

API #	30-015-45929	DORAMI 33 FEDERAL COM 9H	County, ST	Eddy, NM
Operator	Spur Energy Partners, LLC		Sec-Twn-Rng	34-19S-25E
Field	N. SEVEN RIVERS-GLORIETA-YESO		Footage	490' FSL 650' FWL
Spud Date	2/9/2020			

GL	3528'
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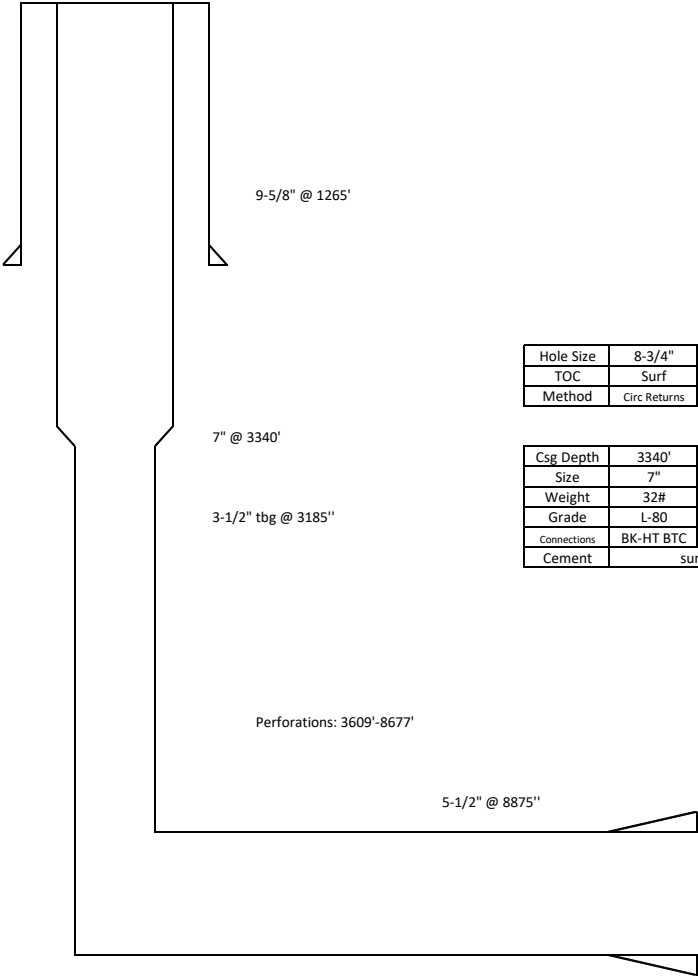
Hole Size	12-1/4"
TOC	Surf
Method	Circ Returns

Csg Depth	1265'
Size	9-5/8"
Weight	36#
Grade	J-55
Connections	BTC
Cement	surface

PBSD	8775'
TD MD	8775'
TD TVD	2959'

Hole Size	8-3/4"
TOC	Surf
Method	Circ Returns

Csg Depth	3340'	8875'
Size	7"	5-1/2"
Weight	32#	20#
Grade	L-80	L-80
Connections	BK-HT BTC	BK-HT BTC
Cement	surface	





I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **02/09/20** thru **02/17/20** conduct or supervise the taking of a **MWD Survey** from a depth of **108'** to a depth of **8775'**; 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 **Dorami 33 Fed Com 9H** API No. **30-015-45929** 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:
2020.02.26
14:26:50 -06'00'



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Dorami 33 Fed Com
Well: #9H
Wellbore: OH
Rig: Akita 57
Design: OH / 8:57, February 18 2020

WELL DETAILS: #9H

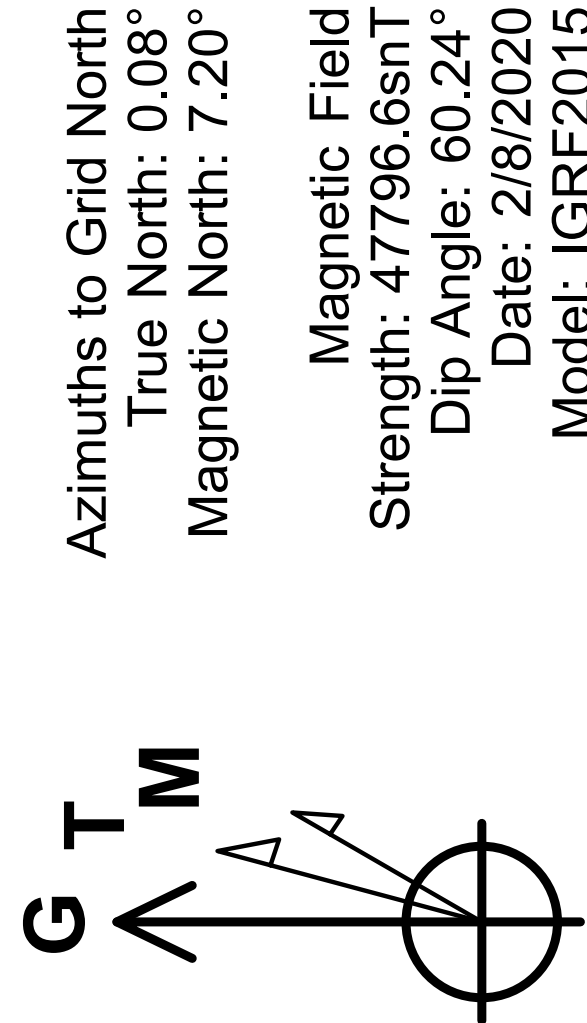
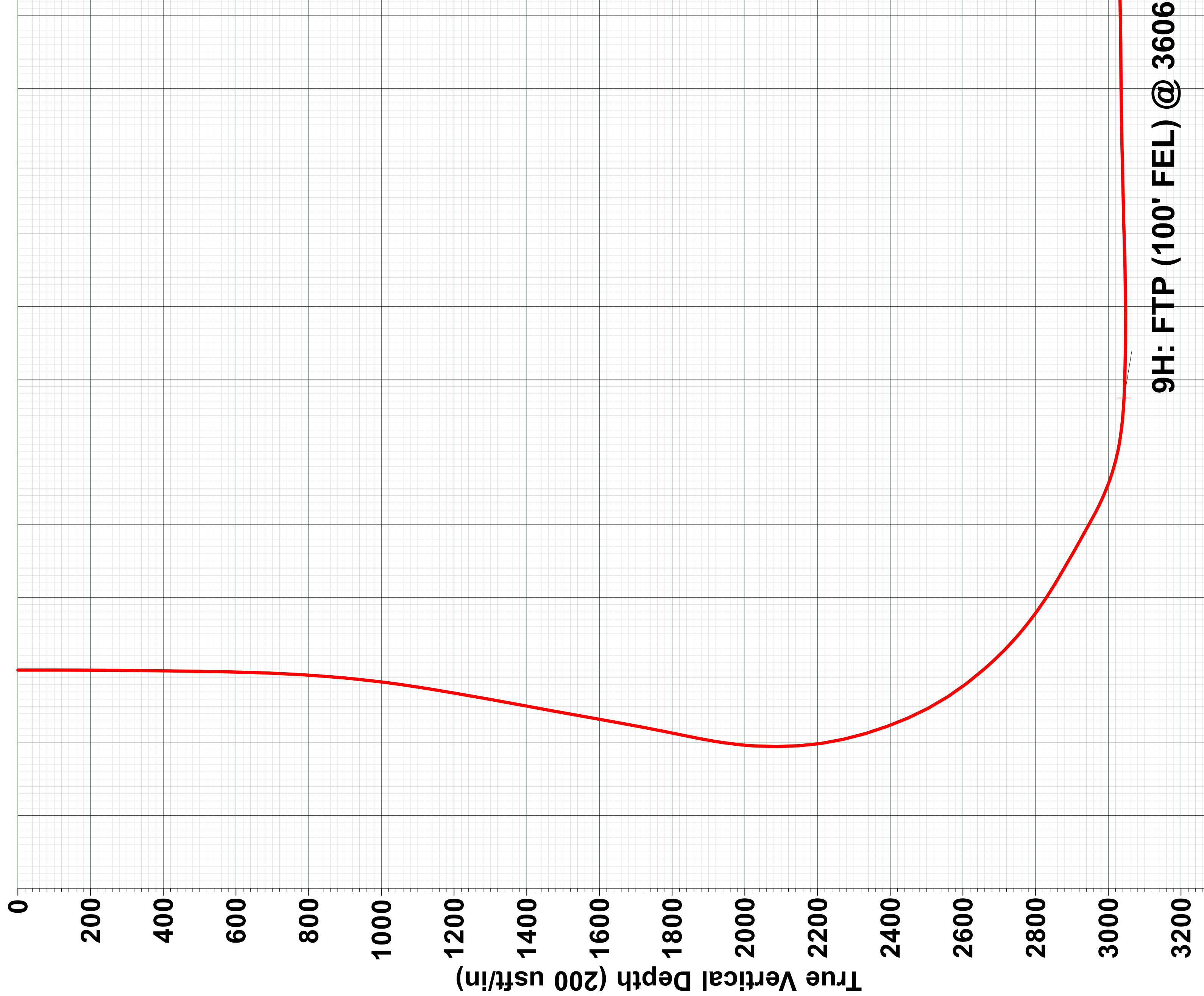
RKB=20 @ 3548.00usft (Akita 57)				
		3528.00		
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	586066.80	496444.30	-104.479131

ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure Annotation
8775.00	91.34	271.13	2958.93	282.19	-5914.40	5915.71	6453.83 Final Station Closure Distance= 5921.13 /Direction= 272.73
8775.00	91.34	271.13	2958.93	282.19	-5914.40	5915.71	6453.83 Projection to Bit: 8775.00' MD/ 2958.93' TVD
8775.00	91.34	271.13	2958.93	282.19	-5914.40	5915.71	6453.83 TD: Latitude = 32.611816 / Longitude = -104.498340
8775.00	91.34	271.13	2958.93	282.19	-5914.40	5915.71	6453.83 TD: Y= 586348.99 / X= 490529.90

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 8775' MD	2958.93	282.19	-5914.40	586348.99	490529.90	32.611816	-104.498340
9H: LTP (100' FWL) @ 8702.02' MD	2960.64	280.75	-5841.46	586347.55	490602.84	32.611813	-104.498103
9H: FTP (100' FEL) @ 3606.24' MD	3043.41	276.55	-747.39	586343.35	495696.91	32.611822	-104.481559

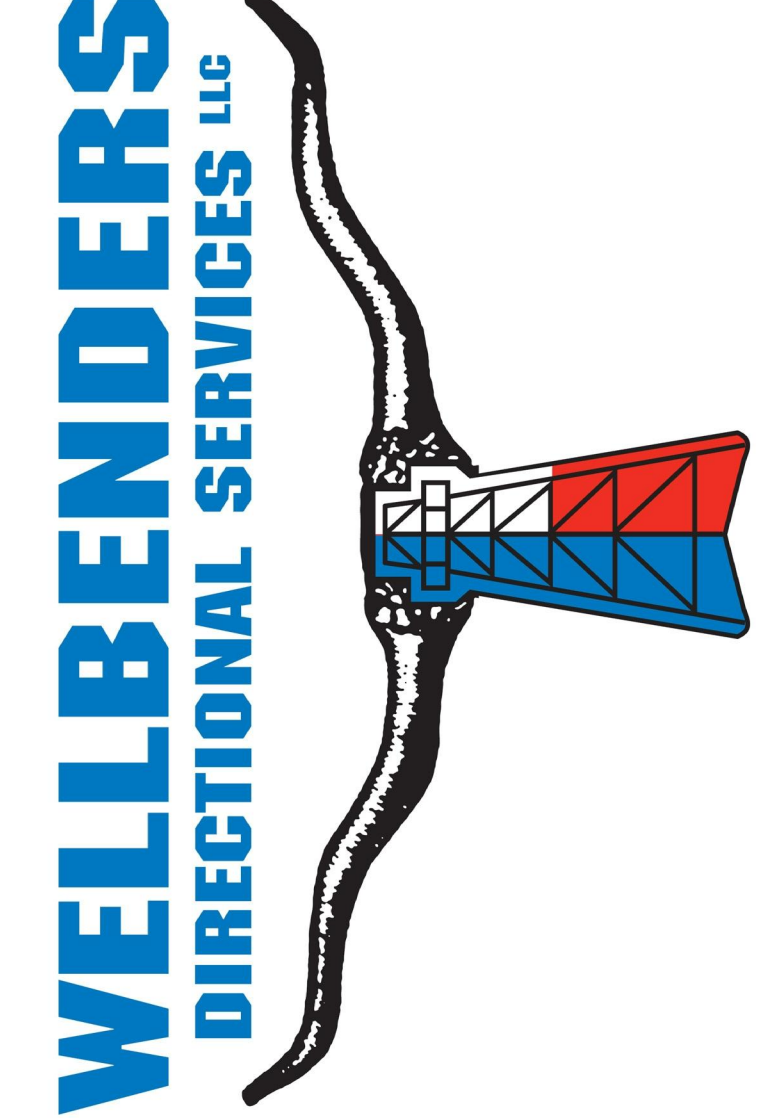
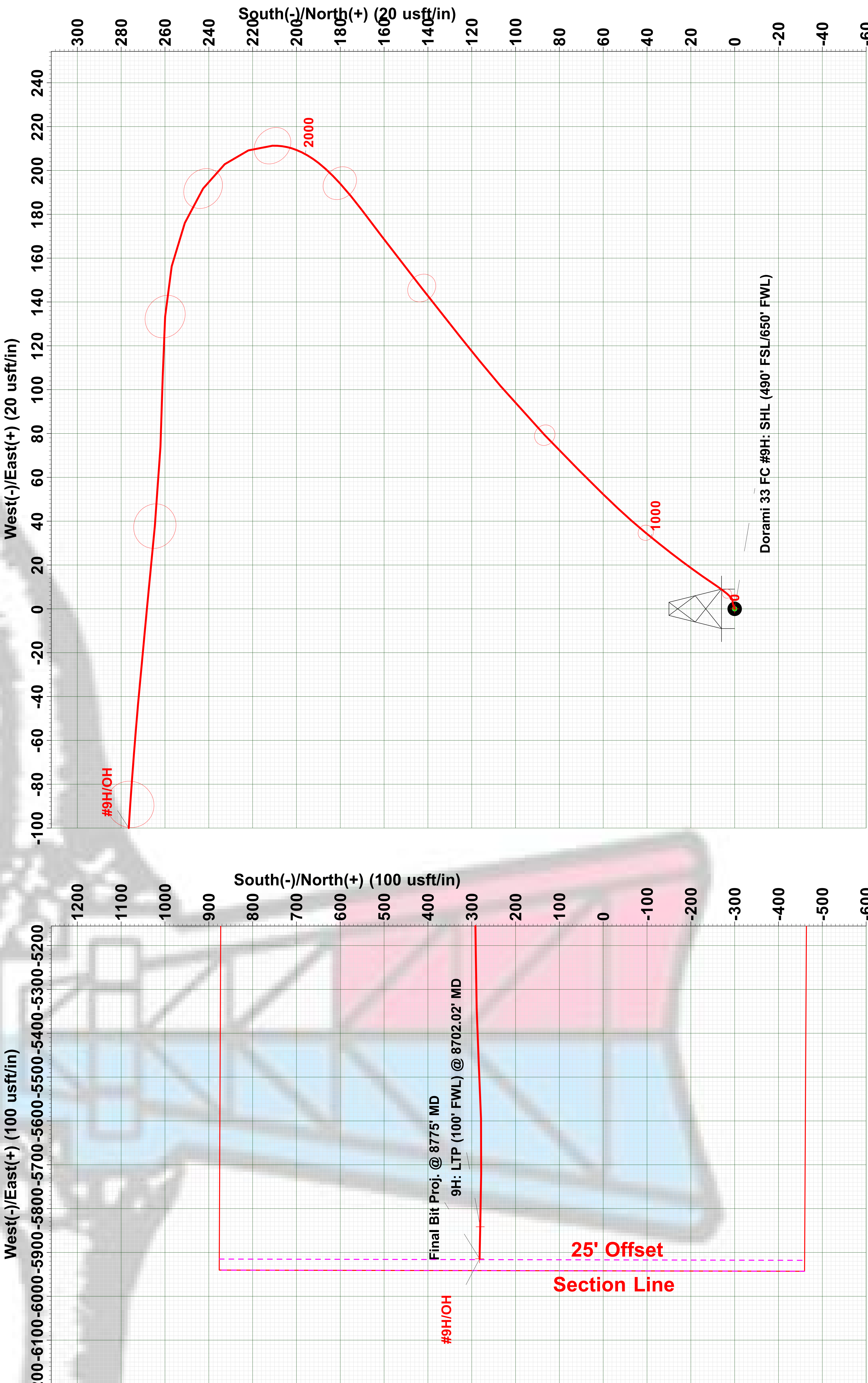
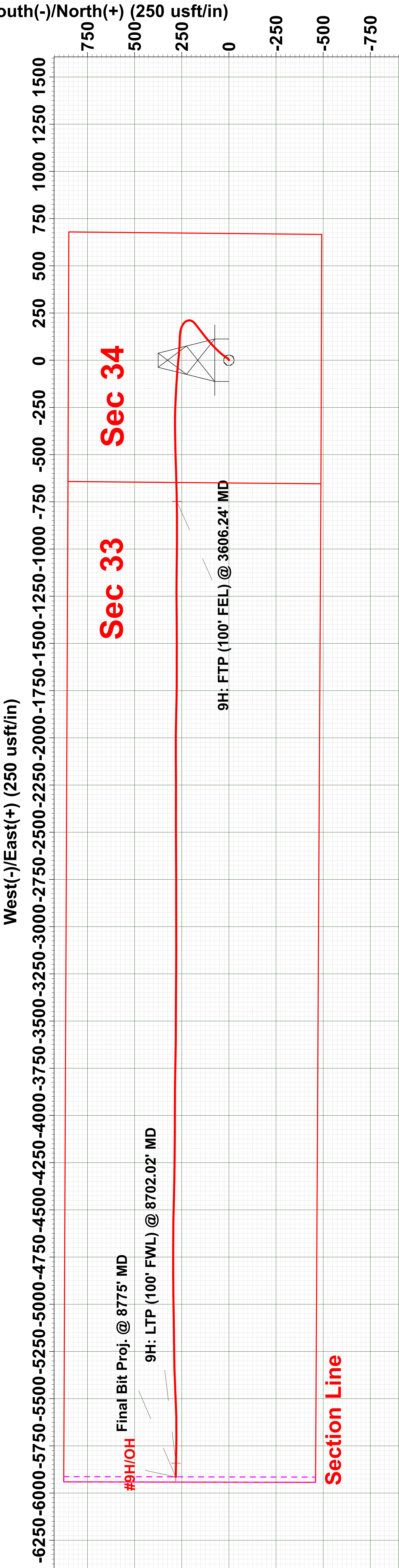


PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Final Station Closure Distance= 5921.13 /Direction= 272.73
Projection to Bit: 8775.00' MD/ 2958.93' TVD
TD: Latitude = 32.611816 / Longitude = -104.498340
TD: Y= 586348.99 / X= 490529.90

9H: FTP (100' FEL) @ 3606.24' MD

Vertical Section at 270.28° (200 usft/in)



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



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **02/09/20** thru **02/17/20** conduct or supervise the taking of a **MWD Survey** from a depth of **108'** to a depth of **8775'**; 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 **Dorami 33 Fed Com 9H** API No. **30-015-45929** 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:
2020.02.26
14:26:50 -06'00'



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Dorami 33 Fed Com

#9H

OH

Design: OH

End Of Well Report

18 February, 2020

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #9H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	RKB=20' @ 3548.00usft (Akita 57)
Site:	Dorami 33 Fed Com	MD Reference:	RKB=20' @ 3548.00usft (Akita 57)
Well:	#9H	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	Dorami 33 Fed Com		
Site Position:		Northing:	587,525.70 usft
From:	Map	Easting:	496,657.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.615075
		Longitude:	-104.478445
		Grid Convergence:	-0.078 °

Well	#9H			
Well Position	+N/-S	0.00 usft	Latitude:	32.611064
	+E/-W	0.00 usft	Longitude:	-104.479131
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft
			Ground Level:	3,528.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/8/2020	7.118	60.239	47,796.55108684

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		270.28		

Survey Program	Date	2/18/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
108.00	8,775.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM

Company: Spur Energy Partners, LLC				Local Co-ordinate Reference:				Well #9H			
Project: Eddy County, NM (NAD 83 - NME)				TVD Reference:				RKB=20' @ 3548.00usft (Akita 57)			
Site: Dorami 33 Fed Com				MD Reference:				RKB=20' @ 3548.00usft (Akita 57)			
Well: #9H				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
108.00	0.00	360.00	108.00	0.00	0.00	0.00	108.00	0.00	0.00	0.00	0.00
168.00	0.18	103.08	168.00	-0.02	0.09	-0.09	60.00	103.08	0.30	0.30	0.30
289.00	0.53	50.44	289.00	0.29	0.71	-0.71	121.00	63.06	0.37	0.37	0.37
411.00	0.92	81.38	410.99	0.80	2.11	-2.11	122.00	70.17	0.44	0.44	0.44
533.00	0.88	83.57	532.97	1.05	4.01	-4.01	122.00	82.45	0.04	0.04	0.04
654.00	2.95	39.89	653.90	3.54	6.93	-6.91	121.00	49.51	1.98	1.98	1.98
775.00	5.89	33.83	774.53	11.09	12.39	-12.33	121.00	35.85	2.46	2.46	2.46
897.00	8.75	36.64	895.52	23.74	21.41	-21.29	122.00	35.51	2.36	2.36	2.36
1,019.00	11.56	39.45	1,015.60	40.63	34.72	-34.52	122.00	38.24	2.34	2.34	2.34
1,140.00	13.45	44.46	1,133.73	60.04	52.28	-51.99	121.00	42.14	1.80	1.80	1.80
1,209.00	13.54	45.08	1,200.82	71.47	63.62	-63.27	69.00	44.77	0.25	0.25	0.25
1,301.00	13.89	46.31	1,290.20	86.70	79.23	-78.81	92.00	45.70	0.50	0.50	0.50
1,426.00	14.02	49.74	1,411.51	106.85	101.64	-101.11	125.00	48.03	0.67	0.67	0.67
1,552.00	12.66	51.58	1,534.11	125.29	124.10	-123.49	126.00	50.61	1.13	1.13	1.13
1,679.00	13.14	51.93	1,657.91	142.84	146.37	-145.67	127.00	51.76	0.38	0.38	0.38
1,805.00	14.15	52.72	1,780.35	161.00	169.90	-169.11	126.00	52.34	0.82	0.82	0.82
1,865.00	14.73	52.90	1,838.45	170.05	181.82	-180.99	60.00	52.81	0.97	0.97	0.97
1,931.00	13.41	47.98	1,902.47	180.23	194.20	-193.32	66.00	50.55	2.70	2.70	2.70
1,993.00	11.65	38.31	1,963.00	189.96	203.42	-202.49	62.00	43.48	4.41	4.41	4.41
2,056.00	10.20	21.35	2,024.87	200.15	209.40	-208.42	63.00	30.39	5.57	5.57	5.57
2,119.00	10.24	358.58	2,086.90	210.95	211.29	-210.26	63.00	9.94	6.37	6.37	6.37
2,181.00	10.86	340.04	2,147.87	221.95	209.16	-208.07	62.00	349.04	5.54	5.54	5.54
2,244.00	12.44	320.61	2,209.59	232.78	202.82	-201.68	63.00	329.67	6.67	6.67	6.67
2,307.00	15.03	304.18	2,270.81	242.62	191.75	-190.57	63.00	311.63	7.39	7.39	7.39
2,370.00	17.98	292.75	2,331.22	250.97	176.02	-174.79	63.00	297.97	6.94	6.94	6.94
2,433.00	20.44	281.59	2,390.73	256.94	156.27	-155.01	63.00	286.83	7.00	7.00	7.00

Company: Project: Site: Well: Wellbore: Design:				Spur Energy Partners, LLC Eddy County, NM (NAD 83 - NME) Dorami 33 Fed Com #9H OH OH				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:				Well #9H RKB=20' @ 3548.00usft (Akita 57) RKB=20' @ 3548.00usft (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)						
2,495.00	23.47	273.86	2,448.24	259.95	133.33	-132.06	62.00	277.47	6.74						
2,558.00	28.18	270.96	2,504.93	261.04	105.93	-104.65	63.00	272.29	7.74						
2,621.00	33.01	272.63	2,559.15	262.08	73.89	-72.61	63.00	271.85	7.78						
2,684.00	37.27	275.35	2,610.66	264.65	37.74	-36.44	63.00	274.06	7.20						
2,745.00	41.27	275.61	2,657.87	268.34	-0.69	2.00	61.00	275.49	6.56						
2,808.00	44.79	275.00	2,703.92	272.31	-43.49	44.82	63.00	275.29	5.63						
2,871.00	48.66	273.94	2,747.10	275.87	-89.21	90.56	63.00	274.45	6.26						
2,932.00	52.75	273.24	2,785.72	278.81	-136.31	137.67	61.00	273.58	6.76						
2,995.00	56.00	272.98	2,822.41	281.59	-187.44	188.81	63.00	273.11	5.17						
3,059.00	58.99	272.36	2,856.80	284.10	-241.35	242.73	64.00	272.66	4.74						
3,090.00	59.91	271.92	2,872.56	285.09	-268.03	269.42	31.00	272.14	3.21						
3,122.00	60.00	271.40	2,888.58	285.90	-295.72	297.11	32.00	271.66	1.43						
3,153.00	60.31	270.08	2,904.01	286.24	-322.60	324.00	31.00	270.74	3.83						
3,184.00	60.66	269.02	2,919.28	286.03	-349.58	350.97	31.00	269.55	3.18						
3,216.00	61.01	269.11	2,934.88	285.57	-377.52	378.91	32.00	269.07	1.12						
3,247.00	61.23	269.11	2,949.85	285.15	-404.66	406.05	31.00	269.11	0.71						
3,279.00	61.98	269.02	2,965.06	284.69	-432.80	434.19	32.00	269.06	2.36						
3,310.00	64.88	268.67	2,978.93	284.13	-460.52	461.90	31.00	268.84	9.41						
3,373.00	70.15	268.41	3,003.01	282.65	-518.69	520.07	63.00	268.54	8.37						
3,436.00	76.04	267.97	3,021.33	280.74	-578.91	580.28	63.00	268.19	9.37						
3,499.00	81.85	268.41	3,033.40	278.79	-640.69	642.04	63.00	268.19	9.25						
3,562.00	85.23	268.85	3,040.49	277.30	-703.26	704.61	63.00	268.63	5.41						
3,624.00	88.00	269.37	3,044.15	276.34	-765.14	766.48	62.00	269.11	4.55						
3,687.00	88.57	269.55	3,046.03	275.74	-828.11	829.44	63.00	269.46	0.95						
3,837.00	90.15	270.34	3,047.71	275.60	-978.09	979.43	150.00	269.95	1.18						
3,962.00	91.34	270.96	3,046.08	277.02	-1,103.07	1,104.41	125.00	270.65	1.07						
4,086.00	91.74	269.99	3,042.75	278.04	-1,227.02	1,228.36	124.00	270.48	0.85						

Company: Spur Energy Partners, LLC				Local Co-ordinate Reference:						
Project: Eddy County, NM (NAD 83 - NME)				TVD Reference:						
Site: Dorami 33 Fed Corn				MD Reference:						
Well: #9H				North Reference:						
Wellbore: OH				Survey Calculation Method:						
Design: OH				Database:						
Well #9H				RKB=20' @ 3548.00usft (Akita 57)						
				RKB=20' @ 3548.00usft (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)	
4,212.00	90.90	269.20	3,039.85	277.15	-1,352.98	1,354.32	126.00	269.59	0.92	
4,338.00	91.74	270.16	3,036.95	276.45	-1,478.94	1,480.28	126.00	269.68	1.01	
4,464.00	90.02	269.90	3,035.01	276.52	-1,604.92	1,606.25	126.00	270.03	1.38	
4,590.00	90.64	270.43	3,034.29	276.88	-1,730.92	1,732.25	126.00	270.16	0.65	
4,716.00	91.43	271.57	3,032.01	279.08	-1,856.88	1,858.22	126.00	271.00	1.10	
4,842.00	89.76	270.78	3,030.70	281.66	-1,982.84	1,984.19	126.00	271.17	1.47	
4,969.00	89.41	269.29	3,031.62	281.74	-2,109.83	2,111.18	127.00	270.04	1.21	
5,094.00	90.29	269.90	3,031.95	280.85	-2,234.82	2,236.17	125.00	269.60	0.86	
5,221.00	91.30	270.43	3,030.19	281.22	-2,361.81	2,363.16	127.00	270.16	0.90	
5,347.00	90.73	269.46	3,027.95	281.10	-2,487.79	2,489.13	126.00	269.94	0.89	
5,473.00	91.65	269.90	3,025.34	280.40	-2,613.76	2,615.10	126.00	269.68	0.81	
5,600.00	90.86	269.73	3,022.56	279.99	-2,740.72	2,742.06	127.00	269.81	0.64	
5,726.00	92.26	270.25	3,019.13	279.96	-2,866.67	2,868.01	126.00	269.99	1.19	
5,852.00	90.81	269.55	3,015.75	279.74	-2,992.62	2,993.96	126.00	269.90	1.28	
5,977.00	92.04	270.08	3,012.64	279.34	-3,117.58	3,118.91	125.00	269.81	1.07	
6,099.00	90.95	270.34	3,009.46	279.79	-3,239.54	3,240.87	122.00	270.21	0.92	
6,221.00	91.69	270.60	3,006.65	280.79	-3,361.50	3,362.83	122.00	270.47	0.64	
6,343.00	90.24	269.99	3,004.59	281.42	-3,483.48	3,484.81	122.00	270.29	1.29	
6,464.00	91.16	270.43	3,003.12	281.86	-3,604.47	3,605.80	121.00	270.21	0.84	
6,585.00	92.35	271.40	2,999.41	283.79	-3,725.39	3,726.73	121.00	270.91	1.27	
6,706.00	91.12	270.78	2,995.75	286.09	-3,846.31	3,847.66	121.00	271.09	1.14	
6,828.00	90.24	269.73	2,994.30	286.63	-3,968.30	3,969.65	122.00	270.25	1.12	
6,950.00	91.21	270.43	2,992.76	286.80	-4,090.29	4,091.64	122.00	270.08	0.98	
7,072.00	89.85	270.52	2,991.63	287.81	-4,212.27	4,213.63	122.00	270.48	1.12	
7,195.00	90.11	270.87	2,991.67	289.31	-4,335.26	4,336.63	123.00	270.70	0.35	
7,322.00	90.81	271.75	2,990.65	292.21	-4,462.22	4,463.60	127.00	271.31	0.89	
7,449.00	89.98	270.69	2,989.77	294.91	-4,589.19	4,590.58	127.00	271.22	1.06	

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:		Well #9H
Project: Eddy County, NM (NAD 83 - NME)		TVD Reference:		RKB=20' @ 3548.00usft (Akita 57)
Site: Dorami 33 Fed Corn		MD Reference:		RKB=20' @ 3548.00usft (Akita 57)
Well: #9H		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 (°)	D Leg (°/100ft)
7,575.00	90.42	269.99	2,989.33	295.66	-4,715.19	4,716.57	126.00	270.34	0.66
7,701.00	91.38	269.99	2,987.36	295.64	-4,841.17	4,842.56	126.00	269.99	0.76
7,827.00	90.59	268.93	2,985.19	294.45	-4,967.14	4,968.52	126.00	269.46	1.05
7,953.00	92.18	269.18	2,982.14	292.37	-5,093.08	5,094.45	126.00	269.05	1.28
8,077.00	92.44	269.37	2,977.15	290.81	-5,216.97	5,218.33	124.00	269.27	0.26
8,203.00	93.10	268.85	2,971.06	288.85	-5,342.81	5,344.16	126.00	269.11	0.67
8,329.00	90.68	266.74	2,966.90	284.01	-5,468.63	5,469.95	126.00	267.79	2.55
8,455.00	90.55	268.67	2,965.55	278.96	-5,594.52	5,595.81	126.00	267.71	1.54
8,581.00	91.34	270.96	2,963.47	278.55	-5,720.49	5,721.78	126.00	269.81	1.92
8,709.00	91.34	271.13	2,960.48	280.89	-5,848.43	5,849.74	128.00	271.05	0.13
8,775.00	91.34	271.13	2,958.93	282.19	-5,914.40	5,915.71	66.00	271.13	0.00
Final Station Closure Distance= 5921.13 /Direction= 272.73 - Projection to Bit: 8775.00' MD/ 2958.93' TVD - TD: Latitude = 32.611816 / Longitude = -104.498340 - TD: Y= 586348.99 / X= 490529.90									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
8,775.00	2,958.93	282.19	-5,914.40	Final Station Closure Distance= 5921.13 /Direction= 272.73
8,775.00	2,958.93	282.19	-5,914.40	Projection to Bit: 8775.00' MD/ 2958.93' TVD
8,775.00	2,958.93	282.19	-5,914.40	TD: Latitude = 32.611816 / Longitude = -104.498340
8,775.00	2,958.93	282.19	-5,914.40	TD: Y= 586348.99 / X= 490529.90

Checked By: _____	Approved By: _____	Date: _____
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