

Well Name: EL CAMPEON FED COM	Well Location: T26S / R35E / SEC 20 / TR P / 32.0224209 / -103.3828133	County or Parish/State: LEA / NM
Well Number: 034H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM126974	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548108	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: 10:45
Date proposed operation will begin: 08/24/2021	

Procedure Description: Well name change from El Campeon Fed Com 034H to El Campeon Fed Com 214H; SHL move from 332' FSL & 590' FEL to 558' FSL & 680' FEL (remains on same multi-well pad); target change from Brushy Canyon (Delaware) formation to 2nd Bone Spring Sand; BHL change from 10' FSL & 330' FEL to 10' FSL & 990' FEL; depth change from 9,164' TVD and 17,275' MD to 10,948' TVD and 18,842' MD; BOP change from 2M/3M to 2M/5M; change to multi-bowl wellhead; attachments included to reflect changes. Attachments: Updated C-102 Updated APD Template Updated Directional Plan Updated Directional AC Report Updated H2S Contingency Plan Rig-accurate Choke Hose Schematic Multi-bowl Wellhead Schematic 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_20210805104413.pdf
- 13_5_8_5k_Big_Bore_Conductor_Cutoff___49in_Nabor_Rig_20210805104346.pdf
- Choke_Hose_SN_64409_20210805104322.pdf
- H2S_Contingency_El_Campeon_Fed_Com_034H_20210805104315.pdf
- El_Campeon_Fed_Com_214H___Plan_1_08_05_21_20210805104305.pdf
- El_Campeon_Fed_Com_214H___Plan_1_08_05_21_AC_Report_20210805104305.pdf
- El_Campeon_Fed_Com_214H___APD_Template_20210805104248.pdf

Well Name: EL CAMPEON FED COM	Well Location: T26S / R35E / SEC 20 / TR P / 32.0224209 / -103.3828133	County or Parish/State: LEA / NM
Well Number: 034H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM126974	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548108	Well Status: Approved Application for Permit to Drill	Operator: TITUS OIL AND GAS PRODUCTION LLC

C_102_EL_CAMPEON_FED_COM_214H_SIGNED_20210805104240.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 10:44 AM
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: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/16/2021
Signature: Chris Walls	

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-48108	2 Pool Code 96672	3 Pool Name WC-025 G-08 S263412K; Bone Springs
4 Property Code 328509	5 Property Name EL CAMPEON FED COM	6 Well Number 214H
7 OGRID No. 373986	8 Operator Name TITUS OIL & GAS PRODUCTION LLC	9 Elevation

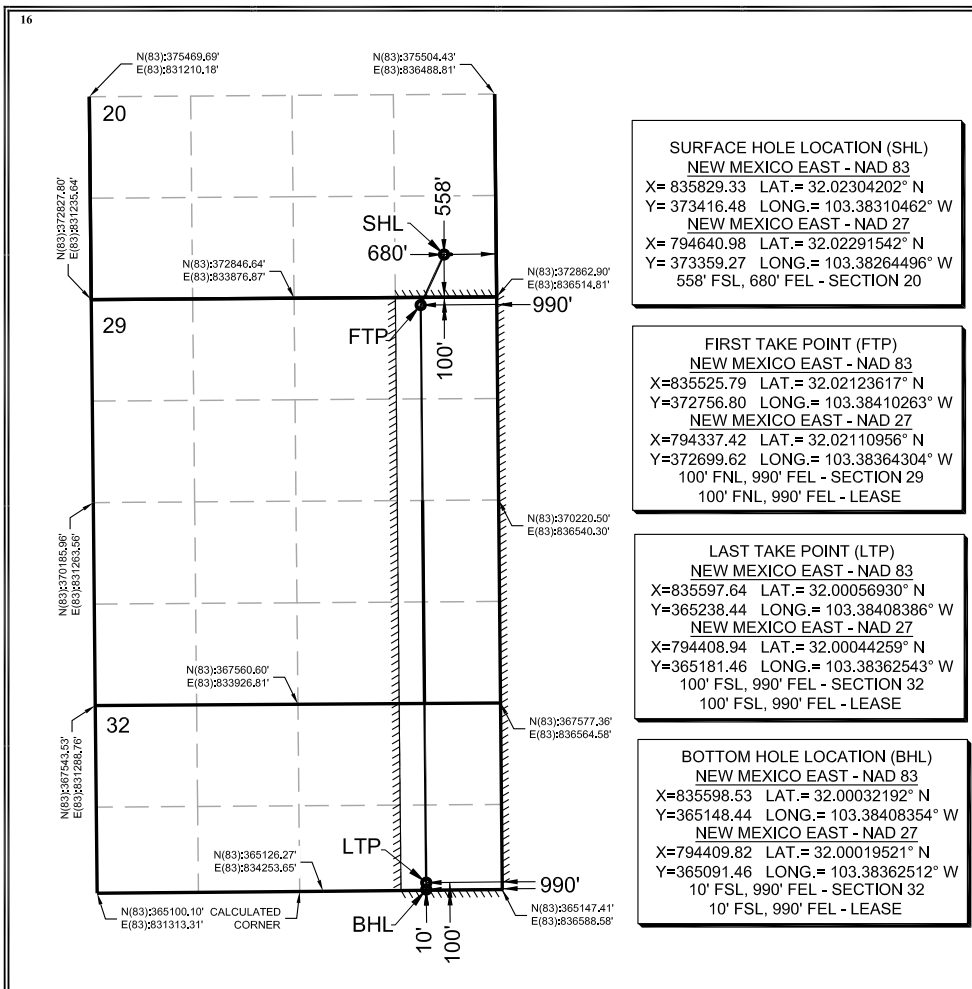
" Surface Location

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	680'	EAST	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
1	32	26-S	35-E		10'	SOUTH	990'	EAST	LEA
12 Dedicated Acres 233.64	13 Joint or Infill Y	14 Consolidation Code	15 Order No.						

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.

Ryan DeLong 8/2/2021
Signature Date

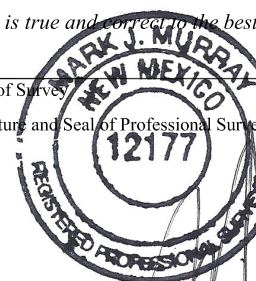
Ryan DeLong - Regulatory Manager
Printed Name

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 and Seal of Professional Surveyor



7/30/2021

Certificate Number

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

1. Geologic Formations

TVD of target	10,948' EOL	Pilot hole depth	NA
MD at TD:	18,842'	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	
Bell Canyon	5372	Oil/Gas	
Cherry Canyon	6187	Oil/Gas	
Brushy Canyon	7796	Oil/Gas	
Bone Spring Lime	9227	Oil/Gas	
Avalon	9249	Oil/Gas	
1st Bone Spring Sand	10514	Oil/Gas	
2nd Bone Spring Sand	10940	Target Oil/Gas	
3rd Bone Spring Sand	12125	Not Penetrated	
Wolfcamp	12478	Not Penetrated	
X	X	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1105	13.375"	54.5	J55	STC	2.23	1.20	8.54
12.25"	0	5315	9.625"	40	J55	LTC	1.13	0.93	2.45
8.75"	0	18,842	5.5"	17	P110	LTC	1.40	2.50	2.39
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.
 Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.
 All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

	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 214H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	470	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
Inter.	1030	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	790	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	2140	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	4,815'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

Titus Oil & Gas Production, LLC - El Campeon Fed Com 214H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4"	13-5/8"	2M	Annular	x	2000 psi
			Blind Ram		2M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram	x	5M
			Pipe Ram	x	
			Double Ram		
			Other*		

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. See attached schematics.

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 214H

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	Saturated Brine	10 - 10.2	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.4	28-34	N/C

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
---	-----------------------------

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 214H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5355 psi at 10948' TVD
Abnormal Temperature	NO 165 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.

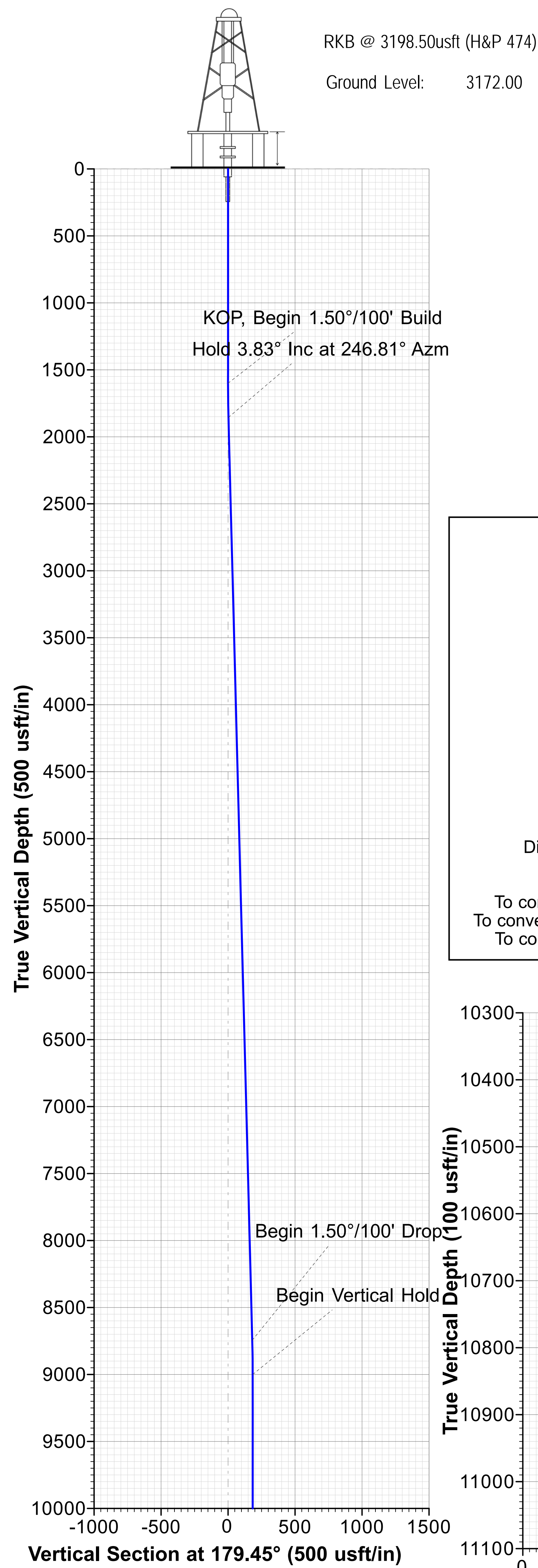
N H₂S is present

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



Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

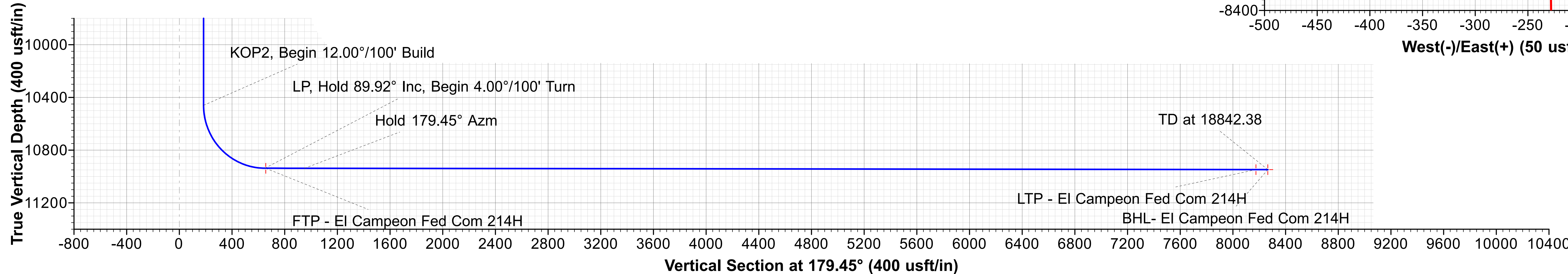
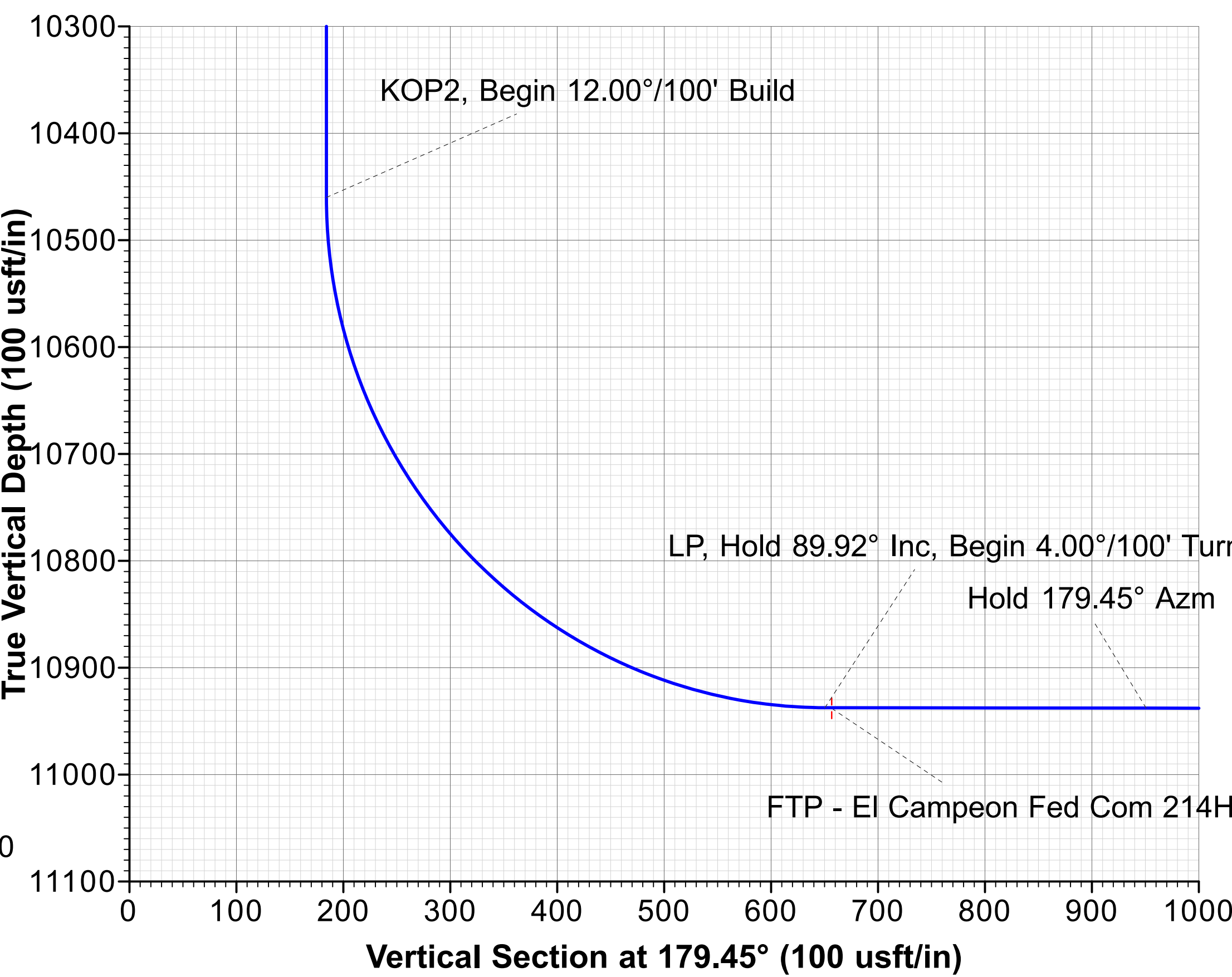
Local Origin: Well 214H, Grid North

Latitude: 32° 1' 22.951314 N
Longitude: 103° 22' 59.176603 W

Grid East: 835829.33
Grid North: 373416.48
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 01-Oct-21
Magnetic Declination: 6.32°
Dip Angle from Horizontal: 59.60°
Magnetic Field Strength: 47408.20884750nT

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°



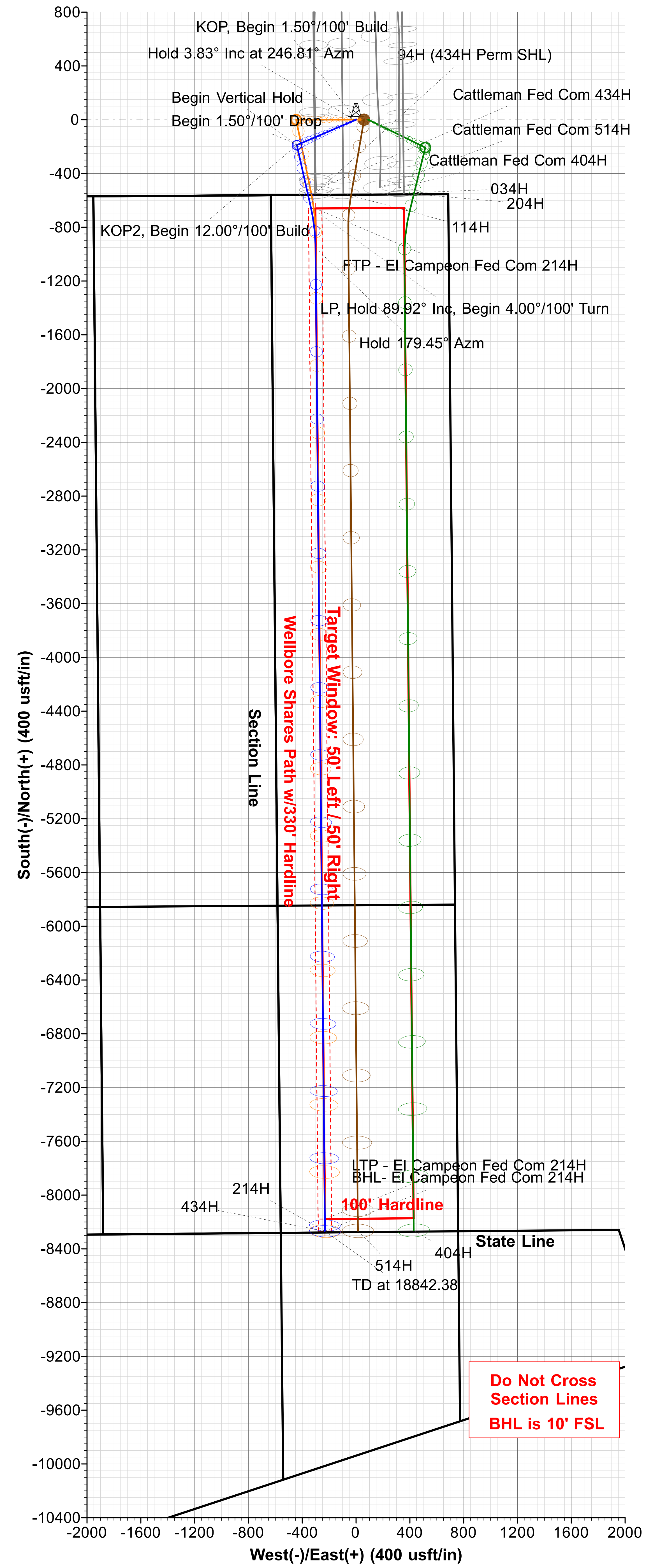
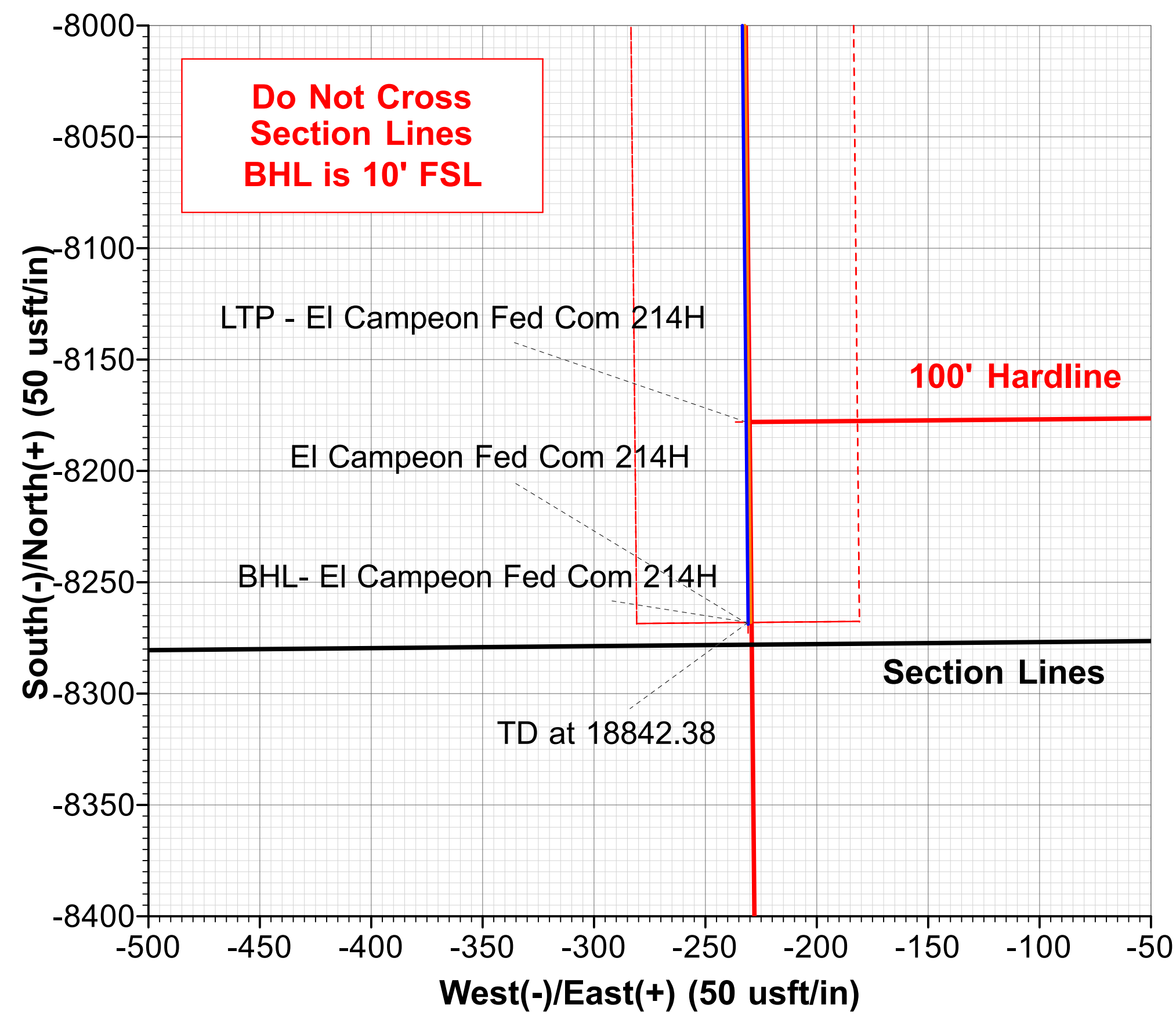
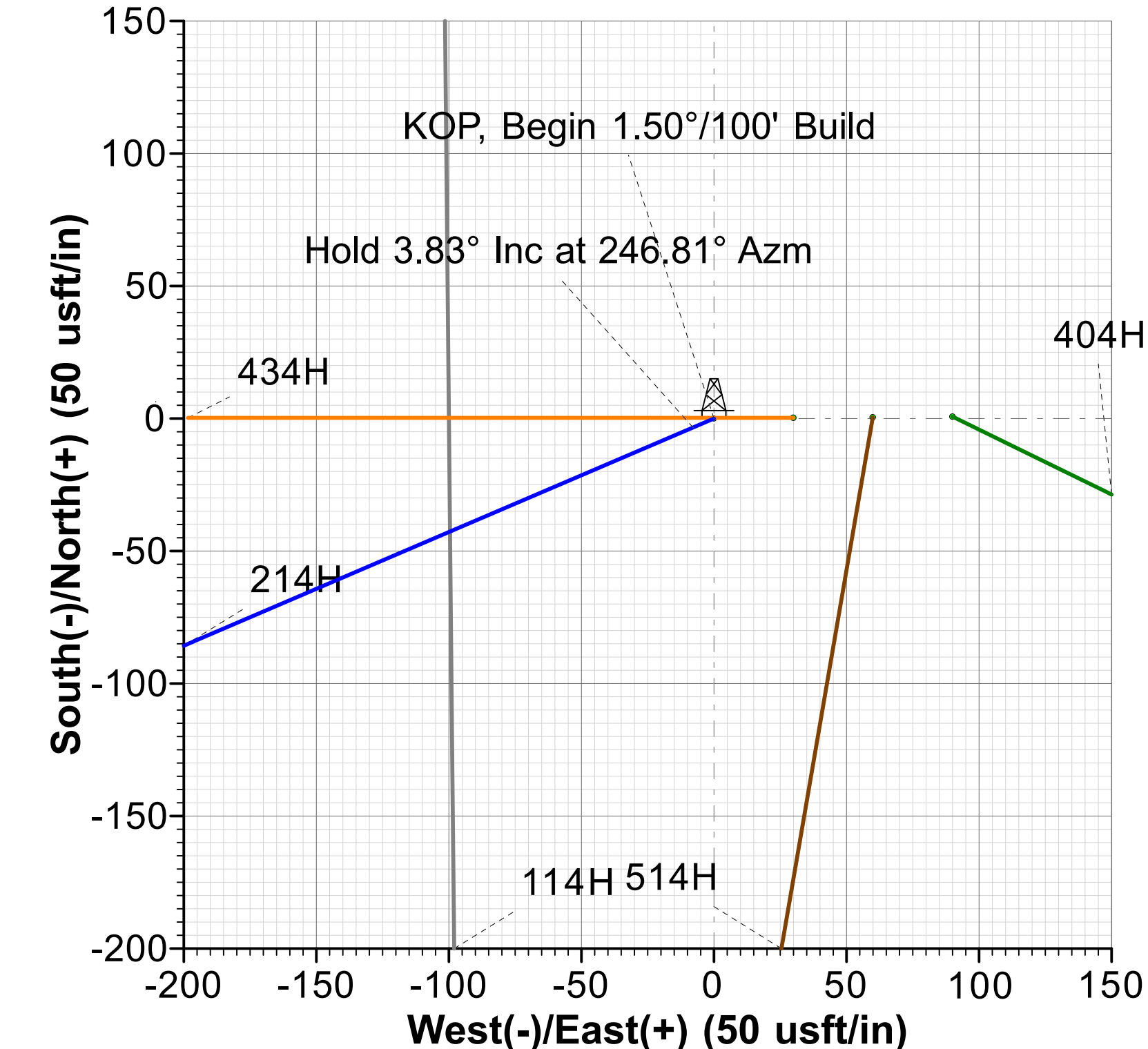
WELL DETAILS									
				Ground Level:	3172.00				
+N/-S	+E/-W	Northing		Easting	Latitude	Longitude			
0.00	0.00	373416.48		835829.33	32° 1' 22.951314 N	103° 22' 59.176603 W			

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
FTP - El Campeon Fed Com 214H	10938.00	-659.68	-303.54	372756.80	835525.79	32° 1' 16.450171 N	103° 23' 2.769429 W		
BHL- El Campeon Fed Com 214H	10948.00	-8268.04	-230.80	365148.44	835598.53	32° 0' 1.158854 N	103° 23' 2.700713 W		
LTP - El Campeon Fed Com 214H	10948.00	-8178.04	-231.69	365238.44	835597.64	32° 0' 2.049486 N	103° 23' 2.701872 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		
2	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 1.50°/100' Build
3	1855.54	3.83	246.81	1855.35	-3.36	-7.85	1.50	246.81	3.29		Hold 3.83° Inc at 246.81° Azm
4	8760.29	3.83	246.81	8744.65	-185.14	-432.15	0.00	0.00	180.98		Begin 1.50°/100' Drop
5	9015.83	0.00	0.00	9000.00	-188.50	-440.00	1.50	180.00	184.27		Begin Vertical Hold
6	10475.83	0.00	0.00	10460.00	-188.50	-440.00	0.00	0.00	184.27		KOP2, Begin 12.00°/100' Build
7	11225.16	89.92	167.35	10937.46	-653.72	-335.58	12.00	167.35	650.47		LP, Hold 89.92° Inc, Begin 4.00°/100' Turn
8	11527.69	89.92	179.45	10937.89	-953.69	-300.88	4.00	90.00	950.76		Hold 179.45° Azm
9	18842.38	89.92	179.45	10948.00	-8268.04	-230.80	0.00	0.00	8265.44	BHL- El Campeon Fed Com 214H	TD at 18842.38

LEGEND

- 514H, OH, Plan 4 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 1 08-05-21





Titus Oil & Gas Production, LLC

Lea County, NM - (NAD83 NME)

El Campeon Fed Com

214H

OH

Plan: Plan 1 08-05-21

Standard Planning Report

05 August, 2021





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
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:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 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: From:	Map	Northing:	373,195.63 usft	Latitude:	32° 1' 20.984376 N
		Easting:	833,309.19 usft	Longitude:	103° 23' 28.469580 W
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	214H					
Well Position	+N/-S	220.85 usft	Northing:	373,416.48 usft	Latitude:	32° 1' 22.951314 N
	+E/-W	2,520.14 usft	Easting:	835,829.33 usft	Longitude:	103° 22' 59.176603 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	10/1/2021	6.32	59.60	47,408.20884750

Design	Plan 1 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	18,842.38	Plan 1 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	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,855.54	3.83	246.81	1,855.35	-3.36	-7.85	1.50	1.50	0.00	246.81	
8,760.29	3.83	246.81	8,744.65	-185.14	-432.15	0.00	0.00	0.00	0.00	
9,015.83	0.00	0.00	9,000.00	-188.50	-440.00	1.50	-1.50	0.00	180.00	
10,475.83	0.00	0.00	10,460.00	-188.50	-440.00	0.00	0.00	0.00	0.00	
11,225.16	89.92	167.35	10,937.46	-653.72	-335.58	12.00	12.00	0.00	167.35	
11,527.69	89.92	179.45	10,937.89	-953.69	-300.88	4.00	0.00	4.00	90.00	
18,842.38	89.92	179.45	10,948.00	-8,268.04	-230.80	0.00	0.00	0.00	0.00	BHL- El Campeon Fe



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
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:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 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
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.50°/100' Build									
1,700.00	1.50	246.81	1,699.99	-0.52	-1.20	0.50	1.50	1.50	0.00
1,800.00	3.00	246.81	1,799.91	-2.06	-4.81	2.02	1.50	1.50	0.00
1,855.54	3.83	246.81	1,855.35	-3.36	-7.85	3.29	1.50	1.50	0.00
Hold 3.83° Inc at 246.81° Azm									
1,900.00	3.83	246.81	1,899.71	-4.54	-10.59	4.43	0.00	0.00	0.00
2,000.00	3.83	246.81	1,999.49	-7.17	-16.73	7.01	0.00	0.00	0.00
2,100.00	3.83	246.81	2,099.26	-9.80	-22.88	9.58	0.00	0.00	0.00
2,200.00	3.83	246.81	2,199.04	-12.43	-29.02	12.15	0.00	0.00	0.00
2,300.00	3.83	246.81	2,298.82	-15.07	-35.17	14.73	0.00	0.00	0.00
2,400.00	3.83	246.81	2,398.59	-17.70	-41.31	17.30	0.00	0.00	0.00
2,500.00	3.83	246.81	2,498.37	-20.33	-47.46	19.87	0.00	0.00	0.00
2,600.00	3.83	246.81	2,598.14	-22.96	-53.60	22.45	0.00	0.00	0.00
2,700.00	3.83	246.81	2,697.92	-25.60	-59.75	25.02	0.00	0.00	0.00
2,800.00	3.83	246.81	2,797.70	-28.23	-65.89	27.59	0.00	0.00	0.00
2,900.00	3.83	246.81	2,897.47	-30.86	-72.04	30.17	0.00	0.00	0.00
3,000.00	3.83	246.81	2,997.25	-33.49	-78.18	32.74	0.00	0.00	0.00
3,100.00	3.83	246.81	3,097.03	-36.13	-84.33	35.31	0.00	0.00	0.00
3,200.00	3.83	246.81	3,196.80	-38.76	-90.47	37.89	0.00	0.00	0.00
3,300.00	3.83	246.81	3,296.58	-41.39	-96.62	40.46	0.00	0.00	0.00
3,400.00	3.83	246.81	3,396.35	-44.02	-102.76	43.03	0.00	0.00	0.00
3,500.00	3.83	246.81	3,496.13	-46.66	-108.91	45.61	0.00	0.00	0.00
3,600.00	3.83	246.81	3,595.91	-49.29	-115.05	48.18	0.00	0.00	0.00
3,700.00	3.83	246.81	3,695.68	-51.92	-121.19	50.76	0.00	0.00	0.00
3,800.00	3.83	246.81	3,795.46	-54.55	-127.34	53.33	0.00	0.00	0.00
3,900.00	3.83	246.81	3,895.24	-57.19	-133.48	55.90	0.00	0.00	0.00
4,000.00	3.83	246.81	3,995.01	-59.82	-139.63	58.48	0.00	0.00	0.00
4,100.00	3.83	246.81	4,094.79	-62.45	-145.77	61.05	0.00	0.00	0.00
4,200.00	3.83	246.81	4,194.56	-65.08	-151.92	63.62	0.00	0.00	0.00
4,300.00	3.83	246.81	4,294.34	-67.72	-158.06	66.20	0.00	0.00	0.00
4,400.00	3.83	246.81	4,394.12	-70.35	-164.21	68.77	0.00	0.00	0.00
4,500.00	3.83	246.81	4,493.89	-72.98	-170.35	71.34	0.00	0.00	0.00
4,600.00	3.83	246.81	4,593.67	-75.61	-176.50	73.92	0.00	0.00	0.00
4,700.00	3.83	246.81	4,693.45	-78.25	-182.64	76.49	0.00	0.00	0.00
4,800.00	3.83	246.81	4,793.22	-80.88	-188.79	79.06	0.00	0.00	0.00
4,900.00	3.83	246.81	4,893.00	-83.51	-194.93	81.64	0.00	0.00	0.00
5,000.00	3.83	246.81	4,992.78	-86.14	-201.08	84.21	0.00	0.00	0.00
5,100.00	3.83	246.81	5,092.55	-88.78	-207.22	86.78	0.00	0.00	0.00
5,200.00	3.83	246.81	5,192.33	-91.41	-213.37	89.36	0.00	0.00	0.00
5,300.00	3.83	246.81	5,292.10	-94.04	-219.51	91.93	0.00	0.00	0.00
5,400.00	3.83	246.81	5,391.88	-96.67	-225.66	94.50	0.00	0.00	0.00
5,500.00	3.83	246.81	5,491.66	-99.31	-231.80	97.08	0.00	0.00	0.00
5,600.00	3.83	246.81	5,591.43	-101.94	-237.95	99.65	0.00	0.00	0.00
5,700.00	3.83	246.81	5,691.21	-104.57	-244.09	102.22	0.00	0.00	0.00
5,800.00	3.83	246.81	5,790.99	-107.20	-250.24	104.80	0.00	0.00	0.00
5,900.00	3.83	246.81	5,890.76	-109.84	-256.38	107.37	0.00	0.00	0.00
6,000.00	3.83	246.81	5,990.54	-112.47	-262.53	109.94	0.00	0.00	0.00
6,100.00	3.83	246.81	6,090.31	-115.10	-268.67	112.52	0.00	0.00	0.00
6,200.00	3.83	246.81	6,190.09	-117.73	-274.82	115.09	0.00	0.00	0.00
6,300.00	3.83	246.81	6,289.87	-120.37	-280.96	117.66	0.00	0.00	0.00
6,400.00	3.83	246.81	6,389.64	-123.00	-287.11	120.24	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
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:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 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)
6,500.00	3.83	246.81	6,489.42	-125.63	-293.25	122.81	0.00	0.00	0.00
6,600.00	3.83	246.81	6,589.20	-128.26	-299.40	125.38	0.00	0.00	0.00
6,700.00	3.83	246.81	6,688.97	-130.90	-305.54	127.96	0.00	0.00	0.00
6,800.00	3.83	246.81	6,788.75	-133.53	-311.69	130.53	0.00	0.00	0.00
6,900.00	3.83	246.81	6,888.53	-136.16	-317.83	133.11	0.00	0.00	0.00
7,000.00	3.83	246.81	6,988.30	-138.79	-323.98	135.68	0.00	0.00	0.00
7,100.00	3.83	246.81	7,088.08	-141.43	-330.12	138.25	0.00	0.00	0.00
7,200.00	3.83	246.81	7,187.85	-144.06	-336.27	140.83	0.00	0.00	0.00
7,300.00	3.83	246.81	7,287.63	-146.69	-342.41	143.40	0.00	0.00	0.00
7,400.00	3.83	246.81	7,387.41	-149.33	-348.56	145.97	0.00	0.00	0.00
7,500.00	3.83	246.81	7,487.18	-151.96	-354.70	148.55	0.00	0.00	0.00
7,600.00	3.83	246.81	7,586.96	-154.59	-360.85	151.12	0.00	0.00	0.00
7,700.00	3.83	246.81	7,686.74	-157.22	-366.99	153.69	0.00	0.00	0.00
7,800.00	3.83	246.81	7,786.51	-159.86	-373.14	156.27	0.00	0.00	0.00
7,900.00	3.83	246.81	7,886.29	-162.49	-379.28	158.84	0.00	0.00	0.00
8,000.00	3.83	246.81	7,986.06	-165.12	-385.43	161.41	0.00	0.00	0.00
8,100.00	3.83	246.81	8,085.84	-167.75	-391.57	163.99	0.00	0.00	0.00
8,200.00	3.83	246.81	8,185.62	-170.39	-397.72	166.56	0.00	0.00	0.00
8,300.00	3.83	246.81	8,285.39	-173.02	-403.86	169.13	0.00	0.00	0.00
8,400.00	3.83	246.81	8,385.17	-175.65	-410.01	171.71	0.00	0.00	0.00
8,500.00	3.83	246.81	8,484.95	-178.28	-416.15	174.28	0.00	0.00	0.00
8,600.00	3.83	246.81	8,584.72	-180.92	-422.30	176.85	0.00	0.00	0.00
8,700.00	3.83	246.81	8,684.50	-183.55	-428.44	179.43	0.00	0.00	0.00
8,760.29	3.83	246.81	8,744.65	-185.14	-432.15	180.98	0.00	0.00	0.00
Begin 1.50°/100' Drop									
8,800.00	3.24	246.81	8,784.29	-186.10	-434.40	181.92	1.50	-1.50	0.00
8,900.00	1.74	246.81	8,884.19	-187.81	-438.39	183.59	1.50	-1.50	0.00
9,000.00	0.24	246.81	8,984.17	-188.49	-439.97	184.26	1.50	-1.50	0.00
9,015.83	0.00	0.00	9,000.00	-188.50	-440.00	184.27	1.50	-1.50	0.00
Begin Vertical Hold									
10,475.83	0.00	0.00	10,460.00	-188.50	-440.00	184.27	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
10,500.00	2.90	167.35	10,484.16	-189.10	-439.87	184.87	12.00	12.00	0.00
10,600.00	14.90	167.35	10,582.78	-204.17	-436.48	199.97	12.00	12.00	0.00
10,700.00	26.90	167.35	10,676.03	-238.91	-428.69	234.79	12.00	12.00	0.00
10,800.00	38.90	167.35	10,759.84	-291.81	-416.81	287.80	12.00	12.00	0.00
10,900.00	50.90	167.35	10,830.54	-360.56	-401.38	356.69	12.00	12.00	0.00
11,000.00	62.90	167.35	10,885.05	-442.15	-383.07	438.46	12.00	12.00	0.00
11,100.00	74.90	167.35	10,920.98	-533.02	-362.68	529.51	12.00	12.00	0.00
11,200.00	86.90	167.35	10,936.77	-629.19	-341.09	625.88	12.00	12.00	0.00
11,225.16	89.92	167.35	10,937.46	-653.72	-335.58	650.47	12.00	12.00	0.00
LP, Hold 89.92° Inc, Begin 4.00°/100' Turn									
11,300.00	89.92	170.34	10,937.57	-727.14	-321.11	724.03	4.00	0.00	4.00
11,400.00	89.92	174.34	10,937.71	-826.23	-307.79	823.24	4.00	0.00	4.00
11,500.00	89.92	178.34	10,937.85	-926.01	-301.41	923.07	4.00	0.00	4.00
11,527.69	89.92	179.45	10,937.89	-953.69	-300.88	950.76	4.00	0.00	4.00
Hold 179.45° Azm									
11,600.00	89.92	179.45	10,937.99	-1,026.00	-300.19	1,023.07	0.00	0.00	0.00
11,700.00	89.92	179.45	10,938.12	-1,125.99	-299.23	1,123.07	0.00	0.00	0.00
11,800.00	89.92	179.45	10,938.26	-1,225.99	-298.27	1,223.07	0.00	0.00	0.00
11,900.00	89.92	179.45	10,938.40	-1,325.98	-297.31	1,323.07	0.00	0.00	0.00
12,000.00	89.92	179.45	10,938.54	-1,425.98	-296.35	1,423.07	0.00	0.00	0.00
12,100.00	89.92	179.45	10,938.68	-1,525.97	-295.40	1,523.07	0.00	0.00	0.00
12,200.00	89.92	179.45	10,938.82	-1,625.97	-294.44	1,623.07	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
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:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 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)
12,300.00	89.92	179.45	10,938.95	-1,725.96	-293.48	1,723.07	0.00	0.00	0.00
12,400.00	89.92	179.45	10,939.09	-1,825.96	-292.52	1,823.07	0.00	0.00	0.00
12,500.00	89.92	179.45	10,939.23	-1,925.96	-291.56	1,923.07	0.00	0.00	0.00
12,600.00	89.92	179.45	10,939.37	-2,025.95	-290.61	2,023.07	0.00	0.00	0.00
12,700.00	89.92	179.45	10,939.51	-2,125.95	-289.65	2,123.07	0.00	0.00	0.00
12,800.00	89.92	179.45	10,939.65	-2,225.94	-288.69	2,223.07	0.00	0.00	0.00
12,900.00	89.92	179.45	10,939.78	-2,325.94	-287.73	2,323.07	0.00	0.00	0.00
13,000.00	89.92	179.45	10,939.92	-2,425.93	-286.77	2,423.07	0.00	0.00	0.00
13,100.00	89.92	179.45	10,940.06	-2,525.93	-285.82	2,523.07	0.00	0.00	0.00
13,200.00	89.92	179.45	10,940.20	-2,625.92	-284.86	2,623.07	0.00	0.00	0.00
13,300.00	89.92	179.45	10,940.34	-2,725.92	-283.90	2,723.07	0.00	0.00	0.00
13,400.00	89.92	179.45	10,940.48	-2,825.91	-282.94	2,823.07	0.00	0.00	0.00
13,500.00	89.92	179.45	10,940.61	-2,925.91	-281.98	2,923.07	0.00	0.00	0.00
13,600.00	89.92	179.45	10,940.75	-3,025.90	-281.03	3,023.07	0.00	0.00	0.00
13,700.00	89.92	179.45	10,940.89	-3,125.90	-280.07	3,123.07	0.00	0.00	0.00
13,800.00	89.92	179.45	10,941.03	-3,225.89	-279.11	3,223.07	0.00	0.00	0.00
13,900.00	89.92	179.45	10,941.17	-3,325.89	-278.15	3,323.07	0.00	0.00	0.00
14,000.00	89.92	179.45	10,941.30	-3,425.88	-277.19	3,423.07	0.00	0.00	0.00
14,100.00	89.92	179.45	10,941.44	-3,525.88	-276.24	3,523.07	0.00	0.00	0.00
14,200.00	89.92	179.45	10,941.58	-3,625.88	-275.28	3,623.07	0.00	0.00	0.00
14,300.00	89.92	179.45	10,941.72	-3,725.87	-274.32	3,723.07	0.00	0.00	0.00
14,400.00	89.92	179.45	10,941.86	-3,825.87	-273.36	3,823.07	0.00	0.00	0.00
14,500.00	89.92	179.45	10,942.00	-3,925.86	-272.40	3,923.07	0.00	0.00	0.00
14,600.00	89.92	179.45	10,942.13	-4,025.86	-271.44	4,023.07	0.00	0.00	0.00
14,700.00	89.92	179.45	10,942.27	-4,125.85	-270.49	4,123.07	0.00	0.00	0.00
14,800.00	89.92	179.45	10,942.41	-4,225.85	-269.53	4,223.07	0.00	0.00	0.00
14,900.00	89.92	179.45	10,942.55	-4,325.84	-268.57	4,323.07	0.00	0.00	0.00
15,000.00	89.92	179.45	10,942.69	-4,425.84	-267.61	4,423.07	0.00	0.00	0.00
15,100.00	89.92	179.45	10,942.83	-4,525.83	-266.65	4,523.07	0.00	0.00	0.00
15,200.00	89.92	179.45	10,942.96	-4,625.83	-265.70	4,623.07	0.00	0.00	0.00
15,300.00	89.92	179.45	10,943.10	-4,725.82	-264.74	4,723.07	0.00	0.00	0.00
15,400.00	89.92	179.45	10,943.24	-4,825.82	-263.78	4,823.06	0.00	0.00	0.00
15,500.00	89.92	179.45	10,943.38	-4,925.81	-262.82	4,923.06	0.00	0.00	0.00
15,600.00	89.92	179.45	10,943.52	-5,025.81	-261.86	5,023.06	0.00	0.00	0.00
15,700.00	89.92	179.45	10,943.66	-5,125.81	-260.91	5,123.06	0.00	0.00	0.00
15,800.00	89.92	179.45	10,943.79	-5,225.80	-259.95	5,223.06	0.00	0.00	0.00
15,900.00	89.92	179.45	10,943.93	-5,325.80	-258.99	5,323.06	0.00	0.00	0.00
16,000.00	89.92	179.45	10,944.07	-5,425.79	-258.03	5,423.06	0.00	0.00	0.00
16,100.00	89.92	179.45	10,944.21	-5,525.79	-257.07	5,523.06	0.00	0.00	0.00
16,200.00	89.92	179.45	10,944.35	-5,625.78	-256.12	5,623.06	0.00	0.00	0.00
16,300.00	89.92	179.45	10,944.48	-5,725.78	-255.16	5,723.06	0.00	0.00	0.00
16,400.00	89.92	179.45	10,944.62	-5,825.77	-254.20	5,823.06	0.00	0.00	0.00
16,500.00	89.92	179.45	10,944.76	-5,925.77	-253.24	5,923.06	0.00	0.00	0.00
16,600.00	89.92	179.45	10,944.90	-6,025.76	-252.28	6,023.06	0.00	0.00	0.00
16,700.00	89.92	179.45	10,945.04	-6,125.76	-251.33	6,123.06	0.00	0.00	0.00
16,800.00	89.92	179.45	10,945.18	-6,225.75	-250.37	6,223.06	0.00	0.00	0.00
16,900.00	89.92	179.45	10,945.31	-6,325.75	-249.41	6,323.06	0.00	0.00	0.00
17,000.00	89.92	179.45	10,945.45	-6,425.74	-248.45	6,423.06	0.00	0.00	0.00
17,100.00	89.92	179.45	10,945.59	-6,525.74	-247.49	6,523.06	0.00	0.00	0.00
17,200.00	89.92	179.45	10,945.73	-6,625.74	-246.54	6,623.06	0.00	0.00	0.00
17,300.00	89.92	179.45	10,945.87	-6,725.73	-245.58	6,723.06	0.00	0.00	0.00
17,400.00	89.92	179.45	10,946.01	-6,825.73	-244.62	6,823.06	0.00	0.00	0.00
17,500.00	89.92	179.45	10,946.14	-6,925.72	-243.66	6,923.06	0.00	0.00	0.00
17,600.00	89.92	179.45	10,946.28	-7,025.72	-242.70	7,023.06	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 214H
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:	214H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 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)	
17,700.00	89.92	179.45	10,946.42	-7,125.71	-241.74	7,123.06	0.00	0.00	0.00	
17,800.00	89.92	179.45	10,946.56	-7,225.71	-240.79	7,223.06	0.00	0.00	0.00	
17,900.00	89.92	179.45	10,946.70	-7,325.70	-239.83	7,323.06	0.00	0.00	0.00	
18,000.00	89.92	179.45	10,946.84	-7,425.70	-238.87	7,423.06	0.00	0.00	0.00	
18,100.00	89.92	179.45	10,946.97	-7,525.69	-237.91	7,523.06	0.00	0.00	0.00	
18,200.00	89.92	179.45	10,947.11	-7,625.69	-236.95	7,623.06	0.00	0.00	0.00	
18,300.00	89.92	179.45	10,947.25	-7,725.68	-236.00	7,723.06	0.00	0.00	0.00	
18,400.00	89.92	179.45	10,947.39	-7,825.68	-235.04	7,823.06	0.00	0.00	0.00	
18,500.00	89.92	179.45	10,947.53	-7,925.67	-234.08	7,923.06	0.00	0.00	0.00	
18,600.00	89.92	179.45	10,947.67	-8,025.67	-233.12	8,023.06	0.00	0.00	0.00	
18,700.00	89.92	179.45	10,947.80	-8,125.66	-232.16	8,123.06	0.00	0.00	0.00	
18,800.00	89.92	179.45	10,947.94	-8,225.66	-231.21	8,223.06	0.00	0.00	0.00	
18,842.38	89.92	179.45	10,948.00	-8,268.04	-230.80	8,265.44	0.00	0.00	0.00	
TD at 18842.38										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP - El Campeon Fed C - hit/miss target - Shape - Point	0.00	0.00	10,938.00	-659.68	-303.54	372,756.80	835,525.79	32° 1' 16.450171 N	103° 23' 2.769429 W	- plan misses target center by 30.03usft at 11237.20usft MD (10937.48 TVD, -665.49 N, -333.00 E)
LTP - El Campeon Fed C - plan misses target center by 0.13usft at 18752.38usft MD (10947.88 TVD, -8178.04 N, -231.66 E) - Point	0.00	0.00	10,948.00	-8,178.04	-231.69	365,238.44	835,597.64	32° 0' 2.049486 N	103° 23' 2.701872 W	
BHL - El Campeon Fed C - plan hits target center - Rectangle (sides W100.00 H7,608.71 D0.00)	0.08	179.45	10,948.00	-8,268.04	-230.80	365,148.44	835,598.53	32° 0' 1.158854 N	103° 23' 2.700713 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
18,882.61		20" Casing	20	24	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
1,600.00	1,600.00	+N/-S (usft)	+E/-W (usft)		KOP, Begin 1.50°/100' Build
1,855.54	1,855.35	-3.36	-7.85		Hold 3.83° Inc at 246.81° Azm
8,760.29	8,744.65	-185.14	-432.15		Begin 1.50°/100' Drop
9,015.83	9,000.00	-188.50	-440.00		Begin Vertical Hold
10,475.83	10,460.00	-188.50	-440.00		KOP2, Begin 12.00°/100' Build
11,225.16	10,937.46	-653.72	-335.58		LP, Hold 89.92° Inc, Begin 4.00°/100' Turn
11,527.69	10,937.89	-953.69	-300.88		Hold 179.45° Azm
18,842.38	10,948.00	-8,268.04	-230.80		TD at 18842.38

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 42083

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 42083
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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