

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

Rec'd 08/17/2020 - NMOCD 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 30-015-46625		² Pool Code 97565		³ Pool Name N. SEVEN RIVERS; GLORIETA-YESO					
⁴ Property Code 325897		⁵ Property Name SHELBY 23						⁶ Well Number 3H	
⁷ OGRID NO. 328947		⁸ Operator Name SPUR ENERGY PARTNERS LLC						⁹ Elevation 3422'	
¹⁰ Surface Location									
UL or lot no. B	Section 26	Township 19S	Range 25E	Lot Idn	Feet from the 1235	North/South line NORTH	Feet From the 1944	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. B	Section 23	Township 19S	Range 25E	Lot Idn	Feet from the 36	North/South line NORTH	Feet from the 1850	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.

③ N 89°31'45" W 2746.19' ④ S 89°57'51" W 2662.37' ⑤

⑥

GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
N: 594955.9 - E: 504447.5
LAT: 32.6355255° N
LONG: 104.4531717° W

KICK OFF POINT (FTP)
960'-FNL 1925'-FEL (Sec. 26)
N: 595232.0 - E: 504468.6
LAT: 32.6362846° N
LONG: 104.4531044° W
MD=1685.00 / TVD=1652.70

FIRST TAKE POINT (FTP)
102'-FSL 1874'-FEL (Sec. 23)
N: 596295.8 - E: 504523.2
LAT: 32.6392089° N
LONG: 104.4529310° W
MD=3519.00 / TVD=2982.14

LAST TAKE POINT (LTP)
141'-FNL 1855'-FEL (Sec. 23)
N: 601440.6 - E: 504634.0
LAT: 32.6533507° N
LONG: 104.4525897° W
MD=8667.00 / TVD=3024.48

BOTTOM HOLE (BH)
N: 601546.2 - E: 504641.3
LAT: 32.6536410° N
LONG: 104.4525662° W
MD=8773.00 / TVD=3031.19

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND 1/2" REBAR
N: 590847.7 - E: 501100.1

B: FOUND 1/2" REBAR
N: 596091.2 - E: 501054.3

C: FOUND 600D NAIL
N: 601603.9 - E: 501084.3

D: FOUND SPIKE NAIL
N: 601581.4 - E: 503829.7

E: FOUND 1/2" REBAR
N: 601583.0 - E: 506491.4

F: FOUND 5/8" REBAR
N: 596249.0 - E: 506393.5

G: FOUND YPC "PS 12641"
N: 593556.0 - E: 506389.9

H: FOUND YPC "PS 12641"
N: 590863.1 - E: 506386.0

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 07/14/2020
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: 7-10-2020 AS-DRILL

LS19121145AD

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 **03/01/20** thru **03/08/20** conduct or supervise the taking of a **MWD Survey** from a depth of **165'** to a depth of **8773'**; 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 3H** API No. **30-015-46625** 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

#3H

OH

Design: OH

End Of Well Report

09 March, 2020

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3442.00usft (Akita 57)
Site:	Shelby 23	MD Reference:	RKB=20' @ 3442.00usft (Akita 57)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

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

Site	Shelby 23		
Site Position:		Northing:	594,944.60 usft
From:	Map	Easting:	504,431.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.635495
		Longitude:	-104.453225
		Grid Convergence:	-0.065 °

Well	#3H			
Well Position	+N/-S +E/-W	0.00 usft 0.00 usft 0.00 usft	Latitude: Longitude: Ground Level:	32.635526 -104.453172 3,422.00 usft
Position Uncertainty				

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/14/2020	7.116	60.266	47,821.56142051

Design					OH					
Audit Notes:										
Version:		1.0		Phase:		ACTUAL	Tie On Depth:		0.00	
Vertical Section:		Depth From (TVD) (usft)		+N/-S (usft)		+E/-W (usft)		Direction (°)		
		0.00		0.00		0.00		1.03		

Survey Program	Date	3/9/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
165.00	8,773.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM

Company: Spur Energy Partners, LLC			Local Co-ordinate Reference:						
Project: Eddy County, NM (NAD 83 - NME)			TVD Reference: Well #3H						
Site: Shelby 23			MD Reference: RKB=20' @ 3442.00usft (Akita 57)						
Well: #3H			North Reference: RKB=20' @ 3442.00usft (Akita 57)						
Wellbore: OH			Survey Calculation Method: Grid						
Design: OH			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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.00	1.01	318.49	164.99	1.09	-0.96	1.07	165.00	318.49	0.61
287.00	2.99	347.58	286.91	5.00	-2.36	4.96	122.00	340.35	1.77
408.00	3.56	356.99	407.72	11.84	-3.24	11.78	121.00	352.69	0.65
530.00	4.92	25.73	529.39	20.33	-1.16	20.31	122.00	13.71	2.03
651.00	6.37	12.28	649.81	31.57	2.52	31.61	121.00	18.14	1.61
772.00	8.70	10.26	769.76	47.13	5.57	47.23	121.00	11.11	1.94
893.00	11.43	2.96	888.89	68.12	7.82	68.25	121.00	6.12	2.49
1,015.00	14.29	2.26	1,007.81	95.24	9.04	95.39	122.00	2.57	2.35
1,137.00	16.00	7.01	1,125.58	126.98	11.69	127.16	122.00	4.77	1.73
1,189.00	16.09	7.18	1,175.55	141.24	13.46	141.46	52.00	7.10	0.20
1,307.00	16.18	7.97	1,288.90	173.74	17.79	174.03	118.00	7.58	0.20
1,434.00	17.10	0.24	1,410.60	209.94	20.32	210.27	127.00	4.00	1.89
1,559.00	14.73	0.94	1,530.80	244.21	20.66	244.55	125.00	0.56	1.90
1,685.00	14.59	0.50	1,652.70	276.10	21.06	276.43	126.00	0.72	0.14
1,811.00	15.03	12.19	1,774.54	307.95	24.65	308.34	126.00	6.43	2.39
1,937.00	16.66	7.53	1,895.75	341.82	30.46	342.32	126.00	9.74	1.64
2,063.00	17.10	8.06	2,016.32	378.07	35.43	378.65	126.00	7.80	0.37
2,189.00	17.89	7.88	2,136.49	415.58	40.68	416.25	126.00	7.97	0.63
2,252.00	18.11	8.15	2,196.41	434.86	43.39	435.57	63.00	8.02	0.37
2,315.00	19.12	8.15	2,256.11	454.77	46.24	455.53	63.00	8.15	1.60
2,378.00	21.67	8.15	2,315.16	476.50	49.36	477.31	63.00	8.15	4.05
2,441.00	24.88	6.21	2,373.03	501.20	52.44	502.06	63.00	7.12	5.24
2,504.00	27.91	2.87	2,429.45	529.11	54.61	530.00	63.00	4.45	5.35
2,567.00	31.34	0.15	2,484.21	560.23	55.39	561.13	63.00	1.44	5.85
2,630.00	34.68	0.15	2,537.04	594.54	55.48	595.44	63.00	0.15	5.30
2,693.00	39.03	1.47	2,587.43	632.31	56.04	633.22	63.00	0.84	7.02

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:		Well #3H
Project: Eddy County, NM (NAD 83 - NME)		TVD Reference:		RKB=20' @ 3442.00usft (Akita 57)
Site: Shelby 23		MD Reference:		RKB=20' @ 3442.00usft (Akita 57)
Well: #3H		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)	
2,756.00	43.96	3.40	2,634.61	674.00	57.85	674.93	63.00	2.48	8.08	
2,819.00	48.35	3.93	2,678.24	719.33	60.76	720.31	63.00	3.67	6.99	
2,882.00	52.13	2.79	2,718.53	767.67	63.58	768.69	63.00	3.34	6.16	
2,945.00	55.38	2.35	2,755.77	818.42	65.86	819.47	63.00	2.57	5.19	
3,008.00	59.03	1.83	2,789.89	871.33	67.78	872.41	63.00	2.08	5.84	
3,039.00	60.79	1.82	2,805.43	898.14	68.64	899.23	31.00	1.82	5.68	
3,071.00	61.32	1.82	2,820.92	926.13	69.53	927.23	32.00	1.82	1.66	
3,102.00	61.19	2.26	2,835.82	953.29	70.49	954.41	31.00	2.04	1.31	
3,134.00	61.36	2.43	2,851.20	981.33	71.64	982.46	32.00	2.35	0.71	
3,165.00	61.67	2.00	2,865.99	1,008.56	72.70	1,009.70	31.00	2.21	1.58	
3,196.00	61.93	1.73	2,880.64	1,035.86	73.58	1,037.02	31.00	1.86	1.14	
3,228.00	62.20	1.12	2,895.63	1,064.13	74.29	1,065.29	32.00	1.42	1.88	
3,259.00	63.60	0.15	2,909.75	1,091.72	74.59	1,092.88	31.00	0.63	5.31	
3,322.00	68.75	359.27	2,935.19	1,149.33	74.29	1,150.48	63.00	359.70	8.27	
3,385.00	72.66	359.80	2,956.00	1,208.78	73.81	1,209.91	63.00	359.54	6.26	
3,448.00	78.29	0.76	2,971.80	1,269.74	74.12	1,270.87	63.00	0.29	9.06	
3,511.00	83.82	1.64	2,981.59	1,331.93	75.42	1,333.07	63.00	1.20	8.89	
3,574.00	88.35	1.73	2,985.89	1,394.74	77.27	1,395.91	63.00	1.69	7.19	
3,723.00	89.05	2.35	2,989.27	1,543.61	82.57	1,544.84	149.00	2.04	0.63	
3,849.00	89.85	1.47	2,990.48	1,669.53	86.77	1,670.82	126.00	1.91	0.94	
3,975.00	89.93	2.35	2,990.72	1,795.46	90.97	1,796.80	126.00	1.91	0.70	
4,101.00	90.24	1.47	2,990.54	1,921.39	95.17	1,922.79	126.00	1.91	0.74	
4,226.00	90.51	0.59	2,989.72	2,046.36	97.42	2,047.78	125.00	1.03	0.74	
4,352.00	90.95	1.38	2,988.11	2,172.33	99.58	2,173.77	126.00	0.98	0.72	
4,478.00	90.15	1.20	2,986.90	2,298.29	102.42	2,299.76	126.00	1.29	0.65	
4,603.00	89.67	0.07	2,987.10	2,423.28	103.80	2,424.76	125.00	0.63	0.99	
4,729.00	90.07	359.97	2,987.39	2,549.28	103.84	2,550.74	126.00	0.02	0.33	

Company: Spur Energy Partners, LLC			Local Co-ordinate Reference:						
Project: Eddy County, NM (NAD 83 - NME)			Well #3H						
Site: Shelby 23			TVD Reference:						
Well: #3H			MD Reference:						
Wellbore: OH			North Reference:						
Design: OH			Survey Calculation Method:						
			Database:						
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
4,855.00	90.07	0.85	2,987.23	2,675.28	104.74	2,676.73	126.00	0.41	0.70
4,982.00	90.33	1.73	2,986.79	2,802.24	107.60	2,803.73	127.00	1.29	0.72
5,108.00	89.36	1.03	2,987.13	2,928.21	110.63	2,929.72	126.00	1.38	0.95
5,234.00	88.97	359.89	2,988.96	3,054.19	111.65	3,055.70	126.00	0.46	0.96
5,360.00	89.27	359.53	2,990.90	3,180.17	111.01	3,181.65	126.00	359.71	0.37
5,486.00	89.54	359.89	2,992.21	3,306.16	110.37	3,307.61	126.00	359.71	0.36
5,611.00	90.02	0.07	2,992.69	3,431.16	110.32	3,432.59	125.00	359.98	0.41
5,738.00	90.07	0.76	2,992.59	3,558.15	111.24	3,559.58	127.00	0.41	0.55
5,863.00	90.68	1.03	2,991.77	3,683.14	113.19	3,684.58	125.00	0.89	0.53
5,988.00	91.43	1.73	2,989.47	3,808.08	116.20	3,809.55	125.00	1.38	0.82
6,114.00	89.98	0.94	2,987.92	3,934.03	119.13	3,935.53	126.00	1.33	1.31
6,239.00	90.64	1.20	2,987.24	4,059.00	121.47	4,060.53	125.00	1.07	0.57
6,365.00	91.91	1.73	2,984.44	4,184.93	124.69	4,186.49	126.00	1.46	1.09
6,487.00	90.33	2.00	2,982.05	4,306.84	128.66	4,308.45	122.00	1.87	1.31
6,608.00	89.67	0.41	2,982.05	4,427.81	131.20	4,429.45	121.00	1.20	1.42
6,730.00	90.77	1.12	2,981.59	4,549.79	132.83	4,551.44	122.00	0.76	1.07
6,852.00	89.36	0.15	2,981.45	4,671.78	134.18	4,673.44	122.00	0.63	1.40
6,973.00	90.29	0.76	2,981.82	4,792.77	135.14	4,794.43	121.00	0.46	0.92
7,094.00	89.54	1.47	2,982.00	4,913.75	137.50	4,915.43	121.00	1.11	0.85
7,215.00	90.81	1.56	2,981.63	5,034.70	140.70	5,036.42	121.00	1.51	1.05
7,336.00	89.27	0.07	2,981.54	5,155.68	142.41	5,157.41	121.00	0.81	1.77
7,458.00	90.90	0.50	2,981.36	5,277.68	143.01	5,279.40	122.00	0.28	1.38
7,579.00	89.36	1.29	2,981.09	5,398.66	144.90	5,400.39	121.00	0.90	1.43
7,706.00	89.93	1.91	2,981.87	5,525.60	148.45	5,527.38	127.00	1.60	0.66
7,832.00	88.22	1.38	2,983.91	5,651.53	152.07	5,653.35	126.00	1.65	1.42
7,958.00	87.60	2.17	2,988.50	5,777.39	155.97	5,779.26	126.00	1.77	0.80
8,083.00	86.81	1.38	2,994.60	5,902.17	159.83	5,904.09	125.00	1.78	0.89

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:		Well #3H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3442.00usft (Akita 57)	
Site:	Shelby 23	MD Reference:	RKB=20' @ 3442.00usft (Akita 57)	
Well:	#3H	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)
8,209.00	86.73	1.91	3,001.70	6,027.92	163.44	6,029.89	126.00		0.42
8,335.00	87.08	2.70	3,008.50	6,153.64	168.51	6,155.67	126.00		0.68
8,461.00	87.52	2.43	3,014.44	6,279.37	174.14	6,281.48	126.00		0.41
8,587.00	87.47	3.84	3,019.94	6,405.06	181.02	6,407.28	126.00		1.12
8,719.00	86.02	4.02	3,027.44	6,536.53	190.05	6,538.89	132.00		1.11
8,773.00	86.02	4.02	3,031.19	6,590.27	193.83	6,592.69	54.00		0.00
Final Station Closure Distance= 6593.12 /Direction= 1.68 - Projection to Bit: 8773.00' MD/ 3031.19' TVD - TD: Latitude = 32.653641 / Longitude = -104.452566 - TD: Y= 601546.17 / X= 504641.30									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
8,773.00	3,031.19	6,590.27	193.83	Final Station Closure Distance= 6593.12 /Direction= 1.68
8,773.00	3,031.19	6,590.27	193.83	Projection to Bit: 8773.00' MD/ 3031.19' TVD
8,773.00	3,031.19	6,590.27	193.83	TD: Latitude = 32.653641 / Longitude = -104.452566
8,773.00	3,031.19	6,590.27	193.83	TD: Y= 601546.17 / X= 504641.30

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Shelby 23
Well: #3H
Wellbore: OH
Rig: Akita 57
Design: OH / 8:34, March 09 2020

WELL DETAILS: #3H

RKB=20' @ 3442.00usft (Akita 57)

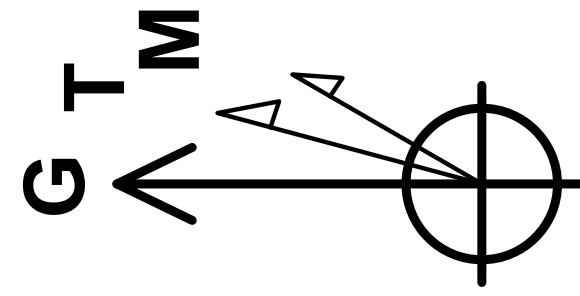
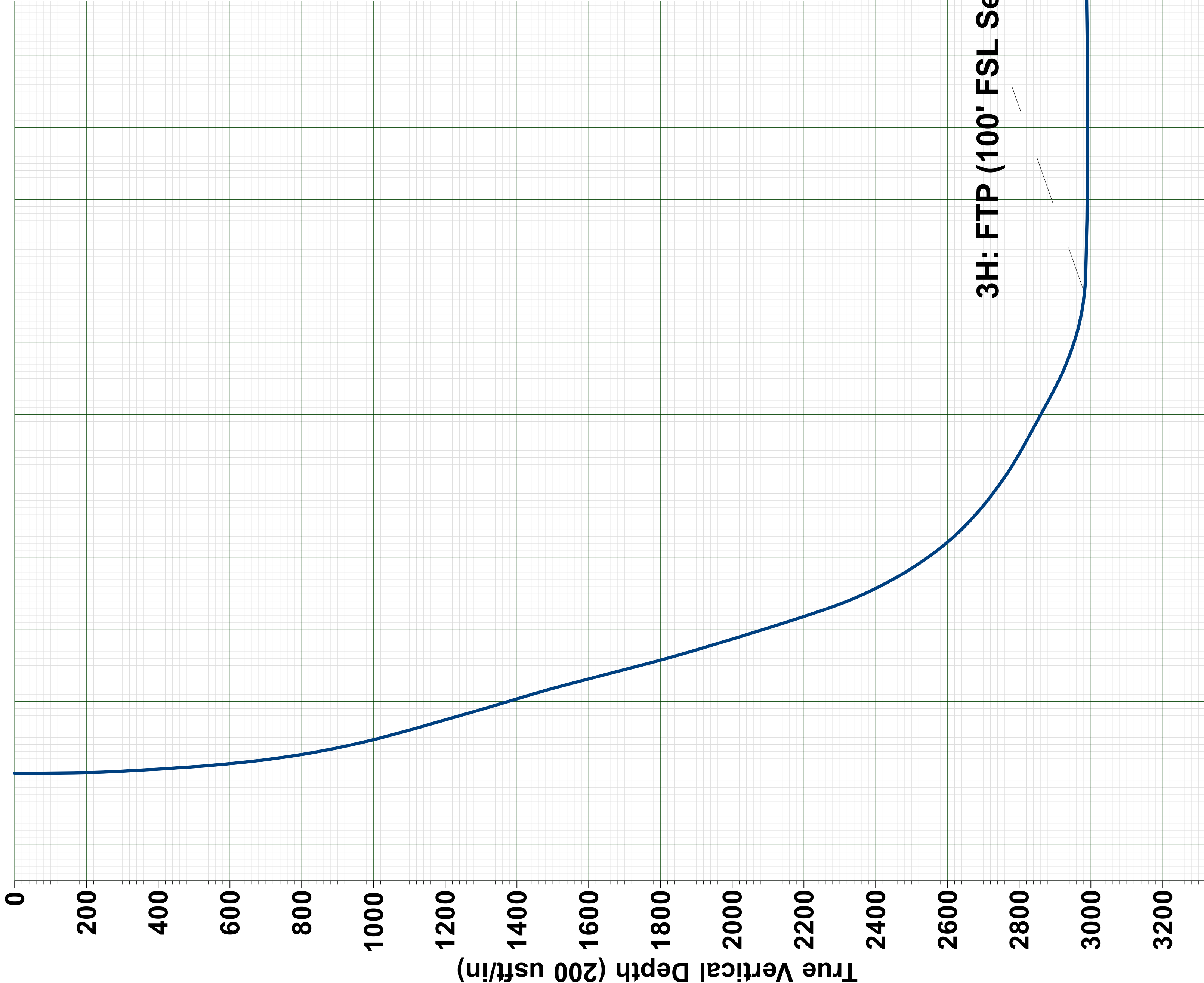
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	594955.90	504447.50	32.635526	-104.453172

ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
8773.00	86.02	4.02	3031.19	6590.27	193.83	6592.69	6598.42	Final Station Closure Distance= 6593.12 /Direction= 1.68
8773.00	86.02	4.02	3031.19	6590.27	193.83	6592.69	6598.42	Projection to Bit: 8773.00' MD/ 3031.19' TVD
8773.00	86.02	4.02	3031.19	6590.27	193.83	6592.69	6598.42	TD: Latitude = 32.653641 / Longitude = -104.452566
8773.00	86.02	4.02	3031.19	6590.27	193.83	6592.69	6598.42	TD: Y= 601546.17 / X= 504641.30

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	TVD	Northing	Easting	Latitude	Longitude
3H: FTP (100' FSL Sec 23) @ 3516.97' MD	2982.21	1337.87	75.59	596293.77	504523.09	32.639203	-104.452931
3H: LTP (100' FNL Sec 23) @ 8708.41' MD	3026.71	6525.99	189.31	601481.89	504636.81	32.653464	-104.452581
Final Bit Proj. @ 8773' MD	3031.19	6590.27	193.80	601546.17	504641.30	32.653641	-104.452566



Azinuths to Grid North
True North: 0.07°
Magnetic North: 7.18°

Magnetic Field
Strength: 47821.6nT
Dip Angle: 60.27°
Date: 1/14/2020
Model: IGRF2015

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

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

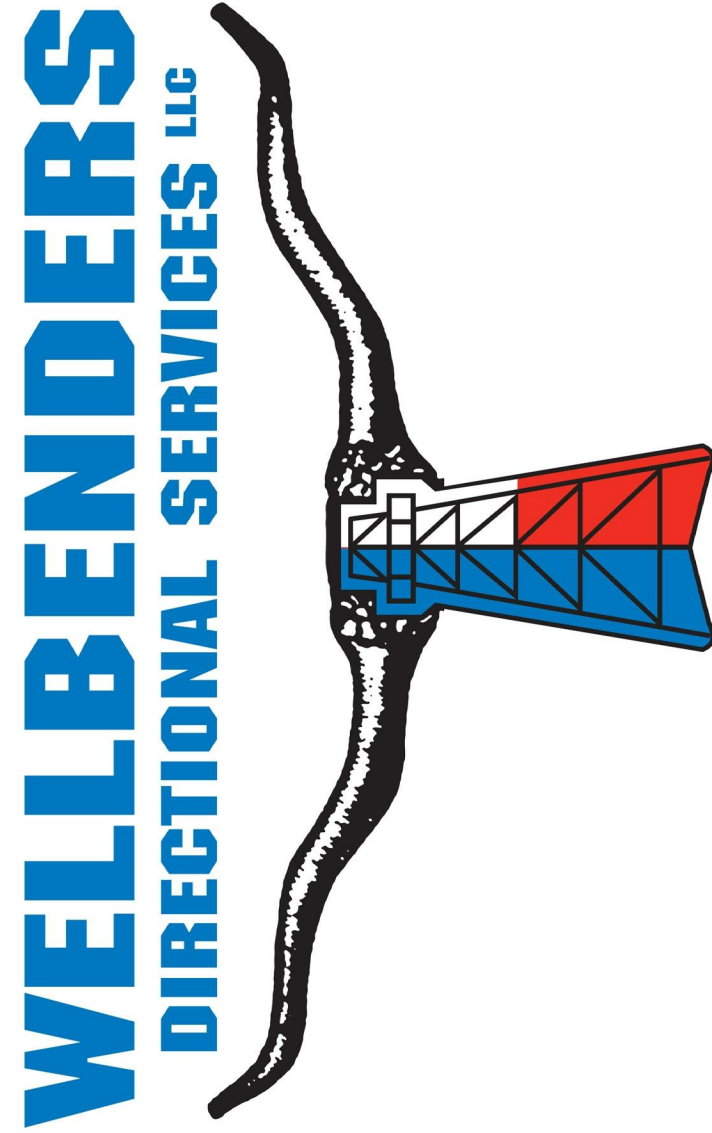
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

3H: FTP (100' FSL Sec 23) @ 3516.97' MD

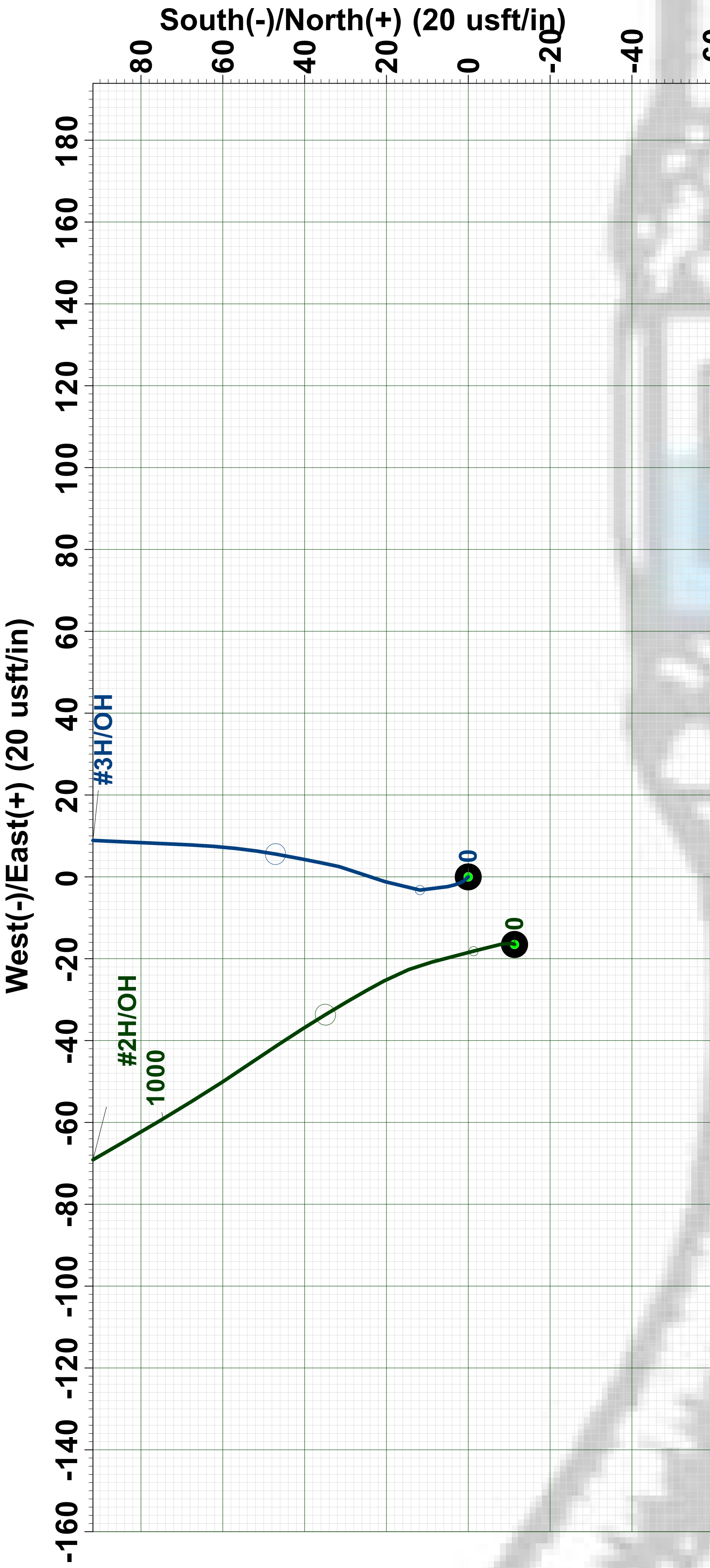
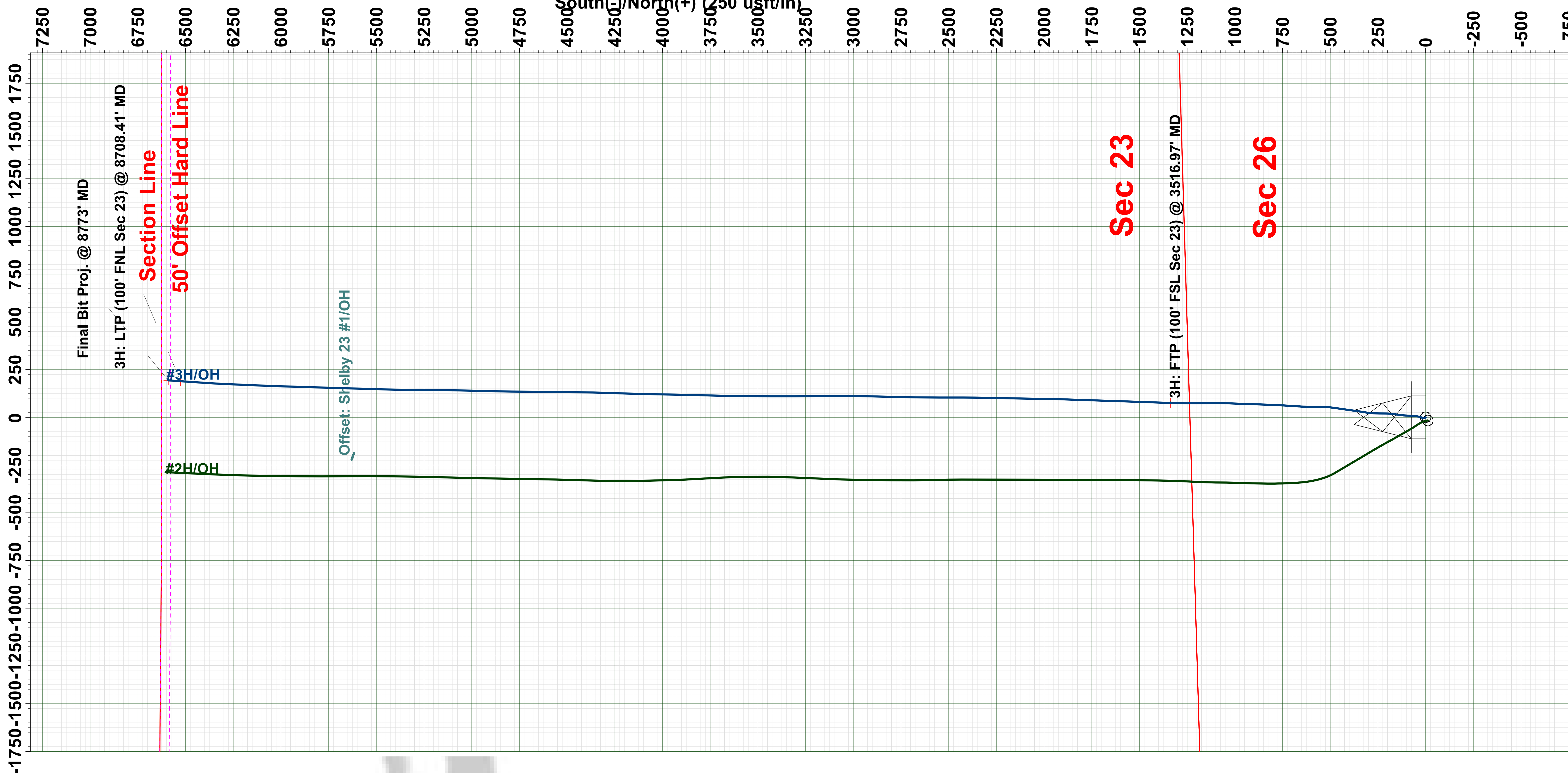
3H: LTP (100' FNL Sec 23) @ 8708.41' MD

Final Bit Proj. @ 8773' MD

Final Station Closure Distance= 6593.12 /Direction= 1.68
Projection to Bit: 8773.00' MD/ 3031.19' TVD
TD: Latitude = 32.653641 / Longitude = -104.452566
TD: Y= 601546.17 / X= 504641.30



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



West(-)/East(+) (100 usft/in)

