

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

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 NW 08/12/2021
⁴ API Number 30 - 0 15-47743	⁵ Pool Name ARTESIA; GLORIETA-YESO (O)	⁶ Pool Code 96830
⁷ Property Code 330996	⁸ Property Name WELCH A 28 STATE COM	⁹ Well Number 10H

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	910	WEST	EDDY

¹¹ Bottom Hole Location FTP: 292' FNL 103' FEL LTP: 343' FNL 147' 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		343	NORTH	51	WEST	EDDY
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 04/13/2021	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 01/22/2021	²² Ready Date 04/13/2021	²³ TD 3645'V/9193'M	²⁴ PBDT 3645'V/9193'M	²⁵ Perforations 4146'-9096'	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 BTC	1255'	460 SXS (CIRC TO SURFACE)		
8-3/4"	7" 32# L-80 BK-HT	4035'	1395 SXS (CIRC TO SURFACE)		
8-3/4"	5-1/2" 20# L-80 BK-HT	9193'	1395 SXS (CIRC TO SURFACE)		
	3-1/2" J-55 TBG	3912'			

V. Well Test Data

³¹ Date New Oil 04/13/2021	³² Gas Delivery Date 04/15/2021	³³ Test Date 05/03/2021	³⁴ Test Length 24-HOURS	³⁵ Tbg. Pressure 198	³⁶ Csg. Pressure 140
³⁷ Choke Size N/A	³⁸ Oil 598	³⁹ Water 2618	⁴⁰ Gas 631		⁴¹ Test Method ESP

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: 	OIL CONSERVATION DIVISION Approved by: KURT SIMMONS
Printed name: SARAH CHAPMAN	Title: NMOCD, SANTA FE
Title: REGULATORY DIRECTOR	Approval Date: 09/22/2021
E-mail Address: SCHAPMAN@SPUREPLLC.COM	
Date: 08/12/2021	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 30-015-47743		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 10H
⁷ OGRID NO. 328947		⁸ Operator Name SPUR ENERGY PARTNERS LLC.			⁹ Elevation 3654'

¹⁰ Surface Location

UL or lot no. D	Section 27	Township 17S	Range 28E	Lot Idn	Feet from the 655	North/South line NORTH	Feet From the 910	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 28	Township 17S	Range 28E	Lot Idn	Feet from the 343	North/South line NORTH	Feet from the 51	East/West line WEST	County EDDY
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¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID — NM EAST <u>SURFACE LOCATION (SL)</u> N: 658806.0 — E: 591698.3 LAT: 32.8109796° N LONG: 104.1694138° W <u>FIRST TAKE POINT (FTP)</u> 292' FNL & 103' FEL — SEC 28 N: 659162.7 — E: 590688.7 LAT: 32.8119642° N LONG: 104.1726981° W MD = 4146' — TVD = 3762.3' <u>LAST TAKE POINT (LTP)</u> 343' FNL & 147' FWL — SEC 28 N: 658959.2 — E: 585746.0 LAT: 32.8114245° N LONG: 104.1887873° W MD = 9097' — TVD = 3646.2'		<u>BOTTOM HOLE (BH)</u> N: 658956.4 — E: 585650.0 LAT: 32.8114171° N LONG: 104.1890996° W MD = 9193' — TVD = 3645.0' <u>CORNER DATA</u> 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	
		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> <u>Sarah Chapman</u> 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> 01/29/2021 Date of Survey Signature and Seal of Professional Surveyor 		19680 Certificate Number LS20100587AD	



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **01/22/21** thru **01/29/21** conduct or supervise the taking of a **MWD Survey** from a depth of **163'** to a depth of **9193'**; 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 10H** API No. **30-015-467743** 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

*1125 Beach Airport Rd, Conroe, Texas
77301*



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Welch A 28 State

A #10H

Wellbore #1

Survey: Survey #1

Standard Survey Report

29 January, 2021





Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #10H
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 #10H	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 #10H					
Well Position	+N/-S	0.00 usft	Northing:	658,806.00 usft	Latitude:	32.8109796
	+E/-W	0.00 usft	Easting:	591,698.30 usft	Longitude:	-104.1694138
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	1/21/2021	6.915	60.357	47,817.97425927

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	1/29/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
163.00	9,193.00	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	
WYLIE 2: TD @ 3575' - Welch A-28 St #10H: SHL 655' NFL & 910' FWL - GILLESPIE 1: TD @ 805' - Welch A-28 St #10H: F										
0.08	0.00	290.10	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
GILLESPIE STATE 6: TD @ 790'										
7.81	0.01	290.10	7.81	0.00	0.00	0.00	0.19	0.19	0.00	
WELCH RL STATE 7: TD @ 3645'										
163.00	0.31	290.10	163.00	0.15	-0.41	0.41	0.19	0.19	0.00	
284.00	0.09	186.21	284.00	0.17	-0.73	0.73	0.28	-0.18	-85.86	
405.00	3.08	327.10	404.94	2.81	-2.51	2.42	2.60	2.47	116.44	
524.00	6.73	317.26	523.49	10.61	-8.98	8.65	3.14	3.07	-8.27	



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #10H
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 #10H	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)
644.00	9.58	311.81	642.26	22.44	-21.20	20.50	2.46	2.37	-4.54
764.00	10.46	311.28	760.43	36.28	-36.83	35.69	0.74	0.73	-0.44
885.00	10.24	311.72	879.46	50.68	-53.11	51.53	0.19	-0.18	0.36
1,007.00	10.07	310.58	999.55	64.84	-69.30	67.28	0.22	-0.14	-0.93
1,130.00	10.02	310.58	1,120.67	78.80	-85.60	83.14	0.04	-0.04	0.00
1,179.00	10.33	310.31	1,168.90	84.41	-92.18	89.55	0.64	0.63	-0.55
1,273.00	10.02	310.24	1,261.42	95.15	-104.85	101.88	0.33	-0.33	-0.07
1,399.00	10.13	310.64	1,385.47	109.44	-121.63	118.21	0.10	0.09	0.32
1,525.00	9.89	310.34	1,509.56	123.66	-138.29	134.42	0.19	-0.19	-0.24
1,652.00	9.66	311.79	1,634.71	137.83	-154.54	150.24	0.27	-0.18	1.14
1,778.00	9.63	313.09	1,758.93	152.07	-170.12	165.37	0.17	-0.02	1.03
1,902.00	9.59	313.61	1,881.19	166.28	-185.17	179.98	0.08	-0.03	0.42
2,027.00	9.84	314.46	2,004.40	180.94	-200.34	194.69	0.23	0.20	0.68
2,153.00	10.30	314.40	2,128.46	196.37	-216.07	209.94	0.37	0.37	-0.05
2,279.00	10.66	316.42	2,252.36	212.69	-232.15	225.51	0.41	0.29	1.60
2,406.00	10.79	318.45	2,377.14	230.09	-248.13	240.95	0.31	0.10	1.60
2,532.00	9.75	318.01	2,501.12	246.85	-263.09	255.39	0.83	-0.83	-0.35
2,657.00	9.56	320.13	2,624.35	262.69	-276.83	268.63	0.32	-0.15	1.70
2,782.00	8.78	316.17	2,747.75	277.53	-290.09	281.43	0.80	-0.62	-3.17
2,909.00	8.71	317.28	2,873.27	291.59	-303.33	294.23	0.14	-0.06	0.87
2,972.00	8.82	318.89	2,935.54	298.74	-309.74	300.42	0.43	0.17	2.56
3,013.98	9.69	312.36	2,976.97	303.54	-314.46	304.99	3.24	2.07	-15.56
Welch A-28 St #10H: KOP @ 3013.87' MD									
3,034.00	10.14	309.65	2,996.69	305.80	-317.07	307.53	3.24	2.26	-13.53
3,098.00	12.30	299.82	3,059.47	312.79	-327.32	317.56	4.50	3.37	-15.36
3,161.00	14.60	293.09	3,120.74	319.24	-340.45	330.48	4.41	3.65	-10.68
3,224.00	17.23	285.55	3,181.33	324.85	-356.75	346.60	5.30	4.17	-11.97
3,287.00	20.01	279.35	3,241.03	329.11	-376.38	366.09	5.41	4.41	-9.84
3,349.00	23.08	273.45	3,298.70	331.56	-398.98	388.61	6.05	4.95	-9.52
3,411.00	28.20	272.18	3,354.58	332.85	-425.77	415.35	8.31	8.26	-2.05
3,445.00	31.16	272.53	3,384.11	333.55	-442.59	432.14	8.72	8.71	1.03
3,508.00	35.66	272.34	3,436.69	335.02	-477.24	466.72	7.14	7.14	-0.30
3,571.00	41.79	274.36	3,485.82	337.37	-516.56	505.95	9.93	9.73	3.21
3,634.00	47.18	276.19	3,530.75	341.46	-560.49	549.74	8.79	8.56	2.90
3,697.00	52.04	275.67	3,571.56	346.40	-608.21	597.28	7.74	7.71	-0.83
3,760.00	57.30	273.01	3,607.98	350.25	-659.43	648.37	9.03	8.35	-4.22
3,822.00	61.69	271.01	3,639.45	352.10	-712.80	701.65	7.61	7.08	-3.23
3,886.00	61.79	270.58	3,669.75	352.89	-769.17	757.97	0.61	0.16	-0.67
3,948.00	61.70	270.09	3,699.10	353.21	-823.78	812.54	0.71	-0.15	-0.79
4,012.00	64.84	270.32	3,727.89	353.41	-880.93	869.66	4.92	4.91	0.36
4,075.00	74.13	271.37	3,749.94	354.30	-939.87	928.54	14.83	14.75	1.67
4,138.00	83.73	272.38	3,762.02	356.33	-1,001.59	990.17	15.32	15.24	1.60
4,142.78	84.36	272.39	3,762.52	356.53	-1,006.33	994.91	13.27	13.27	0.16
A #10H FINAL FTP/ 100' FEL @ 4142.78' MD									



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #10H
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 #10H	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)
4,201.00	92.09	272.48	3,764.32	358.99	-1,064.43	1,052.90	13.27	13.27	0.16
4,277.81	92.69	268.09	3,761.11	359.37	-1,141.16	1,129.58	5.77	0.78	-5.72
Welch A-28 St #10H: LP Plan #1									
4,327.00	93.07	265.27	3,758.64	356.53	-1,190.20	1,178.68	5.77	0.77	-5.72
4,381.00	93.27	263.38	3,755.65	351.20	-1,243.85	1,232.47	3.51	0.37	-3.50
4,507.00	91.78	266.70	3,750.10	340.32	-1,369.23	1,358.13	2.89	-1.18	2.63
4,634.00	92.03	267.77	3,745.88	334.19	-1,496.01	1,485.04	0.86	0.20	0.84
4,760.00	92.93	267.91	3,740.43	329.45	-1,621.80	1,610.92	0.72	0.71	0.11
4,886.00	92.71	266.52	3,734.23	323.33	-1,747.50	1,736.74	1.12	-0.17	-1.10
5,012.00	93.47	266.26	3,727.44	315.41	-1,873.06	1,862.49	0.64	0.60	-0.21
5,138.00	92.31	266.21	3,721.08	307.15	-1,998.63	1,988.25	0.92	-0.92	-0.04
5,264.00	93.10	266.42	3,715.14	299.06	-2,124.23	2,114.04	0.65	0.63	0.17
5,390.00	92.34	266.89	3,709.16	291.72	-2,249.87	2,239.85	0.71	-0.60	0.37
5,514.00	92.68	267.37	3,703.73	285.51	-2,373.60	2,363.71	0.47	0.27	0.39
5,635.00	93.49	267.92	3,697.22	280.55	-2,494.32	2,484.52	0.81	0.67	0.45
5,754.00	92.09	268.17	3,691.42	276.50	-2,613.10	2,603.38	1.20	-1.18	0.21
5,877.00	92.17	268.29	3,686.85	272.70	-2,735.96	2,726.29	0.12	0.07	0.10
5,996.00	90.77	268.01	3,683.80	268.86	-2,854.86	2,845.25	1.20	-1.18	-0.24
6,115.00	90.58	267.91	3,682.40	264.62	-2,973.77	2,964.24	0.18	-0.16	-0.08
6,236.00	91.14	268.35	3,680.58	260.67	-3,094.69	3,085.23	0.59	0.46	0.36
6,357.00	91.84	268.43	3,677.44	257.28	-3,215.60	3,206.19	0.58	0.58	0.07
6,479.00	91.78	268.07	3,673.58	253.55	-3,337.49	3,328.12	0.30	-0.05	-0.30
6,601.00	92.06	268.19	3,669.49	249.57	-3,459.35	3,450.06	0.25	0.23	0.10
6,723.00	90.86	266.50	3,666.39	243.92	-3,581.18	3,571.99	1.70	-0.98	-1.39
6,846.00	89.34	265.80	3,666.17	235.67	-3,703.89	3,694.91	1.36	-1.24	-0.57
6,972.00	89.76	265.88	3,667.16	226.53	-3,829.56	3,820.79	0.34	0.33	0.06
7,098.00	90.97	265.81	3,666.36	217.40	-3,955.22	3,946.68	0.96	0.96	-0.06
7,223.00	89.54	267.70	3,665.80	210.32	-4,080.01	4,071.63	1.90	-1.14	1.51
7,349.00	90.41	267.30	3,665.86	204.83	-4,205.89	4,197.61	0.76	0.69	-0.32
7,475.00	90.29	269.38	3,665.09	201.18	-4,331.83	4,323.61	1.65	-0.10	1.65
7,603.00	91.39	269.71	3,663.21	200.16	-4,459.81	4,451.56	0.90	0.86	0.26
7,709.77	91.94	269.92	3,660.11	199.81	-4,566.53	4,558.24	0.55	0.52	0.19
WELCH RL STATE 6: TD @ 3520'									
7,720.05	91.99	269.94	3,659.75	199.80	-4,576.80	4,568.51	0.55	0.52	0.19
STATE 14: TD @ 1986'									
7,727.00	92.03	269.95	3,659.51	199.79	-4,583.75	4,575.45	0.55	0.52	0.19
7,854.00	92.09	270.06	3,654.95	199.80	-4,710.67	4,702.31	0.10	0.05	0.09
7,980.00	92.54	270.13	3,649.86	200.01	-4,836.57	4,828.14	0.36	0.36	0.06
8,107.00	90.83	268.38	3,646.12	198.36	-4,963.49	4,955.06	1.93	-1.35	-1.38
8,234.00	89.06	266.64	3,646.24	192.84	-5,090.36	5,082.04	1.95	-1.39	-1.37
WELCH RL STATE 4: TD @ 3583' - RED LAKE SAND UNIT 42: TD @ 2055'									
8,276.24	89.19	266.58	3,646.89	190.35	-5,132.52	5,124.26	0.34	0.31	-0.14
WELCH RL STATE 19: TD @ 3650'									
8,360.00	89.45	266.46	3,647.88	185.26	-5,216.12	5,207.97	0.34	0.31	-0.14



Survey Report



Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well A #10H
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 #10H	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)	
8,486.00	89.93	266.60	3,648.56	177.64	-5,341.89	5,333.91	0.40	0.38	0.11	
8,612.00	90.43	266.36	3,648.17	169.90	-5,467.65	5,459.85	0.44	0.40	-0.19	
8,738.00	89.65	268.08	3,648.08	163.79	-5,593.50	5,585.83	1.50	-0.62	1.37	
8,864.00	90.15	268.35	3,648.30	159.86	-5,719.43	5,711.83	0.45	0.40	0.21	
8,937.34	90.41	268.37	3,647.94	157.76	-5,792.74	5,785.16	0.36	0.35	0.02	
RED LAKE PSU-WELCH 14: TD @ 1985'										
8,946.94	90.44	268.37	3,647.87	157.49	-5,802.34	5,794.77	0.36	0.35	0.02	
WELCH RL STATE 18: TD @ 3650'										
8,971.39	90.53	268.38	3,647.66	156.80	-5,826.77	5,819.21	0.36	0.35	0.02	
RED LAKE SAND UNIT 40: TD @ 2119'										
8,991.00	90.60	268.38	3,647.47	156.24	-5,846.38	5,838.82	0.36	0.35	0.02	
9,126.00	90.74	268.31	3,645.89	152.34	-5,981.31	5,973.81	0.12	0.10	-0.05	
A #10H FINAL LTP/ 100' FWL @ 9144.25' MD - Welch A-28 St #10H: LTP 100' FWL										
9,193.00	90.74	268.31	3,645.02	150.37	-6,048.28	6,040.81	0.00	0.00	0.00	
TD: Y= 658956.37 / X= 585650.02 - Final Station Closure Distance= 6050.15 /Direction= 271.42 - Projection to Bit: 9193.0										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
A #10H FINAL Bit Pro	0.00	0.00	3,645.02	150.37	-6,048.28	658,956.37	585,650.03	32.8114171	-104.1890996	
- hit/miss target										
- Shape										
- survey hits target center										
- Point										
A #10H FINAL LTP/ 1'	0.00	0.00	3,645.65	151.80	-5,999.55	658,957.81	585,698.75	32.8114209	-104.1889410	
- survey misses target center by 18.25usft at 9126.00usft MD (3645.89 TVD, 152.34 N, -5981.31 E)										
- Point										
A #10H FINAL FTP/ 1'	0.00	0.00	3,762.52	356.53	-1,006.34	659,162.53	590,691.96	32.8119638	-104.1726875	
- survey hits target center										
- Point										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Local Coordinates	
9,193.00	3,645.02	150.37	-6,048.28	Comment	
9,193.00	3,645.02	150.37	-6,048.28	TD: Y= 658956.37 / X= 585650.02	
9,193.00	3,645.02	150.37	-6,048.28	Final Station Closure Distance= 6050.15 /Direction= 271.42	
9,193.00	3,645.02	150.37	-6,048.28	Projection to Bit: 9193.00' MD/ 3645.02' TVD	
9,193.00	3,645.02	150.37	-6,048.28	TD: Latitude= 32.8114171 / Longitude= -104.1890996	

Checked By: _____ Approved By: _____ Date: _____



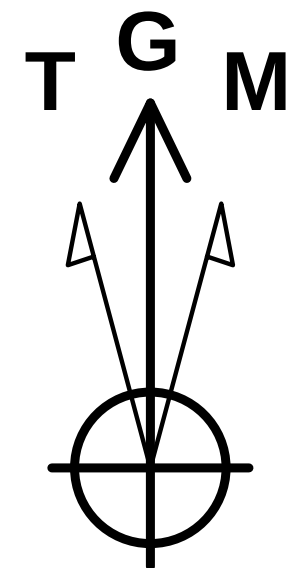
Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Welch A 28 State
Well: A #10H
Wellbore: Wellbore #1
Rig:
Design: Plan #1 / 23:33, January 29 2021

WELL DETAILS: A #10H

RKB = 20' @ 3674.00usft 3654.00					
+N/-S 0.00	+E/-W 0.00	Northing 658806.00	Easting 591698.30	Latitude 32.8109796	Longitude -104.1694138

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



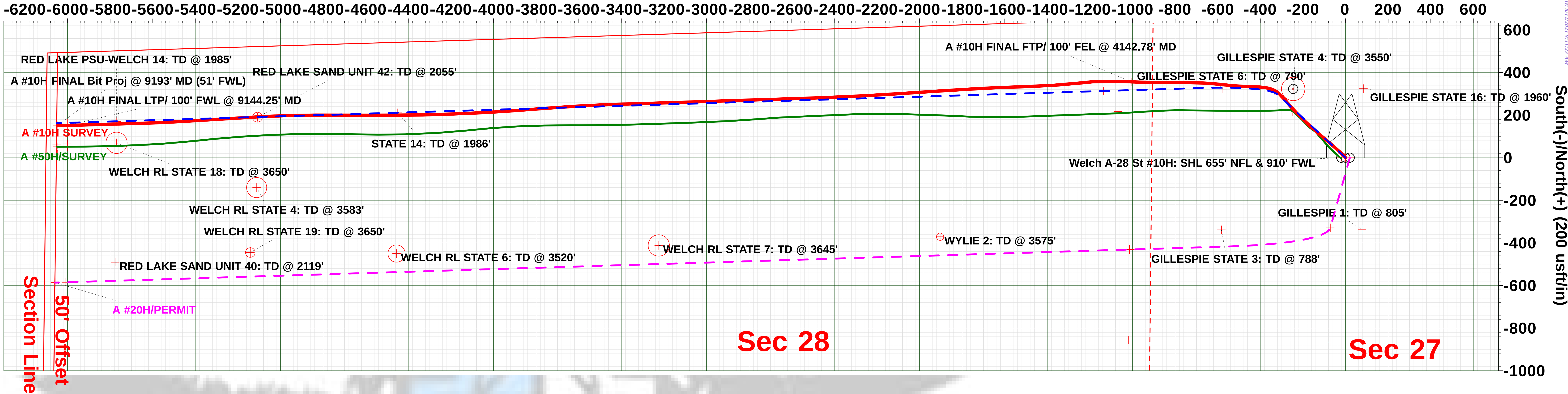
Azimuths to Grid North
True North: -0.09°
Magnetic North: 6.83°

Magnetic Field
Strength: 47818.0snT
Dip Angle: 60.36°
Date: 1/21/2021
Model: IGRF2020

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.827°
To convert a True Direction to a Grid Direction, Subtract 0.089°
To convert a Magnetic Direction to a True Direction, Add 6.915° East
Magnetic Declination: 6.915°
Grid Convergence: 0.089° West
Magnetic Dip Angle: 60.357°
Magnetic Field Strength: 47817.97425927nT

West(-)/East(+) (200 usft/in)



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	626.00	9.78	312.99	624.42	18.93	-20.30	3.00	19.71
4	3013.87	9.78	312.99	2977.59	295.51	-316.99	0.00	307.76
5	3680.50	60.00	268.24	3511.86	327.61	-673.01	8.00	662.63
6	3880.50	60.00	268.24	3611.86	322.29	-846.13	0.00	835.83
7	4185.00	90.45	268.24	3688.60	313.35	-1136.97	10.00	1126.81
8	9100.00	90.45	268.24	3650.00	162.40	-6049.50	0.00	6041.66

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Welch A-28 St #10H: FTP 100' FEL *PLAT	0.00	317.70	-1006.60	659123.70	590691.70	32.8118570	-104.1726886
Welch A-28 St #10H: SHL 655' NFL & 910' FWL	0.00	0.00	0.00	658806.00	591698.30	32.8109796	-104.1694138
WELCH RL STATE 18: TD @ 3650'	0.00	69.90	-5769.90	658875.90	585928.40	32.8111949	-104.1881939
Welch A-28 St #10H: KOP @ 3013.87' MD Plan #1	2977.59	295.51	-316.99	659101.51	591381.31	32.8117932	-104.1704441
A #10H FINAL Bit Proj @ 9193' MD (51' FWL)	3645.02	150.37	-6048.28	658956.37	585650.02	32.8114171	-104.1890996
A #10H FINAL LTP/ 100' FWL @ 9144.25' MD	3645.65	151.80	-5999.55	658957.80	585698.75	32.8114209	-104.1889410
Welch A-28 St #10H: PBHL 331' NFL & 50'FWL Plan #1	3650.00	162.40	-6049.50	658968.40	585648.80	32.8114502	-104.1891035
Welch A-28 St #10H: LTP 100' FWL Plan #1	3650.40	162.90	-5999.50	658968.90	585698.80	32.8114514	-104.1889408
Welch A-28 St #10H: LP Plan #1	3688.60	313.35	-1136.97	659119.35	590561.33	32.8118456	-104.1731130
A #10H FINAL FTP/ 100' FEL @ 4142.78' MD	3762.52	356.53	-1006.34	659162.53	590691.96	32.8119638	-104.1726876



Plan: Plan #1 (A #10H/Wellbore #1)

Created By: Matthew May Date: 23:33, January 29 2021

Disclaimer:

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

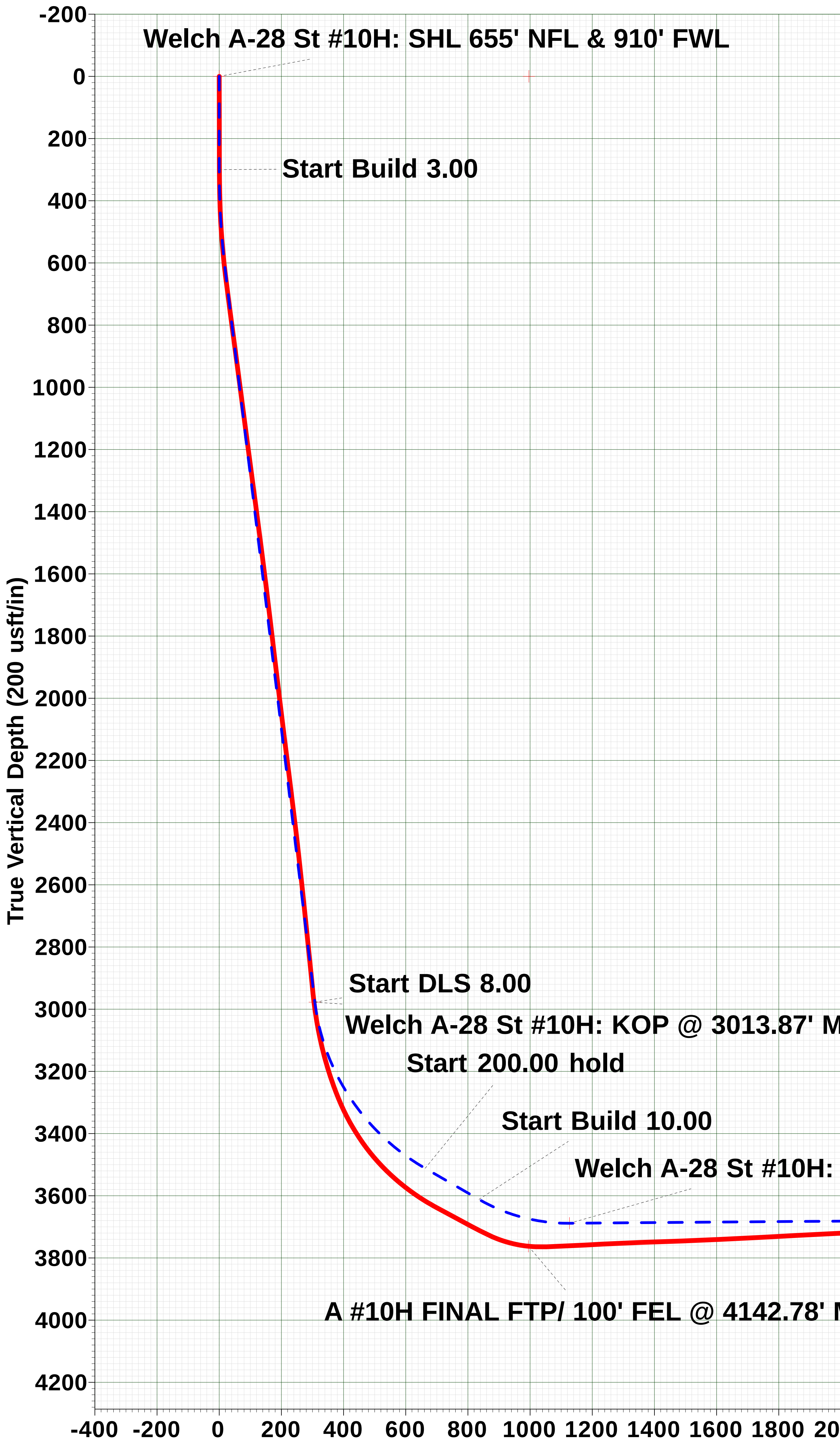
TD: Y= 658956.37 / X= 585650.02

Final Station Closure Distance= 6050.15 /Direction= 271.42

Projection to Bit: 9193.00' MD/ 3645.02' TVD

TD: Latitude= 32.8114171 / Longitude= -104.1890996

Vertical Section at 268.24° (200 usft/in)



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

Welch A 28 State 10H			
FIELD		API #	30-015-47743
COUNTY	Eddy Co	SPUD DATE	1/22/2021
STATE	New Mexico	RIG RELEASE	1/30/2021
LATITUDE		COMPLETION	4/12/2021
LONGITUDE			

Production
7" L-80 32# BK-HT
0-4035'
X/O
5 1/2" L-80 20# BTC
4038'-9193'
1395 sx
TOC surface

LATERAL DETAILS	
STAGES	25
TOP PERF	4,146'
BOTTOM PERF	9,097'
CLUSTERS	6
STAGE LENGTH	
PBTD	9,128'
TD	9,193'

CASING						
	CONDUCTOR	SURFACE	INTERMEDIATE	PRODUCTION 1	PRODUCTION 2	TUBING
HOLE		12 1/4"		8 3/4"	8 3/4"	
CASING		9 5/8"		7"	5 1/2"	3 1/2"
WEIGHT		36		32	20	
GRADE		J-55		L-80	L-80	
TOP		0		0	4038	3874'
BOTTOM		1255'		4035'	9193'	
ID		8.921		6.094	4.778	
DRIFT		8.765		5.969	4.653	
BURST		3520		9060	9190	
COLLAPSE		2020		8830	8830	
BBL/FT		0.0773		0.0361	0.0222	

GROUND ELEV.	3,654'	LOG ELEV. (RKB)	21'
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Performance Level	Value
TOP PERF	4,146'
BOTTOM PERF	9,097'

PBTD	9,128'
------	--------

TD	9,193'
----	--------

RUBICON VALVE		Float Collar
9,110'		

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 41595

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 41595
	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
Phone:(575) 393-6161 Fax:(575) 393-0720

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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 41595

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 41595
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	9/22/2021