

Well Name: YADA FED COM	Well Location: T24S / R35E / SEC 35 / SWSW / 32.1673817 / -103.3437725	County or Parish/State: LEA / NM
Well Number: 215H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM138891, NMNM138896	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548255	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 03/11/2021	Time Sundry Submitted: 01:37
Date proposed operation will begin: 03/11/2021	

Procedure Description: Tap Rock Operating is requesting permission to run a pilot hole on the Yada Fed Com 215H for logging purposes. The pilot hole will be drilled to approximately 13020 ft MD. After logging Tap Rock will pull back, set a plug, and utilize a whipstock to kick off and drill the horizontal portion of this wellbore to approximately 22533 ft MD. Please see the attached documents for details on the procedure and potential sidetrack options.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Drilling_APD__Yada_Fed_Com_215H_3.10.2021_Pilot_Sundry_20210311133531.pdf
- Yada_Fed_Com_215H_ST_1_WPlot_20210311133531.pdf
- Yada_Fed_Com_215H_Pilot_Hole_W_Plot_20210311133531.pdf

Received by OCD: 3/26/2021 11:55:58 AM

Page 2 of 25

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Conditions of Approval

Additional Reviews

Yada_Fed_Com_215H_Sundry_ID_1517968_20210322095046.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RAMSEY

Signed on: MAR 11, 2021 01:28 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

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

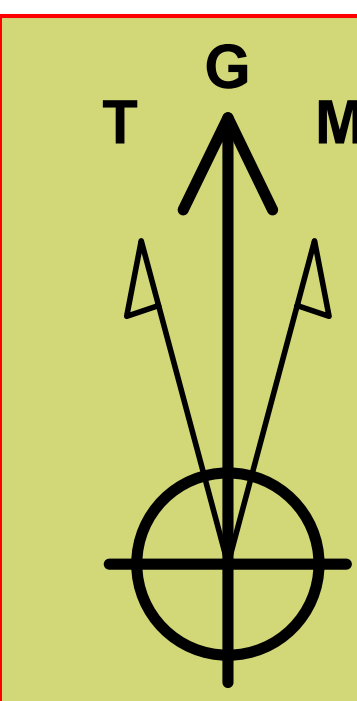
BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 03/26/2021

Signature: Chris Walls

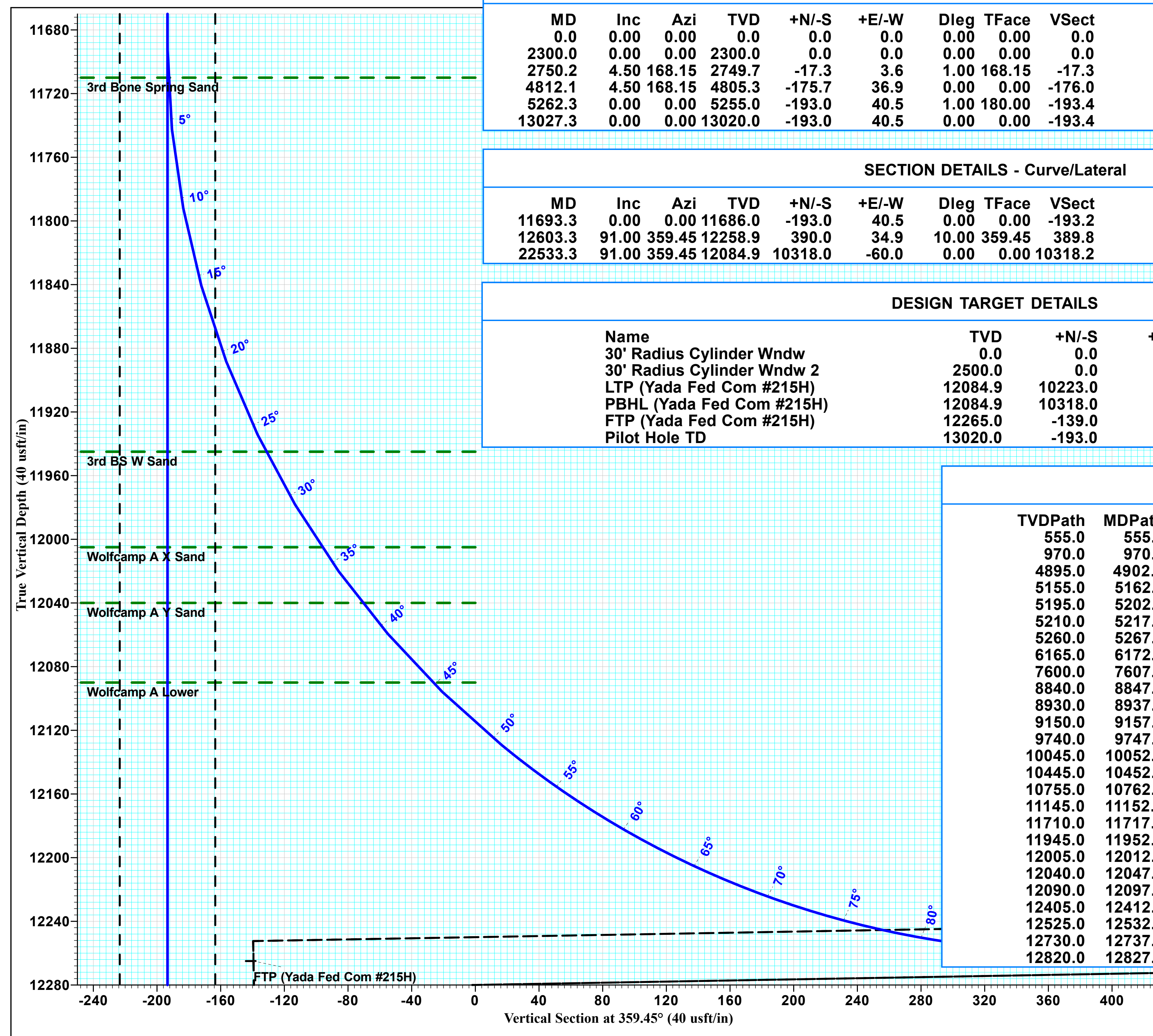
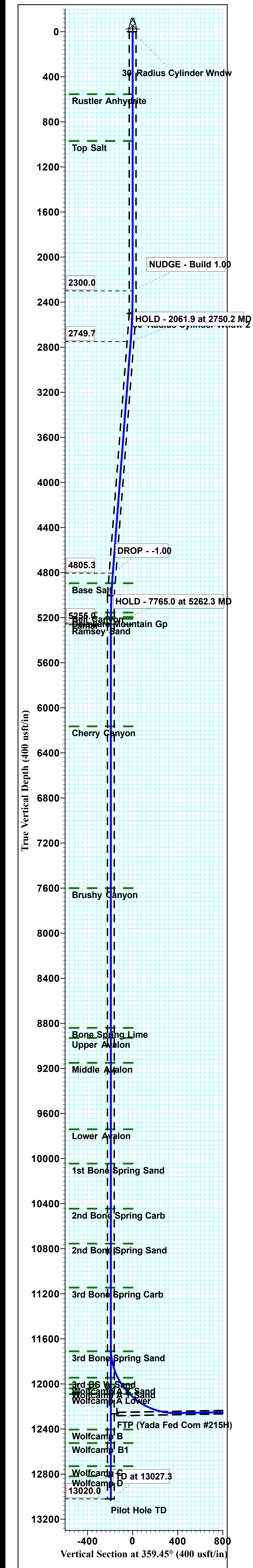


Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.91°

Magnetic Field
Strength: 47549.7nT
Dip Angle: 60.00°
Date: 02/24/2021
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 5.91°

Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Yada Fed Com) Sec-35_T-24-S_R-35-E
Well: Yada Fed Com #215H
Wellbore: OWB
Design: Pilot Hole Plan
Lat: 32° 10' 2.571 N
Long: 103° 20' 37.577 W
Pad GL: 3256.0
KB: KB = 26 @ 3282.0usft (H&P 264)



WELL DETAILS: Yada Fed Com #215H

	3256.0				
0.0	+N/-S	+E/-W	0.0	0.0	0.0
426036.00	Northing	847538.00	Easting	32° 10' 2.571 N	103° 20' 37.577 W

SECTION DETAILS - PILOT HOLE

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	NUDGE - Build 1.00
2750.2	4.50	168.15	2749.7	-17.3	3.6	1.00	168.15	-17.3	HOLD - 2061.9 at 2750.2 MD
4812.1	4.50	168.15	4805.3	-175.7	36.9	0.00	0.00	-176.0	DROP - 1.00
5262.3	0.00	0.00	5255.0	-193.0	40.5	1.00	180.00	-193.4	HOLD - 7765.0 at 5262.3 MD
13027.3	0.00	0.00	13020.0	-193.0	40.5	0.00	0.00	-193.4	TD at 13027.3

SECTION DETAILS - Curve/Lateral

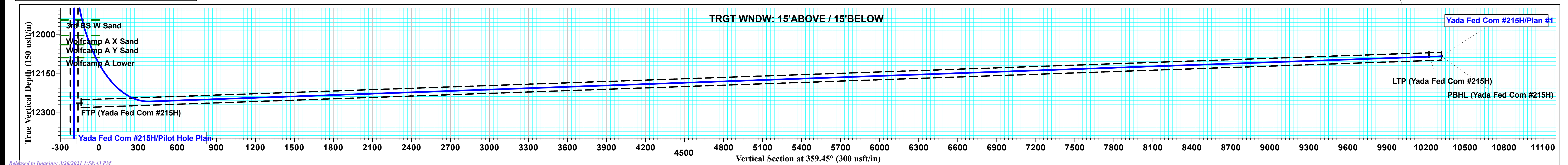
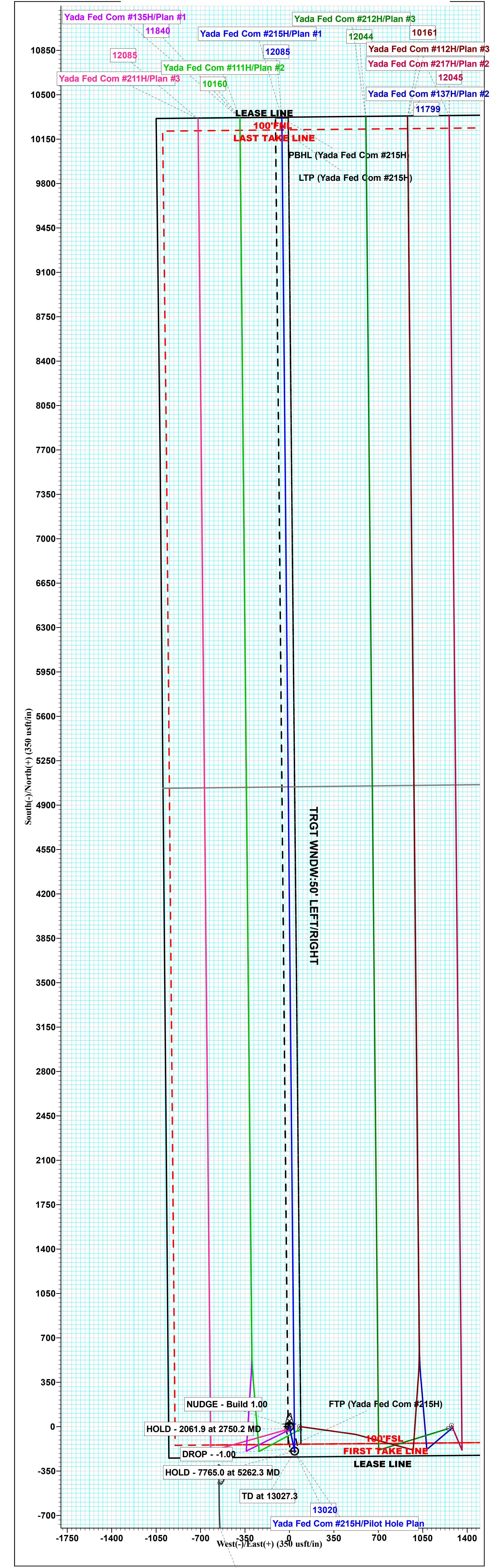
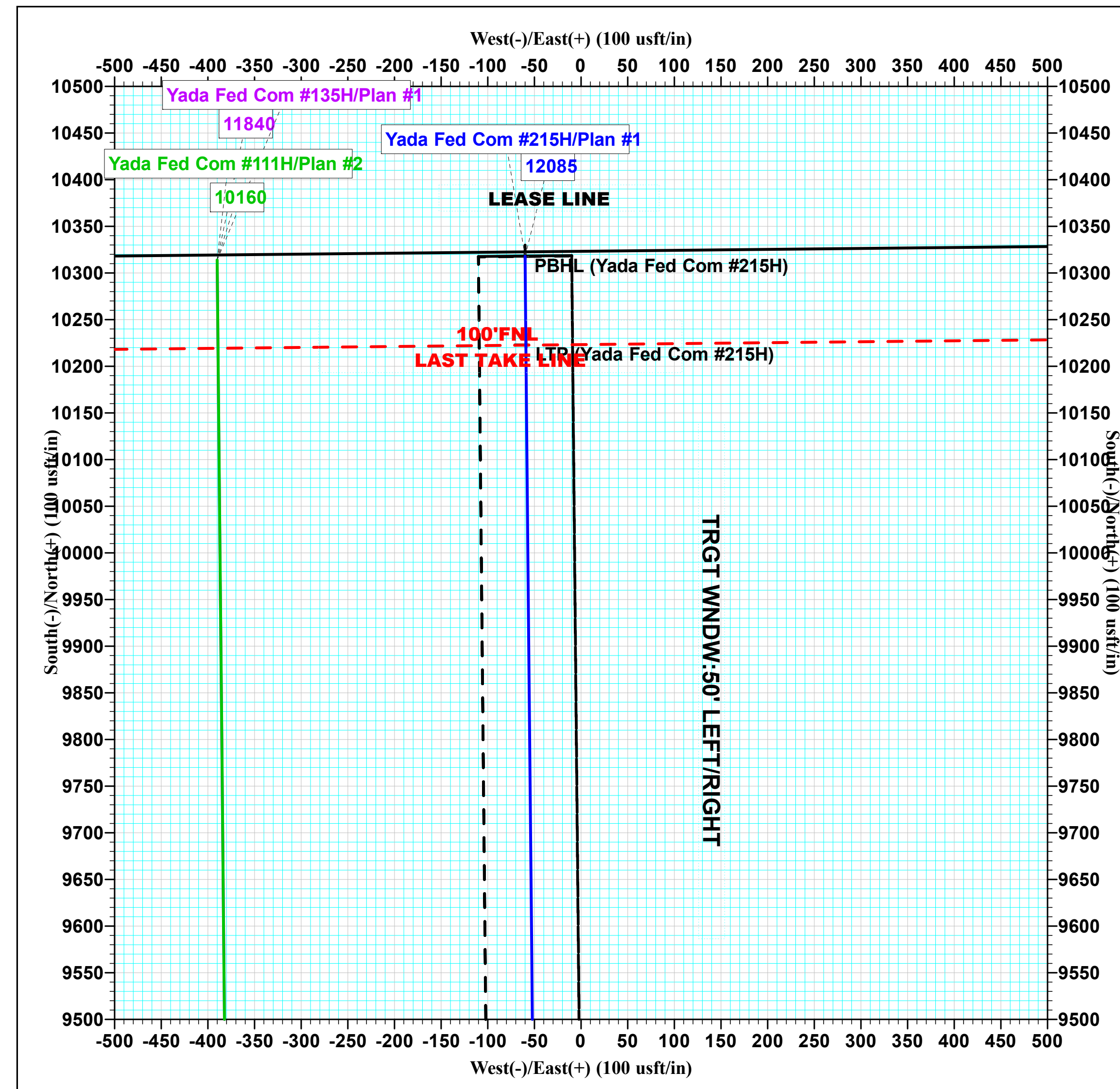
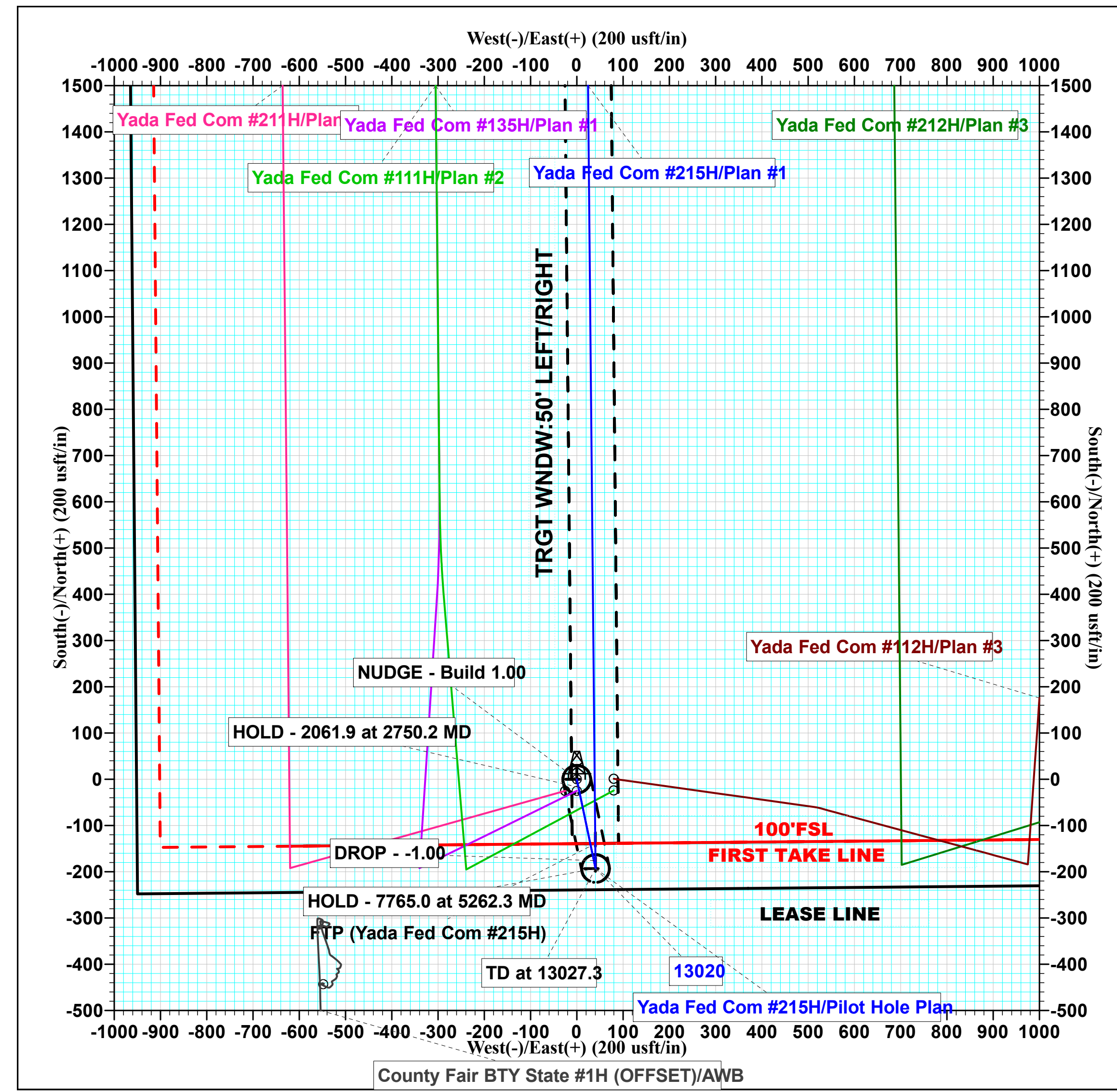
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
11693.3	0.00	0.00	11686.0	-193.0	40.5	0.00	0.00	-193.2	KOP - DLS 10.00 TFO 359.45
12603.3	91.00	359.45	12258.9	390.0	34.9	10.00	359.45	389.8	ECC - 9930.0 hold at 12603.3 MD
22533.3	91.00	359.45	12084.9	10318.0	-60.0	0.00	0.00	10318.2	TD at 22533.3

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
30' Radius Cylinder Wndw	0.0	0.0	0.0	426036.00	847538.00
30' Radius Cylinder Wndw 2	2500.0	0.0	0.0	426036.00	847538.00
LTP (Yada Fed Com #215H)	12084.9	10223.0	-59.0	436259.00	847479.00
PBHL (Yada Fed Com #215H)	12084.9	10318.0	-60.0	436354.00	847478.00
FTP (Yada Fed Com #215H)	12265.0	-139.0	40.0	425897.00	847578.00
Pilot Hole TD	13020.0	-193.0	40.5	425843.00	847578.50

FORMATIONS

TVDPPath	MDPath	Formation
555.0	555.0	Rustler Anhydrite
970.0	970.0	Top Salt
4895.0	4902.1	Base Salt
5155.0	5162.3	Bell Canyon
5195.0	5202.3	Delaware Mountain Gp
5210.0	5217.3	Lamar
5260.0	5267.3	Ramsey Sand
6165.0	6172.3	Cherry Canyon
7600.0	7607.3	Brushy Canyon
8840.0	8847.3	Bone Spring Lime
8930.0	8937.3	Upper Avalon
9150.0	9157.3	Middle Avalon
9740.0	9747.3	Lower Avalon
10045.0	10052.3	1st Bone Spring Sand
10445.0	10452.3	2nd Bone Spring Carb
10755.0	10762.3	2nd Bone Spring Sand
11145.0	11152.3	3rd Bone Spring Carb
11710.0	11717.3	3rd Bone Spring Sand
11945.0	11952.3	3rd BS W Sand
12005.0	12012.3	Wolfcamp A X Sand
12040.0	12047.3	Wolfcamp A Y Sand
12090.0	12097.3	Wolfcamp A Lower
12405.0	12412.3	Wolfcamp B
12525.0	12532.3	Wolfcamp B1
12730.0	12737.3	Wolfcamp C
12820.0	12827.3	Wolfcamp D





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Yada Fed Com) Sec-35_T-24-S_R-35-E
Yada Fed Com #215H**

ST01

Plan: Plan #1

Standard Planning Report

06 March, 2021





Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Yada Fed Com #215H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	North Reference:	Grid
Well:	Yada Fed Com #215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Yada Fed Com) Sec-35_T-24-S_R-35-E		
Site Position:		Northing:	426,095.00 usft
From:	Map	Easting:	851,098.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.829 N
		Longitude:	103° 19' 56.158 W
		Grid Convergence:	0.53 °

Well	Yada Fed Com #215H		
Well Position	+N/-S	-59.0 usft	Northing:
	+E/-W	-3,560.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/06/21	6.44	60.00	47,546.89139632

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	11,693.3	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.67	

Plan Survey Tool Program	Date	03/06/21			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	11,693.3	22,533.3	Plan #1 (ST01)	MWD	
				OWSG MWD - Standard	

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
11,693.3	0.00	0.00	11,686.0	-193.0	40.5	0.00	0.00	0.00	0.00	
12,603.3	91.00	359.45	12,258.9	390.0	34.9	10.00	10.00	-0.06	359.45	
22,533.3	91.00	359.45	12,084.9	10,318.0	-60.0	0.00	0.00	0.00	0.00	PBHL (Yada Fed C



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	North Reference:	Grid
Well:	Yada Fed Com #215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	1.00	168.15	2,400.0	-0.9	0.2	-0.9	1.00	1.00	0.00
2,500.0	2.00	168.15	2,500.0	-3.4	0.7	-3.4	1.00	1.00	0.00
2,600.0	3.00	168.15	2,599.9	-7.7	1.6	-7.7	1.00	1.00	0.00
2,700.0	4.00	168.15	2,699.7	-13.7	2.9	-13.7	1.00	1.00	0.00
2,750.2	4.50	168.15	2,749.7	-17.3	3.6	-17.3	1.00	1.00	0.00
2,800.0	4.50	168.15	2,799.4	-21.1	4.4	-21.2	0.00	0.00	0.00
2,900.0	4.50	168.15	2,899.1	-28.8	6.0	-28.8	0.00	0.00	0.00
3,000.0	4.50	168.15	2,998.8	-36.5	7.7	-36.5	0.00	0.00	0.00
3,100.0	4.50	168.15	3,098.5	-44.2	9.3	-44.2	0.00	0.00	0.00
3,200.0	4.50	168.15	3,198.1	-51.9	10.9	-51.9	0.00	0.00	0.00
3,300.0	4.50	168.15	3,297.8	-59.5	12.5	-59.6	0.00	0.00	0.00
3,400.0	4.50	168.15	3,397.5	-67.2	14.1	-67.3	0.00	0.00	0.00
3,500.0	4.50	168.15	3,497.2	-74.9	15.7	-75.0	0.00	0.00	0.00
3,600.0	4.50	168.15	3,596.9	-82.6	17.3	-82.7	0.00	0.00	0.00
3,700.0	4.50	168.15	3,696.6	-90.3	18.9	-90.4	0.00	0.00	0.00
3,800.0	4.50	168.15	3,796.3	-97.9	20.6	-98.1	0.00	0.00	0.00
3,900.0	4.50	168.15	3,896.0	-105.6	22.2	-105.8	0.00	0.00	0.00
4,000.0	4.50	168.15	3,995.7	-113.3	23.8	-113.4	0.00	0.00	0.00
4,100.0	4.50	168.15	4,095.4	-121.0	25.4	-121.1	0.00	0.00	0.00
4,200.0	4.50	168.15	4,195.1	-128.7	27.0	-128.8	0.00	0.00	0.00
4,300.0	4.50	168.15	4,294.8	-136.4	28.6	-136.5	0.00	0.00	0.00
4,400.0	4.50	168.15	4,394.4	-144.0	30.2	-144.2	0.00	0.00	0.00
4,500.0	4.50	168.15	4,494.1	-151.7	31.8	-151.9	0.00	0.00	0.00
4,600.0	4.50	168.15	4,593.8	-159.4	33.5	-159.6	0.00	0.00	0.00
4,700.0	4.50	168.15	4,693.5	-167.1	35.1	-167.3	0.00	0.00	0.00
4,800.0	4.50	168.15	4,793.2	-174.8	36.7	-175.0	0.00	0.00	0.00
4,812.1	4.50	168.15	4,805.3	-175.7	36.9	-175.9	0.00	0.00	0.00
4,900.0	3.62	168.15	4,893.0	-181.8	38.1	-182.0	1.00	-1.00	0.00
5,000.0	2.62	168.15	4,992.8	-187.1	39.3	-187.4	1.00	-1.00	0.00
5,100.0	1.62	168.15	5,092.7	-190.8	40.0	-191.0	1.00	-1.00	0.00



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5,200.0	0.62	168.15	5,192.7	-192.7	40.4	-192.9	1.00	-1.00	0.00
5,262.3	0.00	0.00	5,255.0	-193.0	40.5	-193.2	1.00	-1.00	0.00
5,300.0	0.00	0.00	5,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,400.0	0.00	0.00	5,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Yada Fed Com #215H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	North Reference:	Grid
Well:	Yada Fed Com #215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
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)
10,500.0	0.00	0.00	10,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,692.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,792.7	-193.0	40.5	-193.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,892.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,992.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,092.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,192.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,292.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,392.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,492.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,592.7	-193.0	40.5	-193.2	0.00	0.00	0.00
11,693.3	0.00	0.00	11,686.0	-193.0	40.5	-193.2	0.00	0.00	0.00
11,700.0	0.67	359.45	11,692.7	-193.0	40.5	-193.2	10.00	10.00	0.00
11,717.3	2.40	359.45	11,710.0	-192.5	40.5	-192.7	10.00	10.00	0.00
3rd Bone Spring Sand									
11,750.0	5.67	359.45	11,742.6	-190.2	40.5	-190.4	10.00	10.00	0.00
11,800.0	10.67	359.45	11,792.1	-183.1	40.4	-183.3	10.00	10.00	0.00
11,850.0	15.67	359.45	11,840.8	-171.7	40.3	-171.9	10.00	10.00	0.00
11,900.0	20.67	359.45	11,888.3	-156.1	40.1	-156.4	10.00	10.00	0.00
11,950.0	25.67	359.45	11,934.2	-136.5	40.0	-136.7	10.00	10.00	0.00
11,962.0	26.87	359.45	11,945.0	-131.1	39.9	-131.4	10.00	10.00	0.00
3rd BS W Sand									
12,000.0	30.67	359.45	11,978.3	-112.9	39.7	-113.1	10.00	10.00	0.00
12,031.6	33.83	359.45	12,005.0	-96.0	39.6	-96.2	10.00	10.00	0.00
Wolfcamp A X Sand									
12,050.0	35.67	359.45	12,020.1	-85.5	39.5	-85.7	10.00	10.00	0.00
12,074.9	38.16	359.45	12,040.0	-70.6	39.3	-70.8	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,100.0	40.67	359.45	12,059.4	-54.6	39.2	-54.8	10.00	10.00	0.00
12,141.7	44.84	359.45	12,090.0	-26.3	38.9	-26.6	10.00	10.00	0.00
Wolfcamp A Lower									
12,150.0	45.67	359.45	12,095.9	-20.4	38.8	-20.7	10.00	10.00	0.00
12,200.0	50.67	359.45	12,129.2	16.8	38.5	16.6	10.00	10.00	0.00
12,250.0	55.67	359.45	12,159.2	56.8	38.1	56.6	10.00	10.00	0.00
12,300.0	60.67	359.45	12,185.5	99.3	37.7	99.1	10.00	10.00	0.00
12,350.0	65.67	359.45	12,208.1	143.9	37.3	143.7	10.00	10.00	0.00
12,400.0	70.67	359.45	12,226.7	190.3	36.8	190.1	10.00	10.00	0.00
12,450.0	75.67	359.45	12,241.1	238.1	36.4	237.9	10.00	10.00	0.00
12,500.0	80.67	359.45	12,251.4	287.0	35.9	286.8	10.00	10.00	0.00
12,550.0	85.67	359.45	12,257.3	336.7	35.4	336.5	10.00	10.00	0.00
12,603.3	91.00	359.45	12,258.9	390.0	34.9	389.8	10.00	10.00	0.00
12,700.0	91.00	359.45	12,257.2	486.6	34.0	486.4	0.00	0.00	0.00
12,800.0	91.00	359.45	12,255.4	586.6	33.0	586.4	0.00	0.00	0.00
12,900.0	91.00	359.45	12,253.7	686.6	32.1	686.4	0.00	0.00	0.00
13,000.0	91.00	359.45	12,251.9	786.6	31.1	786.4	0.00	0.00	0.00
13,100.0	91.00	359.45	12,250.2	886.5	30.2	886.3	0.00	0.00	0.00
13,200.0	91.00	359.45	12,248.4	986.5	29.2	986.3	0.00	0.00	0.00
13,300.0	91.00	359.45	12,246.7	1,086.5	28.3	1,086.3	0.00	0.00	0.00
13,400.0	91.00	359.45	12,244.9	1,186.5	27.3	1,186.3	0.00	0.00	0.00
13,500.0	91.00	359.45	12,243.2	1,286.5	26.4	1,286.3	0.00	0.00	0.00
13,600.0	91.00	359.45	12,241.4	1,386.4	25.4	1,386.3	0.00	0.00	0.00
13,700.0	91.00	359.45	12,239.7	1,486.4	24.4	1,486.2	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Yada Fed Com #215H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	North Reference:	Grid
Well:	Yada Fed Com #215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
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)
13,800.0	91.00	359.45	12,237.9	1,586.4	23.5	1,586.2	0.00	0.00	0.00
13,900.0	91.00	359.45	12,236.2	1,686.4	22.5	1,686.2	0.00	0.00	0.00
14,000.0	91.00	359.45	12,234.4	1,786.4	21.6	1,786.2	0.00	0.00	0.00
14,100.0	91.00	359.45	12,232.7	1,886.3	20.6	1,886.2	0.00	0.00	0.00
14,200.0	91.00	359.45	12,230.9	1,986.3	19.7	1,986.2	0.00	0.00	0.00
14,300.0	91.00	359.45	12,229.2	2,086.3	18.7	2,086.1	0.00	0.00	0.00
14,400.0	91.00	359.45	12,227.4	2,186.3	17.8	2,186.1	0.00	0.00	0.00
14,500.0	91.00	359.45	12,225.6	2,286.3	16.8	2,286.1	0.00	0.00	0.00
14,600.0	91.00	359.45	12,223.9	2,386.2	15.8	2,386.1	0.00	0.00	0.00
14,700.0	91.00	359.45	12,222.1	2,486.2	14.9	2,486.1	0.00	0.00	0.00
14,800.0	91.00	359.45	12,220.4	2,586.2	13.9	2,586.1	0.00	0.00	0.00
14,900.0	91.00	359.45	12,218.6	2,686.2	13.0	2,686.1	0.00	0.00	0.00
15,000.0	91.00	359.45	12,216.9	2,786.2	12.0	2,786.0	0.00	0.00	0.00
15,100.0	91.00	359.45	12,215.1	2,886.1	11.1	2,886.0	0.00	0.00	0.00
15,200.0	91.00	359.45	12,213.4	2,986.1	10.1	2,986.0	0.00	0.00	0.00
15,300.0	91.00	359.45	12,211.6	3,086.1	9.1	3,086.0	0.00	0.00	0.00
15,400.0	91.00	359.45	12,209.9	3,186.1	8.2	3,186.0	0.00	0.00	0.00
15,500.0	91.00	359.45	12,208.1	3,286.1	7.2	3,286.0	0.00	0.00	0.00
15,600.0	91.00	359.45	12,206.4	3,386.0	6.3	3,385.9	0.00	0.00	0.00
15,700.0	91.00	359.45	12,204.6	3,486.0	5.3	3,485.9	0.00	0.00	0.00
15,800.0	91.00	359.45	12,202.9	3,586.0	4.4	3,585.9	0.00	0.00	0.00
15,900.0	91.00	359.45	12,201.1	3,686.0	3.4	3,685.9	0.00	0.00	0.00
16,000.0	91.00	359.45	12,199.4	3,786.0	2.5	3,785.9	0.00	0.00	0.00
16,100.0	91.00	359.45	12,197.6	3,885.9	1.5	3,885.9	0.00	0.00	0.00
16,200.0	91.00	359.45	12,195.9	3,985.9	0.5	3,985.8	0.00	0.00	0.00
16,300.0	91.00	359.45	12,194.1	4,085.9	-0.4	4,085.8	0.00	0.00	0.00
16,400.0	91.00	359.45	12,192.4	4,185.9	-1.4	4,185.8	0.00	0.00	0.00
16,500.0	91.00	359.45	12,190.6	4,285.9	-2.3	4,285.8	0.00	0.00	0.00
16,600.0	91.00	359.45	12,188.9	4,385.8	-3.3	4,385.8	0.00	0.00	0.00
16,700.0	91.00	359.45	12,187.1	4,485.8	-4.2	4,485.8	0.00	0.00	0.00
16,800.0	91.00	359.45	12,185.4	4,585.8	-5.2	4,585.7	0.00	0.00	0.00
16,900.0	91.00	359.45	12,183.6	4,685.8	-6.1	4,685.7	0.00	0.00	0.00
17,000.0	91.00	359.45	12,181.8	4,785.8	-7.1	4,785.7	0.00	0.00	0.00
17,100.0	91.00	359.45	12,180.1	4,885.7	-8.1	4,885.7	0.00	0.00	0.00
17,200.0	91.00	359.45	12,178.3	4,985.7	-9.0	4,985.7	0.00	0.00	0.00
17,300.0	91.00	359.45	12,176.6	5,085.7	-10.0	5,085.7	0.00	0.00	0.00
17,400.0	91.00	359.45	12,174.8	5,185.7	-10.9	5,185.7	0.00	0.00	0.00
17,500.0	91.00	359.45	12,173.1	5,285.7	-11.9	5,285.6	0.00	0.00	0.00
17,600.0	91.00	359.45	12,171.3	5,385.6	-12.8	5,385.6	0.00	0.00	0.00
17,700.0	91.00	359.45	12,169.6	5,485.6	-13.8	5,485.6	0.00	0.00	0.00
17,800.0	91.00	359.45	12,167.8	5,585.6	-14.8	5,585.6	0.00	0.00	0.00
17,900.0	91.00	359.45	12,166.1	5,685.6	-15.7	5,685.6	0.00	0.00	0.00
18,000.0	91.00	359.45	12,164.3	5,785.6	-16.7	5,785.6	0.00	0.00	0.00
18,100.0	91.00	359.45	12,162.6	5,885.5	-17.6	5,885.5	0.00	0.00	0.00
18,200.0	91.00	359.45	12,160.8	5,985.5	-18.6	5,985.5	0.00	0.00	0.00
18,300.0	91.00	359.45	12,159.1	6,085.5	-19.5	6,085.5	0.00	0.00	0.00
18,400.0	91.00	359.45	12,157.3	6,185.5	-20.5	6,185.5	0.00	0.00	0.00
18,500.0	91.00	359.45	12,155.6	6,285.5	-21.4	6,285.5	0.00	0.00	0.00
18,600.0	91.00	359.45	12,153.8	6,385.4	-22.4	6,385.5	0.00	0.00	0.00
18,700.0	91.00	359.45	12,152.1	6,485.4	-23.4	6,485.4	0.00	0.00	0.00
18,800.0	91.00	359.45	12,150.3	6,585.4	-24.3	6,585.4	0.00	0.00	0.00
18,900.0	91.00	359.45	12,148.6	6,685.4	-25.3	6,685.4	0.00	0.00	0.00
19,000.0	91.00	359.45	12,146.8	6,785.4	-26.2	6,785.4	0.00	0.00	0.00
19,100.0	91.00	359.45	12,145.1	6,885.3	-27.2	6,885.4	0.00	0.00	0.00



Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Yada Fed Com) Sec-35_T-24-S_R-35-E
Well: Yada Fed Com #215H
Wellbore: ST01
Design: Plan #1

Local Co-ordinate Reference: Well Yada Fed Com #215H
TVD Reference: KB = 26 @ 3282.0usft (H&P 264)
MD Reference: KB = 26 @ 3282.0usft (H&P 264)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,200.0	91.00	359.45	12,143.3	6,985.3	-28.1	6,985.4	0.00	0.00	0.00
19,300.0	91.00	359.45	12,141.5	7,085.3	-29.1	7,085.3	0.00	0.00	0.00
19,400.0	91.00	359.45	12,139.8	7,185.3	-30.0	7,185.3	0.00	0.00	0.00
19,500.0	91.00	359.45	12,138.0	7,285.3	-31.0	7,285.3	0.00	0.00	0.00
19,600.0	91.00	359.45	12,136.3	7,385.2	-32.0	7,385.3	0.00	0.00	0.00
19,700.0	91.00	359.45	12,134.5	7,485.2	-32.9	7,485.3	0.00	0.00	0.00
19,800.0	91.00	359.45	12,132.8	7,585.2	-33.9	7,585.3	0.00	0.00	0.00
19,900.0	91.00	359.45	12,131.0	7,685.2	-34.8	7,685.2	0.00	0.00	0.00
20,000.0	91.00	359.45	12,129.3	7,785.2	-35.8	7,785.2	0.00	0.00	0.00
20,100.0	91.00	359.45	12,127.5	7,885.1	-36.7	7,885.2	0.00	0.00	0.00
20,200.0	91.00	359.45	12,125.8	7,985.1	-37.7	7,985.2	0.00	0.00	0.00
20,300.0	91.00	359.45	12,124.0	8,085.1	-38.7	8,085.2	0.00	0.00	0.00
20,400.0	91.00	359.45	12,122.3	8,185.1	-39.6	8,185.2	0.00	0.00	0.00
20,500.0	91.00	359.45	12,120.5	8,285.1	-40.6	8,285.2	0.00	0.00	0.00
20,600.0	91.00	359.45	12,118.8	8,385.0	-41.5	8,385.1	0.00	0.00	0.00
20,700.0	91.00	359.45	12,117.0	8,485.0	-42.5	8,485.1	0.00	0.00	0.00
20,800.0	91.00	359.45	12,115.3	8,585.0	-43.4	8,585.1	0.00	0.00	0.00
20,900.0	91.00	359.45	12,113.5	8,685.0	-44.4	8,685.1	0.00	0.00	0.00
21,000.0	91.00	359.45	12,111.8	8,785.0	-45.3	8,785.1	0.00	0.00	0.00
21,100.0	91.00	359.45	12,110.0	8,884.9	-46.3	8,885.1	0.00	0.00	0.00
21,200.0	91.00	359.45	12,108.3	8,984.9	-47.3	8,985.0	0.00	0.00	0.00
21,300.0	91.00	359.45	12,106.5	9,084.9	-48.2	9,085.0	0.00	0.00	0.00
21,400.0	91.00	359.45	12,104.8	9,184.9	-49.2	9,185.0	0.00	0.00	0.00
21,500.0	91.00	359.45	12,103.0	9,284.9	-50.1	9,285.0	0.00	0.00	0.00
21,600.0	91.00	359.45	12,101.2	9,384.8	-51.1	9,385.0	0.00	0.00	0.00
21,700.0	91.00	359.45	12,099.5	9,484.8	-52.0	9,485.0	0.00	0.00	0.00
21,800.0	91.00	359.45	12,097.7	9,584.8	-53.0	9,584.9	0.00	0.00	0.00
21,900.0	91.00	359.45	12,096.0	9,684.8	-53.9	9,684.9	0.00	0.00	0.00
22,000.0	91.00	359.45	12,094.2	9,784.8	-54.9	9,784.9	0.00	0.00	0.00
22,100.0	91.00	359.45	12,092.5	9,884.7	-55.9	9,884.9	0.00	0.00	0.00
22,200.0	91.00	359.45	12,090.7	9,984.7	-56.8	9,984.9	0.00	0.00	0.00
22,300.0	91.00	359.45	12,089.0	10,084.7	-57.8	10,084.9	0.00	0.00	0.00
22,400.0	91.00	359.45	12,087.2	10,184.7	-58.7	10,184.8	0.00	0.00	0.00
22,500.0	91.00	359.45	12,085.5	10,284.7	-59.7	10,284.8	0.00	0.00	0.00
22,533.3	91.00	359.45	12,084.9	10,318.0	-60.0	10,318.2	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Yada Fed Corr - plan hits target center - Rectangle (sides W100.0 H10,459.0 D30.0)	-1.00	359.45	12,084.9	10,318.0	-60.0	436,354.00	847,478.00	32° 11' 44.670 N	103° 20' 37.170 W
LTP (Yada Fed Com # - plan misses target center by 1.7usft at 22438.4usft MD (12086.6 TVD, 10223.0 N, -59.1 E) - Point	0.00	0.00	12,084.9	10,223.0	-59.0	436,259.00	847,479.00	32° 11' 43.729 N	103° 20' 37.169 W
FTP (Yada Fed Com # - plan misses target center by 204.6usft at 12174.5usft MD (12112.6 TVD, -2.6 N, 38.7 E) - Point	0.00	0.00	12,265.0	-139.0	40.0	425,897.00	847,578.00	32° 10' 1.192 N	103° 20' 37.126 W



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Yada Fed Com #215H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26 @ 3282.0usft (H&P 264)
Site:	(Yada Fed Com) Sec-35_T-24-S_R-35-E	North Reference:	Grid
Well:	Yada Fed Com #215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
555.0	555.0	Rustler Anhydrite			
970.0	970.0	Top Salt			
4,902.1	4,895.0	Base Salt			
5,162.3	5,155.0	Bell Canyon			
5,202.3	5,195.0	Delaware Mountain Gp			
5,217.3	5,210.0	Lamar			
5,267.3	5,260.0	Ramsey Sand			
6,172.3	6,165.0	Cherry Canyon			
7,607.3	7,600.0	Brushy Canyon			
8,847.3	8,840.0	Bone Spring Lime			
8,937.3	8,930.0	Upper Avalon			
9,157.3	9,150.0	Middle Avalon			
9,747.3	9,740.0	Lower Avalon			
10,052.3	10,045.0	1st Bone Spring Sand			
10,452.3	10,445.0	2nd Bone Spring Carb			
10,762.3	10,755.0	2nd Bone Spring Sand			
11,152.3	11,145.0	3rd Bone Spring Carb			
11,717.3	11,710.0	3rd Bone Spring Sand			
11,962.0	11,945.0	3rd BS W Sand			
12,031.6	12,005.0	Wolfcamp A X Sand			
12,074.9	12,040.0	Wolfcamp A Y Sand			
12,141.7	12,090.0	Wolfcamp A Lower			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,693.3	11,686.0	-193.0	40.5	KOP - DLS 10.00 TFO 359.45
12,603.3	12,258.9	390.0	34.9	EOC - 9930.0 hold at 12603.3 MD
22,533.3	12,084.9	10,318.0	-60.0	TD at 22533.3



Drilling Operations Plan
Yada Fed Com 215H
Tap Rock Operating, LLC
SHL 240' FSL & 951' FWL, Sec. 35
BHL 5' FNL & 990' FWL, Sec. 26
T. 24S, R. 35E Lea County, NM

Elevation above Sea Level: 3256'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	590	590		Salt
Salado	1005	1005	Salt	Salt
Base Salt	4930	4937		Salt
Lamar	5230	5237	Limestone	None
Bell Canyon	5245	5252	Sandstone	Hydrocarbons
Cherry Canyon	6195	6202	Sandstone	Hydrocarbons
Brushy Canyon	7635	7642	Sandstone	Hydrocarbons
Bone Spring	8935	8942	Limestone	Hydrocarbons
1st Bone Spring	10140	10147	Sandstone	Hydrocarbons
2nd Bone Spring	10375	10382	Sandstone	Hydrocarbons
3rd Bone Spring	11105	11112	Sandstone	Hydrocarbons
KOP	11686	11693	Sandstone	Hydrocarbons
Wolfcamp	12065	12107	Shale	Hydrocarbons
TD	12084	22533	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

A 15,000', 10,000 psi 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.

BOP Test procedure will be as follows:



Drilling Operations Plan
 Yada Fed Com 215H
 Tap Rock Operating, LLC
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 T. 24S, R. 35E Lea County, NM

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 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs. Before drilling out from 7.625" casing shoe, the BOP pressure tests will be made with a third party tester to 250 psi low, 10,000 psi high, and the annular preventer will be tested to 5,000 psi. The BOP will be tested in this manner if passage of allotted time occurs.

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing. Tap Rock requests a variance to use a 5000 psi annular BOP on a 10M BOP stack. The annular will be tested to 250 psi low and 5000 psi high.

PILOT HOLE PLAN OPTION/INFORMATION

Tap Rock request the option to drill a pilot hole vertical section with the intent to run a quad combo log. Tap Rock also request the option to consider multiple plug and sidetrack options based on rig operations and economics while also successfully satisfying regulatory requirements. These options are outlined below:

Pilot Hole OD: 6.75"

Pilot Hole Start MD: +/-11,443' MD (7-5/8" shoe)

Pilot Hole End MD: ~13,020' MD/TVD

Mud Details: 11.5 ppg OBM, 50 – 70 vis

Anticipated pressure at TD TVD: 7,785 psi

Cement Plug / Whipstock Option 1:

- Summary: Set 725' cement plug within the 3rd BSSD formation extending ~150' outside of existing 7-5/8" shoe, and ~50' inside the 7-5/8" casing. Set cased hole whipstock within the 7-5/8" casing.



Drilling Operations Plan
Yada Fed Com 215H
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T. 24S, R. 35E Lea County, NM

- Set 200' cement plug, extending from ~12,115' MD to ~11,390 MD, within the 3rd BSSD formation.
 - o Slurry details: 14.8 ppg Class H, 1.33 ft³/sk, 135 sx volume.
- RIH with whipstock and tag plug top per BLM after WOC of 4 hours.
- Set hydraulic cased hole whip stock inside of 7-5/8" casing. Mill window at ~11,400' MD to commence sidetrack to KOP.

Cement Plug / Whipstock Option 2:

- Summary: Set cementable whipstock just above KOP at ~11,650' MD, cement in place, covering productive zone below whip, clean up whip and sidetrack.
- RIH with cementable whipstock system with 600' of tail pipe below whip stock.
- Set whipstock and perform cement plug operations, setting 465' cement plug from 12,115' to 11,650' (within the 3rd BSSD W formation).
 - o Slurry details: 14.8 ppg Class H, 1.33 ft³/sk, 90 sx volume.
- RIH with directional BHA, tag cement plug top per BLM after WOC of 4 hours and wash/ream cement above whipstock and commence sidetrack.

4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	665	0	665	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	5257	0	5250	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	4957	0	4950	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	4957	11443	4950	11436	P-110	29.7	W513/W441	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	11243	0	11236	P-110S	23	Blue	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	Yes	11243	22533	11236	12084	P-110	23	W521/W441	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	684	1.35	924	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	997	2.18	2173	12.7	65%	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	4206	408	1.33	543	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	4957	335	2.22	744	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	10443	99	1.37	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	10743	1034	1.19	1231	15.8	25%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	665	FW Spud Mud	8.30	28	NC
Intermediate	665	5257	Brine Water	10.00	30-32	NC
Intermediate 2	5257	11443	FW/Cut Brine	9.00	30-32	NC
Production	11443	22533	Oil Base Mud	11.50	50-70	<10



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Yada Fed Com 215H
Tap Rock Operating, LLC
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T. 24S, R. 35E Lea County, NM

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

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 7,335$ psi. Expected bottom hole temperature is $\approx 170^{\circ}$ F.

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

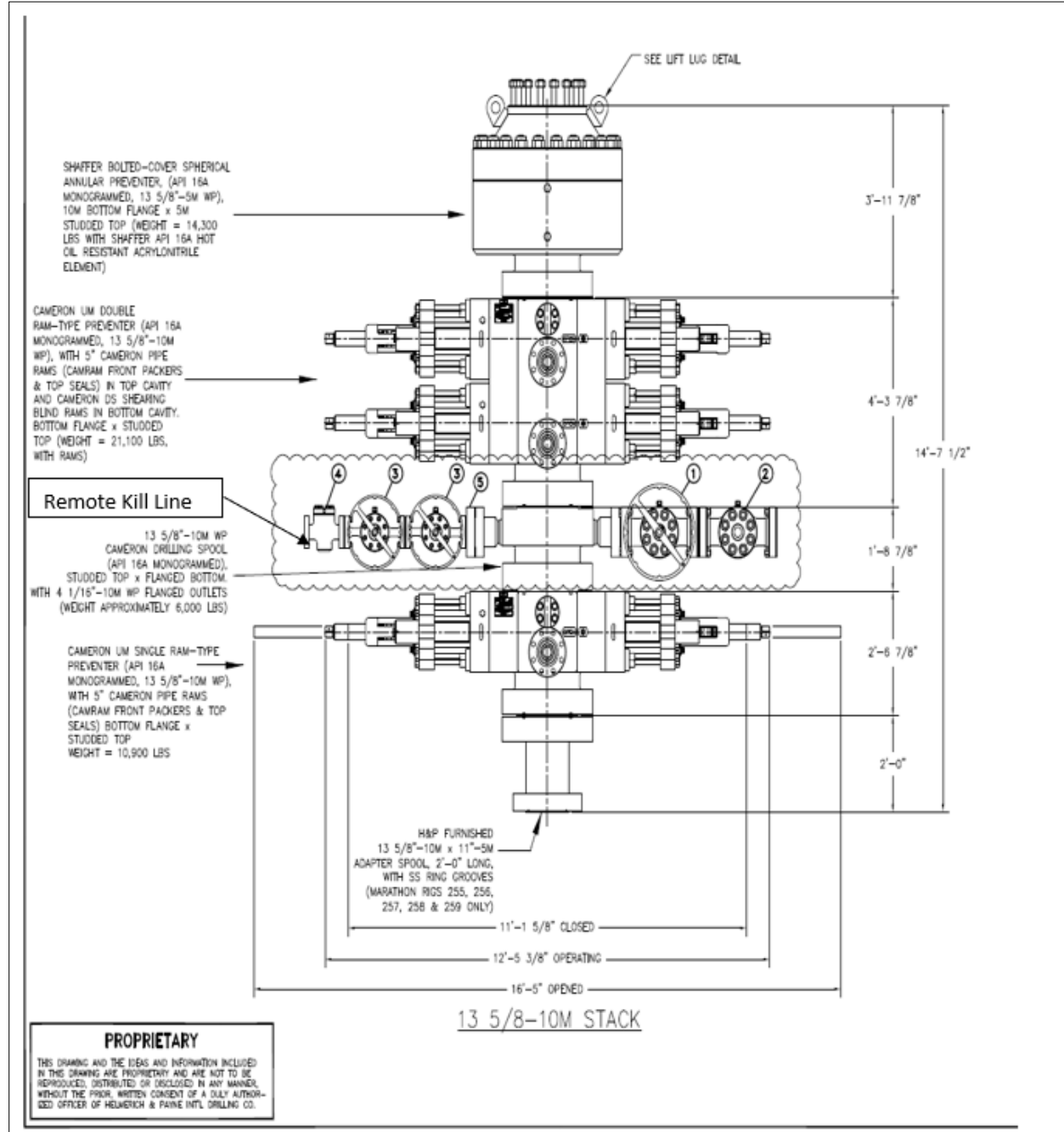
8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



Drilling Operations Plan
Yada Fed Com 215H
Tap Rock Operating, LLC
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T. 24S, R. 35E Lea County, NM

10,000 psi BOP Stack





Drilling Operations Plan

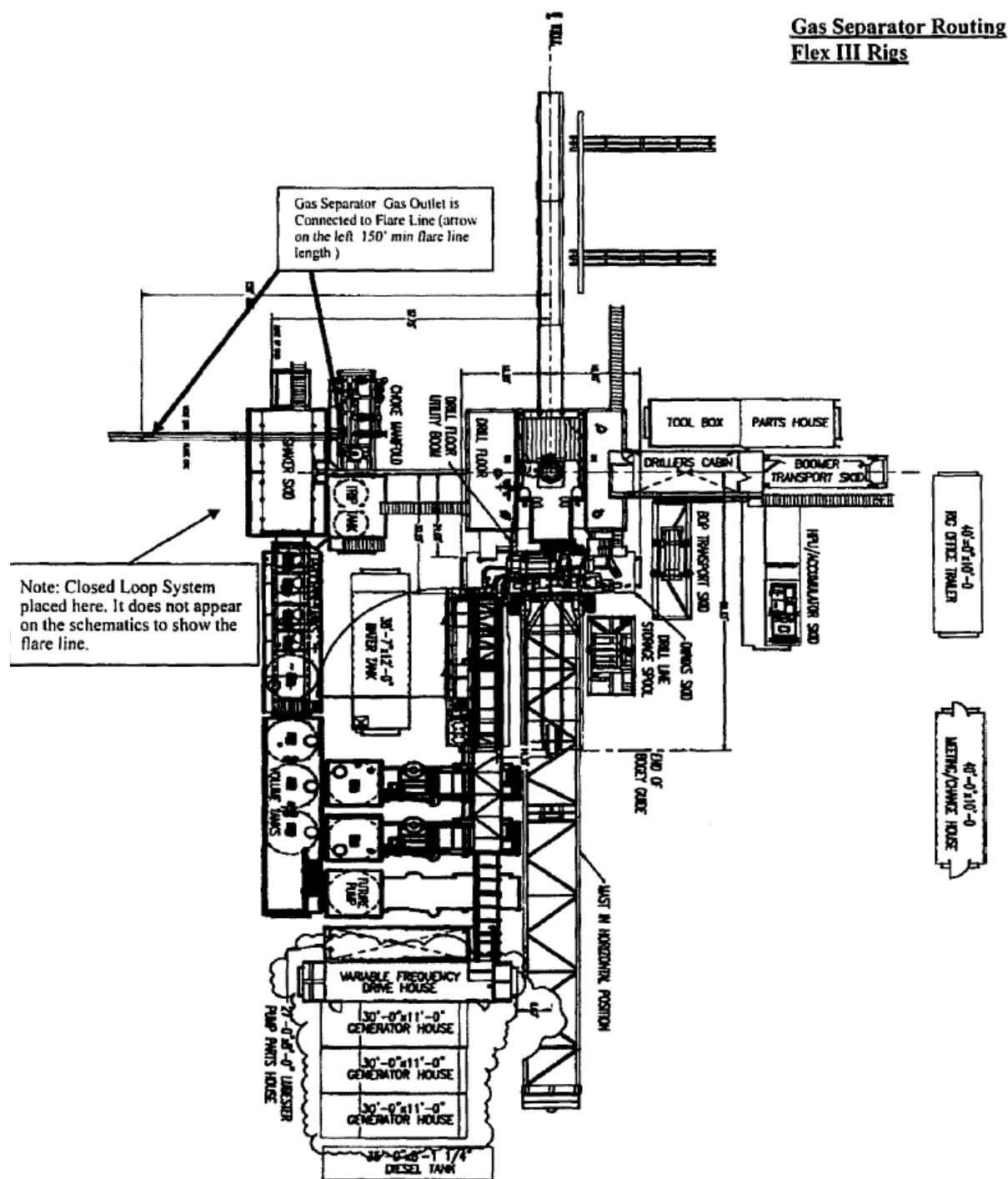
Yada Fed Com 215H

Tap Rock Operating, LLC

SHL 240' FSL & 951' FWL, Sec. 35

BHL 5' FNL & 990' FWL, Sec. 26

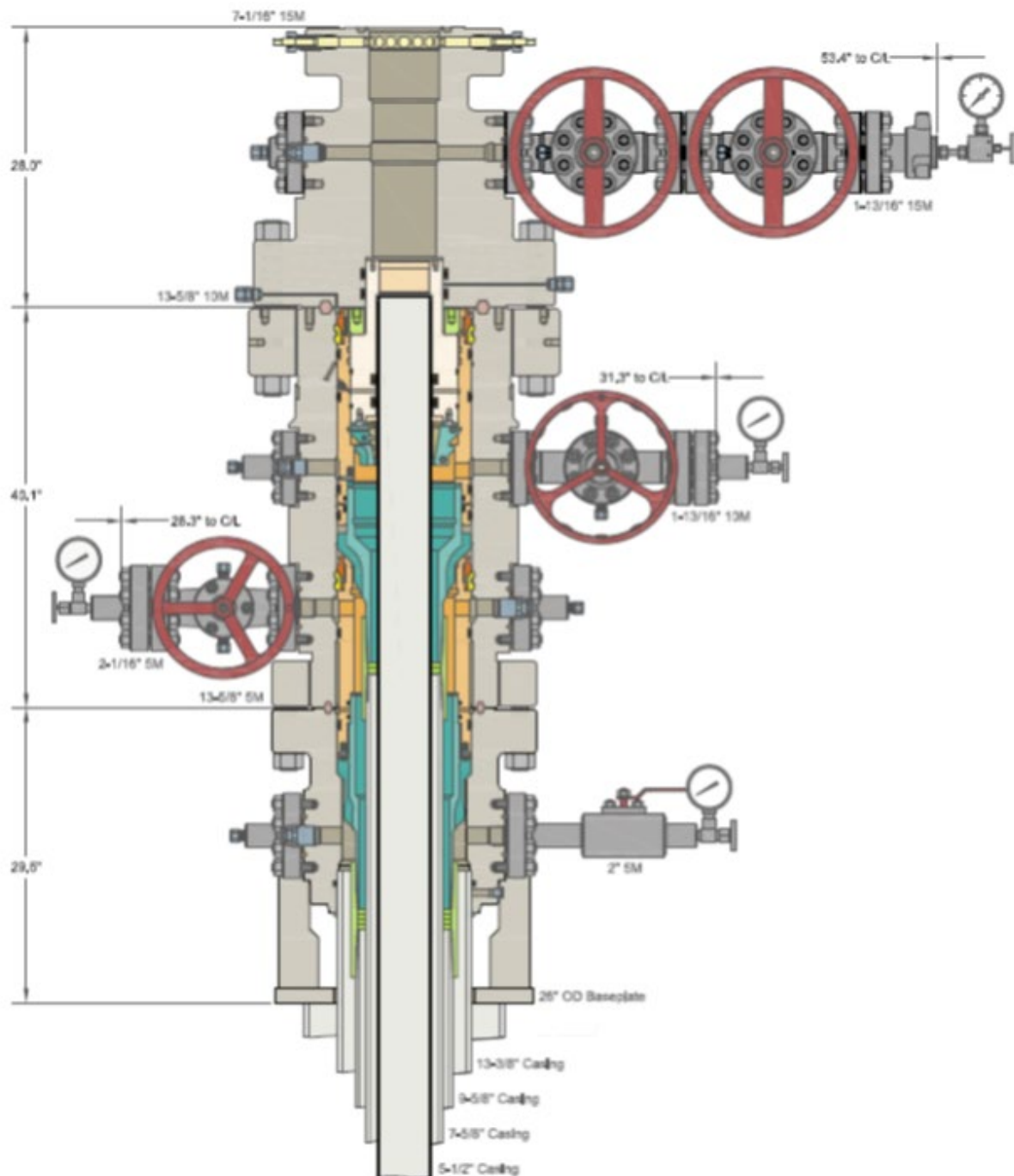
T. 24S, R. 35E Lea County, NM





Drilling Operations Plan
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Tap Rock Operating, LLC
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T. 24S, R. 35E Lea County, NM

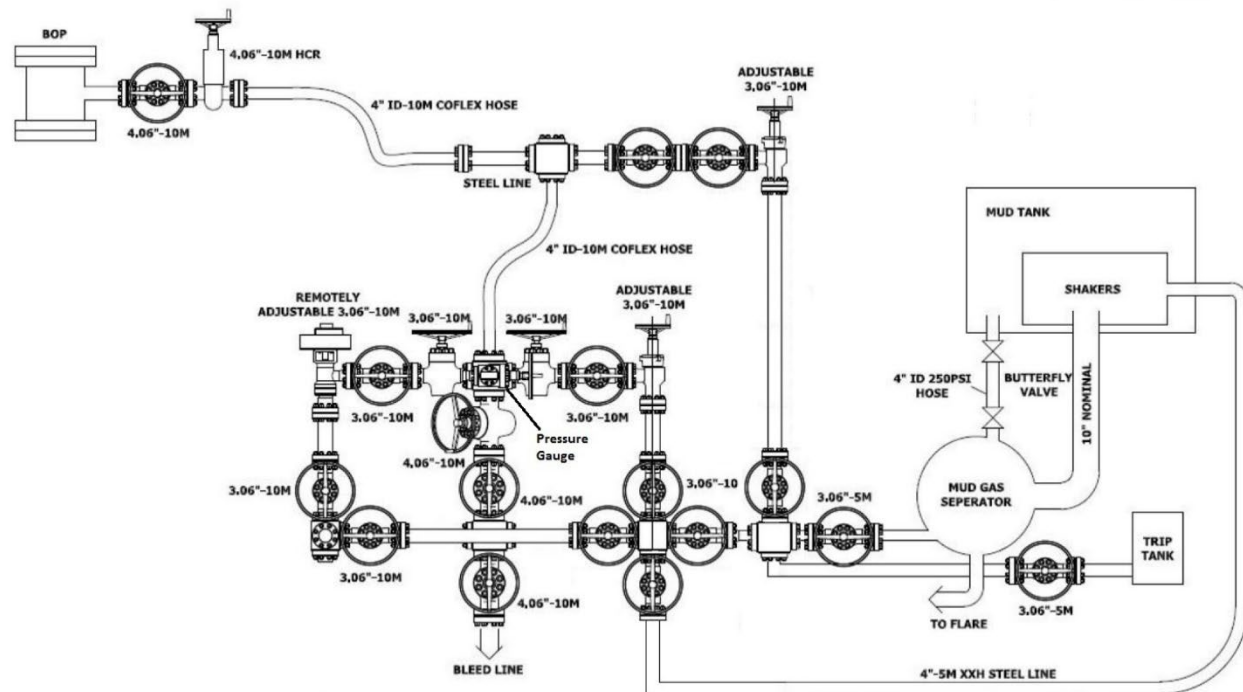
Multi-bowl Wellhead

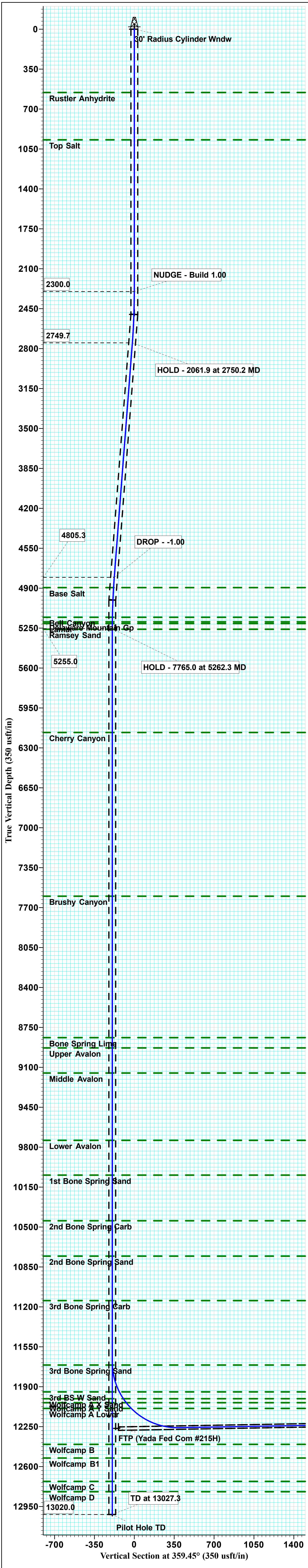




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Yada Fed Com 215H
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T. 24S, R. 35E Lea County, NM

10M Choke Layout





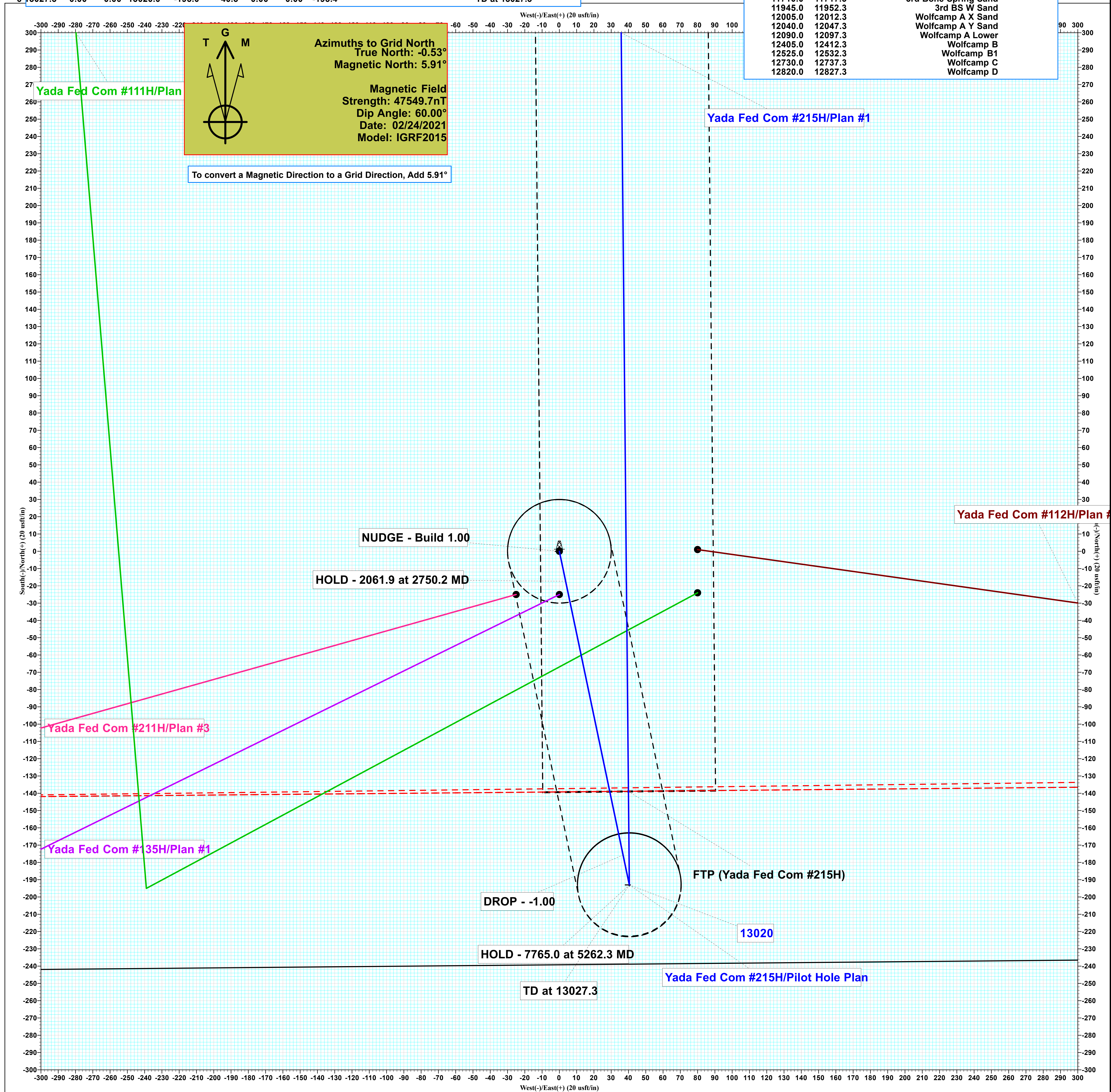
Tap Rock Resources, LLC
Project: Lea County, NM (NAD 83 NME)
Site: (Yada Fed Com) Sec-35_T-24-S_R-35-E
Well: Yada Fed Com #215H
Wellbore: OWB
Design: Pilot Hole Plan
Lat: 32° 10' 2.571 N
Long: 103° 20' 37.577 W
Pad GL: 3256.0
KB: KB = 26 @ 3282.0usft (H&P 264)



WELL DETAILS: Yada Fed Com #215H						
			3256.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	426036.00	847538.00	32° 10' 2.571 N	103° 20' 37.577 W	

Plan Yada Fed Com #215H										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	
3	2750.2	4.50	168.15	2749.7	-17.3	3.6	1.00	168.15	-17.3	NUDGE - Build 1.00
4	4812.1	4.50	168.15	4805.3	-175.7	36.9	0.00	0.00	-176.0	HOLD - 2061.9 at 2750.2 MD
5	5262.3	0.00	0.00	5255.0	-193.0	40.5	1.00	180.00	-193.4	DROP - -1.00
6	13027.3	0.00	0.00	13020.0	-193.0	40.5	0.00	0.00	-193.4	HOLD - 7765.0 at 5262.3 MD
										TD at 13027.3

FORMATION TOPS Yada Fed Com #215H		
TVDPath	MDPath	Formation
555.0	555.0	Rustler Anhydrite
970.0	970.0	Top Salt
4895.0	4902.1	Base Salt
5155.0	5162.3	Bell Canyon
5195.0	5202.3	Delaware Mountain Gp
5210.0	5217.3	Lamar
5260.0	5267.3	Ramsey Sand
6165.0	6172.3	Cherry Canyon
7600.0	7607.3	Brushy Canyon
8840.0	8847.3	Bone Spring Lime
8930.0	8937.3	Upper Avalon
9150.0	9157.3	Middle Avalon
9740.0	9747.3	Lower Avalon
10045.0	10052.3	1st Bone Spring Sand
10445.0	10452.3	2nd Bone Spring Carb
10755.0	10762.3	2nd Bone Spring Sand
11145.0	11152.3	3rd Bone Spring Carb
11710.0	11717.3	3rd Bone Spring Sand
11945.0	11952.3	3rd BS W Sand
12005.0	12012.3	Wolfcamp A X Sand
12040.0	12047.3	Wolfcamp A Y Sand
12090.0	12097.3	Wolfcamp A Lower
12405.0	12412.3	Wolfcamp B
12525.0	12532.3	Wolfcamp B1
12730.0	12737.3	Wolfcamp C
12820.0	12827.3	Wolfcamp D



 COMPANY: Tap Rock Resources, LLC
 FIELD: Lea County, NM (NAD 83 NME)
 WELL NAME: Yada Fed Com #215H
 WELLBORE NAME: OWB
 Survey Name: Pilot Hole Plan
 Extraction Date: 03/06/2021

Calculation Method: Minimum Curvature
 Datum Name: KB = 26
 LAT Reference: Well

Slot EW Map (us/ft): 847538.000
 Slot NS Map (us/ft): 426036.000
 Surface Latitude Map: 32° 10' 2.571 N
 Surface Longitude Map: 103° 20' 37.577 W
 Bottom Hole MD (us/ft): 13027.29
 Bottom Hole TVD (us/ft): 13020.00
 Bottom Hole EW Map (us/ft): 847578.500
 Bottom Hole NS Map (us/ft): 425843.000

GL Elevation: 3256.00
 KB Elevation: 3282.00

MAGNETIC CALCULATION DATE.....: 24-Feb-2021
 Map-Zone: New Mexico Eastern Zone
 North Reference: Grid
 Total Correction: 5.91
 Magnetic dip: 60.00
 Magnetic field strength: 47549.71
 Geo Datum: North American Datum 1983
 VSDIR: 359.45

Measured Depth (ft)	Incl.	Azim.	TVD (ft)	NS (ft)	EW (ft)	Vertical Section (ft)	Dogleg Rate (dega/100ft)	Easting	Northing
0	0	0	0	0	0	0	0	847538	426036
100	0	0	100	0	0	0	0	847538	426036
200	0	0	200	0	0	0	0	847538	426036
300	0	0	300	0	0	0	0	847538	426036
400	0	0	400	0	0	0	0	847538	426036
500	0	0	500	0	0	0	0	847538	426036
600	0	0	600	0	0	0	0	847538	426036
700	0	0	700	0	0	0	0	847538	426036
800	0	0	800	0	0	0	0	847538	426036

900	0	0	900	0	0	0	0	847538	426036	
1000	0	0	1000	0	0	0	0	847538	426036	
1100	0	0	1100	0	0	0	0	847538	426036	
1200	0	0	1200	0	0	0	0	847538	426036	
1300	0	0	1300	0	0	0	0	847538	426036	
1400	0	0	1400	0	0	0	0	847538	426036	
1500	0	0	1500	0	0	0	0	847538	426036	
1600	0	0	1600	0	0	0	0	847538	426036	
1700	0	0	1700	0	0	0	0	847538	426036	
1800	0	0	1800	0	0	0	0	847538	426036	
1900	0	0	1900	0	0	0	0	847538	426036	
2000	0	0	2000	0	0	0	0	847538	426036	
2100	0	0	2100	0	0	0	0	847538	426036	
2200	0	0	2200	0	0	0	0	847538	426036	
2300	0	0	2300	0	0	0	0	847538	426036	NUDGE - Bl
2400	1	168.149	2399.99	-0.85	0.18	-0.86	1	847538.2	426035.1	
2500	2	168.149	2499.96	-3.42	0.72	-3.42	1	847538.7	426032.6	
2600	3	168.149	2599.86	-7.68	1.61	-7.7	1	847539.6	426028.3	
2700	4	168.149	2699.68	-13.66	2.87	-13.69	1	847540.9	426022.3	
2750.21	4.502	168.149	2749.74	-17.3	3.63	-17.34	1	847541.6	426018.7	HOLD - 206
2800	4.502	168.149	2799.38	-21.13	4.43	-21.17	0	847542.4	426014.9	
2900	4.502	168.149	2899.07	-28.81	6.05	-28.87	0	847544	426007.2	
3000	4.502	168.149	2998.77	-36.49	7.66	-36.56	0	847545.7	425999.5	
3100	4.502	168.149	3098.46	-44.17	9.27	-44.26	0	847547.3	425991.8	
3200	4.502	168.149	3198.15	-51.86	10.88	-51.96	0	847548.9	425984.1	
3300	4.502	168.149	3297.84	-59.54	12.49	-59.65	0	847550.5	425976.5	
3400	4.502	168.149	3397.53	-67.22	14.11	-67.35	0	847552.1	425968.8	
3500	4.502	168.149	3497.22	-74.9	15.72	-75.05	0	847553.7	425961.1	
3600	4.502	168.149	3596.91	-82.58	17.33	-82.75	0	847555.3	425953.4	
3700	4.502	168.149	3696.61	-90.27	18.94	-90.44	0	847556.9	425945.7	
3800	4.502	168.149	3796.3	-97.95	20.55	-98.14	0	847558.6	425938.1	
3900	4.502	168.149	3895.99	-105.63	22.17	-105.84	0	847560.2	425930.4	
4000	4.502	168.149	3995.68	-113.31	23.78	-113.54	0	847561.8	425922.7	
4100	4.502	168.149	4095.37	-121	25.39	-121.23	0	847563.4	425915	
4200	4.502	168.149	4195.06	-128.68	27	-128.93	0	847565	425907.3	
4300	4.502	168.149	4294.76	-136.36	28.61	-136.63	0	847566.6	425899.6	
4400	4.502	168.149	4394.45	-144.04	30.23	-144.33	0	847568.2	425892	
4500	4.502	168.149	4494.14	-151.72	31.84	-152.02	0	847569.8	425884.3	
4600	4.502	168.149	4593.83	-159.41	33.45	-159.72	0	847571.5	425876.6	
4700	4.502	168.149	4693.52	-167.09	35.06	-167.42	0	847573.1	425868.9	
4800	4.502	168.149	4793.21	-174.77	36.67	-175.11	0	847574.7	425861.2	
4812.08	4.502	168.149	4805.26	-175.7	36.87	-176.04	0	847574.9	425860.3	DROP - -1.C
4900	3.623	168.149	4892.95	-181.79	38.15	-182.15	1	847576.1	425854.2	
5000	2.623	168.149	4992.8	-187.13	39.27	-187.49	1	847577.3	425848.9	
5100	1.623	168.149	5092.73	-190.75	40.03	-191.13	1	847578	425845.2	
5200	0.623	168.149	5192.71	-192.67	40.43	-193.05	1	847578.4	425843.3	
5262.29	0	0	5255	-193	40.5	-193.38	1	847578.5	425843	HOLD - 776

5300	0	0	5292.71	-193	40.5	-193.38	0	847578.5	425843
5400	0	0	5392.71	-193	40.5	-193.38	0	847578.5	425843
5500	0	0	5492.71	-193	40.5	-193.38	0	847578.5	425843
5600	0	0	5592.71	-193	40.5	-193.38	0	847578.5	425843
5700	0	0	5692.71	-193	40.5	-193.38	0	847578.5	425843
5800	0	0	5792.71	-193	40.5	-193.38	0	847578.5	425843
5900	0	0	5892.71	-193	40.5	-193.38	0	847578.5	425843
6000	0	0	5992.71	-193	40.5	-193.38	0	847578.5	425843
6100	0	0	6092.71	-193	40.5	-193.38	0	847578.5	425843
6200	0	0	6192.71	-193	40.5	-193.38	0	847578.5	425843
6300	0	0	6292.71	-193	40.5	-193.38	0	847578.5	425843
6400	0	0	6392.71	-193	40.5	-193.38	0	847578.5	425843
6500	0	0	6492.71	-193	40.5	-193.38	0	847578.5	425843
6600	0	0	6592.71	-193	40.5	-193.38	0	847578.5	425843
6700	0	0	6692.71	-193	40.5	-193.38	0	847578.5	425843
6800	0	0	6792.71	-193	40.5	-193.38	0	847578.5	425843
6900	0	0	6892.71	-193	40.5	-193.38	0	847578.5	425843
7000	0	0	6992.71	-193	40.5	-193.38	0	847578.5	425843
7100	0	0	7092.71	-193	40.5	-193.38	0	847578.5	425843
7200	0	0	7192.71	-193	40.5	-193.38	0	847578.5	425843
7300	0	0	7292.71	-193	40.5	-193.38	0	847578.5	425843
7400	0	0	7392.71	-193	40.5	-193.38	0	847578.5	425843
7500	0	0	7492.71	-193	40.5	-193.38	0	847578.5	425843
7600	0	0	7592.71	-193	40.5	-193.38	0	847578.5	425843
7700	0	0	7692.71	-193	40.5	-193.38	0	847578.5	425843
7800	0	0	7792.71	-193	40.5	-193.38	0	847578.5	425843
7900	0	0	7892.71	-193	40.5	-193.38	0	847578.5	425843
8000	0	0	7992.71	-193	40.5	-193.38	0	847578.5	425843
8100	0	0	8092.71	-193	40.5	-193.38	0	847578.5	425843
8200	0	0	8192.71	-193	40.5	-193.38	0	847578.5	425843
8300	0	0	8292.71	-193	40.5	-193.38	0	847578.5	425843
8400	0	0	8392.71	-193	40.5	-193.38	0	847578.5	425843
8500	0	0	8492.71	-193	40.5	-193.38	0	847578.5	425843
8600	0	0	8592.71	-193	40.5	-193.38	0	847578.5	425843
8700	0	0	8692.71	-193	40.5	-193.38	0	847578.5	425843
8800	0	0	8792.71	-193	40.5	-193.38	0	847578.5	425843
8900	0	0	8892.71	-193	40.5	-193.38	0	847578.5	425843
9000	0	0	8992.71	-193	40.5	-193.38	0	847578.5	425843
9100	0	0	9092.71	-193	40.5	-193.38	0	847578.5	425843
9200	0	0	9192.71	-193	40.5	-193.38	0	847578.5	425843
9300	0	0	9292.71	-193	40.5	-193.38	0	847578.5	425843
9400	0	0	9392.71	-193	40.5	-193.38	0	847578.5	425843
9500	0	0	9492.71	-193	40.5	-193.38	0	847578.5	425843
9600	0	0	9592.71	-193	40.5	-193.38	0	847578.5	425843
9700	0	0	9692.71	-193	40.5	-193.38	0	847578.5	425843
9800	0	0	9792.71	-193	40.5	-193.38	0	847578.5	425843
9900	0	0	9892.71	-193	40.5	-193.38	0	847578.5	425843

10000	0	0	9992.71	-193	40.5	-193.38	0	847578.5	425843
10100	0	0	10092.71	-193	40.5	-193.38	0	847578.5	425843
10200	0	0	10192.71	-193	40.5	-193.38	0	847578.5	425843
10300	0	0	10292.71	-193	40.5	-193.38	0	847578.5	425843
10400	0	0	10392.71	-193	40.5	-193.38	0	847578.5	425843
10500	0	0	10492.71	-193	40.5	-193.38	0	847578.5	425843
10600	0	0	10592.71	-193	40.5	-193.38	0	847578.5	425843
10700	0	0	10692.71	-193	40.5	-193.38	0	847578.5	425843
10800	0	0	10792.71	-193	40.5	-193.38	0	847578.5	425843
10900	0	0	10892.71	-193	40.5	-193.38	0	847578.5	425843
11000	0	0	10992.71	-193	40.5	-193.38	0	847578.5	425843
11100	0	0	11092.71	-193	40.5	-193.38	0	847578.5	425843
11200	0	0	11192.71	-193	40.5	-193.38	0	847578.5	425843
11300	0	0	11292.71	-193	40.5	-193.38	0	847578.5	425843
11400	0	0	11392.71	-193	40.5	-193.38	0	847578.5	425843
11500	0	0	11492.71	-193	40.5	-193.38	0	847578.5	425843
11600	0	0	11592.71	-193	40.5	-193.38	0	847578.5	425843
11700	0	0	11692.71	-193	40.5	-193.38	0	847578.5	425843
11800	0	0	11792.71	-193	40.5	-193.38	0	847578.5	425843
11900	0	0	11892.71	-193	40.5	-193.38	0	847578.5	425843
12000	0	0	11992.71	-193	40.5	-193.38	0	847578.5	425843
12100	0	0	12092.71	-193	40.5	-193.38	0	847578.5	425843
12200	0	0	12192.71	-193	40.5	-193.38	0	847578.5	425843
12300	0	0	12292.71	-193	40.5	-193.38	0	847578.5	425843
12400	0	0	12392.71	-193	40.5	-193.38	0	847578.5	425843
12500	0	0	12492.71	-193	40.5	-193.38	0	847578.5	425843
12600	0	0	12592.71	-193	40.5	-193.38	0	847578.5	425843
12700	0	0	12692.71	-193	40.5	-193.38	0	847578.5	425843
12800	0	0	12792.71	-193	40.5	-193.38	0	847578.5	425843
12900	0	0	12892.71	-193	40.5	-193.38	0	847578.5	425843
13000	0	0	12992.71	-193	40.5	-193.38	0	847578.5	425843
13027.29	0	0	13020	-193	40.5	-193.38	0	847578.5	425843 TD at 1302'

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
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District IV

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

CONDITIONS

Action 22143

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	372043	22143	C-103A
523 Park Point Drive			
OCD Reviewer	Condition		
pkautz	None		