

Well Name: EL CAMPEON FED COM	Well Location: T26S / R35E / SEC 20 / TR P / 32.023042 / -103.3829112	County or Parish/State: LEA / NM
Well Number: 514H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM126974	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548140	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/05/2021	Time Sundry Submitted: 03:24
Date proposed operation will begin: 08/24/2021	

Procedure Description: Depth change from 13,078' TVD and 20,583' MD to 13,023' TVD and 21,056' MD; wellbore/TD change from 530' FEL to 745' FEL; addition of intermediate contingency remediation cement plan; BOP change from 3M/10M to 5M/10M; change to multi-bowl wellhead; supporting documentation for these changes attached. Attachments: Updated C-102 Updated Drilling Plan Updated Directional Plan Updated Directional AC Report Multi-Bowl Wellhead Schematic Rig-accurate Choke Hose Certs 5M BOP Schematic

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- 5M__H_P_614__BOP__CHOKE__FLEX_HOSE_APD_INFORMATION_20210805152405.pdf
- Choke_Hose_SN_64409_20210805152344.pdf
- EL_CAMPEON_FED_COM_514H_C102_REV1_20210805152344.pdf
- El_Campeon_Fed_Com_514H__Plan_4_08_05_21_AC_Report_20210805152344.pdf
- El_Campeon_Fed_Com_514H__Plan_4_08_05_21_20210805152344.pdf
- El_Campeon_Fed_Com_514H__APD_Temp_20210805152344.pdf
- 13_5_8_10k_Slim_Bore_Conductor_Cutoff__49in_Nabor_Rig_20210805152344.pdf

Received by OCD: 8/24/2021 9:08:44 AM

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US Well Number: 3002548140	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

Conditions of Approval

Specialist Review

El_Campeon_Fed_Com_514H_COA_20210818031603.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: AUG 05, 2021 03:24 PM

Name: TITUS OIL AND GAS PRODUCTION LLC

Title: Regulatory Manager

Street Address: 420 Throckmorton Street, Suite 1150

City: Fort WorthState: 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: 08/18/2021

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 30-025-48140	2 Pool Code 96776	3 Pool Name JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code 328509	5 Property Name EL CAMPEON FED COM	6 Well Number 514H
7 OGRID No. 372527	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation 3172'

¹⁰ Surface Location

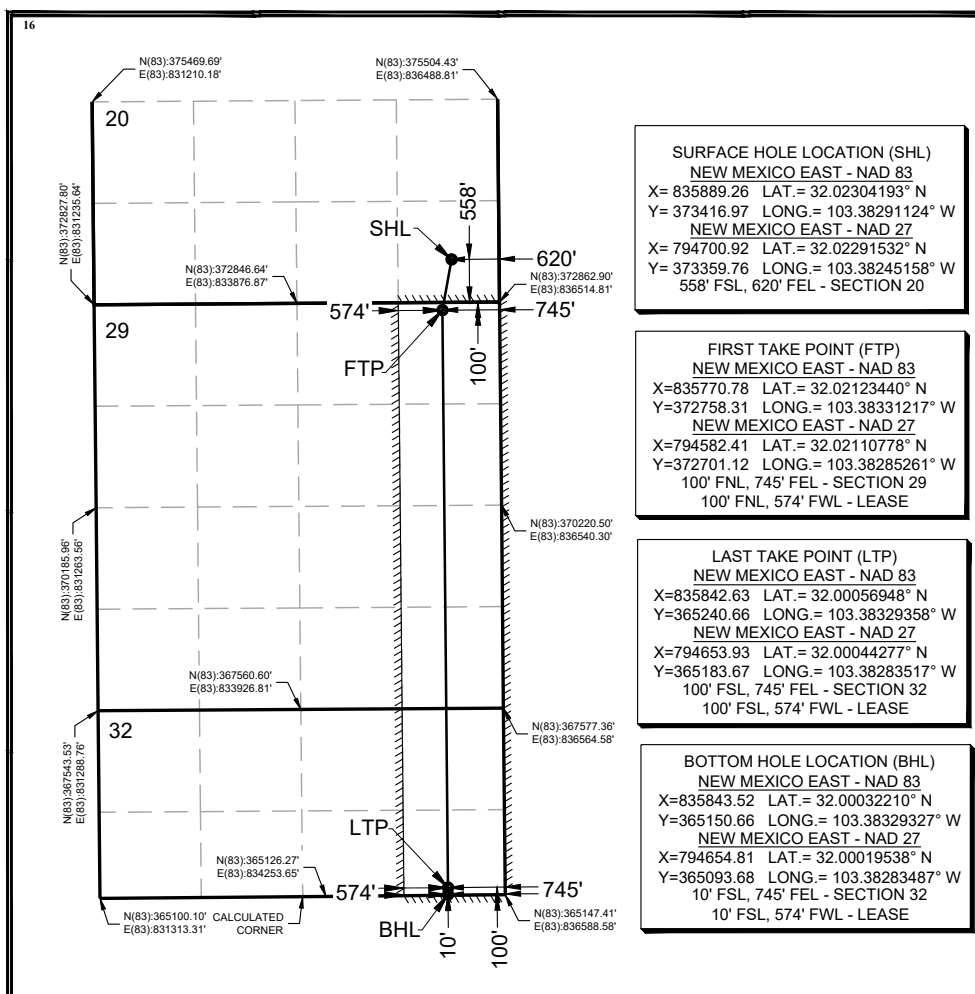
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	26-S	35-E		558'	SOUTH	620'	EAST	LEA

¹¹ 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
1	32	26-S	35-E		10'	SOUTH	745'	EAST	LEA

12 Dedicated Acres 240	13 Joint or Infill Y	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.



Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H

1. Geologic Formations

TVD of target	13,023' EOL	Pilot hole depth	NA
MD at TD:	21,056'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1079	Water	
Top of Salt	1536	Salt	
Base of Salt	5028	Salt	
Lamar	5337	Salt Water	
Delaware	5372	Salt Water	
Bone Spring Lime	9227	Oil/Gas	
1st Bone Spring	10514	Oil/Gas	
2nd Bone Spring	11003	Oil/Gas	
3rd Bone Spring	12125	Oil/Gas	
Wolfcamp	12478	Oil/Gas	
Wolfcamp X Sand	12512	Oil/Gas	
Wolfcamp Y Sand	12571	Oil/Gas	
Wolfcamp A	12603	Oil/Gas	
Wolfcamp B	12900	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body
	From	To							
13.5"	0	1105	10.75"	45.5	J55	BTC	4.13	0.80	14.22
9.875"	0	12100	7.625"	29.7	HCL80	BTC	1.17	1.01	2.02
6.75"	0	11900	5.5"	20	P110	BTC	1.79	1.85	3.11
6.75"	11900	21,056	5"	18	P110	BTC	1.79	1.85	3.11
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.

Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H

	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?	

Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H

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	11,600'	35% OH in Lateral (KOP to EOL)

Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H

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"	5M	Annular	x	5000 psi
			Blind Ram		5M
			Pipe Ram		
			Double Ram		
			Other*		
6-3/4"	13-5/8"	10M	Annular	x	5M
			Blind Ram	x	10M
			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.

Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H

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	11 - 12	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	

Titus Oil & Gas Production, LLC - El Campeon Fed Com 514H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8130 psi at 13023' TVD
Abnormal Temperature	NO 185 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.

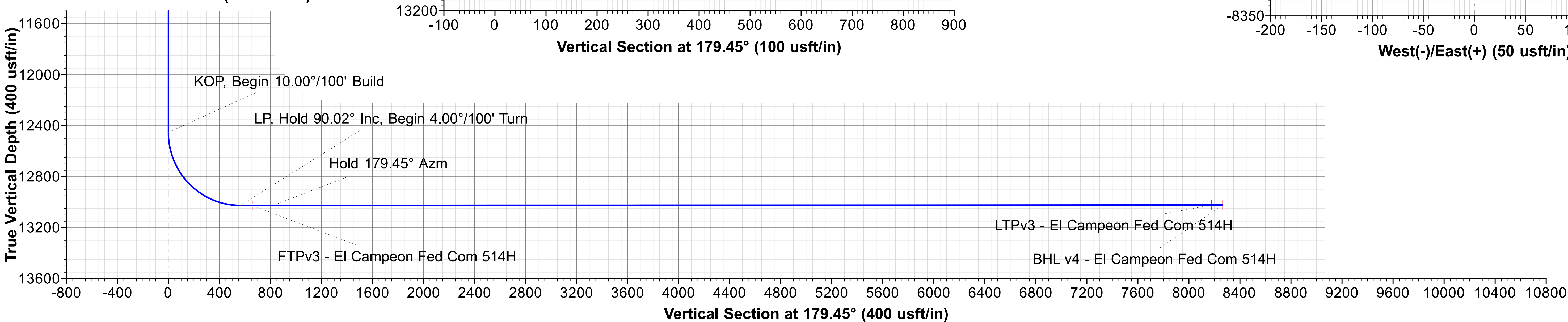
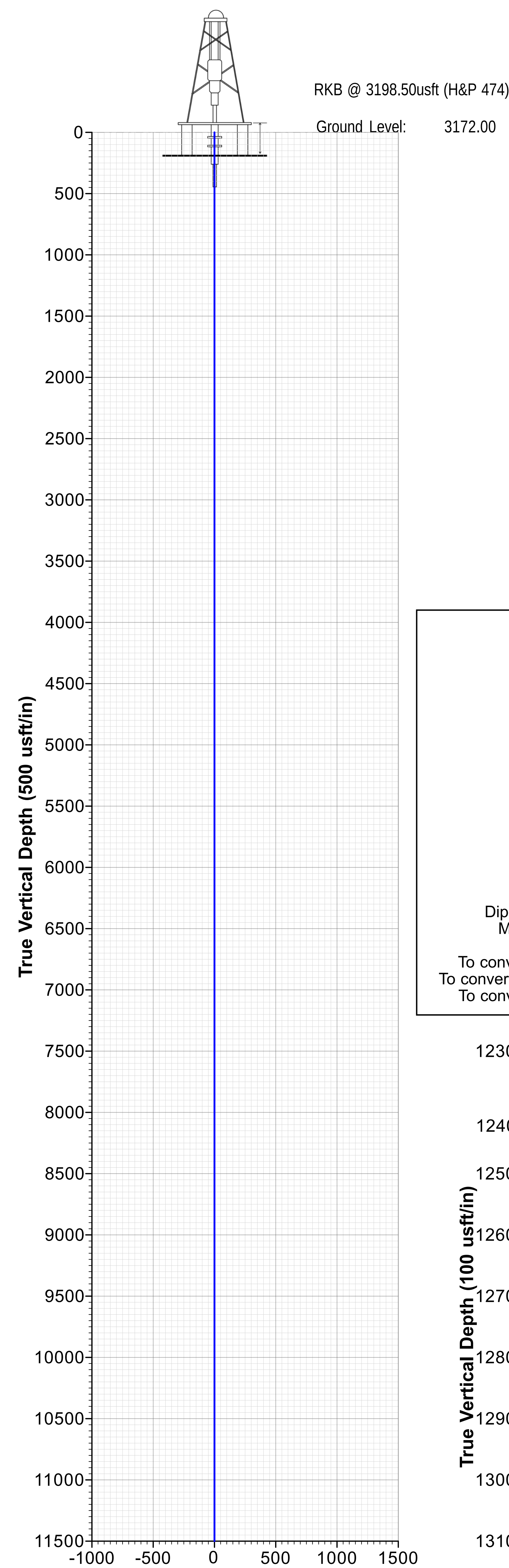
Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S 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



WELL DETAILS							
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	
0.00	0.00	373416.97	3172.00	835889.26	32° 1' 22.950948 N	103° 22' 58.480464 W	

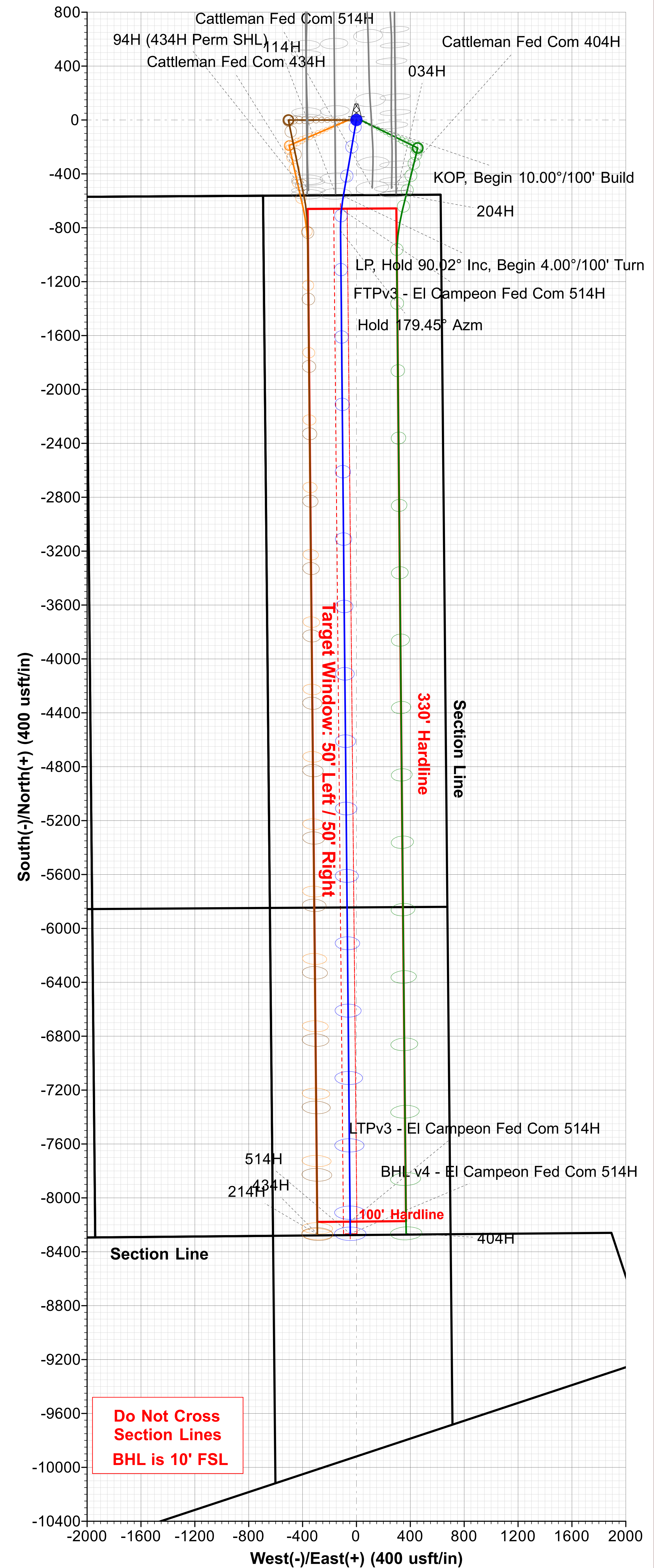
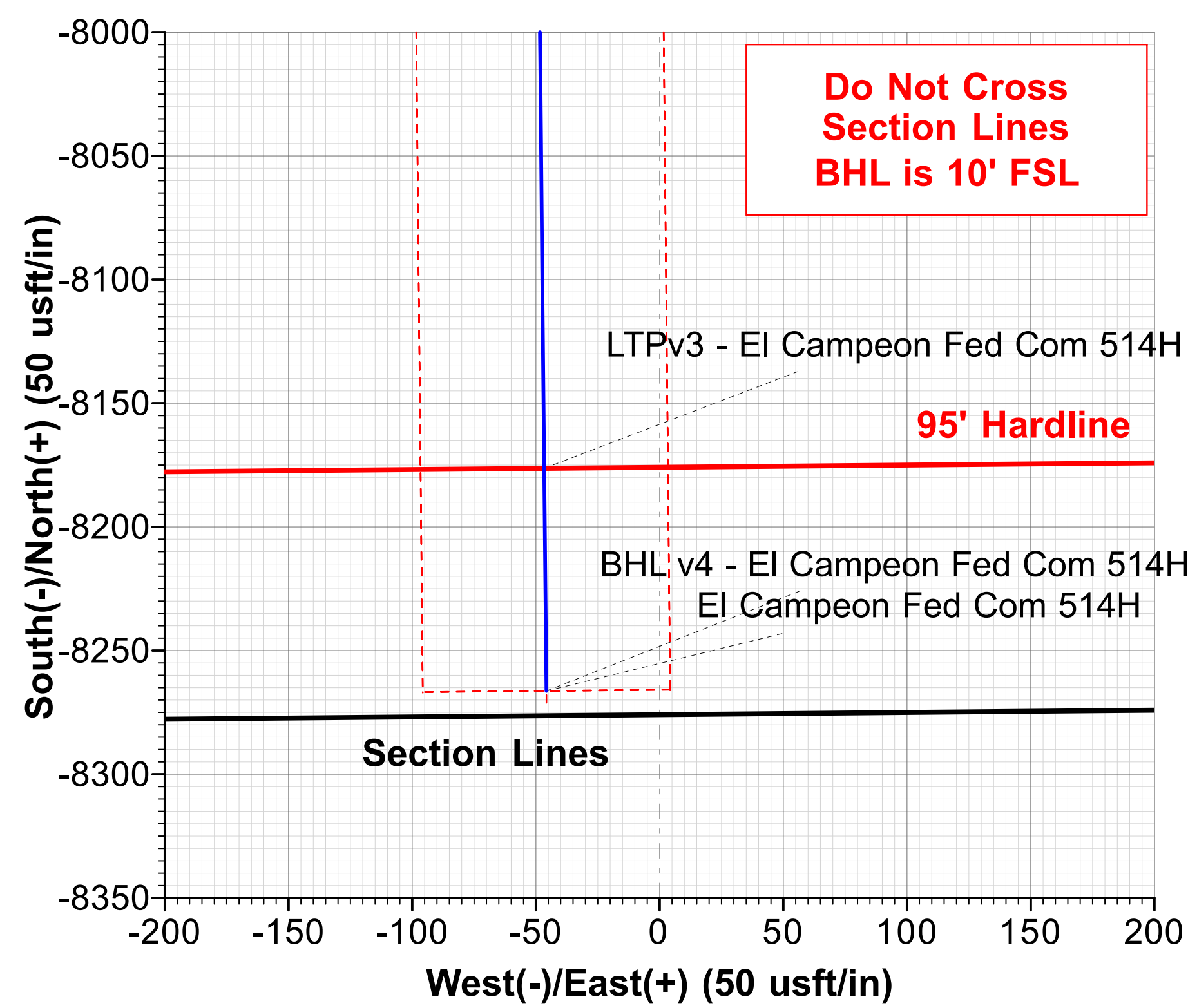
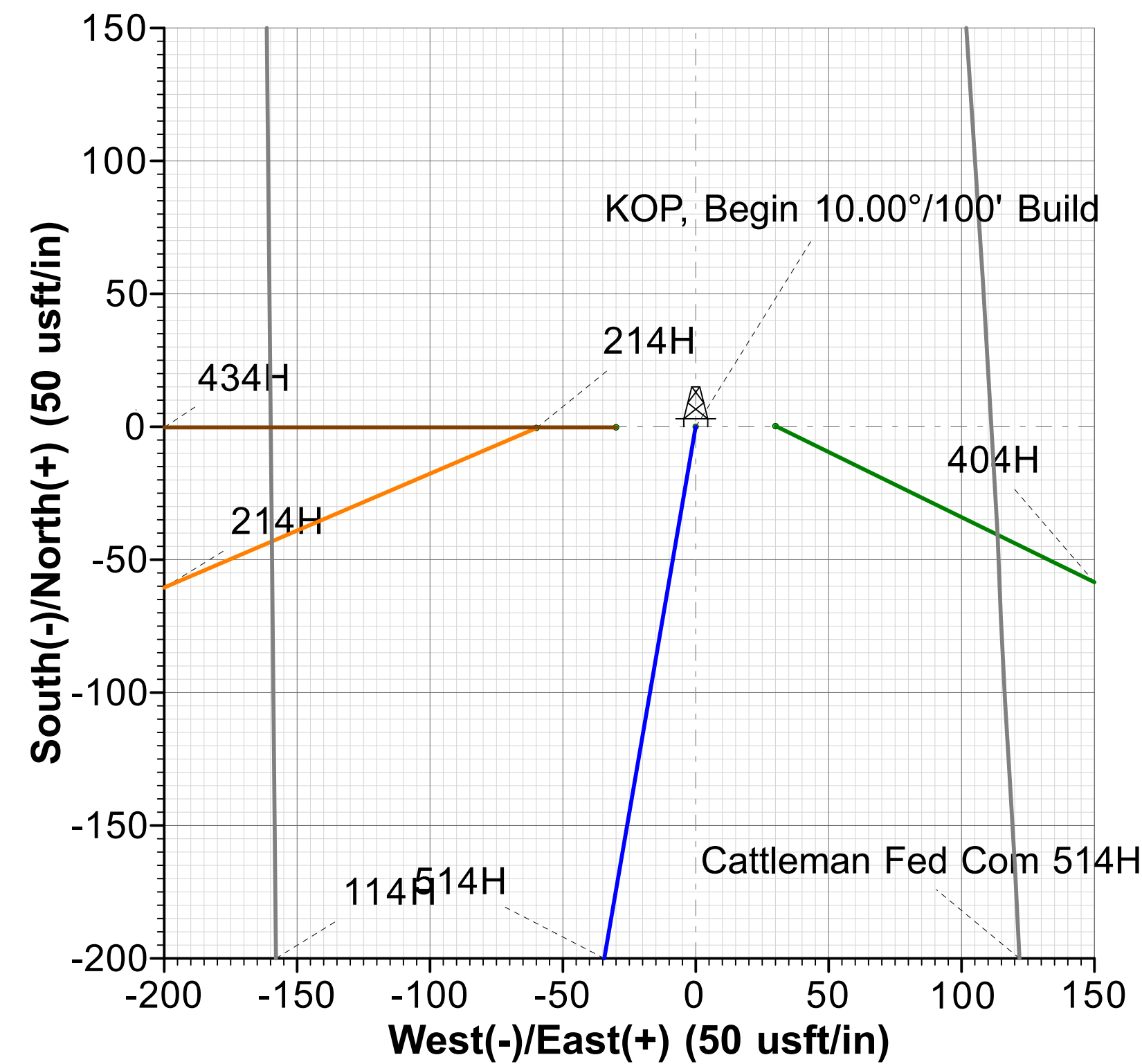
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL v4 - El Campeon Fed Com 514H	13023.00	-8266.31	-45.74	365150.66	835843.52	32° 0' 1.159527 N	103° 22' 59.855714 W
LTPv3 - El Campeon Fed Com 514H	13023.00	-8176.31	-46.63	365240.66	835842.63	32° 0' 2.050159 N	103° 22' 59.856865 W
FTPv3 - El Campeon Fed Com 514H	13026.00	-658.66	-118.48	372758.31	835770.78	32° 1' 16.443807 N	103° 22' 59.923857 W

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	12453.06	0.00	0.00	12453.06	0.00	0.00	0.00	0.00	0.00	0.00	
3	13353.26	90.02	189.75	13026.02	-564.88	-97.06	10.00	189.75	563.92		KOP, Begin 10.00°/100' Build
4	13610.85	90.02	179.45	13025.92	-821.30	-117.69	4.00	-89.98	820.13		LP, Hold 90.02° Inc, Begin 4.00°/100' Turn
5	21056.21	90.02	179.45	13023.00	-8266.31	-45.74	0.00	0.00	8265.49	BHL v4 - El Campeon Fed Com 514H	Hold 179.45° Azm
											TD at 21056.21

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well 514H, Grid North
Latitude: 32° 1' 22.950948 N
Longitude: 103° 22' 58.480464 W
Grid East: 835889.26
Grid North: 373416.97
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 29-Feb-20
Magnetic Declination: 6.49°
Dip Angle from Horizontal: 59.64°
Magnetic Field Strength: 47574.26609996nT
To convert a Magnetic Direction to a Grid Direction, Add 5.99°
To convert a Magnetic Direction to a True Direction, Add 6.49° East
To convert a True Direction to a Grid Direction, Subtract 0.50°

LEGEND

- 214H, OH, Plan 1 08-05-21 V0
- 114H, OH, Plan 3 (Shift Lat 210'E) V0
- 404H, OH, Plan 4 08-05-21 V0
- Cattleman Fed Com 404H, OH / 67732, Surveys (H&P 474) V0
- 204H, OH, Plan 3 V0
- 434H, OH, Plan 4 08-05-21 V0
- Cattleman Fed Com 434H, OH / 67733, Surveys (H&P 474) V0
- Cattleman Fed Com 514H, OH / 67734, Surveys (H&P 474) V0
- 034H, OH, Plan 3 V0
- 94H (434H Perm SHL), OH, Plan 3 V0
- Plan 4 08-05-21





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com

514H

OH

Plan: Plan 4 08-05-21

Standard Planning Report

05 August, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 514H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 08-05-21		

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	El Campeon Fed Com					
Site Position:		Northing:	373,195.63 usft	Latitude:	32° 1' 20.984376 N	
From:	Map	Easting:	833,309.19 usft	Longitude:	103° 23' 28.469580 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50

Well	514H					
Well Position	+N/-S	221.34 usft	Northing:	373,416.97 usft	Latitude:	32° 1' 22.950948 N
	+E/-W	2,580.07 usft	Easting:	835,889.26 usft	Longitude:	103° 22' 58.480464 W
Position Uncertainty	1.00 usft		Wellhead Elevation:	Ground Level: 3,172.00 usft		

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2/29/2020	6.49	59.64	47,574.26609996

Design	Plan 4 08-05-21			
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	179.45

Plan Survey Tool Program	Date	8/5/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,055.68 Plan 4 08-05-21 (OH)	MWD+HDGM+MS	
			OWSG Rev.2 MWD + HDGM +	

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	
12,453.06	0.00	0.00	12,453.06	0.00	0.00	0.00	0.00	0.00	0.00	
13,353.26	90.02	189.75	13,026.02	-564.88	-97.06	10.00	10.00	0.00	189.75	
13,610.85	90.02	179.45	13,025.92	-821.30	-117.69	4.00	0.00	-4.00	-89.98	
21,056.21	90.02	179.45	13,023.00	-8,266.31	-45.74	0.00	0.00	0.00	0.00	BHL v4 - El Campeon



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 514H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 08-05-21		

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
12,453.06	0.00	0.00	12,453.06	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 10.00°/100' Build									
12,500.00	4.69	189.75	12,499.95	-1.89	-0.33	1.89	10.00	10.00	0.00
12,600.00	14.69	189.75	12,598.39	-18.47	-3.17	18.44	10.00	10.00	0.00
12,700.00	24.69	189.75	12,692.43	-51.64	-8.87	51.55	10.00	10.00	0.00
12,800.00	34.69	189.75	12,779.18	-100.40	-17.25	100.23	10.00	10.00	0.00
12,900.00	44.69	189.75	12,856.03	-163.26	-28.05	162.99	10.00	10.00	0.00
13,000.00	54.69	189.75	12,920.64	-238.33	-40.95	237.92	10.00	10.00	0.00
13,100.00	64.69	189.75	12,971.04	-323.31	-55.55	322.76	10.00	10.00	0.00
13,200.00	74.69	189.75	13,005.70	-415.62	-71.42	414.92	10.00	10.00	0.00
13,300.00	84.69	189.75	13,023.56	-512.46	-88.06	511.59	10.00	10.00	0.00
13,353.26	90.02	189.75	13,026.02	-564.88	-97.06	563.92	10.00	10.00	0.00
LP, Hold 90.02° Inc, Begin 4.00°/100' Turn									
13,400.00	90.02	187.88	13,026.00	-611.06	-104.23	610.04	4.00	0.00	-4.00
13,500.00	90.02	183.88	13,025.96	-710.52	-114.47	709.39	4.00	0.00	-4.00
13,600.00	90.02	179.88	13,025.93	-810.44	-117.75	809.28	4.00	0.00	-4.00
13,610.85	90.02	179.45	13,025.92	-821.30	-117.69	820.13	4.00	0.00	-4.00
Hold 179.45° Azm									
13,700.00	90.02	179.45	13,025.89	-910.44	-116.83	909.28	0.00	0.00	0.00
13,800.00	90.02	179.45	13,025.85	-1,010.44	-115.86	1,009.28	0.00	0.00	0.00
13,900.00	90.02	179.45	13,025.81	-1,110.43	-114.89	1,109.28	0.00	0.00	0.00
14,000.00	90.02	179.45	13,025.77	-1,210.43	-113.93	1,209.28	0.00	0.00	0.00
14,100.00	90.02	179.45	13,025.73	-1,310.42	-112.96	1,309.28	0.00	0.00	0.00
14,200.00	90.02	179.45	13,025.69	-1,410.42	-111.99	1,409.28	0.00	0.00	0.00
14,300.00	90.02	179.45	13,025.65	-1,510.41	-111.03	1,509.28	0.00	0.00	0.00
14,400.00	90.02	179.45	13,025.61	-1,610.41	-110.06	1,609.28	0.00	0.00	0.00
14,500.00	90.02	179.45	13,025.57	-1,710.40	-109.09	1,709.28	0.00	0.00	0.00
14,600.00	90.02	179.45	13,025.53	-1,810.40	-108.13	1,809.28	0.00	0.00	0.00
14,700.00	90.02	179.45	13,025.49	-1,910.39	-107.16	1,909.28	0.00	0.00	0.00
14,800.00	90.02	179.45	13,025.46	-2,010.39	-106.20	2,009.28	0.00	0.00	0.00
14,900.00	90.02	179.45	13,025.42	-2,110.38	-105.23	2,109.28	0.00	0.00	0.00
15,000.00	90.02	179.45	13,025.38	-2,210.38	-104.26	2,209.28	0.00	0.00	0.00
15,100.00	90.02	179.45	13,025.34	-2,310.37	-103.30	2,309.28	0.00	0.00	0.00
15,200.00	90.02	179.45	13,025.30	-2,410.37	-102.33	2,409.28	0.00	0.00	0.00
15,300.00	90.02	179.45	13,025.26	-2,510.37	-101.36	2,509.28	0.00	0.00	0.00
15,400.00	90.02	179.45	13,025.22	-2,610.36	-100.40	2,609.28	0.00	0.00	0.00
15,500.00	90.02	179.45	13,025.18	-2,710.36	-99.43	2,709.28	0.00	0.00	0.00
15,600.00	90.02	179.45	13,025.14	-2,810.35	-98.47	2,809.28	0.00	0.00	0.00
15,700.00	90.02	179.45	13,025.10	-2,910.35	-97.50	2,909.28	0.00	0.00	0.00
15,800.00	90.02	179.45	13,025.06	-3,010.34	-96.53	3,009.28	0.00	0.00	0.00
15,900.00	90.02	179.45	13,025.02	-3,110.34	-95.57	3,109.28	0.00	0.00	0.00
16,000.00	90.02	179.45	13,024.98	-3,210.33	-94.60	3,209.28	0.00	0.00	0.00
16,100.00	90.02	179.45	13,024.95	-3,310.33	-93.63	3,309.28	0.00	0.00	0.00
16,200.00	90.02	179.45	13,024.91	-3,410.32	-92.67	3,409.28	0.00	0.00	0.00
16,300.00	90.02	179.45	13,024.87	-3,510.32	-91.70	3,509.28	0.00	0.00	0.00
16,400.00	90.02	179.45	13,024.83	-3,610.31	-90.73	3,609.28	0.00	0.00	0.00
16,500.00	90.02	179.45	13,024.79	-3,710.31	-89.77	3,709.28	0.00	0.00	0.00
16,600.00	90.02	179.45	13,024.75	-3,810.30	-88.80	3,809.28	0.00	0.00	0.00
16,700.00	90.02	179.45	13,024.71	-3,910.30	-87.84	3,909.28	0.00	0.00	0.00
16,800.00	90.02	179.45	13,024.67	-4,010.30	-86.87	4,009.28	0.00	0.00	0.00
16,900.00	90.02	179.45	13,024.63	-4,110.29	-85.90	4,109.28	0.00	0.00	0.00
17,000.00	90.02	179.45	13,024.59	-4,210.29	-84.94	4,209.28	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 514H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 08-05-21		

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)
17,100.00	90.02	179.45	13,024.55	-4,310.28	-83.97	4,309.28	0.00	0.00	0.00
17,200.00	90.02	179.45	13,024.51	-4,410.28	-83.00	4,409.28	0.00	0.00	0.00
17,300.00	90.02	179.45	13,024.47	-4,510.27	-82.04	4,509.28	0.00	0.00	0.00
17,400.00	90.02	179.45	13,024.44	-4,610.27	-81.07	4,609.28	0.00	0.00	0.00
17,500.00	90.02	179.45	13,024.40	-4,710.26	-80.11	4,709.28	0.00	0.00	0.00
17,600.00	90.02	179.45	13,024.36	-4,810.26	-79.14	4,809.28	0.00	0.00	0.00
17,700.00	90.02	179.45	13,024.32	-4,910.25	-78.17	4,909.28	0.00	0.00	0.00
17,800.00	90.02	179.45	13,024.28	-5,010.25	-77.21	5,009.28	0.00	0.00	0.00
17,900.00	90.02	179.45	13,024.24	-5,110.24	-76.24	5,109.28	0.00	0.00	0.00
18,000.00	90.02	179.45	13,024.20	-5,210.24	-75.27	5,209.28	0.00	0.00	0.00
18,100.00	90.02	179.45	13,024.16	-5,310.23	-74.31	5,309.28	0.00	0.00	0.00
18,200.00	90.02	179.45	13,024.12	-5,410.23	-73.34	5,409.28	0.00	0.00	0.00
18,300.00	90.02	179.45	13,024.08	-5,510.23	-72.38	5,509.28	0.00	0.00	0.00
18,400.00	90.02	179.45	13,024.04	-5,610.22	-71.41	5,609.28	0.00	0.00	0.00
18,500.00	90.02	179.45	13,024.00	-5,710.22	-70.44	5,709.28	0.00	0.00	0.00
18,600.00	90.02	179.45	13,023.96	-5,810.21	-69.48	5,809.28	0.00	0.00	0.00
18,700.00	90.02	179.45	13,023.93	-5,910.21	-68.51	5,909.28	0.00	0.00	0.00
18,800.00	90.02	179.45	13,023.89	-6,010.20	-67.54	6,009.28	0.00	0.00	0.00
18,900.00	90.02	179.45	13,023.85	-6,110.20	-66.58	6,109.28	0.00	0.00	0.00
19,000.00	90.02	179.45	13,023.81	-6,210.19	-65.61	6,209.28	0.00	0.00	0.00
19,100.00	90.02	179.45	13,023.77	-6,310.19	-64.64	6,309.28	0.00	0.00	0.00
19,200.00	90.02	179.45	13,023.73	-6,410.18	-63.68	6,409.28	0.00	0.00	0.00
19,300.00	90.02	179.45	13,023.69	-6,510.18	-62.71	6,509.28	0.00	0.00	0.00
19,400.00	90.02	179.45	13,023.65	-6,610.17	-61.75	6,609.28	0.00	0.00	0.00
19,500.00	90.02	179.45	13,023.61	-6,710.17	-60.78	6,709.28	0.00	0.00	0.00
19,600.00	90.02	179.45	13,023.57	-6,810.16	-59.81	6,809.28	0.00	0.00	0.00
19,700.00	90.02	179.45	13,023.53	-6,910.16	-58.85	6,909.28	0.00	0.00	0.00
19,800.00	90.02	179.45	13,023.49	-7,010.15	-57.88	7,009.28	0.00	0.00	0.00
19,900.00	90.02	179.45	13,023.45	-7,110.15	-56.91	7,109.28	0.00	0.00	0.00
20,000.00	90.02	179.45	13,023.41	-7,210.15	-55.95	7,209.28	0.00	0.00	0.00
20,100.00	90.02	179.45	13,023.38	-7,310.14	-54.98	7,309.28	0.00	0.00	0.00
20,200.00	90.02	179.45	13,023.34	-7,410.14	-54.02	7,409.28	0.00	0.00	0.00
20,300.00	90.02	179.45	13,023.30	-7,510.13	-53.05	7,509.28	0.00	0.00	0.00
20,400.00	90.02	179.45	13,023.26	-7,610.13	-52.08	7,609.28	0.00	0.00	0.00
20,500.00	90.02	179.45	13,023.22	-7,710.12	-51.12	7,709.28	0.00	0.00	0.00
20,600.00	90.02	179.45	13,023.18	-7,810.12	-50.15	7,809.28	0.00	0.00	0.00
20,700.00	90.02	179.45	13,023.14	-7,910.11	-49.18	7,909.28	0.00	0.00	0.00
20,800.00	90.02	179.45	13,023.10	-8,010.11	-48.22	8,009.28	0.00	0.00	0.00
20,900.00	90.02	179.45	13,023.06	-8,110.10	-47.25	8,109.28	0.00	0.00	0.00
21,000.00	90.02	179.45	13,023.02	-8,210.10	-46.29	8,209.28	0.00	0.00	0.00
21,056.21	90.02	179.45	13,023.00	-8,266.31	-45.74	8,265.49	0.00	0.00	0.00
TD at 21056.21									



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 514H
Company:	Titus Oil & Gas Production, LLC	TVD Reference:	RKB @ 3198.50usft (H&P 474)
Project:	Lea County, NM - (NAD83 NME)	MD Reference:	RKB @ 3198.50usft (H&P 474)
Site:	El Campeon Fed Com	North Reference:	Grid
Well:	514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 4 08-05-21		

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)		
LTPv3 - El Campeon Fe	0.00	0.00	13,023.00	-8,176.31	-46.63	365,240.66	835,842.63	32° 0' 2.050159 N 103° 22' 59.856865 W	
- plan misses target center by 0.04usft at 20966.21usft MD (13023.04 TVD, -8176.31 N, -46.61 E)									
- Point									
BHL v4 - El Campeon Fe	-0.02	179.45	13,023.00	-8,266.31	-45.74	365,150.66	835,843.52	32° 0' 1.159527 N 103° 22' 59.855714 W	
- plan hits target center									
- Rectangle (sides W100.00 H7,608.00 D0.00)									
FTPv3 - El Campeon Fe	0.00	0.00	13,026.00	-658.66	-118.48	372,758.31	835,770.78	32° 1' 16.443807 N 103° 22' 59.923857 W	
- plan misses target center by 8.43usft at 13448.82usft MD (13025.98 TVD, -659.52 N, -110.09 E)									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	20,965.69	13,023.04	20" Casing	20	24

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
12,453.06	12,453.06	0.00	0.00	KOP, Begin 10.00°/100' Build
13,353.26	13,026.02	-564.88	-97.06	LP, Hold 90.02° Inc, Begin 4.00°/100' Turn
13,610.85	13,025.92	-821.30	-117.69	Hold 179.45° Azm
21,056.21	13,023.00	-8,266.31	-45.74	TD at 21056.21

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 44010

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 44010
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/1/2021