Plan___Yada_Fed_Com_223H_Sundry_04_12_23_20230412130730.pdf

Well Name: SEINFELD FED UNIT YADA

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

County or Parish/State:

Well Number: 223H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM138896

Unit or CA Name:

Unit or CA Number: NMNM141169X

US Well Number: 3002550987

Well Status: Approved Application for Permit to Drill

Operator: TAP ROCK OPERATING LLC

Conditions of Approval

Additional

Sec_25_24S_35E_NMP__Sundry_2725406_Seinfeld_Federal_Unit_Yada_223H_Lea_Tap_Rock_COAs_20230428142418.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 01:08 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: 04/28/2023

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
30-025-50987	98098	WC-025 G-09 S243532M:WOLFBONE

[4]Property Code	[5]Property Name	[6]Well Number
333091	SEINFELD FEDERAL UNIT YADA	223H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372043	TAP ROCK OPERATING, LLC.	3271'

[10]Surface Location

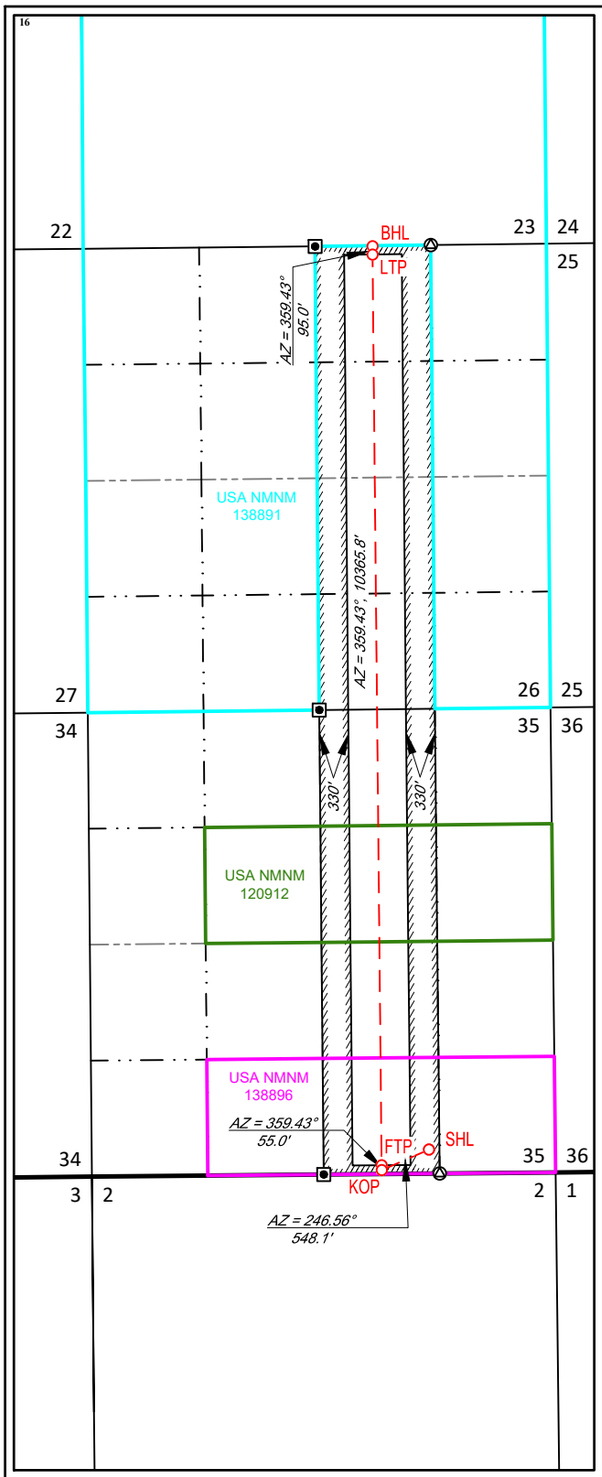
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	24-S	35-E	–	273'	SOUTH	1441'	EAST	LEA

[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
B	26	24-S	35-E	–	5'	NORTH	1980'	EAST	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)
273' FSL - SEC. 35
1441' FEL - SEC. 35
X=850424 Y=426096
LAT.: N 32.1674714
LONG.: W 103.3344428

KICK OFF POINT (KOP)
45' FSL - SEC. 35
1980' FEL - SEC. 35
X=849888 Y=425863
LAT.: N 32.1668454
LONG.: W 103.3361842

FIRST TAKE POINT (FTP)
100' FSL - SEC. 35
1980' FEL - SEC. 35
X=849887 Y=425918
LAT.: N 32.1669966
LONG.: W 103.3361844

LAST TAKE POINT (LTP)
100' FNL - SEC. 26
1980' FEL - SEC. 26
X=849783 Y=436283
LAT.: N 32.1954884
LONG.: W 103.3362088

BOTTOM HOLE LOCATION (BHL)
5' FNL - SEC. 26
1980' FEL - SEC. 26
X=849782 Y=436378
LAT.: N 32.1957495
LONG.: W 103.3362090

[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

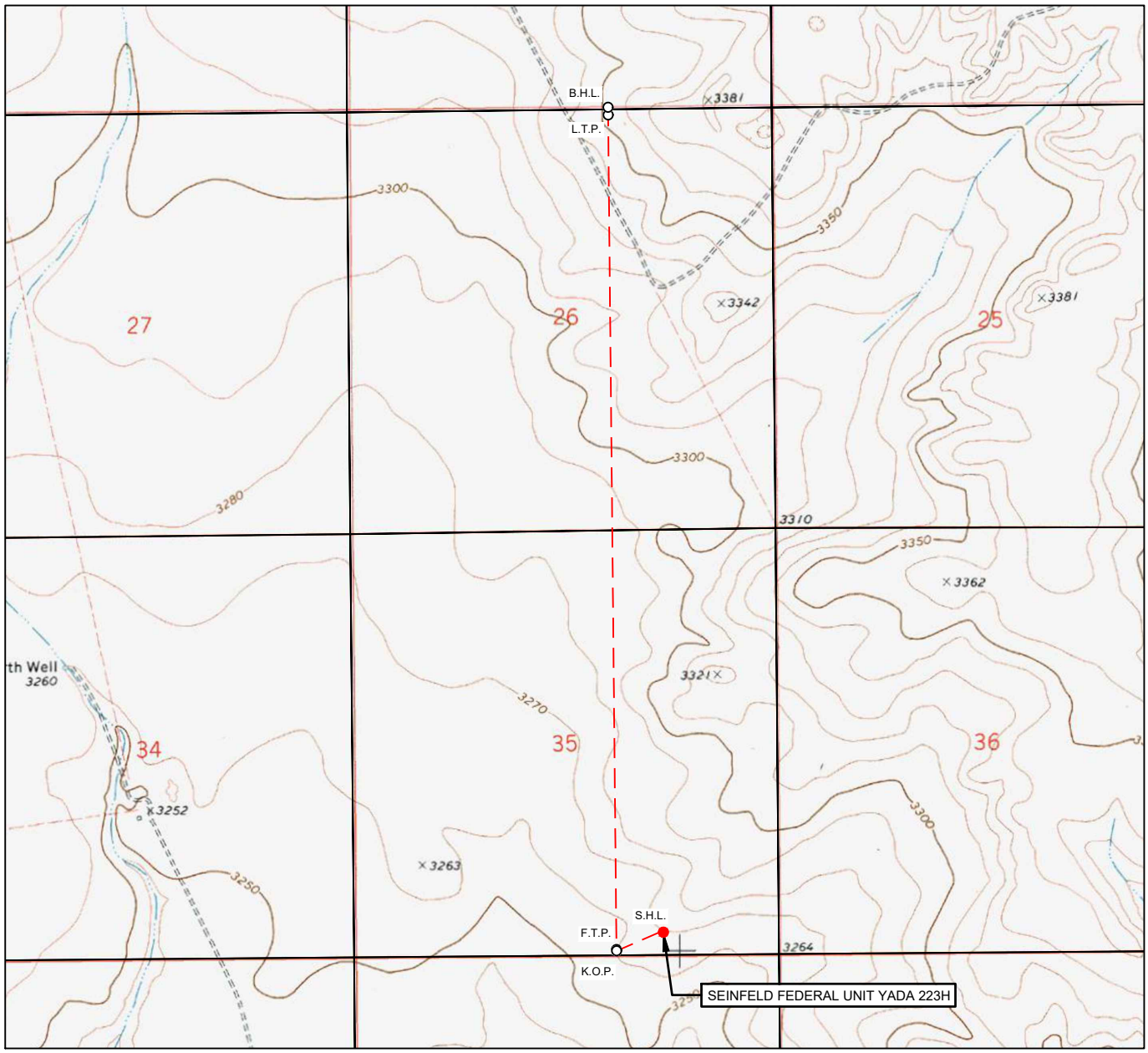
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\TAPROCK\YADA_UNIT\FINAL_PRODUCTS\LO_SEINFELD_FEDERAL_UNIT_YADA_223H_REV1.DWG 4/3/2023 3:50:22 PM mark.hamilton

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 223H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3271'
DESCRIPTION 273' FSL & 1441' FEL

LATITUDE N 32.1674714 LONGITUDE W 103.3344428

−N−

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

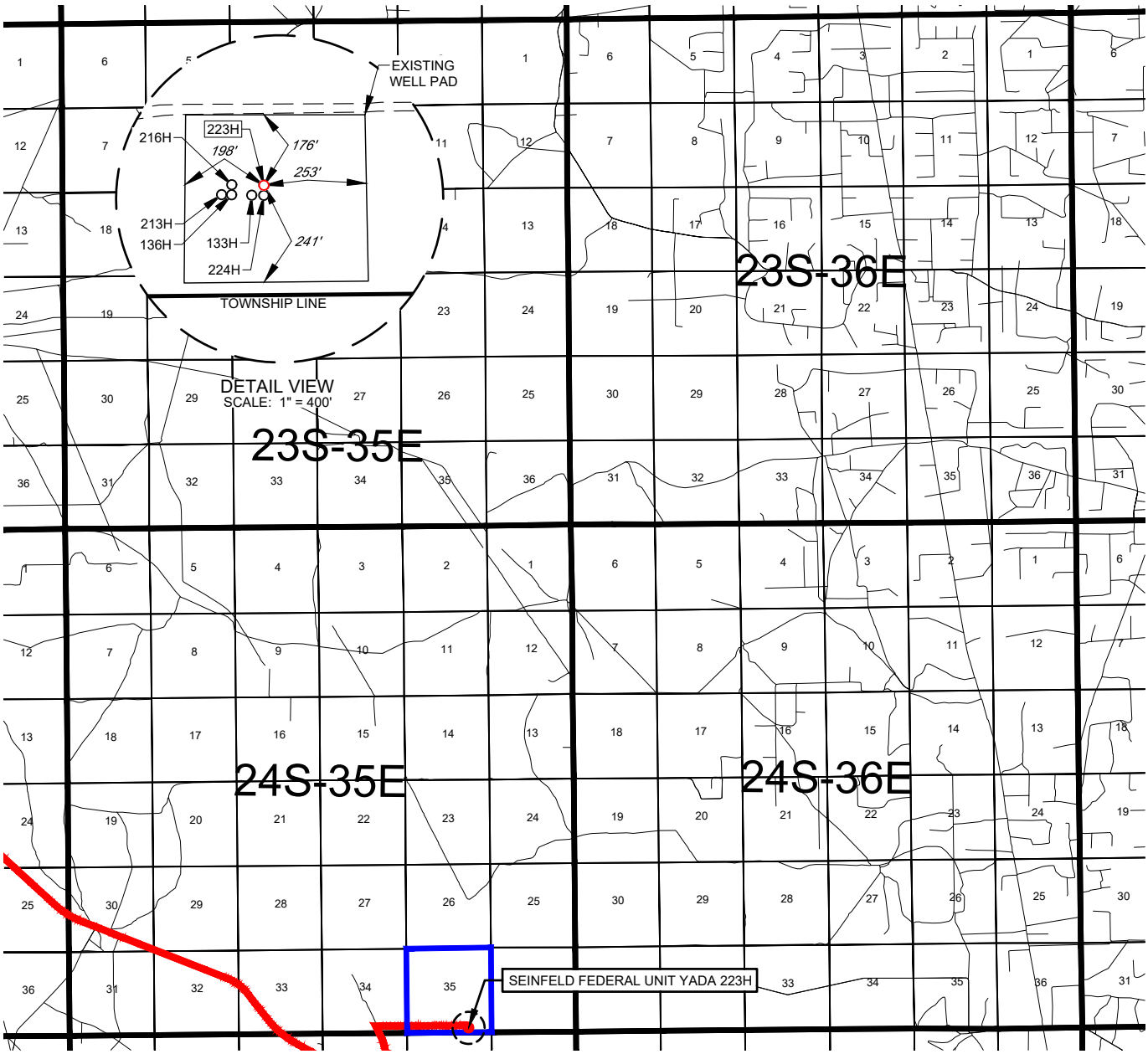
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
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

EXHIBIT 2

VICINITY MAP



TAP ROCK

LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 223H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 273' FSL & 1441' FEL

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. 1.1 MILES TO A POINT ±190 FEET NORTH 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.

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N

SCALE: 1" = 10000'

0' 5000' 10000'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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WWW.TOPOGRAPHIC.COM

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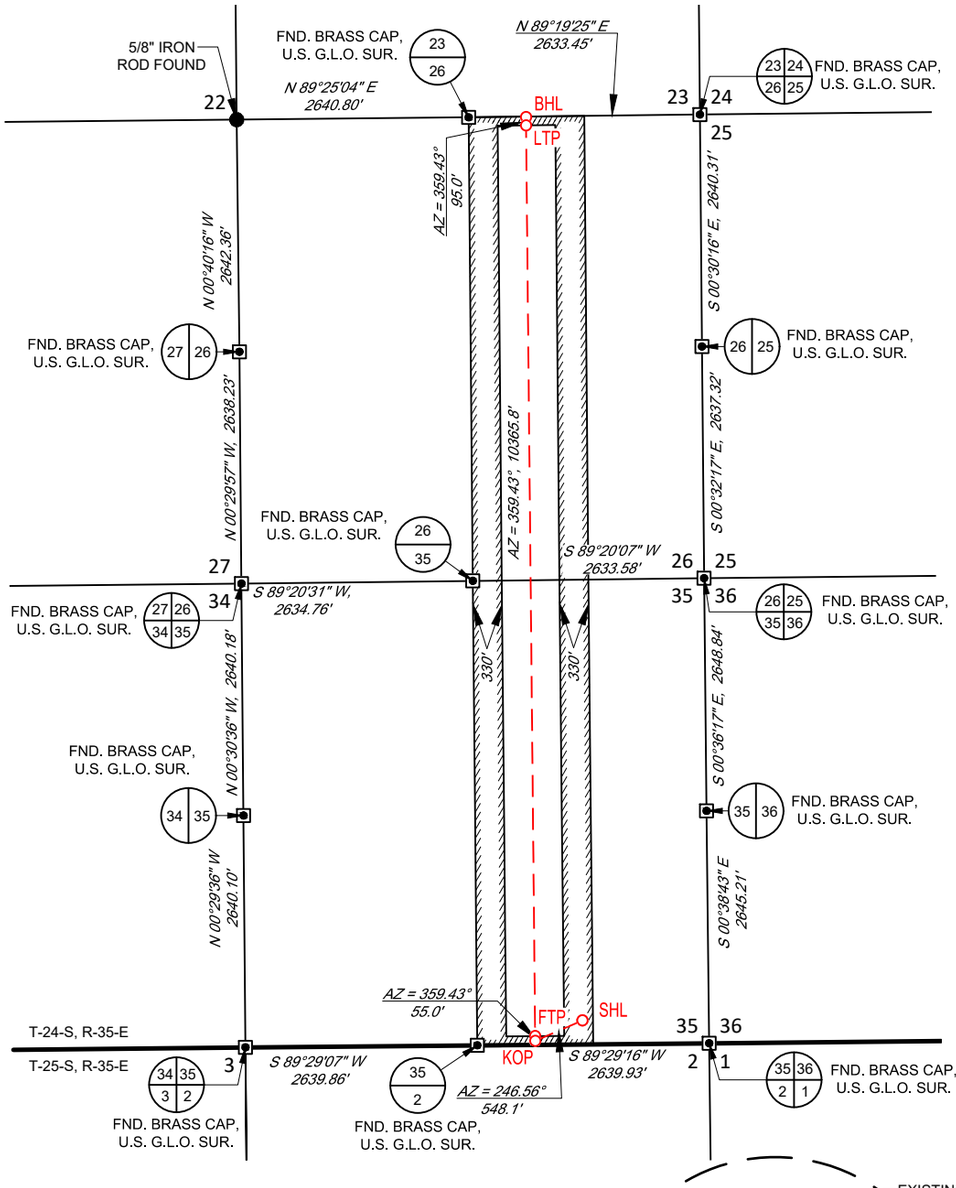
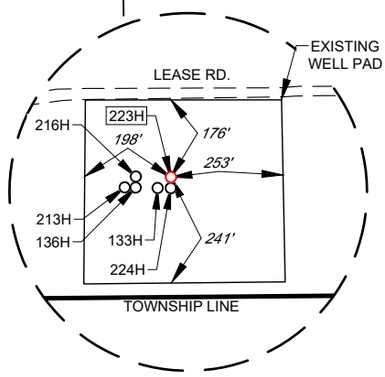
EXHIBIT 2A

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





DETAIL VIEW
SCALE: 1" = 400'

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

NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
272' FSL - SEC. 35
1441' FEL - SEC. 35
X=850424 Y=426096
LAT.: N 32.1674714
LONG.: W 103.3344428
KICK OFF POINT (KOP)
45' FSL - SEC. 35
1980' FEL - SEC. 35
X=849888 Y=425863
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BOTTOM HOLE LOCATION (BHL)
5' FNL - SEC. 26
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X=849782 Y=436378
LAT.: N 32.1957495
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LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 223H

SECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 273' FSL & 1441' FEL

DISTANCE & DIRECTION

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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.

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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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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EXHIBIT 2B

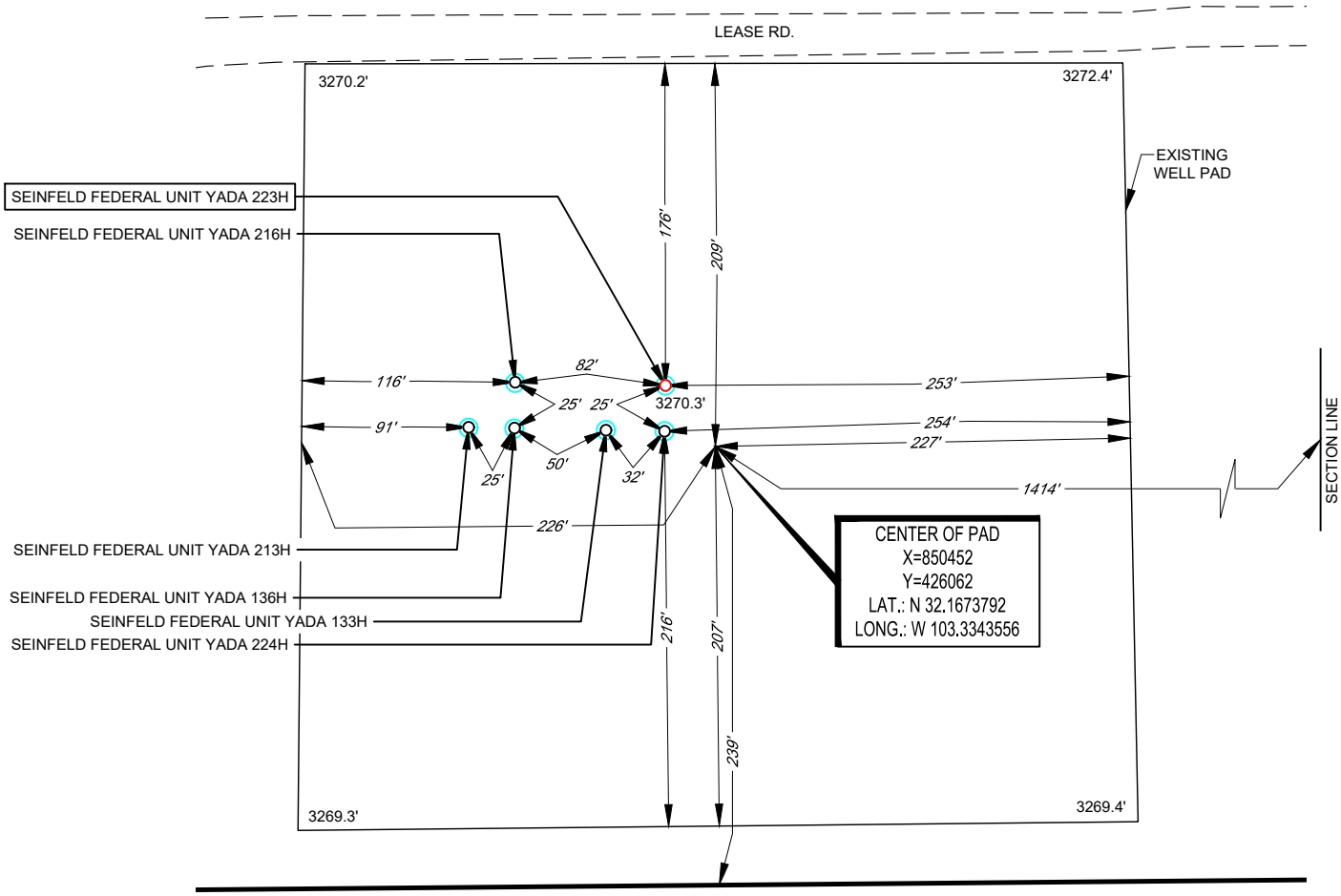
TAP ROCK

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

DETAIL VIEW
SCALE: 1" = 100'

LEGEND

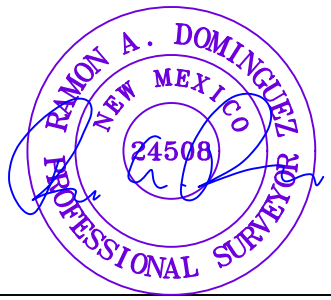
SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 223H

223H LATITUDE N 32.1674714 223H LONGITUDE W 103.3344428

CENTER OF PAD IS 239' FSL & 1414' FEL



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
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, Sec. 26
T. 24S., R. 35E Lea County, NM

Elevation above Sea Level: 3271'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	590	590	Salt	Salt
Top Salt	1,387	1,387	Salt	Salt
Base Salt	4,867	4,880	Salt	Salt
DMG	5,265	5,280	Sandstone	None
Lamar	5,275	5,291	Sandstone	Hydrocarbons
Bell Canyon	5,303	5,319	Sandstone	Hydrocarbons
Ramsey Sand	5,392	5,408	Sandstone	Hydrocarbons
Cherry Canyon	6,095	6,115	Limestone	Hydrocarbons
Brushy Canyon	7,511	7,536	Sandstone	Hydrocarbons
Bone Spring Lime	8,819	8,844	Carbonate	Hydrocarbons
Upper Avalon	8,891	8,916	Carbonate	Hydrocarbons
Middle Avalon	9,104	9,129	Carbonate	Hydrocarbons
Lower Avalon	9,753	9,779	Carbonate	Hydrocarbons
1st BS Sand	10,032	10,057	Sandstone	Hydrocarbons
2nd BS Carb	10,367	10,392	Carbonate	Hydrocarbons
2nd BS Sand	10,684	10,709	Sandstone	Hydrocarbons
3rd BS Carb	11,156	11,181	Carbonate	Hydrocarbons
3rd BS Sand	11,684	11,710	Sandstone	Hydrocarbons
Wolfcamp	11,984	12,009	Shale	Hydrocarbons
KOP	11,950	11,975	Carbonate	Hydrocarbons
TD	12,358	22,825	Carbonate	Hydrocarbons

2. Notable Zones

Wolfcamp B is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 22,825', 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 #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, 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	11875	7 5/8	API	No	0	11875	0	11850	L-80IC	29.7	BUTT	1.13	1.15	1.6
Production	6 3/4	11875	22825	5 1/2	NON API	No	0	11675	0	11650	P-110	20	TXP	1.13	1.15	1.6
				5 1/2	NON API	No	11675	22825	11650	12358	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	868	4.29	3724	10.5	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	10875	212	1.67	354	13.2	65%	C	5% NaCl
Production	Tail	11575	854	1.32	1127	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	11875	DBE	9.00	30 - 32	NC
Production	11875	22825	OBM	11.50	50 - 70	< 16

Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, 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 ≈ 7,390 psi. Expected bottom hole temperature is ≈195˚ F.

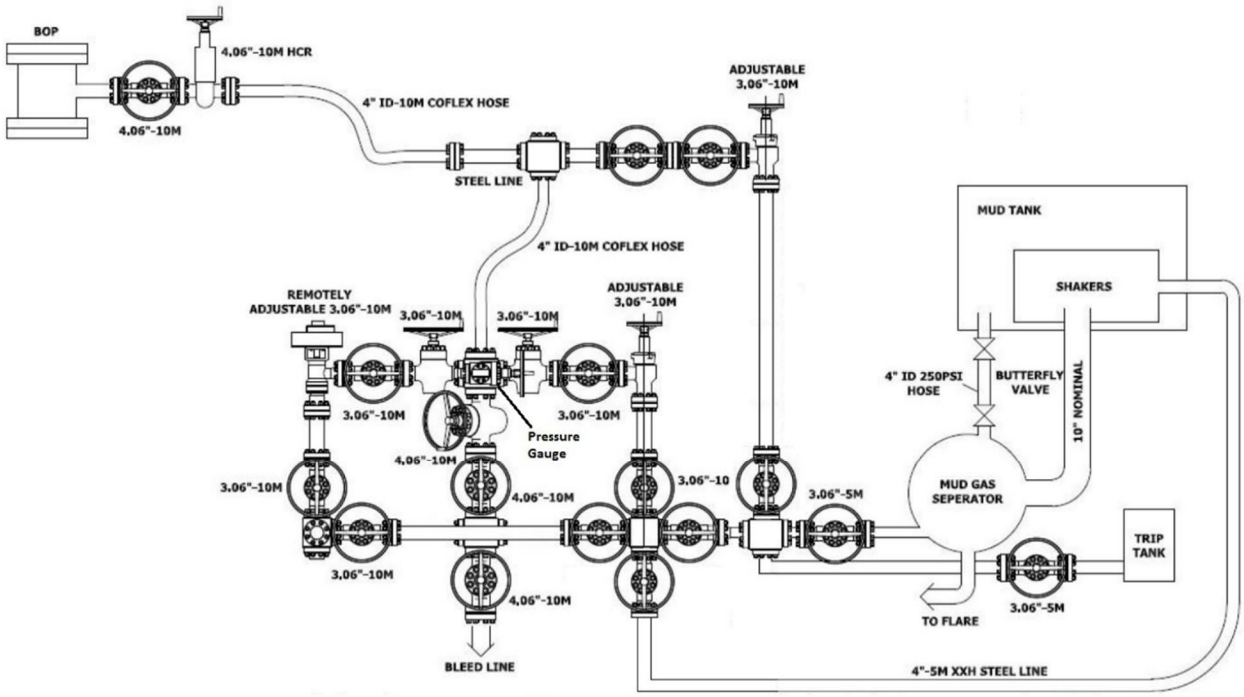
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp B formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety 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.

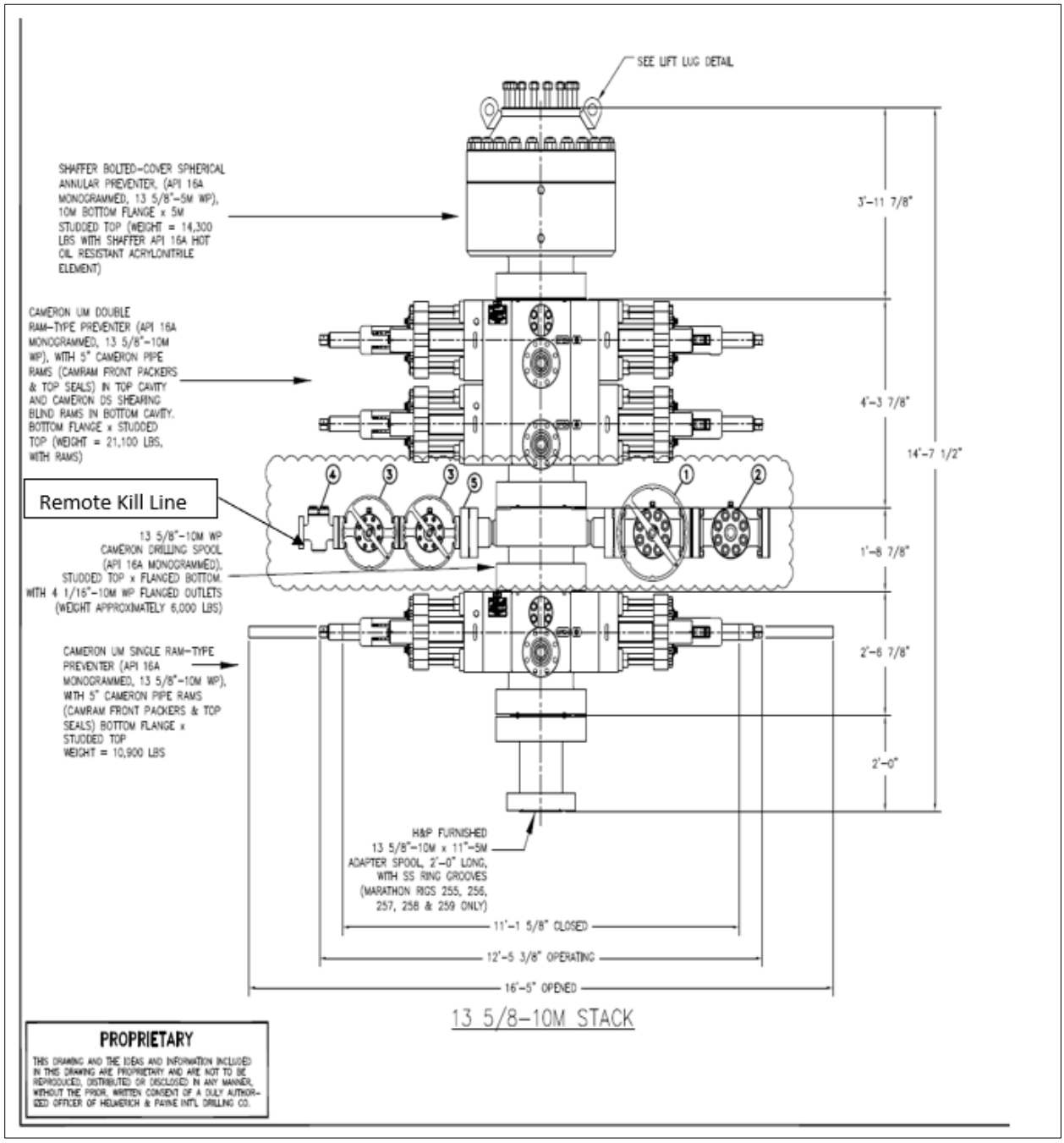
Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, Sec. 26
T. 24S., R. 35E Lea County, NM

10M Choke Layout



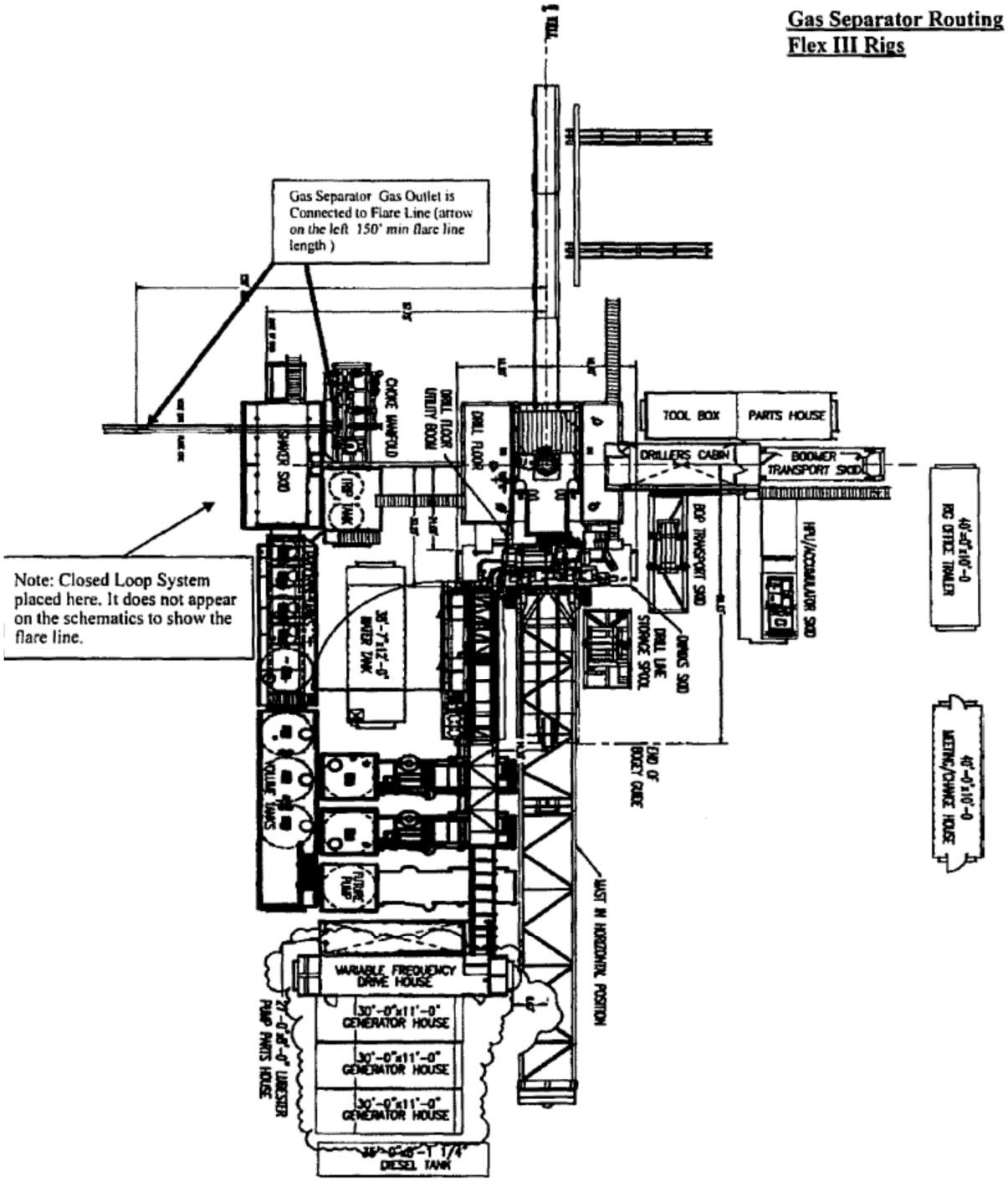
Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, Sec. 26
T. 24S., R. 35E Lea County, NM

10M BOP Stack with 5M Annular



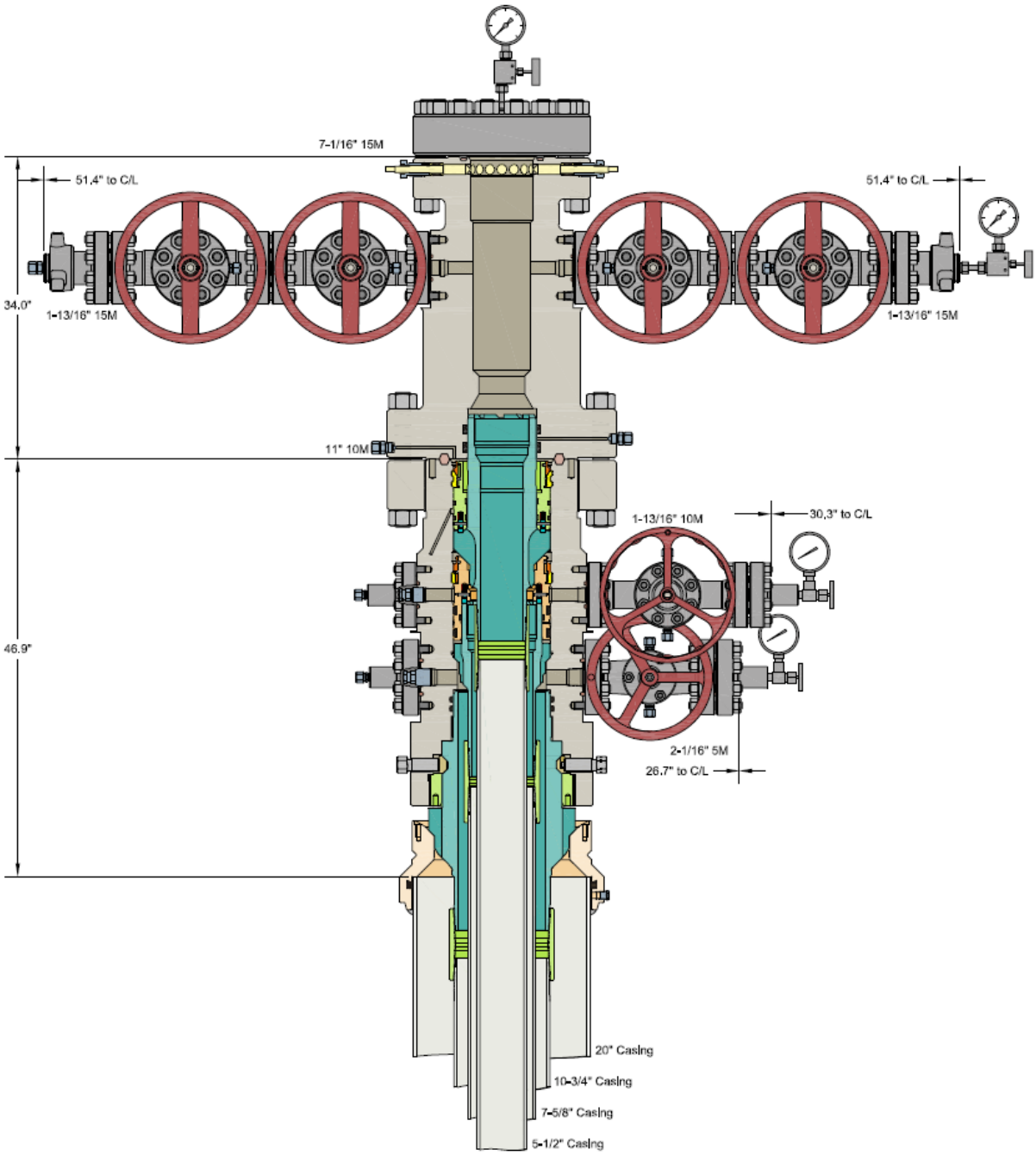
Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, Sec. 26
T. 24S., R. 35E Lea County, NM

Gas Separator Routing
Flex III Rigs



Drilling Operations Plan
Seinfeld Federal Unit Yada #223H
Tap Rock Operating, LLC
SHL 273' FSL & 1441' FEL, Sec. 35
BHL 5' FNL & 1980' FEL, 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 #223H

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 #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**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 #223H

Well Position	**+N/-S**	1.0 usft	**Northing:**	426,096.00 usft	**Latitude:**	32° 10' 2.901 N
	+E/-W	-674.0 usft	**Easting:**	850,424.00 usft	**Longitude:**	103° 20' 3.998 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,271.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/14/21	6.36	59.99	47,485.22213138

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	359.43

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

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,825.5	Plan #2 (OWB)	MWD OWSG MWD - Standard	

Intrepid
Planning Report

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Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
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Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**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	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,703.7	6.04	243.23	2,702.6	-14.3	-28.4	1.00	1.00	0.00	243.23	
6,891.8	6.04	243.23	6,867.4	-212.7	-421.6	0.00	0.00	0.00	0.00	
7,495.5	0.00	0.01	7,470.0	-227.0	-450.0	1.00	-1.00	0.00	180.00	
11,975.5	0.00	0.01	11,950.0	-227.0	-450.0	0.00	0.00	0.00	0.01	
12,425.5	45.00	344.90	12,355.1	-65.0	-493.7	10.00	10.00	0.00	344.90	
12,906.1	91.30	359.43	12,530.0	364.8	-543.3	10.00	9.63	3.02	19.70	
19,037.4	91.30	359.43	12,391.0	6,494.3	-604.6	0.00	0.00	0.00	0.00	6500'VS (Yada Fed
19,077.6	90.50	359.43	12,390.4	6,534.5	-605.0	2.00	-2.00	0.01	179.57	
22,825.5	90.50	359.43	12,357.9	10,282.0	-642.0	0.00	0.00	0.00	0.00	PBHL (Yada Fed Cc

Intrepid
Planning Report

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Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	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
1,800.0	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	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 1.00									
2,200.0	1.00	243.23	2,200.0	-0.4	-0.8	-0.4	1.00	1.00	0.00
2,300.0	2.00	243.23	2,300.0	-1.6	-3.1	-1.5	1.00	1.00	0.00
2,400.0	3.00	243.23	2,399.9	-3.5	-7.0	-3.5	1.00	1.00	0.00
2,500.0	4.00	243.23	2,499.7	-6.3	-12.5	-6.2	1.00	1.00	0.00
2,600.0	5.00	243.23	2,599.4	-9.8	-19.5	-9.6	1.00	1.00	0.00
2,703.7	6.04	243.23	2,702.6	-14.3	-28.4	-14.0	1.00	1.00	0.00
HOLD - 4188.1 at 2703.7 MD									
2,800.0	6.04	243.23	2,798.3	-18.9	-37.4	-18.5	0.00	0.00	0.00
2,900.0	6.04	243.23	2,897.8	-23.6	-46.8	-23.1	0.00	0.00	0.00
3,000.0	6.04	243.23	2,997.2	-28.3	-56.2	-27.8	0.00	0.00	0.00
3,100.0	6.04	243.23	3,096.7	-33.1	-65.6	-32.4	0.00	0.00	0.00
3,200.0	6.04	243.23	3,196.1	-37.8	-75.0	-37.1	0.00	0.00	0.00
3,300.0	6.04	243.23	3,295.6	-42.6	-84.4	-41.7	0.00	0.00	0.00
3,400.0	6.04	243.23	3,395.0	-47.3	-93.8	-46.4	0.00	0.00	0.00
3,500.0	6.04	243.23	3,494.5	-52.0	-103.1	-51.0	0.00	0.00	0.00
3,600.0	6.04	243.23	3,593.9	-56.8	-112.5	-55.6	0.00	0.00	0.00
3,700.0	6.04	243.23	3,693.4	-61.5	-121.9	-60.3	0.00	0.00	0.00
3,800.0	6.04	243.23	3,792.8	-66.2	-131.3	-64.9	0.00	0.00	0.00
3,900.0	6.04	243.23	3,892.2	-71.0	-140.7	-69.6	0.00	0.00	0.00
4,000.0	6.04	243.23	3,991.7	-75.7	-150.1	-74.2	0.00	0.00	0.00
4,100.0	6.04	243.23	4,091.1	-80.5	-159.5	-78.9	0.00	0.00	0.00
4,200.0	6.04	243.23	4,190.6	-85.2	-168.9	-83.5	0.00	0.00	0.00
4,300.0	6.04	243.23	4,290.0	-89.9	-178.3	-88.1	0.00	0.00	0.00
4,400.0	6.04	243.23	4,389.5	-94.7	-187.7	-92.8	0.00	0.00	0.00
4,500.0	6.04	243.23	4,488.9	-99.4	-197.0	-97.4	0.00	0.00	0.00
4,600.0	6.04	243.23	4,588.4	-104.1	-206.4	-102.1	0.00	0.00	0.00
4,700.0	6.04	243.23	4,687.8	-108.9	-215.8	-106.7	0.00	0.00	0.00
4,800.0	6.04	243.23	4,787.3	-113.6	-225.2	-111.4	0.00	0.00	0.00
4,900.0	6.04	243.23	4,886.7	-118.3	-234.6	-116.0	0.00	0.00	0.00
5,000.0	6.04	243.23	4,986.1	-123.1	-244.0	-120.6	0.00	0.00	0.00
5,100.0	6.04	243.23	5,085.6	-127.8	-253.4	-125.3	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 #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**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	6.04	243.23	5,185.0	-132.6	-262.8	-129.9	0.00	0.00	0.00
5,300.0	6.04	243.23	5,284.5	-137.3	-272.2	-134.6	0.00	0.00	0.00
5,400.0	6.04	243.23	5,383.9	-142.0	-281.6	-139.2	0.00	0.00	0.00
5,500.0	6.04	243.23	5,483.4	-146.8	-290.9	-143.9	0.00	0.00	0.00
5,600.0	6.04	243.23	5,582.8	-151.5	-300.3	-148.5	0.00	0.00	0.00
5,700.0	6.04	243.23	5,682.3	-156.2	-309.7	-153.1	0.00	0.00	0.00
5,800.0	6.04	243.23	5,781.7	-161.0	-319.1	-157.8	0.00	0.00	0.00
5,900.0	6.04	243.23	5,881.2	-165.7	-328.5	-162.4	0.00	0.00	0.00
6,000.0	6.04	243.23	5,980.6	-170.4	-337.9	-167.1	0.00	0.00	0.00
6,100.0	6.04	243.23	6,080.0	-175.2	-347.3	-171.7	0.00	0.00	0.00
6,200.0	6.04	243.23	6,179.5	-179.9	-356.7	-176.4	0.00	0.00	0.00
6,300.0	6.04	243.23	6,278.9	-184.7	-366.1	-181.0	0.00	0.00	0.00
6,400.0	6.04	243.23	6,378.4	-189.4	-375.5	-185.7	0.00	0.00	0.00
6,500.0	6.04	243.23	6,477.8	-194.1	-384.8	-190.3	0.00	0.00	0.00
6,600.0	6.04	243.23	6,577.3	-198.9	-394.2	-194.9	0.00	0.00	0.00
6,700.0	6.04	243.23	6,676.7	-203.6	-403.6	-199.6	0.00	0.00	0.00
6,800.0	6.04	243.23	6,776.2	-208.3	-413.0	-204.2	0.00	0.00	0.00
6,891.8	6.04	243.23	6,867.4	-212.7	-421.6	-208.5	0.00	0.00	0.00
DROP - -1.00									
6,900.0	5.95	243.23	6,875.6	-213.1	-422.4	-208.9	1.00	-1.00	0.00
7,000.0	4.95	243.23	6,975.2	-217.4	-430.9	-213.1	1.00	-1.00	0.00
7,100.0	3.95	243.23	7,074.9	-220.9	-437.8	-216.5	1.00	-1.00	0.00
7,200.0	2.95	243.23	7,174.7	-223.6	-443.2	-219.1	1.00	-1.00	0.00
7,300.0	1.95	243.23	7,274.6	-225.5	-447.0	-221.0	1.00	-1.00	0.00
7,400.0	0.95	243.23	7,374.5	-226.6	-449.3	-222.2	1.00	-1.00	0.00
7,495.5	0.00	0.01	7,470.0	-227.0	-450.0	-222.5	1.00	-1.00	0.00
HOLD - 4480.0 at 7495.5 MD									
7,500.0	0.00	0.00	7,474.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,574.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,674.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,774.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,874.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,974.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,074.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,174.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,274.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,374.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,474.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,574.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,674.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,774.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,874.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,974.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,074.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,174.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,274.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,374.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,474.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,574.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,674.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,774.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,874.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,974.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,074.5	-227.0	-450.0	-222.5	0.00	0.00	0.00

Intrepid
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Well:	Seinfeld Federal Unit Yada #223H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	0.00	0.00	10,174.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,274.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,374.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,474.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,574.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,674.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,774.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,874.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,974.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,074.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,174.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,274.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,400.0	0.00	0.00	11,374.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,474.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,574.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,700.0	0.00	0.00	11,674.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,800.0	0.00	0.00	11,774.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,900.0	0.00	0.00	11,874.5	-227.0	-450.0	-222.5	0.00	0.00	0.00
11,975.5	0.00	0.00	11,950.0	-227.0	-450.0	-222.5	0.00	0.00	0.00
KOP - Build 10.00									
12,000.0	2.45	344.90	11,974.5	-226.5	-450.1	-222.0	10.00	10.00	0.00
12,050.0	7.45	344.90	12,024.3	-222.3	-451.3	-217.8	10.00	10.00	0.00
12,100.0	12.45	344.90	12,073.6	-214.0	-453.5	-209.5	10.00	10.00	0.00
12,150.0	17.45	344.90	12,121.9	-201.5	-456.9	-197.0	10.00	10.00	0.00
12,200.0	22.45	344.90	12,168.8	-185.1	-461.3	-180.5	10.00	10.00	0.00
12,250.0	27.45	344.90	12,214.2	-164.7	-466.8	-160.0	10.00	10.00	0.00
12,300.0	32.45	344.90	12,257.5	-140.6	-473.3	-135.9	10.00	10.00	0.00
12,350.0	37.45	344.90	12,298.4	-113.0	-480.8	-108.2	10.00	10.00	0.00
12,400.0	42.45	344.90	12,336.7	-82.0	-489.1	-77.1	10.00	10.00	0.00
12,425.5	45.00	344.90	12,355.1	-65.0	-493.7	-60.1	10.00	10.00	0.00
BLD/TRN - DLS 10.00 TFO 19.70									
12,450.0	47.32	346.03	12,372.1	-47.8	-498.2	-42.9	10.00	9.44	4.58
12,500.0	52.07	348.08	12,404.5	-10.7	-506.7	-5.7	10.00	9.50	4.11
12,550.0	56.85	349.88	12,433.5	29.2	-514.4	34.3	10.00	9.56	3.61
12,600.0	61.65	351.50	12,459.1	71.6	-521.4	76.8	10.00	9.61	3.23
12,650.0	66.47	352.97	12,481.0	116.2	-527.4	121.4	10.00	9.64	2.95
12,700.0	71.30	354.34	12,499.0	162.5	-532.6	167.8	10.00	9.67	2.74
12,750.0	76.15	355.64	12,513.0	210.3	-536.7	215.6	10.00	9.69	2.59
12,800.0	81.00	356.88	12,522.9	259.2	-539.9	264.5	10.00	9.70	2.48
12,850.0	85.85	358.09	12,528.6	308.8	-542.1	314.2	10.00	9.71	2.42
12,900.0	90.71	359.28	12,530.1	358.7	-543.3	364.1	10.00	9.71	2.39
12,906.1	91.30	359.43	12,530.0	364.8	-543.3	370.2	10.00	9.71	2.38
EOC - 6131.3 hold at 12906.1 MD									
13,000.0	91.30	359.43	12,527.9	458.7	-544.3	464.1	0.00	0.00	0.00
13,100.0	91.30	359.43	12,525.6	558.7	-545.3	564.1	0.00	0.00	0.00
13,200.0	91.30	359.43	12,523.3	658.6	-546.3	664.1	0.00	0.00	0.00
13,300.0	91.30	359.43	12,521.1	758.6	-547.3	764.0	0.00	0.00	0.00
13,400.0	91.30	359.43	12,518.8	858.6	-548.3	864.0	0.00	0.00	0.00
13,500.0	91.30	359.43	12,516.5	958.6	-549.3	964.0	0.00	0.00	0.00
13,600.0	91.30	359.43	12,514.3	1,058.5	-550.3	1,063.9	0.00	0.00	0.00
13,700.0	91.30	359.43	12,512.0	1,158.5	-551.3	1,163.9	0.00	0.00	0.00
13,800.0	91.30	359.43	12,509.7	1,258.5	-552.3	1,263.9	0.00	0.00	0.00
13,900.0	91.30	359.43	12,507.5	1,358.4	-553.3	1,363.9	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 #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**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)
14,000.0	91.30	359.43	12,505.2	1,458.4	-554.3	1,463.8	0.00	0.00	0.00
14,100.0	91.30	359.43	12,502.9	1,558.4	-555.3	1,563.8	0.00	0.00	0.00
14,200.0	91.30	359.43	12,500.7	1,658.3	-556.3	1,663.8	0.00	0.00	0.00
14,300.0	91.30	359.43	12,498.4	1,758.3	-557.2	1,763.8	0.00	0.00	0.00
14,400.0	91.30	359.43	12,496.1	1,858.3	-558.2	1,863.7	0.00	0.00	0.00
14,500.0	91.30	359.43	12,493.9	1,958.2	-559.2	1,963.7	0.00	0.00	0.00
14,600.0	91.30	359.43	12,491.6	2,058.2	-560.2	2,063.7	0.00	0.00	0.00
14,700.0	91.30	359.43	12,489.3	2,158.2	-561.2	2,163.7	0.00	0.00	0.00
14,800.0	91.30	359.43	12,487.1	2,258.2	-562.2	2,263.6	0.00	0.00	0.00
14,900.0	91.30	359.43	12,484.8	2,358.1	-563.2	2,363.6	0.00	0.00	0.00
15,000.0	91.30	359.43	12,482.5	2,458.1	-564.2	2,463.6	0.00	0.00	0.00
15,100.0	91.30	359.43	12,480.3	2,558.1	-565.2	2,563.6	0.00	0.00	0.00
15,200.0	91.30	359.43	12,478.0	2,658.0	-566.2	2,663.5	0.00	0.00	0.00
15,300.0	91.30	359.43	12,475.7	2,758.0	-567.2	2,763.5	0.00	0.00	0.00
15,400.0	91.30	359.43	12,473.5	2,858.0	-568.2	2,863.5	0.00	0.00	0.00
15,500.0	91.30	359.43	12,471.2	2,957.9	-569.2	2,963.5	0.00	0.00	0.00
15,600.0	91.30	359.43	12,468.9	3,057.9	-570.2	3,063.4	0.00	0.00	0.00
15,700.0	91.30	359.43	12,466.7	3,157.9	-571.2	3,163.4	0.00	0.00	0.00
15,800.0	91.30	359.43	12,464.4	3,257.9	-572.2	3,263.4	0.00	0.00	0.00
15,900.0	91.30	359.43	12,462.1	3,357.8	-573.2	3,363.4	0.00	0.00	0.00
16,000.0	91.30	359.43	12,459.9	3,457.8	-574.2	3,463.3	0.00	0.00	0.00
16,100.0	91.30	359.43	12,457.6	3,557.8	-575.2	3,563.3	0.00	0.00	0.00
16,200.0	91.30	359.43	12,455.3	3,657.7	-576.2	3,663.3	0.00	0.00	0.00
16,300.0	91.30	359.43	12,453.1	3,757.7	-577.2	3,763.3	0.00	0.00	0.00
16,400.0	91.30	359.43	12,450.8	3,857.7	-578.2	3,863.2	0.00	0.00	0.00
16,500.0	91.30	359.43	12,448.5	3,957.6	-579.2	3,963.2	0.00	0.00	0.00
16,600.0	91.30	359.43	12,446.3	4,057.6	-580.2	4,063.2	0.00	0.00	0.00
16,700.0	91.30	359.43	12,444.0	4,157.6	-581.2	4,163.2	0.00	0.00	0.00
16,800.0	91.30	359.43	12,441.7	4,257.5	-582.2	4,263.1	0.00	0.00	0.00
16,900.0	91.30	359.43	12,439.5	4,357.5	-583.2	4,363.1	0.00	0.00	0.00
17,000.0	91.30	359.43	12,437.2	4,457.5	-584.2	4,463.1	0.00	0.00	0.00
17,100.0	91.30	359.43	12,434.9	4,557.5	-585.2	4,563.0	0.00	0.00	0.00
17,200.0	91.30	359.43	12,432.7	4,657.4	-586.2	4,663.0	0.00	0.00	0.00
17,300.0	91.30	359.43	12,430.4	4,757.4	-587.2	4,763.0	0.00	0.00	0.00
17,400.0	91.30	359.43	12,428.1	4,857.4	-588.2	4,863.0	0.00	0.00	0.00
17,500.0	91.30	359.43	12,425.9	4,957.3	-589.2	4,962.9	0.00	0.00	0.00
17,600.0	91.30	359.43	12,423.6	5,057.3	-590.2	5,062.9	0.00	0.00	0.00
17,700.0	91.30	359.43	12,421.3	5,157.3	-591.2	5,162.9	0.00	0.00	0.00
17,800.0	91.30	359.43	12,419.0	5,257.2	-592.2	5,262.9	0.00	0.00	0.00
17,900.0	91.30	359.43	12,416.8	5,357.2	-593.2	5,362.8	0.00	0.00	0.00
18,000.0	91.30	359.43	12,414.5	5,457.2	-594.2	5,462.8	0.00	0.00	0.00
18,100.0	91.30	359.43	12,412.2	5,557.1	-595.2	5,562.8	0.00	0.00	0.00
18,200.0	91.30	359.43	12,410.0	5,657.1	-596.2	5,662.8	0.00	0.00	0.00
18,300.0	91.30	359.43	12,407.7	5,757.1	-597.2	5,762.7	0.00	0.00	0.00
18,400.0	91.30	359.43	12,405.4	5,857.1	-598.2	5,862.7	0.00	0.00	0.00
18,500.0	91.30	359.43	12,403.2	5,957.0	-599.2	5,962.7	0.00	0.00	0.00
18,600.0	91.30	359.43	12,400.9	6,057.0	-600.2	6,062.7	0.00	0.00	0.00
18,700.0	91.30	359.43	12,398.6	6,157.0	-601.2	6,162.6	0.00	0.00	0.00
18,800.0	91.30	359.43	12,396.4	6,256.9	-602.2	6,262.6	0.00	0.00	0.00
18,900.0	91.30	359.43	12,394.1	6,356.9	-603.2	6,362.6	0.00	0.00	0.00
19,000.0	91.30	359.43	12,391.8	6,456.9	-604.2	6,462.6	0.00	0.00	0.00
19,037.4	91.30	359.43	12,391.0	6,494.3	-604.6	6,500.0	0.00	0.00	0.00

Start DLS 2.00 TFO 179.57

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,077.6	90.50	359.43	12,390.4	6,534.5	-605.0	6,540.1	2.00	-2.00	0.01
Start 3747.9 hold at 19077.6 MD									
19,100.0	90.50	359.43	12,390.2	6,556.8	-605.2	6,562.5	0.00	0.00	0.00
19,200.0	90.50	359.43	12,389.3	6,656.8	-606.2	6,662.5	0.00	0.00	0.00
19,300.0	90.50	359.43	12,388.4	6,756.8	-607.2	6,762.5	0.00	0.00	0.00
19,400.0	90.50	359.43	12,387.6	6,856.8	-608.1	6,862.5	0.00	0.00	0.00
19,500.0	90.50	359.43	12,386.7	6,956.8	-609.1	6,962.5	0.00	0.00	0.00
19,600.0	90.50	359.43	12,385.8	7,056.8	-610.1	7,062.5	0.00	0.00	0.00
19,700.0	90.50	359.43	12,385.0	7,156.8	-611.1	7,162.5	0.00	0.00	0.00
19,800.0	90.50	359.43	12,384.1	7,256.8	-612.1	7,262.5	0.00	0.00	0.00
19,900.0	90.50	359.43	12,383.2	7,356.8	-613.1	7,362.5	0.00	0.00	0.00
20,000.0	90.50	359.43	12,382.4	7,456.8	-614.1	7,462.5	0.00	0.00	0.00
20,100.0	90.50	359.43	12,381.5	7,556.8	-615.1	7,562.5	0.00	0.00	0.00
20,200.0	90.50	359.43	12,380.7	7,656.8	-616.0	7,662.5	0.00	0.00	0.00
20,300.0	90.50	359.43	12,379.8	7,756.7	-617.0	7,762.5	0.00	0.00	0.00
20,400.0	90.50	359.43	12,378.9	7,856.7	-618.0	7,862.5	0.00	0.00	0.00
20,500.0	90.50	359.43	12,378.1	7,956.7	-619.0	7,962.5	0.00	0.00	0.00
20,600.0	90.50	359.43	12,377.2	8,056.7	-620.0	8,062.5	0.00	0.00	0.00
20,700.0	90.50	359.43	12,376.3	8,156.7	-621.0	8,162.5	0.00	0.00	0.00
20,800.0	90.50	359.43	12,375.5	8,256.7	-622.0	8,262.5	0.00	0.00	0.00
20,900.0	90.50	359.43	12,374.6	8,356.7	-623.0	8,362.5	0.00	0.00	0.00
21,000.0	90.50	359.43	12,373.7	8,456.7	-624.0	8,462.5	0.00	0.00	0.00
21,100.0	90.50	359.43	12,372.9	8,556.7	-624.9	8,562.5	0.00	0.00	0.00
21,200.0	90.50	359.43	12,372.0	8,656.7	-625.9	8,662.5	0.00	0.00	0.00
21,300.0	90.50	359.43	12,371.1	8,756.7	-626.9	8,762.5	0.00	0.00	0.00
21,400.0	90.50	359.43	12,370.3	8,856.6	-627.9	8,862.5	0.00	0.00	0.00
21,500.0	90.50	359.43	12,369.4	8,956.6	-628.9	8,962.5	0.00	0.00	0.00
21,600.0	90.50	359.43	12,368.5	9,056.6	-629.9	9,062.5	0.00	0.00	0.00
21,700.0	90.50	359.43	12,367.7	9,156.6	-630.9	9,162.4	0.00	0.00	0.00
21,800.0	90.50	359.43	12,366.8	9,256.6	-631.9	9,262.4	0.00	0.00	0.00
21,900.0	90.50	359.43	12,365.9	9,356.6	-632.9	9,362.4	0.00	0.00	0.00
22,000.0	90.50	359.43	12,365.1	9,456.6	-633.8	9,462.4	0.00	0.00	0.00
22,100.0	90.50	359.43	12,364.2	9,556.6	-634.8	9,562.4	0.00	0.00	0.00
22,200.0	90.50	359.43	12,363.3	9,656.6	-635.8	9,662.4	0.00	0.00	0.00
22,300.0	90.50	359.43	12,362.5	9,756.6	-636.8	9,762.4	0.00	0.00	0.00
22,400.0	90.50	359.43	12,361.6	9,856.6	-637.8	9,862.4	0.00	0.00	0.00
22,500.0	90.50	359.43	12,360.7	9,956.6	-638.8	9,962.4	0.00	0.00	0.00
22,600.0	90.50	359.43	12,359.9	10,056.5	-639.8	10,062.4	0.00	0.00	0.00
22,700.0	90.50	359.43	12,359.0	10,156.5	-640.8	10,162.4	0.00	0.00	0.00
22,800.0	90.50	359.43	12,358.1	10,256.5	-641.7	10,262.4	0.00	0.00	0.00
22,825.5	90.50	359.43	12,357.9	10,282.0	-642.0	10,287.9	0.00	0.00	0.00
TD at 22825.5									

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**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
LTP (Yada Fed Com # - plan misses target center by 50.4usft at 22730.9usft MD (12358.7 TVD, 10187.4 N, -641.1 E) - Point	0.00	0.00	12,308.4	10,187.0	-641.0	436,283.00	849,783.00	32° 11' 43.756 N	103° 20' 10.356 W
PBHL (Yada Fed Com - plan hits target center - Rectangle (sides W100.0 H3,788.1 D30.0)	-0.50	359.43	12,357.9	10,282.0	-642.0	436,378.00	849,782.00	32° 11' 44.696 N	103° 20' 10.357 W
6500'VS (Yada Fed Cc - plan hits target center - Rectangle (sides W100.0 H6,672.3 D30.0)	-1.30	359.43	12,391.0	6,494.3	-604.6	432,590.30	849,819.44	32° 11' 7.215 N	103° 20' 10.330 W
KOP (Yada Fed Com # - plan misses target center by 218.1usft at 12417.0usft MD (12349.1 TVD, -70.7 N, -492.2 E) - Point	0.00	0.00	12,488.0	-233.0	-536.0	425,863.00	849,888.00	32° 10' 0.645 N	103° 20' 10.258 W
FTP (Yada Fed Com # - plan misses target center by 178.4usft at 12446.4usft MD (12369.7 TVD, -50.4 N, -497.5 E) - Point	0.00	0.00	12,488.0	-178.0	-537.0	425,918.00	849,887.00	32° 10' 1.189 N	103° 20' 10.264 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,166.0	1,166.0	Rustler Anhydrite			
1,387.0	1,387.0	Top Salt			
4,880.2	4,867.0	Base Salt			
5,280.4	5,265.0	Delaware Mountain Gp			
5,290.5	5,275.0	Lamar			
5,318.6	5,303.0	Bell Canyon			
5,408.1	5,392.0	Ramsey Sand			
6,115.0	6,095.0	Cherry Canyon			
7,536.0	7,510.5	Brushy Canyon			
8,844.0	8,818.5	Bone Spring Lime			
8,916.0	8,890.5	Upper Avalon			
9,129.0	9,103.5	Middle Avalon			
9,778.5	9,753.0	Lower Avalon			
10,057.0	10,031.5	1st Bone Spring Sand			
10,392.0	10,366.5	2nd Bone Spring Carb			
10,709.0	10,683.5	2nd Bone Spring Sand			
11,181.0	11,155.5	3rd Bone Spring Carb			
11,709.5	11,684.0	3rd Bone Spring Sand			
11,958.5	11,933.0	3rd BS W Sand			
12,009.0	11,983.5	Wolfcamp A X Sand			
12,036.6	12,011.0	Wolfcamp A Y Sand			
12,083.6	12,057.5	Wolfcamp A Lower			
12,286.5	12,246.0	Wolfcamp A Lower Carb			
12,439.6	12,365.0	Wolfcamp B			
12,748.0	12,512.5	Wolfcamp B1			

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Seinfeld Federal Unit Yada #223H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3297.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3297.0usft
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	**North Reference:**	Grid
Well:	Seinfeld Federal Unit Yada #223H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,100.0	2,100.0	0.0	0.0	NUDGE - Build 1.00
2,703.7	2,702.6	-14.3	-28.4	HOLD - 4188.1 at 2703.7 MD
6,891.8	6,867.4	-212.7	-421.6	DROP - -1.00
7,495.5	7,470.0	-227.0	-450.0	HOLD - 4480.0 at 7495.5 MD
11,975.5	11,950.0	-227.0	-450.0	KOP - Build 10.00
12,425.5	12,355.1	-65.0	-493.7	BLD/TRN - DLS 10.00 TFO 19.70
12,906.1	12,530.0	364.8	-543.3	EOC - 6131.3 hold at 12906.1 MD
19,037.4	12,391.0	6,494.3	-604.6	Start DLS 2.00 TFO 179.57
19,077.6	12,390.4	6,534.5	-605.0	Start 3747.9 hold at 19077.6 MD
22,825.5	12,357.9	10,282.0	-642.0	TD at 22825.5

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Seinfeld Federal Unit Yada 223H
LOCATION:	Sec 35-24S-35E-NMP
COUNTY:	Lea County, New Mexico

*Previously known as **Yada Fed Com 223H**. Changes approved through engineering via **Sundry 2725406** on 04/28/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Wellhead Variance	○ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☑ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **933** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.

- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

c. Manufacturer representative shall install the test plug for the initial BOP test.
d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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 213447

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 213447
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/4/2023