

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

OCD-ARTESIA
REC'D: 8/17/2020

Form C-102

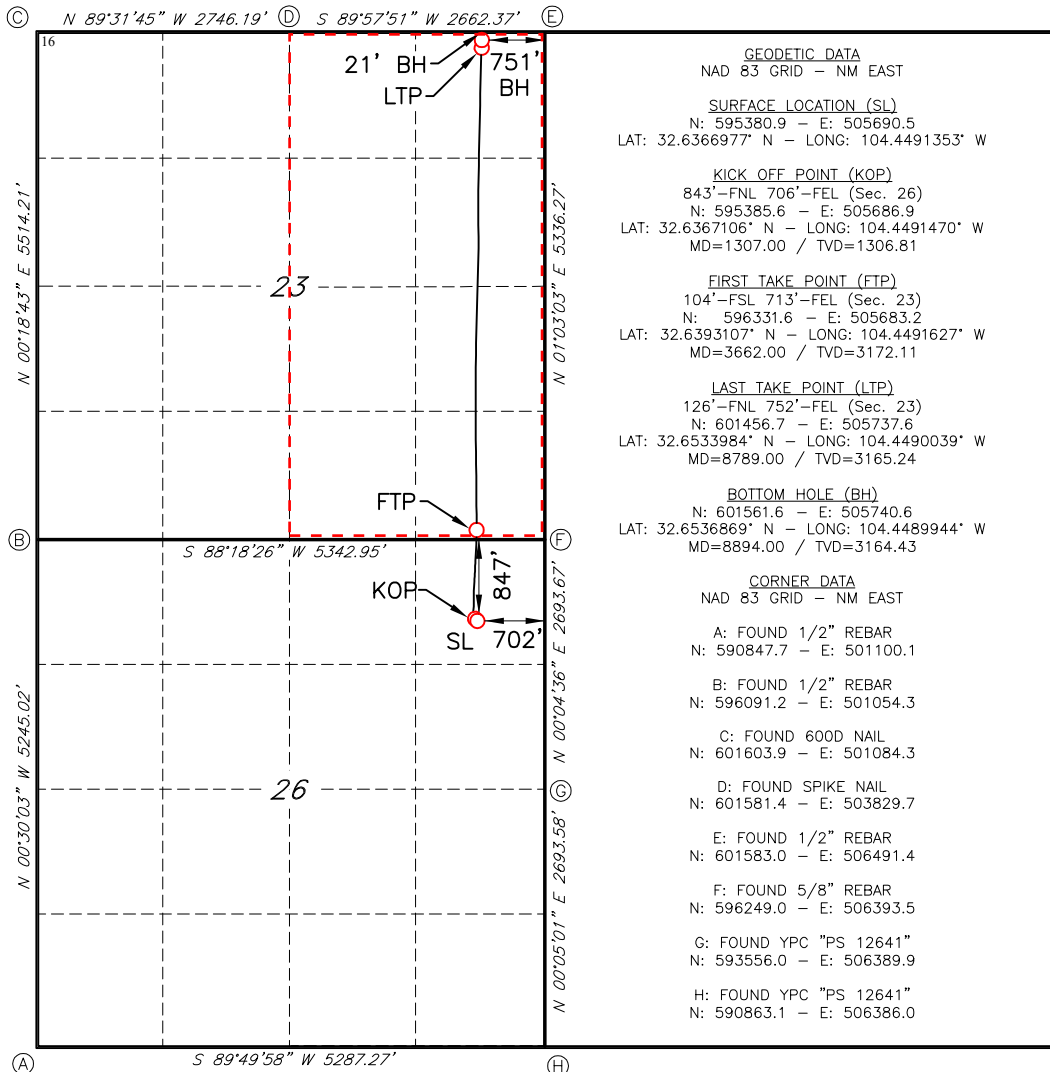
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46627		² Pool Code 97565		³ Pool Name N. Seven Rivers; Glorieta-Yeso					
⁴ Property Code 325897		⁵ Property Name SHELBY 23						⁶ Well Number 5H	
⁷ OGRID NO. 328947		⁸ Operator Name SPUR ENERGY PARTNERS LLC						⁹ Elevation 3415'	
¹⁰ Surface Location									
UL or lot no. A	Section 26	Township 19S	Range 25E	Lot Idn	Feet from the 847	North/South line NORTH	Feet From the 702	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 23	Township 19S	Range 25E	Lot Idn	Feet from the 21	North/South line NORTH	Feet from the 751	East/West line EAST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interest 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.

Sarah Chapman 07/23/2020
Signature Date

Sarah Chapman
Printed Name

schapman@spurepllc.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.

12-11-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

REV: 7-14-2020 AS-DRILL

Job No: LS19121147AD

Intent ☐ As Drilled ☐

API #		
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



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **03/20/20** thru **03/28/20** conduct or supervise the taking of a **MWD Survey** from a depth of **170'** to a depth of **8894'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Spur Energy Partners** for the **Shelby 23 5H** API No. **30-015-46627** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Shelby 23

#5H

OH

Design: OH

End Of Well Report

30 March, 2020

Company: Spur Energy Partners, LLC			Local Co-ordinate Reference:			Well #5H		
Project: Eddy County, NM (NAD 83 - NME)			TVD Reference:			RKB=20' @ 3435.00usft (Akita 57)		
Site: Shelby 23			MD Reference:			RKB=20' @ 3435.00usft (Akita 57)		
Well: #5H			North Reference:			Grid		
Wellbore: OH			Survey Calculation Method:			Minimum Curvature		
Design: OH			Database:			WBDS_SQL_2		
Project			Eddy County, NM (NAD 83 - NME)			Mean Sea Level		
Map System: US State Plane 1983			System Datum:					
Geo Datum: North American Datum 1983								
Map Zone: New Mexico Eastern Zone								
Site			Shelby 23					
Site Position:			Northing:			594,944.60 usft		
From:			Easting:			504,431.00 usft		
Position Uncertainty:			Slot Radius:			13.200 in		
						Latitude:		
						Longitude:		
						Grid Convergence:		
						32.635495		
						-104.453225		
						-0.065 °		
Well			#5H					
Well Position			+N/-S			595,380.90 usft		
			+E/-W			505,690.50 usft		
Position Uncertainty			Wellhead Elevation:			usft		
						Latitude:		
						Longitude:		
						Ground Level:		
						32.636698		
						-104.449135		
						3,415.00 usft		
Wellbore			OH					
Magnetics			Model Name			Field Strength		
			Sample Date			(nT)		
			1/14/2020			60.268		
			IGRF2015			47,822.74364864		
Design			OH					
Audit Notes:								
Version:			1.0			Tie On Depth:		
			Phase:			0.00		
			ACTUAL					
Vertical Section:			Depth From (TVD)			Direction		
			(usft)			(°)		
			0.00			+E/-W		
			+N/-S			(usft)		
			(usft)			0.00		
			0.00			1.04		
Survey Program			Date					
			3/29/2020					
From			To			Description		
(usft)			(usft)			Tool Name		
			Survey (Wellbore)			MWD+IGRF		
			8,894.00			OWSG MWD + IGRF or WMM		
170.00			Survey #1 (OH)					

Company: Spur Energy Partners, LLC				Local Co-ordinate Reference:				Well #5H			
Project: Eddy County, NM (NAD 83 - NME)				TVD Reference:				RKB=20' @ 3435.00usft (Akita 57)			
Site: Shelby 23				MD Reference:				RKB=20' @ 3435.00usft (Akita 57)			
Well: #5H				North Reference:				Grid			
Wellbore: OH				Survey Calculation Method:				Minimum Curvature			
Design: OH				Database:				WBDS_SQL_2			
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.00	0.53	197.90	170.00	-0.75	-0.24	-0.75	170.00	197.90	0.31		0.31
291.00	0.92	166.44	290.99	-2.23	-0.19	-2.23	121.00	177.84	0.45		0.45
412.00	0.66	179.45	411.98	-3.87	0.05	-3.86	121.00	171.87	0.26		0.26
534.00	0.84	180.15	533.97	-5.46	0.05	-5.46	122.00	179.84	0.15		0.15
655.00	0.84	257.40	654.96	-6.54	-0.81	-6.56	121.00	218.78	0.87		0.87
777.00	1.54	326.93	776.93	-5.36	-2.58	-5.41	122.00	303.70	1.21		1.21
898.00	1.76	328.95	897.88	-2.41	-4.43	-2.49	121.00	328.01	0.19		0.19
1,019.00	1.05	11.75	1,018.85	0.27	-5.16	0.17	121.00	344.70	1.01		1.01
1,143.00	0.84	19.48	1,142.83	2.24	-4.63	2.15	124.00	15.18	0.20		0.20
1,212.00	1.06	19.97	1,211.82	3.31	-4.24	3.24	69.00	19.75	0.32		0.32
1,307.00	0.84	33.99	1,306.81	4.72	-3.55	4.65	95.00	26.16	0.34		0.34
1,433.00	1.10	338.26	1,432.80	6.61	-3.48	6.54	126.00	2.07	0.74		0.74
1,559.00	2.20	298.01	1,558.74	8.86	-6.07	8.75	126.00	311.17	1.22		1.22
1,684.00	2.64	292.91	1,683.63	11.11	-10.83	10.91	125.00	295.23	0.39		0.39
1,810.00	2.81	293.44	1,809.49	13.47	-16.34	13.17	126.00	293.18	0.14		0.14
1,936.00	2.90	298.54	1,935.33	16.22	-21.98	15.82	126.00	296.03	0.21		0.21
2,062.00	3.12	303.28	2,061.16	19.63	-27.64	19.12	126.00	301.00	0.26		0.26
2,188.00	3.60	305.31	2,186.94	23.79	-33.74	23.18	126.00	304.37	0.39		0.39
2,251.00	4.97	327.89	2,249.77	27.25	-36.80	26.58	63.00	318.42	3.41		3.41
2,314.00	7.08	341.25	2,312.42	33.24	-39.50	32.52	63.00	335.74	4.00		4.00
2,378.00	10.02	351.45	2,375.71	42.48	-41.60	41.72	64.00	347.22	5.15		5.15
2,440.00	13.14	357.07	2,436.44	54.86	-42.76	54.07	62.00	354.63	5.35		5.35
2,503.00	17.67	0.50	2,497.16	71.58	-43.04	70.79	63.00	359.03	7.33		7.33
2,566.00	22.46	2.96	2,556.32	93.17	-42.34	92.39	63.00	1.87	7.72		7.72
2,629.00	26.37	4.28	2,613.68	119.15	-40.67	118.39	63.00	3.67	6.27		6.27
2,692.00	31.47	4.28	2,668.80	149.52	-38.40	148.80	63.00	4.28	8.10		8.10

Company: Spur Energy Partners, LLC				Local Co-ordinate Reference:				Well #5H			
Project: Eddy County, NM (NAD 83 - NME)				TVD Reference:				RKB=20' @ 3435.00ustf (Akita 57)			
Site: Shelby 23				MD Reference:				RKB=20' @ 3435.00ustf (Akita 57)			
Well: #5H				North Reference:				Grid			
Wellbore: OH				Survey Calculation Method:				Minimum Curvature			
Design: OH				Database:				WBDS_SQL_2			
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)		
2,755.00	37.14	1.12	2,720.83	184.97	-36.80	184.27	63.00		2.59	9.43	
2,817.00	41.89	359.53	2,768.64	224.40	-36.60	223.70	62.00		0.29	7.83	
2,880.00	45.36	0.41	2,814.24	267.86	-36.61	267.15	63.00		359.98	5.59	
2,943.00	48.97	2.08	2,857.07	314.04	-35.59	313.34	63.00		1.27	6.05	
3,004.00	51.78	3.14	2,895.97	360.97	-33.44	360.30	61.00		2.62	4.80	
3,067.00	54.81	3.58	2,933.62	411.38	-30.48	410.76	63.00		3.36	4.84	
3,099.00	56.53	3.22	2,951.67	437.76	-28.91	437.16	32.00		3.40	5.45	
3,130.00	58.64	2.61	2,968.28	463.90	-27.58	463.32	31.00		2.91	7.01	
3,162.00	59.56	2.61	2,984.72	491.32	-26.33	490.77	32.00		2.61	2.87	
3,193.00	60.00	2.61	3,000.32	518.08	-25.11	517.54	31.00		2.61	1.42	
3,224.00	60.53	3.05	3,015.69	544.97	-23.78	544.45	31.00		2.83	2.11	
3,256.00	61.14	3.05	3,031.29	572.87	-22.30	572.37	32.00		3.05	1.91	
3,287.00	61.67	3.31	3,046.13	600.05	-20.79	599.57	31.00		3.18	1.86	
3,318.00	62.20	3.49	3,060.71	627.36	-19.16	626.90	31.00		3.40	1.78	
3,382.00	64.00	3.40	3,089.67	684.32	-15.73	683.93	64.00		3.44	2.82	
3,444.00	68.66	1.99	3,114.55	741.03	-13.08	740.67	62.00		2.68	7.80	
3,506.00	70.51	2.08	3,136.18	799.10	-11.01	798.76	62.00		2.04	2.99	
3,569.00	74.99	2.08	3,154.85	859.21	-8.83	858.91	63.00		2.08	7.11	
3,633.00	80.09	0.59	3,168.66	921.66	-7.38	921.37	64.00		1.33	8.29	
3,696.00	86.33	359.53	3,176.10	984.19	-7.32	983.89	63.00		0.06	10.04	
3,759.00	90.86	359.36	3,177.65	1,047.15	-7.93	1,046.83	63.00		359.44	7.20	
3,822.00	92.40	359.62	3,175.86	1,110.12	-8.49	1,109.78	63.00		359.49	2.48	
3,908.00	90.73	359.09	3,173.51	1,196.08	-9.46	1,195.71	86.00		359.35	2.04	
3,969.00	91.12	359.18	3,172.52	1,257.06	-10.38	1,256.67	61.00		359.13	0.66	
4,095.00	90.20	0.07	3,171.07	1,383.05	-11.21	1,382.62	126.00		359.62	1.01	
4,221.00	90.42	359.71	3,170.39	1,509.05	-11.46	1,508.59	126.00		359.89	0.33	
4,347.00	89.41	359.18	3,170.58	1,635.04	-12.68	1,634.54	126.00		359.45	0.91	

Company: Spur Energy Partners, LLC Project: Eddy County, NM (NAD 83 - NME) Site: Shelby 23 Well: #5H Wellbore: OH Design: OH				Local Co-ordinate Reference: TVD Reference: Well #5H MD Reference: RKB=20' @ 3435.00usft (Akita 57) North Reference: RKB=20' @ 3435.00usft (Akita 57) Survey Calculation Method: Grid Database: Minimum Curvature WBDS_SQL_2						
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
4,472.00	89.45	359.45	3,171.82	1,760.02	-14.17	1,759.48	125.00	359.32	0.22	
4,598.00	88.84	358.83	3,173.70	1,885.99	-16.06	1,885.39	126.00	359.14	0.69	
4,724.00	89.49	359.36	3,175.54	2,011.96	-18.05	2,011.30	126.00	359.10	0.67	
4,849.00	90.07	0.50	3,176.02	2,136.96	-18.21	2,136.28	125.00	359.93	1.02	
4,975.00	90.20	0.07	3,175.72	2,262.96	-17.59	2,262.27	126.00	0.28	0.36	
5,101.00	90.90	359.97	3,174.51	2,388.95	-17.55	2,388.24	126.00	0.02	0.56	
5,227.00	91.08	0.68	3,172.33	2,514.93	-16.83	2,514.21	126.00	0.32	0.58	
5,353.00	90.02	0.15	3,171.12	2,640.92	-15.92	2,640.19	126.00	0.41	0.94	
5,479.00	90.51	1.29	3,170.54	2,766.90	-14.34	2,766.19	126.00	0.72	0.98	
5,605.00	89.89	0.76	3,170.10	2,892.88	-12.08	2,892.19	126.00	1.02	0.65	
5,729.00	88.88	1.12	3,171.43	3,016.86	-10.05	3,016.18	124.00	0.94	0.86	
5,855.00	88.70	1.38	3,174.09	3,142.80	-7.30	3,142.15	126.00	1.25	0.25	
5,981.00	88.57	0.94	3,177.09	3,268.74	-4.75	3,268.11	126.00	1.16	0.36	
6,107.00	89.10	2.08	3,179.66	3,394.66	-1.43	3,394.08	126.00	1.51	1.00	
6,228.00	89.63	2.08	3,181.00	3,515.58	2.96	3,515.05	121.00	2.08	0.44	
6,350.00	89.98	1.47	3,181.41	3,637.52	6.74	3,637.04	122.00	1.77	0.58	
6,471.00	90.86	1.38	3,180.52	3,758.47	9.75	3,758.03	121.00	1.43	0.73	
6,592.00	90.42	0.59	3,179.17	3,879.45	11.83	3,879.02	121.00	0.98	0.75	
6,714.00	90.42	359.62	3,178.28	4,001.44	12.05	4,001.00	122.00	0.11	0.80	
6,835.00	91.16	359.18	3,176.61	4,122.42	10.78	4,121.94	121.00	359.40	0.71	
6,957.00	91.82	359.45	3,173.44	4,244.37	9.33	4,243.84	122.00	359.31	0.58	
7,078.00	91.16	0.15	3,170.29	4,365.33	8.90	4,364.77	121.00	359.80	0.79	
7,201.00	91.16	0.85	3,167.80	4,488.30	9.98	4,487.74	123.00	0.50	0.57	
7,327.00	90.64	1.47	3,165.82	4,614.26	12.53	4,613.72	126.00	1.16	0.64	
7,452.00	90.02	0.94	3,165.10	4,739.23	15.16	4,738.72	125.00	1.20	0.65	
7,578.00	89.98	1.12	3,165.10	4,865.21	17.42	4,864.72	126.00	1.03	0.15	
7,704.00	89.49	1.20	3,165.69	4,991.18	19.97	4,990.72	126.00	1.16	0.39	

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:		Well #5H
Project: Eddy County, NM (NAD 83 - NME)		TVD Reference:		RKB=20' @ 3435.00ust (Akita 57)
Site: Shelby 23		MD Reference:		RKB=20' @ 3435.00ust (Akita 57)
Well: #5H		North Reference:		Grid
Wellbore: OH		Survey Calculation Method:		Minimum Curvature
Design: OH		Database:		WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
7,829.00	89.67	1.12	3,166.60	5,116.15	22.50	5,115.71	125.00	1.16	0.16
7,955.00	90.68	1.20	3,166.22	5,242.12	25.05	5,241.71	126.00	1.16	0.80
8,081.00	90.51	1.64	3,164.91	5,368.08	28.18	5,367.70	126.00	1.42	0.37
8,207.00	90.02	1.12	3,164.33	5,494.04	31.21	5,493.70	126.00	1.38	0.57
8,334.00	90.15	1.03	3,164.14	5,621.01	33.59	5,620.70	127.00	1.08	0.12
8,460.00	89.85	1.64	3,164.14	5,745.98	36.53	5,746.70	126.00	1.33	0.54
8,587.00	89.41	1.91	3,164.96	5,873.92	40.46	5,873.68	127.00	1.77	0.41
8,712.00	89.98	1.99	3,165.62	5,998.84	44.72	5,998.66	125.00	1.95	0.46
8,840.00	90.59	1.56	3,164.99	6,126.78	48.68	6,126.65	128.00	1.78	0.58
8,894.00	90.59	1.56	3,164.43	6,180.75	50.15	6,180.65	54.00	1.56	0.00
TD: Y= 601561.65 / X= 505740.65 - Projection to Bit: 8894.00' MD/ 3164.43' TVD - TD: Latitude = 32.653687 / Longitude = -104.448994 - Final Station Closure Distance= 6180.96 /Direction= 0.46									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
8,894.00	3,164.43	6,180.75	50.15	TD: Y= 601561.65 / X= 505740.65
8,894.00	3,164.43	6,180.75	50.15	Projection to Bit: 8894.00' MD/ 3164.43' TVD
8,894.00	3,164.43	6,180.75	50.15	TD: Latitude = 32.653687 / Longitude = -104.448994
8,894.00	3,164.43	6,180.75	50.15	Final Station Closure Distance= 6180.96 /Direction= 0.46

Checked By: _____	Approved By: _____	Date: _____
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Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Shelby 23
Well: #5H
Wellbore: OH
Rig: Akita 57
Design: OH / 7:46, March 30 2020

WELL DETAILS: #5H

RKB=20' @ 3435.00usft (Akita 57)

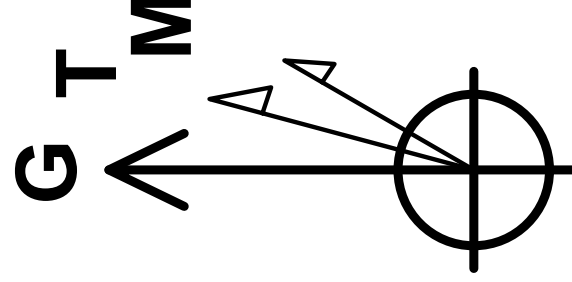
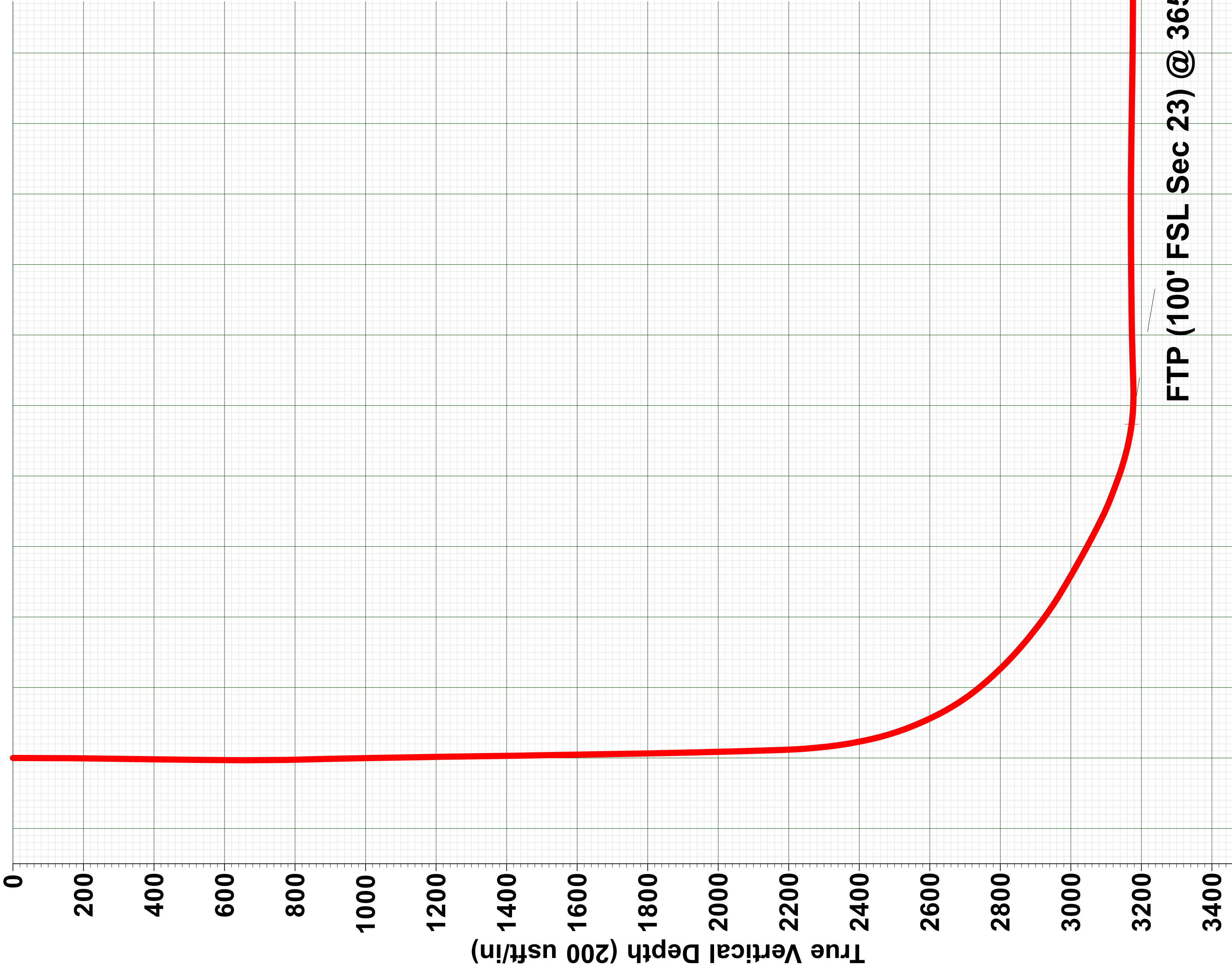
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0.00	0.00	595380.90	505690.50	32.63698	-104.449135

ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure Annotation
8894.00	90.59	1.56	3164.43	6180.75	50.15	6180.65	6219.47 TD: Y= 601561.65 / X= 505740.65
8894.00	90.59	1.56	3164.43	6180.75	50.15	6180.65	6219.47 Projection to Bit: 8894.00' MD/ 3164.43' TVD
8894.00	90.59	1.56	3164.43	6180.75	50.15	6180.65	6219.47 TD: Latitude = 32.653687 / Longitude = -104.448994
8894.00	90.59	1.56	3164.43	6180.75	50.15	6180.65	6219.47 Final Station Closure Distance= 6180.96 / Direction= 0.46

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 8894' MD			50.15	601561.65	32.653687	-104.448994
LTP (100' FNL Sec 23) @ 8814.86' MD			47.98	601482.55	32.653469	-104.449001
FTP (100' FSL Sec 23) @ 3658.77' MD			-7.22	596328.04	32.639301	-104.449162



Azinuths to Grid North
True North: 0.06°
Magnetic North: 7.18°

Magnetic Field
Strength: 47822.7nT
Dip Angle: 60.27°
Date: 1/14/2020
Model: IGRF2015

PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Disclaimer:
All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.

Final Station Closure Distance= 6180.96 / Direction= 0.46

Projection to Bit: 8894.00' MD/ 3164.43' TVD

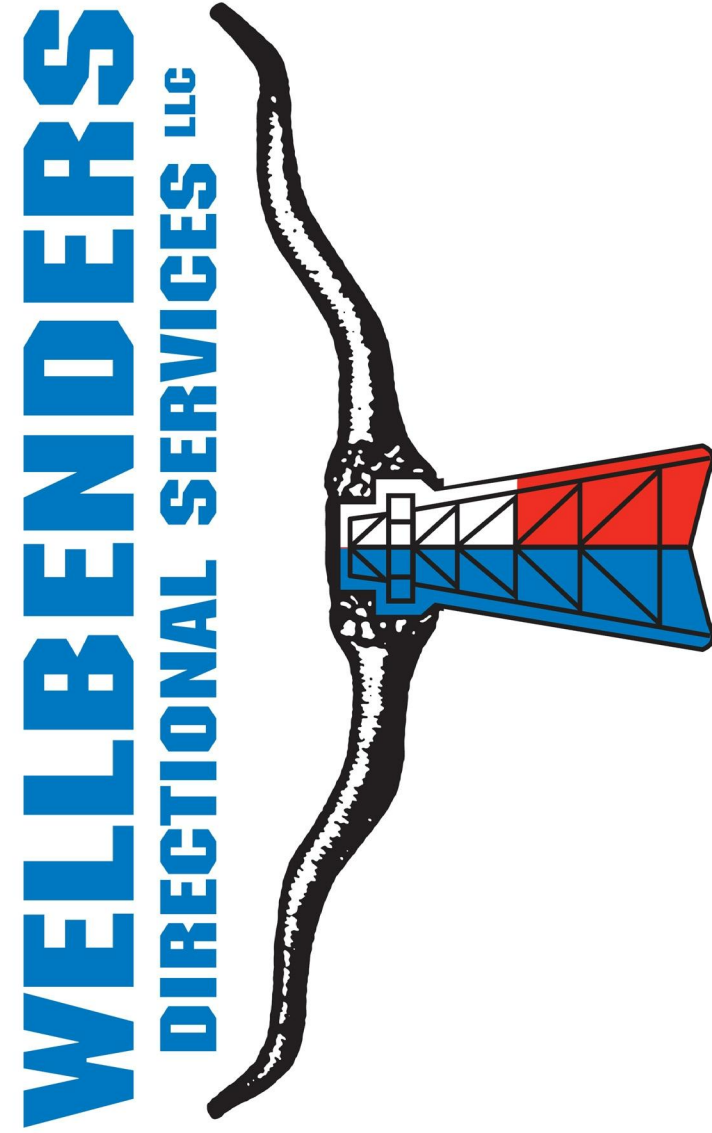
TD: Y= 601561.65 / X= 505740.65

TD: Latitude = 32.653687 / Longitude = -104.448994

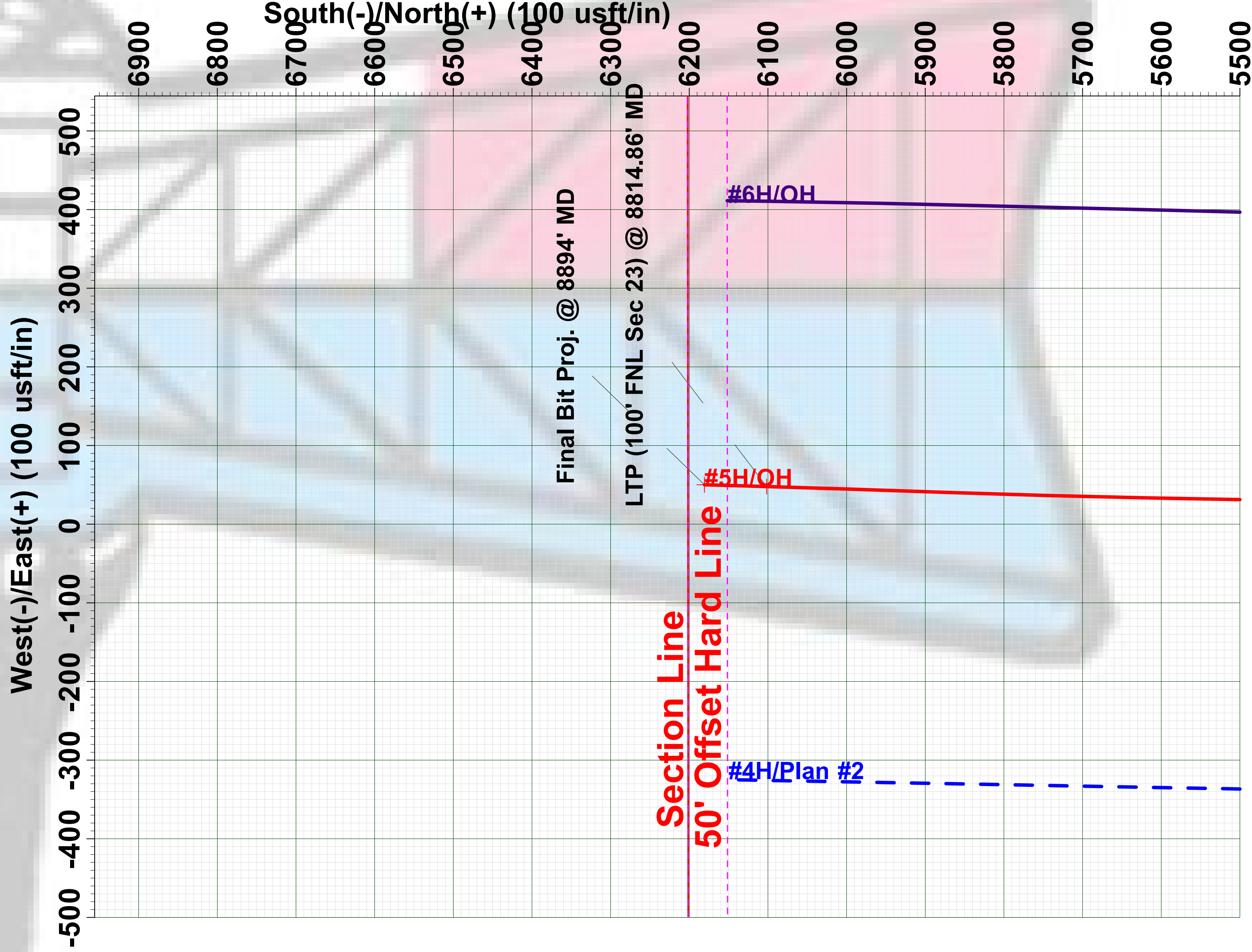
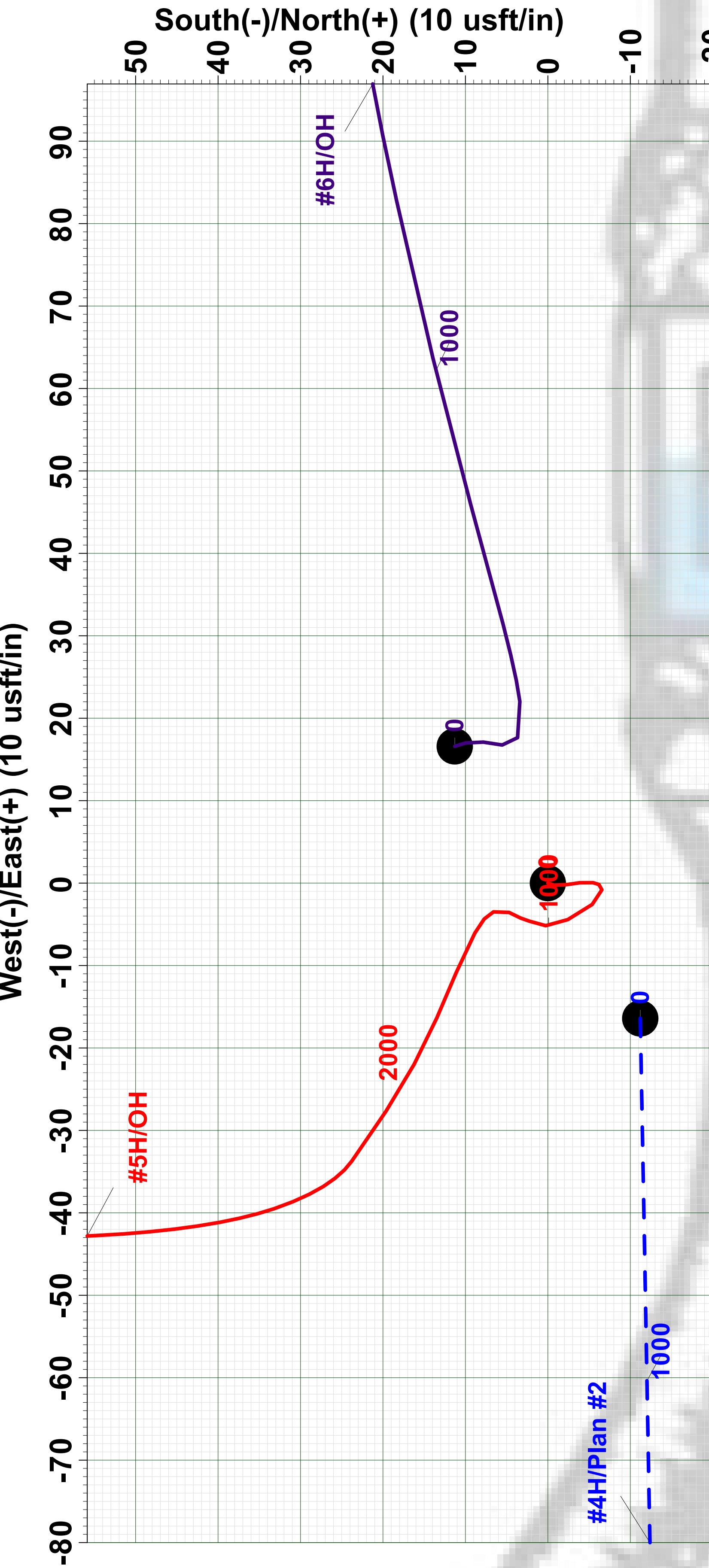
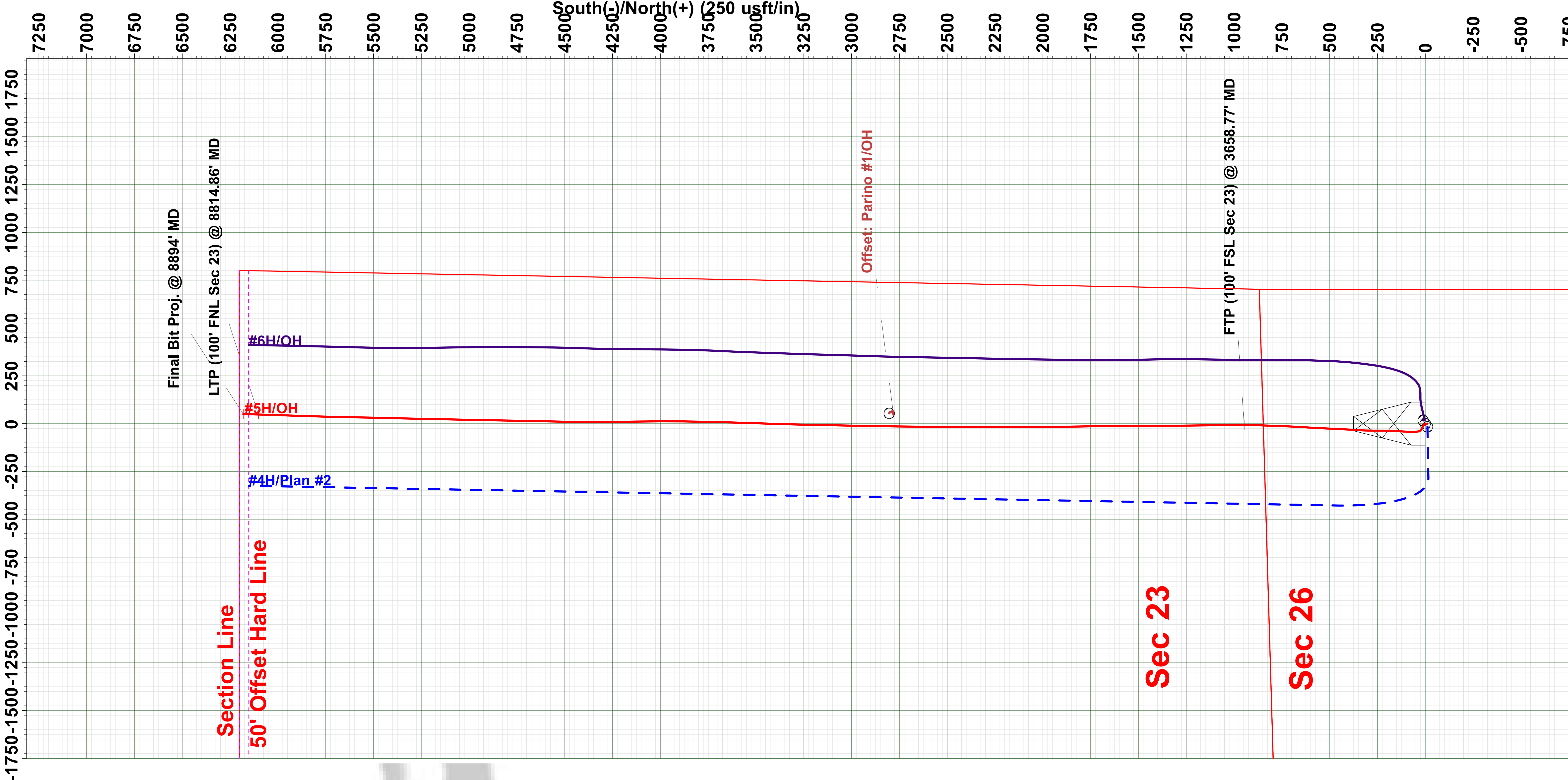
FTP (100' FSL Sec 23) @ 3658.77' MD

LTP (100' FNL Sec 23) @ 8814.86' MD

Final Bit Proj. @ 8894' MD



West(-)/East(+) (250 usft/in)



Design: OH (#5H/OH) Akita 57

Created By: Derek Stephens Date: 7:46, March 30 2020