

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.

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 30-025-50987		² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M:WOLFBONE	
⁴ Property Code 333091	⁵ Property Name SEINFELD FEDERAL UNIT YADA			⁶ Well Number 223H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3271'

¹⁰Surface Location

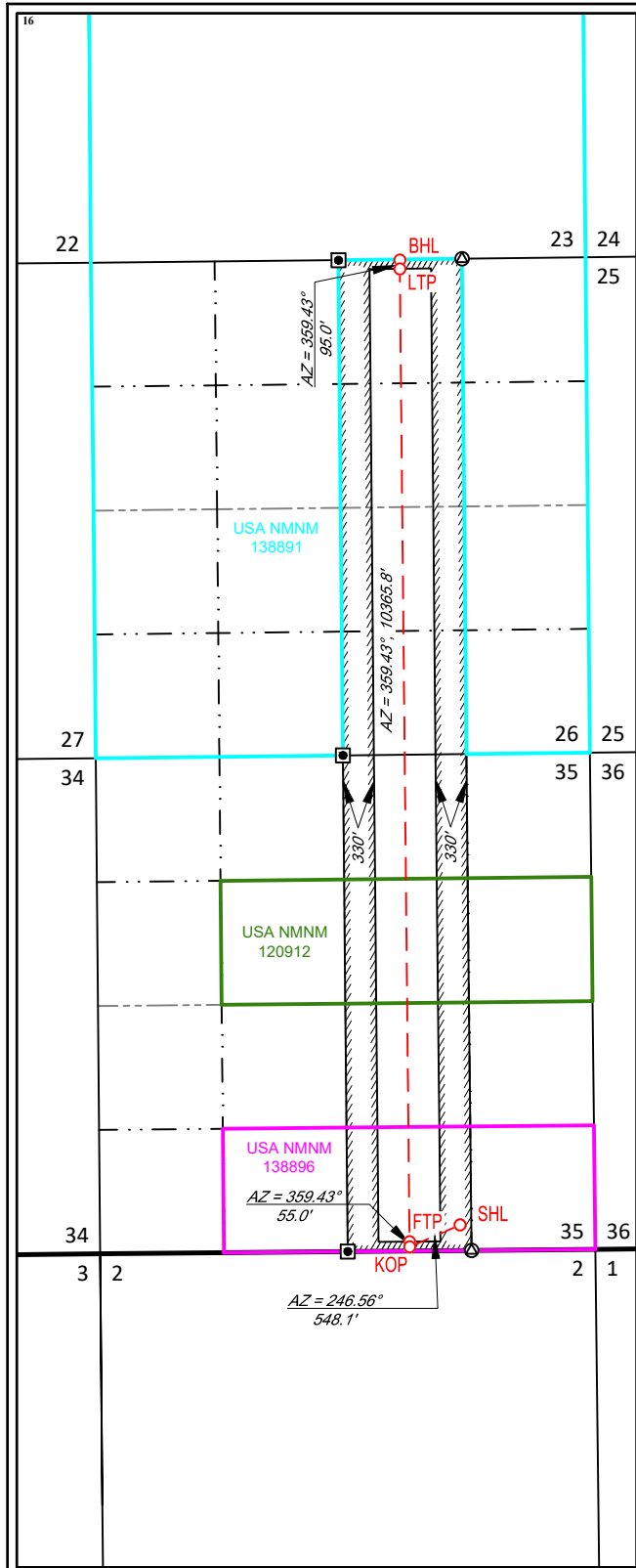
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	35	24-S	35-E	-	273'	SOUTH	1441'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	24-S	35-E	—	5'	NORTH	1980'	EAST	LEA

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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.

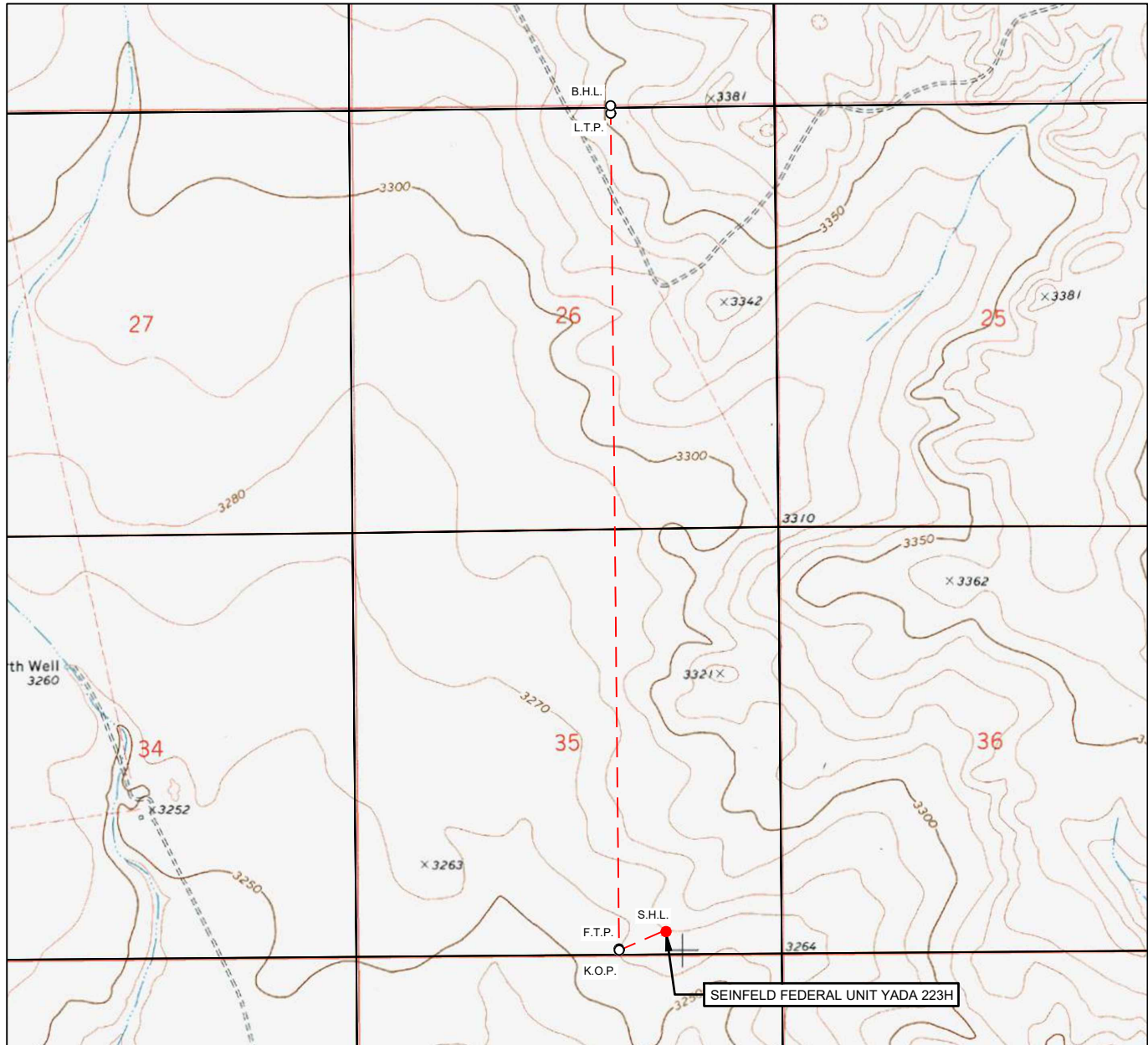
08/27/2021

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

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

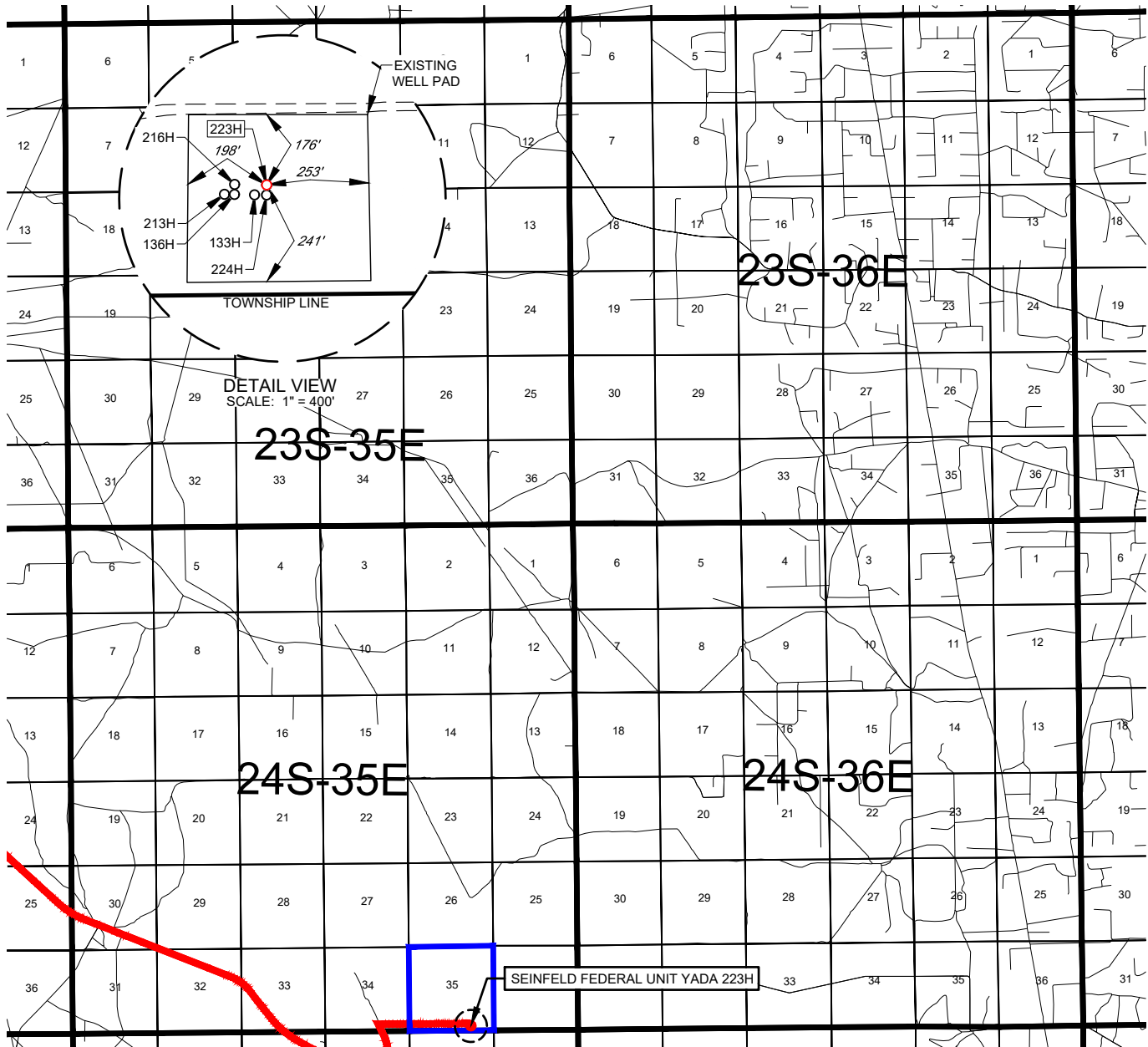
SCALE: 1" = 2000'
 0' 1000' 2000'

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.



481 WINSBROTT 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 MAPLEASE NAME & WELL NO.: SEINFELD FEDERAL UNIT YADA 223HSECTION 35 TWP 24-S RGE 35-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 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
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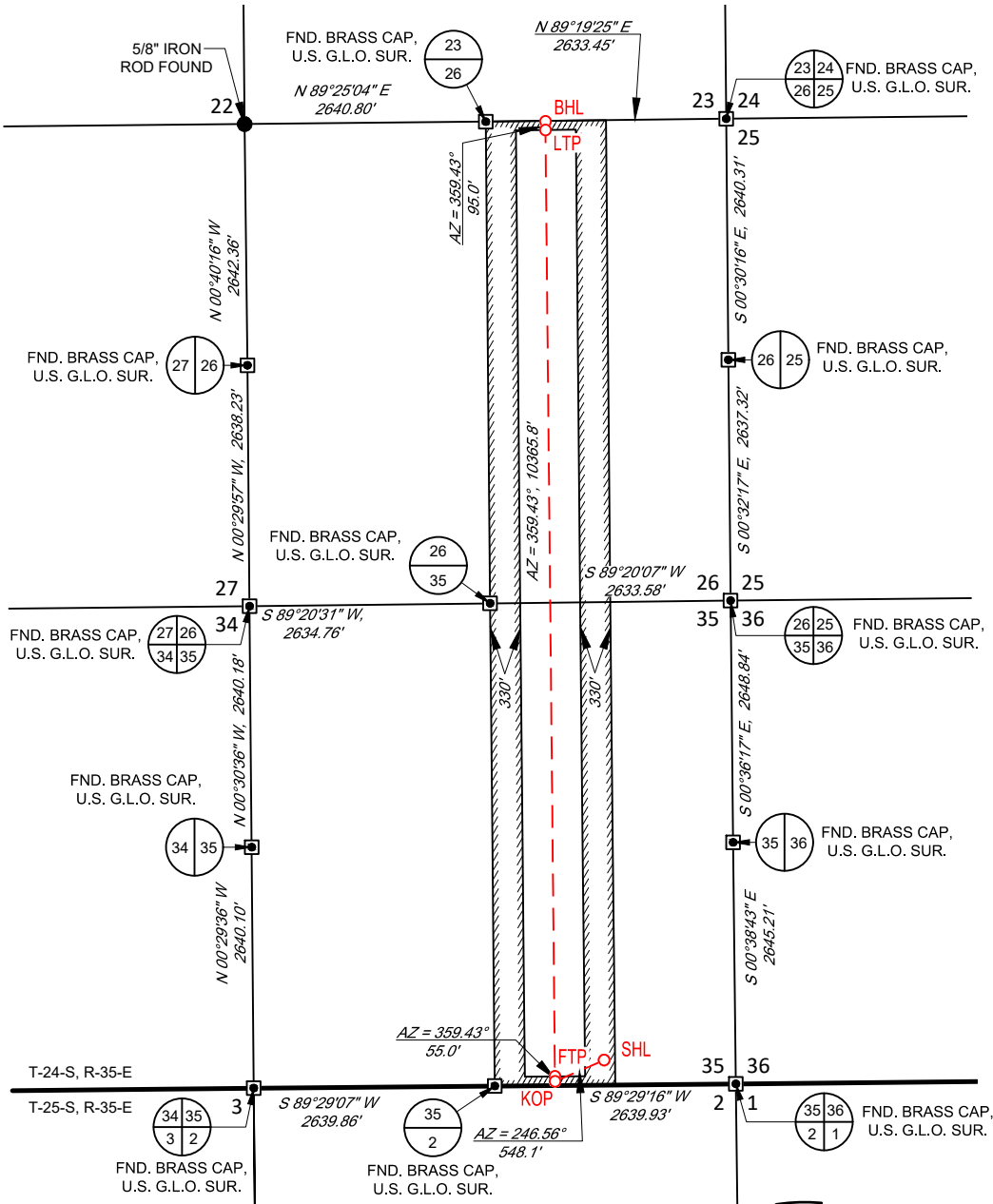
SCALE: 1" = 10000'
 0' 5000' 10000'



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 WWW.TOPOGRAPHIC.COM

TAP
ROCK
EXHIBIT 2A

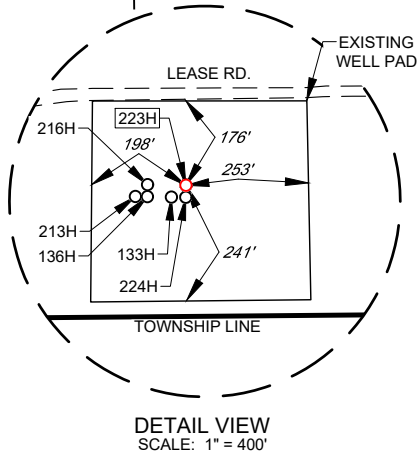
SECTION 35, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
<u>SURFACE LOCATION (SHL)</u>
272' FSL - SEC. 35
1441' FEL - SEC. 35
X=850424 Y=426096
LAT.: N 32.1674714
LONG.: W 103.3344428
<u>KICK OFF POINT (KOP)</u>
45' FSL - SEC. 35
1980' FEL - SEC. 35
X=849888 Y=425863
LAT.: N 32.1668454
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100' FSL - SEC. 35
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X=849783 Y=436283
LAT.: N 32.1954884
LONG.: W 103.3362088
<u>BOTTOM HOLE LOCATION (BHL)</u>
5' FNL - SEC. 26
1980' FEL - SEC. 26
X=849782 Y=436378
LAT.: N 32.1957495
LONG.: W 103.3362090



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



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.

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, P.S. No. 24508
April 16, 2023

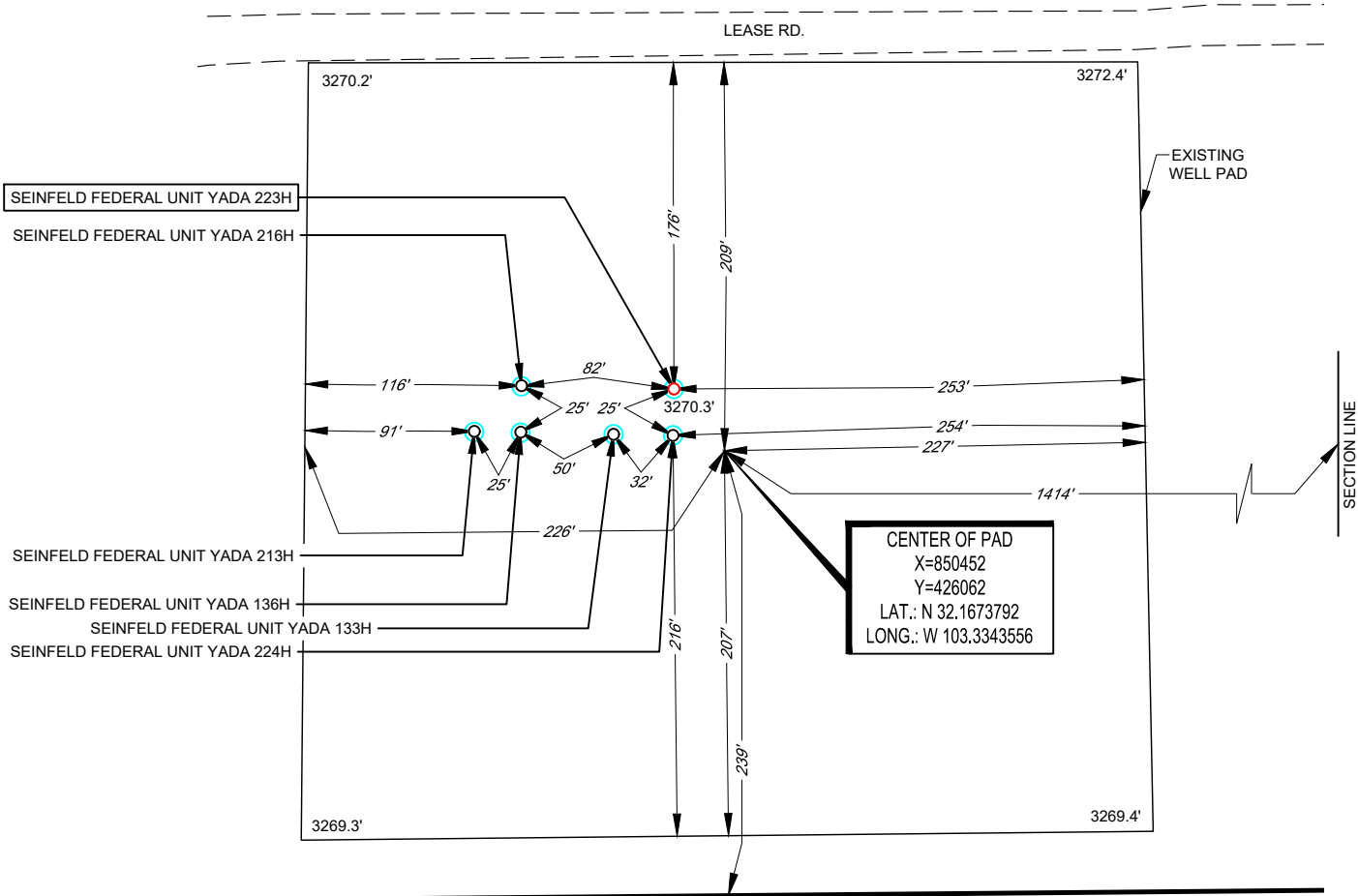
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

LEGEND

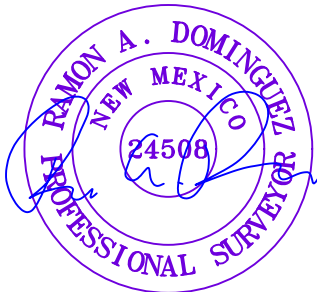


SECTION 35, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



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"



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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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 WWW.TOPOGRAPHIC.COM



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 nipped 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% NCI + LCM
	Tail	650	249	1.34	334	14.8	100%	C	5% NCI + LCM
Intermediate	Lead	0	868	4.29	3724	10.5	65%	C	Bentonite + 1% CaCL ₂ + 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



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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.

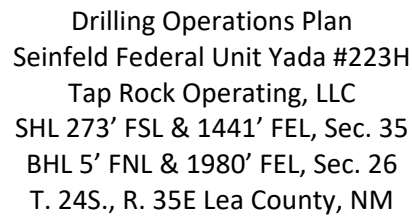
7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 7,390$ psi. Expected bottom hole temperature is $\approx 195^{\circ}$ 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

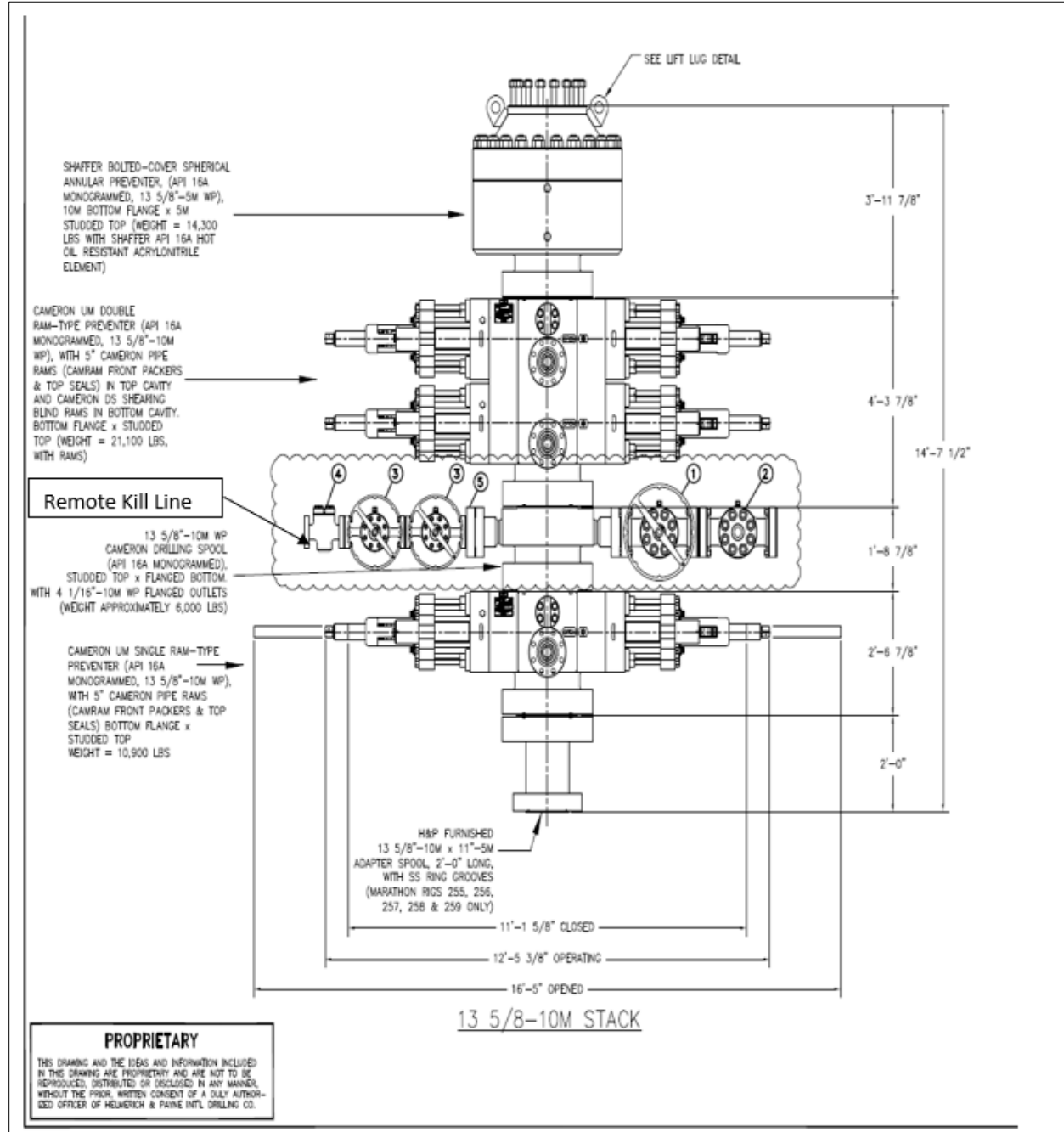
Road and location have already been constructed. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.

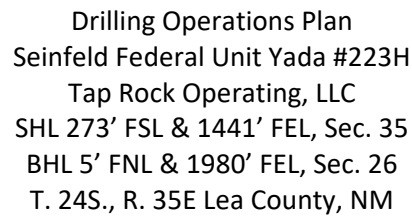




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T. 24S., R. 35E Lea County, NM

10M BOP Stack with 5M Annular

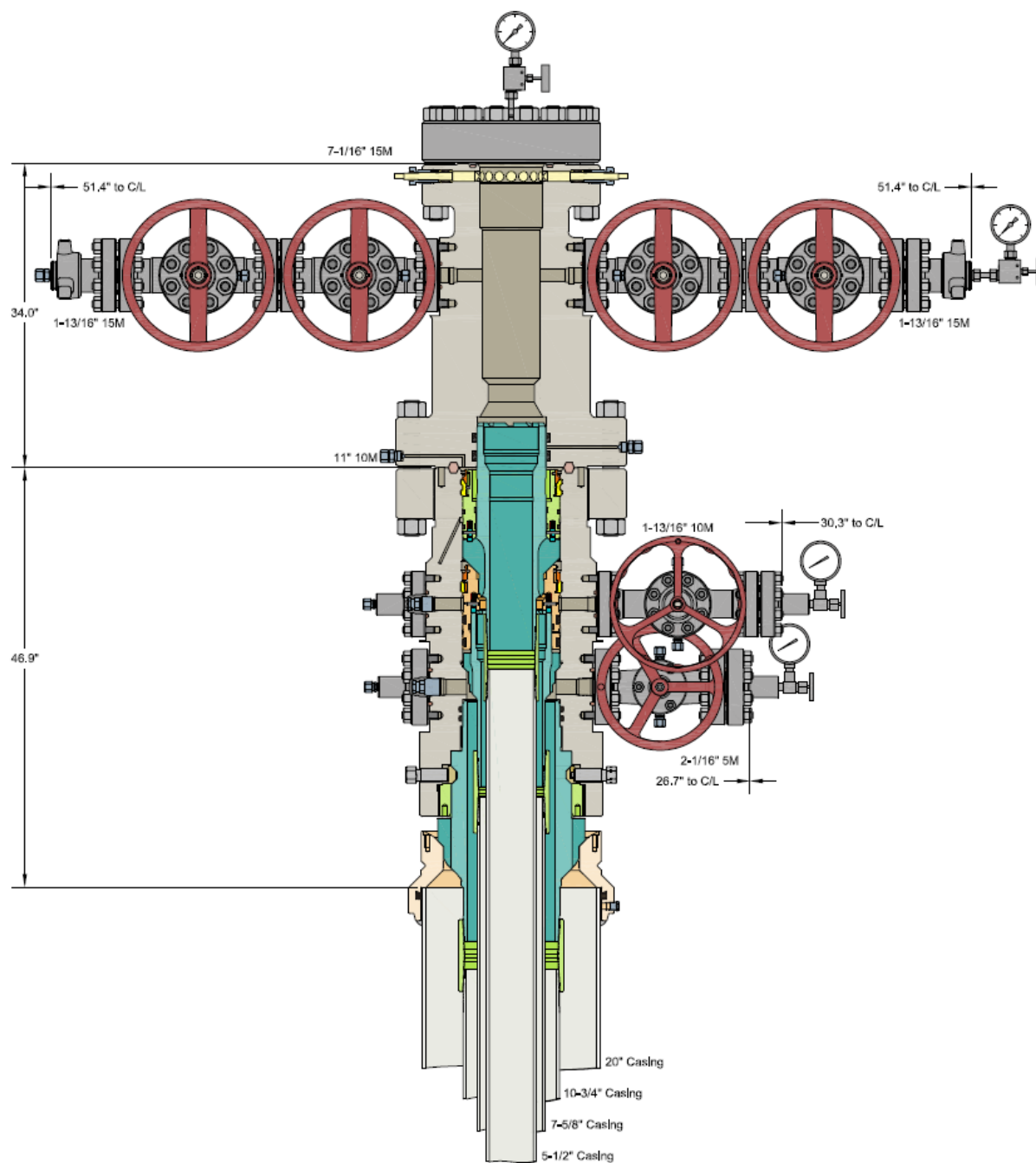






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Multi-bowl Wellhead Design





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



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 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



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)
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
Company: Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Yada Fed Com) Sec-35_T-24-S_R-35-E
Well: Seinfeld Federal Unit Yada #223H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: Well Seinfeld Federal Unit Yada #223H
TVD Reference: KB @ 3297.0usft
MD Reference: KB @ 3297.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 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)
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



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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									



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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	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
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
6500VS (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				



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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 Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
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

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1625 N. French Dr., Hobbs, NM 88240
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District IV
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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 212052

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 212052
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/3/2023