

Well Name: HIGH LIFE FED COM	Well Location: T25S / R25E / SEC 11 / NWSW / 32.1415354 / -104.3745401	County or Parish/State: EDDY / NM
Well Number: 213H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM91507	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001554531	Operator: TAP ROCK OPERATING LLC	

Notice of Intent

Sundry ID: 2801656

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 07/17/2024 Time Sundry Submitted: 04:54

Date proposed operation will begin: 10/01/2024

Procedure Description: Tap Rock Operating, LLC would like to alter the drilling program for the High Life Fed Com 213H with the following requests: Tap Rock would like to extend the lateral length from the previously approved 2 miles to 3 miles. This change will cause new LTP, BHL, and PPP locations. With this change Tap Rock has attached new plats, new directionals, new drill plans, and casing details for the well in question. A summary of the changes is listed below: The previously approved BHL for the 213H is: 2,270' FSL, 5' FEL of Section 12, T25S, R25E The new requested BHL for the 213H is: 2,360' FSL, 5' FEL of Section 7, T25S, R26E The previously approved TVD-MD for the 213H is 8,466ft TVD, 18,635ft MD The new requested TVD-MD for the 213H is 8,589ft TVD, 23,870ft MD. Tap Rock would also like to change the casing design for the requested well. Casing tables have been updated in the drill plan and the casing spec sheets are attached.

NOI Attachments

Procedure Description

- LO_HIGH_LIFE_FED_COM_213H_REV3_Sundry_20240717164926.pdf
- Sundry_Drilling_Plan___High_Life_213H_07_15_2024_20240717164926.pdf
- TH_DS_24.10506.00_20240717164908.pdf
- High_Life_Fed_Com_213H_Plan_1_20240717164853.pdf

County or Parish/State: EDDY7
NM

Allottee or Tribe Name:

Unit or CA Number:

Operator: TAP ROCK OPERATING LLC

Additional

Sec 11 25S 25E NMP Sundry 2801656 High Life Fed Com 213H COAs 20240801071549.pdf

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

Signed on: JUL 17, 2024 04:54 PM

Name: TAP ROCK OPERATING LLC

Title: Regulatory Analyst

Street Address: 523 PARK POINT DRIVE SUITE 200

City: GOLDEN

State: CO

Phone: (720) 360-4028

Email address: BRAMSEY@TAPRK.COM

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

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: 08/12/2024

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

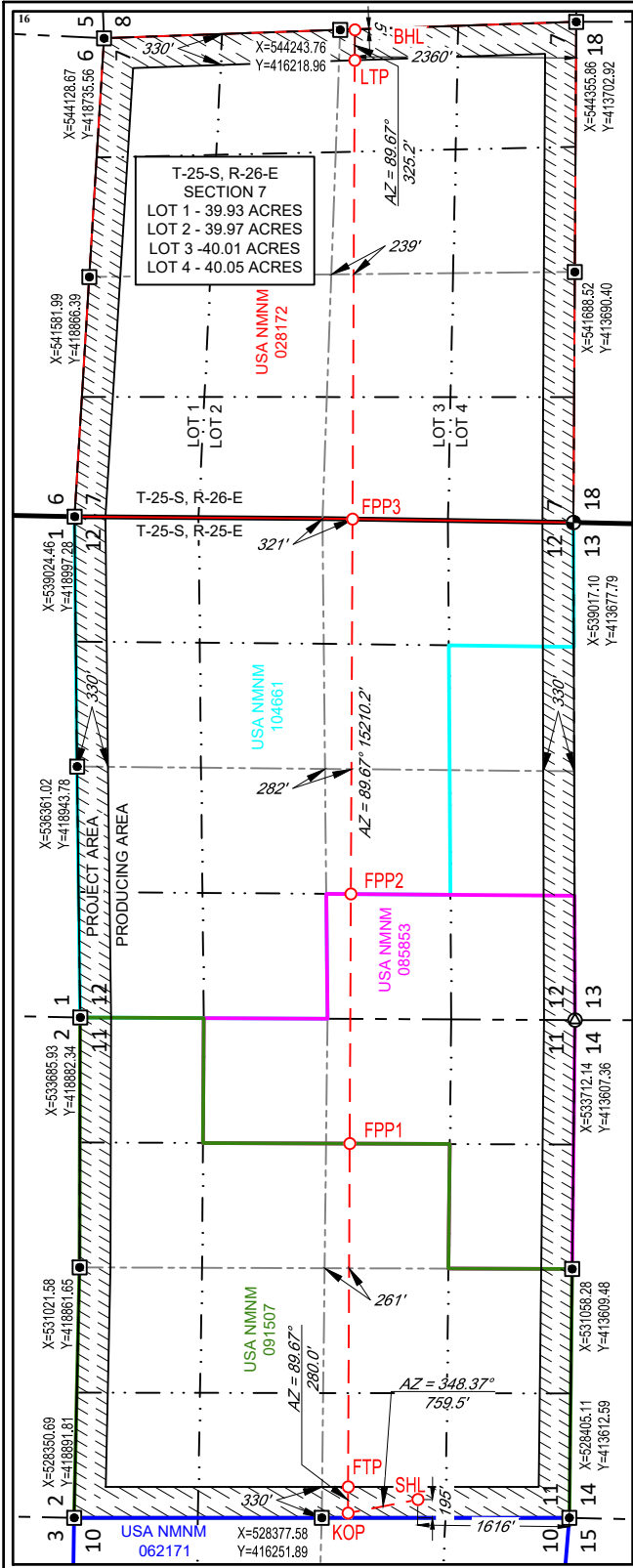
¹ API Number 30-015-54531		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 335064		⁵ Property Name HIGH LIFE FED COM			⁶ Well Number 213H
⁷ OGRID No. 372043		⁸ Operator Name TAP ROCK OPERATING, LLC.			⁹ Elevation 3490'

¹⁰ Surface Location									
UL or lot no. L	Section 11	Township 25-S	Range 25-E	Lot Idn -	Feet from the 1616'	North/South line SOUTH	Feet from the 195'	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. I	Section 7	Township 25-S	Range 26-E	Lot Idn -	Feet from the 2360'	North/South line SOUTH	Feet from the 5'	East/West line EAST	County EDDY

¹² Dedicated Acres 1920	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)

1616' FSL - SEC. 11
195' FWL - SEC. 11
X=528584 Y=415229
LAT.: N 32.1415354
LONG.: W 104.3745401

KICK OFF POINT (KOP)

2360' FSL - SEC. 11
50' FWL - SEC. 11
X=528430 Y=415973
LAT.: N 32.1435803
LONG.: W 104.3750355

FIRST TAKE POINT (FTP)

2362' FSL - SEC. 11
330' FWL - SEC. 11
X=528710 Y=415974
LAT.: N 32.1435850
LONG.: W 104.3741309

FED PERF. POINT (FPP1)

2387' FSL - SEC. 11
1330' FEL - SEC. 11
X=532371 Y=415995
LAT.: N 32.1436454
LONG.: W 104.3623027

FED PERF. POINT (FPP2)

2385' FSL - SEC. 12
1331' FWL - SEC. 12
X=535032 Y=416010
LAT.: N 32.1436887
LONG.: W 104.3537059

FED PERF. POINT (FPP3)

2355' FSL - SEC. 7
0' FWL - SEC. 7
X=539029 Y=416033
LAT.: N 32.1437525
LONG.: W 104.3407907

LAST TAKE POINT (LTP)

2360' FSL - SEC. 7
330' FEL - SEC. 7
X=543920 Y=416061
LAT.: N 32.1438289
LONG.: W 104.3249877

BOTTOM HOLE LOCATION (BHL)

2360' FSL - SEC. 7
5' FEL - SEC. 7
X=544246 Y=416062
LAT.: N 32.1438339
LONG.: W 104.3239369

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

William Ramsey 7/17/2024
Signature Date

Bill Ramsey
Printed Name

bramsey@taprk.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

03/18/2023
Date of Survey

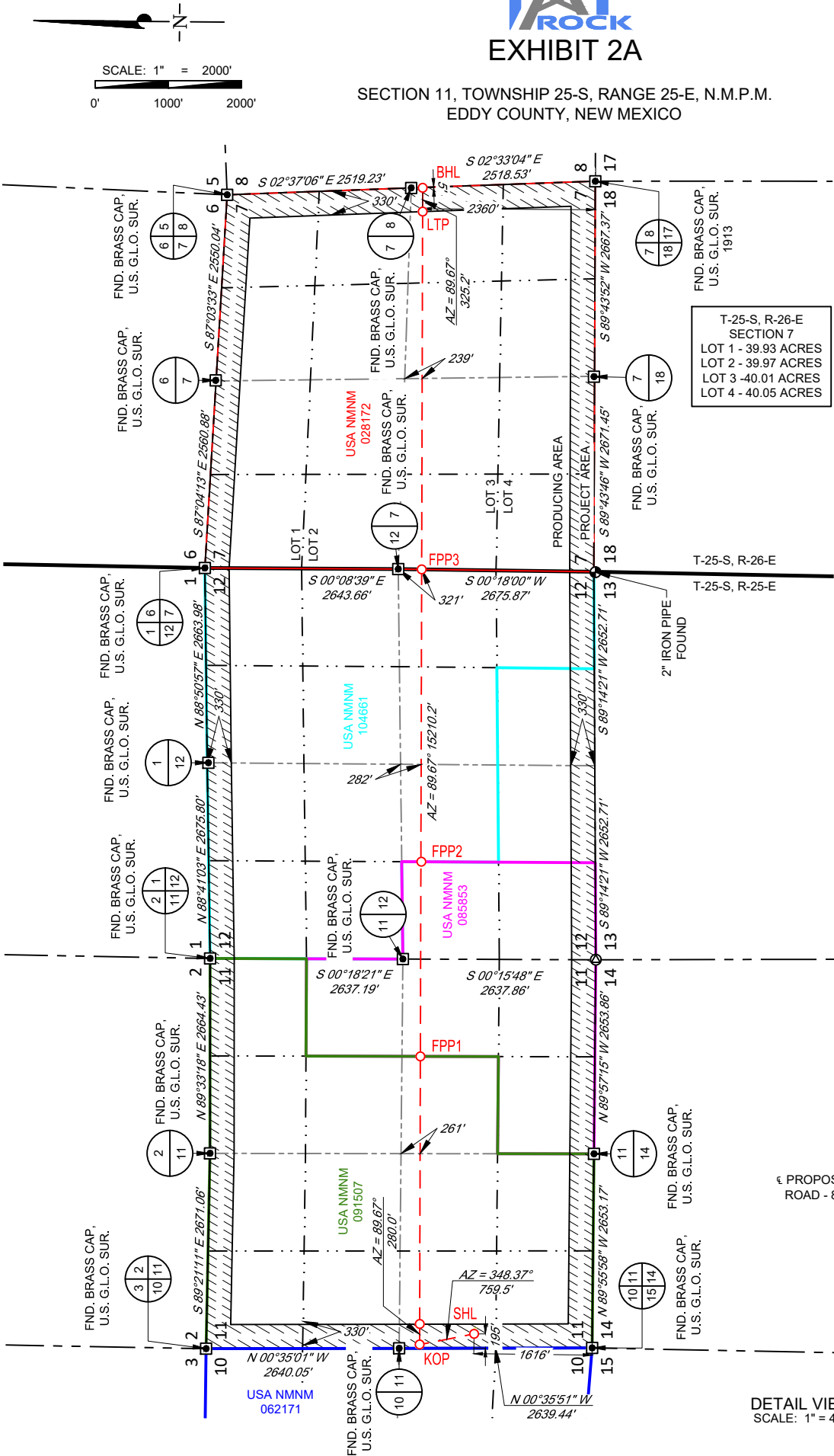
Signature and Seal of Professional Surveyor

Professional Surveyor Seal: RAMON DOMINGUEZ, NEW MEXICO, 24508

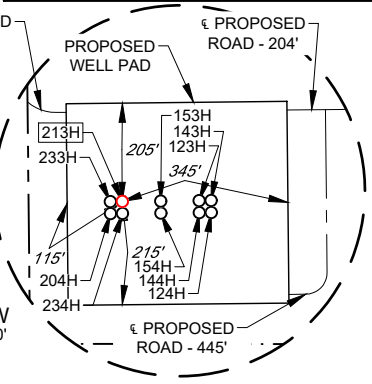
7/11/2024 7:22:32 AM
Certificate Number

TAP
ROCK
EXHIBIT 2A

SECTION 11, TOWNSHIP 25-S, RANGE 25-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
SURFACE LOCATION (SHL)
1616' FSL - SEC. 11 195' FWL - SEC. 11 X=528584 Y=415229 LAT.: N 32.1415354 LONG.: W 104.3745401
KICK OFF POINT (KOP)
2360' FSL - SEC. 11 50' FWL - SEC. 11 X=528430 Y=415973 LAT.: N 32.1435803 LONG.: W 104.3750355
FIRST TAKE POINT (FTP)
2362' FSL - SEC. 11 330' FWL - SEC. 11 X=528710 Y=415974 LAT.: N 32.1435850 LONG.: W 104.3741309
FED PERF. POINT (FPP1)
2387' FSL - SEC. 11 1330' FEL - SEC. 11 X=532371 Y=415995 LAT.: N 32.1436454 LONG.: W 104.3623027
FED PERF. POINT (FPP2)
2385' FSL - SEC. 12 1331' FWL - SEC. 12 X=535032 Y=416010 LAT.: N 32.1436887 LONG.: W 104.3537059
FED PERF. POINT (FPP3)
2355' FSL - SEC. 7 0' FWL - SEC. 7 X=539029 Y=416033 LAT.: N 32.1437525 LONG.: W 104.3407907
LAST TAKE POINT (LTP)
2360' FSL - SEC. 7 330' FEL - SEC. 7 X=543920 Y=416061 LAT.: N 32.1438289 LONG.: W 104.3249877
BOTTOM HOLE LOCATION (BHL)
2360' FSL - SEC. 7 5' FEL - SEC. 7 X=544246 Y=416062 LAT.: N 32.1438339 LONG.: W 104.3239369



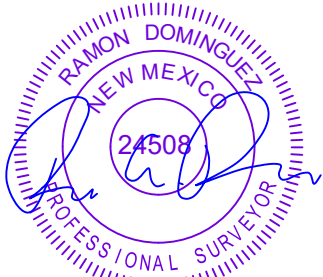
LEASE NAME & WELL NO.: HIGH LIFE FED COM 213H

SECTION 11 TWP 25-S RGE 25-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1616' FNL & 195' FEL

DISTANCE & DIRECTION
FROM INT. OF BLACK RIVER VILLAGE RD., & US-180 W/US-62 W, GO
WEST ON BLACK RIVER VILLAGE RD. ±16.1 MILES, THENCE
SOUTHEAST (LEFT) ON US-180 W/US-62 W ±9.6 MILES, THENCE MAKE A
U-TURN ±2.9 MILES, THENCE EAST (RIGHT) ON WHITES CITY RD. ±1.6
MILES, THENCE WEST (RIGHT) ON A PROPOSED RD. ±80 FEET TO A
POINT ±392 FEET NORTHEAST 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.



7/11/2024 7:22:33 AM

Ramon A Dominguez, P.S. No. 24508



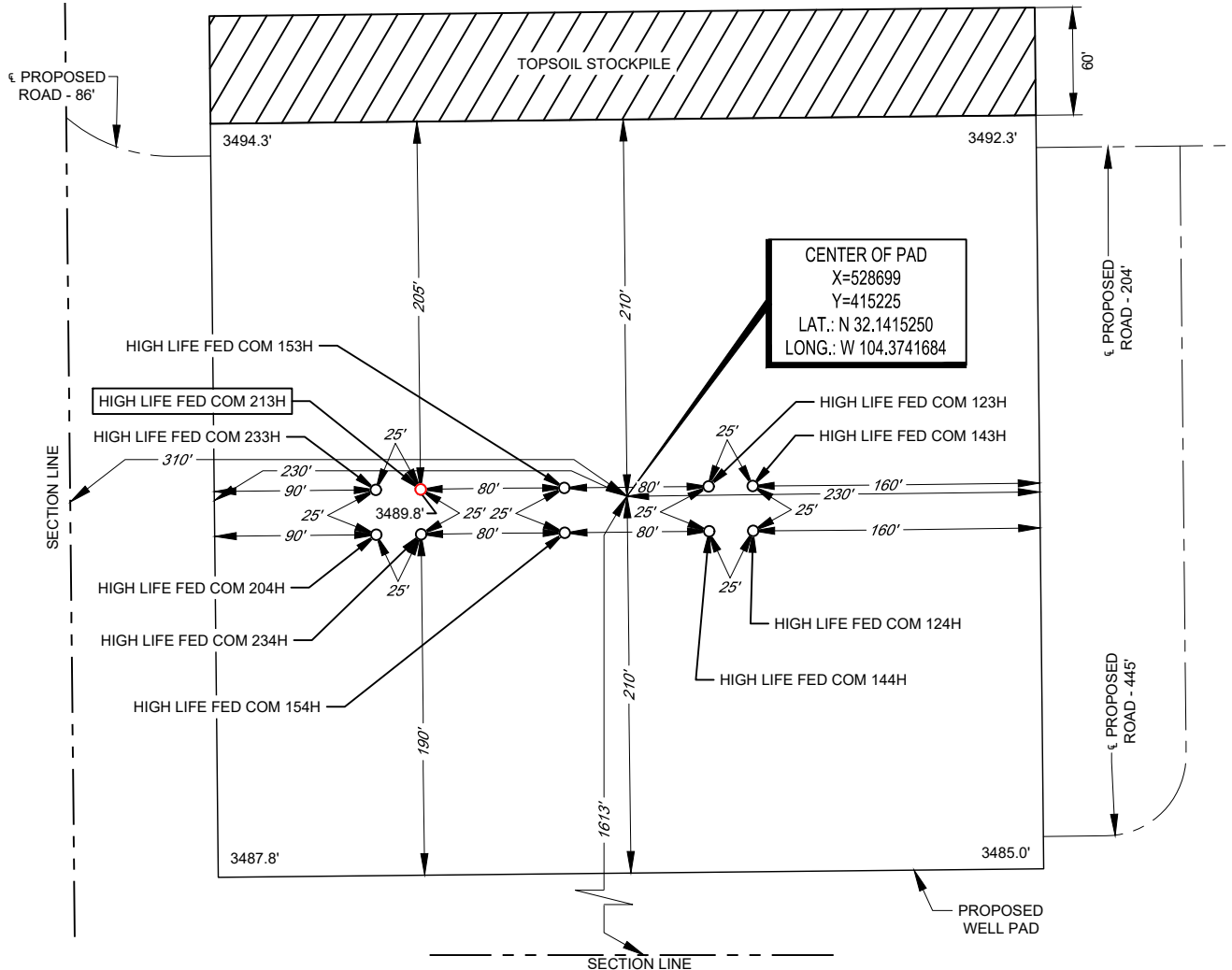
481 WINSBROTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX: (432) 682-1743
WWW.TOPOGRAPHIC.COM



SECTION 11, TOWNSHIP 25-S, RANGE 25-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

LEGEND
--- SECTION LINE
--- PROPOSED ROAD



LEASE NAME & WELL NO.: HIGH LIFE FED COM 213H
213H LATITUDE N 32.1415354 213H LONGITUDE W 104.3745401
CENTER OF PAD IS 1613' FSL & 310' FWL



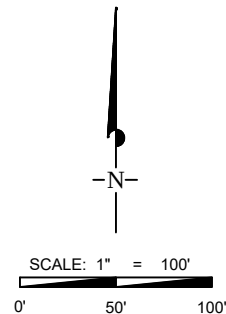
7/11/2024 7:22:33 AM

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"



481 WINSOTT 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

Tap Rock

Eddy County, NM (NAD83 - NM E)

High Life

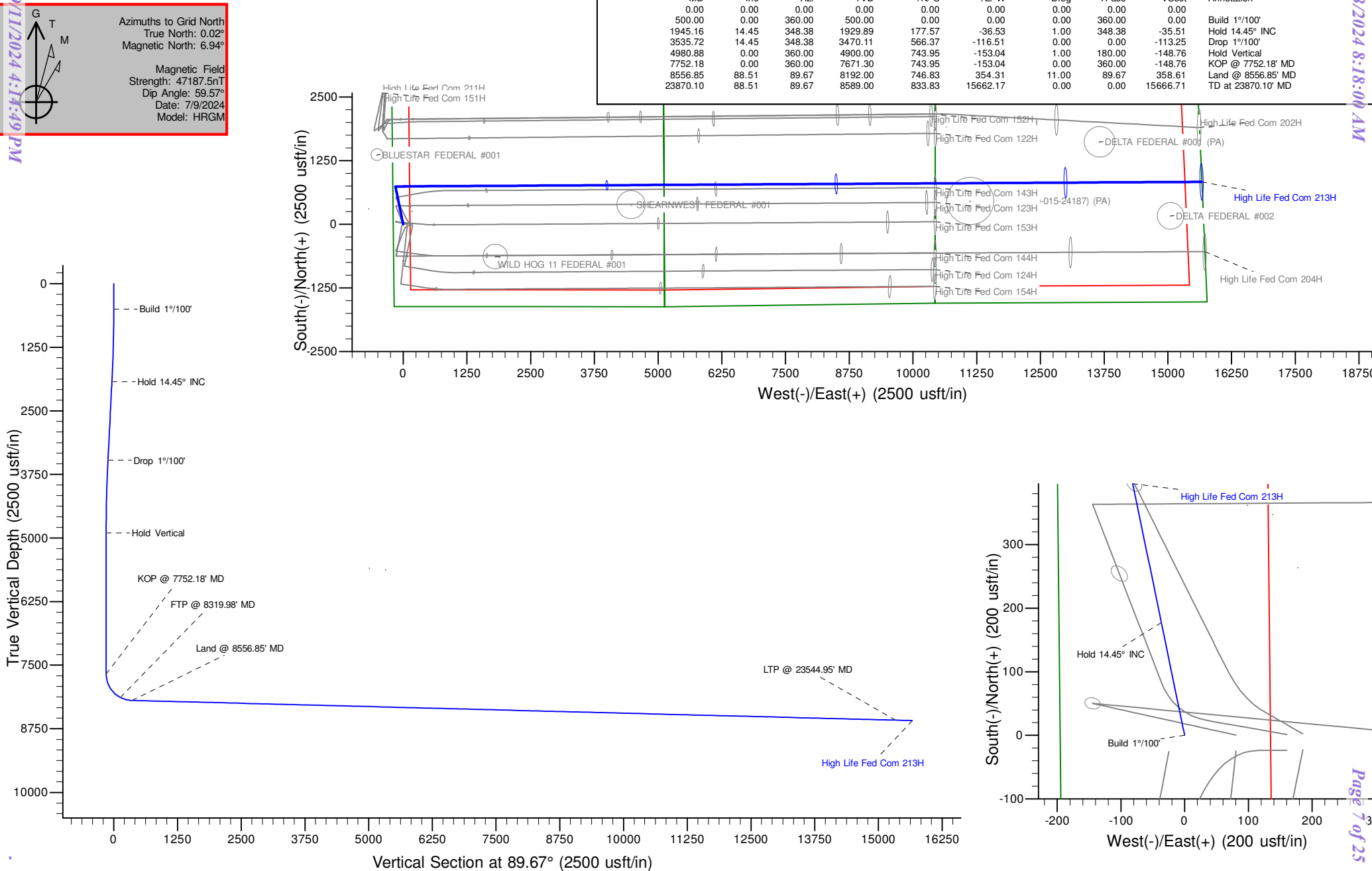
High Life Fed Com 213H

OH

Plan: Plan #1

Standard Planning Report

10 July, 2024



Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD83 - NM E)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	High Life				
Site Position:		Northing:	417,064.55 usft	Latitude:	32.146582
From:	Lat/Long	Easting:	528,014.11 usft	Longitude:	-104.376383
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	High Life Fed Com 213H					
Well Position	+N/-S	0.00 usft	Northing:	415,228.61 usft	Latitude:	32.141535
	+E/-W	0.00 usft	Easting:	528,583.56 usft	Longitude:	-104.374540
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,490.00 usft
Grid Convergence:	-0.02 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	7/9/2024	6.91	59.57	47,187.47578811

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.67

Plan Survey Tool Program			Date	7/10/2024	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	23,869.81	Plan #1 (OH)	MWD+HRGM	
				OWSG MWD + HRGM	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	360.00	500.00	0.00	0.00	0.00	0.00	0.00	360.00	
1,945.16	14.45	348.38	1,929.89	177.57	-36.53	1.00	1.00	0.00	348.38	
3,535.72	14.45	348.38	3,470.11	566.37	-116.51	0.00	0.00	0.00	0.00	
4,980.88	0.00	360.00	4,900.00	743.95	-153.04	1.00	-1.00	0.00	180.00	
7,752.18	0.00	360.00	7,671.30	743.95	-153.04	0.00	0.00	0.00	360.00	
8,556.85	88.51	89.67	8,192.00	746.83	354.31	11.00	11.00	11.14	89.67	
23,870.10	88.51	89.67	8,589.00	833.83	15,662.17	0.00	0.00	0.00	0.00	High Life 213H - BHL

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
340.00	0.00	0.00	340.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
600.00	1.00	348.38	599.99	0.85	-0.18	-0.17	1.00	1.00	0.00
700.00	2.00	348.38	699.96	3.42	-0.70	-0.68	1.00	1.00	0.00
800.00	3.00	348.38	799.86	7.69	-1.58	-1.54	1.00	1.00	0.00
900.00	4.00	348.38	899.68	13.67	-2.81	-2.73	1.00	1.00	0.00
1,000.00	5.00	348.38	999.37	21.36	-4.39	-4.27	1.00	1.00	0.00
1,100.00	6.00	348.38	1,098.90	30.74	-6.32	-6.15	1.00	1.00	0.00
1,200.00	7.00	348.38	1,198.26	41.83	-8.61	-8.36	1.00	1.00	0.00
1,242.07	7.42	348.38	1,240.00	47.00	-9.67	-9.40	1.00	1.00	0.00
Base Salt									
1,300.00	8.00	348.38	1,297.40	54.62	-11.24	-10.92	1.00	1.00	0.00
1,400.00	9.00	348.38	1,396.30	69.09	-14.21	-13.82	1.00	1.00	0.00
1,439.20	9.39	348.38	1,435.00	75.23	-15.48	-15.04	1.00	1.00	0.00
Delaware									
1,449.34	9.49	348.38	1,445.00	76.86	-15.81	-15.37	1.00	1.00	0.00
Lamar									
1,500.00	10.00	348.38	1,494.93	85.26	-17.54	-17.05	1.00	1.00	0.00
1,510.23	10.10	348.38	1,505.00	87.01	-17.90	-17.40	1.00	1.00	0.00
Bell									
1,550.88	10.51	348.38	1,545.00	94.13	-19.36	-18.82	1.00	1.00	0.00
Ramsey									
1,600.00	11.00	348.38	1,593.26	103.11	-21.21	-20.62	1.00	1.00	0.00
1,700.00	12.00	348.38	1,691.25	122.64	-25.23	-24.52	1.00	1.00	0.00
1,800.00	13.00	348.38	1,788.87	143.84	-29.59	-28.76	1.00	1.00	0.00
1,900.00	14.00	348.38	1,886.11	166.70	-34.29	-33.33	1.00	1.00	0.00
1,945.16	14.45	348.38	1,929.89	177.57	-36.53	-35.51	1.00	1.00	0.00
Hold 14.45° INC									
2,000.00	14.45	348.38	1,982.99	190.98	-39.29	-38.19	0.00	0.00	0.00
2,100.00	14.45	348.38	2,079.83	215.42	-44.32	-43.07	0.00	0.00	0.00
2,200.00	14.45	348.38	2,176.66	239.87	-49.35	-47.96	0.00	0.00	0.00
2,300.00	14.45	348.38	2,273.50	264.31	-54.37	-52.85	0.00	0.00	0.00
2,400.00	14.45	348.38	2,370.33	288.75	-59.40	-57.74	0.00	0.00	0.00
2,404.82	14.45	348.38	2,375.00	289.93	-59.64	-57.97	0.00	0.00	0.00
Cherry									
2,500.00	14.45	348.38	2,467.17	313.20	-64.43	-62.63	0.00	0.00	0.00
2,600.00	14.45	348.38	2,564.01	337.64	-69.46	-67.51	0.00	0.00	0.00
2,700.00	14.45	348.38	2,660.84	362.09	-74.49	-72.40	0.00	0.00	0.00
2,800.00	14.45	348.38	2,757.68	386.53	-79.52	-77.29	0.00	0.00	0.00
2,900.00	14.45	348.38	2,854.51	410.98	-84.55	-82.18	0.00	0.00	0.00
3,000.00	14.45	348.38	2,951.35	435.42	-89.57	-87.07	0.00	0.00	0.00
3,100.00	14.45	348.38	3,048.18	459.87	-94.60	-91.95	0.00	0.00	0.00
3,200.00	14.45	348.38	3,145.02	484.31	-99.63	-96.84	0.00	0.00	0.00
3,300.00	14.45	348.38	3,241.86	508.75	-104.66	-101.73	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,354.88	14.45	348.38	3,295.00	522.17	-107.42	-104.41	0.00	0.00	0.00	
Brushy										
3,400.00	14.45	348.38	3,338.69	533.20	-109.69	-106.62	0.00	0.00	0.00	
3,500.00	14.45	348.38	3,435.53	557.64	-114.72	-111.50	0.00	0.00	0.00	
3,535.72	14.45	348.38	3,470.11	566.37	-116.51	-113.25	0.00	0.00	0.00	
Drop 1°/100'										
3,600.00	13.81	348.38	3,532.45	581.74	-119.68	-116.32	1.00	-1.00	0.00	
3,700.00	12.81	348.38	3,629.77	604.29	-124.31	-120.83	1.00	-1.00	0.00	
3,800.00	11.81	348.38	3,727.47	625.17	-128.61	-125.01	1.00	-1.00	0.00	
3,900.00	10.81	348.38	3,825.52	644.38	-132.56	-128.85	1.00	-1.00	0.00	
4,000.00	9.81	348.38	3,923.91	661.91	-136.17	-132.35	1.00	-1.00	0.00	
4,100.00	8.81	348.38	4,022.59	677.75	-139.43	-135.52	1.00	-1.00	0.00	
4,200.00	7.81	348.38	4,121.54	691.90	-142.34	-138.35	1.00	-1.00	0.00	
4,300.00	6.81	348.38	4,220.73	704.37	-144.90	-140.84	1.00	-1.00	0.00	
4,400.00	5.81	348.38	4,320.12	715.13	-147.12	-142.99	1.00	-1.00	0.00	
4,500.00	4.81	348.38	4,419.69	724.19	-148.98	-144.81	1.00	-1.00	0.00	
4,600.00	3.81	348.38	4,519.40	731.55	-150.49	-146.28	1.00	-1.00	0.00	
4,700.00	2.81	348.38	4,619.24	737.20	-151.66	-147.41	1.00	-1.00	0.00	
4,800.00	1.81	348.38	4,719.15	741.15	-152.47	-148.20	1.00	-1.00	0.00	
4,900.00	0.81	348.38	4,819.13	743.39	-152.93	-148.64	1.00	-1.00	0.00	
4,980.88	0.00	360.00	4,900.00	743.95	-153.04	-148.76	1.00	-1.00	0.00	
Hold Vertical										
5,000.00	0.00	0.00	4,919.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,065.88	0.00	0.00	4,985.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
Bone Spring Lime										
5,100.00	0.00	0.00	5,019.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,125.88	0.00	0.00	5,045.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
Bone Spring Base										
5,200.00	0.00	0.00	5,119.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,219.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,319.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,430.88	0.00	0.00	5,350.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
Avalon Middle Old										
5,500.00	0.00	0.00	5,419.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,519.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,619.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,719.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,819.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
5,920.88	0.00	0.00	5,840.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
1st Bone Spring										
6,000.00	0.00	0.00	5,919.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,019.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,130.88	0.00	0.00	6,050.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
2nd Bone Spring FS										
6,200.00	0.00	0.00	6,119.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,219.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,319.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,495.88	0.00	0.00	6,415.00	743.95	-153.04	-148.76	0.00	0.00	0.00	
2nd Bone Spring Sand										
6,500.00	0.00	0.00	6,419.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,519.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,619.12	743.95	-153.04	-148.76	0.00	0.00	0.00	
6,785.88	0.00	0.00	6,705.00	743.95	-153.04	-148.76	0.00	0.00	0.00	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3rd Bone Spring Break Sand									
6,800.00	0.00	0.00	6,719.12	743.95	-153.04	-148.76	0.00	0.00	0.00
6,900.00	0.00	0.00	6,819.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,000.00	0.00	0.00	6,919.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,100.00	0.00	0.00	7,019.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,200.00	0.00	0.00	7,119.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,300.00	0.00	0.00	7,219.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,400.00	0.00	0.00	7,319.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,500.00	0.00	0.00	7,419.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,600.00	0.00	0.00	7,519.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,700.00	0.00	0.00	7,619.12	743.95	-153.04	-148.76	0.00	0.00	0.00
7,752.18	0.00	0.00	7,671.30	743.95	-153.04	-148.76	0.00	0.00	0.00
KOP @ 7752.18' MD									
7,760.88	0.96	89.67	7,680.00	743.95	-152.97	-148.68	11.00	11.00	0.00
3rd Bone Spring Sand									
7,800.00	5.26	89.67	7,719.06	743.96	-150.85	-146.56	11.00	11.00	0.00
7,850.00	10.76	89.67	7,768.55	744.00	-143.88	-139.60	11.00	11.00	0.00
7,900.00	16.26	89.67	7,817.15	744.06	-132.21	-127.92	11.00	11.00	0.00
7,950.00	21.76	89.67	7,864.40	744.16	-115.93	-111.64	11.00	11.00	0.00
8,000.00	27.26	89.67	7,909.88	744.27	-95.19	-90.90	11.00	11.00	0.00
8,005.78	27.90	89.67	7,915.00	744.29	-92.52	-88.23	11.00	11.00	0.00
3rd Bone Spring W Sand									
8,050.00	32.76	89.67	7,953.16	744.42	-70.19	-65.91	11.00	11.00	0.00
8,100.00	38.26	89.67	7,993.84	744.58	-41.16	-36.87	11.00	11.00	0.00
8,147.85	43.52	89.67	8,030.00	744.76	-9.85	-5.56	11.00	11.00	0.00
Wolfcamp A X									
8,150.00	43.76	89.67	8,031.56	744.77	-8.37	-4.08	11.00	11.00	0.00
8,200.00	49.26	89.67	8,065.96	744.97	27.89	32.18	11.00	11.00	0.00
8,247.03	54.43	89.67	8,095.00	745.18	64.86	69.15	11.00	11.00	0.00
Wolfcamp A Y									
8,250.00	54.76	89.67	8,096.72	745.20	67.28	71.58	11.00	11.00	0.00
8,300.00	60.26	89.67	8,123.57	745.44	109.44	113.73	11.00	11.00	0.00
8,319.98	62.46	89.67	8,133.14	745.54	126.98	131.27	11.00	11.00	0.00
FTP @ 8319.98' MD									
8,350.00	65.76	89.67	8,146.25	745.69	153.98	158.27	11.00	11.00	0.00
8,359.32	66.79	89.67	8,150.00	745.74	162.51	166.80	11.00	11.00	0.00
Wolfcamp A Lower									
8,400.00	71.26	89.67	8,164.56	745.95	200.48	204.78	11.00	11.00	0.00
8,450.00	76.76	89.67	8,178.33	746.23	248.53	252.82	11.00	11.00	0.00
8,500.00	82.26	89.67	8,187.43	746.51	297.68	301.97	11.00	11.00	0.00
8,550.00	87.76	89.67	8,191.77	746.79	347.47	351.76	11.00	11.00	0.00
8,556.85	88.51	89.67	8,192.00	746.83	354.31	358.61	11.00	11.00	0.00
Land @ 8556.85' MD									
8,600.00	88.51	89.67	8,193.11	747.07	397.45	401.74	0.00	0.00	0.00
8,700.00	88.51	89.67	8,195.71	747.64	497.41	501.71	0.00	0.00	0.00
8,800.00	88.51	89.67	8,198.30	748.21	597.38	601.68	0.00	0.00	0.00
8,900.00	88.51	89.67	8,200.89	748.78	697.34	701.64	0.00	0.00	0.00
9,000.00	88.51	89.67	8,203.48	749.35	797.31	801.61	0.00	0.00	0.00
9,100.00	88.51	89.67	8,206.08	749.91	897.27	901.58	0.00	0.00	0.00
9,200.00	88.51	89.67	8,208.67	750.48	997.24	1,001.54	0.00	0.00	0.00
9,300.00	88.51	89.67	8,211.26	751.05	1,097.20	1,101.51	0.00	0.00	0.00
9,400.00	88.51	89.67	8,213.85	751.62	1,197.17	1,201.47	0.00	0.00	0.00
9,500.00	88.51	89.67	8,216.45	752.19	1,297.13	1,301.44	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,600.00	88.51	89.67	8,219.04	752.75	1,397.09	1,401.41	0.00	0.00	0.00	
9,700.00	88.51	89.67	8,221.63	753.32	1,497.06	1,501.37	0.00	0.00	0.00	
9,800.00	88.51	89.67	8,224.23	753.89	1,597.02	1,601.34	0.00	0.00	0.00	
9,900.00	88.51	89.67	8,226.82	754.46	1,696.99	1,701.31	0.00	0.00	0.00	
10,000.00	88.51	89.67	8,229.41	755.03	1,796.95	1,801.27	0.00	0.00	0.00	
10,100.00	88.51	89.67	8,232.00	755.60	1,896.92	1,901.24	0.00	0.00	0.00	
10,200.00	88.51	89.67	8,234.60	756.16	1,996.88	2,001.21	0.00	0.00	0.00	
10,300.00	88.51	89.67	8,237.19	756.73	2,096.85	2,101.17	0.00	0.00	0.00	
10,400.00	88.51	89.67	8,239.78	757.30	2,196.81	2,201.14	0.00	0.00	0.00	
10,500.00	88.51	89.67	8,242.37	757.87	2,296.78	2,301.10	0.00	0.00	0.00	
10,600.00	88.51	89.67	8,244.97	758.44	2,396.74	2,401.07	0.00	0.00	0.00	
10,700.00	88.51	89.67	8,247.56	759.00	2,496.71	2,501.04	0.00	0.00	0.00	
10,800.00	88.51	89.67	8,250.15	759.57	2,596.67	2,601.00	0.00	0.00	0.00	
10,900.00	88.51	89.67	8,252.74	760.14	2,696.64	2,700.97	0.00	0.00	0.00	
11,000.00	88.51	89.67	8,255.34	760.71	2,796.60	2,800.94	0.00	0.00	0.00	
11,100.00	88.51	89.67	8,257.93	761.28	2,896.57	2,900.90	0.00	0.00	0.00	
11,200.00	88.51	89.67	8,260.52	761.84	2,996.53	3,000.87	0.00	0.00	0.00	
11,300.00	88.51	89.67	8,263.11	762.41	3,096.50	3,100.84	0.00	0.00	0.00	
11,400.00	88.51	89.67	8,265.71	762.98	3,196.46	3,200.80	0.00	0.00	0.00	
11,500.00	88.51	89.67	8,268.30	763.55	3,296.43	3,300.77	0.00	0.00	0.00	
11,565.64	88.51	89.67	8,270.00	763.92	3,362.04	3,366.38	0.00	0.00	0.00	
Wolfcamp B										
11,600.00	88.51	89.67	8,270.89	764.12	3,396.39	3,400.73	0.00	0.00	0.00	
11,700.00	88.51	89.67	8,273.48	764.69	3,496.36	3,500.70	0.00	0.00	0.00	
11,800.00	88.51	89.67	8,276.08	765.25	3,596.32	3,600.67	0.00	0.00	0.00	
11,900.00	88.51	89.67	8,278.67	765.82	3,696.28	3,700.63	0.00	0.00	0.00	
12,000.00	88.51	89.67	8,281.26	766.39	3,796.25	3,800.60	0.00	0.00	0.00	
12,100.00	88.51	89.67	8,283.85	766.96	3,896.21	3,900.57	0.00	0.00	0.00	
12,200.00	88.51	89.67	8,286.45	767.53	3,996.18	4,000.53	0.00	0.00	0.00	
12,300.00	88.51	89.67	8,289.04	768.09	4,096.14	4,100.50	0.00	0.00	0.00	
12,400.00	88.51	89.67	8,291.63	768.66	4,196.11	4,200.47	0.00	0.00	0.00	
12,500.00	88.51	89.67	8,294.22	769.23	4,296.07	4,300.43	0.00	0.00	0.00	
12,600.00	88.51	89.67	8,296.82	769.80	4,396.04	4,400.40	0.00	0.00	0.00	
12,700.00	88.51	89.67	8,299.41	770.37	4,496.00	4,500.37	0.00	0.00	0.00	
12,800.00	88.51	89.67	8,302.00	770.93	4,595.97	4,600.33	0.00	0.00	0.00	
12,900.00	88.51	89.67	8,304.59	771.50	4,695.93	4,700.30	0.00	0.00	0.00	
13,000.00	88.51	89.67	8,307.19	772.07	4,795.90	4,800.26	0.00	0.00	0.00	
13,100.00	88.51	89.67	8,309.78	772.64	4,895.86	4,900.23	0.00	0.00	0.00	
13,200.00	88.51	89.67	8,312.37	773.21	4,995.83	5,000.20	0.00	0.00	0.00	
13,300.00	88.51	89.67	8,314.96	773.78	5,095.79	5,100.16	0.00	0.00	0.00	
13,400.00	88.51	89.67	8,317.56	774.34	5,195.76	5,200.13	0.00	0.00	0.00	
13,500.00	88.51	89.67	8,320.15	774.91	5,295.72	5,300.10	0.00	0.00	0.00	
13,600.00	88.51	89.67	8,322.74	775.48	5,395.69	5,400.06	0.00	0.00	0.00	
13,700.00	88.51	89.67	8,325.33	776.05	5,495.65	5,500.03	0.00	0.00	0.00	
13,800.00	88.51	89.67	8,327.93	776.62	5,595.62	5,600.00	0.00	0.00	0.00	
13,900.00	88.51	89.67	8,330.52	777.18	5,695.58	5,699.96	0.00	0.00	0.00	
14,000.00	88.51	89.67	8,333.11	777.75	5,795.54	5,799.93	0.00	0.00	0.00	
14,100.00	88.51	89.67	8,335.70	778.32	5,895.51	5,899.89	0.00	0.00	0.00	
14,200.00	88.51	89.67	8,338.30	778.89	5,995.47	5,999.86	0.00	0.00	0.00	
14,300.00	88.51	89.67	8,340.89	779.46	6,095.44	6,099.83	0.00	0.00	0.00	
14,400.00	88.51	89.67	8,343.48	780.02	6,195.40	6,199.79	0.00	0.00	0.00	
14,500.00	88.51	89.67	8,346.08	780.59	6,295.37	6,299.76	0.00	0.00	0.00	
14,600.00	88.51	89.67	8,348.67	781.16	6,395.33	6,399.73	0.00	0.00	0.00	
14,700.00	88.51	89.67	8,351.26	781.73	6,495.30	6,499.69	0.00	0.00	0.00	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,800.00	88.51	89.67	8,353.85	782.30	6,595.26	6,599.66	0.00	0.00	0.00	
14,900.00	88.51	89.67	8,356.45	782.87	6,695.23	6,699.63	0.00	0.00	0.00	
15,000.00	88.51	89.67	8,359.04	783.43	6,795.19	6,799.59	0.00	0.00	0.00	
15,100.00	88.51	89.67	8,361.63	784.00	6,895.16	6,899.56	0.00	0.00	0.00	
15,200.00	88.51	89.67	8,364.22	784.57	6,995.12	6,999.52	0.00	0.00	0.00	
15,300.00	88.51	89.67	8,366.82	785.14	7,095.09	7,099.49	0.00	0.00	0.00	
15,400.00	88.51	89.67	8,369.41	785.71	7,195.05	7,199.46	0.00	0.00	0.00	
15,500.00	88.51	89.67	8,372.00	786.27	7,295.02	7,299.42	0.00	0.00	0.00	
15,600.00	88.51	89.67	8,374.59	786.84	7,394.98	7,399.39	0.00	0.00	0.00	
15,700.00	88.51	89.67	8,377.19	787.41	7,494.95	7,499.36	0.00	0.00	0.00	
15,800.00	88.51	89.67	8,379.78	787.98	7,594.91	7,599.32	0.00	0.00	0.00	
15,900.00	88.51	89.67	8,382.37	788.55	7,694.88	7,699.29	0.00	0.00	0.00	
16,000.00	88.51	89.67	8,384.96	789.11	7,794.84	7,799.26	0.00	0.00	0.00	
16,100.00	88.51	89.67	8,387.56	789.68	7,894.81	7,899.22	0.00	0.00	0.00	
16,200.00	88.51	89.67	8,390.15	790.25	7,994.77	7,999.19	0.00	0.00	0.00	
16,300.00	88.51	89.67	8,392.74	790.82	8,094.73	8,099.16	0.00	0.00	0.00	
16,400.00	88.51	89.67	8,395.33	791.39	8,194.70	8,199.12	0.00	0.00	0.00	
16,500.00	88.51	89.67	8,397.93	791.96	8,294.66	8,299.09	0.00	0.00	0.00	
16,600.00	88.51	89.67	8,400.52	792.52	8,394.63	8,399.05	0.00	0.00	0.00	
16,700.00	88.51	89.67	8,403.11	793.09	8,494.59	8,499.02	0.00	0.00	0.00	
16,800.00	88.51	89.67	8,405.70	793.66	8,594.56	8,598.99	0.00	0.00	0.00	
16,900.00	88.51	89.67	8,408.30	794.23	8,694.52	8,698.95	0.00	0.00	0.00	
17,000.00	88.51	89.67	8,410.89	794.80	8,794.49	8,798.92	0.00	0.00	0.00	
17,100.00	88.51	89.67	8,413.48	795.36	8,894.45	8,898.89	0.00	0.00	0.00	
17,200.00	88.51	89.67	8,416.07	795.93	8,994.42	8,998.85	0.00	0.00	0.00	
17,300.00	88.51	89.67	8,418.67	796.50	9,094.38	9,098.82	0.00	0.00	0.00	
17,400.00	88.51	89.67	8,421.26	797.07	9,194.35	9,198.79	0.00	0.00	0.00	
17,500.00	88.51	89.67	8,423.85	797.64	9,294.31	9,298.75	0.00	0.00	0.00	
17,600.00	88.51	89.67	8,426.44	798.20	9,394.28	9,398.72	0.00	0.00	0.00	
17,700.00	88.51	89.67	8,429.04	798.77	9,494.24	9,498.68	0.00	0.00	0.00	
17,800.00	88.51	89.67	8,431.63	799.34	9,594.21	9,598.65	0.00	0.00	0.00	
17,900.00	88.51	89.67	8,434.22	799.91	9,694.17	9,698.62	0.00	0.00	0.00	
18,000.00	88.51	89.67	8,436.81	800.48	9,794.14	9,798.58	0.00	0.00	0.00	
18,100.00	88.51	89.67	8,439.41	801.05	9,894.10	9,898.55	0.00	0.00	0.00	
18,200.00	88.51	89.67	8,442.00	801.61	9,994.07	9,998.52	0.00	0.00	0.00	
18,300.00	88.51	89.67	8,444.59	802.18	10,094.03	10,098.48	0.00	0.00	0.00	
18,400.00	88.51	89.67	8,447.18	802.75	10,193.99	10,198.45	0.00	0.00	0.00	
18,500.00	88.51	89.67	8,449.78	803.32	10,293.96	10,298.42	0.00	0.00	0.00	
18,600.00	88.51	89.67	8,452.37	803.89	10,393.92	10,398.38	0.00	0.00	0.00	
18,700.00	88.51	89.67	8,454.96	804.45	10,493.89	10,498.35	0.00	0.00	0.00	
18,800.00	88.51	89.67	8,457.55	805.02	10,593.85	10,598.31	0.00	0.00	0.00	
18,900.00	88.51	89.67	8,460.15	805.59	10,693.82	10,698.28	0.00	0.00	0.00	
19,000.00	88.51	89.67	8,462.74	806.16	10,793.78	10,798.25	0.00	0.00	0.00	
19,100.00	88.51	89.67	8,465.33	806.73	10,893.75	10,898.21	0.00	0.00	0.00	
19,200.00	88.51	89.67	8,467.93	807.29	10,993.71	10,998.18	0.00	0.00	0.00	
19,300.00	88.51	89.67	8,470.52	807.86	11,093.68	11,098.15	0.00	0.00	0.00	
19,400.00	88.51	89.67	8,473.11	808.43	11,193.64	11,198.11	0.00	0.00	0.00	
19,500.00	88.51	89.67	8,475.70	809.00	11,293.61	11,298.08	0.00	0.00	0.00	
19,600.00	88.51	89.67	8,478.30	809.57	11,393.57	11,398.05	0.00	0.00	0.00	
19,700.00	88.51	89.67	8,480.89	810.14	11,493.54	11,498.01	0.00	0.00	0.00	
19,800.00	88.51	89.67	8,483.48	810.70	11,593.50	11,597.98	0.00	0.00	0.00	
19,900.00	88.51	89.67	8,486.07	811.27	11,693.47	11,697.95	0.00	0.00	0.00	
20,000.00	88.51	89.67	8,488.67	811.84	11,793.43	11,797.91	0.00	0.00	0.00	
20,100.00	88.51	89.67	8,491.26	812.41	11,893.40	11,897.88	0.00	0.00	0.00	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,200.00	88.51	89.67	8,493.85	812.98	11,993.36	11,997.84	0.00	0.00	0.00	
20,300.00	88.51	89.67	8,496.44	813.54	12,093.33	12,097.81	0.00	0.00	0.00	
20,400.00	88.51	89.67	8,499.04	814.11	12,193.29	12,197.78	0.00	0.00	0.00	
20,500.00	88.51	89.67	8,501.63	814.68	12,293.26	12,297.74	0.00	0.00	0.00	
20,600.00	88.51	89.67	8,504.22	815.25	12,393.22	12,397.71	0.00	0.00	0.00	
20,700.00	88.51	89.67	8,506.81	815.82	12,493.18	12,497.68	0.00	0.00	0.00	
20,800.00	88.51	89.67	8,509.41	816.38	12,593.15	12,597.64	0.00	0.00	0.00	
20,900.00	88.51	89.67	8,512.00	816.95	12,693.11	12,697.61	0.00	0.00	0.00	
21,000.00	88.51	89.67	8,514.59	817.52	12,793.08	12,797.58	0.00	0.00	0.00	
21,100.00	88.51	89.67	8,517.18	818.09	12,893.04	12,897.54	0.00	0.00	0.00	
21,200.00	88.51	89.67	8,519.78	818.66	12,993.01	12,997.51	0.00	0.00	0.00	
21,300.00	88.51	89.67	8,522.37	819.23	13,092.97	13,097.47	0.00	0.00	0.00	
21,400.00	88.51	89.67	8,524.96	819.79	13,192.94	13,197.44	0.00	0.00	0.00	
21,500.00	88.51	89.67	8,527.55	820.36	13,292.90	13,297.41	0.00	0.00	0.00	
21,600.00	88.51	89.67	8,530.15	820.93	13,392.87	13,397.37	0.00	0.00	0.00	
21,700.00	88.51	89.67	8,532.74	821.50	13,492.83	13,497.34	0.00	0.00	0.00	
21,800.00	88.51	89.67	8,535.33	822.07	13,592.80	13,597.31	0.00	0.00	0.00	
21,900.00	88.51	89.67	8,537.92	822.63	13,692.76	13,697.27	0.00	0.00	0.00	
22,000.00	88.51	89.67	8,540.52	823.20	13,792.73	13,797.24	0.00	0.00	0.00	
22,100.00	88.51	89.67	8,543.11	823.77	13,892.69	13,897.21	0.00	0.00	0.00	
22,200.00	88.51	89.67	8,545.70	824.34	13,992.66	13,997.17	0.00	0.00	0.00	
22,300.00	88.51	89.67	8,548.29	824.91	14,092.62	14,097.14	0.00	0.00	0.00	
22,400.00	88.51	89.67	8,550.89	825.47	14,192.59	14,197.10	0.00	0.00	0.00	
22,500.00	88.51	89.67	8,553.48	826.04	14,292.55	14,297.07	0.00	0.00	0.00	
22,600.00	88.51	89.67	8,556.07	826.61	14,392.52	14,397.04	0.00	0.00	0.00	
22,700.00	88.51	89.67	8,558.66	827.18	14,492.48	14,497.00	0.00	0.00	0.00	
22,800.00	88.51	89.67	8,561.26	827.75	14,592.45	14,596.97	0.00	0.00	0.00	
22,900.00	88.51	89.67	8,563.85	828.32	14,692.41	14,696.94	0.00	0.00	0.00	
23,000.00	88.51	89.67	8,566.44	828.88	14,792.37	14,796.90	0.00	0.00	0.00	
23,100.00	88.51	89.67	8,569.03	829.45	14,892.34	14,896.87	0.00	0.00	0.00	
23,200.00	88.51	89.67	8,571.63	830.02	14,992.30	14,996.84	0.00	0.00	0.00	
23,300.00	88.51	89.67	8,574.22	830.59	15,092.27	15,096.80	0.00	0.00	0.00	
23,400.00	88.51	89.67	8,576.81	831.16	15,192.23	15,196.77	0.00	0.00	0.00	
23,500.00	88.51	89.67	8,579.41	831.72	15,292.20	15,296.74	0.00	0.00	0.00	
23,544.95	88.51	89.67	8,580.57	831.98	15,337.14	15,341.67	0.00	0.00	0.00	
LTP @ 23544.95' MD										
23,600.00	88.51	89.67	8,582.00	832.29	15,392.16	15,396.70	0.00	0.00	0.00	
23,700.00	88.51	89.67	8,584.59	832.86	15,492.13	15,496.67	0.00	0.00	0.00	
23,800.00	88.51	89.67	8,587.18	833.43	15,592.09	15,596.63	0.00	0.00	0.00	
23,870.10	88.51	89.67	8,589.00	833.83	15,662.17	15,666.71	0.00	0.00	0.00	
TD at 23870.10' MD										

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)		
High Life 213H - KOP	0.00	0.00	0.00	743.95	-153.04	415,972.55	528,430.51	32.143580	-104.375036
- plan misses target center by 759.52usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 213H - FTP	0.00	0.00	0.00	745.55	126.93	415,974.15	528,710.49	32.143585	-104.374131
- plan misses target center by 756.28usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 213H - FPP1	0.00	0.00	0.00	766.33	3,787.82	415,994.94	532,371.37	32.143645	-104.362303
- plan misses target center by 3864.56usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 213H - LTP	0.00	0.00	0.00	831.98	15,336.95	416,060.59	543,920.50	32.143829	-104.324988
- plan misses target center by 8577.68usft at 23322.31usft MD (8574.80 TVD, 830.71 N, 15114.57 E)									
- Point									
High Life 213H - FPP2	0.00	360.00	0.00	781.48	6,448.56	416,010.08	535,032.12	32.143689	-104.353706
- plan misses target center by 6495.74usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 213H - FPP3	0.00	0.01	0.00	804.17	10,445.86	416,032.77	539,029.42	32.143753	-104.340791
- plan misses target center by 8450.88usft at 18432.79usft MD (8448.03 TVD, 802.94 N, 10226.77 E)									
- Point									
High Life 213H - BHL	0.00	0.00	8,589.00	833.83	15,662.17	416,062.43	544,245.73	32.143834	-104.323937
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
40.00	40.00	Rustler				
340.00	340.00	Top Salt				
1,242.07	1,240.00	Base Salt				
1,439.20	1,435.00	Delaware				
1,449.34	1,445.00	Lamar				
1,510.23	1,505.00	Bell				
1,550.88	1,545.00	Ramsey				
2,404.82	2,375.00	Cherry				
3,354.88	3,295.00	Brushy				
5,065.88	4,985.00	Bone Spring Lime				
5,125.88	5,045.00	Bone Spring Base				
5,430.88	5,350.00	Avalon Middle Old				
5,920.88	5,840.00	1st Bone Spring				
6,130.88	6,050.00	2nd Bone Spring FS				
6,495.88	6,415.00	2nd Bone Spring Sand				
6,785.88	6,705.00	3rd Bone Spring Break Sand				
7,760.88	7,680.00	3rd Bone Spring Sand				
8,005.78	7,915.00	3rd Bone Spring W Sand				
8,147.85	8,030.00	Wolfcamp A X				
8,247.03	8,095.00	Wolfcamp A Y				
8,359.32	8,150.00	Wolfcamp A Lower				
11,565.64	8,270.00	Wolfcamp B				

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 213H
Company:	Tap Rock	TVD Reference:	RKB @ 3516.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3516.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	Build 1°/100'
1,945.16	1,929.89	177.57	-36.53	Hold 14.45° INC
3,535.72	3,470.11	566.37	-116.51	Drop 1°/100'
4,980.88	4,900.00	743.95	-153.04	Hold Vertical
7,752.18	7,671.30	743.95	-153.04	KOP @ 7752.18' MD
8,319.98	8,133.14	745.54	126.98	FTP @ 8319.98' MD
8,556.85	8,192.00	746.83	354.31	Land @ 8556.85' MD
23,544.95	8,580.57	831.98	15,337.14	LTP @ 23544.95' MD
23,870.10	8,589.00	833.83	15,662.17	TD at 23870.10' MD



Drilling Operations Plan
 High Life Fed Com #213H
 Tap Rock Operating, LLC
 SHL 1,616' FSL & 195' FWL, Sec. 11
 BHL 2,360' FSL & 5' FEL, Sec. 7
 T. 25S., R. 25E Eddy County, NM

Elevation above Sea Level: 3490'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	40	40	Anhydrite	None
Top Salt	400	400	Salt	Salt
Base Salt	1,240	1,242	Salt	Salt
DMG	1,435	1,439	Sandstone	None
Lamar	1,445	1,449	Sandstone	Hydrocarbons
Bell Canyon	1,505	1,510	Sandstone	Hydrocarbons
Ramsey Sand	1,545	1,551	Sandstone	Hydrocarbons
Cherry Canyon	2,375	2,405	Limestone	Hydrocarbons
Brushy Canyon	3,295	3,355	Sandstone	Hydrocarbons
Bone Spring Lime	4,985	5,066	Carbonate	Hydrocarbons
Upper Avalon	5,045	5,126	Carbonate	Hydrocarbons
Middle Avalon	5,350	5,431	Carbonate	Hydrocarbons
1st BS Sand	5,840	5,921	Sandstone	Hydrocarbons
2nd BS Carb	6,050	6,131	Carbonate	Hydrocarbons
2nd BS Sand	6,415	6,496	Sandstone	Hydrocarbons
3rd BS Sand	7,680	7,761	Sandstone	Hydrocarbons
Wolfcamp A	8,030	8,148	Shale	Hydrocarbons
KOP	7,671	7,752	Sandstone	Hydrocarbons
TD	8,589	23,870	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp A is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 23,870', a 5M 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
 High Life Fed Com #213H
 Tap Rock Operating, LLC
 SHL 1,616' FSL & 195' FWL, Sec. 11
 BHL 2,360' FSL & 5' FEL, Sec. 7
 T. 25S., R. 25E Eddy 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, 5000 psi high, and the annular preventer will be tested to 250 psi low, 2500 psi high.

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. If this well is batch drilled, after cementing a casing string, a 5M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. Tap Rock Operating requests to only test BOP connection breaks after rig walks per the procedures and stipulations set forth in the "BOP Shell Test Procedure" document emailed to the BLM on 8/11/22.

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	350	11 3/4	API	No	0	350	0	350	J-55	42	BUTT	1.13	1.15	1.6
Intermediate	11	350	1,499	8 5/8	API	No	0	1,499	0	1,495	J-55	32	BUTT	1.13	1.15	1.6
Production	7 7/8	1,499	23,870	6	NON API	No	0	23,870	0	8,589	P-110	24.5	W441	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	366	1.33	486	14.8	100%	C	5% NCI + LCM
Intermediate	Lead	0	141	2.7	381	11.0	75%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	999	124	1.33	165	14.8	30%	C	5% NaCl + LCM
Production	Lead	1299	327	3.35	1095	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	7752	2340	1.63	3814	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	350	FW Spud Mud	8.40	27-30	NC
Intermediate	350	1,499	Brine Water	10.00	27-30	NC
Production	1,499	23,870	FW/Cut Brine	9.00	27-30	NC



Drilling Operations Plan
High Life Fed Com #213H
Tap Rock Operating, LLC
SHL 1,616' FSL & 195' FWL, Sec. 11
BHL 2,360' FSL & 5' FEL, Sec. 7
T. 25S., R. 25E Eddy 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.
- 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 $\approx 3,962$ psi. Expected bottom hole temperature is $\approx 160^{\circ}$ F.

Tap Rock does not anticipate that there will be enough H₂S from the surface to the Wolfcamp A 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.

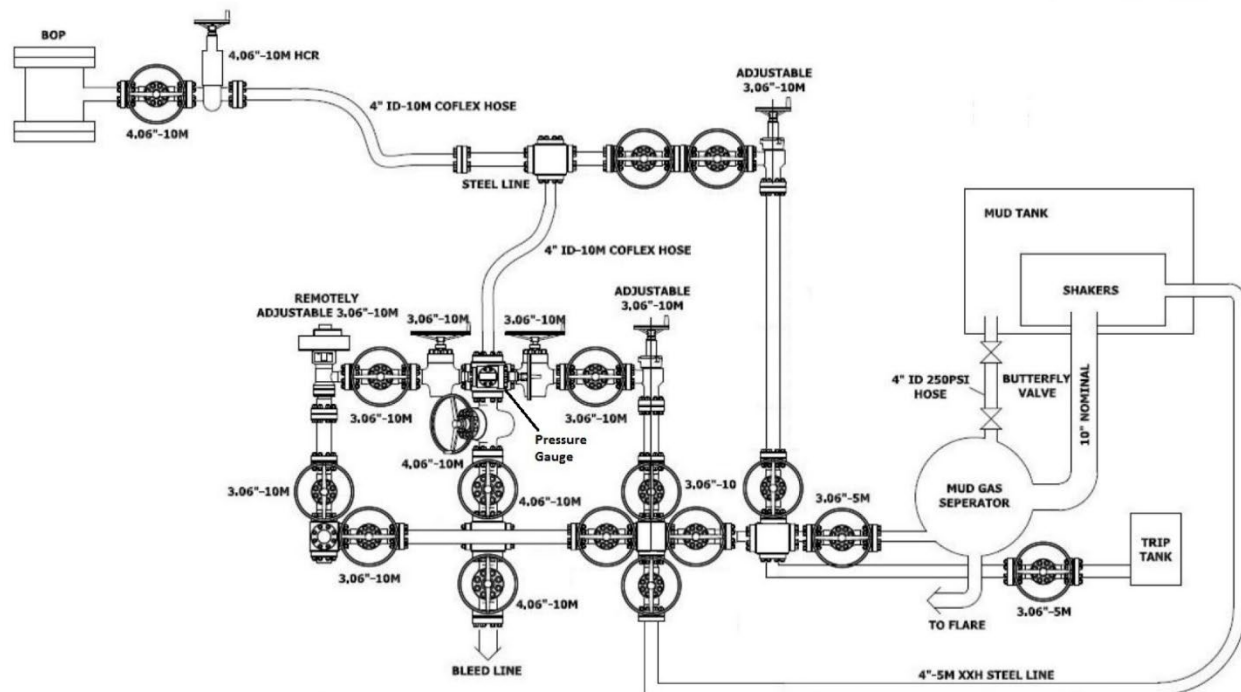
8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 15 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



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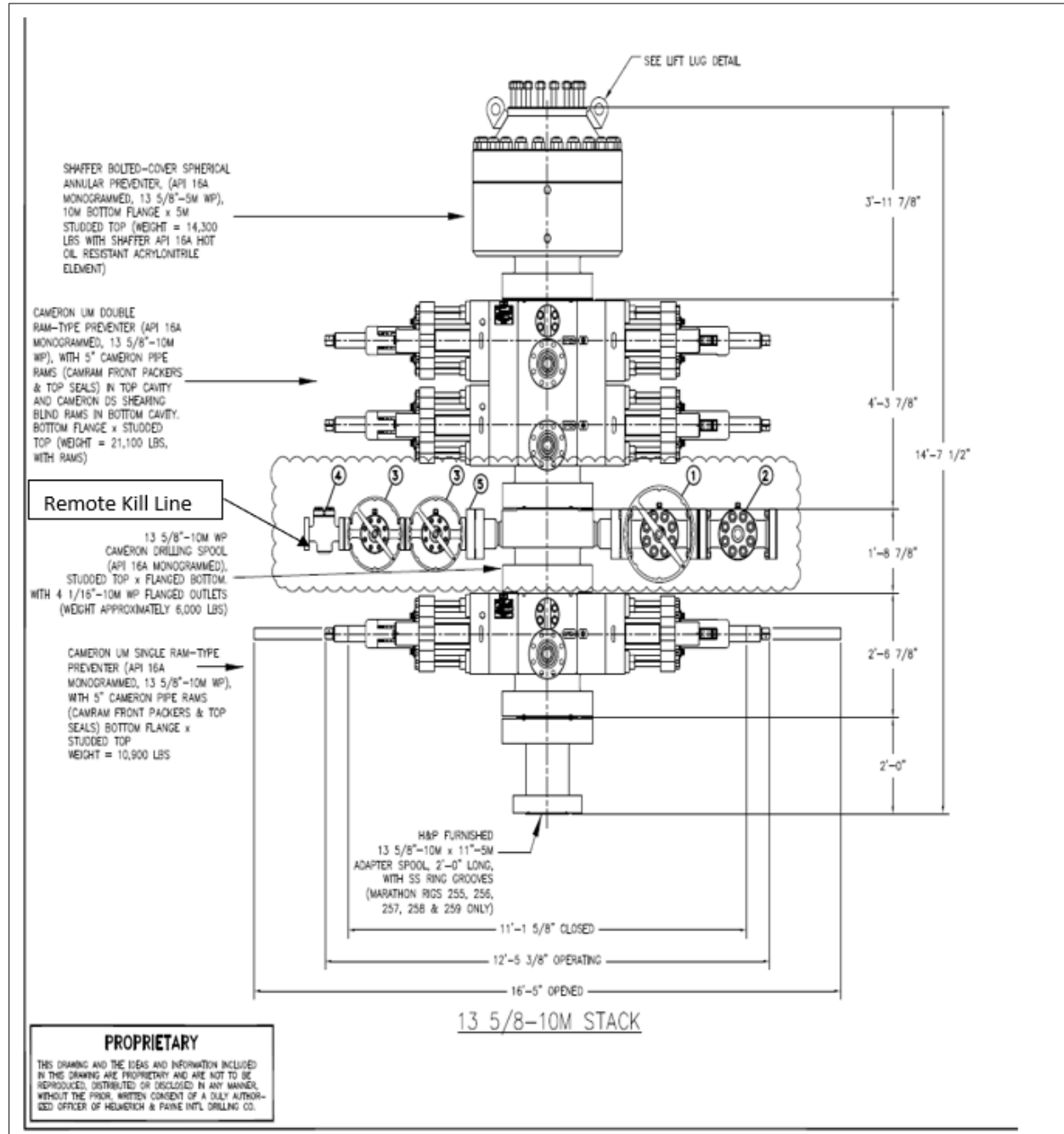
10M Choke Layout

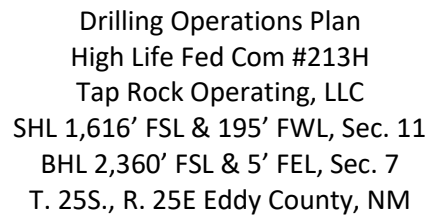




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10,000 psi BOP Stack

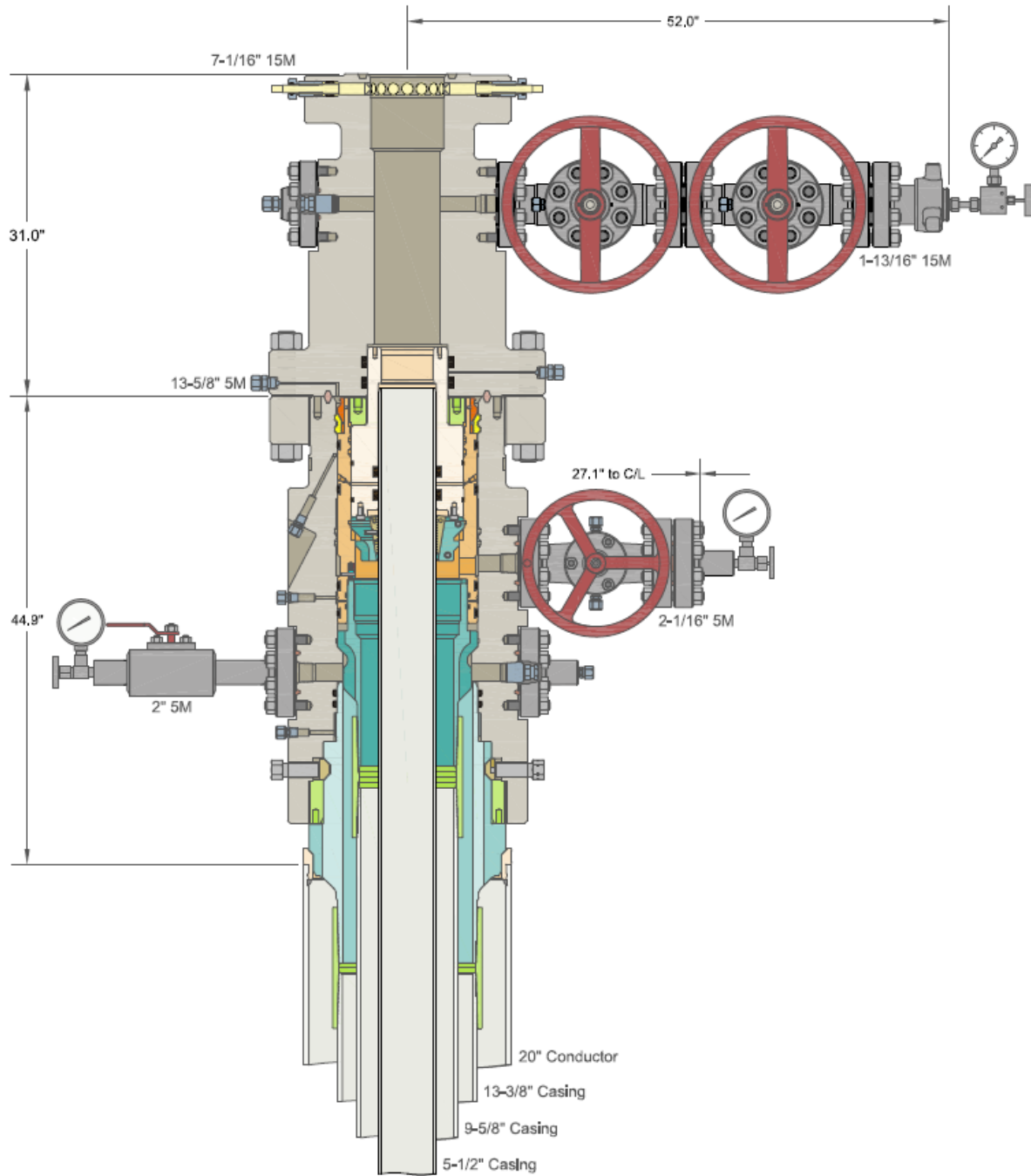






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Multi-bowl Wellhead Design





6.000" 24.50 lb/ft P110-ICY
TenarisHydril Wedge 441®



Preliminary
Special Data Sheet
TH DS-24.10506.00
17 July 2024

Customer: Diamondback

Nominal OD	6.000 in.	Wall Thickness	0.400 in.	Grade	P110-ICY
Min Wall Thickness	87.5%	Type	CASING	Connection OD Option	REGULAR

Pipe Body Data

Geometry			Performance		
Nominal OD	6.000 in.	Nominal ID	5.200 in.	Body Yield Strength	880 x 1000 lbs
Nominal Weight	24.50 lbs/ft	Wall Thickness	0.400 in.	Internal Yield	14580 psi
Standard Drift Diameter	5.075 in.	Plain End Weight	23.95 lbs/ft	SMYS	125000 psi
Special Drift Diameter	N/A	OD Tolerance	API	Collapse Pressure	12970 psi

Connection Data

Geometry		Performance		Make-up Torques	
Connection OD	6.450 in.	Tension Efficiency	81.6%	Minimum	20000 ft-lbs
Connection ID	5.200 in.	Joint Yield Strength	718 x 1000 lbs	Optimum	21000 ft-lbs
Make-up Loss	3.780 in.	Internal Yield	14580 psi	Maximum	25200 ft-lbs
Threads per in.	3.40	Compression Efficiency	81.6%	Operational Limit Torques	
Connection OD Option	REGULAR	Compression Strength	718 x 1000 lbs	Operating Torque	41000 ft-lbs
Coupling Length	8.714 in.	Bending	78 °/100 ft	Yield Torque	48000 ft-lbs
		Collapse	12970 psi	Buck-On Torques	
				Minimum	25200 ft-lbs
				Maximum	26700 ft-lbs

Notes

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

1.
- Important Note: In October 2019, TenarisHydril Wedge XP® 2.0 SL® was renamed TenarisHydril Wedge 441®. Product dimensions and properties remain identical and both connections are fully interchangeable.

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 373272

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 373272
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally if cement is not circulated to surface during cementing operations, then a CBL is required.	9/11/2024
ward.rikala	Must submit a C-102 on new C-102 form.	9/11/2024