



June 27, 2018

Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 13 2018

RECEIVED

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of May 22, 2018, through June 7, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 479feet to a depth of 15,314feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Rock Spur 27 W2AP State #001H well, API # 30-015-44092 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



June 27, 2018

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

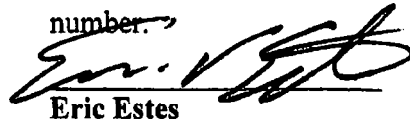
Re: Mewbourne Oil Company
Rock Spur 27 W2AP State #001H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44092

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Roy Lum	Original Hole	479ft. to 15,314ft.	05-22-18 to 06-07-18	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone

number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Rock Spur 27 W2AP State #1H\M181055

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Stryker Directional MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 27-24S-28E Rock Spur 27 WZAP St Corr
Well: Rock Spur 27 WZAP State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 WZAP State Com 1H
TVD Reference: 2863 + 27 @ 2890.0usft (Patterson 280)
MD Reference: 2863 + 27 @ 2890.0usft (Patterson 280)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 27-24S-28E Rock Spur 27 WZAP St Corr 1H		
Site Position:		Northing:	434,898.70 usft
From:	Map	Easting:	622,932.60 usft
Position Uncertainty:	0.0 usft	Spot Radius:	13-3/16 "
		Latitude:	32° 11' 43.219 N
		Longitude:	104° 4' 10.390 W
		Grid Convergence:	0.14 "

Well	Rock Spur 27 WZAP State Com 1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 11' 43.219 N
		Longitude:	104° 4' 10.390 W
		Ground Level:	2,863.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	4/18/2018	7.09
			Dip Angle
			59.88
			Field Strength
			47,785.44621439

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			154.74

Survey Program	Date 6/7/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
479.0	18,370.0	MWD Survey (Original Hole)	MWD
			Description
			MWD v3: standard declination



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Design: Original Hole

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MD Reference: 2983 + 27 @ 2990.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
375.0	0.43	35.98	375.0	2,615.0	1.6	-1.1	1.9	326.31	Tie-In
479.0	0.30	317.80	479.0	2,611.0	2.1	-1.0	2.4	334.19	
540.0	0.80	292.60	540.0	2,450.0	2.4	-1.5	2.9	327.61	
601.0	1.50	269.30	601.0	2,389.0	2.6	-2.7	3.7	313.33	
662.0	0.50	237.00	662.0	2,328.0	2.4	-3.7	4.5	302.82	
723.0	0.70	137.40	723.0	2,267.0	2.0	-3.7	4.2	298.25	
784.0	0.80	123.90	784.0	2,208.0	1.8	-3.1	3.4	295.52	
845.0	1.20	119.10	844.9	2,145.1	0.9	-2.2	2.4	293.08	
942.0	0.70	42.60	941.9	2,048.1	0.9	-0.9	1.3	313.96	
1,035.0	1.60	358.60	1,034.9	1,955.1	2.6	-0.6	2.7	347.83	
1,129.0	0.90	283.20	1,128.9	1,881.1	4.1	-1.3	4.3	342.18	
1,222.0	2.00	254.80	1,221.9	1,768.1	3.8	-3.6	5.2	316.78	
1,316.0	0.20	352.70	1,315.9	1,674.1	3.6	-5.2	6.3	304.37	
1,409.0	2.10	71.10	1,408.8	1,581.2	4.3	-3.6	5.6	319.82	
1,503.0	1.60	53.90	1,502.8	1,487.2	5.5	-1.0	5.6	350.01	
1,596.0	1.00	242.50	1,595.8	1,394.2	5.9	-0.7	5.9	353.10	
1,690.0	3.00	234.90	1,689.7	1,300.3	4.1	-3.6	5.4	319.86	
1,783.0	1.80	219.20	1,782.6	1,207.4	1.6	-6.4	6.6	283.80	
1,877.0	1.40	91.90	1,876.6	1,113.4	0.4	-6.2	6.2	273.55	
1,970.0	3.50	79.90	1,869.6	1,020.6	0.8	-2.2	2.4	290.76	
2,064.0	2.20	99.90	2,063.4	926.6	1.0	2.4	2.6	66.49	
2,167.0	1.60	219.80	2,166.4	833.6	-0.2	3.4	3.4	93.83	
2,251.0	2.30	231.30	2,250.3	739.7	-2.3	1.1	2.6	154.74	
2,344.0	1.10	208.40	2,343.3	646.7	-4.3	-0.8	4.4	189.94	
2,432.0	0.80	131.40	2,431.3	558.7	-6.5	-0.6	5.5	186.32	
2,533.0	0.70	112.40	2,532.3	457.7	-6.3	0.6	6.3	174.94	
2,627.0	2.00	63.10	2,626.2	383.8	-5.7	2.5	6.3	156.09	



Stryker Directional MWD Surveys



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Wellbore: Original Hole
Design: Original Hole

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MD Reference: 2983 + 27 @ 2990.0usft (Patterson 250)
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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,720.0	5.20	57.90	2,719.0	271.0	-2.8	7.6	8.1	110.13
2,813.0	5.20	58.20	2,811.7	178.3	1.7	14.7	14.8	83.48
2,907.0	3.00	60.20	2,905.4	64.6	5.2	20.5	21.1	75.87
3,000.0	2.20	61.80	2,998.3	-8.3	7.2	24.2	25.2	73.39
3,094.0	3.30	53.30	3,092.2	-102.2	9.7	27.9	29.5	70.88
3,187.0	4.10	50.60	3,186.0	-195.0	13.4	32.6	35.3	67.69
3,281.0	4.10	50.00	3,278.8	-288.8	17.7	37.8	41.7	64.92
3,374.0	3.80	48.10	3,371.6	-381.6	21.9	42.6	47.9	62.83
3,467.0	3.40	49.40	3,464.4	-474.4	25.7	47.0	53.6	61.31
3,561.0	3.40	41.80	3,558.2	-568.2	29.6	51.0	59.0	59.85
3,654.0	3.70	61.40	3,651.0	-661.0	33.1	55.5	64.8	59.16
3,748.0	4.60	67.20	3,744.8	-754.8	36.0	61.6	71.4	59.88
3,841.0	3.80	75.20	3,837.5	-847.5	38.3	68.0	78.1	60.64
3,936.0	3.80	76.70	3,931.3	-941.3	39.8	74.1	84.1	61.76
4,028.0	3.40	76.80	4,024.1	-1,034.1	41.1	79.8	89.7	62.73
4,121.0	3.10	70.50	4,117.0	-1,127.0	42.6	84.8	94.9	63.34
4,216.0	2.80	73.90	4,210.9	-1,220.9	44.1	89.4	99.7	63.76
4,308.0	3.60	69.00	4,303.7	-1,313.7	45.7	94.3	104.8	64.13
4,402.0	4.70	66.30	4,397.5	-1,407.5	48.4	100.6	111.6	64.33
4,495.0	6.10	69.80	4,490.1	-1,500.1	51.3	108.0	119.5	64.58
4,589.0	6.40	69.00	4,583.7	-1,593.7	54.3	116.0	128.1	64.90
4,682.0	4.70	77.50	4,678.4	-1,688.4	66.7	123.8	138.2	65.38
4,776.0	4.70	88.30	4,770.1	-1,780.1	57.7	131.4	143.5	66.31
4,870.0	3.30	87.00	4,863.8	-1,873.8	67.9	138.0	149.7	67.22
4,963.0	2.70	70.10	4,956.7	-1,966.7	58.8	142.7	154.4	67.60
5,057.0	3.20	57.30	5,050.6	-2,060.6	61.0	147.0	159.2	67.47
5,150.0	3.50	52.60	5,143.4	-2,153.4	64.1	151.4	164.5	67.05



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Survey

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5,243.0	3.00	55.10	5,236.3	-2,246.3	67.2	155.7	169.6	66.64
5,337.0	2.50	55.20	5,330.2	-2,340.2	69.8	159.4	174.0	66.35
5,430.0	3.70	50.50	5,423.0	-2,433.0	72.9	163.4	178.9	65.96
5,524.0	5.10	61.30	5,516.8	-2,526.8	76.8	169.4	186.0	65.61
5,617.0	5.10	67.50	5,609.4	-2,619.4	80.4	176.8	194.2	65.55
5,711.0	4.60	66.30	5,703.1	-2,713.1	83.5	184.1	202.2	65.61
5,804.0	4.00	71.50	5,795.8	-2,805.8	86.0	190.6	209.1	65.71
5,898.0	4.00	74.50	5,889.6	-2,899.6	87.9	196.9	215.6	65.93
5,991.0	3.80	72.30	5,982.3	-2,992.3	89.7	203.0	221.9	66.15
6,077.0	3.80	76.10	6,068.2	-3,078.2	91.3	208.4	227.6	66.35
6,170.0	3.60	73.20	6,161.0	-3,171.0	92.9	214.2	233.5	66.56
6,264.0	4.40	82.60	6,254.7	-3,264.7	95.4	220.3	240.0	66.58
6,357.0	4.00	87.70	6,347.5	-3,357.5	98.3	226.4	246.6	66.54
6,451.0	2.60	85.70	6,441.3	-3,451.3	100.4	231.4	252.2	66.55
6,545.0	3.20	57.20	6,535.2	-3,545.2	102.7	235.6	257.0	66.45
6,638.0	2.90	57.50	6,628.1	-3,638.1	105.4	239.7	261.9	66.27
6,731.0	3.40	59.40	6,720.9	-3,730.9	108.0	244.1	266.9	66.13
6,825.0	4.60	60.10	6,814.7	-3,824.7	111.3	249.7	273.4	65.98
6,918.0	5.60	48.60	6,907.3	-3,917.3	116.2	256.4	281.5	65.62
7,012.0	6.50	44.50	7,000.8	-4,010.8	123.0	263.6	290.6	64.98
7,106.0	6.10	48.80	7,094.2	-4,104.2	130.1	271.0	300.6	64.36
7,199.0	5.80	50.90	7,186.7	-4,196.7	136.3	278.4	310.0	63.91
7,293.0	4.90	52.20	7,280.3	-4,290.3	141.8	285.3	318.5	63.57
7,387.0	5.90	55.40	7,373.9	-4,383.9	147.0	292.4	327.3	63.31
7,480.0	3.60	59.50	7,468.6	-4,476.6	151.2	298.9	334.9	63.17
7,573.0	2.80	70.20	7,559.4	-4,569.4	153.4	303.5	340.1	63.18
7,667.0	4.40	48.90	7,653.3	-4,663.3	156.6	308.4	345.9	63.08



Stryker Directional MWD Surveys



Company: Mewbourne Oil Company
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Site: Section 27-24S-28E Rock Spur 27 W2AP St Cor
Well: Rock Spur 27 W2AP State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 W2AP State Com 1H
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Survey Calculation Method: Minimum Curvature
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
7,760.0	4.70	42.60	7,746.0	-4,756.0	161.7	313.7	352.9	62.72
7,854.0	4.40	47.40	7,839.7	-4,849.7	167.0	318.9	360.0	62.36
7,947.0	4.50	44.70	7,932.4	-4,942.4	172.0	324.1	366.9	62.05
8,041.0	4.10	48.20	8,026.1	-5,036.1	176.9	329.2	373.7	61.75
8,134.0	2.90	46.70	8,119.0	-5,129.0	180.7	333.4	379.2	61.54
8,228.0	2.60	53.00	8,212.8	-5,222.8	183.8	336.8	383.6	61.41
8,321.0	1.80	46.60	8,305.8	-5,315.8	185.9	339.6	387.1	61.30
8,415.0	1.90	55.30	8,399.7	-5,409.7	187.8	341.9	390.1	61.23
8,509.0	3.00	35.30	8,493.6	-5,503.6	190.7	344.6	393.9	61.05
8,602.0	4.50	28.20	8,588.4	-5,596.4	195.9	347.8	399.1	60.61
8,695.0	4.90	38.50	8,679.1	-5,689.1	202.2	352.0	405.9	60.12
8,789.0	4.10	59.80	8,772.8	-5,782.8	207.0	357.4	413.0	59.91
8,882.0	3.80	65.50	8,865.6	-5,875.6	209.9	362.9	419.2	59.95
8,975.0	2.80	60.40	8,958.5	-5,968.5	212.3	367.5	424.4	59.99
9,069.0	2.50	63.30	9,052.4	-6,062.4	214.3	371.4	428.8	60.01
9,163.0	2.80	74.70	9,146.3	-6,156.3	215.8	375.4	433.0	60.10
9,256.0	2.90	76.30	9,239.2	-6,249.2	217.0	379.9	437.5	60.26
9,350.0	3.30	69.80	9,333.0	-6,343.0	218.5	384.7	442.4	60.41
9,444.0	2.80	63.50	9,426.9	-6,436.9	220.4	389.3	447.4	60.48
9,538.0	2.10	67.70	9,520.8	-6,530.8	222.4	392.8	451.4	60.49
9,631.0	1.80	62.50	9,613.8	-6,623.8	224.0	395.6	454.8	60.48
9,725.0	1.70	85.80	9,707.7	-6,717.7	224.8	398.3	457.3	60.56
9,819.0	1.70	99.10	9,801.7	-6,811.7	224.6	401.0	459.7	60.74
9,913.0	1.80	101.50	9,895.6	-6,905.6	224.1	403.9	461.9	60.97
9,917.6	1.75	101.86	9,900.2	-6,910.2	224.1	404.0	462.0	60.98
B.B. Rock Spur 27 W2AP St Com 1H 10,006.0	0.90	115.80	9,988.6	-6,998.6	223.5	406.0	463.4	61.16



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10,088.0	3.60	163.70	10,088.5	-7,078.6	220.8	407.2	463.2	61.53
10,117.0	6.30	172.20	10,099.4	-7,109.4	218.2	407.7	462.4	61.84
10,148.0	10.10	171.70	10,130.1	-7,140.1	213.8	408.4	461.0	62.36
10,178.0	14.20	173.00	10,160.4	-7,170.4	207.4	409.2	458.8	63.13
10,210.0	17.50	180.40	10,190.2	-7,200.2	198.9	409.6	455.4	64.10
10,241.0	20.20	184.20	10,219.6	-7,229.6	188.9	409.2	450.7	65.22
10,273.0	23.60	186.80	10,249.2	-7,259.2	177.0	408.2	444.9	66.55
10,304.0	27.30	184.80	10,277.2	-7,287.2	163.8	406.9	436.7	68.08
10,335.0	29.30	185.50	10,304.5	-7,314.5	149.1	405.6	432.2	69.81
10,367.0	32.00	183.20	10,332.1	-7,342.1	132.9	404.4	425.7	71.81
10,398.0	36.00	181.10	10,357.7	-7,367.7	115.6	403.8	420.0	74.03
10,429.0	39.80	179.40	10,382.2	-7,392.2	96.5	403.7	415.1	76.55
10,460.0	44.10	178.00	10,405.3	-7,415.3	75.8	404.2	411.2	79.36
10,492.0	49.10	177.20	10,427.2	-7,437.2	52.6	405.1	408.5	82.60
10,523.0	52.30	177.10	10,448.9	-7,458.9	28.6	406.3	407.3	85.97
10,554.0	54.30	176.90	10,465.4	-7,475.4	3.8	407.6	407.7	89.46
10,586.0	56.20	176.10	10,483.6	-7,493.6	-22.4	409.2	409.9	93.14
10,617.0	58.40	175.80	10,500.4	-7,510.4	-48.4	411.1	413.9	96.72
10,648.0	60.70	175.60	10,516.1	-7,526.1	-75.1	413.1	419.9	100.30
10,679.0	63.50	175.80	10,530.6	-7,540.6	-102.4	415.2	427.6	103.85
10,711.0	65.50	176.10	10,544.4	-7,554.4	-131.2	417.3	437.4	107.45
10,742.0	67.90	176.80	10,558.6	-7,568.6	-159.6	419.0	446.4	110.85
10,760.0	69.50	177.30	10,563.2	-7,573.2	-176.4	419.9	455.4	112.78
10,828.0	73.20	177.50	10,584.9	-7,594.9	-240.7	422.8	466.6	119.65
10,859.0	77.10	177.40	10,592.9	-7,602.9	-270.7	424.2	503.2	122.54
10,890.0	78.90	177.50	10,599.3	-7,609.3	-300.9	425.5	521.2	125.27
10,921.0	79.70	178.00	10,605.1	-7,615.1	-331.4	426.7	540.3	127.83



Stryker Directional MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 27-24S-28E Rock Spur 27 W2AP St Cor
Well: Rock Spur 27 W2AP State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 W2AP State Com 1H
TVD Reference: 2963 + 27 @ 2990.0usft (Patterson 250)
MD Reference: 2963 + 27 @ 2990.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,953.0	81.80	178.80	10,610.2	-7,620.2	-363.0	427.6	560.9	130.33
10,984.0	83.90	178.60	10,614.1	-7,624.1	-393.7	428.3	581.7	132.59
11,015.0	85.10	179.30	10,617.0	-7,627.0	-424.6	428.9	603.5	134.71
11,046.0	86.20	179.40	10,619.4	-7,629.4	-455.5	429.2	625.8	136.70
11,077.0	88.10	179.40	10,620.9	-7,630.9	-486.4	429.5	648.9	138.55
11,108.0	88.40	179.80	10,621.9	-7,631.9	-517.4	429.7	672.6	140.29
11,161.7	89.96	180.90	10,622.6	-7,632.6	-571.1	429.4	714.5	143.06
LP Rock Spur 27 W2AP St Com 1H								
11,201.0	91.10	181.70	10,622.3	-7,632.3	-610.4	428.5	745.8	144.93
11,285.0	88.70	181.10	10,622.4	-7,632.4	-704.3	426.2	823.3	148.82
11,368.0	85.00	179.00	10,627.5	-7,637.5	-797.2	426.1	903.9	151.87
11,481.0	86.50	178.80	10,634.4	-7,644.4	-889.9	427.9	987.6	154.32
11,575.0	88.30	176.80	10,638.7	-7,648.7	-983.7	431.5	1,074.2	156.31
11,668.0	89.00	179.20	10,640.9	-7,650.9	-1,076.6	434.8	1,161.1	158.01
11,762.0	89.10	176.50	10,642.5	-7,652.5	-1,170.6	438.3	1,249.9	159.47
11,855.0	91.60	175.20	10,641.9	-7,651.9	-1,263.3	445.0	1,339.4	160.59
11,948.0	91.30	177.60	10,639.5	-7,649.5	-1,358.1	450.9	1,429.1	161.61
12,042.0	92.20	180.90	10,638.7	-7,646.7	-1,450.0	452.1	1,518.9	162.88
12,136.0	91.00	181.10	10,634.0	-7,644.0	-1,544.0	450.6	1,608.3	163.74
12,229.0	89.90	181.10	10,633.3	-7,643.3	-1,636.9	448.7	1,697.3	164.67
12,323.0	89.50	180.50	10,633.8	-7,643.8	-1,730.9	447.4	1,787.8	165.51
12,416.0	88.50	179.80	10,635.4	-7,645.4	-1,823.9	447.1	1,877.9	166.23
12,510.0	88.50	179.40	10,637.9	-7,647.9	-1,917.9	447.8	1,969.5	166.86
12,603.0	94.70	183.70	10,635.3	-7,645.3	-2,010.7	445.3	2,059.5	167.51
12,696.0	89.80	183.20	10,631.6	-7,641.6	-2,103.5	439.7	2,148.9	168.19
12,780.0	87.40	180.80	10,633.9	-7,643.9	-2,197.4	436.4	2,240.3	168.77
12,863.0	90.20	182.10	10,635.9	-7,645.9	-2,290.3	434.0	2,331.1	169.27



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Local Co-ordinate Reference: Well Rock Spur 27 WZAP State Com 1H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,978.0	87.00	181.90	10,638.2	-7,648.2	-2,383.2	430.8	2,421.8	169.75
13,070.0	86.60	181.10	10,643.4	-7,653.4	-2,477.0	428.3	2,513.8	170.19
13,163.0	88.00	180.90	10,647.8	-7,657.8	-2,569.9	428.7	2,605.1	170.57
13,257.0	90.10	182.00	10,649.3	-7,659.3	-2,663.9	424.3	2,697.5	170.95
13,350.0	91.30	183.10	10,648.2	-7,658.2	-2,756.8	420.2	2,788.6	171.33
13,444.0	89.50	180.30	10,647.5	-7,657.5	-2,850.7	417.4	2,881.1	171.67
13,537.0	88.70	179.80	10,649.0	-7,659.0	-2,943.7	417.3	2,973.1	171.93
13,630.0	90.90	181.10	10,649.3	-7,659.3	-3,036.7	416.8	3,065.1	172.19
13,723.0	90.10	178.20	10,648.5	-7,658.5	-3,129.7	417.2	3,157.4	172.41
13,817.0	90.00	179.00	10,648.4	-7,658.4	-3,223.6	419.5	3,250.8	172.59
13,910.0	87.50	178.70	10,650.5	-7,660.5	-3,316.6	421.3	3,343.2	172.76
14,003.0	90.80	181.00	10,651.8	-7,661.8	-3,409.6	421.6	3,435.5	172.95
14,097.0	88.20	179.00	10,652.7	-7,662.7	-3,503.5	421.6	3,528.8	173.14
14,190.0	87.40	178.00	10,656.2	-7,666.2	-3,596.4	424.0	3,621.4	173.28
14,283.0	89.80	178.80	10,658.5	-7,668.5	-3,689.4	426.6	3,714.0	173.40
14,377.0	90.50	178.80	10,658.3	-7,668.3	-3,783.3	428.6	3,807.5	173.54
14,468.0	88.70	177.40	10,658.9	-7,668.9	-3,874.3	431.6	3,898.3	173.64
14,561.0	88.40	178.00	10,661.2	-7,671.2	-3,967.2	435.3	3,991.0	173.74
14,654.0	88.40	177.90	10,663.8	-7,673.8	-4,060.1	438.6	4,083.7	173.83
14,747.0	88.60	178.10	10,666.3	-7,676.3	-4,153.0	441.9	4,176.4	173.93
14,840.0	92.50	180.10	10,665.4	-7,675.4	-4,246.0	443.4	4,269.0	174.04
14,933.0	90.10	179.80	10,663.3	-7,673.3	-4,338.9	443.4	4,361.5	174.16
15,026.0	89.90	179.80	10,663.3	-7,673.3	-4,431.9	443.8	4,454.1	174.28
15,119.0	83.70	177.60	10,668.5	-7,678.5	-4,524.7	445.9	4,546.6	174.37
15,212.0	84.80	179.80	10,677.8	-7,687.8	-4,617.2	448.0	4,638.9	174.46
15,314.0	85.10	180.30	10,686.8	-7,696.8	-4,718.8	447.9	4,740.0	174.58



Stryker Directional MWD Surveys



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MD Reference: 2963 + 27 @ 2990.0usft (Patterson 250)
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Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,370.0	85.10	180.30	10,691.5	-7,701.5	-4,774.6	447.6	4,795.5	174.64

15370.0' MD Projected to Bit - PBHL Rock Spur 27 W2AP St Com1H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,370.0	10,691.5	-4,774.6	447.6	15370.0' MD Projected to Bit

