

Well Name: CATTLEMEN FED COM	Well Location: T26S / R35E / SEC 17 / SEnw / 32.0448345 / -103.3915424	County or Parish/State: LEA / NM
Well Number: 432H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM104706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548124	Well Status: Drilling Well	Operator: TITUS OIL AND GAS PRODUCTION LLC

Notice of Intent

Sundry ID: 2641359

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 10/22/2021	Time Sundry Submitted: 03:59
Date proposed operation will begin: 10/31/2021	

Procedure Description: Name change from Cattlemen Fed Com 322H to Cattlemen Fed Com 432H; Pool Name/Code correction from WC-025 G-08 S263412K; Bone Spring (96672) to Jabalina; Wolfcamp, Southwest (96776); Depth change from 12,541' TVD and 20,798' MD to 12,776' TVD and 21,101' MD; Casing and Cement changes to account for well bore adjustments; Change to multi-bowl wellhead; Updated Choke Hose diagram; Other changes consistent with wellbore and depth adjustments. Attachments: -Revised C-102 -Revised Drilling Plan -Revised Directional Plan & AC Report -Multi-bowl Schematic -Choke Hose Schematic

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- AFS__Multi_Bowl_Schematic_20211022155808.pdf
- CATTLEMEN_FED_COM_432H__FKA_322H__C102_REV_1_SIGNED_20211022155755.pdf
- Choke_Hose_SN_66552_20211022155754.pdf
- Cattleman_Fed_Com_432H__Plan_3_10_22_21_20211022155754.pdf
- Cattleman_Fed_Com_432H__Plan_3_10_22_21_AC_Report_20211022155754.pdf
- Cattlemen_Fed_Com_432H__APD_Temp__WC_3S_10M__20211022155754.pdf

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Lease Number: NMNM104706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548124	Well Status: Drilling Well	Operator: TITUS OIL AND GAS PRODUCTION LLC

Conditions of Approval

Specialist Review
Cattlemen_Fed_Com_432H__COA_20211216164943.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: RYAN DELONG	Signed on: OCT 22, 2021 03:58 PM
Name: TITUS OIL AND GAS PRODUCTION LLC	
Title: Regulatory Manager	
Street Address: 420 Throckmorton Street, Suite 1150	
City: Fort Worth	State: TX
Phone: (817) 852-6370	
Email address: rdelong@titusoil.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345998	BLM POC Email Address: ZSTEVENS@BLM.GOV
Disposition: Approved	Disposition Date: 12/16/2021
Signature: Zota Stevens	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48124	2 Pool Code 96776	3 Pool Name JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code 329879	5 Property Name CATTLEMEN FED COM	6 Well Number 432H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3229'

" Surface Location

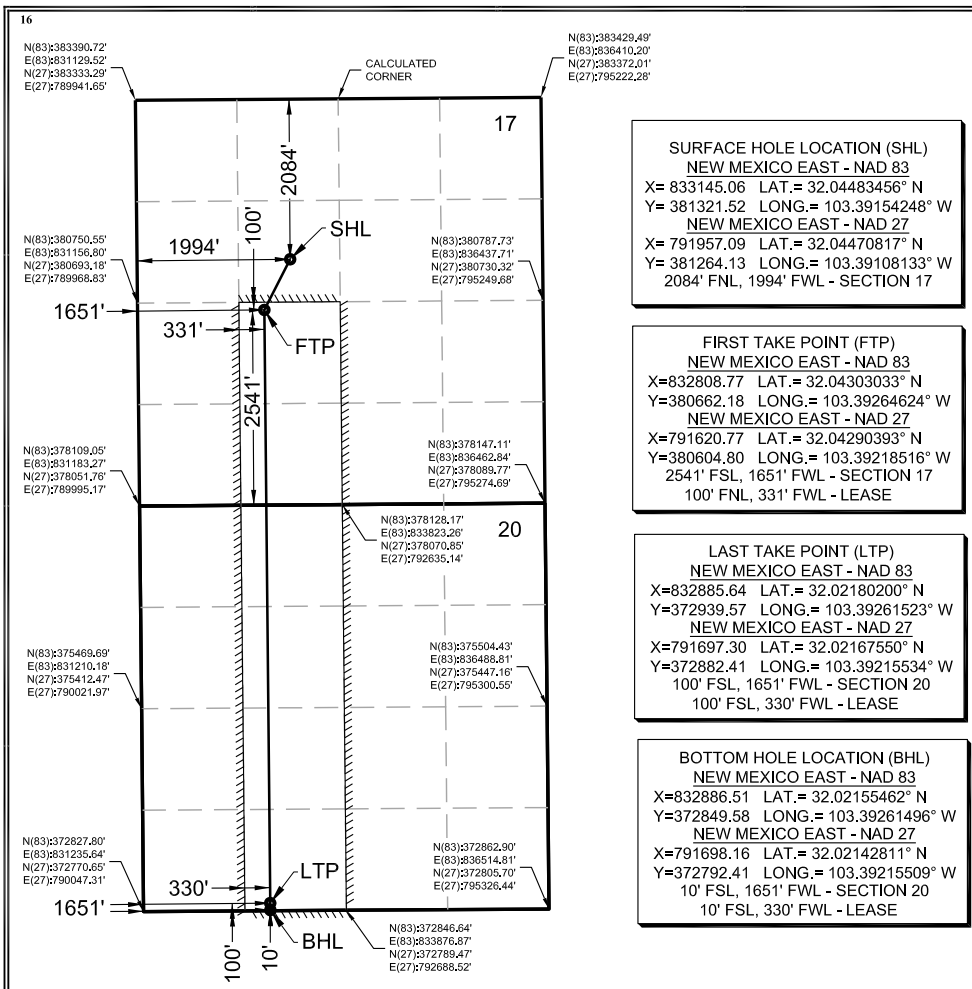
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	26-S	35-E		2084'	NORTH	1994'	WEST	LEA

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	26-S	35-E		10'	SOUTH	1651'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240	Y		

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.



17 OPERATOR CERTIFICATION

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

Signature: *[Signature]* / .-00/2021/ Date

Ryan DeLong - Regulatory Manager
Printed Name

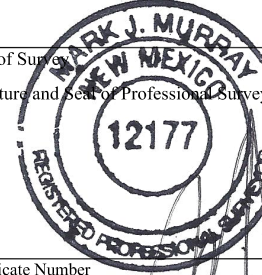
rdelong@titusoil.com
E-mail Address

18 SURVEYOR CERTIFICATION

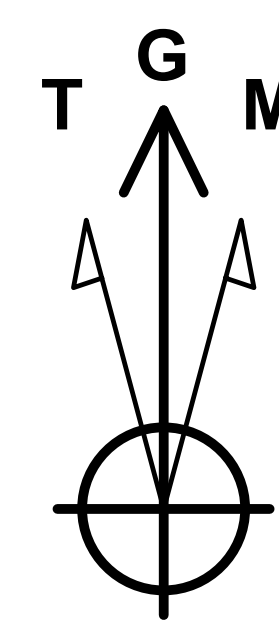
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: *[Signature]*
Signature and Seal of Professional Surveyor:

Certificate Number

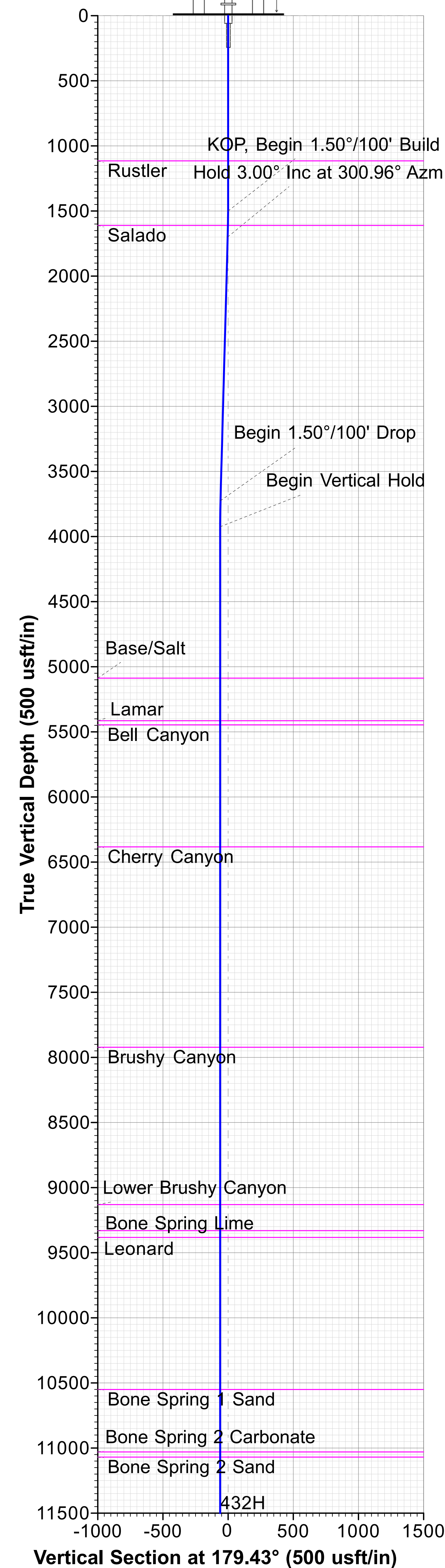


10/8/2021

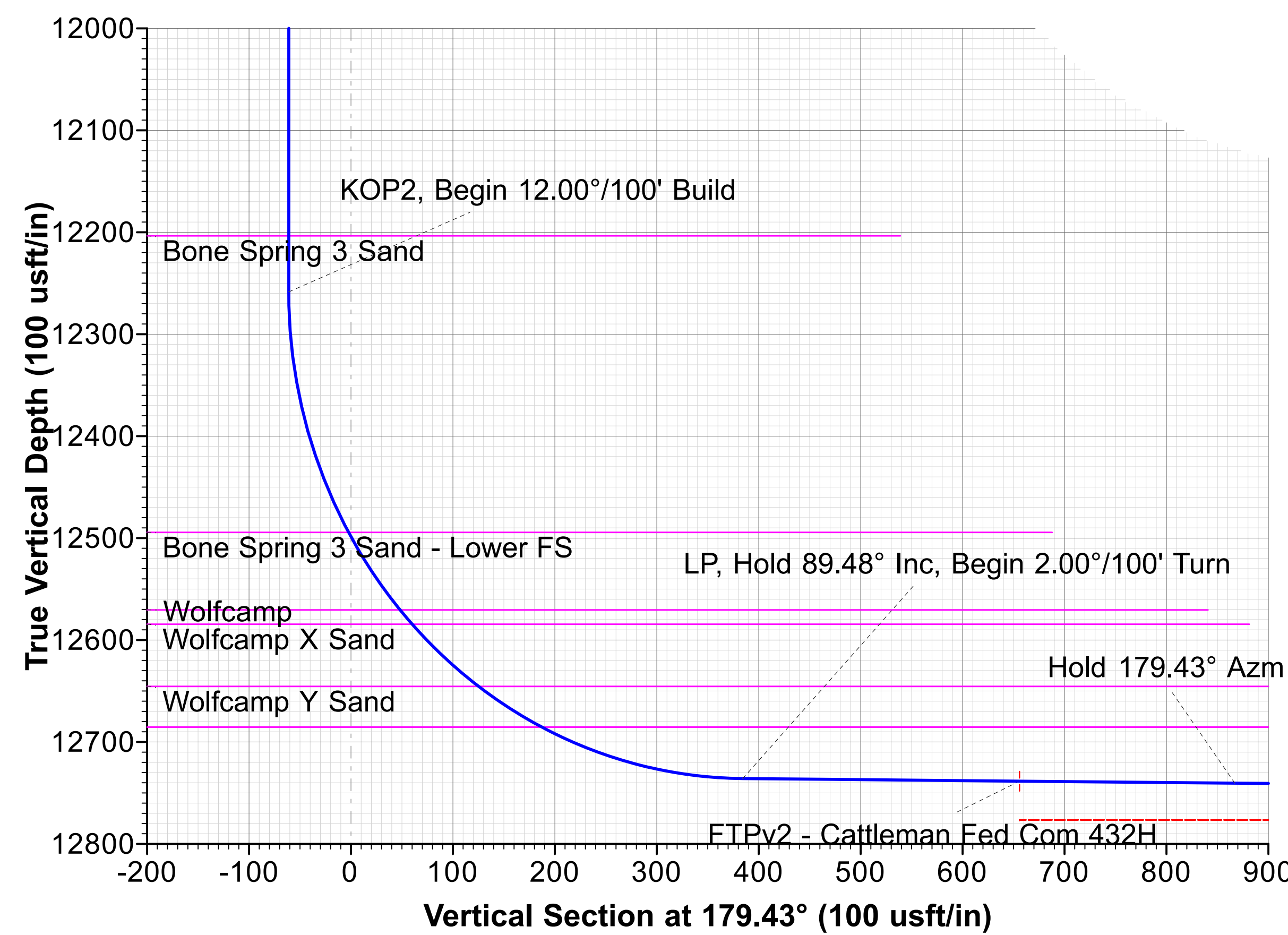


RKB @ 3255.50usft (H&P 474)

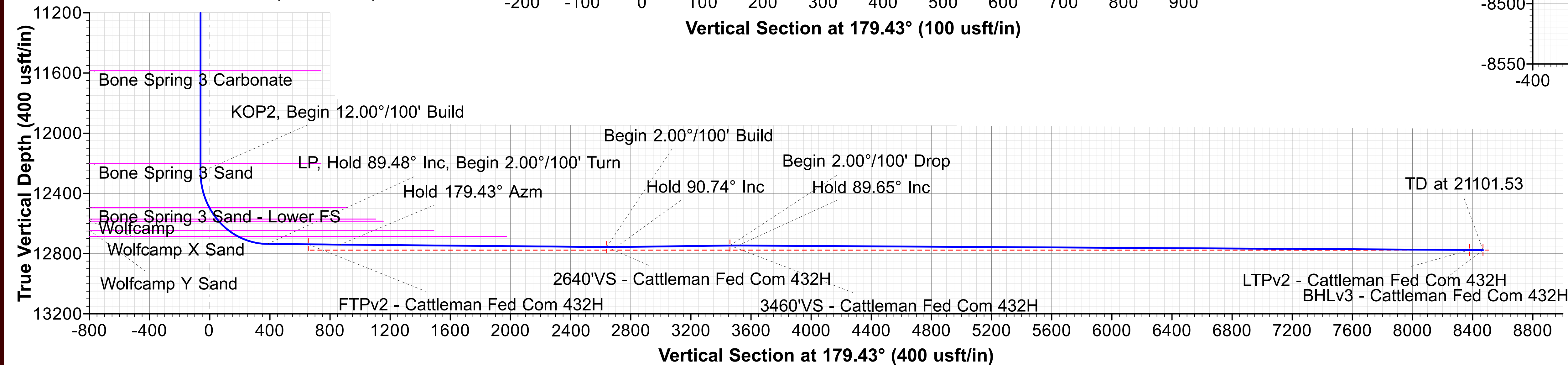
Ground Level: 3229.00



Vertical Section at 179.43° (500 usft/in)



Vertical Section at 179.43° (100 usft/in)



Vertical Section at 179.43° (400 usft/in)

WELL DETAILS						
Ground Level:	3229.00					
	Easting	Latitude	Longitude			
	381321.52	32° 2' 41.404392 N	103° 23' 29.552938 W			
+N/-S	+E/-W	Northing				
0.00	0.00	833145.06				

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTPv2 - Cattleman Fed Com 432H	12738.50	-659.34	-336.29	380662.18	832808.77	32° 2' 34.909224 N	103° 23' 33.526496 W
3460VS - Cattleman Fed Com 432H	12746.50	-3463.24	-308.39	377858.28	832836.67	32° 2' 7.162184 N	103° 23' 33.486113 W
2640VS - Cattleman Fed Com 432H	12756.50	-2643.28	-316.55	378678.24	832828.51	32° 2' 15.276408 N	103° 23' 33.497940 W
BHLv3 - Cattleman Fed Com 432H	12776.50	-8471.94	-258.55	372849.58	832886.51	32° 1' 17.596639 N	103° 23' 33.413825 W
LTPv2 - Cattleman Fed Com 432H	12776.50	-8381.95	-259.42	372939.57	832885.64	32° 1' 18.487169 N	103° 23' 33.414830 W

SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	1700.03	3.00	300.96	1699.94	2.69	-4.49	1.50	300.96	-2.74		KOP, Begin 1.50°/100' Build	
4	3727.94	3.00	300.96	3725.06	57.31	-95.51	0.00	0.00	-58.25		Hold 3.00° Inc at 300.96° Azm	
5	3927.96	0.00	0.00	3925.00	60.00	-100.00	1.50	180.00	-60.99		Begin 1.50°/100' Drop	
6	12261.46	0.00	0.00	12258.50	60.00	-100.00	0.00	0.00	-60.99		Begin Vertical Hold	
7	13007.13	89.48	199.13	12735.95	-387.00	-255.05	12.00	199.13	384.45		KOP2, Begin 12.00°/100' Build	
8	13499.52	89.48	179.43	12740.45	-870.54	-334.08	4.00	-90.09	867.17		LP, Hold 89.48° Inc, Begin 2.00°/100' Turn	
9	15272.42	89.48	179.43	12756.50	-2643.28	-316.55	0.00	0.00	2640.00	2640VS - Cattleman Fed Com 432H	Hold 179.43° Azm	
10	15335.73	90.75	179.43	12756.37	-2706.59	-315.92	2.00	-0.18	2703.31		Begin 2.00°/100' Build	
11	16092.49	90.75	179.43	12746.50	-3463.24	-308.39	0.00	0.00	3460.00	3460VS - Cattleman Fed Com 432H	Hold 90.74° Inc	
12	16147.32	89.65	179.43	12746.31	-3518.07	-307.84	2.00	179.99	3514.84		Begin 2.00°/100' Drop	
13	21101.53	89.65	179.43	12776.50	-8471.94	-258.55	0.00	0.00	8468.95	BHLv3 - Cattleman Fed Com 432H	Hold 89.65° Inc	
											TD at 21101.53	

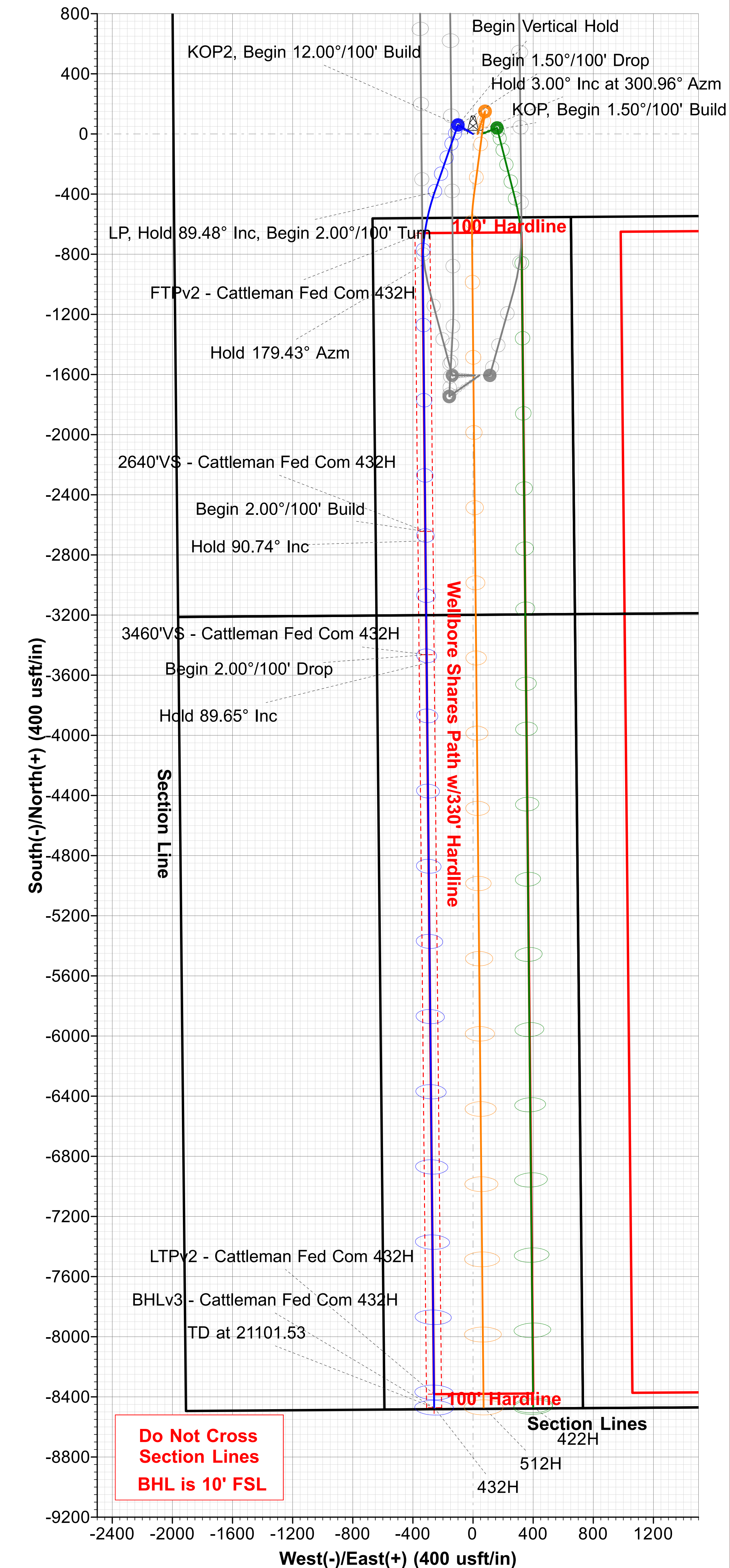
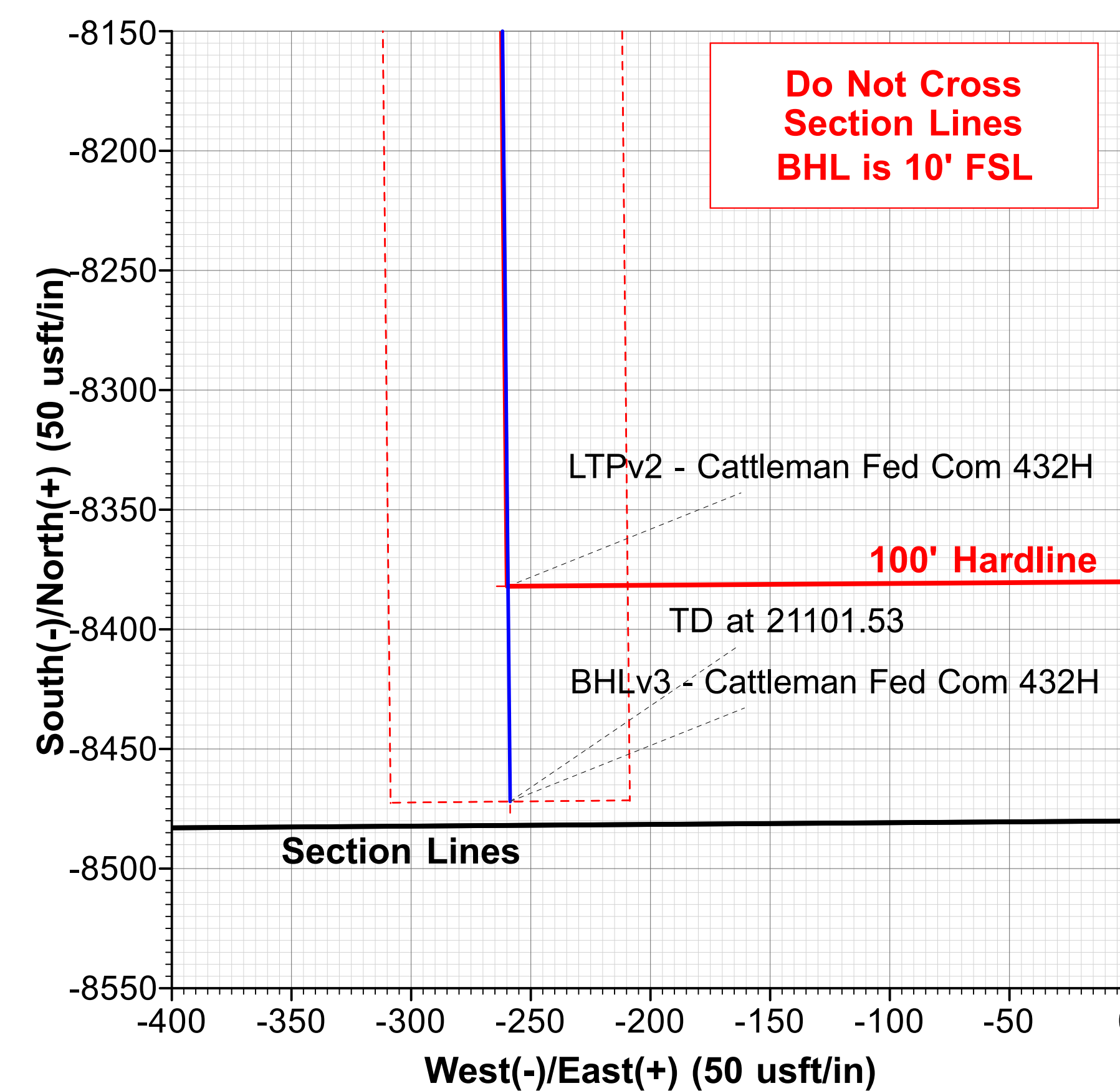
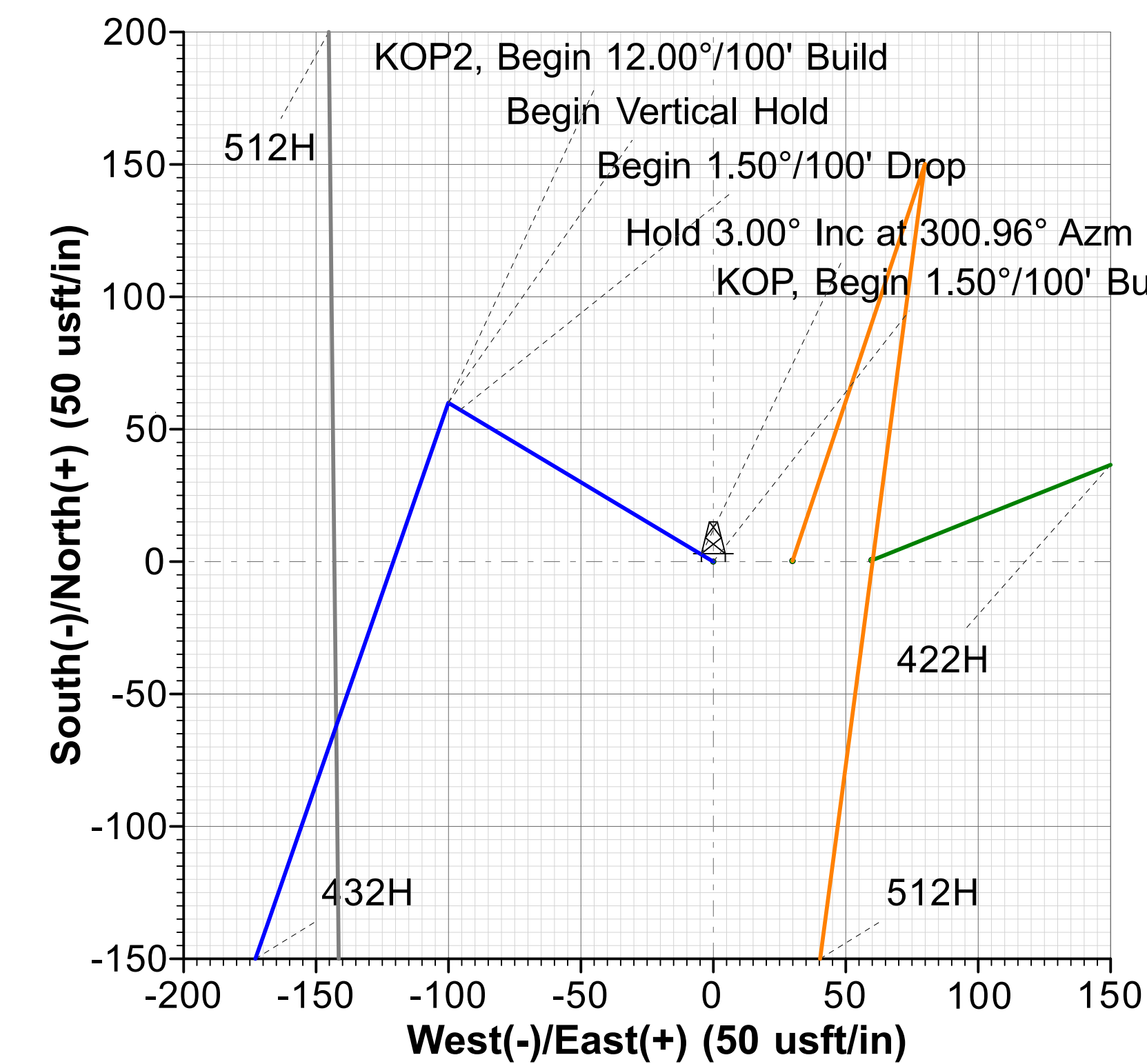
Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well 432H, Grid North
Latitude: 32° 2' 41.404392 N
Longitude: 103° 23' 29.552938 W
Grid East: 833145.06
Grid North: 381321.52
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 13-Oct-21
Magnetic Declination: 6.32°
Dip Angle from Horizontal: 59.62°
Magnetic Field Strength: 47427.81019849nT

To convert a Magnetic Direction to a Grid Direction, Add 5.82°
To convert a Magnetic Direction to a True Direction, Add 6.32° East
To convert a True Direction to a Grid Direction, Subtract 0.50°

LEGEND

- 422H, OH, Plan 1 10-22-21 V0
- 432H, OH, Plan 3 V0
- 512H, OH, Plan 3 10-22-21 V0
- 402H (FKA) 322H, OH, Plan 3 V0
- 512H, OH, Plan 3 V0
- Plan 3 10-22-21





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

Cattleman Fed Com

432H

OH

Plan: Plan 3 10-22-21

Standard Planning Report

22 October, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

Project	Lea County, NM - (NAD83 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	Cattleman Fed Com					
Site Position:		Northing:	381,095.42 usft	Latitude:	32° 2' 39.166941 N	
From:	Map	Easting:	833,147.27 usft	Longitude:	103° 23' 29.550174 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	432H					
Well Position	+N/-S	226.10 usft	Northing:	381,321.52 usft	Latitude:	32° 2' 41.404392 N
	+E/-W	-2.21 usft	Easting:	833,145.06 usft	Longitude:	103° 23' 29.552938 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,229.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	10/13/2021	6.32	59.62	47,427.81019849

Design	Plan 3 10-22-21				
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	179.43	

Plan Survey Tool Program	Date	10/22/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	21,101.53	Plan 3 10-22-21 (OH)	MWD+HDGM	
				OWSG Rev.2 MWD + HDGM	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.03	3.00	300.96	1,699.94	2.69	-4.49	1.50	1.50	0.00	300.96	
3,727.94	3.00	300.96	3,725.06	57.31	-95.51	0.00	0.00	0.00	0.00	
3,927.96	0.00	0.00	3,925.00	60.00	-100.00	1.50	-1.50	0.00	180.00	
12,261.46	0.00	0.00	12,258.50	60.00	-100.00	0.00	0.00	0.00	0.00	
13,007.13	89.48	199.13	12,735.95	-387.00	-255.05	12.00	12.00	0.00	199.13	
13,499.52	89.48	179.43	12,740.45	-870.54	-334.08	4.00	0.00	-4.00	-90.09	
15,272.42	89.48	179.43	12,756.50	-2,643.28	-316.55	0.00	0.00	0.00	0.00	2640°VS - Cattleman I
15,335.73	90.75	179.43	12,756.37	-2,706.59	-315.92	2.00	2.00	-0.01	-0.18	
16,092.49	90.75	179.43	12,746.50	-3,463.24	-308.39	0.00	0.00	0.00	0.00	3460°VS - Cattleman I
16,147.32	89.65	179.43	12,746.31	-3,518.07	-307.84	2.00	-2.00	0.00	179.99	
21,101.53	89.65	179.43	12,776.50	-8,471.94	-258.55	0.00	0.00	0.00	0.00	BHLv3 - Cattleman Fe



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

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
1,115.50	0.00	0.00	1,115.50	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.50°/100' Build									
1,600.00	1.50	300.96	1,599.99	0.67	-1.12	-0.68	1.50	1.50	0.00
1,611.52	1.67	300.96	1,611.50	0.84	-1.40	-0.85	1.50	1.50	0.00
Salado									
1,700.00	3.00	300.96	1,699.91	2.69	-4.49	-2.74	1.50	1.50	0.00
1,700.03	3.00	300.96	1,699.94	2.69	-4.49	-2.74	1.50	1.50	0.00
Hold 3.00° Inc at 300.96° Azm									
1,800.00	3.00	300.96	1,799.77	5.39	-8.98	-5.48	0.00	0.00	0.00
1,900.00	3.00	300.96	1,899.63	8.08	-13.47	-8.21	0.00	0.00	0.00
2,000.00	3.00	300.96	1,999.50	10.77	-17.95	-10.95	0.00	0.00	0.00
2,100.00	3.00	300.96	2,099.36	13.47	-22.44	-13.69	0.00	0.00	0.00
2,200.00	3.00	300.96	2,199.22	16.16	-26.93	-16.43	0.00	0.00	0.00
2,300.00	3.00	300.96	2,299.09	18.85	-31.42	-19.16	0.00	0.00	0.00
2,400.00	3.00	300.96	2,398.95	21.54	-35.91	-21.90	0.00	0.00	0.00
2,500.00	3.00	300.96	2,498.81	24.24	-40.40	-24.64	0.00	0.00	0.00
2,600.00	3.00	300.96	2,598.67	26.93	-44.88	-27.38	0.00	0.00	0.00
2,700.00	3.00	300.96	2,698.54	29.62	-49.37	-30.11	0.00	0.00	0.00
2,800.00	3.00	300.96	2,798.40	32.32	-53.86	-32.85	0.00	0.00	0.00
2,900.00	3.00	300.96	2,898.26	35.01	-58.35	-35.59	0.00	0.00	0.00
3,000.00	3.00	300.96	2,998.13	37.70	-62.84	-38.33	0.00	0.00	0.00
3,100.00	3.00	300.96	3,097.99	40.40	-67.33	-41.06	0.00	0.00	0.00
3,200.00	3.00	300.96	3,197.85	43.09	-71.81	-43.80	0.00	0.00	0.00
3,300.00	3.00	300.96	3,297.72	45.78	-76.30	-46.54	0.00	0.00	0.00
3,400.00	3.00	300.96	3,397.58	48.47	-80.79	-49.28	0.00	0.00	0.00
3,500.00	3.00	300.96	3,497.44	51.17	-85.28	-52.01	0.00	0.00	0.00
3,600.00	3.00	300.96	3,597.30	53.86	-89.77	-54.75	0.00	0.00	0.00
3,700.00	3.00	300.96	3,697.17	56.55	-94.26	-57.49	0.00	0.00	0.00
3,727.94	3.00	300.96	3,725.06	57.31	-95.51	-58.25	0.00	0.00	0.00
Begin 1.50°/100' Drop									
3,800.00	1.92	300.96	3,797.06	58.90	-98.16	-59.87	1.50	-1.50	0.00
3,900.00	0.42	300.96	3,897.04	59.95	-99.91	-60.94	1.50	-1.50	0.00
3,927.96	0.00	0.00	3,925.00	60.00	-100.00	-60.99	1.50	-1.50	0.00
Begin Vertical Hold									
5,090.46	0.00	0.00	5,087.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Base/Salt									
5,417.46	0.00	0.00	5,414.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Lamar									
5,449.46	0.00	0.00	5,446.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bell Canyon									
6,386.46	0.00	0.00	6,383.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Cherry Canyon									
7,925.46	0.00	0.00	7,922.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Brushy Canyon									
9,133.46	0.00	0.00	9,130.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Lower Brushy Canyon									
9,333.46	0.00	0.00	9,330.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring Lime									
9,385.46	0.00	0.00	9,382.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Leonard									



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

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)
10,553.46	0.00	0.00	10,550.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring 1 Sand									
11,033.46	0.00	0.00	11,030.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring 2 Carbonate									
11,072.46	0.00	0.00	11,069.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring 2 Sand									
11,588.46	0.00	0.00	11,585.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring 3 Carbonate									
12,206.46	0.00	0.00	12,203.50	60.00	-100.00	-60.99	0.00	0.00	0.00
Bone Spring 3 Sand									
12,261.46	0.00	0.00	12,258.50	60.00	-100.00	-60.99	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
12,300.00	4.62	199.13	12,297.00	58.53	-100.51	-59.53	12.00	12.00	0.00
12,400.00	16.62	199.13	12,395.10	41.14	-106.54	-42.20	12.00	12.00	0.00
12,500.00	28.62	199.13	12,487.24	4.87	-119.12	-6.05	12.00	12.00	0.00
12,508.31	29.62	199.13	12,494.50	1.04	-120.45	-2.24	12.00	12.00	0.00
Bone Spring 3 Sand - Lower FS									
12,600.00	40.62	199.13	12,569.38	-48.72	-137.71	47.35	12.00	12.00	0.00
12,601.48	40.80	199.13	12,570.50	-49.63	-138.03	48.26	12.00	12.00	0.00
Wolfcamp									
12,620.30	43.06	199.13	12,584.50	-61.51	-142.15	60.09	12.00	12.00	0.00
Wolfcamp X Sand									
12,700.00	52.62	199.13	12,637.93	-117.26	-161.49	115.65	12.00	12.00	0.00
12,712.70	54.15	199.13	12,645.50	-126.89	-164.83	125.25	12.00	12.00	0.00
Wolfcamp Y Sand									
12,789.96	63.42	199.13	12,685.50	-189.25	-186.46	187.39	12.00	12.00	0.00
Wolfcamp A									
12,800.00	64.62	199.13	12,689.90	-197.78	-189.42	195.89	12.00	12.00	0.00
12,900.00	76.62	199.13	12,723.01	-286.74	-220.27	284.54	12.00	12.00	0.00
13,000.00	88.62	199.13	12,735.83	-380.27	-252.72	377.74	12.00	12.00	0.00
13,007.13	89.48	199.13	12,735.95	-387.00	-255.05	384.45	12.00	12.00	0.00
LP, Hold 89.48° Inc, Begin 2.00°/100' Turn									
13,100.00	89.48	195.42	12,736.79	-475.67	-282.62	472.83	4.00	0.00	-4.00
13,200.00	89.47	191.41	12,737.71	-572.91	-305.81	569.84	4.00	0.00	-4.00
13,300.00	89.47	187.41	12,738.63	-671.54	-322.17	668.31	4.00	0.00	-4.00
13,400.00	89.48	183.41	12,739.55	-771.07	-331.60	767.74	4.00	0.00	-4.00
13,499.52	89.48	179.43	12,740.45	-870.54	-334.08	867.17	4.00	0.01	-4.00
Hold 179.43° Azm									
13,500.00	89.48	179.43	12,740.46	-871.02	-334.07	867.65	0.00	0.00	0.00
13,600.00	89.48	179.43	12,741.36	-971.01	-333.08	967.65	0.00	0.00	0.00
13,700.00	89.48	179.43	12,742.27	-1,071.00	-332.09	1,067.64	0.00	0.00	0.00
13,800.00	89.48	179.43	12,743.17	-1,170.99	-331.10	1,167.64	0.00	0.00	0.00
13,900.00	89.48	179.43	12,744.08	-1,270.98	-330.12	1,267.64	0.00	0.00	0.00
14,000.00	89.48	179.43	12,744.98	-1,370.97	-329.13	1,367.63	0.00	0.00	0.00
14,100.00	89.48	179.43	12,745.89	-1,470.96	-328.14	1,467.63	0.00	0.00	0.00
14,200.00	89.48	179.43	12,746.79	-1,570.96	-327.15	1,567.62	0.00	0.00	0.00
14,300.00	89.48	179.43	12,747.70	-1,670.95	-326.16	1,667.62	0.00	0.00	0.00
14,400.00	89.48	179.43	12,748.60	-1,770.94	-325.17	1,767.61	0.00	0.00	0.00
14,500.00	89.48	179.43	12,749.51	-1,870.93	-324.19	1,867.61	0.00	0.00	0.00
14,600.00	89.48	179.43	12,750.41	-1,970.92	-323.20	1,967.61	0.00	0.00	0.00
14,700.00	89.48	179.43	12,751.32	-2,070.91	-322.21	2,067.60	0.00	0.00	0.00
14,800.00	89.48	179.43	12,752.22	-2,170.90	-321.22	2,167.60	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

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)	
14,900.00	89.48	179.43	12,753.13	-2,270.89	-320.23	2,267.59	0.00	0.00	0.00	
15,000.00	89.48	179.43	12,754.03	-2,370.88	-319.24	2,367.59	0.00	0.00	0.00	
15,100.00	89.48	179.43	12,754.94	-2,470.87	-318.25	2,467.59	0.00	0.00	0.00	
15,200.00	89.48	179.43	12,755.84	-2,570.87	-317.27	2,567.58	0.00	0.00	0.00	
15,272.42	89.48	179.43	12,756.50	-2,643.28	-316.55	2,640.00	0.00	0.00	0.00	
Begin 2.00°/100' Build										
15,300.00	90.03	179.43	12,756.62	-2,670.86	-316.28	2,667.58	2.00	2.00	-0.01	
15,335.73	90.75	179.43	12,756.37	-2,706.58	-315.92	2,703.31	2.00	2.00	-0.01	
Hold 90.74° Inc										
15,400.00	90.75	179.43	12,755.54	-2,770.85	-315.28	2,767.57	0.00	0.00	0.00	
15,500.00	90.75	179.43	12,754.23	-2,870.83	-314.29	2,867.56	0.00	0.00	0.00	
15,600.00	90.75	179.43	12,752.93	-2,970.82	-313.29	2,967.56	0.00	0.00	0.00	
15,700.00	90.75	179.43	12,751.62	-3,070.81	-312.30	3,067.55	0.00	0.00	0.00	
15,800.00	90.75	179.43	12,750.32	-3,170.79	-311.30	3,167.54	0.00	0.00	0.00	
15,900.00	90.75	179.43	12,749.01	-3,270.78	-310.31	3,267.53	0.00	0.00	0.00	
16,000.00	90.75	179.43	12,747.71	-3,370.77	-309.31	3,367.52	0.00	0.00	0.00	
16,092.49	90.75	179.43	12,746.50	-3,463.24	-308.39	3,460.00	0.00	0.00	0.00	
Begin 2.00°/100' Drop										
16,100.00	90.60	179.43	12,746.41	-3,470.75	-308.32	3,467.51	2.00	-2.00	0.00	
16,147.32	89.65	179.43	12,746.31	-3,518.07	-307.84	3,514.83	2.00	-2.00	0.00	
Hold 89.65° Inc										
16,200.00	89.65	179.43	12,746.63	-3,570.75	-307.32	3,567.51	0.00	0.00	0.00	
16,300.00	89.65	179.43	12,747.24	-3,670.74	-306.33	3,667.51	0.00	0.00	0.00	
16,400.00	89.65	179.43	12,747.85	-3,770.73	-305.33	3,767.51	0.00	0.00	0.00	
16,500.00	89.65	179.43	12,748.46	-3,870.72	-304.34	3,867.51	0.00	0.00	0.00	
16,600.00	89.65	179.43	12,749.07	-3,970.72	-303.34	3,967.50	0.00	0.00	0.00	
16,700.00	89.65	179.43	12,749.68	-4,070.71	-302.35	4,067.50	0.00	0.00	0.00	
16,800.00	89.65	179.43	12,750.29	-4,170.70	-301.35	4,167.50	0.00	0.00	0.00	
16,900.00	89.65	179.43	12,750.90	-4,270.70	-300.36	4,267.50	0.00	0.00	0.00	
17,000.00	89.65	179.43	12,751.51	-4,370.69	-299.36	4,367.50	0.00	0.00	0.00	
17,100.00	89.65	179.43	12,752.12	-4,470.68	-298.37	4,467.49	0.00	0.00	0.00	
17,200.00	89.65	179.43	12,752.72	-4,570.68	-297.37	4,567.49	0.00	0.00	0.00	
17,300.00	89.65	179.43	12,753.33	-4,670.67	-296.38	4,667.49	0.00	0.00	0.00	
17,400.00	89.65	179.43	12,753.94	-4,770.66	-295.38	4,767.49	0.00	0.00	0.00	
17,500.00	89.65	179.43	12,754.55	-4,870.66	-294.39	4,867.49	0.00	0.00	0.00	
17,600.00	89.65	179.43	12,755.16	-4,970.65	-293.39	4,967.49	0.00	0.00	0.00	
17,700.00	89.65	179.43	12,755.77	-5,070.64	-292.40	5,067.48	0.00	0.00	0.00	
17,800.00	89.65	179.43	12,756.38	-5,170.64	-291.40	5,167.48	0.00	0.00	0.00	
17,900.00	89.65	179.43	12,756.99	-5,270.63	-290.41	5,267.48	0.00	0.00	0.00	
18,000.00	89.65	179.43	12,757.60	-5,370.62	-289.41	5,367.48	0.00	0.00	0.00	
18,100.00	89.65	179.43	12,758.21	-5,470.62	-288.42	5,467.48	0.00	0.00	0.00	
18,200.00	89.65	179.43	12,758.82	-5,570.61	-287.42	5,567.47	0.00	0.00	0.00	
18,300.00	89.65	179.43	12,759.43	-5,670.60	-286.43	5,667.47	0.00	0.00	0.00	
18,400.00	89.65	179.43	12,760.04	-5,770.60	-285.43	5,767.47	0.00	0.00	0.00	
18,500.00	89.65	179.43	12,760.65	-5,870.59	-284.44	5,867.47	0.00	0.00	0.00	
18,600.00	89.65	179.43	12,761.26	-5,970.58	-283.44	5,967.47	0.00	0.00	0.00	
18,700.00	89.65	179.43	12,761.87	-6,070.57	-282.45	6,067.46	0.00	0.00	0.00	
18,800.00	89.65	179.43	12,762.47	-6,170.57	-281.45	6,167.46	0.00	0.00	0.00	
18,900.00	89.65	179.43	12,763.08	-6,270.56	-280.46	6,267.46	0.00	0.00	0.00	
19,000.00	89.65	179.43	12,763.69	-6,370.55	-279.46	6,367.46	0.00	0.00	0.00	
19,100.00	89.65	179.43	12,764.30	-6,470.55	-278.47	6,467.46	0.00	0.00	0.00	
19,200.00	89.65	179.43	12,764.91	-6,570.54	-277.47	6,567.46	0.00	0.00	0.00	
19,300.00	89.65	179.43	12,765.52	-6,670.53	-276.48	6,667.45	0.00	0.00	0.00	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

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)	
19,400.00	89.65	179.43	12,766.13	-6,770.53	-275.48	6,767.45	0.00	0.00	0.00	
19,500.00	89.65	179.43	12,766.74	-6,870.52	-274.49	6,867.45	0.00	0.00	0.00	
19,600.00	89.65	179.43	12,767.35	-6,970.51	-273.49	6,967.45	0.00	0.00	0.00	
19,700.00	89.65	179.43	12,767.96	-7,070.51	-272.50	7,067.45	0.00	0.00	0.00	
19,800.00	89.65	179.43	12,768.57	-7,170.50	-271.50	7,167.44	0.00	0.00	0.00	
19,900.00	89.65	179.43	12,769.18	-7,270.49	-270.51	7,267.44	0.00	0.00	0.00	
20,000.00	89.65	179.43	12,769.79	-7,370.49	-269.51	7,367.44	0.00	0.00	0.00	
20,100.00	89.65	179.43	12,770.40	-7,470.48	-268.52	7,467.44	0.00	0.00	0.00	
20,200.00	89.65	179.43	12,771.01	-7,570.47	-267.52	7,567.44	0.00	0.00	0.00	
20,300.00	89.65	179.43	12,771.62	-7,670.47	-266.53	7,667.44	0.00	0.00	0.00	
20,400.00	89.65	179.43	12,772.23	-7,770.46	-265.53	7,767.43	0.00	0.00	0.00	
20,500.00	89.65	179.43	12,772.83	-7,870.45	-264.54	7,867.43	0.00	0.00	0.00	
20,600.00	89.65	179.43	12,773.44	-7,970.45	-263.54	7,967.43	0.00	0.00	0.00	
20,700.00	89.65	179.43	12,774.05	-8,070.44	-262.55	8,067.43	0.00	0.00	0.00	
20,800.00	89.65	179.43	12,774.66	-8,170.43	-261.55	8,167.43	0.00	0.00	0.00	
20,900.00	89.65	179.43	12,775.27	-8,270.43	-260.56	8,267.42	0.00	0.00	0.00	
21,000.00	89.65	179.43	12,775.88	-8,370.42	-259.56	8,367.42	0.00	0.00	0.00	
21,100.00	89.65	179.43	12,776.49	-8,470.41	-258.57	8,467.42	0.00	0.00	0.00	
21,101.53	89.65	179.43	12,776.50	-8,471.94	-258.55	8,468.95	0.00	0.00	0.00	
TD at 21101.53										

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	
FTPv2 - Cattleman Fed - plan misses target center by 15.62usft at 13290.27usft MD (12738.54 TVD, -661.90 N, -320.88 E) - Point	0.00	0.00	12,738.50	-659.34	-336.29	380,662.18	832,808.77	32° 2' 34.909224 N 103° 23' 33.526496 W		
3460°VS - Cattleman Fed - plan hits target center - Point	0.00	0.00	12,746.50	-3,463.24	-308.39	377,858.28	832,836.67	32° 2' 7.162184 N 103° 23' 33.486113 W		
2640°VS - Cattleman Fed - plan hits target center - Point	0.00	0.00	12,756.50	-2,643.28	-316.55	378,678.24	832,828.51	32° 2' 15.276408 N 103° 23' 33.497940 W		
BHLv3 - Cattleman Fed - plan hits target center - Rectangle (sides W100.00 H7,813.01 D0.00)	0.00	179.43	12,776.50	-8,471.94	-258.55	372,849.58	832,886.51	32° 1' 17.596639 N 103° 23' 33.413825 W		
LTPv2 - Cattleman Fed - plan misses target center by 0.55usft at 21011.54usft MD (12775.95 TVD, -8381.95 N, -259.45 E) - Point	0.00	0.00	12,776.50	-8,381.95	-259.42	372,939.57	832,885.64	32° 1' 18.487169 N 103° 23' 33.414830 W		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
20,830.45	12,774.85	20" Casing	20	24	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 432H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3255.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3255.50usft (H&P 474)
Site:	Cattleman Fed Com	North Reference:	Grid
Well:	432H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-22-21		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,115.50	1,115.50	Rustler		0.00	179.43	
1,611.52	1,611.50	Salado		0.00	179.43	
5,090.46	5,087.50	Base/Salt		0.00	179.43	
5,417.46	5,414.50	Lamar		0.00	179.43	
5,449.46	5,446.50	Bell Canyon		0.00	179.43	
6,386.46	6,383.50	Cherry Canyon		0.00	179.43	
7,925.46	7,922.50	Brushy Canyon		0.00	179.43	
9,133.46	9,130.50	Lower Brushy Canyon		0.00	179.43	
9,333.46	9,330.50	Bone Spring Lime		0.00	179.43	
9,385.46	9,382.50	Leonard		0.00	179.43	
10,553.46	10,550.50	Bone Spring 1 Sand		0.00	179.43	
11,033.46	11,030.50	Bone Spring 2 Carbonate		0.00	179.43	
11,072.46	11,069.50	Bone Spring 2 Sand		0.00	179.43	
11,588.46	11,585.50	Bone Spring 3 Carbonate		0.00	179.43	
12,206.46	12,203.50	Bone Spring 3 Sand		0.00	179.43	
12,508.31	12,494.50	Bone Spring 3 Sand - Lower FS		0.00	179.43	
12,601.48	12,570.50	Wolfcamp		0.00	179.43	
12,620.30	12,584.50	Wolfcamp X Sand		0.00	179.43	
12,712.70	12,645.50	Wolfcamp Y Sand		0.00	179.43	
12,789.96	12,685.50	Wolfcamp A		0.00	179.43	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	KOP, Begin 1.50°/100' Build	
1,700.03	1,699.94	2.69	-4.49	Hold 3.00° Inc at 300.96° Azm	
3,727.94	3,725.06	57.31	-95.51	Begin 1.50°/100' Drop	
3,927.96	3,925.00	60.00	-100.00	Begin Vertical Hold	
12,261.46	12,258.50	60.00	-100.00	KOP2, Begin 12.00°/100' Build	
13,007.13	12,735.95	-387.00	-255.05	LP, Hold 89.48° Inc, Begin 2.00°/100' Turn	
13,499.52	12,740.45	-870.54	-334.08	Hold 179.43° Azm	
15,272.42	12,756.50	-2,643.28	-316.55	Begin 2.00°/100' Build	
15,335.73	12,756.37	-2,706.58	-315.92	Hold 90.74° Inc	
16,092.49	12,746.50	-3,463.24	-308.39	Begin 2.00°/100' Drop	
16,147.32	12,746.31	-3,518.07	-307.84	Hold 89.65° Inc	
21,101.53	12,776.50	-8,471.94	-258.55	TD at 21101.53	

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1. Geologic Formations

TVD of target	12,776' EOL	Pilot hole depth	NA
MD at TD:	21,101'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1116	Water	
Top of Salt	1612	Salt	
Base of Salt	5088	Salt	
Lamar	5415	Salt Water	
Delaware	5447	Salt Water	
Bone Spring Lime	9331	Oil/Gas	
1st Bone Spring	10551	Oil/Gas	
2nd Bone Spring	11070	Oil/Gas	
3rd Bone Spring	12204	Oil/Gas	
Wolfcamp	12571	Oil/Gas	
Wolfcamp X Sand	12585	Oil/Gas	
Wolfcamp Y Sand	12646	Oil/Gas	
Wolfcamp A	12686	Target Oil/Gas	
Wolfcamp B	12989	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1145	10.75"	45.5	J55	BTC	3.99	0.80	13.72
9.875"	0	12150	7.625"	29.7	HCL80	BTC	1.16	1.05	2.01
6.75"	0	11950	5.5"	20	P110	BTC	1.85	1.93	3.17
6.75"	11950	21,101	5"	18	P110	BTC	1.85	1.93	3.17
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse.
 Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int	900	10.3	3.6	22.95	16	TXI Lightweight Blend
	250	15.0	1.27	5.72	8	Tail: Class H
Prod	350	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	950	14.2	1.3	6.2	19	Tail: 50:50:2 Class H Blend

Contingency remediation cement plan for intermediate casing if cmt is not circulated to surface:1st Stage - Bradenhead Stage Notes

Operator will pump 1000+ sx of Class C and allow cement to fall into place. Operator will not put any fluid on top of the cement after the fall. This will leave annuls filled with air to TOC. We will WOC +/- 2 hrs (or when surface samples are firm enough) to ensure cement is set up. TOC will be above the Lamar allowing for the fill up stage.

2nd Stage - Fill Up Stage Notes

After WOC to allow the Bradenhead Stage to set up, operator will proceed with the Fill Up Stage. Since there is only air in the annulus (no fluid will be placed in annulus after bradenhead stage), we will pump cement with opposite valve set to allow air to displace out. Fill up cement will be mixed and pumped until returns are taken to surface to complete the fill up. This will confirm a solid column of cement in the annulus all the way to surface completing the top out job. Operator will WOC after cement returns have been taken to surface.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,650'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	3000 psi
			Blind Ram		3M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			VBR Ram	x	
			VBR Ram	x	
			Other*		

See attached 5M Annular Variance Well Control plan for Titus Oil & Gas Production, LLC.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Nova N-Gauge	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	10.8 - 11.8	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7840 psi at 12776' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
N	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	Multibowl Schematic

District I
1625 N. French Dr., Hobbs, NM 88240
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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 79011

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 79011
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	2/7/2022