

Well Name: HIGH LIFE FED COM	Well Location: T25S / R25E / SEC 10 / SENE / 32.1466505 / -104.3763832	County or Parish/State: EDDY / NM
Well Number: 211H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM91507	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001554530	Operator: TAP ROCK OPERATING LLC	

Notice of Intent

Sundry ID: 2801651

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/17/2024	Time Sundry Submitted: 04:57
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 211H 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 211H is: 392' FNL, 5' FEL of Section 12, T25S, R25E The new requested BHL for the 211H is: 393' FNL, 5' FEL of Section 7, T25S, R26E The previously approved TVD-MD for the 211H is 8,502ft TVD, 18,927ft MD The new requested TVD-MD for the 211H is 8,611ft TVD, 23,987ft 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_211H_REV2_Sundry_20240717164003.pdf
- Sundry_Drilling_Plan___High_Life_211H_07_15_2024_20240717164003.pdf
- High_Life_Fed_Com_211H_Plan_1_20240717163943.pdf
- TH_DS_24.10506.00_20240717163916.pdf

Received by OCD: 8/13/2024 8:15:18 AM

Page 2 of 26

Well Name: HIGH LIFE FED COM	Well Location: T25S / R25E / SEC 10 / SENE / 32.1466505 / -104.3763832	County or Parish/State: EDDY / NM
Well Number: 211H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM91507	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001554530	Operator: TAP ROCK OPERATING LLC	

Conditions of Approval

Additional

Sec_11_25S_25E_NMP_Sundry_2801651_High_Life_Fed_Com_211H_COAs_20240801072329.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: BILL RAMSEY

Signed on: JUL 17, 2024 04:57 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

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: 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

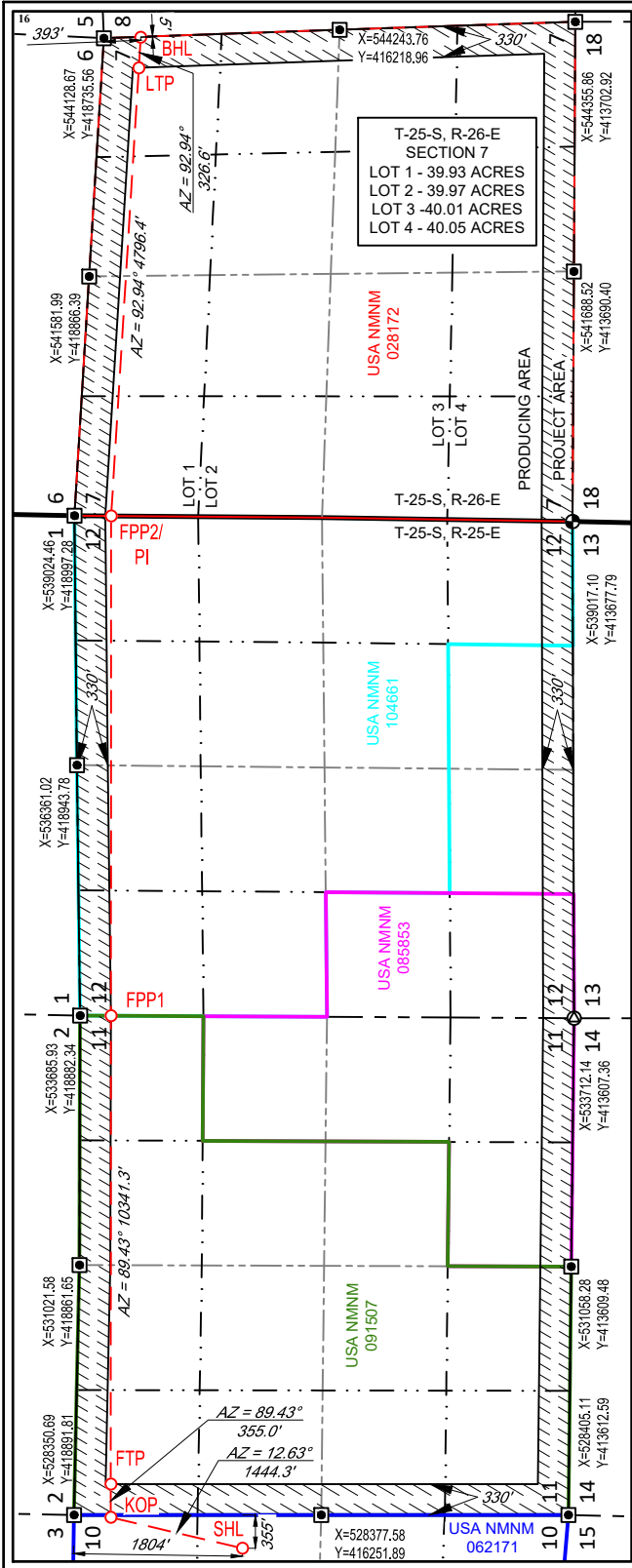
¹ API Number 30-015-54530	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 335064	⁵ Property Name HIGH LIFE FED COM	⁶ Well Number 211H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3512'

¹⁰ Surface Location									
UL or lot no. H	Section 10	Township 25-S	Range 25-E	Lot Idn -	Feet from the 1804'	North/South line NORTH	Feet from the 355'	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 7	Township 25-S	Range 26-E	Lot Idn -	Feet from the 393'	North/South line NORTH	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)

1804' FNL - SEC. 10
355' FEL - SEC. 10
X=528014 Y=417090
LAT.: N 32.1466505
LONG.: W 104.3763832

KICK OFF POINT (KOP)

393' FNL - SEC. 10
25' FEL - SEC. 10
X=528330 Y=418499
LAT.: N 32.1505249
LONG.: W 104.3753644

FIRST TAKE POINT (FTP)

386' FNL - SEC. 11
330' FWL - SEC. 11
X=528685 Y=418502
LAT.: N 32.1505350
LONG.: W 104.3742174

FED PERF. POINT (FPP1)

330' FNL - SEC. 12
0' FWL - SEC. 12
X=533688 Y=418552
LAT.: N 32.1506757
LONG.: W 104.3580516

FED PERF. POINT (FPP2)
POINT OF INTERSECTION (PI)

392' FNL - SEC. 12
0' FEL - SEC. 12
X=539025 Y=418605
LAT.: N 32.1508236
LONG.: W 104.3408041

LAST TAKE POINT (LTP)

392' FNL - SEC. 7
330' FWL - SEC. 7
X=543816 Y=418359
LAT.: N 32.1501474
LONG.: W 104.3253263

BOTTOM HOLE LOCATION (BHL)

393' FNL - SEC. 7
5' FEL - SEC. 7
X=544142 Y=418342
LAT.: N 32.1501013
LONG.: W 104.3242726

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.

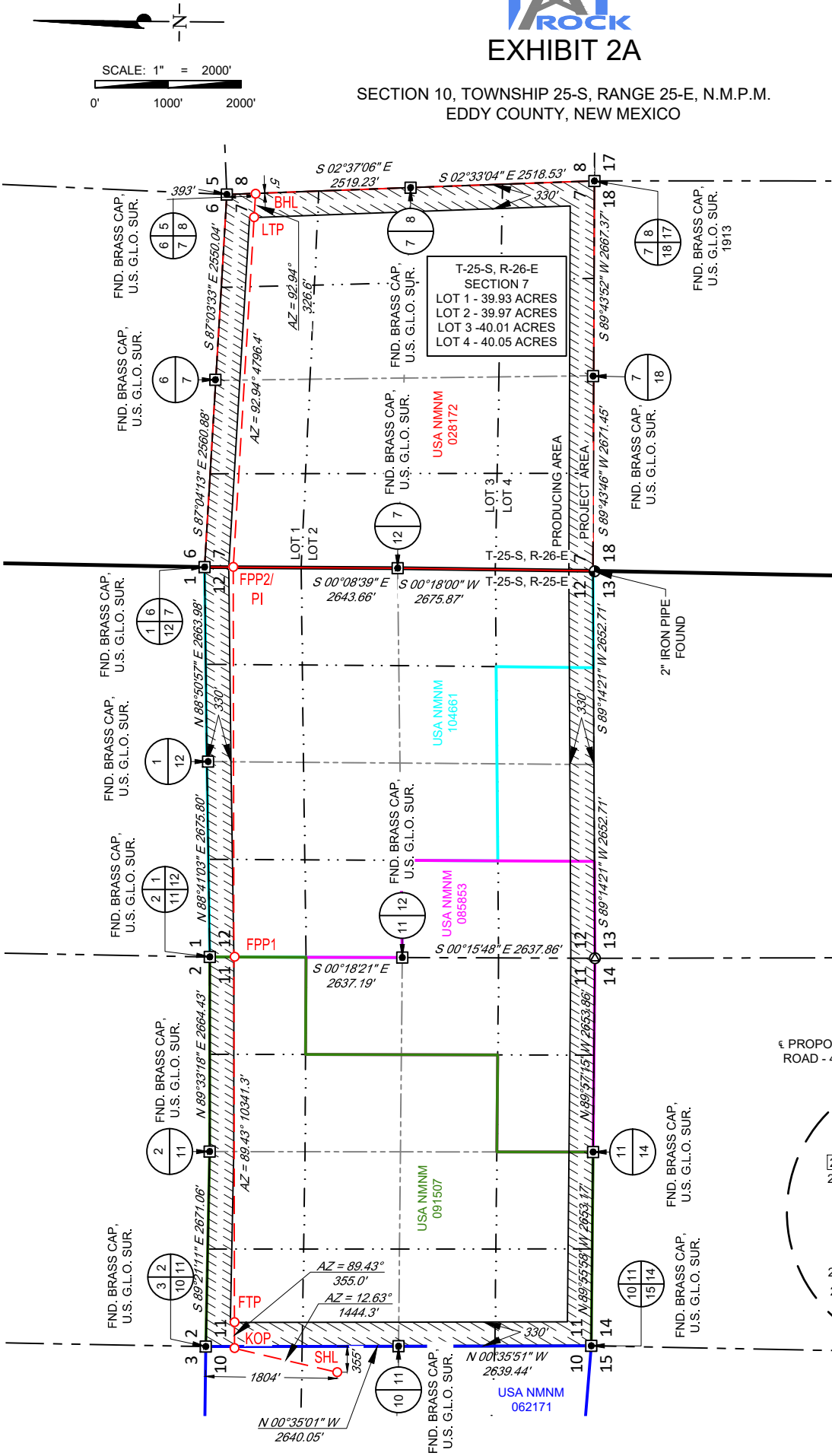
03/18/2023
Date of Survey

Ramon Dominguez
Signature and Seal of Professional Surveyor

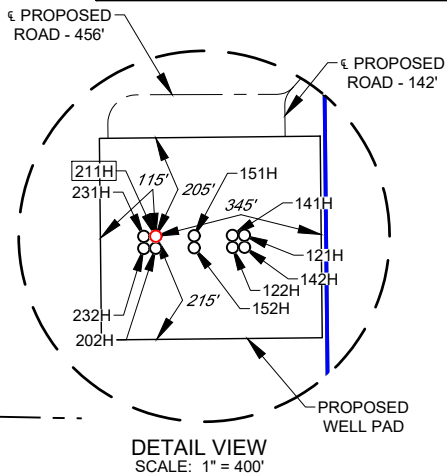
7/2/2024 12:43:59 PM
Certificate Number

TAP
ROCK
EXHIBIT 2A

SECTION 10, TOWNSHIP 25-S, RANGE 25-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
<u>SURFACE LOCATION (SHL)</u> 1804' FNL - SEC. 10 355' FEL - SEC. 10 X=528014 Y=417090 LAT.: N 32.1466505 LONG.: W 104.3763832
<u>KICK OFF POINT (KOP)</u> 393' FNL - SEC. 10 25' FEL - SEC. 10 X=528330 Y=418499 LAT.: N 32.1505249 LONG.: W 104.3753644
<u>FIRST TAKE POINT (FTP)</u> 386' FNL - SEC. 11 330' FWL - SEC. 11 X=528685 Y=418502 LAT.: N 32.1505350 LONG.: W 104.3742174
<u>FED PERF. POINT (FPP1)</u> 330' FNL - SEC. 12 0' FWL - SEC. 12 X=533688 Y=418552 LAT.: N 32.1506757 LONG.: W 104.3580516
<u>FED PERF. POINT (FPP2)</u> <u>POINT OF INTERSECTION (PI)</u> 392' FNL - SEC. 12 0' FEL - SEC. 12 X=539025 Y=418605 LAT.: N 32.1508236 LONG.: W 104.3408041
<u>LAST TAKE POINT (LTP)</u> 392' FNL - SEC. 7 330' FWL - SEC. 7 X=543816 Y=418359 LAT.: N 32.1501474 LONG.: W 104.3253263
<u>BOTTOM HOLE LOCATION (BHL)</u> 393' FNL - SEC. 7 5' FEL - SEC. 7 X=544142 Y=418342 LAT.: N 32.1501013 LONG.: W 104.3242726



LEASE NAME & WELL NO.: HIGH LIFE FED COM 211H

SECTION 10 TWP 25-S RGE 25-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1804' FNL & 355' FEL

DISTANCE & DIRECTION
FROM INT. OF BLACK RIVER VILLAGE RD.. & US-180 W/US-62 W. GO
SOUTHEAST 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. ±1.2
MILES, THENCE WEST (RIGHT) ON A PROPOSED RD. ±142 FEET TO A
POINT ±341 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.



7/2/2024 12:44:00 PM
Ramon A Dominguez, P.S. No. 24508

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSOTT 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

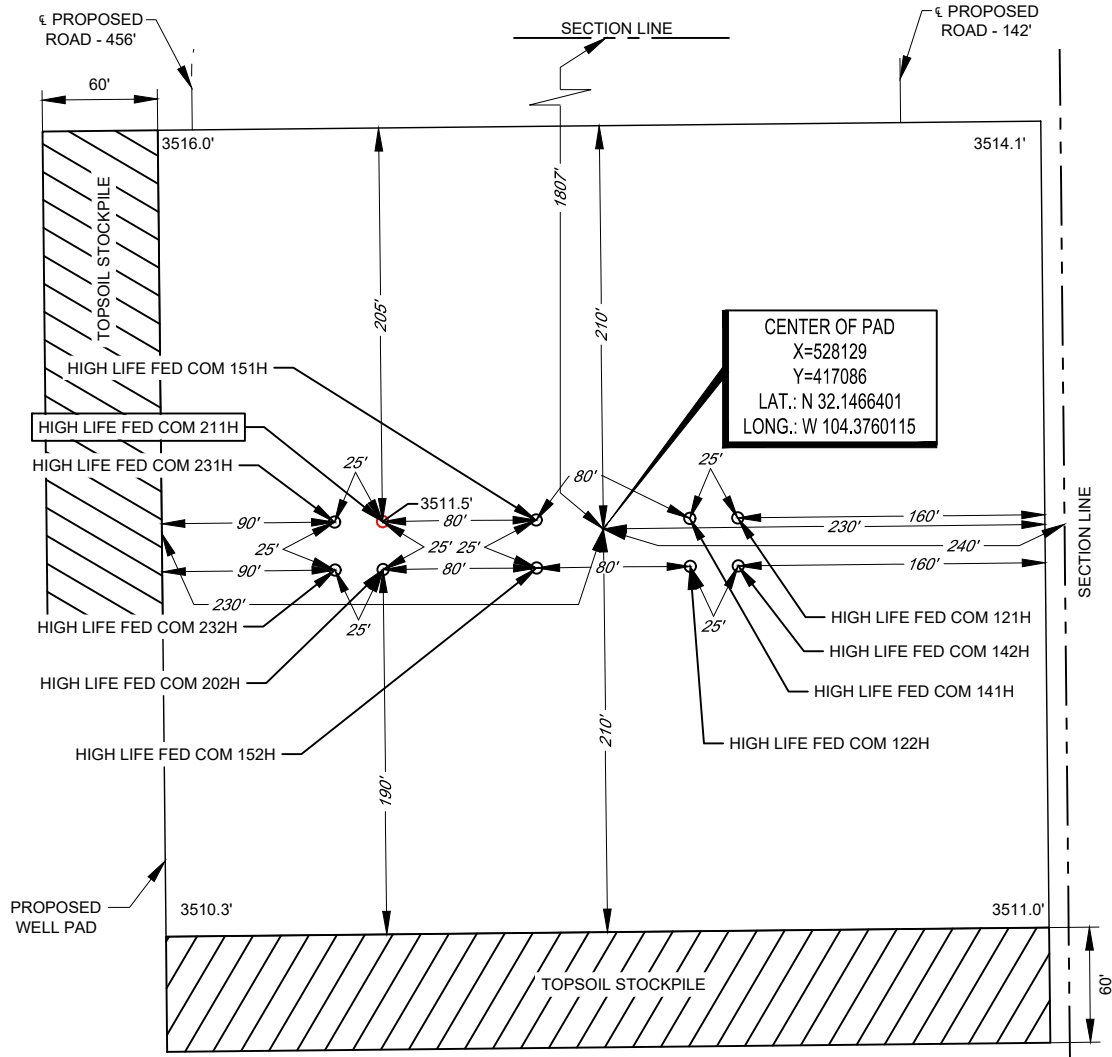
EXHIBIT 2B



SECTION 10, 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 211H
211H LATITUDE N 32.1466505 211H LONGITUDE W 104.3763832
CENTER OF PAD IS 1807' FNL & 240' FEL



7/2/2024 12:44:01 PM

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"



SCALE: 1" = 100'
0' 50' 100'



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WWW.TOPOGRAPHIC.COM

Tap Rock

Eddy County, NM (NAD83 - NM E)

High Life

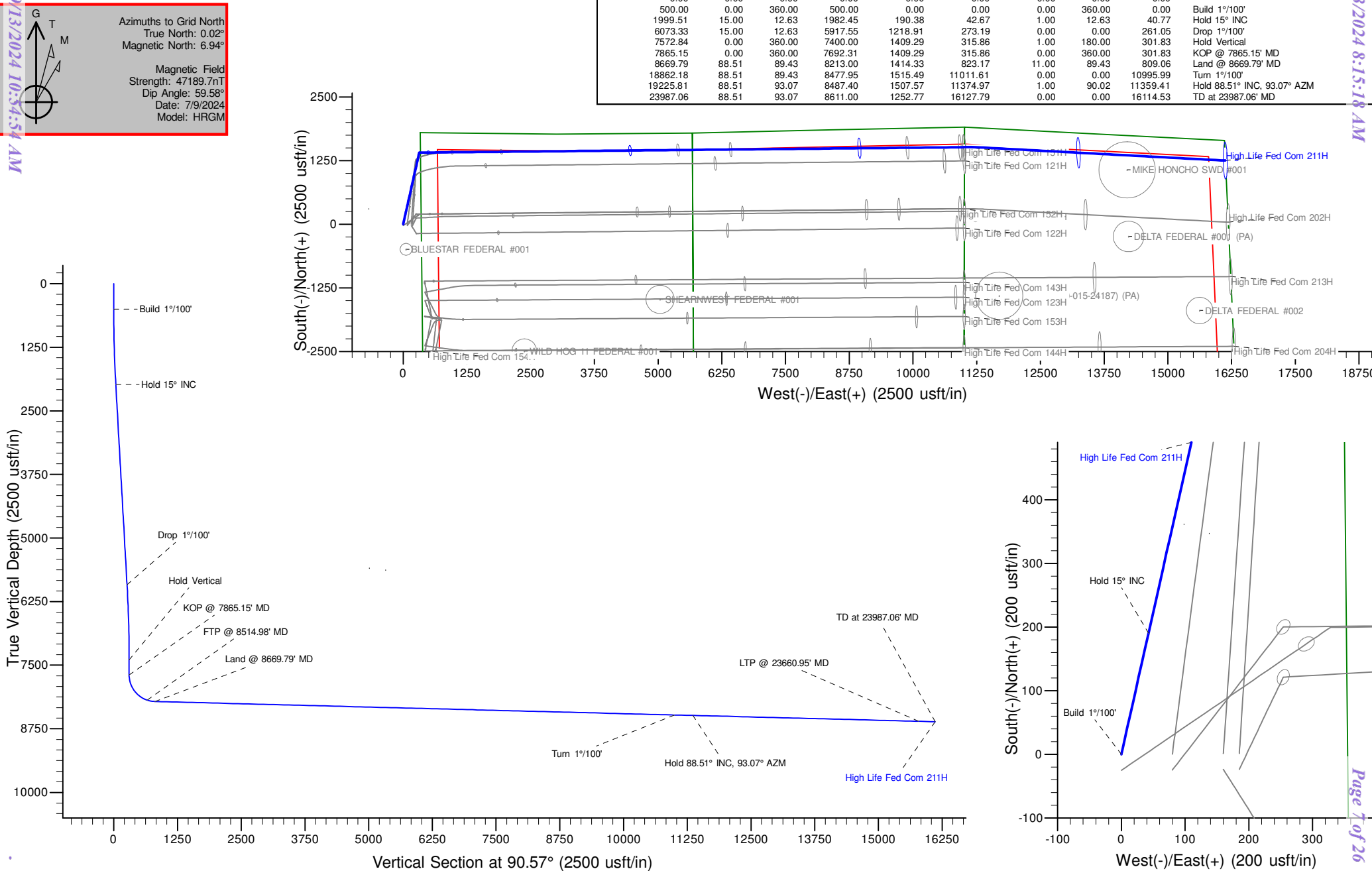
High Life Fed Com 211H

OH

Plan: Plan #1

Standard Planning Report

10 July, 2024



Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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
From:	Lat/Long	Easting:	528,014.11 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.146582
		Longitude:	-104.376383

Well	High Life Fed Com 211H					
Well Position	+N/-S	0.00 usft	Northing:	417,089.58 usft	Latitude:	32.146651
	+E/-W	0.00 usft	Easting:	528,013.84 usft	Longitude:	-104.376383
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,512.00 usft	
Grid Convergence:	-0.02 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	7/9/2024	6.92	59.58	47,189.65839277

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	90.57	

Plan Survey Tool Program	Date	7/9/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	23,987.06 Plan #1 (OH)	MWD+HRGM		
			OWSG MWD + HRGM		

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	
1,999.51	15.00	12.63	1,982.45	190.38	42.67	1.00	1.00	0.00	12.63	
6,073.33	15.00	12.63	5,917.55	1,218.91	273.19	0.00	0.00	0.00	0.00	
7,572.84	0.00	360.00	7,400.00	1,409.29	315.86	1.00	-1.00	0.00	180.00	
7,865.15	0.00	360.00	7,692.31	1,409.29	315.86	0.00	0.00	0.00	360.00	
8,669.79	88.51	89.43	8,213.00	1,414.33	823.17	11.00	11.00	11.11	89.43	
18,862.18	88.51	89.43	8,477.95	1,515.49	11,011.61	0.00	0.00	0.00	0.00	
19,225.81	88.51	93.07	8,487.40	1,507.57	11,374.97	1.00	0.00	1.00	90.02	
23,987.06	88.51	93.07	8,611.00	1,252.77	16,127.80	0.00	0.00	0.00	0.00	High Life 211H - BHL

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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
37.00	0.00	0.00	37.00	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
337.00	0.00	0.00	337.00	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	12.63	599.99	0.85	0.19	0.18	1.00	1.00	0.00
700.00	2.00	12.63	699.96	3.41	0.76	0.73	1.00	1.00	0.00
800.00	3.00	12.63	799.86	7.66	1.72	1.64	1.00	1.00	0.00
900.00	4.00	12.63	899.68	13.62	3.05	2.92	1.00	1.00	0.00
1,000.00	5.00	12.63	999.37	21.27	4.77	4.56	1.00	1.00	0.00
1,100.00	6.00	12.63	1,098.90	30.63	6.86	6.56	1.00	1.00	0.00
1,200.00	7.00	12.63	1,198.26	41.67	9.34	8.93	1.00	1.00	0.00
1,238.04	7.38	12.63	1,236.00	46.32	10.38	9.92	1.00	1.00	0.00
Base Salt									
1,300.00	8.00	12.63	1,297.40	54.41	12.19	11.65	1.00	1.00	0.00
1,400.00	9.00	12.63	1,396.30	68.83	15.43	14.74	1.00	1.00	0.00
1,466.58	9.67	12.63	1,462.00	79.37	17.79	17.00	1.00	1.00	0.00
Delaware									
1,467.59	9.68	12.63	1,463.00	79.53	17.83	17.03	1.00	1.00	0.00
Lamar									
1,497.02	9.97	12.63	1,492.00	84.43	18.92	18.08	1.00	1.00	0.00
Bell									
1,500.00	10.00	12.63	1,494.93	84.94	19.04	18.19	1.00	1.00	0.00
1,591.59	10.92	12.63	1,585.00	101.16	22.67	21.67	1.00	1.00	0.00
Ramsey									
1,600.00	11.00	12.63	1,593.26	102.72	23.02	22.00	1.00	1.00	0.00
1,700.00	12.00	12.63	1,691.25	122.17	27.38	26.17	1.00	1.00	0.00
1,800.00	13.00	12.63	1,788.87	143.29	32.12	30.69	1.00	1.00	0.00
1,900.00	14.00	12.63	1,886.11	166.07	37.22	35.57	1.00	1.00	0.00
1,999.51	15.00	12.63	1,982.45	190.38	42.67	40.77	1.00	1.00	0.00
Hold 15° INC									
2,100.00	15.00	12.63	2,079.52	215.75	48.36	46.21	0.00	0.00	0.00
2,200.00	15.00	12.63	2,176.11	241.00	54.01	51.61	0.00	0.00	0.00
2,300.00	15.00	12.63	2,272.71	266.25	59.67	57.02	0.00	0.00	0.00
2,400.00	15.00	12.63	2,369.30	291.49	65.33	62.43	0.00	0.00	0.00
2,442.13	15.00	12.63	2,410.00	302.13	67.72	64.71	0.00	0.00	0.00
Cherry									
2,500.00	15.00	12.63	2,465.90	316.74	70.99	67.84	0.00	0.00	0.00
2,600.00	15.00	12.63	2,562.49	341.99	76.65	73.24	0.00	0.00	0.00
2,700.00	15.00	12.63	2,659.09	367.24	82.31	78.65	0.00	0.00	0.00
2,800.00	15.00	12.63	2,755.68	392.48	87.97	84.06	0.00	0.00	0.00
2,900.00	15.00	12.63	2,852.28	417.73	93.63	89.46	0.00	0.00	0.00
3,000.00	15.00	12.63	2,948.87	442.98	99.28	94.87	0.00	0.00	0.00
3,100.00	15.00	12.63	3,045.47	468.22	104.94	100.28	0.00	0.00	0.00
3,200.00	15.00	12.63	3,142.06	493.47	110.60	105.69	0.00	0.00	0.00
3,300.00	15.00	12.63	3,238.66	518.72	116.26	111.09	0.00	0.00	0.00
3,394.56	15.00	12.63	3,330.00	542.59	121.61	116.21	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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)	
Brushy										
3,400.00	15.00	12.63	3,335.25	543.97	121.92	116.50	0.00	0.00	0.00	
3,500.00	15.00	12.63	3,431.85	569.21	127.58	121.91	0.00	0.00	0.00	
3,600.00	15.00	12.63	3,528.44	594.46	133.24	127.32	0.00	0.00	0.00	
3,700.00	15.00	12.63	3,625.04	619.71	138.89	132.72	0.00	0.00	0.00	
3,800.00	15.00	12.63	3,721.63	644.96	144.55	138.13	0.00	0.00	0.00	
3,900.00	15.00	12.63	3,818.22	670.20	150.21	143.54	0.00	0.00	0.00	
4,000.00	15.00	12.63	3,914.82	695.45	155.87	148.94	0.00	0.00	0.00	
4,100.00	15.00	12.63	4,011.41	720.70	161.53	154.35	0.00	0.00	0.00	
4,200.00	15.00	12.63	4,108.01	745.95	167.19	159.76	0.00	0.00	0.00	
4,300.00	15.00	12.63	4,204.60	771.19	172.85	165.17	0.00	0.00	0.00	
4,400.00	15.00	12.63	4,301.20	796.44	178.50	170.57	0.00	0.00	0.00	
4,500.00	15.00	12.63	4,397.79	821.69	184.16	175.98	0.00	0.00	0.00	
4,600.00	15.00	12.63	4,494.39	846.93	189.82	181.39	0.00	0.00	0.00	
4,700.00	15.00	12.63	4,590.98	872.18	195.48	186.79	0.00	0.00	0.00	
4,800.00	15.00	12.63	4,687.58	897.43	201.14	192.20	0.00	0.00	0.00	
4,900.00	15.00	12.63	4,784.17	922.68	206.80	197.61	0.00	0.00	0.00	
5,000.00	15.00	12.63	4,880.77	947.92	212.46	203.02	0.00	0.00	0.00	
5,100.00	15.00	12.63	4,977.36	973.17	218.12	208.42	0.00	0.00	0.00	
5,144.14	15.00	12.63	5,020.00	984.32	220.61	210.81	0.00	0.00	0.00	
Bone Spring										
5,200.00	15.00	12.63	5,073.96	998.42	223.77	213.83	0.00	0.00	0.00	
5,206.26	15.00	12.63	5,080.00	1,000.00	224.13	214.17	0.00	0.00	0.00	
Avalon										
5,300.00	15.00	12.63	5,170.55	1,023.67	229.43	219.24	0.00	0.00	0.00	
5,400.00	15.00	12.63	5,267.15	1,048.91	235.09	224.64	0.00	0.00	0.00	
5,500.00	15.00	12.63	5,363.74	1,074.16	240.75	230.05	0.00	0.00	0.00	
5,522.01	15.00	12.63	5,385.00	1,079.72	242.00	231.24	0.00	0.00	0.00	
Avalon Middle										
5,600.00	15.00	12.63	5,460.34	1,099.41	246.41	235.46	0.00	0.00	0.00	
5,700.00	15.00	12.63	5,556.93	1,124.65	252.07	240.87	0.00	0.00	0.00	
5,800.00	15.00	12.63	5,653.53	1,149.90	257.73	246.27	0.00	0.00	0.00	
5,900.00	15.00	12.63	5,750.12	1,175.15	263.38	251.68	0.00	0.00	0.00	
6,000.00	15.00	12.63	5,846.72	1,200.40	269.04	257.09	0.00	0.00	0.00	
6,029.28	15.00	12.63	5,875.00	1,207.79	270.70	258.67	0.00	0.00	0.00	
1st Bone Spring										
6,073.33	15.00	12.63	5,917.55	1,218.91	273.19	261.05	0.00	0.00	0.00	
Drop 1°/100'										
6,100.00	14.73	12.63	5,943.33	1,225.59	274.69	262.48	1.00	-1.00	0.00	
6,200.00	13.73	12.63	6,040.26	1,249.57	280.06	267.62	1.00	-1.00	0.00	
6,246.01	13.27	12.63	6,085.00	1,260.05	282.41	269.86	1.00	-1.00	0.00	
2nd Bone Spring FS										
6,300.00	12.73	12.63	6,137.60	1,271.90	285.07	272.40	1.00	-1.00	0.00	
6,400.00	11.73	12.63	6,235.33	1,292.57	289.70	276.83	1.00	-1.00	0.00	
6,500.00	10.73	12.63	6,333.42	1,311.57	293.96	280.90	1.00	-1.00	0.00	
6,600.00	9.73	12.63	6,431.83	1,328.89	297.84	284.61	1.00	-1.00	0.00	
6,623.50	9.49	12.63	6,455.00	1,332.72	298.70	285.43	1.00	-1.00	0.00	
2nd Bone Spring Sand										
6,700.00	8.73	12.63	6,530.53	1,344.54	301.35	287.96	1.00	-1.00	0.00	
6,800.00	7.73	12.63	6,629.50	1,358.51	304.48	290.95	1.00	-1.00	0.00	
6,900.00	6.73	12.63	6,728.70	1,370.79	307.23	293.58	1.00	-1.00	0.00	
7,000.00	5.73	12.63	6,828.11	1,381.37	309.60	295.85	1.00	-1.00	0.00	
7,100.00	4.73	12.63	6,927.70	1,390.26	311.60	297.75	1.00	-1.00	0.00	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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)
7,200.00	3.73	12.63	7,027.42	1,397.46	313.21	299.29	1.00	-1.00	0.00
7,297.74	2.75	12.63	7,125.00	1,402.85	314.42	300.45	1.00	-1.00	0.00
3rd Bone Spring Break Sand									
7,300.00	2.73	12.63	7,127.26	1,402.95	314.44	300.47	1.00	-1.00	0.00
7,400.00	1.73	12.63	7,227.19	1,406.75	315.29	301.28	1.00	-1.00	0.00
7,500.00	0.73	12.63	7,327.16	1,408.84	315.76	301.73	1.00	-1.00	0.00
7,572.84	0.00	0.00	7,400.00	1,409.29	315.86	301.83	1.00	-1.00	0.00
Hold Vertical									
7,600.00	0.00	0.00	7,427.16	1,409.29	315.86	301.83	0.00	0.00	0.00
7,700.00	0.00	0.00	7,527.16	1,409.29	315.86	301.83	0.00	0.00	0.00
7,800.00	0.00	0.00	7,627.16	1,409.29	315.86	301.83	0.00	0.00	0.00
7,865.15	0.00	0.00	7,692.31	1,409.29	315.86	301.83	0.00	0.00	0.00
KOP @ 7865.15' MD									
7,892.85	3.05	89.43	7,720.00	1,409.30	316.60	302.56	11.00	11.00	0.00
3rd Bone Spring Sand									
7,900.00	3.83	89.43	7,727.13	1,409.30	317.03	302.99	11.00	11.00	0.00
7,950.00	9.33	89.43	7,776.78	1,409.36	322.76	308.72	11.00	11.00	0.00
8,000.00	14.83	89.43	7,825.66	1,409.46	333.22	319.18	11.00	11.00	0.00
8,050.00	20.33	89.43	7,873.30	1,409.61	348.32	334.28	11.00	11.00	0.00
8,100.00	25.83	89.43	7,919.28	1,409.81	367.91	353.87	11.00	11.00	0.00
8,134.71	29.65	89.43	7,950.00	1,409.97	384.07	370.02	11.00	11.00	0.00
3rd Bone Spring W Sand									
8,150.00	31.33	89.43	7,963.17	1,410.05	391.82	377.78	11.00	11.00	0.00
8,200.00	36.83	89.43	8,004.57	1,410.32	419.83	405.78	11.00	11.00	0.00
8,250.00	42.33	89.43	8,043.09	1,410.64	451.68	437.62	11.00	11.00	0.00
8,280.47	45.69	89.43	8,065.00	1,410.85	472.85	458.79	11.00	11.00	0.00
Wolfcamp A X									
8,300.00	47.83	89.43	8,078.38	1,410.99	487.07	473.01	11.00	11.00	0.00
8,350.00	53.33	89.43	8,110.11	1,411.38	525.68	511.61	11.00	11.00	0.00
8,384.90	57.17	89.43	8,130.00	1,411.66	554.35	540.28	11.00	11.00	0.00
Wolfcamp A Y									
8,400.00	58.83	89.43	8,138.00	1,411.79	567.16	553.08	11.00	11.00	0.00
8,450.00	64.33	89.43	8,161.79	1,412.22	611.11	597.03	11.00	11.00	0.00
8,500.00	69.83	89.43	8,181.25	1,412.68	657.15	643.06	11.00	11.00	0.00
8,514.98	71.48	89.43	8,186.21	1,412.82	671.28	657.19	11.00	11.00	0.00
FTP @ 8514.98' MD									
8,527.35	72.84	89.43	8,190.00	1,412.94	683.06	668.97	11.00	11.00	0.00
Wolfcamp A Lower									
8,550.00	75.33	89.43	8,196.21	1,413.15	704.83	690.74	11.00	11.00	0.00
8,600.00	80.83	89.43	8,206.53	1,413.64	753.73	739.63	11.00	11.00	0.00
8,650.00	86.33	89.43	8,212.11	1,414.13	803.40	789.29	11.00	11.00	0.00
8,669.79	88.51	89.43	8,213.00	1,414.33	823.17	809.06	11.00	11.00	0.00
Land @ 8669.79' MD									
8,700.00	88.51	89.43	8,213.79	1,414.63	853.36	839.25	0.00	0.00	0.00
8,800.00	88.51	89.43	8,216.39	1,415.62	953.33	939.20	0.00	0.00	0.00
8,900.00	88.51	89.43	8,218.99	1,416.61	1,053.29	1,039.14	0.00	0.00	0.00
9,000.00	88.51	89.43	8,221.59	1,417.61	1,153.25	1,139.09	0.00	0.00	0.00
9,100.00	88.51	89.43	8,224.19	1,418.60	1,253.21	1,239.04	0.00	0.00	0.00
9,200.00	88.51	89.43	8,226.79	1,419.59	1,353.17	1,338.98	0.00	0.00	0.00
9,300.00	88.51	89.43	8,229.39	1,420.58	1,453.13	1,438.93	0.00	0.00	0.00
9,400.00	88.51	89.43	8,231.99	1,421.58	1,553.09	1,538.87	0.00	0.00	0.00
9,500.00	88.51	89.43	8,234.59	1,422.57	1,653.06	1,638.82	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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	89.43	8,237.19	1,423.56	1,753.02	1,738.77	0.00	0.00	0.00
9,700.00	88.51	89.43	8,239.78	1,424.55	1,852.98	1,838.71	0.00	0.00	0.00
9,800.00	88.51	89.43	8,242.38	1,425.55	1,952.94	1,938.66	0.00	0.00	0.00
9,900.00	88.51	89.43	8,244.98	1,426.54	2,052.90	2,038.61	0.00	0.00	0.00
10,000.00	88.51	89.43	8,247.58	1,427.53	2,152.86	2,138.55	0.00	0.00	0.00
10,100.00	88.51	89.43	8,250.18	1,428.52	2,252.82	2,238.50	0.00	0.00	0.00
10,200.00	88.51	89.43	8,252.78	1,429.52	2,352.78	2,338.45	0.00	0.00	0.00
10,300.00	88.51	89.43	8,255.38	1,430.51	2,452.75	2,438.39	0.00	0.00	0.00
10,400.00	88.51	89.43	8,257.98	1,431.50	2,552.71	2,538.34	0.00	0.00	0.00
10,500.00	88.51	89.43	8,260.58	1,432.49	2,652.67	2,638.29	0.00	0.00	0.00
10,600.00	88.51	89.43	8,263.18	1,433.49	2,752.63	2,738.23	0.00	0.00	0.00
10,700.00	88.51	89.43	8,265.78	1,434.48	2,852.59	2,838.18	0.00	0.00	0.00
10,800.00	88.51	89.43	8,268.38	1,435.47	2,952.55	2,938.13	0.00	0.00	0.00
10,900.00	88.51	89.43	8,270.98	1,436.46	3,052.51	3,038.07	0.00	0.00	0.00
11,000.00	88.51	89.43	8,273.58	1,437.46	3,152.47	3,138.02	0.00	0.00	0.00
11,100.00	88.51	89.43	8,276.18	1,438.45	3,252.44	3,237.96	0.00	0.00	0.00
11,200.00	88.51	89.43	8,278.78	1,439.44	3,352.40	3,337.91	0.00	0.00	0.00
11,300.00	88.51	89.43	8,281.38	1,440.43	3,452.36	3,437.86	0.00	0.00	0.00
11,400.00	88.51	89.43	8,283.98	1,441.43	3,552.32	3,537.80	0.00	0.00	0.00
11,500.00	88.51	89.43	8,286.57	1,442.42	3,652.28	3,637.75	0.00	0.00	0.00
11,600.00	88.51	89.43	8,289.17	1,443.41	3,752.24	3,737.70	0.00	0.00	0.00
11,700.00	88.51	89.43	8,291.77	1,444.41	3,852.20	3,837.64	0.00	0.00	0.00
11,800.00	88.51	89.43	8,294.37	1,445.40	3,952.16	3,937.59	0.00	0.00	0.00
11,900.00	88.51	89.43	8,296.97	1,446.39	4,052.13	4,037.54	0.00	0.00	0.00
12,000.00	88.51	89.43	8,299.57	1,447.38	4,152.09	4,137.48	0.00	0.00	0.00
12,100.00	88.51	89.43	8,302.17	1,448.38	4,252.05	4,237.43	0.00	0.00	0.00
12,200.00	88.51	89.43	8,304.77	1,449.37	4,352.01	4,337.38	0.00	0.00	0.00
12,300.00	88.51	89.43	8,307.37	1,450.36	4,451.97	4,437.32	0.00	0.00	0.00
12,400.00	88.51	89.43	8,309.97	1,451.35	4,551.93	4,537.27	0.00	0.00	0.00
12,401.18	88.51	89.43	8,310.00	1,451.36	4,553.11	4,538.45	0.00	0.00	0.00
Wolfcamp B									
12,500.00	88.51	89.43	8,312.57	1,452.35	4,651.89	4,637.22	0.00	0.00	0.00
12,600.00	88.51	89.43	8,315.17	1,453.34	4,751.86	4,737.16	0.00	0.00	0.00
12,700.00	88.51	89.43	8,317.77	1,454.33	4,851.82	4,837.11	0.00	0.00	0.00
12,800.00	88.51	89.43	8,320.37	1,455.32	4,951.78	4,937.05	0.00	0.00	0.00
12,900.00	88.51	89.43	8,322.97	1,456.32	5,051.74	5,037.00	0.00	0.00	0.00
13,000.00	88.51	89.43	8,325.57	1,457.31	5,151.70	5,136.95	0.00	0.00	0.00
13,100.00	88.51	89.43	8,328.17	1,458.30	5,251.66	5,236.89	0.00	0.00	0.00
13,200.00	88.51	89.43	8,330.77	1,459.29	5,351.62	5,336.84	0.00	0.00	0.00
13,300.00	88.51	89.43	8,333.36	1,460.29	5,451.58	5,436.79	0.00	0.00	0.00
13,400.00	88.51	89.43	8,335.96	1,461.28	5,551.55	5,536.73	0.00	0.00	0.00
13,500.00	88.51	89.43	8,338.56	1,462.27	5,651.51	5,636.68	0.00	0.00	0.00
13,600.00	88.51	89.43	8,341.16	1,463.26	5,751.47	5,736.63	0.00	0.00	0.00
13,700.00	88.51	89.43	8,343.76	1,464.26	5,851.43	5,836.57	0.00	0.00	0.00
13,800.00	88.51	89.43	8,346.36	1,465.25	5,951.39	5,936.52	0.00	0.00	0.00
13,900.00	88.51	89.43	8,348.96	1,466.24	6,051.35	6,036.47	0.00	0.00	0.00
14,000.00	88.51	89.43	8,351.56	1,467.23	6,151.31	6,136.41	0.00	0.00	0.00
14,100.00	88.51	89.43	8,354.16	1,468.23	6,251.27	6,236.36	0.00	0.00	0.00
14,200.00	88.51	89.43	8,356.76	1,469.22	6,351.24	6,336.31	0.00	0.00	0.00
14,300.00	88.51	89.43	8,359.36	1,470.21	6,451.20	6,436.25	0.00	0.00	0.00
14,400.00	88.51	89.43	8,361.96	1,471.20	6,551.16	6,536.20	0.00	0.00	0.00
14,500.00	88.51	89.43	8,364.56	1,472.20	6,651.12	6,636.14	0.00	0.00	0.00
14,600.00	88.51	89.43	8,367.16	1,473.19	6,751.08	6,736.09	0.00	0.00	0.00
14,700.00	88.51	89.43	8,369.76	1,474.18	6,851.04	6,836.04	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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	89.43	8,372.36	1,475.17	6,951.00	6,935.98	0.00	0.00	0.00
14,900.00	88.51	89.43	8,374.96	1,476.17	7,050.96	7,035.93	0.00	0.00	0.00
15,000.00	88.51	89.43	8,377.56	1,477.16	7,150.93	7,135.88	0.00	0.00	0.00
15,100.00	88.51	89.43	8,380.15	1,478.15	7,250.89	7,235.82	0.00	0.00	0.00
15,200.00	88.51	89.43	8,382.75	1,479.14	7,350.85	7,335.77	0.00	0.00	0.00
15,300.00	88.51	89.43	8,385.35	1,480.14	7,450.81	7,435.72	0.00	0.00	0.00
15,400.00	88.51	89.43	8,387.95	1,481.13	7,550.77	7,535.66	0.00	0.00	0.00
15,500.00	88.51	89.43	8,390.55	1,482.12	7,650.73	7,635.61	0.00	0.00	0.00
15,600.00	88.51	89.43	8,393.15	1,483.11	7,750.69	7,735.56	0.00	0.00	0.00
15,700.00	88.51	89.43	8,395.75	1,484.11	7,850.65	7,835.50	0.00	0.00	0.00
15,800.00	88.51	89.43	8,398.35	1,485.10	7,950.62	7,935.45	0.00	0.00	0.00
15,900.00	88.51	89.43	8,400.95	1,486.09	8,050.58	8,035.40	0.00	0.00	0.00
16,000.00	88.51	89.43	8,403.55	1,487.08	8,150.54	8,135.34	0.00	0.00	0.00
16,100.00	88.51	89.43	8,406.15	1,488.08	8,250.50	8,235.29	0.00	0.00	0.00
16,200.00	88.51	89.43	8,408.75	1,489.07	8,350.46	8,335.23	0.00	0.00	0.00
16,300.00	88.51	89.43	8,411.35	1,490.06	8,450.42	8,435.18	0.00	0.00	0.00
16,400.00	88.51	89.43	8,413.95	1,491.05	8,550.38	8,535.13	0.00	0.00	0.00
16,500.00	88.51	89.43	8,416.55	1,492.05	8,650.35	8,635.07	0.00	0.00	0.00
16,600.00	88.51	89.43	8,419.15	1,493.04	8,750.31	8,735.02	0.00	0.00	0.00
16,700.00	88.51	89.43	8,421.75	1,494.03	8,850.27	8,834.97	0.00	0.00	0.00
16,800.00	88.51	89.43	8,424.34	1,495.03	8,950.23	8,934.91	0.00	0.00	0.00
16,900.00	88.51	89.43	8,426.94	1,496.02	9,050.19	9,034.86	0.00	0.00	0.00
17,000.00	88.51	89.43	8,429.54	1,497.01	9,150.15	9,134.81	0.00	0.00	0.00
17,100.00	88.51	89.43	8,432.14	1,498.00	9,250.11	9,234.75	0.00	0.00	0.00
17,200.00	88.51	89.43	8,434.74	1,499.00	9,350.07	9,334.70	0.00	0.00	0.00
17,300.00	88.51	89.43	8,437.34	1,499.99	9,450.04	9,434.65	0.00	0.00	0.00
17,400.00	88.51	89.43	8,439.94	1,500.98	9,550.00	9,534.59	0.00	0.00	0.00
17,500.00	88.51	89.43	8,442.54	1,501.97	9,649.96	9,634.54	0.00	0.00	0.00
17,600.00	88.51	89.43	8,445.14	1,502.97	9,749.92	9,734.48	0.00	0.00	0.00
17,700.00	88.51	89.43	8,447.74	1,503.96	9,849.88	9,834.43	0.00	0.00	0.00
17,800.00	88.51	89.43	8,450.34	1,504.95	9,949.84	9,934.38	0.00	0.00	0.00
17,900.00	88.51	89.43	8,452.94	1,505.94	10,049.80	10,034.32	0.00	0.00	0.00
18,000.00	88.51	89.43	8,455.54	1,506.94	10,149.76	10,134.27	0.00	0.00	0.00
18,100.00	88.51	89.43	8,458.14	1,507.93	10,249.73	10,234.22	0.00	0.00	0.00
18,200.00	88.51	89.43	8,460.74	1,508.92	10,349.69	10,334.16	0.00	0.00	0.00
18,300.00	88.51	89.43	8,463.34	1,509.91	10,449.65	10,434.11	0.00	0.00	0.00
18,400.00	88.51	89.43	8,465.94	1,510.91	10,549.61	10,534.06	0.00	0.00	0.00
18,500.00	88.51	89.43	8,468.54	1,511.90	10,649.57	10,634.00	0.00	0.00	0.00
18,600.00	88.51	89.43	8,471.13	1,512.89	10,749.53	10,733.95	0.00	0.00	0.00
18,700.00	88.51	89.43	8,473.73	1,513.88	10,849.49	10,833.90	0.00	0.00	0.00
18,800.00	88.51	89.43	8,476.33	1,514.88	10,949.45	10,933.84	0.00	0.00	0.00
18,862.18	88.51	89.43	8,477.95	1,515.49	11,011.61	10,995.99	0.00	0.00	0.00
Turn 1°/100'									
18,900.00	88.51	89.81	8,478.93	1,515.74	11,049.42	11,033.79	1.00	0.00	1.00
19,000.00	88.51	90.81	8,481.53	1,515.20	11,149.38	11,133.76	1.00	0.00	1.00
19,100.00	88.51	91.81	8,484.13	1,512.92	11,249.32	11,233.71	1.00	0.00	1.00
19,200.00	88.51	92.81	8,486.73	1,508.89	11,349.20	11,333.63	1.00	0.00	1.00
19,225.81	88.51	93.07	8,487.40	1,507.57	11,374.97	11,359.41	1.00	0.00	1.00
Hold 88.51° INC, 93.07° AZM									
19,300.00	88.51	93.07	8,489.33	1,503.60	11,449.03	11,433.50	0.00	0.00	0.00
19,400.00	88.51	93.07	8,491.92	1,498.24	11,548.85	11,533.38	0.00	0.00	0.00
19,500.00	88.51	93.07	8,494.52	1,492.89	11,648.67	11,633.25	0.00	0.00	0.00
19,600.00	88.51	93.07	8,497.11	1,487.54	11,748.50	11,733.12	0.00	0.00	0.00
19,700.00	88.51	93.07	8,499.71	1,482.19	11,848.32	11,832.99	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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)
19,800.00	88.51	93.07	8,502.31	1,476.84	11,948.14	11,932.86	0.00	0.00	0.00
19,900.00	88.51	93.07	8,504.90	1,471.49	12,047.97	12,032.73	0.00	0.00	0.00
20,000.00	88.51	93.07	8,507.50	1,466.14	12,147.79	12,132.60	0.00	0.00	0.00
20,100.00	88.51	93.07	8,510.09	1,460.78	12,247.61	12,232.47	0.00	0.00	0.00
20,200.00	88.51	93.07	8,512.69	1,455.43	12,347.44	12,332.35	0.00	0.00	0.00
20,300.00	88.51	93.07	8,515.29	1,450.08	12,447.26	12,432.22	0.00	0.00	0.00
20,400.00	88.51	93.07	8,517.88	1,444.73	12,547.08	12,532.09	0.00	0.00	0.00
20,500.00	88.51	93.07	8,520.48	1,439.38	12,646.90	12,631.96	0.00	0.00	0.00
20,600.00	88.51	93.07	8,523.07	1,434.03	12,746.73	12,731.83	0.00	0.00	0.00
20,700.00	88.51	93.07	8,525.67	1,428.68	12,846.55	12,831.70	0.00	0.00	0.00
20,800.00	88.51	93.07	8,528.26	1,423.33	12,946.37	12,931.57	0.00	0.00	0.00
20,900.00	88.51	93.07	8,530.86	1,417.97	13,046.20	13,031.44	0.00	0.00	0.00
21,000.00	88.51	93.07	8,533.46	1,412.62	13,146.02	13,131.32	0.00	0.00	0.00
21,100.00	88.51	93.07	8,536.05	1,407.27	13,245.84	13,231.19	0.00	0.00	0.00
21,200.00	88.51	93.07	8,538.65	1,401.92	13,345.67	13,331.06	0.00	0.00	0.00
21,300.00	88.51	93.07	8,541.24	1,396.57	13,445.49	13,430.93	0.00	0.00	0.00
21,400.00	88.51	93.07	8,543.84	1,391.22	13,545.31	13,530.80	0.00	0.00	0.00
21,500.00	88.51	93.07	8,546.44	1,385.87	13,645.13	13,630.67	0.00	0.00	0.00
21,600.00	88.51	93.07	8,549.03	1,380.51	13,744.96	13,730.54	0.00	0.00	0.00
21,700.00	88.51	93.07	8,551.63	1,375.16	13,844.78	13,830.41	0.00	0.00	0.00
21,800.00	88.51	93.07	8,554.22	1,369.81	13,944.60	13,930.29	0.00	0.00	0.00
21,900.00	88.51	93.07	8,556.82	1,364.46	14,044.43	14,030.16	0.00	0.00	0.00
22,000.00	88.51	93.07	8,559.42	1,359.11	14,144.25	14,130.03	0.00	0.00	0.00
22,100.00	88.51	93.07	8,562.01	1,353.76	14,244.07	14,229.90	0.00	0.00	0.00
22,200.00	88.51	93.07	8,564.61	1,348.41	14,343.89	14,329.77	0.00	0.00	0.00
22,300.00	88.51	93.07	8,567.20	1,343.06	14,443.72	14,429.64	0.00	0.00	0.00
22,400.00	88.51	93.07	8,569.80	1,337.70	14,543.54	14,529.51	0.00	0.00	0.00
22,500.00	88.51	93.07	8,572.40	1,332.35	14,643.36	14,629.38	0.00	0.00	0.00
22,600.00	88.51	93.07	8,574.99	1,327.00	14,743.19	14,729.26	0.00	0.00	0.00
22,700.00	88.51	93.07	8,577.59	1,321.65	14,843.01	14,829.13	0.00	0.00	0.00
22,800.00	88.51	93.07	8,580.18	1,316.30	14,942.83	14,929.00	0.00	0.00	0.00
22,900.00	88.51	93.07	8,582.78	1,310.95	15,042.66	15,028.87	0.00	0.00	0.00
23,000.00	88.51	93.07	8,585.38	1,305.60	15,142.48	15,128.74	0.00	0.00	0.00
23,100.00	88.51	93.07	8,587.97	1,300.24	15,242.30	15,228.61	0.00	0.00	0.00
23,200.00	88.51	93.07	8,590.57	1,294.89	15,342.12	15,328.48	0.00	0.00	0.00
23,300.00	88.51	93.07	8,593.16	1,289.54	15,441.95	15,428.35	0.00	0.00	0.00
23,400.00	88.51	93.07	8,595.76	1,284.19	15,541.77	15,528.23	0.00	0.00	0.00
23,500.00	88.51	93.07	8,598.36	1,278.84	15,641.59	15,628.10	0.00	0.00	0.00
23,600.00	88.51	93.07	8,600.95	1,273.49	15,741.42	15,727.97	0.00	0.00	0.00
23,660.95	88.51	93.07	8,602.53	1,270.23	15,802.26	15,788.84	0.00	0.00	0.00
LTP @ 23660.95' MD									
23,700.00	88.51	93.07	8,603.55	1,268.14	15,841.24	15,827.84	0.00	0.00	0.00
23,800.00	88.51	93.07	8,606.14	1,262.79	15,941.06	15,927.71	0.00	0.00	0.00
23,900.00	88.51	93.07	8,608.74	1,257.43	16,040.89	16,027.58	0.00	0.00	0.00
23,987.06	88.51	93.07	8,611.00	1,252.77	16,127.80	16,114.53	0.00	0.00	0.00
TD at 23987.06' MD									

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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 211H - KOP	0.00	0.00	0.00	1,409.29	315.86	418,498.87	528,329.70	32.150525	-104.375365
- plan misses target center by 1444.25usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 211H - FTP	0.00	0.00	0.00	1,412.83	670.84	418,502.41	528,684.68	32.150535	-104.374218
- plan misses target center by 1564.00usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 211H - FPP2	0.00	0.01	0.00	1,515.49	11,011.61	418,605.07	539,025.45	32.150824	-104.340804
- plan misses target center by 8475.09usft at 18641.80usft MD (8472.22 TVD, 1513.31 N, 10791.32 E)									
- Point									
High Life 211H - FPP1	0.00	360.00	0.00	1,462.49	5,673.85	418,552.07	533,687.69	32.150676	-104.358052
- plan misses target center by 5859.30usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
High Life 211H - LTP	0.00	0.00	0.00	1,269.52	15,801.69	418,359.10	543,815.53	32.150147	-104.325327
- plan misses target center by 8599.62usft at 23437.10usft MD (8596.72 TVD, 1282.21 N, 15578.81 E)									
- Point									
High Life 211H - BHL	0.00	0.00	8,611.00	1,252.77	16,127.80	418,342.36	544,141.64	32.150101	-104.324273
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
37.00	37.00	Rustler				
337.00	337.00	Top Salt				
1,238.04	1,236.00	Base Salt				
1,466.58	1,462.00	Delaware				
1,467.59	1,463.00	Lamar				
1,497.02	1,492.00	Bell				
1,591.59	1,585.00	Ramsey				
2,442.13	2,410.00	Cherry				
3,394.56	3,330.00	Brushy				
5,144.14	5,020.00	Bone Spring				
5,206.26	5,080.00	Avalon				
5,522.01	5,385.00	Avalon Middle				
6,029.28	5,875.00	1st Bone Spring				
6,246.01	6,085.00	2nd Bone Spring FS				
6,623.50	6,455.00	2nd Bone Spring Sand				
7,297.74	7,125.00	3rd Bone Spring Break Sand				
7,892.85	7,720.00	3rd Bone Spring Sand				
8,134.71	7,950.00	3rd Bone Spring W Sand				
8,280.47	8,065.00	Wolfcamp A X				
8,384.90	8,130.00	Wolfcamp A Y				
8,527.35	8,190.00	Wolfcamp A Lower				
12,401.18	8,310.00	Wolfcamp B				

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well High Life Fed Com 211H
Company:	Tap Rock	TVD Reference:	RKB @ 3538.00usft
Project:	Eddy County, NM (NAD83 - NM E)	MD Reference:	RKB @ 3538.00usft
Site:	High Life	North Reference:	Grid
Well:	High Life Fed Com 211H	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'	
1,999.51	1,982.45	190.38	42.67	Hold 15° INC	
6,073.33	5,917.55	1,218.91	273.19	Drop 1°/100'	
7,572.84	7,400.00	1,409.29	315.86	Hold Vertical	
7,865.15	7,692.31	1,409.29	315.86	KOP @ 7865.15' MD	
8,514.98	8,186.21	1,412.82	671.28	FTP @ 8514.98' MD	
8,669.79	8,213.00	1,414.33	823.17	Land @ 8669.79' MD	
18,862.18	8,477.95	1,515.49	11,011.61	Turn 1°/100'	
19,225.81	8,487.40	1,507.57	11,374.97	Hold 88.51° INC, 93.07° AZM	
23,660.95	8,602.53	1,270.23	15,802.26	LTP @ 23660.95' MD	
23,987.06	8,611.00	1,252.77	16,127.80	TD at 23987.06' MD	



Drilling Operations Plan
 High Life Fed Com #211H
 Tap Rock Operating, LLC
 SHL 1,804' FNL & 355' FEL, Sec. 10
 BHL 393' FNL & 5' FEL, Sec. 7
 T. 25S., R. 26E Eddy County, NM

Elevation above Sea Level: 3512'

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	1,236	1,238	Salt	Salt
DMG	1,462	1,467	Sandstone	None
Lamar	1,463	1,468	Sandstone	Hydrocarbons
Bell Canyon	1,492	1,497	Sandstone	Hydrocarbons
Ramsey Sand	1,585	1,592	Sandstone	Hydrocarbons
Cherry Canyon	2,410	2,442	Limestone	Hydrocarbons
Brushy Canyon	3,330	3,395	Sandstone	Hydrocarbons
Bone Spring Lime	5,020	5,144	Carbonate	Hydrocarbons
Upper Avalon	5,080	5,206	Carbonate	Hydrocarbons
Middle Avalon	5,385	5,522	Carbonate	Hydrocarbons
1st BS Sand	5,875	6,029	Sandstone	Hydrocarbons
2nd BS Carb	6,085	6,246	Carbonate	Hydrocarbons
2nd BS Sand	6,455	6,624	Sandstone	Hydrocarbons
3rd BS Sand	7,720	7,893	Sandstone	Hydrocarbons
Wolfcamp A	8,065	8,280	Shale	Hydrocarbons
KOP	7,692	7,865	Sandstone	Hydrocarbons
TD	8,611	23,987	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp A is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 23,987', 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 #211H
 Tap Rock Operating, LLC
 SHL 1,804' FNL & 355' FEL, Sec. 10
 BHL 393' FNL & 5' FEL, Sec. 7
 T. 25S., R. 26E 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	1,518	8 5/8	API	No	0	1,518	0	1,513	J-55	32	BUTT	1.13	1.15	1.6
Production	7 7/8	1,518	23,987	6	NON API	No	0	23,987	0	8,611	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	144	2.7	390	11.0	75%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1018	124	1.33	165	14.8	30%	C	5% NaCl + LCM
Production	Lead	1318	332	3.35	1111	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	7865	2350	1.63	3830	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	1,518	Brine Water	10.00	27-30	NC
Production	1,518	23,987	FW/Cut Brine	9.00	27-30	NC



Drilling Operations Plan
High Life Fed Com #211H
Tap Rock Operating, LLC
SHL 1,804' FNL & 355' FEL, Sec. 10
BHL 393' FNL & 5' FEL, Sec. 7
T. 25S., R. 26E 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 $\approx 3,979$ 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.

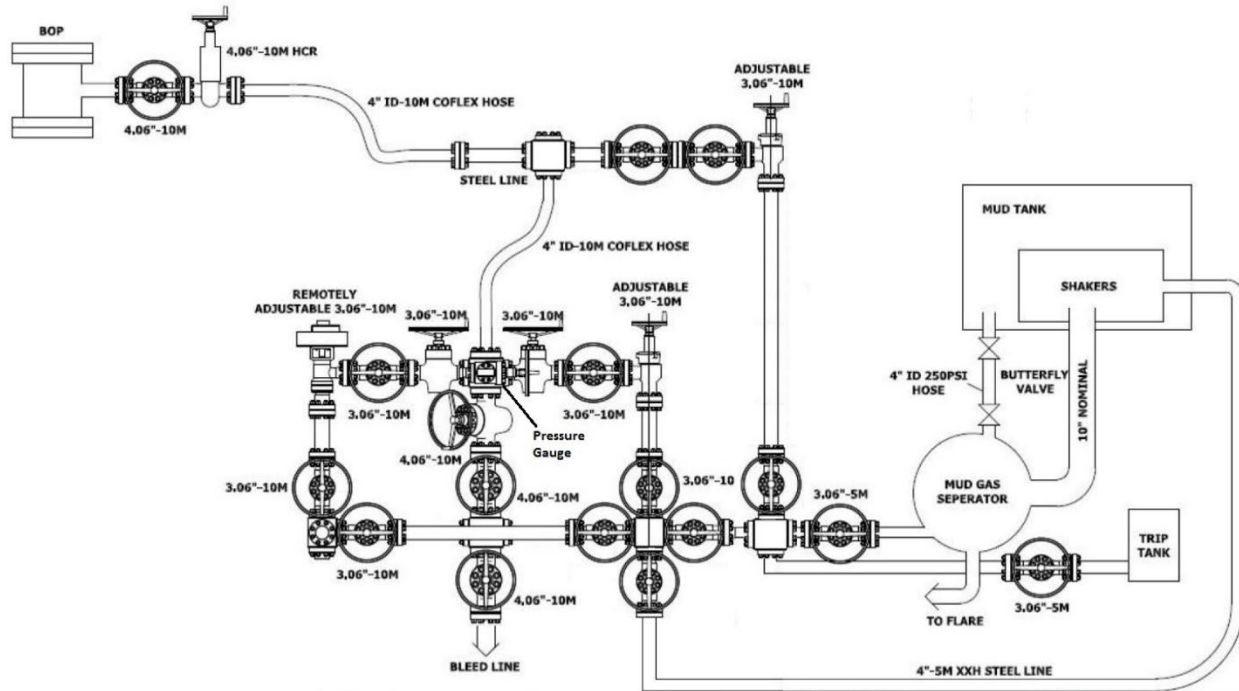
8. Other Information

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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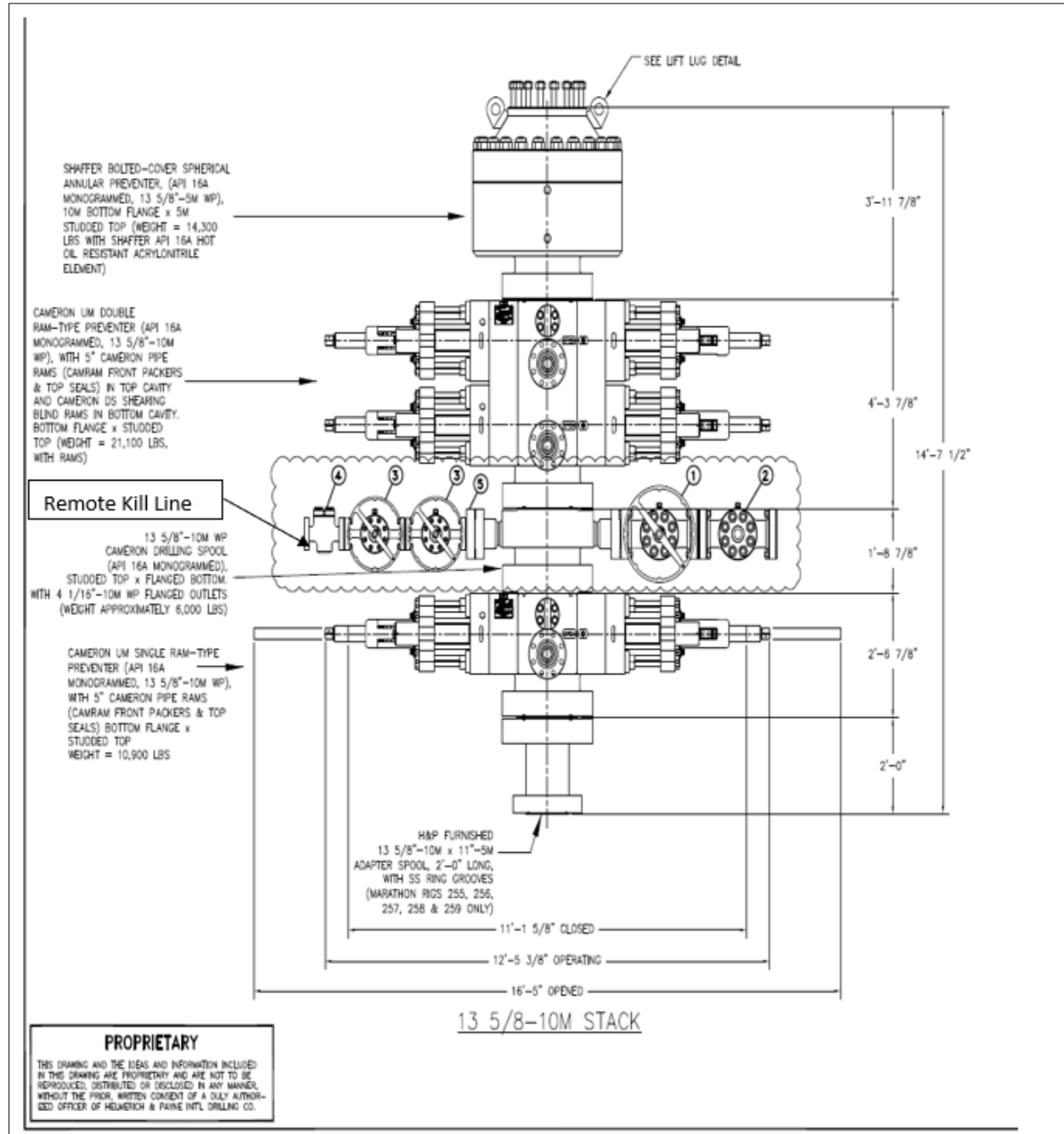
10M Choke Layout

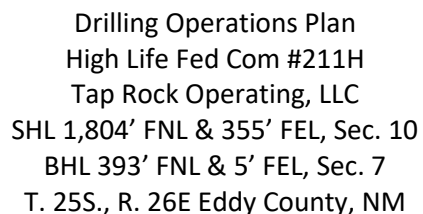




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10,000 psi BOP Stack

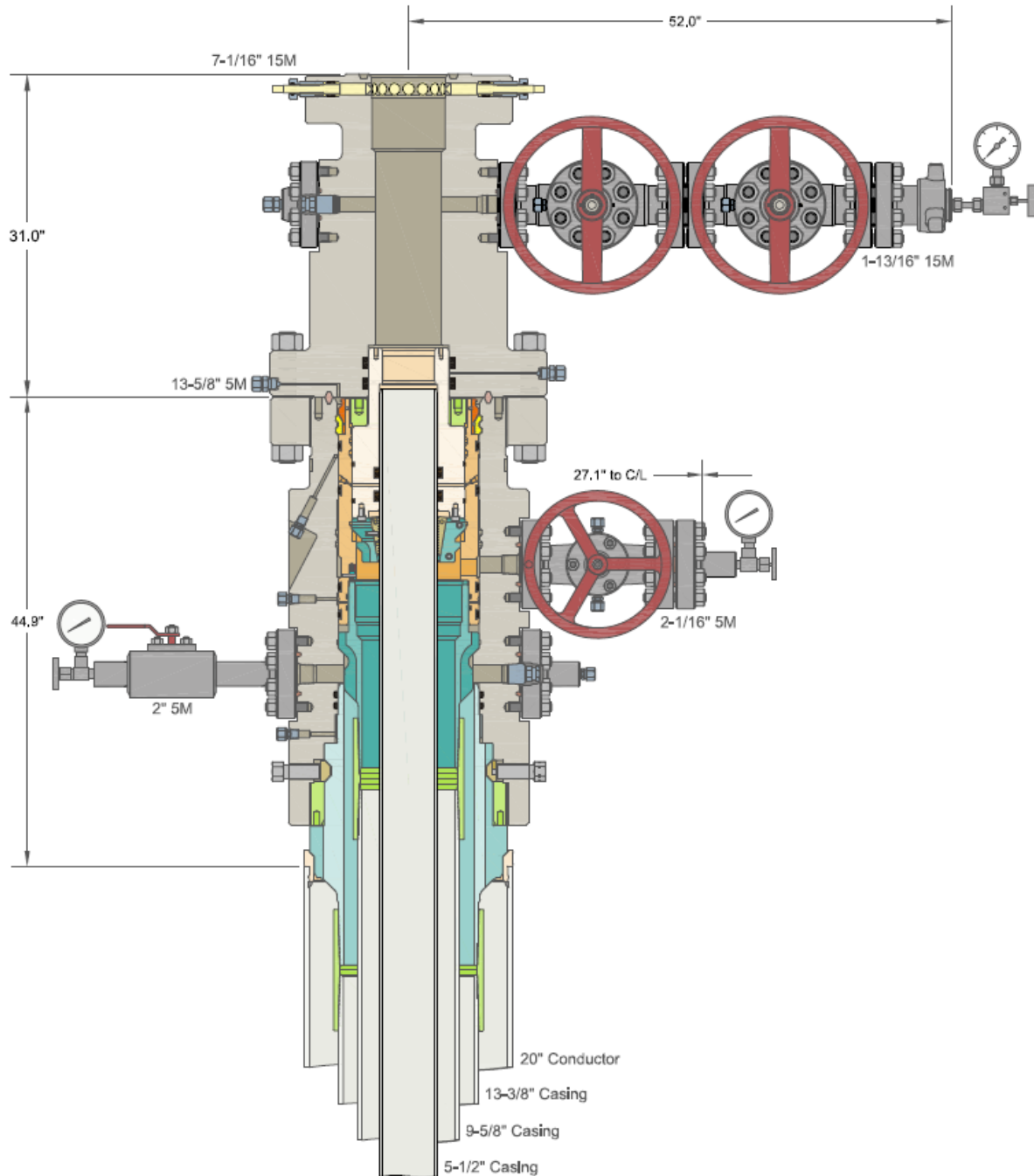






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Multi-bowl Wellhead Design





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
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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 373269

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 373269
	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.	9/13/2024