



PRODIRECTIONAL



Tiger 14-24S-28E RB No. 222H(ST01)

Eddy County, NM

30-015-44119

June 19, 2017

Job No. LNM5137117

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

June 19, 2017



Operator Name: Matador Resources
Well Name: Tiger 14-24S-28E RB No. 222H(ST01)
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5137117

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Projection to Bit</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	10,249' MD – 15,778' MD	15,844' MD	04/28/17 – 05/23/17	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

**Eddy County, NM
Tiger 14-24S-28E RB
No. 222H
ST01**

Survey: ProDirectional

Survey Report

23 May, 2017





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM	TVD Reference:	Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Well:	No. 222H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WellPlanner1

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Tiger 14-24S-28E RB		
Site Position:		Northing:	440,880.00 usft
From:	Map	Easting:	587,752.00 usft
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 42.400 N
		Longitude:	104° 2' 58.574 W
		Grid Convergence:	0.15 °

Well	No. 222H		
Well Position	+N/-S	0.00 usft	Northing: 443,860.00 usft
	+E/-W	0.00 usft	Easting: 587,601.00 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: usft
			Latitude: 32° 13' 11.895 N
			Longitude: 104° 3' 0.240 W
			Ground Level: 2,964.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/24/2017	7.27	60.07	48,131.90

Design	ST01			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 10,201.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	272.75



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 222H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 222H
Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Grid
Minimum Curvature
WellPlanner1

Survey Program Date 5/23/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.00	10,201.00	Survey #1 (OH)	MWD - OWSG	MWD - OWSG
10,249.00	15,844.00	Survey #1 (ST01)	MWD - OWSG	MWD - OWSG

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (")	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	443,860.00	587,601.00
169.00	1.30	82.20	168.99	-1.88	0.26	1.90	1.92	82.20	443,860.26	587,602.90
323.00	1.40	63.10	322.94	-5.24	1.35	5.31	5.48	75.75	443,861.35	587,606.31
505.00	1.50	77.80	504.89	-9.47	2.86	9.62	10.03	73.45	443,862.86	587,610.62
693.00	1.80	72.60	692.81	-14.62	4.26	14.84	15.44	73.98	443,864.26	587,615.84
877.00	0.90	73.10	876.75	-18.69	5.54	18.98	19.78	73.72	443,865.54	587,619.98
1,068.00	0.90	74.20	1,067.73	-21.53	6.39	21.86	22.78	73.71	443,866.39	587,622.86
1,259.00	3.40	110.20	1,258.59	-28.36	4.84	28.62	29.03	80.40	443,864.84	587,629.62
1,447.00	3.20	120.30	1,446.28	-38.33	0.27	38.38	38.38	89.60	443,860.27	587,639.38
1,637.00	2.70	116.40	1,636.02	-47.13	-4.40	46.97	47.18	95.35	443,855.60	587,647.97
1,828.00	3.30	97.20	1,826.77	-56.73	-7.09	56.45	56.90	97.15	443,852.91	587,657.45
2,018.00	4.00	115.20	2,016.39	-68.31	-10.59	67.88	68.70	98.87	443,849.41	587,668.88
2,209.00	4.20	118.90	2,206.90	-80.74	-16.81	80.03	81.77	101.86	443,843.19	587,681.03
2,399.00	7.00	103.60	2,395.98	-98.36	-22.90	97.38	100.03	103.23	443,837.10	587,698.38
2,590.00	4.90	86.40	2,585.96	-117.90	-25.12	116.83	119.50	102.13	443,834.88	587,717.83
2,708.00	4.50	93.10	2,703.56	-127.54	-25.05	126.48	128.94	101.20	443,834.95	587,727.48
2,907.00	4.10	93.60	2,902.00	-142.46	-25.92	141.38	143.74	100.39	443,834.08	587,742.38
3,097.00	6.00	80.70	3,091.26	-158.97	-24.74	157.96	159.89	98.90	443,835.26	587,758.96
3,288.00	6.80	77.30	3,281.07	-179.63	-20.65	178.84	180.03	96.59	443,839.35	587,779.84
3,478.00	6.80	77.00	3,469.73	-201.30	-15.64	200.78	201.38	94.45	443,844.36	587,801.78
3,669.00	6.30	75.90	3,659.49	-222.21	-10.55	221.96	222.21	92.72	443,849.45	587,822.96



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 222H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
MD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
3,859.00	6.20	75.60	3,848.36	-241.99	-5.45	242.01	242.07	91.29	443,854.55	587,843.01	
4,050.00	6.20	75.50	4,038.24	-261.69	-0.31	261.98	261.98	90.07	443,859.69	587,862.98	
4,241.00	5.80	72.80	4,228.19	-280.62	5.13	281.19	281.23	88.95	443,865.13	587,882.19	
4,431.00	7.20	72.80	4,416.97	-300.83	11.49	301.73	301.95	87.82	443,871.49	587,902.73	
4,622.00	6.60	93.70	4,606.61	-323.06	14.32	324.12	324.44	87.47	443,874.32	587,925.12	
4,813.00	6.60	96.00	4,796.35	-345.00	12.47	345.99	346.22	87.94	443,872.47	587,946.99	
5,003.00	6.50	96.40	4,985.11	-366.63	10.13	367.54	367.68	88.42	443,870.13	587,968.54	
5,194.00	5.80	97.00	5,175.01	-387.05	7.74	387.86	387.94	88.86	443,867.74	587,988.86	
5,384.00	5.20	83.00	5,364.14	-405.11	7.62	405.94	406.01	88.92	443,867.62	588,006.94	
5,574.00	5.40	85.60	5,553.33	-422.46	9.36	423.40	423.50	88.73	443,869.36	588,024.40	
5,765.00	5.20	86.30	5,743.51	-439.98	10.61	441.00	441.12	88.62	443,870.61	588,042.00	
5,956.00	5.00	89.90	5,933.76	-456.89	11.18	457.96	458.09	88.60	443,871.18	588,058.96	
6,147.00	4.30	89.60	6,124.13	-472.36	11.24	473.44	473.58	88.64	443,871.24	588,074.44	
6,338.00	3.80	90.10	6,314.65	-485.83	11.28	486.93	487.06	88.67	443,871.28	588,087.93	
6,528.00	0.40	108.10	6,504.49	-492.76	11.07	493.86	493.98	88.72	443,871.07	588,094.86	
6,719.00	0.70	261.50	6,695.49	-492.26	10.69	493.34	493.46	88.76	443,870.69	588,094.34	
6,909.00	0.80	313.10	6,885.47	-490.11	11.42	491.22	491.36	88.67	443,871.42	588,092.22	
7,100.00	1.10	323.90	7,076.45	-487.94	13.81	489.17	489.36	88.38	443,873.81	588,090.17	
7,291.00	1.90	331.50	7,267.38	-485.15	18.08	486.58	486.91	87.87	443,878.08	588,087.58	
7,481.00	1.70	328.10	7,457.29	-481.91	23.24	483.59	484.14	87.25	443,883.24	588,084.59	
7,576.00	0.80	308.30	7,552.26	-480.57	24.85	482.32	482.96	87.05	443,884.85	588,083.32	
7,764.00	0.80	286.50	7,740.25	-478.23	26.03	480.03	480.74	86.90	443,886.03	588,081.03	
7,954.00	1.20	45.20	7,930.23	-478.29	27.81	480.17	480.98	86.69	443,887.81	588,081.17	
8,144.00	0.30	286.80	8,120.22	-479.15	29.36	481.11	482.00	86.51	443,889.36	588,082.11	
8,334.00	0.60	253.20	8,310.21	-477.73	29.21	479.68	480.57	86.51	443,889.21	588,080.68	
8,523.00	0.90	236.00	8,499.20	-475.60	28.10	477.50	478.33	86.63	443,888.10	588,078.50	
8,714.00	0.40	81.20	8,690.19	-475.06	27.36	476.92	477.70	86.72	443,887.36	588,077.92	



ProDirectional Survey Report



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Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 222H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Pat274))
MD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Pat274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
8,905.00	0.50	47.80	8,881.18	-476.30	28.02	478.19	479.01	86.65	443,888.02	588,079.19
9,095.00	0.50	20.80	9,071.18	-477.14	29.35	479.10	480.00	86.49	443,889.35	588,080.10
9,286.00	0.70	32.60	9,262.17	-477.98	31.12	480.03	481.03	86.29	443,891.12	588,081.03
9,477.00	0.50	80.70	9,453.16	-479.38	32.23	481.48	482.56	86.17	443,892.23	588,082.48
9,668.00	0.90	111.20	9,644.14	-481.61	31.83	483.70	484.74	86.24	443,891.83	588,084.70
9,859.00	1.00	58.20	9,835.12	-484.41	32.16	486.51	487.58	86.22	443,892.16	588,087.51
9,985.00	1.10	27.20	9,961.10	-485.82	33.82	488.00	489.17	86.04	443,893.82	588,089.00
10,058.00	0.40	2.00	10,034.09	-486.10	34.69	488.33	489.56	85.94	443,894.69	588,089.33
10,121.00	1.60	315.30	10,097.08	-485.45	35.54	487.72	489.01	85.83	443,895.54	588,088.72
10,153.00	4.90	285.00	10,129.03	-483.79	36.21	486.08	487.43	85.74	443,896.21	588,087.08
10,201.00	10.80	267.00	10,176.56	-477.30	36.51	479.61	480.99	85.65	443,896.51	588,080.61
10,249.00	10.60	302.60	10,223.78	-468.99	38.65	471.39	472.97	85.31	443,898.65	588,072.39
First Survey(ST01): 10249' MD										
10,297.00	12.50	306.10	10,270.81	-460.82	44.09	463.47	465.56	84.57	443,904.09	588,064.47
10,344.00	15.60	294.00	10,316.41	-450.68	49.66	453.58	456.29	83.75	443,909.66	588,054.58
10,392.00	21.70	291.70	10,361.86	-436.26	55.57	439.43	442.93	82.79	443,915.57	588,040.43
10,439.00	26.20	285.40	10,404.81	-417.90	61.54	421.34	425.81	81.69	443,921.54	588,022.34
10,487.00	30.30	284.40	10,447.09	-395.69	67.37	399.39	405.03	80.42	443,927.37	588,000.39
10,534.00	35.80	282.60	10,486.47	-370.52	73.32	374.47	381.58	78.92	443,933.32	587,975.47
10,582.00	42.50	282.30	10,523.67	-340.66	79.85	344.89	354.01	76.96	443,939.85	587,945.89
10,629.00	49.60	282.30	10,556.27	-307.31	87.05	311.85	323.77	74.40	443,947.05	587,912.85
10,677.00	51.50	280.30	10,586.77	-270.67	94.31	275.51	291.20	71.10	443,954.31	587,876.51
10,724.00	53.50	274.40	10,615.40	-233.53	99.05	238.55	258.30	67.45	443,959.05	587,839.55
10,785.00	60.40	274.30	10,648.64	-182.45	102.92	187.60	213.98	61.25	443,962.92	587,788.60
10,829.00	67.50	273.00	10,667.95	-142.95	105.42	148.18	181.85	54.57	443,965.42	587,749.18
10,929.00	79.60	272.70	10,696.22	-47.22	110.17	52.57	122.07	25.51	443,970.17	587,653.57



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 222H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference: Well No. 222H
MD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
North Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Survey Calculation Method: Grid
Database: Minimum Curvature
WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
10,958.00	80.12	272.85	10,701.32	-18.67	111.56	24.05	114.12	12.17	443,971.56	587,625.05	
HL Xing: 10958° MD											
11,023.00	81.30	273.20	10,711.81	45.47	114.94	-40.00	121.71	340.81	443,974.94	587,561.00	
11,070.00	82.20	273.40	10,718.56	91.98	117.62	-86.44	145.97	323.69	443,977.62	587,514.56	
11,117.00	82.60	273.20	10,724.77	138.57	120.30	-132.95	179.30	312.14	443,980.30	587,468.05	
11,211.00	89.50	273.30	10,731.25	232.28	125.62	-226.52	259.02	299.01	443,985.62	587,374.48	
11,306.00	92.00	274.80	10,730.00	327.24	132.33	-321.26	347.45	292.39	443,992.33	587,279.74	
11,400.00	91.60	273.70	10,727.05	421.16	139.29	-414.96	437.71	288.56	443,999.29	587,186.04	
11,495.00	91.10	273.20	10,724.81	516.13	145.00	-509.76	529.98	285.88	444,005.00	587,091.24	
11,589.00	92.90	273.60	10,721.53	610.06	150.57	-603.53	622.03	284.01	444,010.57	586,997.47	
11,683.00	93.20	274.10	10,716.53	703.91	156.88	-697.19	714.62	282.68	444,016.88	586,903.81	
11,777.00	90.20	272.30	10,713.74	797.85	162.12	-790.98	807.43	281.58	444,022.12	586,810.02	
11,872.00	91.50	276.00	10,712.33	892.79	168.99	-885.71	901.68	280.80	444,028.99	586,715.29	
11,966.00	90.00	277.20	10,711.10	986.57	179.80	-979.07	995.44	280.41	444,039.80	586,621.93	
12,060.00	91.20	277.30	10,710.12	1,080.27	191.66	-1,072.31	1,089.30	280.13	444,051.66	586,528.69	
12,154.00	91.20	274.30	10,708.15	1,174.11	201.15	-1,165.80	1,183.03	279.79	444,061.15	586,435.20	
12,248.00	89.70	272.10	10,707.41	1,268.09	206.40	-1,259.64	1,276.44	279.31	444,066.40	586,341.36	
12,342.00	88.80	269.80	10,708.64	1,362.03	207.96	-1,353.61	1,369.49	278.73	444,067.96	586,247.39	
12,436.00	92.80	270.60	10,707.33	1,455.91	208.29	-1,447.58	1,462.49	278.19	444,068.29	586,153.42	
12,531.00	93.30	269.90	10,702.27	1,550.68	208.70	-1,542.45	1,556.50	277.71	444,068.70	586,058.55	
12,625.00	95.00	270.40	10,695.47	1,644.34	208.94	-1,636.20	1,649.48	277.28	444,068.94	585,964.80	
12,720.00	88.90	268.50	10,692.24	1,739.08	208.03	-1,731.09	1,743.54	276.85	444,068.03	585,869.91	
12,814.00	90.30	268.60	10,692.90	1,832.82	205.65	-1,825.05	1,836.60	276.43	444,065.65	585,775.95	
12,908.00	94.20	269.70	10,689.21	1,926.54	204.26	-1,918.95	1,929.79	276.08	444,064.26	585,682.05	
13,003.00	94.60	270.10	10,681.92	2,021.14	204.09	-2,013.67	2,023.99	275.79	444,064.09	585,587.33	
13,097.00	92.60	269.10	10,676.02	2,114.81	203.44	-2,107.48	2,117.27	275.51	444,063.44	585,493.52	
13,191.00	87.00	265.90	10,676.34	2,208.37	199.34	-2,201.34	2,210.34	275.17	444,059.34	585,399.66	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 222H
Wellbore: ST01
Design: ST01

Local Co-ordinate Reference:
TVD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
MD Reference: Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
13,286.00	86.50	265.50	10,681.73	2,302.50	192.23	-2,295.92	2,303.95	274.79	444,052.23	585,305.08	
13,381.00	89.00	267.60	10,685.46	2,396.85	186.52	-2,390.66	2,397.92	274.46	444,046.52	585,210.34	
13,475.00	87.00	267.00	10,688.74	2,490.37	182.09	-2,484.49	2,491.16	274.19	444,042.09	585,116.51	
13,570.00	88.80	268.40	10,692.22	2,584.93	178.28	-2,579.35	2,585.50	273.95	444,038.28	585,021.65	
13,664.00	90.40	270.90	10,692.88	2,678.78	177.71	-2,673.33	2,679.23	273.80	444,037.71	584,927.67	
13,758.00	90.70	273.40	10,691.97	2,772.76	181.24	-2,767.25	2,773.18	273.75	444,041.24	584,833.75	
13,852.00	91.00	273.90	10,690.58	2,866.74	187.22	-2,861.05	2,867.17	273.74	444,047.22	584,739.95	
13,946.00	92.80	274.70	10,687.46	2,960.65	194.26	-2,954.73	2,961.11	273.76	444,054.26	584,646.27	
14,040.00	90.80	271.80	10,684.51	3,054.58	199.59	-3,048.52	3,055.05	273.75	444,059.59	584,552.48	
14,135.00	90.70	267.20	10,683.27	3,149.40	198.76	-3,143.48	3,149.76	273.62	444,058.76	584,457.52	
14,229.00	94.60	270.20	10,678.92	3,243.03	196.62	-3,237.33	3,243.29	273.48	444,056.62	584,363.67	
14,323.00	94.70	270.40	10,671.30	3,336.64	197.12	-3,331.02	3,336.84	273.39	444,057.12	584,269.98	
14,418.00	88.60	270.50	10,668.57	3,431.48	197.86	-3,425.93	3,431.64	273.31	444,057.86	584,175.07	
14,512.00	87.70	270.40	10,671.60	3,525.35	198.60	-3,519.88	3,525.48	273.23	444,058.60	584,081.12	
14,607.00	89.50	271.30	10,673.92	3,620.27	200.01	-3,614.83	3,620.36	273.17	444,060.01	583,986.17	
14,700.00	97.30	272.80	10,668.41	3,713.02	203.32	-3,707.54	3,713.11	273.14	444,063.32	583,893.46	
14,795.00	96.20	274.70	10,657.24	3,807.34	209.49	-3,801.67	3,807.44	273.15	444,069.49	583,799.33	
14,889.00	93.00	274.10	10,649.70	3,900.99	216.68	-3,895.08	3,901.10	273.18	444,076.68	583,705.92	
14,984.00	90.20	272.30	10,647.05	3,995.93	221.98	-3,989.88	3,996.05	273.18	444,081.98	583,611.12	
15,078.00	90.60	274.90	10,646.40	4,089.91	227.88	-4,083.68	4,090.04	273.19	444,087.88	583,517.32	
15,173.00	92.20	275.90	10,644.07	4,184.78	236.82	-4,178.23	4,184.94	273.24	444,096.82	583,422.77	
15,267.00	87.30	276.30	10,644.48	4,278.59	246.80	-4,271.67	4,278.79	273.31	444,106.80	583,329.33	
15,352.00	88.40	273.30	10,647.67	4,363.46	253.91	-4,356.30	4,363.69	273.34	444,113.91	583,244.70	
15,455.00	91.80	269.50	10,647.49	4,466.40	256.42	-4,459.23	4,466.60	273.29	444,116.42	583,141.77	
15,550.00	91.60	268.80	10,644.68	4,561.17	255.02	-4,554.18	4,561.32	273.20	444,115.02	583,046.82	
15,644.00	93.80	270.10	10,640.25	4,654.90	254.11	-4,648.06	4,655.01	273.13	444,114.11	582,952.94	
15,739.00	90.90	270.20	10,636.35	4,749.72	254.36	-4,742.97	4,749.79	273.07	444,114.36	582,858.03	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM	TVD Reference:	Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 2993.00usft (GL: 2964' + KB: 29' (Patt274))
Well:	No. 222H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
15,755.00	90.57	269.87	10,636.15	4,765.70	254.37	-4,758.97	4,765.77	273.06	444,114.37	582,842.03	
HL Xing: 15755' MD, 10636' TVD											
15,778.00	90.10	269.40	10,636.01	4,788.66	254.23	-4,781.97	4,788.73	273.04	444,114.23	582,819.03	
Last Survey(ST): 15778' MD, 10636.01' TVD											
15,844.00	90.10	269.40	10,635.90	4,854.55	253.53	-4,847.97	4,854.59	272.99	444,113.53	582,753.03	
PTB: 15844' MD, 10635.9' TVD											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,249.00	10,223.78	38.65	471.39	First Survey(ST01): 10249' MD	
10,958.00	10,701.32	111.56	24.05	HL Xing: 10958' MD	
15,755.00	10,636.15	254.37	-4,758.97	HL Xing: 15755' MD, 10636' TVD	
15,778.00	10,636.01	254.23	-4,781.97	Last Survey(ST): 15778' MD, 10636.01' TVD	
15,844.00	10,635.90	253.53	-4,847.97	PTB: 15844' MD, 10635.9' TVD	