

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address SPUR ENERGY PARTNERS LLC 9655 KATY FREEWAY, SUITE 500 HOUSTON, TX 77024		² OGRID Number 328947
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30 - 0 15-47741	⁵ Pool Name ARTESIA; GLORIETA-YESO (O)	⁶ Pool Code 96830
⁷ Property Code 329863	⁸ Property Name WELCH A 28 STATE	⁹ Well Number 20H

II. 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	27	17S	28E		655	NORTH	930	WEST	EDDY

¹¹ Bottom Hole Location FTP: 1070' FNL 102' FEL LTP: 1090' FNL 141' FWL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	17S	28E		1085	NORTH	51	WEST	EDDY
¹² Lse Code S	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
33479	HOLLYFRONTIER REFINING & MARKETING LLC 2828 N. HARWOOD, SUITE 1300, DALLAS, TX 75201	O
36785	DCP OPERATING COMPANY LP 370 17TH STREET, SUITE 2500, DENVER, CO 80202	G

IV. Well Completion Data

²¹ Spud Date 1/31/2021	²² Ready Date 4/13/2021	²³ TD 3735'V/9337'M	²⁴ PBTD 3735'V/9337'M	²⁵ Perforations 4289'-9246'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8" 36# J-55 BUT	1272'	460 SXS (CIRC TO SURFACE)		
8-3/4"	7" 32# L-80 BK-HT	4120'	1405 SXS (CIRC TO SURFACE)		
8-3/4"	5-1/2" 20# L-80 BK-HT	9337'	1405 SXS (CIRC TO SURFACE)		
	3-1/2" J-55 TUBING	4050'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Sarah Chapman</i>	OIL CONSERVATION DIVISION Approved by: KURT SIMMONS
Printed name: SARAH CHAPMAN	Title: NMOCD, SANTA FE
Title: REGULATORY DIRECTOR	Approval Date: 08/25/2021
E-mail Address: SCHAPMAN@SPUREPLLC.COM	RT C-104 EXPIRES 11/25/2021
Date: 4/13/2021 Phone: 832-930-8613	

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 30-015-47741	² Pool Code 96830	³ Pool Name ARTESIA, GLORIETA-YESO (O)
⁴ Property Code 329863	⁵ Property Name WELCH A 28 STATE	
⁶ Well Number 20H		
⁷ GRID NO. 328947	⁸ Operator Name SPUR ENERGY PARTNERS LLC.	
	⁹ Elevation 3654'	

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	27	17S	28E		655	NORTH	930	WEST	EDDY

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
D	28	17S	28E		1085	NORTH	51	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
160			

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.

GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION (SL) N: 658806.1 - E: 591718.3 LAT: 32.8109797° N LONG: 104.1693487° W FIRST TAKE POINT (FTP) 1070' FNL & 102' FEL - SEC 28 N: 658384.9 - E: 590682.0 LAT: 32.8098263° N LONG: 104.1727240° W MD = 4289' - TVD = 3787.2' LAST TAKE POINT (LTP) 1090' FNL & 141' FWL - SEC 28 N: 658212.4 - E: 585731.0 LAT: 32.8093718° N LONG: 104.1888395° W MD = 9247' - TVD = 3739.8'	BOTTOM HOLE (BH) N: 658214.6 - E: 585641.1 LAT: 32.8093783° N LONG: 104.1891319° W MD = 9337' - TVD = 3735.0' CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N: 654104.0 - E: 585547.5 B: FOUND BRASS CAP "1941" N: 656702.1 - E: 585573.1 C: FOUND BRASS CAP "1941" N: 659297.8 - E: 585602.6 D: FOUND BRASS CAP "1941" N: 659377.1 - E: 588198.9 E: FOUND BRASS CAP "1941" N: 659457.7 - E: 590794.9	F: FOUND BRASS CAP "1941" N: 659466.8 - E: 593406.4 G: FOUND BRASS CAP "1941" N: 659475.1 - E: 596017.9 H: FOUND BRASS CAP "1941" N: 656886.5 - E: 595997.7 I: FOUND BRASS CAP "1941" N: 654298.0 - E: 595977.3 J: FOUND BRASS CAP "1941" N: 654266.7 - E: 593360.1 K: FOUND BRASS CAP "1941" N: 654235.0 - E: 590741.9 L: FOUND BRASS CAP "1941" N: 654169.8 - E: 588139.7 M: FOUND BRASS CAP "1941" N: 656846.0 - E: 590769.0
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The diagram shows a survey plat with a grid labeled A-L horizontally and C-H vertically. Key points are marked: B.H. (Bottom Hole) at approximately (A, D), LTP (Last Take Point) at (A, C), FTP (First Take Point) at (K, C), and S.L. (Surface Location) at (J, D). Distances and bearings are noted: 1085' from B.H. to LTP, 51' from LTP to B.H., 930' from FTP to S.L., and 655' from S.L. to point E. Section numbers 28 and 27 are indicated between vertical grid lines K and J.

17 OPERATOR CERTIFICATION <i>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.</i> <i>Sarah Chapman</i> 4/13/2021 Signature _____ Date _____ SARAH CHAPMAN Printed Name _____ SCHAPMAN@SPUREPLLC.COM E-mail Address _____
18 SURVEYOR CERTIFICATION <i>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.</i> 02/07/2021 Date of Survey _____ Signature and Seal of Professional Surveyor _____ 19680 Certificate Number



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **01/31/21** thru **02/06/21** conduct or supervise the taking of a **MWD Survey** from a depth of **164'** to a depth of **9337'**; 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 **Welch A 28 State 20H** API No. **30-015-467741** **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

*1125 Beach Airport Rd, Conroe, Texas
77301*



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Welch A 28 State

A #20H

Wellbore #1

Survey: Survey #1

Standard Survey Report

07 February, 2021





Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3674.00usft
Site:	Welch A 28 State	MD Reference:	RKB = 20' @ 3674.00usft
Well:	A #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Project	Eddy 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		Welch A 28 State					
Site Position:		Northing:	657,715.70	usft	Latitude:	32.8079833	
From:	Map	Easting:	591,569.60	usft	Longitude:	-104.1698382	
Position Uncertainty:	0.00	usft	Slot Radius:	13.200	in	Grid Convergence:	0.089 °

Well	A #20H					
Well Position	+N/-S	0.00 usft	Northing:	658,806.10 usft	Latitude:	32.8109798
	+E/-W	0.00 usft	Easting:	591,718.30 usft	Longitude:	-104.1693487
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,654.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/21/2020	6.935	60.362	47,835.35210198

Design	Wellbore #1				
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	268.24	

Survey Program	Date 2/7/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
164.00	9,337.00	Survey #1 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Welch A-28 St #20H: SHL 655' NFL & 930' FWL										
164.00	0.62	330.64	164.00	0.77	-0.44	0.41	0.38	0.38	0.00	
285.00	1.45	250.22	284.98	0.83	-2.20	2.17	1.22	0.69	-66.46	
406.00	3.82	215.23	405.85	-2.99	-5.96	6.05	2.28	1.96	-28.92	
525.00	6.24	211.81	524.38	-11.72	-11.66	12.01	2.05	2.03	-2.87	
645.00	7.12	199.77	643.57	-24.26	-17.61	18.35	1.37	0.73	-10.03	
765.00	6.59	195.11	762.72	-37.91	-21.92	23.08	0.64	-0.44	-3.88	
886.00	8.62	193.00	882.65	-53.45	-25.77	27.40	1.69	1.68	-1.74	
1,008.00	8.09	194.49	1,003.35	-70.67	-29.98	32.13	0.47	-0.43	1.22	
1,131.00	8.09	198.89	1,125.13	-87.24	-34.95	37.61	0.50	0.00	3.58	



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3674.00usft
Site:	Welch A 28 State	MD Reference:	RKB = 20' @ 3674.00usft
Well:	A #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,216.00	7.34	194.84	1,209.36	-98.14	-38.27	41.27	1.09	-0.88	-4.76
1,338.00	7.28	199.39	1,330.37	-112.97	-42.84	46.28	0.48	-0.05	3.73
1,464.00	8.74	192.21	1,455.14	-129.86	-47.51	51.48	1.40	1.16	-5.70
1,590.00	10.26	185.07	1,579.41	-150.39	-50.53	55.12	1.52	1.21	-5.67
1,716.00	9.96	185.72	1,703.45	-172.41	-52.60	57.88	0.25	-0.24	0.52
1,840.00	10.42	188.57	1,825.50	-194.17	-55.34	61.28	0.55	0.37	2.30
1,966.00	10.70	193.52	1,949.37	-216.81	-59.78	66.41	0.75	0.22	3.93
2,092.00	8.44	198.46	2,073.61	-236.96	-65.44	72.69	1.91	-1.79	3.92
2,218.00	8.01	201.09	2,198.31	-253.92	-71.53	79.29	0.45	-0.34	2.09
2,344.00	8.14	192.64	2,323.07	-270.82	-76.64	84.92	0.95	0.10	-6.71
2,470.00	9.47	183.56	2,447.59	-289.87	-79.23	88.10	1.52	1.06	-7.21
2,596.00	5.74	196.01	2,572.46	-306.28	-81.62	90.99	3.22	-2.96	9.88
2,721.00	5.01	207.61	2,696.92	-317.12	-85.87	95.57	1.04	-0.58	9.28
2,847.00	6.07	216.38	2,822.33	-327.36	-92.37	102.38	1.07	0.84	6.96
2,861.87	6.68	223.75	2,837.11	-328.62	-93.44	103.49	6.87	4.13	49.57
Welch A-28 St #20H: KOP 2861.44' MD									
2,910.00	9.18	239.72	2,884.78	-332.58	-98.69	108.86	6.87	5.19	33.18
2,973.00	13.17	251.90	2,946.58	-337.35	-109.86	120.17	7.33	6.33	19.33
3,036.00	17.89	254.79	3,007.26	-342.12	-126.03	136.48	7.59	7.49	4.59
3,099.00	22.80	254.50	3,066.32	-347.92	-147.14	157.76	7.80	7.79	-0.46
3,162.00	27.18	253.62	3,123.40	-355.24	-172.72	183.55	6.98	6.95	-1.40
3,225.00	30.81	254.97	3,178.50	-363.49	-202.12	213.19	5.85	5.76	2.14
3,288.00	33.43	256.11	3,231.85	-371.84	-234.55	245.86	4.27	4.16	1.81
3,350.00	36.46	256.50	3,282.67	-380.24	-269.05	280.60	4.90	4.89	0.63
3,413.00	39.78	257.94	3,332.22	-388.83	-306.98	318.77	5.46	5.27	2.29
3,476.00	42.93	259.21	3,379.51	-397.06	-347.77	359.80	5.17	5.00	2.02
3,538.00	45.46	261.53	3,423.96	-404.27	-390.38	402.61	4.84	4.08	3.74
3,601.00	47.95	263.61	3,467.16	-410.18	-435.84	448.23	4.63	3.95	3.30
3,664.00	49.89	264.54	3,508.56	-415.07	-483.07	495.59	3.27	3.08	1.48
3,727.00	52.48	266.52	3,548.05	-418.88	-532.00	544.62	4.78	4.11	3.14
3,790.00	55.92	269.41	3,584.90	-420.67	-583.05	595.70	6.61	5.46	4.59
3,853.00	59.43	270.72	3,618.58	-420.60	-636.28	648.90	5.84	5.57	2.08
3,916.00	61.77	270.84	3,649.51	-419.85	-691.16	703.73	3.72	3.71	0.19
3,979.00	63.97	271.10	3,678.23	-418.90	-747.21	759.73	3.51	3.49	0.41
4,042.00	65.73	271.12	3,705.01	-417.79	-804.23	816.68	2.79	2.79	0.03
4,105.00	67.72	270.91	3,729.90	-416.77	-862.09	874.48	3.17	3.16	-0.33
4,169.00	69.00	268.16	3,753.50	-417.26	-921.57	933.95	4.47	2.00	-4.30
4,232.00	73.58	267.61	3,773.71	-419.46	-981.18	993.60	7.32	7.27	-0.87
4,286.59	78.30	268.55	3,786.97	-421.23	-1,034.09	1,046.54	8.81	8.65	1.72
A #20H FINAL FTP/ 100' FEL @ 4286.59' MD									
4,289.29	78.54	268.59	3,787.51	-421.30	-1,036.74	1,049.19	8.81	8.65	1.68
Welch A-28 St #20H: FTP 100' FEL									
4,295.00	79.03	268.69	3,788.62	-421.43	-1,042.34	1,054.79	8.81	8.65	1.68



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3674.00usft
Site:	Welch A 28 State	MD Reference:	RKB = 20' @ 3674.00usft
Well:	A #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,358.00	84.31	267.82	3,797.74	-423.33	-1,104.62	1,117.10	8.49	8.38	-1.38
4,421.00	89.26	266.65	3,801.28	-426.37	-1,167.43	1,179.97	8.07	7.86	-1.86
4,484.00	91.39	266.40	3,800.92	-430.19	-1,230.31	1,242.94	3.40	3.38	-0.40
4,637.00	92.79	267.21	3,795.34	-438.71	-1,382.96	1,395.78	1.06	0.92	0.53
4,763.00	89.93	268.19	3,792.35	-443.76	-1,508.81	1,521.73	2.40	-2.27	0.78
4,889.00	90.13	268.13	3,792.28	-447.81	-1,634.74	1,647.73	0.17	0.16	-0.05
5,015.00	88.86	268.57	3,793.39	-451.44	-1,760.68	1,773.72	1.07	-1.01	0.35
5,141.00	89.99	267.49	3,794.66	-455.77	-1,886.60	1,899.71	1.24	0.90	-0.86
5,267.00	91.00	267.32	3,793.57	-461.47	-2,012.46	2,025.69	0.81	0.80	-0.13
5,393.00	89.99	268.11	3,792.48	-466.49	-2,138.36	2,151.67	1.02	-0.80	0.63
5,519.00	90.74	268.12	3,791.68	-470.64	-2,264.28	2,277.67	0.60	0.60	0.01
5,645.00	91.81	268.40	3,788.87	-474.46	-2,390.19	2,403.64	0.88	0.85	0.22
5,768.00	90.01	268.97	3,786.92	-477.29	-2,513.14	2,526.61	1.54	-1.46	0.46
5,888.00	89.68	269.17	3,787.24	-479.23	-2,633.12	2,646.60	0.32	-0.27	0.17
6,008.00	90.77	269.35	3,786.77	-480.78	-2,753.11	2,766.58	0.92	0.91	0.15
6,131.00	91.61	268.58	3,784.22	-483.00	-2,876.06	2,889.54	0.93	0.68	-0.63
6,250.00	90.35	268.76	3,782.18	-485.77	-2,995.01	3,008.52	1.07	-1.06	0.15
6,368.00	90.94	268.30	3,780.86	-488.79	-3,112.96	3,126.51	0.63	0.50	-0.39
6,489.00	89.17	266.66	3,780.74	-494.11	-3,233.84	3,247.49	1.99	-1.46	-1.36
6,611.00	90.27	266.55	3,781.34	-501.34	-3,355.62	3,369.43	0.91	0.90	-0.09
6,733.00	91.61	266.78	3,779.33	-508.43	-3,477.39	3,491.37	1.11	1.10	0.19
6,855.00	93.30	266.53	3,774.11	-515.54	-3,599.07	3,613.21	1.40	1.39	-0.20
6,976.00	92.71	268.00	3,767.76	-521.31	-3,719.76	3,734.02	1.31	-0.49	1.21
7,122.00	93.88	268.74	3,759.37	-525.46	-3,865.46	3,879.77	0.95	0.80	0.51
7,248.00	89.65	271.28	3,755.49	-525.43	-3,991.36	4,005.61	3.92	-3.36	2.02
7,373.00	91.30	272.16	3,754.46	-521.68	-4,116.29	4,130.37	1.50	1.32	0.70
7,499.00	87.86	269.55	3,755.38	-519.80	-4,242.25	4,256.21	3.43	-2.73	-2.07
7,624.00	89.17	269.82	3,758.62	-520.49	-4,367.20	4,381.12	1.07	1.05	0.22
7,751.00	88.95	266.35	3,760.70	-524.73	-4,494.09	4,508.09	2.74	-0.17	-2.73
7,877.00	90.88	266.84	3,760.89	-532.21	-4,619.86	4,634.03	1.58	1.53	0.39
8,003.00	90.32	266.91	3,759.57	-539.08	-4,745.67	4,759.99	0.45	-0.44	0.06
8,131.00	90.71	268.07	3,758.42	-544.69	-4,873.54	4,887.97	0.96	0.30	0.91
8,257.00	91.30	267.50	3,756.21	-549.55	-4,999.42	5,013.94	0.65	0.47	-0.45
8,383.00	90.57	266.38	3,754.15	-556.28	-5,125.22	5,139.89	1.06	-0.58	-0.89
8,509.00	90.88	264.95	3,752.56	-565.80	-5,250.85	5,265.75	1.16	0.25	-1.13
8,635.00	91.47	263.90	3,749.98	-578.04	-5,376.23	5,391.44	0.96	0.47	-0.83
8,761.00	91.22	266.44	3,747.02	-588.65	-5,501.73	5,517.22	2.03	-0.20	2.02
8,887.00	90.07	267.09	3,745.60	-595.76	-5,627.52	5,643.16	1.05	-0.91	0.52
9,014.00	90.16	271.27	3,745.34	-597.57	-5,754.48	5,770.12	3.29	0.07	3.29
9,138.00	91.02	270.50	3,744.07	-595.66	-5,878.46	5,893.98	0.93	0.69	-0.62
9,269.00	93.41	271.55	3,739.00	-593.32	-6,009.33	6,024.71	1.99	1.82	0.80
A #20H FINAL LTP/ 100' FWL @ 9287.73' MD - Welch A-28 St #20H: LTP 100' FWL									
9,337.00	93.41	271.55	3,734.96	-591.48	-6,077.18	6,092.48	0.00	0.00	0.00
Final Station Closure Distance= 6105.90 /Direction= 264.44 - TD: Y= 658214.62 / X= 585641.12 - Projection to Bit: 9337.0									



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #20H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB = 20' @ 3674.00usft
Site:	Welch A 28 State	MD Reference:	RKB = 20' @ 3674.00usft
Well:	A #20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
A #20H FINAL Bit Pro - hit/miss target - Shape - Point	0.00	0.00	3,734.96	-591.48	-6,077.18	658,214.62	585,641.12	32.8093783	-104.1891319
A #20H FINAL LTP/ 1L - survey misses target center by 18.73usft at 9269.00usft MD (3739.00 TVD, -593.32 N, -6009.33 E) - Point	0.00	0.00	3,737.89	-592.81	-6,028.02	658,213.29	585,690.28	32.8093745	-104.1889719
A #20H FINAL FTP/ 1 - survey hits target center - Point	0.00	0.00	3,786.97	-421.23	-1,034.09	658,384.87	590,684.21	32.8098263	-104.1727166

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
9,337.00	3,734.96	-591.48	-6,077.18	Final Station Closure Distance= 6105.90 /Direction= 264.44	
9,337.00	3,734.96	-591.48	-6,077.18	TD: Y= 658214.62 / X= 585641.12	
9,337.00	3,734.96	-591.48	-6,077.18	Projection to Bit: 9337.00' MD/ 3734.96' TVD	
9,337.00	3,734.96	-591.48	-6,077.18	TD: Latitude= 32.8093783 / Longitude= -104.1891319	

Checked By: _____ Approved By: _____ Date: _____



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Welch A 28 State
Well: A #20H
Wellbore: Wellbore #1
Rig:
Design: PERMIT / 9:05, February 07 2021

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Welch A-28 St #20H: SHL 655' NFL & 930' FWL	0.00	0.00	0.00	658806.10	591718.30	32.8109797	-104.1693487
PLAN Welch A-28 St #20H: KOP 2861.44' MD	2837.28	-328.93	-91.54	658477.17	591626.76	32.8100760	-104.1696483
A #20H FINAL Bit Proj @ 9337' MD (51' FWL)	3734.96	-591.48	-6077.18	658214.62	585641.12	32.8093783	-104.1891319
A #20H FINAL LTP/ 100' FWL @ 9287.73' MD	3737.89	-592.81	-6028.02	658213.29	585690.28	32.8093745	-104.1889719
PLAN Welch A-28 St #20H: PBHL 1080' NFL & 50' FWL	3750.00	-586.50	-6078.00	658219.60	585640.30	32.8093920	-104.1891345
PLAN Welch A-28 St #20H: LTP 100' FWL	3750.50	-584.90	-6028.00	658221.20	585690.30	32.8093962	-104.1889718
A #20H FINAL FTP/ 100' FEL @ 4286.59' MD	3786.97	-421.23	-1034.09	658384.87	590684.21	32.8098263	-104.1727166
PLAN Welch A-28 St #20H: FTP 100' FEL	3800.00	-431.10	-1034.00	658375.00	590684.30	32.8097992	-104.1727164

WELL DETAILS: A #20H

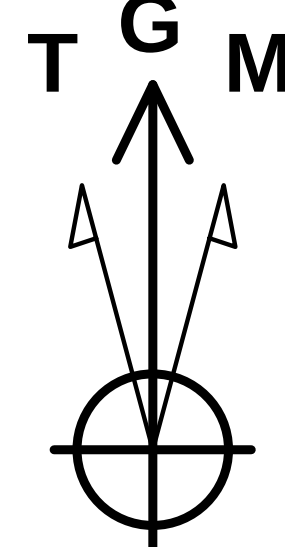
RKB = 20' @ 3674.00usft						
3654.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	658806.10	591718.30	32.8109797	-104.1693487	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
3	717.12	8.34	195.55	715.65	-29.20	-8.13	2.00	9.02
4	2861.44	8.34	195.55	2837.28	-328.93	-91.54	0.00	101.60
5	3825.64	60.00	268.24	3623.27	-416.77	-568.86	6.00	581.39
6	4025.64	60.00	268.24	3723.27	-422.10	-741.98	0.00	754.60
7	4331.32	90.57	268.24	3800.00	-431.10	-1034.00	10.00	1046.75
8	9327.93	90.57	268.24	3750.50	-584.96	-6028.00	0.00	6043.12
9	9377.96	90.57	268.24	3750.00	-586.50	-6078.00	0.00	6093.15

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

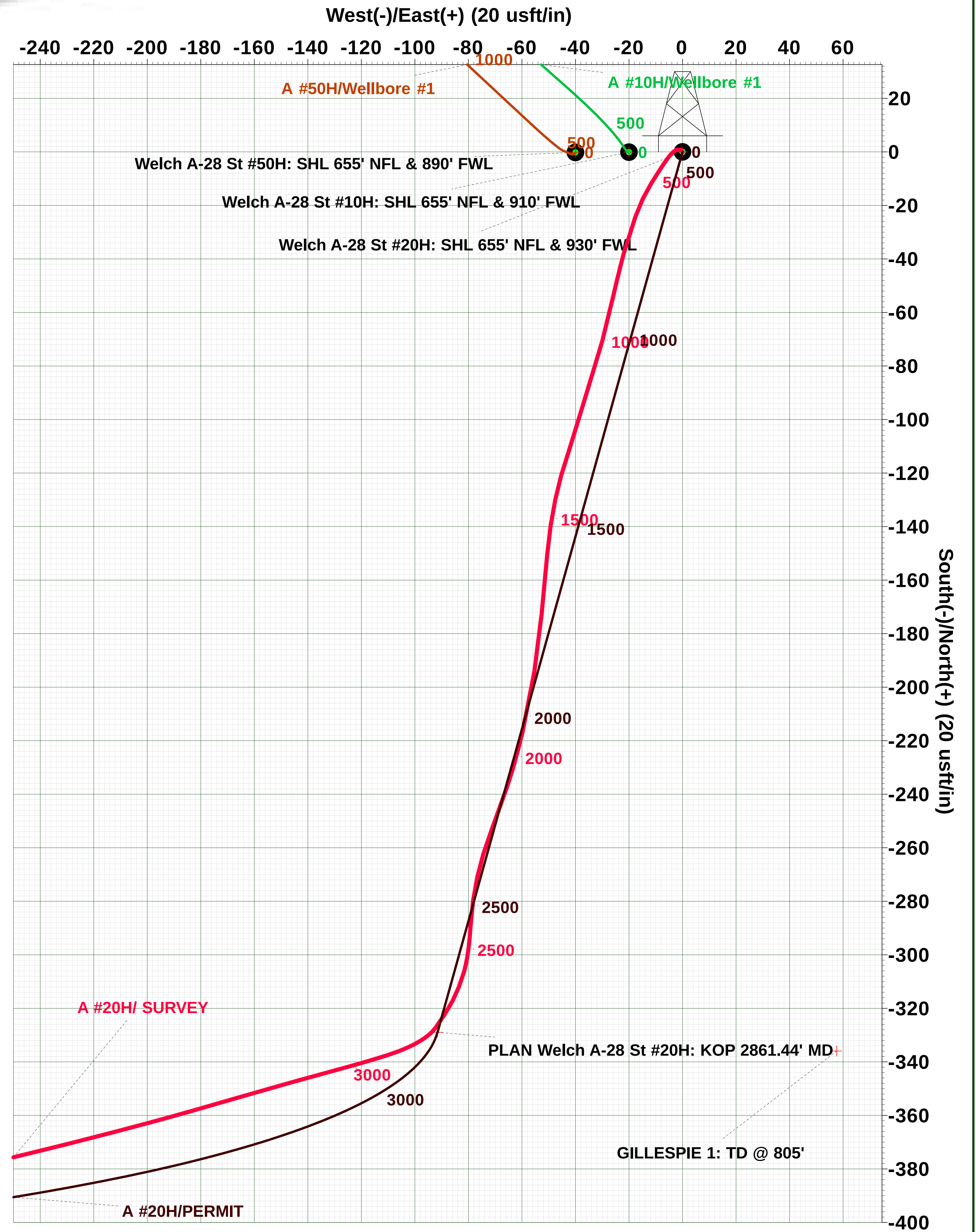
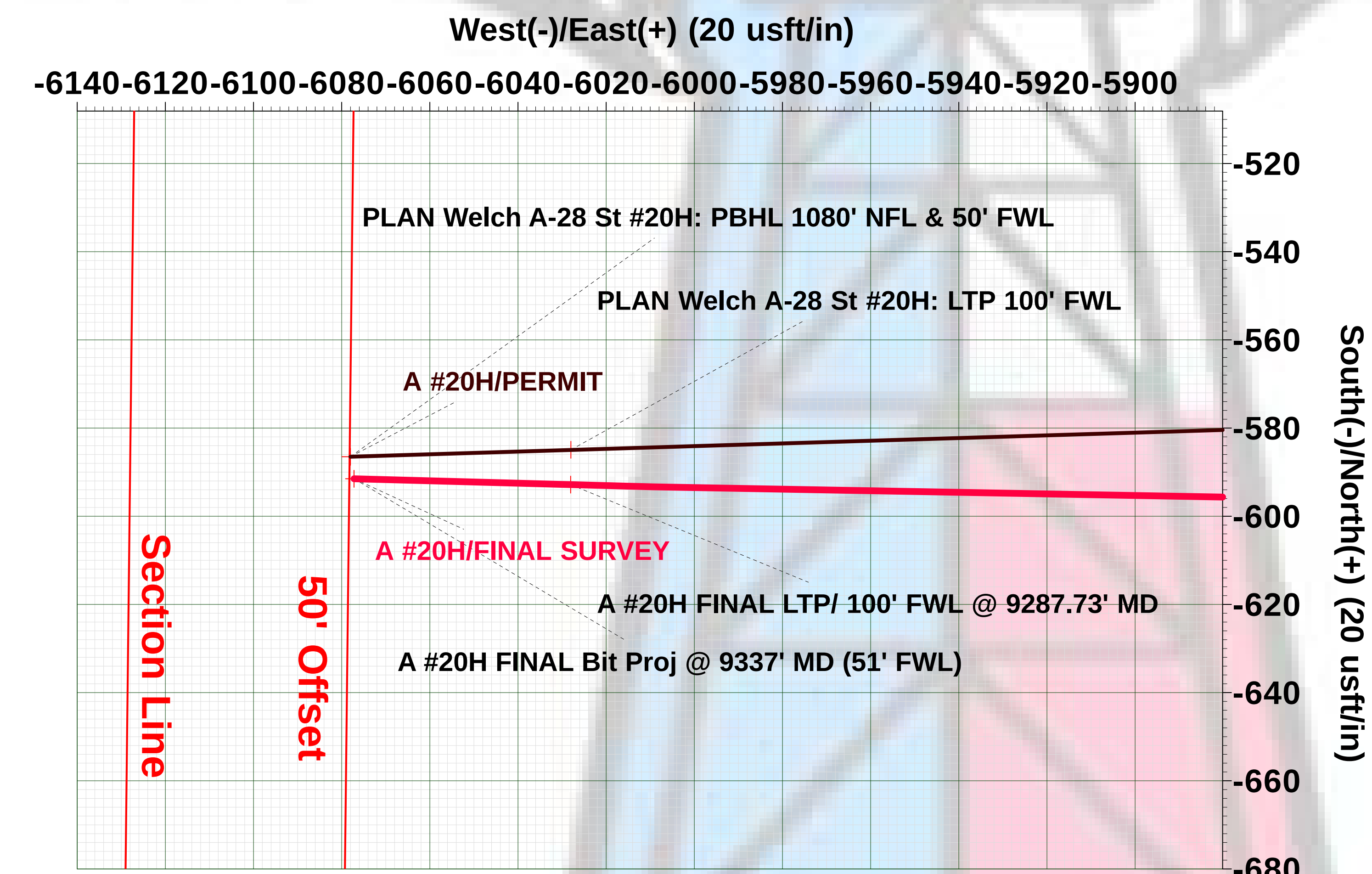
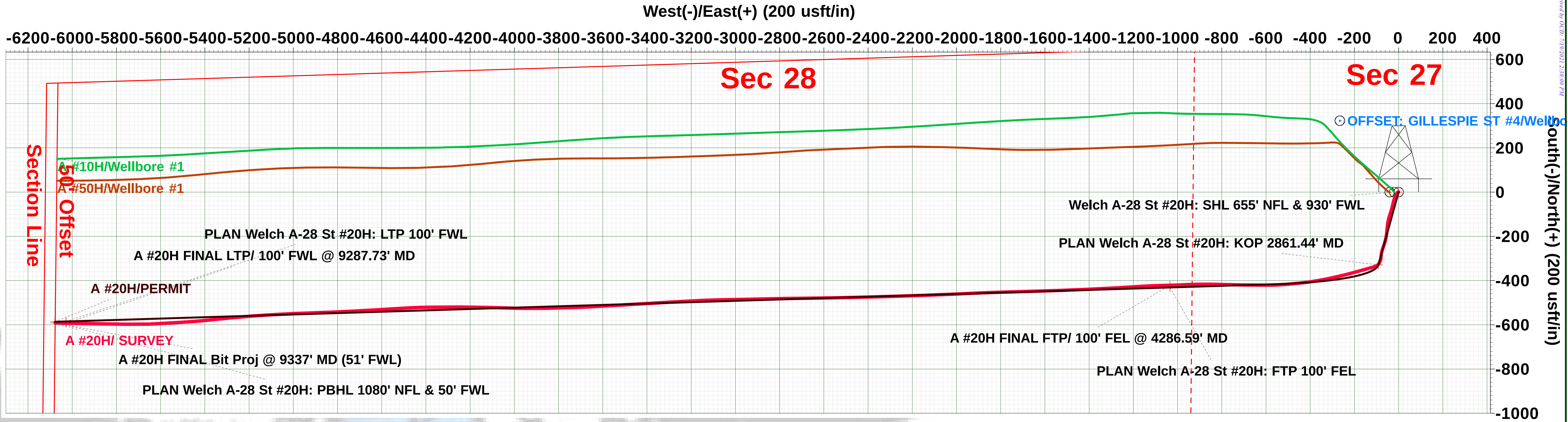


Azimuths to Grid North
True North: -0.09°
Magnetic North: 6.85°

Magnetic Field
Strength: 47835.4snT
Dip Angle: 60.36°
Date: 11/21/2020
Model: IGRF2020

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.846°
To convert a True Direction to a Grid Direction, Subtract 0.089°
To convert a Magnetic Direction to a True Direction, Add 6.935° East
Magnetic Declination: 6.935°
Grid Convergence: 0.089° West
Magnetic Dip Angle: 60.362°
Magnetic Field Strength: 47835.35210199nT



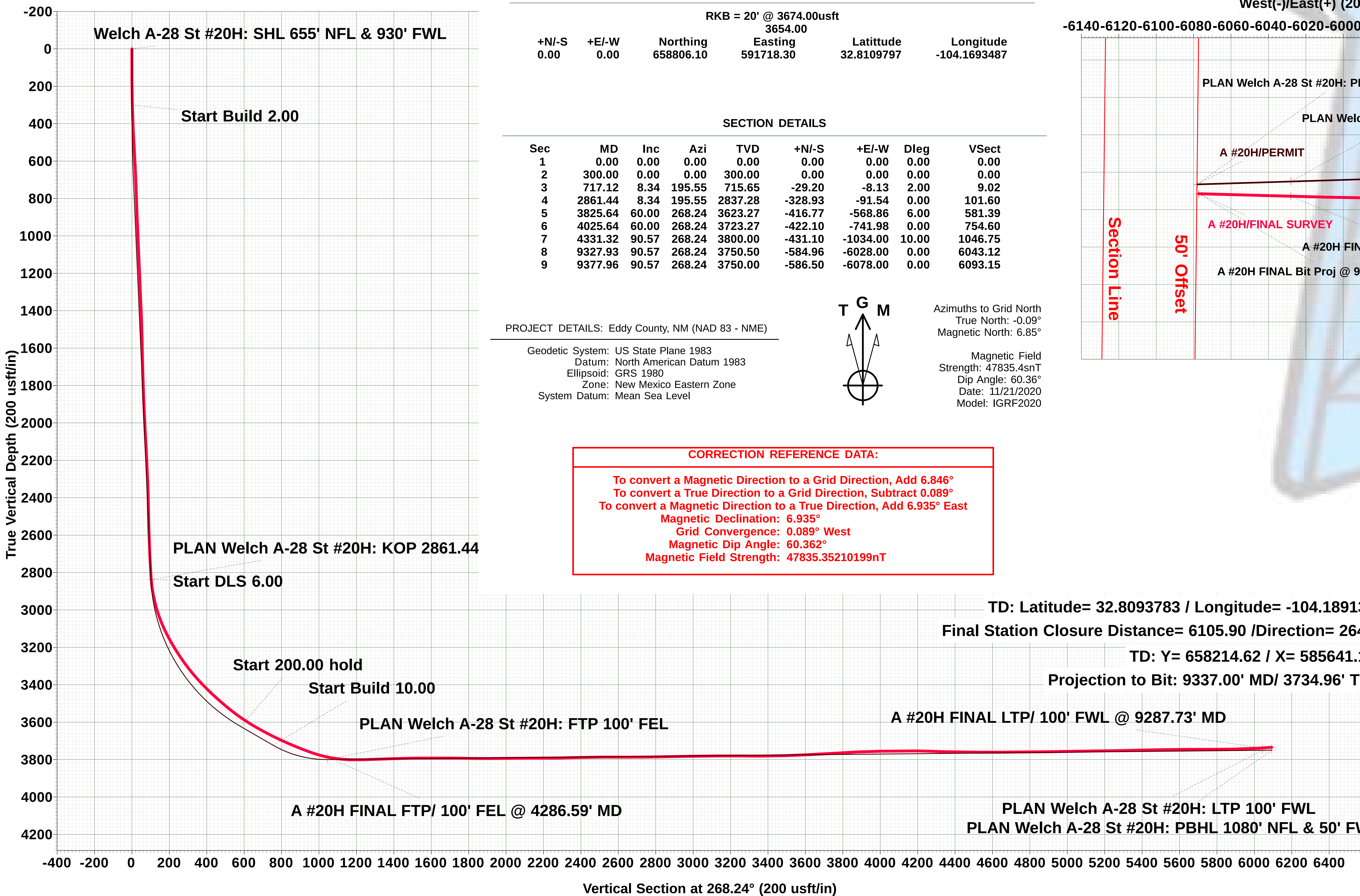
Disclaimer:
All Plan Details, boundary
lines and offset well
location/ survey data is
provided by customer and
subject to customer
approval.



TD: Latitude= 32.8093783 / Longitude= -104.1891319
Final Station Closure Distance= 6105.90 /Direction= 264.44
TD: Y= 658214.62 / X= 585641.12
Projection to Bit: 9337.00' MD/ 3734.96' TVD

A #20H FINAL LTP/ 100' FWL @ 9287.73' MD

PLAN Welch A-28 St #20H: LTP 100' FWL
PLAN Welch A-28 St #20H: PBHL 1080' NFL & 50' FWL



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

KZ 06/29/2018

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

ACKNOWLEDGMENTS

Action 36932

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 36932
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
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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 36932

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 36932
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 expires 11/25/2021; submit all drilling, casing, and completion sundries/reports.	8/25/2021