

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

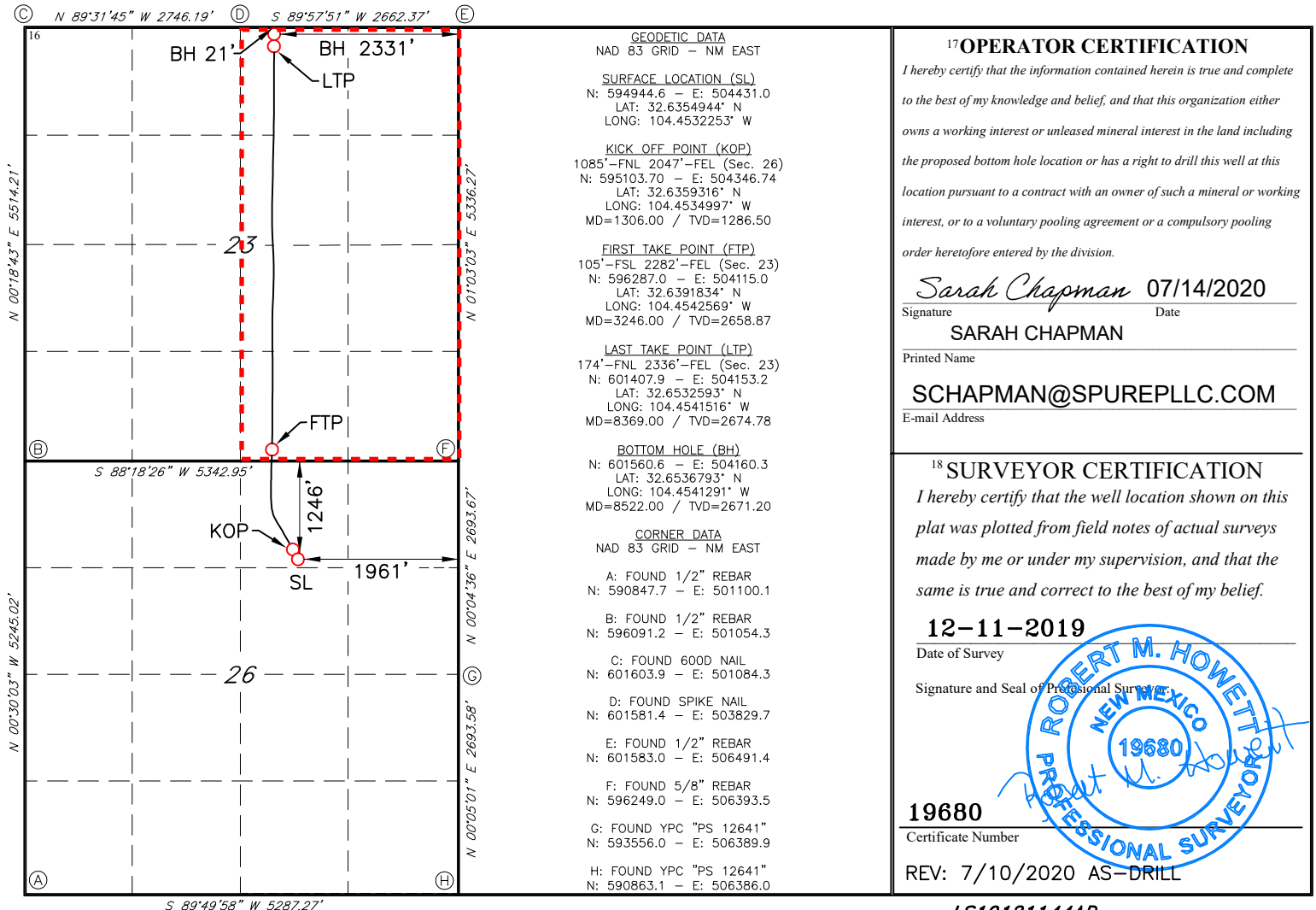
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46624		² Pool Code 97565		³ Pool Name N. SEVEN RIVERS; GLORIETA-YESO					
⁴ Property Code 325897		⁵ Property Name SHELBY 23						⁶ Well Number 2H	
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 1246	North/South line NORTH	Feet From the 1961	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 21	North/South line NORTH	Feet from the 2331	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.



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 **02/22/20** thru **02/29/20** conduct or supervise the taking of a **MWD Survey** from a depth of **162'** to a depth of **8522'**; 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 2H** API No. **30-015-46624** 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

Larry
Wright

Digitally signed
by Larry Wright
Date:
2020.03.24
12:15:44 -05'00'



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Shelby 23

#2H

OH

Design: OH

End Of Well Report

02 March, 2020

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #2H
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:	#2H	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	#2H				
Well Position	+N/-S	0.00 usft	Latitude:	32.635495	
	+E/-W	0.00 usft	Longitude:	-104.453225	
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	3,422.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/14/2020	7.116	60.266	47,821.53727025

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	3/2/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
162.00	8,522.00	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:						
Site: Shelby 23			MD Reference:						
Well: #2H			North Reference:						
Wellbore: OH			Survey Calculation Method:						
Design: OH			Database:						
			Well #2H						
			RKB=20' @ 3442.00usft (Akita 57)						
			RKB=20' @ 3442.00usft (Akita 57)						
			Grid						
			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
162.00	0.44	22.39	162.00	0.58	0.24	0.58	162.00	22.39	0.27
284.00	2.07	350.39	283.97	3.18	0.05	3.18	122.00	355.84	1.40
405.00	4.62	344.07	404.75	10.02	-1.66	9.99	121.00	346.03	2.13
527.00	5.32	346.35	526.29	20.24	-4.34	20.16	122.00	345.29	0.60
648.00	6.64	332.20	646.64	31.88	-8.93	31.72	121.00	338.49	1.63
769.00	9.10	328.60	766.49	46.24	-17.17	45.93	121.00	330.12	2.07
890.00	11.52	325.78	885.53	64.40	-28.96	63.87	121.00	327.03	2.04
1,012.00	13.67	329.21	1,004.59	86.86	-43.19	86.07	122.00	327.64	1.87
1,134.00	16.31	330.79	1,122.42	114.20	-58.93	113.13	122.00	330.07	2.19
1,185.00	16.75	330.88	1,171.32	126.88	-66.00	125.67	51.00	330.84	0.86
1,306.00	18.90	330.09	1,286.50	159.10	-84.26	157.56	121.00	330.46	1.79
1,432.00	22.73	331.41	1,404.26	198.18	-106.09	196.24	126.00	330.81	3.06
1,557.00	26.55	330.53	1,517.85	243.72	-131.40	241.32	125.00	330.94	3.07
1,683.00	29.23	329.48	1,629.21	294.75	-160.89	291.81	126.00	329.98	2.16
1,810.00	31.08	328.95	1,739.02	349.55	-193.54	346.01	127.00	329.21	1.47
1,936.00	30.59	329.92	1,847.21	405.15	-226.39	401.02	126.00	329.43	0.55
2,062.00	28.88	329.04	1,956.61	458.99	-258.11	454.28	126.00	329.49	1.40
2,125.00	29.93	329.39	2,011.50	485.57	-273.94	480.56	63.00	329.22	1.69
2,188.00	31.25	335.80	2,065.74	514.01	-288.65	508.74	63.00	332.66	5.58
2,251.00	33.05	341.52	2,119.09	545.22	-300.80	539.72	63.00	338.73	5.61
2,313.00	35.08	346.26	2,170.46	578.57	-310.39	572.89	62.00	343.95	5.39
2,377.00	37.05	350.31	2,222.20	615.45	-318.00	609.63	64.00	348.33	4.83
2,440.00	40.35	354.09	2,271.37	654.46	-323.30	648.54	63.00	352.27	6.44
2,503.00	43.65	356.46	2,318.18	696.46	-326.75	690.47	63.00	355.31	5.81
2,566.00	47.25	357.95	2,362.37	741.29	-328.92	735.26	63.00	357.23	5.96
2,629.00	51.52	359.01	2,403.37	789.09	-330.17	783.02	63.00	358.50	6.90

Company: Spur Energy Partners, LLC Project: Eddy County, NM (NAD 83 - NME) Site: Shelby 23 Well: #2H Wellbore: OH Design: OH				Local Co-ordinate Reference: TVD Reference: Well #2H MD Reference: RKB=20' @ 3442.00usft (Akita 57) North Reference: RKB=20' @ 3442.00usft (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)	
2,692.00	55.30	0.41	2,440.92	839.66	-330.41	833.58	63.00	359.73	6.26	
2,723.00	57.27	0.68	2,458.13	865.44	-330.16	859.37	31.00	0.55	6.40	
2,755.00	58.07	1.20	2,475.24	892.48	-329.72	886.41	32.00	0.94	2.85	
2,786.00	59.30	1.47	2,491.35	918.95	-329.10	912.89	31.00	1.34	4.04	
2,818.00	59.82	1.91	2,507.56	946.53	-328.29	940.48	32.00	1.69	2.01	
2,849.00	60.18	2.08	2,523.06	973.36	-327.35	967.32	31.00	2.00	1.25	
2,880.00	60.79	1.64	2,538.34	1,000.32	-326.48	994.29	31.00	1.86	2.32	
2,912.00	61.14	1.56	2,553.87	1,028.29	-325.70	1,022.27	32.00	1.60	1.12	
2,943.00	61.54	0.59	2,568.74	1,055.49	-325.19	1,049.47	31.00	1.07	3.03	
3,007.00	65.45	0.76	2,597.29	1,112.75	-324.51	1,106.73	64.00	0.68	6.11	
3,070.00	71.30	2.08	2,620.50	1,171.27	-323.05	1,165.27	63.00	1.43	9.49	
3,132.00	75.60	2.96	2,638.16	1,230.63	-320.43	1,224.67	62.00	2.52	7.07	
3,195.00	79.43	2.26	2,651.77	1,292.06	-317.63	1,286.14	63.00	2.61	6.18	
3,258.00	84.57	1.47	2,660.54	1,354.39	-315.61	1,348.50	63.00	1.86	8.25	
3,320.00	88.09	1.29	2,664.51	1,416.24	-314.12	1,410.36	62.00	1.38	5.68	
3,446.00	90.42	0.33	2,666.15	1,542.20	-312.34	1,536.34	126.00	0.81	2.00	
3,593.00	91.08	359.71	2,664.22	1,689.19	-312.28	1,683.30	147.00	0.02	0.62	
3,719.00	89.71	0.68	2,663.35	1,815.18	-311.86	1,809.28	126.00	0.20	1.33	
3,845.00	89.49	0.33	2,664.23	1,941.17	-310.74	1,935.27	126.00	0.51	0.33	
3,971.00	88.04	0.15	2,666.95	2,067.14	-310.22	2,061.23	126.00	0.24	1.16	
4,096.00	89.10	0.07	2,670.07	2,192.10	-309.98	2,186.17	125.00	0.11	0.85	
4,222.00	90.07	0.33	2,670.98	2,318.09	-309.55	2,312.15	126.00	0.20	0.80	
4,348.00	89.36	359.80	2,671.61	2,444.09	-309.41	2,438.13	126.00	0.07	0.70	
4,474.00	90.24	358.57	2,672.05	2,570.07	-311.20	2,564.06	126.00	359.18	1.20	
4,599.00	89.05	359.53	2,672.82	2,695.05	-313.27	2,688.98	125.00	359.05	1.22	
4,725.00	88.70	0.85	2,675.29	2,821.02	-312.85	2,814.94	126.00	0.19	1.08	
4,851.00	89.32	0.33	2,677.47	2,947.00	-311.56	2,940.92	126.00	0.59	0.64	

Company: Spur Energy Partners, LLC				Local Co-ordinate Reference:					
Project: Eddy County, NM (NAD 83 - NME)				TVD Reference: Well #2H					
Site: Shelby 23				MD Reference: RKB=20' @ 3442.00usft (Akita 57)					
Well: #2H				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)
4,977.00	88.57	2.08	2,679.79	3,072.94	-308.91	3,066.89	126.00	1.20	1.51
5,103.00	89.01	2.52	2,682.45	3,198.81	-303.85	3,192.83	126.00	2.30	0.49
5,230.00	89.19	2.43	2,684.45	3,325.68	-298.37	3,319.78	127.00	2.47	0.16
5,356.00	89.14	1.12	2,686.28	3,451.60	-294.46	3,445.75	126.00	1.78	1.04
5,482.00	88.92	358.74	2,688.42	3,577.57	-294.62	3,571.70	126.00	359.93	1.90
5,607.00	88.70	357.16	2,691.01	3,702.46	-299.09	3,696.49	125.00	357.95	1.28
5,733.00	88.70	356.55	2,693.87	3,828.24	-306.00	3,822.12	126.00	356.86	0.48
5,859.00	89.67	358.22	2,695.66	3,954.09	-311.75	3,947.85	126.00	357.39	1.53
5,985.00	90.29	358.74	2,695.71	4,080.04	-315.09	4,073.72	126.00	358.48	0.64
6,109.00	90.33	359.62	2,695.04	4,204.03	-316.86	4,197.65	124.00	359.18	0.71
6,231.00	90.77	1.03	2,693.87	4,326.02	-316.17	4,319.63	122.00	0.32	1.21
6,353.00	91.52	2.35	2,691.43	4,447.94	-312.58	4,441.60	122.00	1.69	1.24
6,474.00	90.64	1.03	2,689.15	4,568.86	-309.01	4,562.57	121.00	1.69	1.31
6,596.00	90.90	0.76	2,687.51	4,690.83	-307.10	4,684.55	122.00	0.90	0.31
6,717.00	91.56	1.12	2,684.91	4,811.79	-305.12	4,805.52	121.00	0.94	0.62
6,838.00	90.29	1.03	2,682.96	4,932.75	-302.85	4,926.51	121.00	1.07	1.05
6,959.00	89.71	1.29	2,682.96	5,053.72	-300.40	5,047.51	121.00	1.16	0.53
7,081.00	89.98	1.73	2,683.29	5,175.68	-297.18	5,169.50	122.00	1.51	0.42
7,202.00	89.23	1.03	2,684.12	5,296.64	-294.27	5,290.49	121.00	1.38	0.85
7,324.00	89.01	0.68	2,686.00	5,418.61	-292.45	5,412.48	122.00	0.86	0.34
7,449.00	90.29	0.15	2,686.76	5,543.60	-291.54	5,537.47	125.00	0.41	1.11
7,575.00	90.29	359.45	2,686.12	5,669.60	-291.98	5,663.43	126.00	359.80	0.56
7,701.00	90.64	359.97	2,685.10	5,795.59	-292.62	5,789.40	126.00	359.71	0.50
7,827.00	90.90	0.41	2,683.41	5,921.58	-292.20	5,915.37	126.00	0.19	0.41
7,953.00	91.30	0.68	2,680.99	6,047.55	-291.01	6,041.34	126.00	0.54	0.38
8,079.00	90.29	1.47	2,679.24	6,173.51	-288.64	6,167.33	126.00	1.08	1.02
8,205.00	90.86	1.91	2,677.97	6,299.45	-284.93	6,293.31	126.00	1.69	0.57

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:		Well #2H	
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: #2H		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)
8,331.00	91.25	2.96	2,675.65	6,425.31	-279.57	6,419.25	126.00	2.43	0.89
8,464.00	91.38	2.52	2,672.60	6,558.13	-273.22	6,552.16	133.00	2.74	0.34
8,522.00	91.38	2.52	2,671.20	6,616.05	-270.67	6,610.12	58.00	2.52	0.00
Final Station Closure Distance= 6621.59 /Direction= 357.66 - Projection to Bit: 8522.00' MD/ 2671.20' TVD - TD: Latitude = 32.653679 / Longitude = -104.454129 - TD: Y= 601560.65 / X= 504160.33									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
8,522.00	2,671.20	6,616.05	-270.67	Final Station Closure Distance= 6621.59 /Direction= 357.66
8,522.00	2,671.20	6,616.05	-270.67	Projection to Bit: 8522.00' MD/ 2671.20' TVD
8,522.00	2,671.20	6,616.05	-270.67	TD: Latitude = 32.653679 / Longitude = -104.454129
8,522.00	2,671.20	6,616.05	-270.67	TD: Y= 601560.65 / X= 504160.33

Checked By: _____ Approved By: _____ Date: _____



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Shelby 23
Well: #2H
Wellbore: OH
Rig: Akita 57
Design: OH / 8:50, March 02 2020

WELL DETAILS: #2H

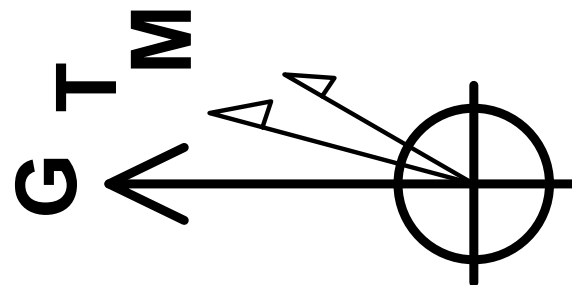
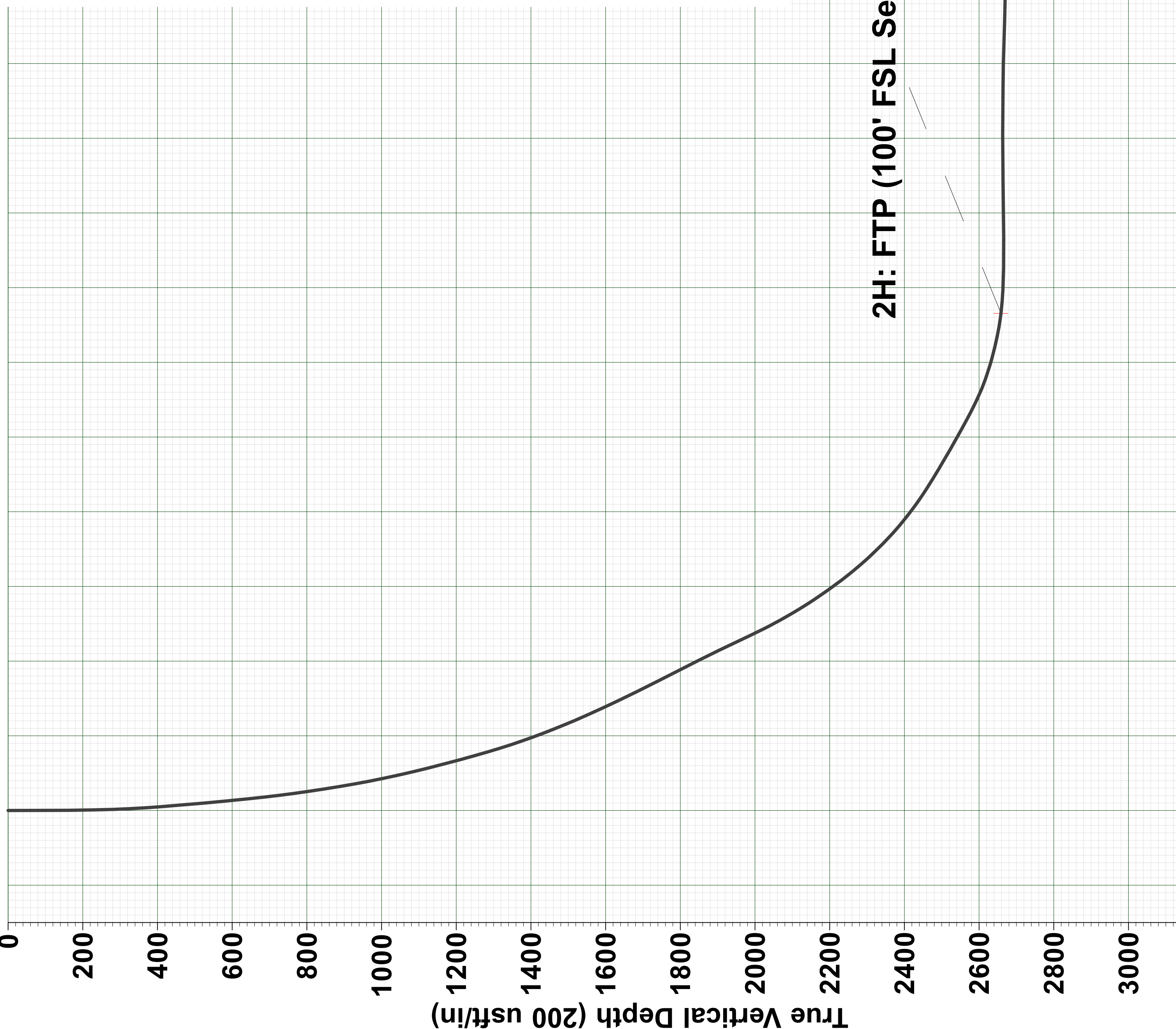
RKB=20' @ 3442.00usft (Akita 57)				
+N/-S	+E/-W	Northing	Easting	Longitude
0.00	0.00	594944.60	504431.00	-104.453225

ANNOTATION DETAILS

MD	Inc	Azi	+E/-W	+N/-S	TVD	Vsect Departure	Annotation
8522.00	91.38	2.52	-270.67	6616.05	-270.67	6610.12	6700.08 Final Station Closure Distance= 6621.59 /Direction= 357.66
8522.00	91.38	2.52	-270.67	6616.05	-270.67	6610.12	6700.08 Projection to Bit: 8522.00' MD/ 2671.20' TVD
8522.00	91.38	2.52	-270.67	6616.05	-270.67	6610.12	6700.08 TD: Latitude = 32.653679 / Longitude = -104.454129
8522.00	91.38	2.52	-270.67	6616.05	-270.67	6610.12	6700.08 TD: Y= 601560.65 / X= 504160.33

DESIGN TARGET DETAILS

Name	Latitude	Longitude
2H: FTP (100' FSL Sec 23) @ 3240.60' MD	32.639169	-104.454257
Final Bit Proj. @ 8522' MD	32.653679	-104.454129
2H: LTP (100' FNL Sec 23) @ 8442.84' MD	32.653462	-104.454140



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

Magnetic Field
Strength: 47821.5nT
Dip Angle: 60.27°
Date: 1/14/2020
Model: IGRF2015

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

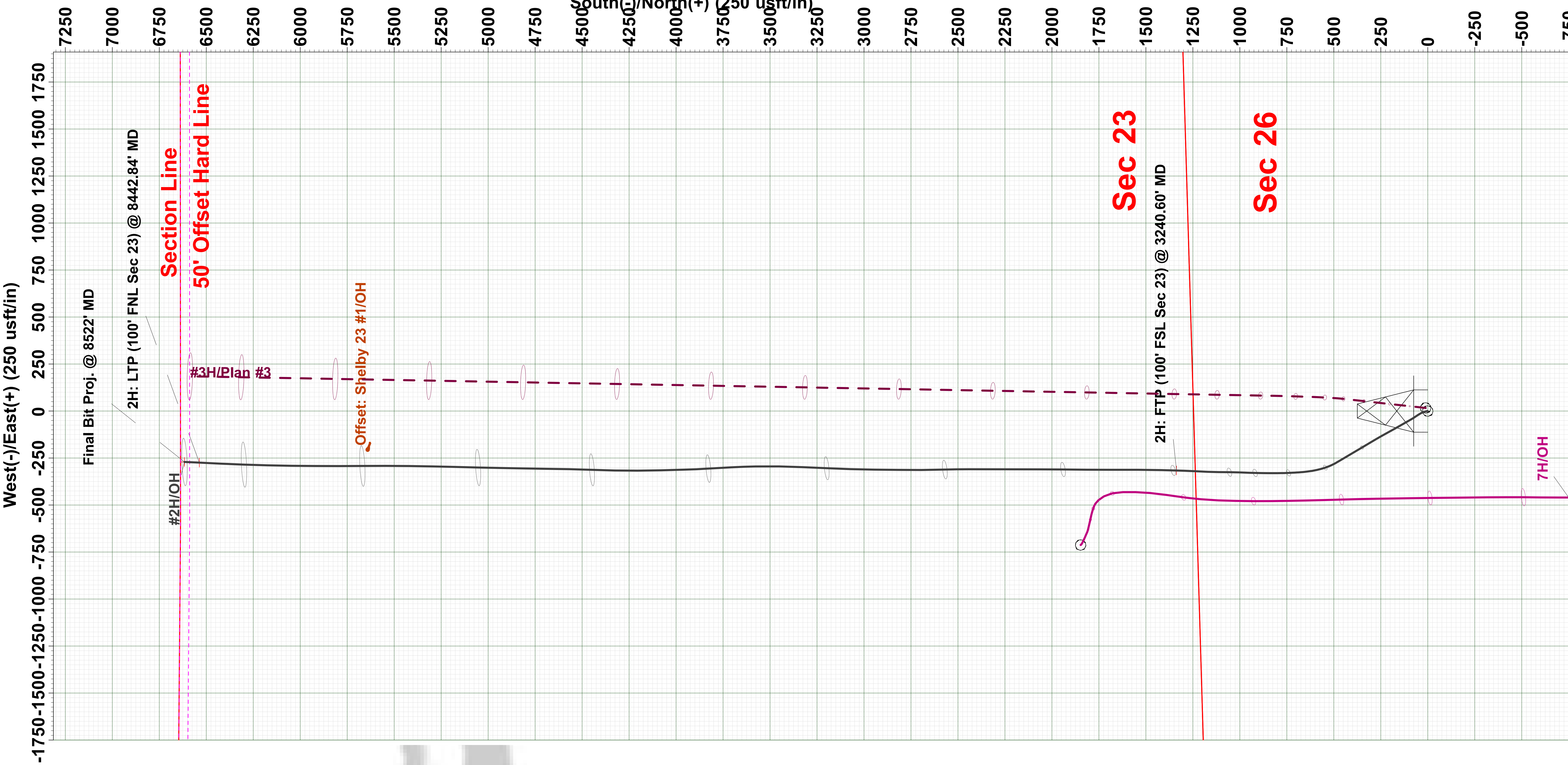
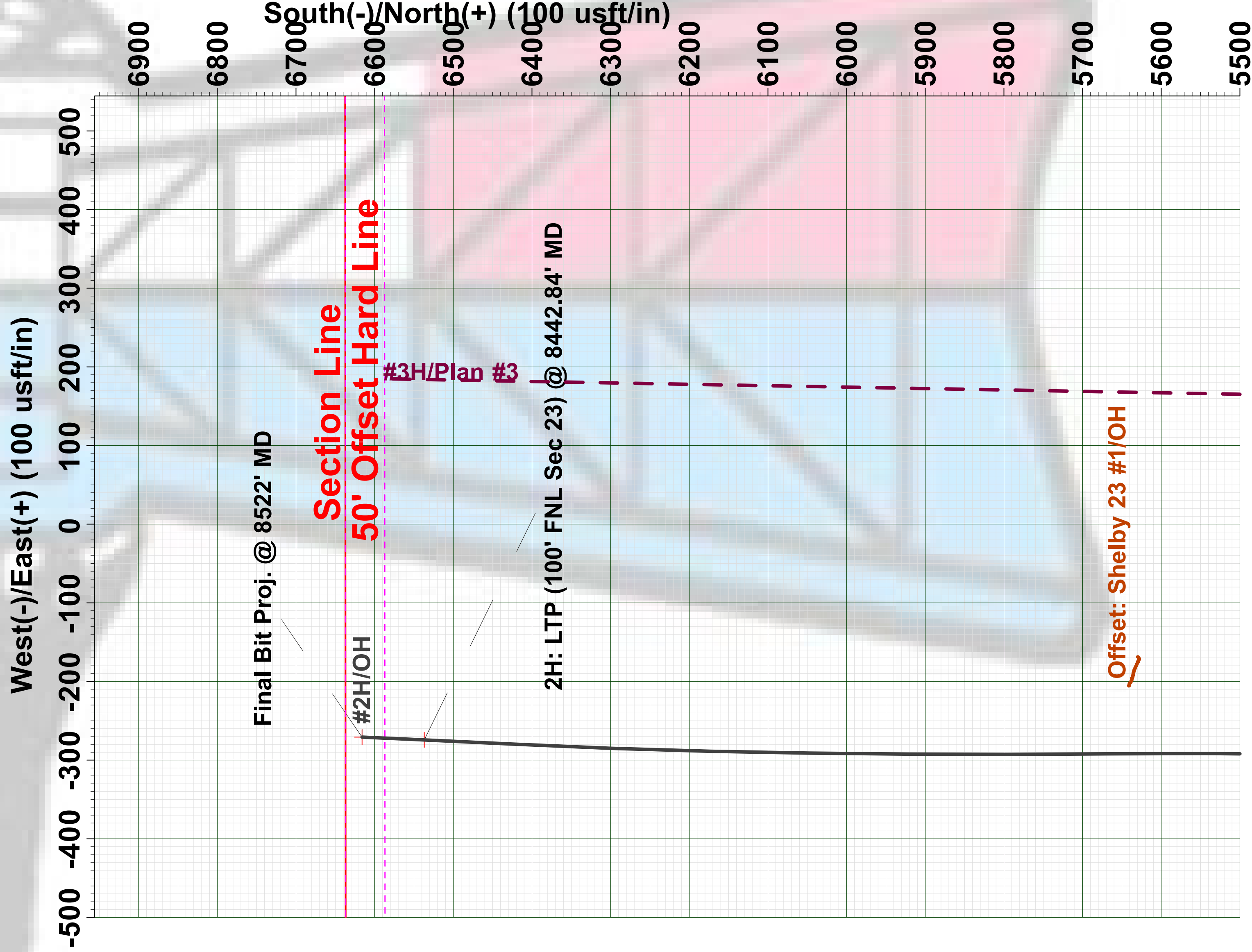
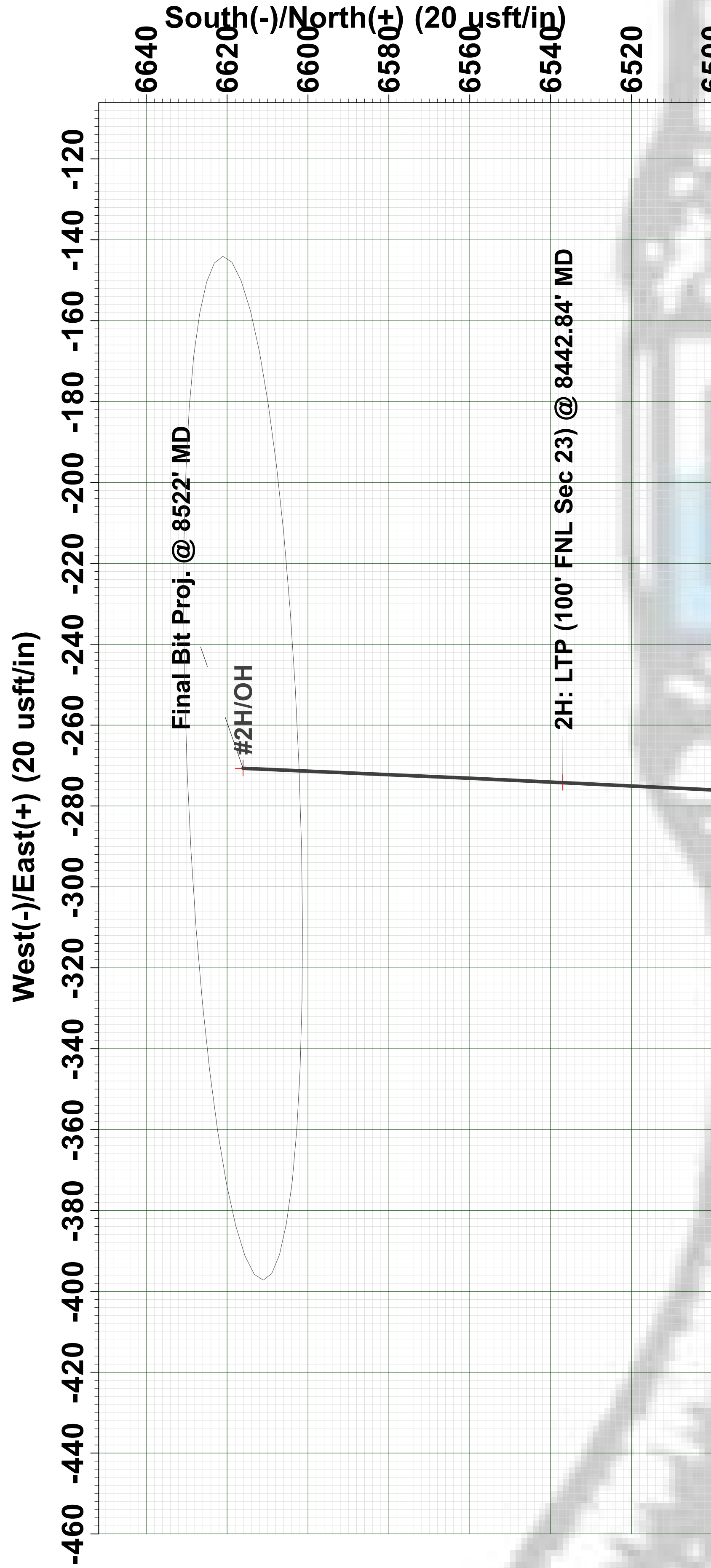
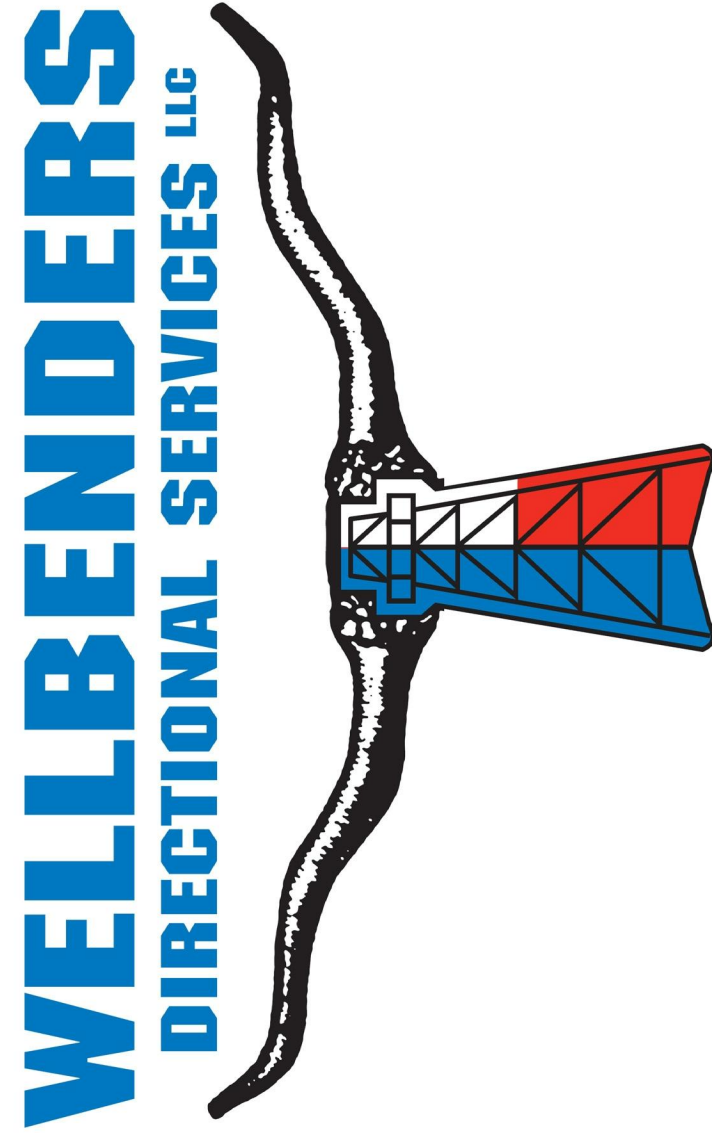
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

2H: FTP (100' FSL Sec 23) @ 3240.60' MD

2H: LTP (100' FNL Sec 23) @ 8442.84' MD

OH

Final Station Closure Distance= 6621.59 /Direction= 357.66
Projection to Bit: 8522.00' MD/ 2671.20' TVD
TD: Latitude = 32.653679 / Longitude = -104.454129
TD: Y= 601560.65 / X= 504160.33



Design: OH (#2H/OH) Akita 57

Created By: Derek Stephens Date: 8:50, March 02 2020

Vertical Section at 1.03° (200 usft/in)