



NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 02 2017
RECEIVED



Tiger 14-24S-28E RB No. 202H

Eddy County, NM

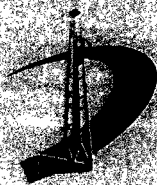
30-015-44129

June 09, 2017

Job No. LNM5137017

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

June 09, 2017



Operator Name: Matador Resources
Well Name: Tiger 14-24S-28E RB No. 202H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5137017

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	9,298' MD – 14,614' MD	14,680' MD	05/07/17 – 05/15/17	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. 202H
OH

Survey: ProDirectional

Survey Report

09 June, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 02 2017
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ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: Gyro-MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
MD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

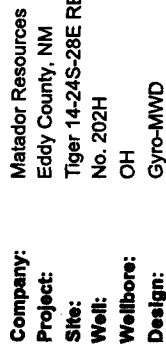
Project	Eddy County, NM	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Tiger 14-24S-28E RB		
Site Position:		Northings:	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. 202H		
Well Position	+N/-S +E/-W	443,830.00 usft 587,601.00 usft	Latitude: Longitude:
Position Uncertainty	0.00 usft 0.00 usft 0.00 usft	usft	Ground Level: 2,964.00 usft

Wellbore	OH		
Magnetics	Model Name HDGM	Sample Date 3/28/2017	Declination (°) 7.28
			Dip Angle (°) 60.07
			Field Strength (nT) 48,139.90

Design	Gyro-MWD		
Audit Notes:			
Version:	1.0	Phase: ACTUAL	Tie On Depth: 0.00
Vertical Section:		Depth From (TVD) (usft) 0.00	+N/-S (usft) 0.00
		+E/-W (usft) 0.00	Direction (°) 271.02



Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well No. 202H
Rig @ 2992.50ust (GL:2964'+KB:28.5')
Rig @ 2992.50ust (GL:2964'+KB:28.5')
Grid
Minimum Curvature
WellPlanner1

Survey Program		Date	5/15/2017							
From (usft)	To (usft)	Survey (Wellbore)								
100.00	9,200.00	Gyro (OH)								
9,202.00	14,680.00	Survey #1 (OH)								
		Tool Name								
		GYD_DP_MS								
		MWD - OWSG								
		Description								
		Gyrodata gyro-compassing and drop								
		MWD - OWSG								
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	443,830.00	587,601.00
100.00	0.55	319.68	100.00	0.32	0.37	-0.31	0.48	319.68	443,830.37	587,600.89
200.00	0.81	332.86	199.99	0.97	1.36	-0.94	1.66	325.27	443,831.36	587,600.06
300.00	0.65	355.70	299.98	1.35	2.56	-1.31	2.87	332.89	443,832.56	587,599.69
400.00	0.59	352.46	399.98	1.48	3.63	-1.42	3.90	338.66	443,833.63	587,599.58
500.00	0.63	345.38	499.97	1.71	4.67	-1.62	4.95	340.83	443,834.67	587,599.38
600.00	0.42	326.08	599.97	2.07	5.51	-1.97	5.85	340.34	443,835.51	587,599.03
700.00	0.43	6.27	699.97	2.24	6.19	-2.13	6.54	340.99	443,836.19	587,598.87
800.00	0.34	357.12	799.96	2.23	6.86	-2.11	7.17	342.93	443,836.86	587,598.89
900.00	0.20	12.85	899.96	2.21	7.32	-2.08	7.61	344.13	443,837.32	587,598.92
1,000.00	0.85	353.37	999.96	2.27	8.23	-2.13	8.50	345.50	443,838.23	587,598.87
1,100.00	1.04	334.85	1,099.94	2.77	9.79	-2.60	10.13	345.12	443,839.79	587,598.40
1,200.00	1.06	333.91	1,199.93	3.60	11.44	-3.39	11.93	343.48	443,841.44	587,597.61
1,300.00	1.14	298.08	1,299.91	4.90	12.74	-4.68	13.57	339.84	443,842.74	587,596.32
1,400.00	1.16	309.51	1,399.89	6.58	13.85	-6.34	15.23	335.42	443,843.85	587,594.66
1,500.00	1.34	339.81	1,499.87	7.80	15.59	-7.52	17.31	334.25	443,845.59	587,593.48
1,600.00	1.32	5.97	1,599.84	8.12	17.84	-7.80	19.47	336.37	443,847.84	587,593.20
1,700.00	1.48	66.59	1,699.82	6.84	19.49	-6.50	20.55	341.56	443,849.49	587,594.50
1,800.00	2.23	69.95	1,799.76	3.85	20.67	-3.49	20.97	350.43	443,850.67	587,597.51
1,900.00	3.12	79.28	1,899.65	-0.63	21.85	1.02	21.87	2.66	443,851.85	587,602.02
2,000.00	5.25	87.61	1,999.38	-7.86	22.55	8.26	24.01	20.12	443,852.55	587,609.26



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: GYRO-MWD

Local Co-ordinate Reference:
TVD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
MD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 202H

Rig @ 2992.50usft (GL:2964'+KB:28.5')

Rig @ 2992.50usft (GL:2964'+KB:28.5')

Grid

Minimum Curvature

WellPlanner1

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
2,100.00	5.20	95.36	2,098.97	-16.94	22.31	17.34	28.26	37.86	443,852.31	587,618.34
2,200.00	5.08	100.93	2,198.57	-25.82	21.05	26.20	33.61	51.22	443,851.05	587,627.20
2,300.00	5.20	101.08	2,298.16	-34.65	19.34	35.00	39.99	61.08	443,849.34	587,636.00
2,400.00	6.09	100.95	2,397.68	-44.33	17.46	44.65	47.95	68.64	443,847.46	587,645.65
2,500.00	4.79	84.27	2,497.23	-53.71	16.87	54.02	56.59	72.66	443,846.87	587,655.02
2,600.00	3.79	65.10	2,596.96	-60.83	18.68	61.17	63.96	73.02	443,848.68	587,662.17
2,700.00	4.05	54.12	2,696.72	-66.62	22.14	67.03	70.59	71.72	443,852.14	587,668.03
2,800.00	4.30	53.20	2,796.46	-72.41	26.46	72.89	77.54	70.05	443,856.46	587,673.89
2,900.00	4.22	52.36	2,896.18	-78.24	30.95	78.81	84.67	68.56	443,860.95	587,679.81
3,000.00	4.14	52.99	2,995.92	-83.96	35.37	84.60	91.70	67.31	443,865.37	587,685.60
3,100.00	4.28	53.61	3,095.65	-89.77	39.75	90.49	98.84	66.28	443,869.75	587,691.49
3,200.00	4.60	55.46	3,195.35	-95.99	44.24	96.80	106.43	65.44	443,874.24	587,697.80
3,300.00	5.67	56.36	3,294.94	-103.32	49.25	104.21	115.26	64.70	443,879.25	587,705.21
3,400.00	6.72	56.25	3,394.36	-112.19	55.24	113.19	125.95	63.99	443,885.24	587,714.19
3,500.00	6.51	56.12	3,493.69	-121.64	61.65	122.76	137.37	63.33	443,891.65	587,723.76
3,600.00	6.16	55.09	3,593.08	-130.64	67.88	131.87	148.31	62.76	443,897.88	587,732.87
3,700.00	7.12	60.41	3,692.41	-140.32	74.01	141.66	159.83	62.41	443,904.01	587,742.66
3,800.00	7.73	67.66	3,791.57	-151.82	79.63	153.27	172.72	62.55	443,909.63	587,754.27
3,900.00	8.65	71.79	3,890.55	-165.10	84.53	166.63	186.85	63.10	443,914.53	587,767.63
4,000.00	8.73	74.76	3,989.41	-179.48	88.88	181.10	201.73	63.86	443,918.88	587,782.10
4,100.00	8.30	73.92	4,088.30	-193.67	92.87	195.35	216.31	64.57	443,922.87	587,796.35
4,200.00	7.67	71.74	4,187.33	-206.87	96.96	208.63	230.06	65.07	443,926.96	587,809.63
4,300.00	7.53	72.08	4,286.45	-219.36	101.07	221.20	243.19	65.44	443,931.07	587,822.20
4,400.00	7.13	69.10	4,385.64	-231.32	105.30	233.23	255.90	65.70	443,935.30	587,834.23
4,500.00	7.25	70.57	4,484.85	-242.99	109.61	244.98	268.38	65.89	443,939.61	587,845.98
4,600.00	7.48	73.63	4,584.03	-255.11	113.55	257.17	281.13	66.18	443,943.55	587,858.17
4,700.00	8.74	72.05	4,683.02	-268.51	117.72	270.65	295.14	66.49	443,947.72	587,871.65



ProDirectional Survey Report



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Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: Gyro-MWD

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Database: WellPlanner1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
	4,800.00	8.57	73.79	4,781.89	-282.81	122.15	285.03	310.10	66.80	443,952.15	587,886.03
	4,900.00	8.47	71.85	4,880.78	-296.88	126.52	299.18	324.83	67.08	443,956.52	587,900.18
	5,000.00	7.53	70.52	4,979.81	-309.98	131.00	312.36	338.72	67.25	443,961.00	587,913.36
	5,100.00	7.13	70.27	5,078.99	-321.92	135.28	324.38	351.46	67.36	443,965.28	587,925.38
	5,200.00	7.38	70.58	5,178.19	-333.74	139.51	336.28	364.07	67.47	443,969.51	587,937.28
	5,300.00	8.33	71.74	5,277.25	-346.60	143.91	349.21	377.70	67.60	443,973.91	587,950.21
	5,400.00	7.63	71.04	5,376.28	-359.67	148.34	362.37	391.56	67.74	443,978.34	587,963.37
	5,500.00	7.80	72.58	5,475.38	-372.35	152.53	375.12	404.95	67.87	443,982.53	587,976.12
	5,600.00	8.22	72.54	5,574.40	-385.57	156.71	388.42	418.84	68.03	443,986.71	587,989.42
	5,700.00	8.09	73.45	5,673.39	-399.05	160.86	401.98	432.97	68.19	443,990.86	588,002.98
	5,800.00	8.27	73.33	5,772.37	-412.61	164.92	415.62	447.14	68.36	443,994.92	588,016.62
	5,900.00	7.26	73.16	5,871.45	-425.48	168.82	428.55	460.61	68.50	443,998.82	588,029.55
	6,000.00	6.65	74.20	5,970.72	-437.04	172.22	440.17	472.67	68.63	444,002.22	588,041.17
	6,100.00	5.78	72.87	6,070.13	-447.37	175.28	450.56	483.45	68.74	444,005.28	588,051.56
	6,200.00	4.12	78.63	6,169.75	-455.66	177.47	458.89	492.01	68.86	444,007.47	588,059.89
	6,300.00	3.35	80.57	6,269.54	-462.04	178.66	465.30	498.42	68.99	444,008.66	588,066.30
	6,400.00	2.07	80.58	6,369.43	-466.69	179.44	469.96	503.05	69.10	444,009.44	588,070.96
	6,500.00	1.87	57.24	6,469.37	-469.82	180.61	473.11	506.42	69.11	444,010.61	588,074.11
	6,600.00	1.83	22.21	6,569.32	-471.76	182.98	475.09	509.11	68.94	444,012.98	588,076.09
	6,700.00	1.99	10.59	6,669.26	-472.62	186.16	476.01	511.12	68.64	444,016.16	588,077.01
	6,800.00	2.03	17.72	6,769.20	-473.42	189.55	476.87	513.16	68.32	444,019.55	588,077.87
	6,900.00	1.17	307.68	6,869.17	-473.11	191.87	476.60	513.77	68.07	444,021.87	588,077.60
	7,000.00	1.00	298.86	6,969.15	-471.52	192.91	475.03	512.71	67.90	444,022.91	588,076.03
	7,100.00	0.97	346.30	7,069.14	-470.53	194.15	474.06	512.28	67.73	444,024.15	588,075.06
	7,200.00	0.91	33.63	7,169.13	-470.75	195.64	474.30	513.07	67.59	444,025.64	588,075.30
	7,300.00	1.22	42.68	7,269.11	-471.88	197.08	475.46	514.69	67.49	444,027.08	588,076.46
	7,400.00	1.51	55.69	7,369.08	-473.66	198.61	477.27	516.95	67.41	444,028.61	588,078.27



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: GYRO-MWD

Local Co-ordinate Reference:
TVD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 202H

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)
7,500.00	1.53	119.79	7,469.05	-475.91	198.69	479.52	519.05	67.49	444,028.69	588,080.52
7,600.00	0.86	124.45	7,569.03	-477.71	197.60	481.30	520.28	67.68	444,027.60	588,082.30
7,700.00	0.44	219.01	7,669.03	-478.10	196.88	481.68	520.36	67.77	444,026.88	588,082.68
7,800.00	0.48	217.46	7,769.02	-477.61	196.25	481.18	519.66	67.81	444,026.25	588,082.18
7,900.00	0.44	226.08	7,869.02	-477.09	195.65	480.65	518.94	67.85	444,025.65	588,081.65
8,000.00	1.42	242.69	7,969.01	-475.73	194.81	479.27	517.35	67.88	444,024.81	588,080.27
8,100.00	1.95	231.43	8,068.96	-473.33	193.18	476.84	514.49	67.95	444,023.18	588,077.84
8,200.00	2.17	221.95	8,168.90	-470.77	190.71	474.24	511.15	68.09	444,020.71	588,075.24
8,300.00	2.02	218.93	8,268.83	-468.45	187.93	471.87	507.92	68.28	444,017.93	588,072.87
8,400.00	1.66	214.14	8,368.78	-466.58	185.36	469.95	505.19	68.47	444,015.36	588,070.95
8,500.00	1.55	216.72	8,468.74	-465.00	183.08	468.33	502.84	68.65	444,013.08	588,069.33
8,600.00	1.54	221.66	8,568.70	-463.33	180.99	466.63	500.50	68.80	444,010.99	588,067.63
8,700.00	1.67	238.52	8,668.67	-461.23	179.23	464.49	497.87	68.90	444,009.23	588,065.49
8,800.00	1.53	235.50	8,768.63	-458.91	177.71	462.15	495.14	68.97	444,007.71	588,063.15
8,900.00	1.45	228.58	8,868.59	-456.89	176.12	460.10	492.66	69.05	444,006.12	588,061.10
9,000.00	1.49	215.16	8,968.56	-455.23	174.22	458.40	490.39	69.19	444,004.22	588,059.40
9,100.00	9.34	264.60	9,068.06	-446.42	172.39	449.56	481.48	69.02	444,002.39	588,050.56
9,200.00	16.34	267.62	9,165.50	-424.29	171.04	427.40	460.35	68.19	444,001.04	588,028.40
9,298.00	25.60	274.50	9,256.92	-389.31	172.13	392.44	428.53	66.32	444,002.13	587,993.44
Pro MWD First Survey: 9298' MD										
9,393.00	37.00	271.70	9,337.97	-340.07	174.60	343.24	385.09	63.04	444,004.60	587,944.24
9,489.00	49.70	270.40	9,407.64	-274.31	175.71	277.48	328.44	57.66	444,005.71	587,878.48
9,584.00	53.00	269.50	9,466.96	-200.14	175.64	203.30	268.66	49.18	444,005.64	587,804.30
9,680.00	55.40	267.70	9,523.12	-122.36	173.72	125.48	214.29	35.84	444,003.72	587,726.48
9,775.00	70.10	267.00	9,566.50	-38.31	169.79	41.34	174.75	13.69	443,999.79	587,642.34
9,793.00	72.77	267.49	9,572.23	-21.29	168.97	24.30	170.71	8.18	443,998.97	587,625.30
HL Xing: 9793' MD										



ProDirectional Survey Report



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Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: Gyro-MWD

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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)
9,843.00	80.20	268.80	9,583.90	27.23	167.41	-24.25	169.15	351.76	443,997.41	587,576.75
9,984.00	82.10	267.80	9,605.59	166.39	163.27	-163.51	231.07	314.96	443,993.27	587,437.49
10,079.00	81.40	267.10	9,619.23	260.22	159.09	-257.43	302.62	301.72	443,989.09	587,343.57
10,173.00	82.50	267.30	9,632.39	353.09	154.54	-350.39	382.96	293.80	443,984.54	587,250.61
10,268.00	89.50	269.40	9,639.01	447.69	151.82	-445.06	470.24	288.84	443,981.82	587,155.94
10,362.00	91.40	272.70	9,638.27	541.67	153.54	-539.02	560.46	285.90	443,983.54	587,061.98
10,456.00	89.10	271.50	9,637.86	635.64	156.99	-632.95	652.13	283.93	443,986.99	586,968.05
10,551.00	88.30	270.50	9,640.02	730.62	158.65	-727.91	744.99	282.30	443,988.65	586,873.09
10,645.00	87.70	270.50	9,643.30	824.55	159.47	-821.85	837.17	280.98	443,989.47	586,779.15
10,740.00	88.90	271.50	9,646.12	919.51	161.12	-916.79	930.84	279.97	443,991.12	586,684.21
10,834.00	89.90	272.60	9,647.10	1,013.49	164.48	-1,010.72	1,024.01	279.24	443,994.48	586,590.28
10,929.00	89.70	272.10	9,647.43	1,108.46	168.38	-1,105.64	1,118.39	278.66	443,998.38	586,495.36
11,023.00	89.40	271.90	9,648.17	1,202.44	171.66	-1,199.58	1,211.80	278.14	444,001.66	586,401.42
11,117.00	92.00	272.60	9,647.02	1,296.41	175.35	-1,293.49	1,305.32	277.72	444,005.35	586,307.51
11,211.00	91.90	271.90	9,643.83	1,390.33	179.04	-1,387.36	1,398.87	277.35	444,009.04	586,213.64
11,306.00	90.50	271.40	9,641.84	1,485.30	181.77	-1,482.30	1,493.40	276.99	444,011.77	586,118.70
11,400.00	95.20	273.50	9,637.16	1,579.12	185.78	-1,576.06	1,586.98	276.72	444,015.78	586,024.94
11,494.00	94.40	274.20	9,629.30	1,672.68	192.07	-1,669.52	1,680.53	276.56	444,022.07	585,931.48
11,589.00	94.90	274.20	9,621.60	1,767.22	199.01	-1,763.96	1,775.15	276.44	444,029.01	585,837.04
11,683.00	92.00	273.90	9,615.94	1,860.91	205.63	-1,857.54	1,868.89	276.32	444,035.63	585,743.46
11,777.00	92.40	273.50	9,612.33	1,954.73	211.69	-1,951.27	1,962.72	276.19	444,041.69	585,649.73
11,872.00	91.60	271.90	9,609.02	2,049.63	216.17	-2,046.11	2,057.49	276.03	444,046.17	585,554.89
11,965.00	90.40	270.40	9,607.39	2,142.61	218.03	-2,139.07	2,150.15	275.82	444,048.03	585,461.93
12,059.00	93.00	271.10	9,604.60	2,236.56	219.26	-2,233.01	2,243.75	275.61	444,049.26	585,367.99
12,154.00	90.40	272.40	9,601.79	2,331.50	222.16	-2,327.92	2,338.49	275.45	444,052.16	585,273.08
12,248.00	88.80	272.70	9,602.44	2,425.46	226.34	-2,421.82	2,432.37	275.34	444,056.34	585,179.18
12,342.00	89.10	271.90	9,604.16	2,519.42	230.11	-2,515.73	2,526.23	275.23	444,060.11	585,085.27



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tiger 14-24S-28E RB
Well: No. 202H
Wellbore: OH
Design: Gyro-MWD

Local Co-ordinate Reference:
TVD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
MD Reference: Rig @ 2992.50usft (GL:2964'+KB:28.5')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 202H

Rig @ 2992.50usft (GL:2964'+KB:28.5')

Rig @ 2992.50usft (GL:2964'+KB:28.5')

Grid

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)
	12,436.00	89.00	271.60	9,605.72	2,613.40	232.98	-2,609.67	2,620.05	275.10	444,062.98	584,991.33
	12,531.00	91.30	271.20	9,605.47	2,708.39	235.31	-2,704.63	2,714.85	274.97	444,065.31	584,896.37
	12,625.00	92.00	271.90	9,602.77	2,802.35	237.85	-2,798.56	2,808.65	274.86	444,067.85	584,802.44
	12,720.00	91.80	271.80	9,599.62	2,897.29	240.91	-2,893.46	2,903.47	274.76	444,070.91	584,707.54
	12,814.00	91.40	271.80	9,596.99	2,991.24	243.86	-2,987.37	2,997.31	274.67	444,073.86	584,613.63
	12,908.00	91.00	271.30	9,595.02	3,085.22	246.41	-3,081.32	3,091.15	274.57	444,076.41	584,519.68
	13,003.00	90.60	271.60	9,593.70	3,180.20	248.81	-3,176.28	3,186.01	274.48	444,078.81	584,424.72
	13,097.00	90.60	271.20	9,592.71	3,274.20	251.11	-3,270.24	3,279.87	274.39	444,081.11	584,330.76
	13,192.00	91.30	272.70	9,591.14	3,369.17	254.34	-3,365.17	3,374.77	274.32	444,084.34	584,235.83
	13,286.00	90.80	273.40	9,589.42	3,463.09	259.34	-3,459.02	3,468.73	274.29	444,089.34	584,141.98
	13,381.00	89.70	273.50	9,589.00	3,558.00	265.06	-3,553.85	3,563.72	274.27	444,095.06	584,047.15
	13,475.00	89.70	273.40	9,589.49	3,651.92	270.71	-3,647.68	3,657.71	274.24	444,100.71	583,953.32
	13,570.00	89.40	272.70	9,590.24	3,746.86	275.77	-3,742.54	3,752.69	274.21	444,105.77	583,858.46
	13,664.00	89.70	270.00	9,590.98	3,840.84	277.98	-3,836.50	3,846.56	274.14	444,107.98	583,764.50
	13,758.00	91.80	270.50	9,589.75	3,934.82	278.39	-3,930.49	3,940.33	274.05	444,108.39	583,670.51
	13,852.00	90.30	270.50	9,588.03	4,028.80	279.21	-4,024.46	4,034.14	273.97	444,109.21	583,576.54
	13,947.00	92.40	269.20	9,585.79	4,123.74	278.96	-4,119.43	4,128.87	273.87	444,108.96	583,481.57
	14,041.00	91.50	268.40	9,582.59	4,217.62	276.99	-4,213.35	4,222.45	273.76	444,106.99	583,387.65
	14,135.00	93.10	267.50	9,578.82	4,311.40	273.64	-4,307.21	4,315.90	273.64	444,103.64	583,293.79
	14,229.00	90.20	265.00	9,576.11	4,405.02	267.49	-4,400.96	4,409.08	273.48	444,097.49	583,200.04
	14,323.00	89.80	263.90	9,576.11	4,498.40	258.40	-4,494.51	4,501.94	273.29	444,088.40	583,106.49
	14,418.00	91.20	263.90	9,575.28	4,592.66	248.30	-4,588.97	4,595.68	273.10	444,078.30	583,012.03
	14,512.00	92.10	264.30	9,572.57	4,685.94	238.65	-4,682.43	4,688.51	272.92	444,068.65	582,918.57
	14,589.00	91.72	263.85	9,570.01	4,762.33	230.70	-4,758.98	4,764.57	272.78	444,060.70	582,842.02
HL Xing: 14589' MD	14,614.00	91.60	263.70	9,569.28	4,787.12	227.99	-4,783.82	4,789.25	272.73	444,057.99	582,817.18
Last Survey: 14614' MD, 9569.28' TVD											



ProDirectional Survey Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 202H
Rig @ 2992.50usft (GL:2964'+KB:28.5')
Rig @ 2992.50usft (GL:2964'+KB:28.5')
Grid
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)
14,680.00	91.60	263.70	9,567.44	4,852.56	220.75	-4,849.40	4,854.42	272.61	444,050.75	582,751.60
PTB: 14680' MD, 9567.44' TVD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,298.00	9,256.92	172.13	392.44	Pro MWD First Survey: 9298' MD
9,793.00	9,572.23	168.97	24.30	HL Xing: 9793' MD
14,589.00	9,570.01	230.70	-4,758.98	HL Xing: 14589' MD
14,614.00	9,569.28	227.99	-4,783.82	Last Survey: 14614' MD, 9569.28' TVD
14,680.00	9,567.44	220.75	-4,849.40	PTB: 14680' MD, 9567.44' TVD