

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well☐ Gas Well☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

FIRST TAKE POINT

FROM: C-24-20S-32E; 100 FNL, 2310 FWL

TO: D-24-20S-32E; 100 FNL, 660 FWL

LAST TAKE POINT

FROM: N-25-20S-32E; 100 FSL, 2310 FWL

TO: E-36-20S-32E; 2541 FNL, 660 FWL

BOTTOM HOLE LOCATION

FROM: N-25-20S-32E; 10 FSL, 2310 FWL

TO: E-36-20S-32E; 2631 FNL, 660 FWL

INTERMEDIATE #2 CASING POINT

FROM: 4700'

TO: 5286' W/ DV TOOL @ 3591'

PRODUCTION CASING

FROM: 17# P-110 LTC

TO: 20# P-110 RY VARN

Location of Well

0. SHL: NENW / 267 FNL / 1337 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.565191 / LONG: -103.7240034 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 0 FNL / 2305 FWL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.551372 / LONG: -103.720835 (TVD: 9890 feet, MD: 15000 feet)

PPP: NESW / 2642 FNL / 2308 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.558643 / LONG: -103.72084 (TVD: 9922 feet, MD: 12300 feet)

PPP: SENW / 1327 FNL / 2309 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.562279 / LONG: -103.720842 (TVD: 9889 feet, MD: 11000 feet)

BHL: SESW / 10 FSL / 2310 FWL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.5369063 / LONG: -103.7208272 (TVD: 10121 feet, MD: 20239 feet)

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 30-025-50826	2 Pool Code 53560	3 Pool Name SALT LAKE; BONE SPRING
4 Property Code 333575	5 Property Name PAKSE SOUTH FED COM	6 Well Number 301H
7 OGRID No. 361165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3537'

10 Surface Location

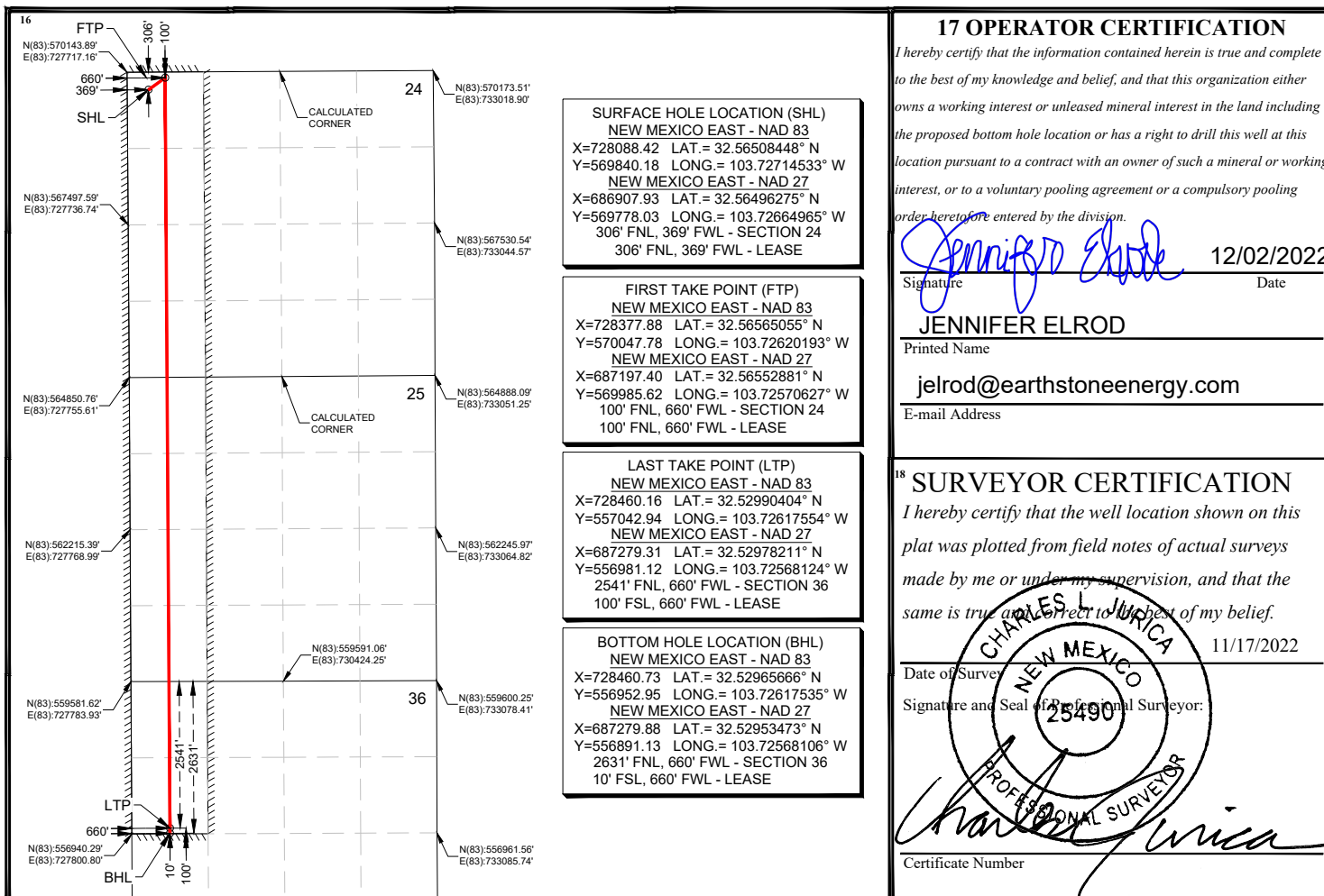
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	20-S	32-E		306'	NORTH	369'	WEST	LEA

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
E	36	20-S	32-E		2631'	NORTH	660'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
400	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.



Intent ☐ As Drilled ☐

API # 30-025-50826		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

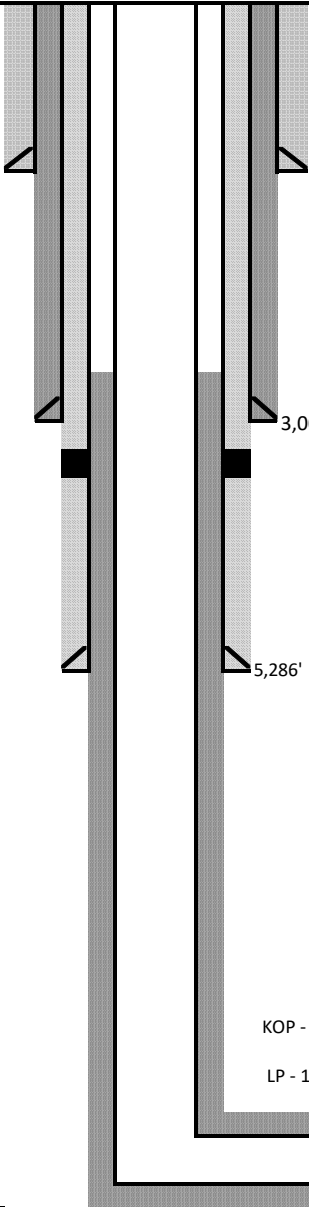
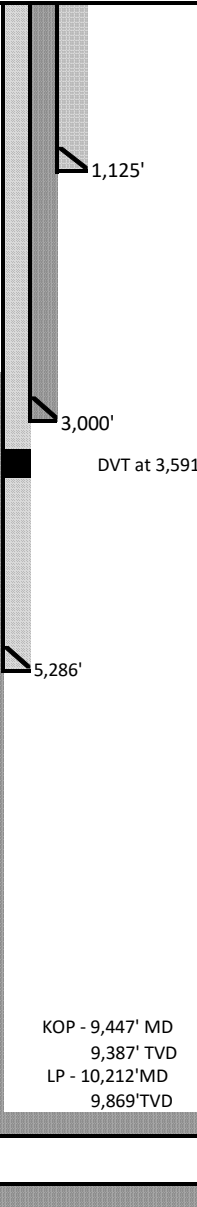
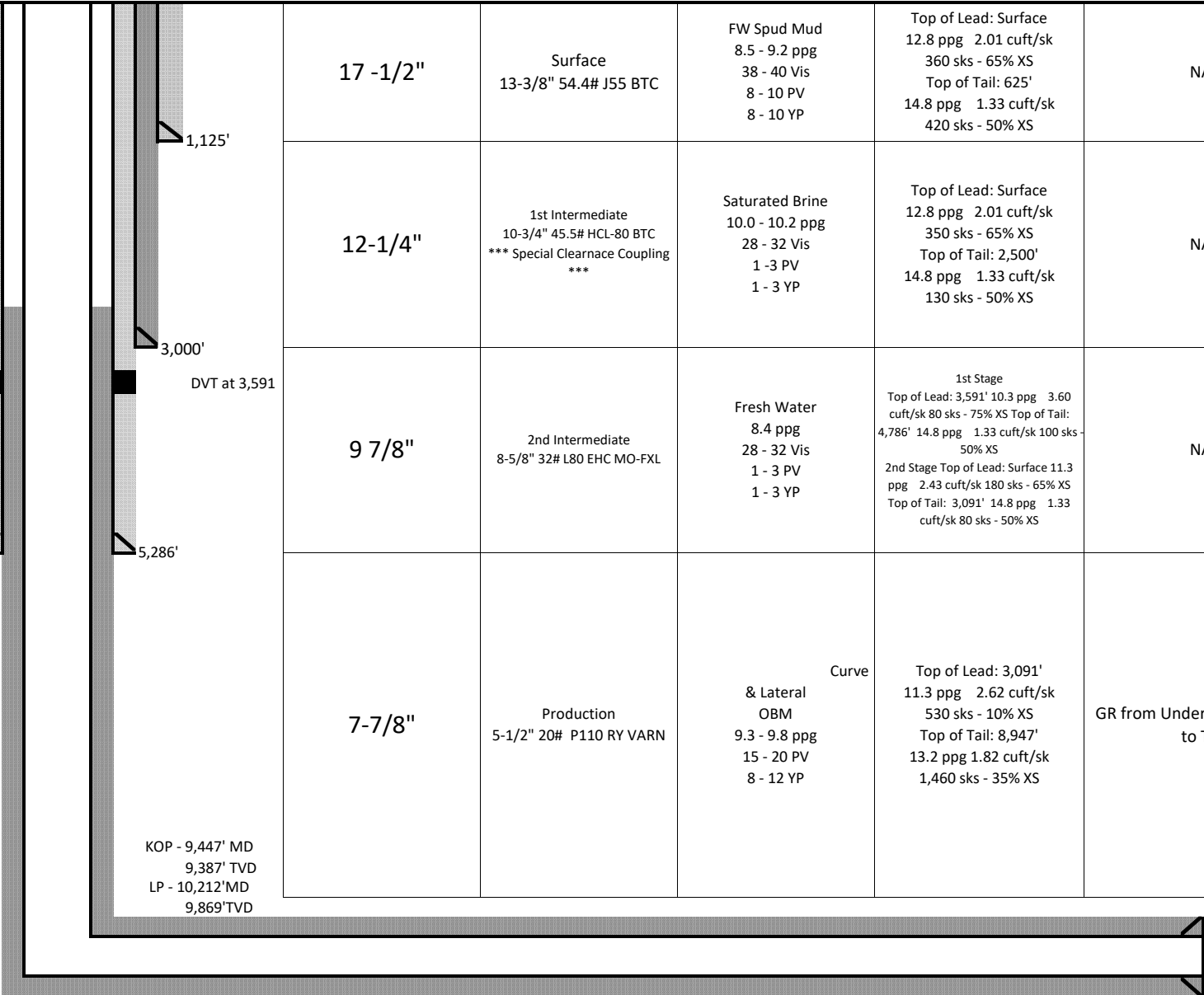
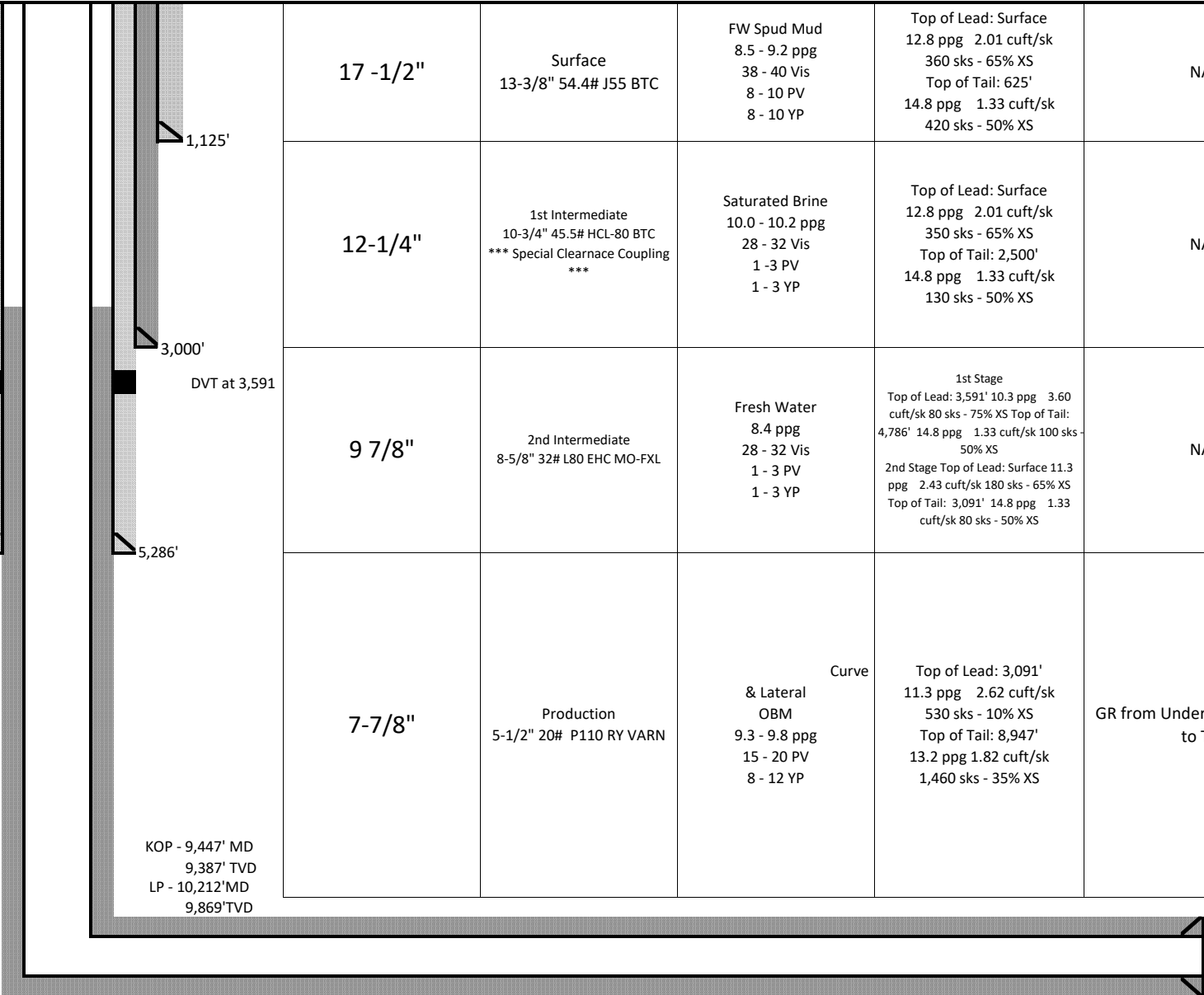
KZ 06/29/2018

Casing Program: Paske South Fed Com 301H

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Pipe Body Tension (lbs)	Joint Tension (lbs)	Air Weight (lbs)	Bouyant Weight (lbs)	Pipe Body Tension SF (1.8)	Joint Tension SF (1.8)
Surface																			
17.5	0'	1,125'	1,125'	13.375	54.5	J-55	BTC	New	8.6	2,740	5.45	1,130	3.37	1,480,000	1,402,000	61,313	53,255	27.79	26.33
Intermediate 1																			
12.25	0'	3,000'	3,000'	10.75	45.5	HCL80	BTC - SCC	New	10.2	5,210	3.27	2,940	3.70	853,000	909,000	136,500	115,224	7.40	7.89
Intermediate 2																			
9.875	0'	5,286'	5,286'	8.625	32	L80 EHC	BTC	New	8.4	5,890	2.55	4,100	2.66	630,000	520,000	169,152	147,439	4.27	3.53
Production																			
7.875	0'	23,144'	10,399'	5 1/2"	20	P110 RY	VARN	New	9.8	12,640	2.45	13,300	2.58	641,000	667,000	202,420	172,106	3.72	3.88

Casing Design Criteria and Casing Loading Assumptions:	
<u>Surface</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg
<u>Intermediate 1</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	10.2 ppg
Collapse A 1.125 design factor with 1/2 TVD internal evacuation and collapse force equal to a mud gradient of:	10.2 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	10.2 ppg
<u>Intermediate 2</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.4 ppg
Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.4 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.4 ppg
<u>Production</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.8 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.8 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.8 ppg

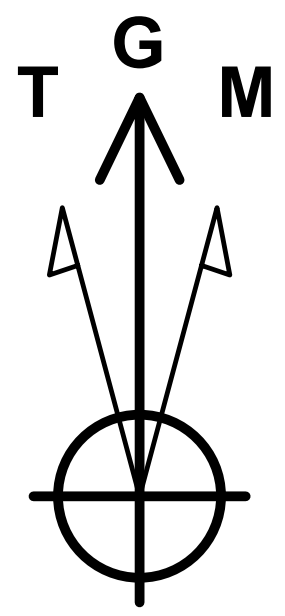
Updated: 11/22/2022

TVD ft-RKB	Geological Tops	Wellbore Sketch		Hole Size	Casing	Drilling Fluids	Cement	OH Evaluation/Logs						
1,000'	1100.5 Rustler 1350.5 Salado			17 -1/2"	Surface 13-3/8" 54.4# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 38 - 40 Vis 8 - 10 PV 8 - 10 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 360 sks - 65% XS Top of Tail: 625' 14.8 ppg 1.33 cuft/sk 420 sks - 50% XS	NA						
2,000'				12-1/4"	1st Intermediate 10-3/4" 45.5# HCL-80 BTC *** Special Clearance Coupling ***	Saturated Brine 10.0 - 10.2 ppg 28 - 32 Vis 1 -3 PV 1 - 3 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 350 sks - 65% XS Top of Tail: 2,500' 14.8 ppg 1.33 cuft/sk 130 sks - 50% XS	NA						
3,000'	2700.5 Base Salt			9 7/8"	2nd Intermediate 8-5/8" 32# L80 EHC MO-FXL	Fresh Water 8.4 ppg 28 - 32 Vis 1 - 3 PV 1 - 3 YP	1st Stage Top of Lead: 3,591' 10.3 ppg 3.60 cuft/sk 80 sks - 75% XS Top of Tail: 4,786' 14.8 ppg 1.33 cuft/sk 100 sks - 50% XS 2nd Stage Top of Lead: Surface 11.3 ppg 2.43 cuft/sk 180 sks - 65% XS Top of Tail: 3,091' 14.8 ppg 1.33 cuft/sk 80 sks - 50% XS	NA						
4,000'	3691 Capitan Reef			7-7/8"	Production 5-1/2" 20# P110 RY VARN	& Lateral OBM 9.3 - 9.8 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 3,091' 11.3 ppg 2.62 cuft/sk 530 sks - 10% XS Top of Tail: 8,947' 13.2 ppg 1.82 cuft/sk 1,460 sks - 35% XS	GR from Under Intermediate to TD						
5,000'	5260.5 Bell Canyon													
6,000'	5701 Cherry Canyon													
7,000'	6267.5 Brushy Canyon													
8,000'	7880.5 Top BSPG Lime 8915.5 1st BSPG Ss													
9,000'	9225.5 2nd BSPG Carb 9,449 2nd BSPG Ss													
10,000'	9946 3rd BSPG Carb 10,186 Target LP													
11,000'														
								23,144' MD 10,399' TVD						

Project: Lea County, NM (Nad 83 NME)
Site: Pakse South Fed Com
Well: Pakse South Fed Com 301H
Wellbore: OH
Design: Plan 1 11-29-22
Rig: Scandril Star



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.33°
Magnetic North: 6.17°

Magnetic Field
Strength: 47819.4nT
Dip Angle: 60.34°
Date: 1/29/2023
Model: MVHD

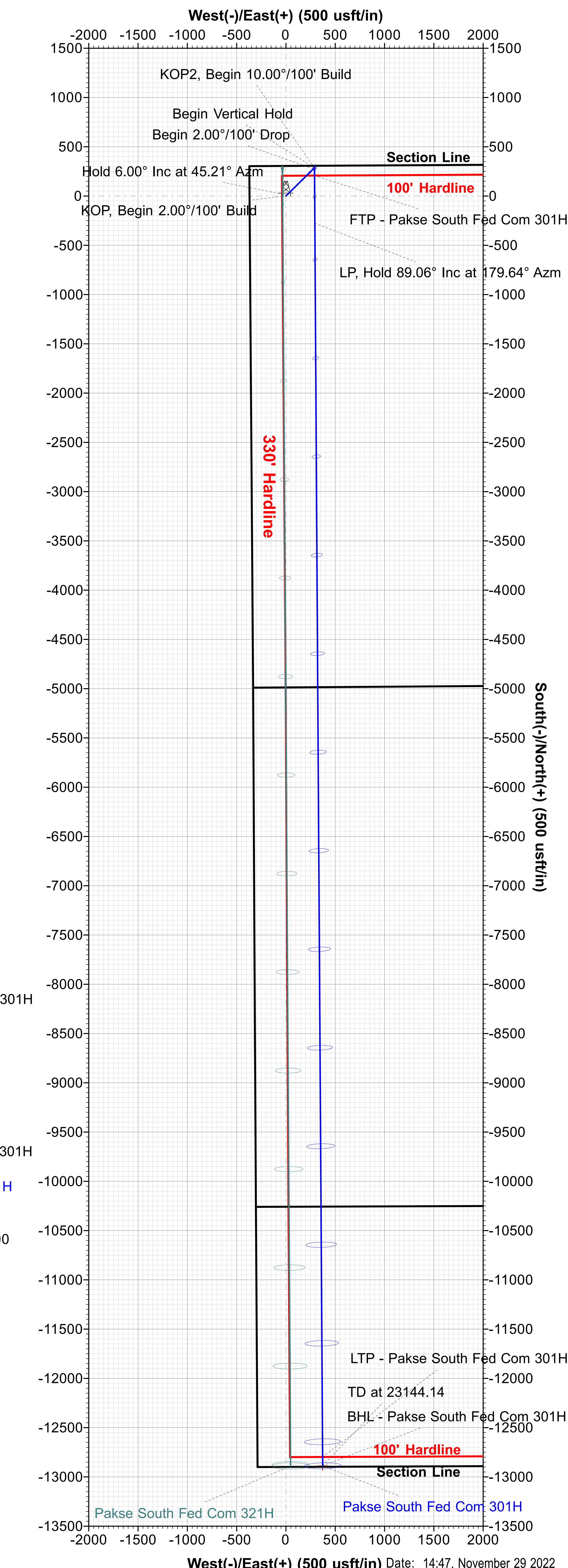
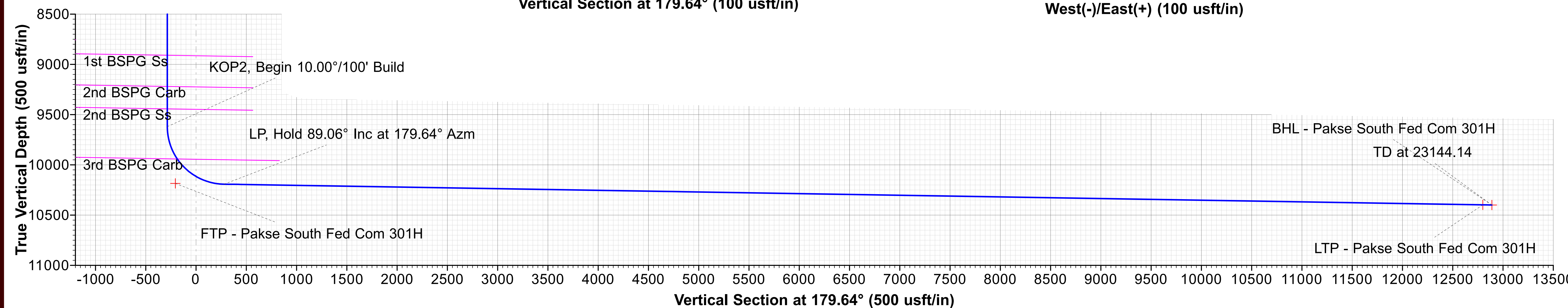
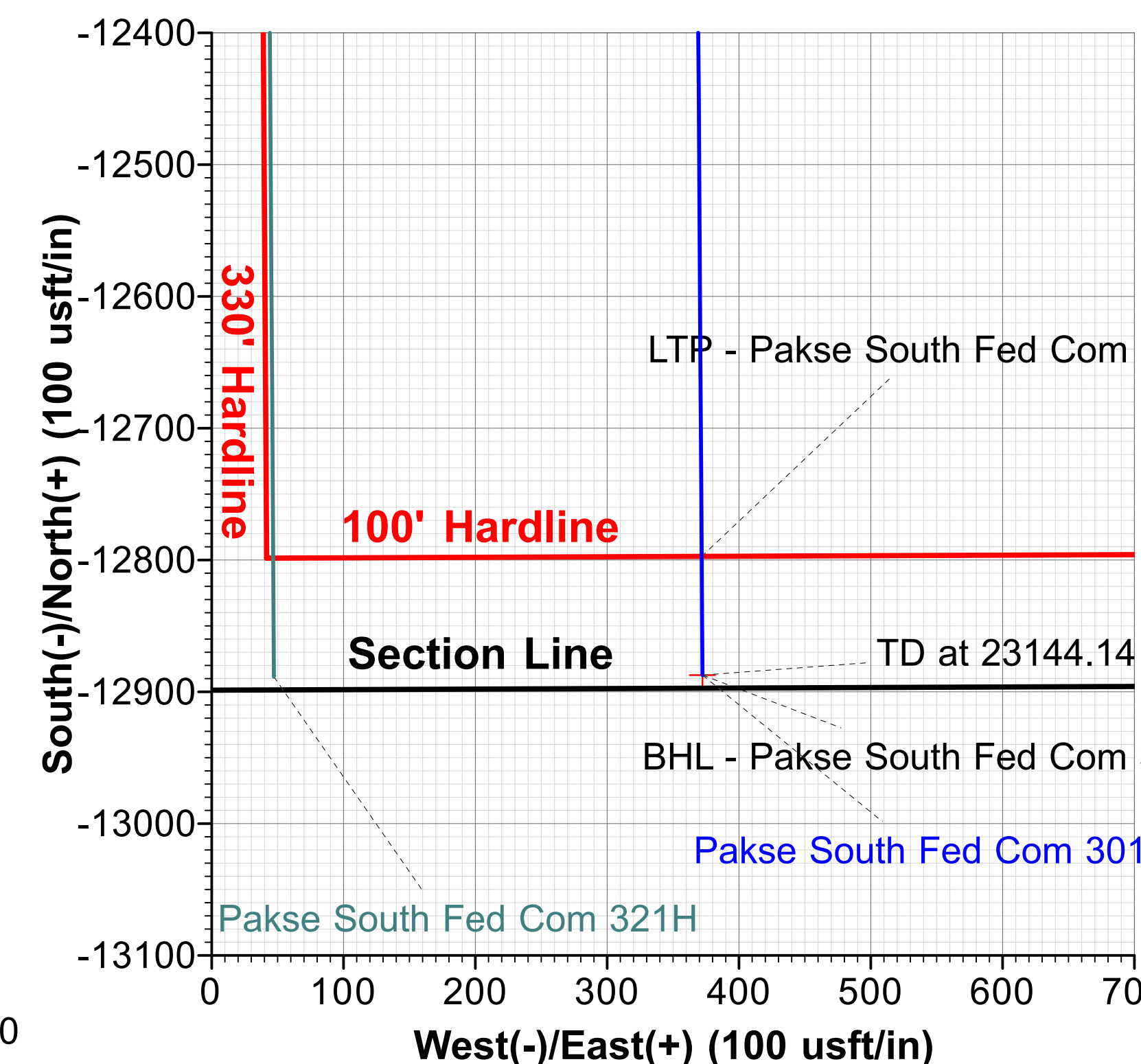
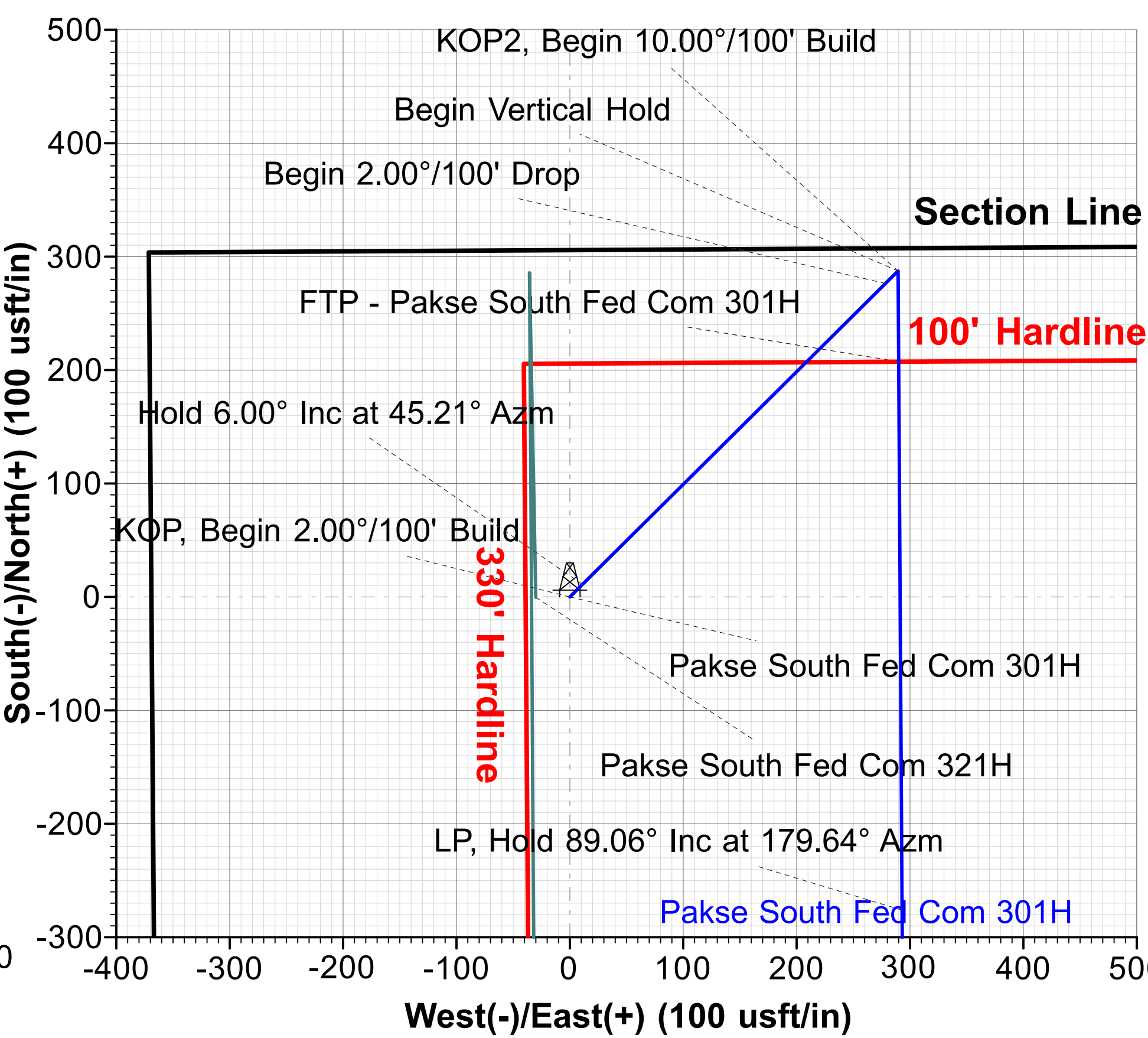
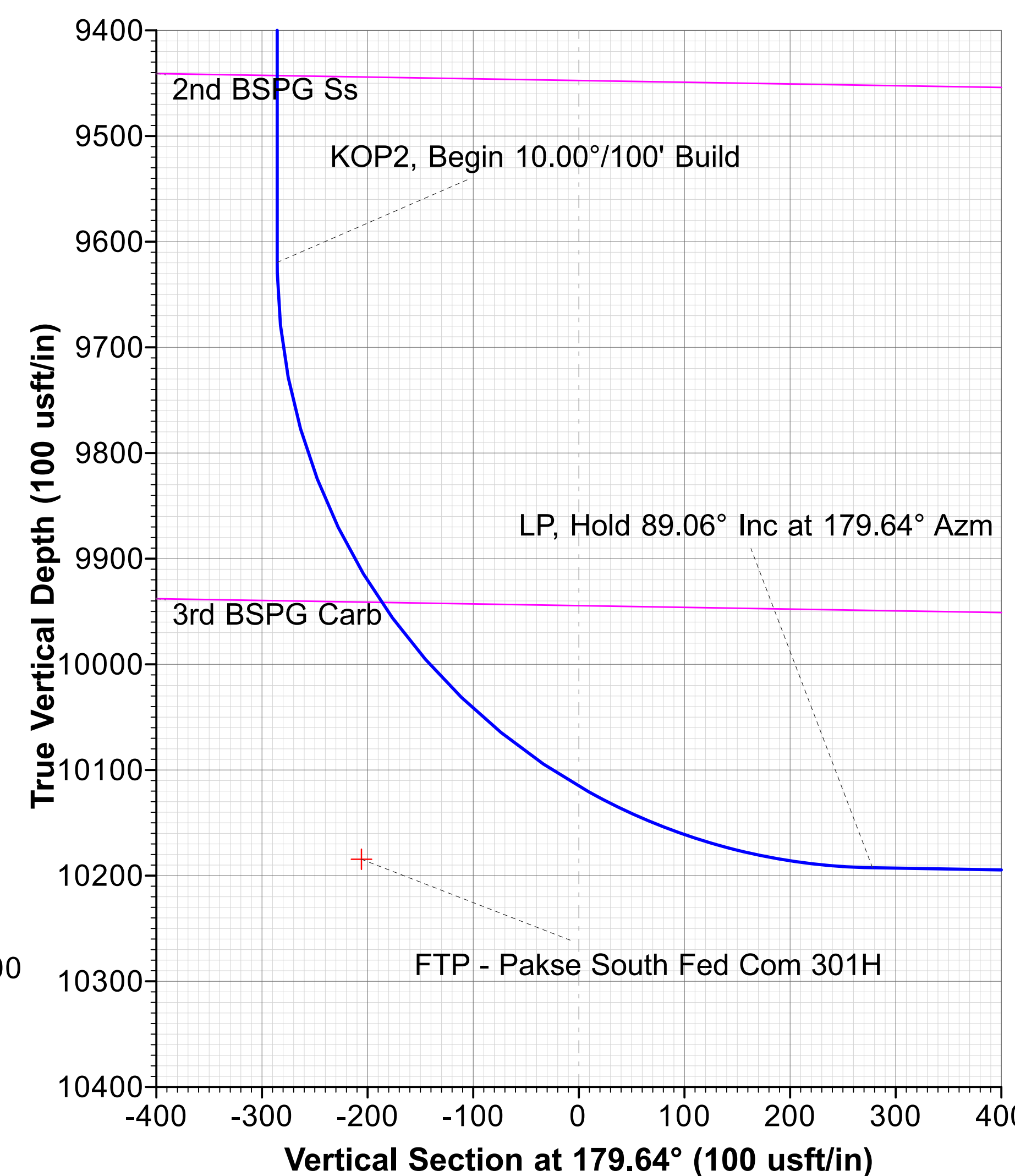
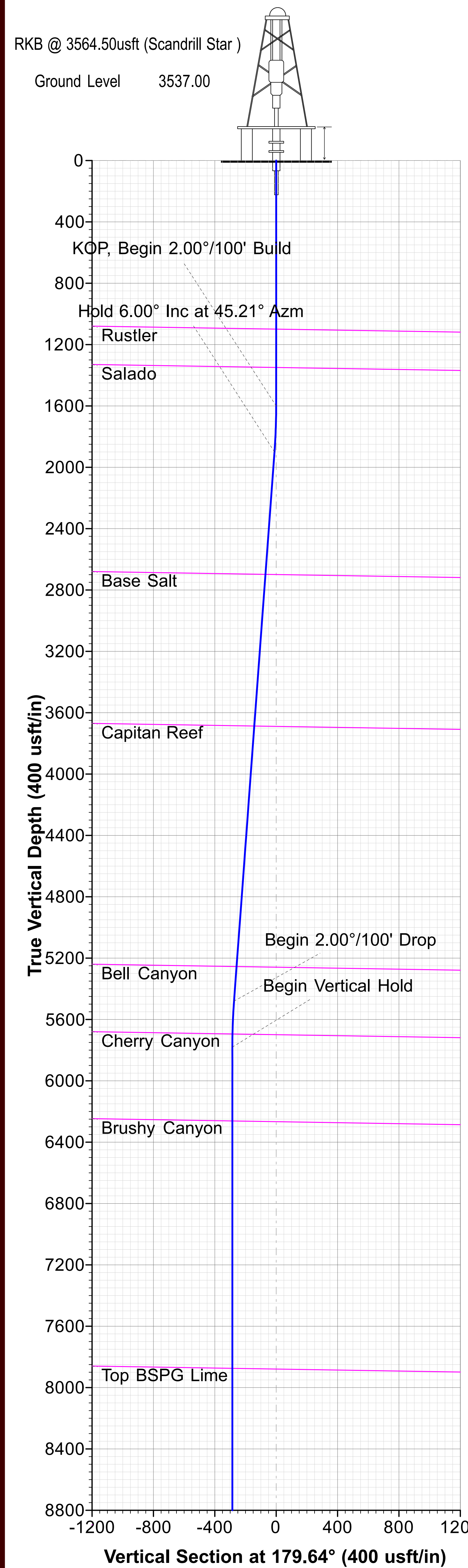
WELL DETAILS						
	Ground Level	3537.00				
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0.00	0.00	569840.18	728088.42	32° 33' 54.304145 N	103° 43' 37.723168 W

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	0.000	0.00		
2	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
3	1900.13	6.00	45.21	1899.58	11.06	11.15	2.00	45.214	-10.99		Hold 6.00° Inc at 45.21° Azm
4	5500.71	6.00	45.21	5480.42	276.31	278.38	0.00	0.000	-274.55		Begin 2.00°/100' Drop
5	5800.84	0.00	10.00	5780.00	287.37	289.53	2.00	180.000	-285.55		Begin Vertical Hold
6	9640.54	0.00	10.00	9619.70	287.37	289.53	0.00	0.000	-285.55		KOP2, Begin 10.00°/100' Build
7	10531.14	89.06	179.64	10192.58	-276.18	293.07	10.00	179.640	278.01		LP, Hold 89.06° Inc at 179.64° Azm
8	23144.14	89.06	179.64	10399.50	-12887.23	372.31	0.00	0.000	12889.31	BHL - Pakse South Fed Com 301H	TD at 23144.14

DESIGN TARGET DETAILS											
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
FTP - Pakse South Fed Com 301H	10184.50	207.60	289.46	570047.78	728377.88	32° 33' 56.342016 N	103° 43' 34.327012 W				
LTP - Pakse South Fed Com 301H	10398.02	-12797.24	371.74	557042.94	728460.16	32° 31' 47.654499 N	103° 43' 34.231960 W				
BHL - Pakse South Fed Com 301H	10399.50	-12887.23	372.31	556952.95	728460.73	32° 31' 46.764014 N	103° 43' 34.231292 W				

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well Pakse South Fed Com 301H, Grid North
Latitude: 32° 33' 54.304145 N
Longitude: 103° 43' 37.723168 W
Grid East: 728088.42
Grid North: 569840.18
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 29-Jan-23
Magnetic Declination: 6.498°
Dip Angle from Horizontal: 60.344°
Magnetic Field Strength: 47819.35467965nT
To convert a Magnetic Direction to a Grid Direction, Add 6.171°
To convert a Magnetic Direction to a True Direction, Add 6.498° East
To convert a True Direction to a Grid Direction, Subtract 0.326°

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1099.50	1099.50	Rustler
1349.50	1349.50	Salado
2698.35	2703.31	Base Salt
3687.16	3697.56	Capitan Reef
5255.27	5274.32	Bell Canyon
5694.83	5715.66	Cherry Canyon
6261.81	6282.65	Brushy Canyon
7874.81	7895.65	Top BSPG Lime
8909.81	8930.65	1st BSPG Ss
9219.81	9240.65	2nd BSPG Carb
9442.81	9463.65	2nd BSPG Ss
9941.44	9982.16	3rd BSPG Carb





Earthstone Operating, LLC

Lea County, NM (Nad 83 NME)

Pakse South Fed Com

Pakse South Fed Com 301H

OH

Plan: Plan 1 11-29-22

Standard Planning Report

29 November, 2022





Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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

Site		Pakse South Fed Com			
Site Position:		Northing:	569,840.18 usft	Latitude:	32° 33' 54.304145 N
From:	Map	Easting:	728,088.42 usft	Longitude:	103° 43' 37.723168 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.326 °

Well	Pakse South Fed Com 301H					
Well Position	+N/-S	0.00 usft	Northing:	569,840.18 usft	Latitude:	32° 33' 54.304145 N
	+E/-W	0.00 usft	Easting:	728,088.42 usft	Longitude:	103° 43' 37.723168 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,537.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/29/2023	6.498	60.344	47,819.35467966

Design	Plan 1 11-29-22			
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	179.64

Plan Survey Tool Program	Date	11/29/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,144.14	Plan 1 11-29-22 (OH)	MWD+HRGM
				OWSG MWD + HRGM

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	0.000	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,900.13	6.00	45.21	1,899.58	11.06	11.15	2.00	2.00	0.00	45.214	
5,500.71	6.00	45.21	5,480.42	276.31	278.38	0.00	0.00	0.00	0.000	
5,800.84	0.00	10.00	5,780.00	287.37	289.53	2.00	-2.00	0.00	180.000	
9,640.54	0.00	10.00	9,619.70	287.37	289.53	0.00	0.00	0.00	0.000	
10,531.14	89.06	179.64	10,192.58	-276.18	293.07	10.00	10.00	0.00	179.640	
23,144.14	89.06	179.64	10,399.50	-12,887.23	372.31	0.00	0.00	0.00	0.000	BHL - Pakse South



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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
1,099.50	0.00	0.00	1,099.50	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,349.50	0.00	0.00	1,349.50	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,700.00	2.00	45.21	1,699.98	1.23	1.24	-1.22	2.00	2.00	0.00
1,800.00	4.00	45.21	1,799.84	4.92	4.95	-4.88	2.00	2.00	0.00
1,900.00	6.00	45.21	1,899.45	11.06	11.14	-10.99	2.00	2.00	0.00
1,900.13	6.00	45.21	1,899.58	11.06	11.15	-10.99	2.00	2.00	0.00
Hold 6.00° Inc at 45.21° Azm									
2,000.00	6.00	45.21	1,998.90	18.42	18.56	-18.31	0.00	0.00	0.00
2,100.00	6.00	45.21	2,098.36	25.79	25.98	-25.62	0.00	0.00	0.00
2,200.00	6.00	45.21	2,197.81	33.16	33.40	-32.94	0.00	0.00	0.00
2,300.00	6.00	45.21	2,297.26	40.52	40.83	-40.26	0.00	0.00	0.00
2,400.00	6.00	45.21	2,396.71	47.89	48.25	-47.58	0.00	0.00	0.00
2,500.00	6.00	45.21	2,496.16	55.26	55.67	-54.90	0.00	0.00	0.00
2,600.00	6.00	45.21	2,595.61	62.62	63.09	-62.22	0.00	0.00	0.00
2,700.00	6.00	45.21	2,695.07	69.99	70.51	-69.54	0.00	0.00	0.00
2,703.31	6.00	45.21	2,698.36	70.23	70.76	-69.79	0.00	0.00	0.00
Base Salt									
2,800.00	6.00	45.21	2,794.52	77.35	77.94	-76.86	0.00	0.00	0.00
2,900.00	6.00	45.21	2,893.97	84.72	85.36	-84.18	0.00	0.00	0.00
3,000.00	6.00	45.21	2,993.42	92.09	92.78	-91.50	0.00	0.00	0.00
3,100.00	6.00	45.21	3,092.87	99.45	100.20	-98.82	0.00	0.00	0.00
3,200.00	6.00	45.21	3,192.32	106.82	107.62	-106.14	0.00	0.00	0.00
3,300.00	6.00	45.21	3,291.78	114.19	115.05	-113.46	0.00	0.00	0.00
3,400.00	6.00	45.21	3,391.23	121.55	122.47	-120.78	0.00	0.00	0.00
3,500.00	6.00	45.21	3,490.68	128.92	129.89	-128.10	0.00	0.00	0.00
3,600.00	6.00	45.21	3,590.13	136.29	137.31	-135.42	0.00	0.00	0.00
3,697.56	6.00	45.21	3,687.16	143.48	144.55	-142.56	0.00	0.00	0.00
Capitan Reef									
3,700.00	6.00	45.21	3,689.58	143.65	144.73	-142.74	0.00	0.00	0.00
3,800.00	6.00	45.21	3,789.04	151.02	152.16	-150.06	0.00	0.00	0.00
3,900.00	6.00	45.21	3,888.49	158.39	159.58	-157.38	0.00	0.00	0.00
4,000.00	6.00	45.21	3,987.94	165.75	167.00	-164.70	0.00	0.00	0.00
4,100.00	6.00	45.21	4,087.39	173.12	174.42	-172.02	0.00	0.00	0.00
4,200.00	6.00	45.21	4,186.84	180.49	181.84	-179.34	0.00	0.00	0.00
4,300.00	6.00	45.21	4,286.29	187.85	189.27	-186.66	0.00	0.00	0.00
4,400.00	6.00	45.21	4,385.75	195.22	196.69	-193.98	0.00	0.00	0.00
4,500.00	6.00	45.21	4,485.20	202.59	204.11	-201.30	0.00	0.00	0.00
4,600.00	6.00	45.21	4,584.65	209.95	211.53	-208.62	0.00	0.00	0.00
4,700.00	6.00	45.21	4,684.10	217.32	218.95	-215.94	0.00	0.00	0.00
4,800.00	6.00	45.21	4,783.55	224.69	226.38	-223.26	0.00	0.00	0.00
4,900.00	6.00	45.21	4,883.00	232.05	233.80	-230.58	0.00	0.00	0.00
5,000.00	6.00	45.21	4,982.46	239.42	241.22	-237.90	0.00	0.00	0.00
5,100.00	6.00	45.21	5,081.91	246.79	248.64	-245.22	0.00	0.00	0.00
5,200.00	6.00	45.21	5,181.36	254.15	256.06	-252.54	0.00	0.00	0.00
5,274.32	6.00	45.21	5,255.27	259.63	261.58	-257.98	0.00	0.00	0.00
Bell Canyon									
5,300.00	6.00	45.21	5,280.81	261.52	263.49	-259.86	0.00	0.00	0.00
5,400.00	6.00	45.21	5,380.26	268.89	270.91	-267.18	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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)
5,500.00	6.00	45.21	5,479.71	276.25	278.33	-274.50	0.00	0.00	0.00
5,500.71	6.00	45.21	5,480.42	276.31	278.38	-274.55	0.00	0.00	0.00
Begin 2.00°/100' Drop									
5,600.00	4.02	45.21	5,579.33	282.41	284.54	-280.62	2.00	-2.00	0.00
5,700.00	2.02	45.21	5,679.18	286.12	288.27	-284.30	2.00	-2.00	0.00
5,715.66	1.70	45.21	5,694.83	286.48	288.63	-284.66	2.00	-2.00	0.00
Cherry Canyon									
5,800.00	0.02	45.21	5,779.16	287.37	289.53	-285.55	2.00	-2.00	0.00
5,800.84	0.00	10.00	5,780.00	287.37	289.53	-285.55	2.00	-2.00	0.00
Begin Vertical Hold									
6,282.65	0.00	0.00	6,261.82	287.37	289.53	-285.55	0.00	0.00	0.00
Brushy Canyon									
7,895.65	0.00	0.00	7,874.82	287.37	289.53	-285.55	0.00	0.00	0.00
Top BSPG Lime									
8,930.65	0.00	0.00	8,909.82	287.37	289.53	-285.55	0.00	0.00	0.00
1st BSPG Ss									
9,240.65	0.00	0.00	9,219.82	287.37	289.53	-285.55	0.00	0.00	0.00
2nd BSPG Carb									
9,463.65	0.00	0.00	9,442.82	287.37	289.53	-285.55	0.00	0.00	0.00
2nd BSPG Ss									
9,640.54	0.00	0.00	9,619.70	287.37	289.53	-285.55	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
9,700.00	5.95	179.64	9,679.06	284.29	289.55	-282.46	10.00	10.00	0.00
9,800.00	15.95	179.64	9,777.11	265.32	289.67	-263.50	10.00	10.00	0.00
9,900.00	25.95	179.64	9,870.38	229.62	289.89	-227.79	10.00	10.00	0.00
9,982.16	34.16	179.64	9,941.44	188.51	290.15	-186.68	10.00	10.00	0.00
3rd BSPG Carb									
10,000.00	35.95	179.64	9,956.04	178.26	290.22	-176.44	10.00	10.00	0.00
10,100.00	45.95	179.64	10,031.48	112.81	290.63	-110.98	10.00	10.00	0.00
10,200.00	55.95	179.64	10,094.40	35.26	291.11	-33.43	10.00	10.00	0.00
10,300.00	65.95	179.64	10,142.90	-52.05	291.66	53.88	10.00	10.00	0.00
10,400.00	75.95	179.64	10,175.51	-146.45	292.26	148.28	10.00	10.00	0.00
10,500.00	85.95	179.64	10,191.22	-245.07	292.88	246.91	10.00	10.00	0.00
10,531.14	89.06	179.64	10,192.58	-276.18	293.07	278.01	10.00	10.00	0.00
LP, Hold 89.06° Inc at 179.64° Azm									
10,600.00	89.06	179.64	10,193.71	-345.03	293.50	346.87	0.00	0.00	0.00
10,700.00	89.06	179.64	10,195.35	-445.01	294.13	446.85	0.00	0.00	0.00
10,800.00	89.06	179.64	10,196.99	-545.00	294.76	546.84	0.00	0.00	0.00
10,900.00	89.06	179.64	10,198.63	-644.98	295.39	646.83	0.00	0.00	0.00
11,000.00	89.06	179.64	10,200.27	-744.97	296.02	746.81	0.00	0.00	0.00
11,100.00	89.06	179.64	10,201.91	-844.95	296.65	846.80	0.00	0.00	0.00
11,200.00	89.06	179.64	10,203.55	-944.94	297.27	946.79	0.00	0.00	0.00
11,300.00	89.06	179.64	10,205.19	-1,044.92	297.90	1,046.77	0.00	0.00	0.00
11,400.00	89.06	179.64	10,206.83	-1,144.91	298.53	1,146.76	0.00	0.00	0.00
11,500.00	89.06	179.64	10,208.47	-1,244.89	299.16	1,246.75	0.00	0.00	0.00
11,600.00	89.06	179.64	10,210.11	-1,344.87	299.79	1,346.73	0.00	0.00	0.00
11,700.00	89.06	179.64	10,211.76	-1,444.86	300.41	1,446.72	0.00	0.00	0.00
11,800.00	89.06	179.64	10,213.40	-1,544.84	301.04	1,546.70	0.00	0.00	0.00
11,900.00	89.06	179.64	10,215.04	-1,644.83	301.67	1,646.69	0.00	0.00	0.00
12,000.00	89.06	179.64	10,216.68	-1,744.81	302.30	1,746.68	0.00	0.00	0.00
12,100.00	89.06	179.64	10,218.32	-1,844.80	302.93	1,846.66	0.00	0.00	0.00
12,200.00	89.06	179.64	10,219.96	-1,944.78	303.56	1,946.65	0.00	0.00	0.00
12,300.00	89.06	179.64	10,221.60	-2,044.77	304.18	2,046.64	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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)
12,400.00	89.06	179.64	10,223.24	-2,144.75	304.81	2,146.62	0.00	0.00	0.00
12,500.00	89.06	179.64	10,224.88	-2,244.74	305.44	2,246.61	0.00	0.00	0.00
12,600.00	89.06	179.64	10,226.52	-2,344.72	306.07	2,346.60	0.00	0.00	0.00
12,700.00	89.06	179.64	10,228.16	-2,444.70	306.70	2,446.58	0.00	0.00	0.00
12,800.00	89.06	179.64	10,229.80	-2,544.69	307.33	2,546.57	0.00	0.00	0.00
12,900.00	89.06	179.64	10,231.44	-2,644.67	307.95	2,646.56	0.00	0.00	0.00
13,000.00	89.06	179.64	10,233.08	-2,744.66	308.58	2,746.54	0.00	0.00	0.00
13,100.00	89.06	179.64	10,234.72	-2,844.64	309.21	2,846.53	0.00	0.00	0.00
13,200.00	89.06	179.64	10,236.36	-2,944.63	309.84	2,946.52	0.00	0.00	0.00
13,300.00	89.06	179.64	10,238.00	-3,044.61	310.47	3,046.50	0.00	0.00	0.00
13,400.00	89.06	179.64	10,239.64	-3,144.60	311.09	3,146.49	0.00	0.00	0.00
13,500.00	89.06	179.64	10,241.28	-3,244.58	311.72	3,246.48	0.00	0.00	0.00
13,600.00	89.06	179.64	10,242.93	-3,344.57	312.35	3,346.46	0.00	0.00	0.00
13,700.00	89.06	179.64	10,244.57	-3,444.55	312.98	3,446.45	0.00	0.00	0.00
13,800.00	89.06	179.64	10,246.21	-3,544.54	313.61	3,546.44	0.00	0.00	0.00
13,900.00	89.06	179.64	10,247.85	-3,644.52	314.24	3,646.42	0.00	0.00	0.00
14,000.00	89.06	179.64	10,249.49	-3,744.50	314.86	3,746.41	0.00	0.00	0.00
14,100.00	89.06	179.64	10,251.13	-3,844.49	315.49	3,846.40	0.00	0.00	0.00
14,200.00	89.06	179.64	10,252.77	-3,944.47	316.12	3,946.38	0.00	0.00	0.00
14,300.00	89.06	179.64	10,254.41	-4,044.46	316.75	4,046.37	0.00	0.00	0.00
14,400.00	89.06	179.64	10,256.05	-4,144.44	317.38	4,146.35	0.00	0.00	0.00
14,500.00	89.06	179.64	10,257.69	-4,244.43	318.00	4,246.34	0.00	0.00	0.00
14,600.00	89.06	179.64	10,259.33	-4,344.41	318.63	4,346.33	0.00	0.00	0.00
14,700.00	89.06	179.64	10,260.97	-4,444.40	319.26	4,446.31	0.00	0.00	0.00
14,800.00	89.06	179.64	10,262.61	-4,544.38	319.89	4,546.30	0.00	0.00	0.00
14,900.00	89.06	179.64	10,264.25	-4,644.37	320.52	4,646.29	0.00	0.00	0.00
15,000.00	89.06	179.64	10,265.89	-4,744.35	321.15	4,746.27	0.00	0.00	0.00
15,100.00	89.06	179.64	10,267.53	-4,844.33	321.77	4,846.26	0.00	0.00	0.00
15,200.00	89.06	179.64	10,269.17	-4,944.32	322.40	4,946.25	0.00	0.00	0.00
15,300.00	89.06	179.64	10,270.81	-5,044.30	323.03	5,046.23	0.00	0.00	0.00
15,400.00	89.06	179.64	10,272.45	-5,144.29	323.66	5,146.22	0.00	0.00	0.00
15,500.00	89.06	179.64	10,274.10	-5,244.27	324.29	5,246.21	0.00	0.00	0.00
15,600.00	89.06	179.64	10,275.74	-5,344.26	324.92	5,346.19	0.00	0.00	0.00
15,700.00	89.06	179.64	10,277.38	-5,444.24	325.54	5,446.18	0.00	0.00	0.00
15,800.00	89.06	179.64	10,279.02	-5,544.23	326.17	5,546.17	0.00	0.00	0.00
15,900.00	89.06	179.64	10,280.66	-5,644.21	326.80	5,646.15	0.00	0.00	0.00
16,000.00	89.06	179.64	10,282.30	-5,744.20	327.43	5,746.14	0.00	0.00	0.00
16,100.00	89.06	179.64	10,283.94	-5,844.18	328.06	5,846.13	0.00	0.00	0.00
16,200.00	89.06	179.64	10,285.58	-5,944.16	328.68	5,946.11	0.00	0.00	0.00
16,300.00	89.06	179.64	10,287.22	-6,044.15	329.31	6,046.10	0.00	0.00	0.00
16,400.00	89.06	179.64	10,288.86	-6,144.13	329.94	6,146.09	0.00	0.00	0.00
16,500.00	89.06	179.64	10,290.50	-6,244.12	330.57	6,246.07	0.00	0.00	0.00
16,600.00	89.06	179.64	10,292.14	-6,344.10	331.20	6,346.06	0.00	0.00	0.00
16,700.00	89.06	179.64	10,293.78	-6,444.09	331.83	6,446.05	0.00	0.00	0.00
16,800.00	89.06	179.64	10,295.42	-6,544.07	332.45	6,546.03	0.00	0.00	0.00
16,900.00	89.06	179.64	10,297.06	-6,644.06	333.08	6,646.02	0.00	0.00	0.00
17,000.00	89.06	179.64	10,298.70	-6,744.04	333.71	6,746.01	0.00	0.00	0.00
17,100.00	89.06	179.64	10,300.34	-6,844.03	334.34	6,845.99	0.00	0.00	0.00
17,200.00	89.06	179.64	10,301.98	-6,944.01	334.97	6,945.98	0.00	0.00	0.00
17,300.00	89.06	179.64	10,303.63	-7,044.00	335.60	7,045.96	0.00	0.00	0.00
17,400.00	89.06	179.64	10,305.27	-7,143.98	336.22	7,145.95	0.00	0.00	0.00
17,500.00	89.06	179.64	10,306.91	-7,243.96	336.85	7,245.94	0.00	0.00	0.00
17,600.00	89.06	179.64	10,308.55	-7,343.95	337.48	7,345.92	0.00	0.00	0.00
17,700.00	89.06	179.64	10,310.19	-7,443.93	338.11	7,445.91	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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)
17,800.00	89.06	179.64	10,311.83	-7,543.92	338.74	7,545.90	0.00	0.00	0.00
17,900.00	89.06	179.64	10,313.47	-7,643.90	339.36	7,645.88	0.00	0.00	0.00
18,000.00	89.06	179.64	10,315.11	-7,743.89	339.99	7,745.87	0.00	0.00	0.00
18,100.00	89.06	179.64	10,316.75	-7,843.87	340.62	7,845.86	0.00	0.00	0.00
18,200.00	89.06	179.64	10,318.39	-7,943.86	341.25	7,945.84	0.00	0.00	0.00
18,300.00	89.06	179.64	10,320.03	-8,043.84	341.88	8,045.83	0.00	0.00	0.00
18,400.00	89.06	179.64	10,321.67	-8,143.83	342.51	8,145.82	0.00	0.00	0.00
18,500.00	89.06	179.64	10,323.31	-8,243.81	343.13	8,245.80	0.00	0.00	0.00
18,600.00	89.06	179.64	10,324.95	-8,343.79	343.76	8,345.79	0.00	0.00	0.00
18,700.00	89.06	179.64	10,326.59	-8,443.78	344.39	8,445.78	0.00	0.00	0.00
18,800.00	89.06	179.64	10,328.23	-8,543.76	345.02	8,545.76	0.00	0.00	0.00
18,900.00	89.06	179.64	10,329.87	-8,643.75	345.65	8,645.75	0.00	0.00	0.00
19,000.00	89.06	179.64	10,331.51	-8,743.73	346.28	8,745.74	0.00	0.00	0.00
19,100.00	89.06	179.64	10,333.15	-8,843.72	346.90	8,845.72	0.00	0.00	0.00
19,200.00	89.06	179.64	10,334.80	-8,943.70	347.53	8,945.71	0.00	0.00	0.00
19,300.00	89.06	179.64	10,336.44	-9,043.69	348.16	9,045.70	0.00	0.00	0.00
19,400.00	89.06	179.64	10,338.08	-9,143.67	348.79	9,145.68	0.00	0.00	0.00
19,500.00	89.06	179.64	10,339.72	-9,243.66	349.42	9,245.67	0.00	0.00	0.00
19,600.00	89.06	179.64	10,341.36	-9,343.64	350.04	9,345.66	0.00	0.00	0.00
19,700.00	89.06	179.64	10,343.00	-9,443.62	350.67	9,445.64	0.00	0.00	0.00
19,800.00	89.06	179.64	10,344.64	-9,543.61	351.30	9,545.63	0.00	0.00	0.00
19,900.00	89.06	179.64	10,346.28	-9,643.59	351.93	9,645.61	0.00	0.00	0.00
20,000.00	89.06	179.64	10,347.92	-9,743.58	352.56	9,745.60	0.00	0.00	0.00
20,100.00	89.06	179.64	10,349.56	-9,843.56	353.19	9,845.59	0.00	0.00	0.00
20,200.00	89.06	179.64	10,351.20	-9,943.55	353.81	9,945.57	0.00	0.00	0.00
20,300.00	89.06	179.64	10,352.84	-10,043.53	354.44	10,045.56	0.00	0.00	0.00
20,400.00	89.06	179.64	10,354.48	-10,143.52	355.07	10,145.55	0.00	0.00	0.00
20,500.00	89.06	179.64	10,356.12	-10,243.50	355.70	10,245.53	0.00	0.00	0.00
20,600.00	89.06	179.64	10,357.76	-10,343.49	356.33	10,345.52	0.00	0.00	0.00
20,700.00	89.06	179.64	10,359.40	-10,443.47	356.96	10,445.51	0.00	0.00	0.00
20,800.00	89.06	179.64	10,361.04	-10,543.46	357.58	10,545.49	0.00	0.00	0.00
20,900.00	89.06	179.64	10,362.68	-10,643.44	358.21	10,645.48	0.00	0.00	0.00
21,000.00	89.06	179.64	10,364.32	-10,743.42	358.84	10,745.47	0.00	0.00	0.00
21,100.00	89.06	179.64	10,365.97	-10,843.41	359.47	10,845.45	0.00	0.00	0.00
21,200.00	89.06	179.64	10,367.61	-10,943.39	360.10	10,945.44	0.00	0.00	0.00
21,300.00	89.06	179.64	10,369.25	-11,043.38	360.72	11,045.43	0.00	0.00	0.00
21,400.00	89.06	179.64	10,370.89	-11,143.36	361.35	11,145.41	0.00	0.00	0.00
21,500.00	89.06	179.64	10,372.53	-11,243.35	361.98	11,245.40	0.00	0.00	0.00
21,600.00	89.06	179.64	10,374.17	-11,343.33	362.61	11,345.39	0.00	0.00	0.00
21,700.00	89.06	179.64	10,375.81	-11,443.32	363.24	11,445.37	0.00	0.00	0.00
21,800.00	89.06	179.64	10,377.45	-11,543.30	363.87	11,545.36	0.00	0.00	0.00
21,900.00	89.06	179.64	10,379.09	-11,643.29	364.49	11,645.35	0.00	0.00	0.00
22,000.00	89.06	179.64	10,380.73	-11,743.27	365.12	11,745.33	0.00	0.00	0.00
22,100.00	89.06	179.64	10,382.37	-11,843.25	365.75	11,845.32	0.00	0.00	0.00
22,200.00	89.06	179.64	10,384.01	-11,943.24	366.38	11,945.31	0.00	0.00	0.00
22,300.00	89.06	179.64	10,385.65	-12,043.22	367.01	12,045.29	0.00	0.00	0.00
22,400.00	89.06	179.64	10,387.29	-12,143.21	367.64	12,145.28	0.00	0.00	0.00
22,500.00	89.06	179.64	10,388.93	-12,243.19	368.26	12,245.27	0.00	0.00	0.00
22,600.00	89.06	179.64	10,390.57	-12,343.18	368.89	12,345.25	0.00	0.00	0.00
22,700.00	89.06	179.64	10,392.21	-12,443.16	369.52	12,445.24	0.00	0.00	0.00
22,800.00	89.06	179.64	10,393.85	-12,543.15	370.15	12,545.22	0.00	0.00	0.00
22,900.00	89.06	179.64	10,395.50	-12,643.13	370.78	12,645.21	0.00	0.00	0.00
23,000.00	89.06	179.64	10,397.14	-12,743.12	371.40	12,745.20	0.00	0.00	0.00
23,100.00	89.06	179.64	10,398.78	-12,843.10	372.03	12,845.18	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 301H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

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)
23,144.14	89.06	179.64	10,399.50	-12,887.23	372.31	12,889.32	0.00	0.00	0.00
TD at 23144.14									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Pakse South Fe - hit/miss target - Shape	0.00	0.00	10,184.50	207.60	289.46	570,047.78	728,377.88	12° 33' 56.34	2017 N 3° 43' 34.32
- plan misses target center by 177.02usft at 10122.83usft MD (10047.02 TVD, 96.09 N, 290.73 E)									
LTP - Pakse South Fe - plan misses target center by 0.01usft at 23054.13usft MD (10398.02 TVD, -12797.24 N, 371.74 E)	0.00	0.00	10,398.02	-12,797.24	371.74	557,042.94	728,460.16	12° 31' 47.65	4500 N 3° 43' 34.23
BHL - Pakse South Fe - plan hits target center - Point	0.00	0.00	10,399.50	-12,887.23	372.31	556,952.95	728,460.73	12° 31' 46.76	4014 N 3° 43' 34.23

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,099.50	1,099.50	Rustler		0.940	179.64	
1,349.50	1,349.50	Salado		0.940	179.64	
2,703.31	2,698.36	Base Salt		0.940	179.64	
3,697.56	3,687.16	Capitan Reef		0.940	179.64	
5,274.32	5,255.27	Bell Canyon		0.940	179.64	
5,715.66	5,694.83	Cherry Canyon		0.940	179.64	
6,282.65	6,261.82	Brushy Canyon		0.940	179.64	
7,895.65	7,874.82	Top BSPG Lime		0.940	179.64	
8,930.65	8,909.82	1st BSPG Ss		0.940	179.64	
9,240.65	9,219.82	2nd BSPG Carb		0.940	179.64	
9,463.65	9,442.82	2nd BSPG Ss		0.940	179.64	
9,982.16	9,941.44	3rd BSPG Carb		0.940	179.64	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,900.13	1,899.58	11.06	11.15	Hold 6.00° Inc at 45.21° Azm
5,500.71	5,480.42	276.31	278.38	Begin 2.00°/100' Drop
5,800.84	5,780.00	287.37	289.53	Begin Vertical Hold
9,640.54	9,619.70	287.37	289.53	KOP2, Begin 10.00°/100' Build
10,531.14	10,192.58	-276.18	293.07	LP, Hold 89.06° Inc at 179.64° Azm
23,144.14	10,399.50	-12,887.23	372.31	TD at 23144.14

Well Name: PAKSE SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW / 32.565191 / -103.7240034	County or Parish/State: LEA / NM
Well Number: 301H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550826	Well Status: Drilling Well	Operator: EARTHSTONE OPERATING LLC

Notice of Intent

Sundry ID: 2705719

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/02/2022	Time Sundry Submitted: 03:10
Date proposed operation will begin: 12/02/2022	

Procedure Description: 30-025-50826 SUNDRY TO CHANGE WELL NUMBER; REVISE SHL, REVISE FTP/LTP/BHL; DEEPEN INTERMEDIATE #2 CASING POINT; REVISE TYPE OF PROD CASING USED WELL NUMBER CHANGE FROM: PAKSE SOUTH FED COM 222H TO: PAKSE SOUTH FED COM 301H SURFACE HOLE LOCATION FROM: C-24-20S-32E; 267 FNL, 1337 FWL TO: D-24-20S-32E; 306 FNL, 369 FWL FIRST TAKE POINT FROM: C-24-20S-32E; 100 FNL, 2310 FWL TO: D-24-20S-32E; 100 FNL, 660 FWL LAST TAKE POINT FROM: N-25-20S-32E; 100 FSL, 2310 FWL TO: E-36-20S-32E; 2541 FNL, 660 FWL BOTTOM HOLE LOCATION FROM: N-25-20S-32E; 10 FSL, 2310 FWL TO: E-36-20S-32E; 2631 FNL, 660 FWL INTERMEDIATE #2 CASING POINT FROM: 4700' TO: 5286' W/ DV TOOL @ 3591' PRODUCTION CASING FROM: 17# P-110 LTC TO: 20# P-110 RY VARN

NOI Attachments

Procedure Description

- ESTE_PAKSE_SOUTH_FED_COM_301H_REV_C102_20221202150911.pdf
- Pakse_South_Fed_Com_301H__Plan_1_11_29_22_20221202150846.pdf
- Pakse_South_Fed_Com_301H__Plan_1_11_29_22_AC_Report_20221202150846.pdf
- ESTE_Energy__Paske_South_Fed_Com_301H____WBD_20221202150846.pdf
- Casing_Calculator____Paske_South_Fed_Com_301H_20221202150846.pdf
- 5.50_20__VAHC_P110_RY_VARN_AC__6.300_Cplg__20221202150802.pdf

Well Name: PARSE SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW / 32.565191 / -103.7240034	County or Parish/State: LEA / NM
Well Number: 301H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550826	Well Status: Drilling Well	Operator: EARTHSTONE OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JENNIFER ELROD	Signed on: DEC 02, 2022 03:09 PM
Name: EARTHSTONE OPERATING LLC	
Title: Senior Regulatory Technician	
Street Address: 1400 WOODLOCH FOREST DR STE 300	
City: THE WOODLANDS	State: TX
Phone: (817) 953-3728	
Email address: JELROD@EARTHSTONEENERGY.COM	

Field

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

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 02/17/2023
Signature: Cody R. Layton	

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 188800

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 188800
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/9/2023