



RECEIVED

OCT 26 2018

DISTRICT II-ARTESIA O.C.D.



Norris Thornton Com RB No. 204H

Eddy County, NM

30-015-44659

August 20, 2018

Job No. LNM5177918

ORIGINAL

Survey Completion Report



August 20, 2018



Operator Name: Matador Resources
Well Name: Norris Thornton Com RB No. 204H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5177918

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	184' MD – 14,421' MD	14,497' MD	07/04/18 – 07/21/18	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



Matador Resources

**Eddy County, NM
Norris Thornton Com RB
No. 204H
OH**

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OCT 26 2018

DISTRICT II-ARTESIA O.C.D.

Survey: ProDirectional

Survey Report

20 August, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Norris Thornton Com RB
Well: No. 204H
Wellbore: OH
Design: MWD-184'-14421', Proj. 14497'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Eddy County, NM(NAD 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Norris Thornton Com RB

Site Position:		Northing:	467,072.00 usft	Latitude:	32.283927
From:	Map	Easting:	596,847.00 usft	Longitude:	-104.153708
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 "

Well No. 204H

Well Position	+N/-S	0.00 usft	Northing:	467,072.00 usft	Latitude:	32.283927
	+E/-W	0.00 usft	Easting:	596,847.00 usft	Longitude:	-104.153708
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,135.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/18/2018	7.30	60.03	47,983.80

Design MWD-184'-14421', Proj. 14497'

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	269.88	

Survey Program Date 8/20/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
184.00	14,497.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	467,072.00	596,847.00
184.00	0.70	30.80	184.00	-0.58	0.97	0.58	1.12	30.80	467,072.97	596,847.58
Pro MWD First Survey: 184' MD										
247.00	0.90	60.10	246.99	-1.20	1.54	1.20	1.96	37.91	467,073.54	596,848.20
338.00	2.60	71.50	337.94	-3.78	2.55	3.78	4.56	55.95	467,074.55	596,850.78
428.00	3.70	67.10	427.81	-8.40	4.33	8.39	9.44	62.69	467,076.33	596,855.39
459.00	3.70	67.10	458.74	-10.24	5.11	10.23	11.44	63.46	467,077.11	596,857.23
613.00	4.00	67.50	612.39	-19.79	9.10	19.77	21.77	65.29	467,081.10	596,866.77
704.00	3.90	68.50	703.18	-25.61	11.45	25.58	28.03	65.89	467,083.45	596,872.58
795.00	4.20	84.30	793.95	-31.81	12.91	31.78	34.30	67.89	467,084.91	596,878.78
887.00	4.20	93.40	885.71	-38.52	13.05	38.49	40.65	71.28	467,085.05	596,885.49
981.00	4.00	93.90	979.47	-45.23	12.62	45.20	46.93	74.40	467,084.62	596,892.20
1,075.00	3.50	97.40	1,073.27	-51.34	12.03	51.32	52.71	76.81	467,084.03	596,898.32
1,171.00	4.30	90.10	1,169.04	-57.85	11.64	57.82	58.98	78.61	467,083.64	596,904.82
1,266.00	6.70	83.00	1,263.60	-66.91	12.31	66.89	68.01	79.57	467,084.31	596,913.89
1,361.00	9.10	83.40	1,357.69	-79.88	13.85	79.85	81.04	80.16	467,085.85	596,926.85
1,457.00	9.50	85.90	1,452.43	-95.33	15.29	95.30	96.51	80.88	467,087.29	596,942.30
1,552.00	9.60	86.90	1,546.11	-111.06	16.28	111.03	112.21	81.66	467,088.28	596,958.03
1,647.00	9.60	89.80	1,639.78	-126.89	16.74	126.86	127.96	82.48	467,088.74	596,973.86
1,743.00	8.90	90.70	1,734.53	-142.32	16.67	142.29	143.26	83.32	467,088.67	596,989.29
1,838.00	8.20	93.80	1,828.48	-156.43	16.14	156.40	157.23	84.11	467,088.14	597,003.40
1,933.00	8.50	97.30	1,922.47	-170.15	14.79	170.12	170.76	85.03	467,086.79	597,017.12
2,028.00	8.60	96.20	2,016.42	-184.17	13.14	184.15	184.61	85.92	467,085.14	597,031.15
2,124.00	8.60	97.00	2,111.34	-198.43	11.49	198.41	198.74	86.69	467,083.49	597,045.41
2,219.00	7.30	97.20	2,205.42	-211.46	9.86	211.44	211.67	87.33	467,081.86	597,058.44
2,314.00	6.40	97.30	2,299.74	-222.70	8.43	222.68	222.84	87.83	467,080.43	597,069.68
2,409.00	5.30	96.30	2,394.25	-232.31	7.28	232.30	232.41	88.21	467,079.28	597,079.30



ProDirectional Survey Report



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Site: Norris Thornton Com RB
Well: No. 204H
Wellbore: OH
Design: MWD-184'-14421', Proj. 14497'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
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)
2,438.00	5.30	95.80	2,423.12	-234.97	7.00	234.96	235.06	88.29	467,079.00	597,081.96
2,586.00	5.30	102.20	2,570.49	-248.45	4.86	248.44	248.49	88.88	467,076.86	597,095.44
2,681.00	7.60	91.30	2,664.89	-259.02	3.79	259.01	259.04	89.16	467,075.79	597,106.01
2,776.00	8.40	88.70	2,758.96	-272.24	3.81	272.23	272.26	89.20	467,075.81	597,119.23
2,872.00	7.80	79.30	2,854.01	-285.65	5.18	285.64	285.69	88.96	467,077.18	597,132.64
2,967.00	7.80	76.80	2,948.13	-298.27	7.84	298.25	298.36	88.49	467,079.84	597,145.25
3,062.00	7.90	75.50	3,042.24	-310.87	10.95	310.85	311.04	87.98	467,082.95	597,157.85
3,158.00	7.30	73.90	3,137.40	-323.13	14.29	323.10	323.41	87.47	467,086.29	597,170.10
3,253.00	7.40	70.20	3,231.62	-334.69	18.04	334.65	335.14	86.91	467,090.04	597,181.65
3,348.00	8.40	77.20	3,325.72	-347.22	21.65	347.18	347.85	86.43	467,093.65	597,194.18
3,444.00	8.80	75.90	3,420.64	-361.19	24.99	361.14	362.00	86.04	467,096.99	597,208.14
3,539.00	8.60	77.00	3,514.54	-375.16	28.36	375.10	376.18	85.68	467,100.36	597,222.10
3,634.00	8.10	72.90	3,608.54	-388.49	31.93	388.42	389.73	85.30	467,103.93	597,235.42
3,729.00	7.60	71.40	3,702.65	-400.85	35.90	400.77	402.38	84.88	467,107.90	597,247.77
3,825.00	8.80	77.90	3,797.66	-414.05	39.46	413.97	415.85	84.55	467,111.46	597,260.97
3,919.00	8.80	77.90	3,890.56	-428.12	42.48	428.03	430.14	84.33	467,114.48	597,275.03
4,015.00	9.30	86.00	3,985.37	-443.04	44.56	442.95	445.19	84.26	467,116.56	597,289.95
4,110.00	9.50	84.10	4,079.09	-458.50	45.90	458.41	460.70	84.28	467,117.90	597,305.41
4,205.00	8.90	82.80	4,172.87	-473.60	47.63	473.50	475.89	84.26	467,119.63	597,320.50
4,300.00	8.40	82.60	4,266.79	-487.77	49.44	487.67	490.17	84.21	467,121.44	597,334.67
4,395.00	8.60	81.80	4,360.74	-501.69	51.35	501.58	504.20	84.15	467,123.35	597,348.58
4,491.00	7.70	77.80	4,455.77	-515.08	53.73	514.97	517.77	84.04	467,125.73	597,361.97
4,586.00	7.10	87.80	4,549.99	-527.17	55.30	527.06	529.95	84.01	467,127.30	597,374.06
4,681.00	9.10	88.30	4,644.03	-540.55	55.75	540.44	543.30	84.11	467,127.75	597,387.44
4,777.00	8.90	88.20	4,738.85	-555.56	56.21	555.45	558.28	84.22	467,128.21	597,402.45
4,873.00	7.90	85.30	4,833.82	-569.56	56.98	569.44	572.29	84.29	467,128.98	597,416.44
4,967.00	6.80	82.80	4,927.05	-581.53	58.21	581.40	584.31	84.28	467,130.21	597,428.40



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Survey										
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5,062.00	8.30	72.80	5,021.23	-593.66	60.94	593.54	596.66	84.14	467,132.94	597,440.54
5,157.00	9.30	79.60	5,115.11	-607.77	64.35	607.64	611.04	83.95	467,136.35	597,454.64
5,252.00	9.30	84.20	5,208.86	-622.96	66.52	622.82	626.37	83.90	467,138.52	597,469.82
5,347.00	8.30	84.70	5,302.74	-637.43	67.93	637.29	640.90	83.92	467,139.93	597,484.29
5,442.00	7.70	84.50	5,396.82	-650.60	69.17	650.45	654.12	83.93	467,141.17	597,497.45
5,536.00	6.90	85.90	5,490.05	-662.50	70.18	662.35	666.06	83.95	467,142.18	597,509.35
5,631.00	5.90	85.50	5,584.46	-673.06	70.97	672.91	676.64	83.98	467,142.97	597,519.91
5,727.00	5.20	85.10	5,680.01	-682.31	71.73	682.17	685.93	84.00	467,143.73	597,529.17
5,822.00	4.20	83.50	5,774.69	-690.06	72.49	689.91	693.71	84.00	467,144.49	597,536.91
5,916.00	4.00	77.30	5,868.45	-696.68	73.60	696.53	700.41	83.97	467,145.60	597,543.53
6,011.00	3.70	81.20	5,963.24	-702.95	74.80	702.79	706.76	83.93	467,146.80	597,549.79
6,106.00	2.80	78.70	6,058.08	-708.25	75.72	708.10	712.13	83.90	467,147.72	597,555.10
6,202.00	2.60	91.50	6,153.98	-712.73	76.12	712.57	716.63	83.90	467,148.12	597,559.57
6,297.00	2.20	85.30	6,248.89	-716.70	76.21	716.54	720.59	83.93	467,148.21	597,563.54
6,391.00	2.20	93.30	6,342.82	-720.30	76.26	720.14	724.17	83.96	467,148.26	597,567.14
6,485.00	2.20	89.90	6,436.75	-723.91	76.16	723.75	727.74	83.99	467,148.16	597,570.75
6,580.00	2.50	96.50	6,531.67	-727.79	75.93	727.63	731.58	84.04	467,147.93	597,574.63
6,675.00	0.70	114.00	6,626.63	-730.38	75.46	730.22	734.11	84.10	467,147.46	597,577.22
6,770.00	0.20	341.00	6,721.63	-730.85	75.38	730.70	734.57	84.11	467,147.38	597,577.70
6,865.00	0.20	185.40	6,816.63	-730.78	75.37	730.63	734.50	84.11	467,147.37	597,577.63
6,960.00	0.20	199.50	6,911.63	-730.71	75.05	730.56	734.40	84.13	467,147.05	597,577.56
7,055.00	0.30	264.30	7,006.63	-730.41	74.87	730.25	734.08	84.15	467,146.87	597,577.25
7,150.00	0.20	308.10	7,101.63	-730.03	74.94	729.87	733.71	84.14	467,146.94	597,576.87
7,246.00	0.70	172.00	7,197.63	-729.98	74.47	729.82	733.61	84.17	467,146.47	597,576.82
7,341.00	0.60	146.10	7,292.62	-730.33	73.48	730.18	733.87	84.25	467,145.48	597,577.18
7,436.00	0.60	161.30	7,387.62	-730.77	72.59	730.62	734.22	84.33	467,144.59	597,577.62
7,532.00	0.20	176.60	7,483.61	-730.94	71.95	730.79	734.32	84.38	467,143.95	597,577.79



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7,627.00	0.40	104.10	7,578.61	-731.27	71.70	731.12	734.63	84.40	467,143.70	597,578.12
7,723.00	0.20	44.00	7,674.61	-731.71	71.74	731.56	735.07	84.40	467,143.74	597,578.56
7,818.00	0.30	211.60	7,769.61	-731.70	71.65	731.55	735.05	84.41	467,143.65	597,578.55
7,913.00	0.20	273.40	7,864.61	-731.40	71.45	731.25	734.73	84.42	467,143.45	597,578.25
8,008.00	0.30	244.00	7,959.61	-731.01	71.35	730.86	734.34	84.42	467,143.35	597,577.86
8,104.00	0.30	299.70	8,055.61	-730.57	71.36	730.42	733.90	84.42	467,143.36	597,577.42
8,199.00	0.10	359.70	8,150.61	-730.35	71.57	730.20	733.70	84.40	467,143.57	597,577.20
8,294.00	0.30	54.10	8,245.61	-730.55	71.80	730.40	733.92	84.39	467,143.80	597,577.40
8,389.00	0.50	318.90	8,340.61	-730.48	72.26	730.33	733.90	84.35	467,144.26	597,577.33
8,484.00	0.50	289.50	8,435.60	-729.82	72.71	729.67	733.28	84.31	467,144.71	597,576.67
8,579.00	0.20	287.40	8,530.60	-729.27	72.90	729.12	732.76	84.29	467,144.90	597,576.12
8,675.00	0.30	220.30	8,626.60	-728.95	72.75	728.80	732.42	84.30	467,144.75	597,575.80
8,738.00	0.40	241.20	8,689.60	-728.65	72.52	728.50	732.10	84.31	467,144.52	597,575.50
8,779.00	0.40	246.50	8,730.60	-728.39	72.40	728.24	731.83	84.32	467,144.40	597,575.24
8,873.00	4.80	275.30	8,824.48	-724.17	72.63	724.02	727.66	84.27	467,144.63	597,571.02
8,905.00	9.00	272.70	8,856.24	-720.34	72.87	720.19	723.86	84.22	467,144.87	597,567.19
8,969.00	17.60	275.90	8,918.47	-705.69	74.10	705.53	709.42	84.00	467,146.10	597,552.53
9,064.00	28.80	279.60	9,005.65	-668.73	79.41	668.57	673.27	83.23	467,151.41	597,515.57
9,159.00	42.10	285.00	9,082.88	-615.18	91.53	614.99	621.76	81.53	467,163.53	597,461.99
9,254.00	53.60	285.10	9,146.53	-547.32	109.79	547.09	558.00	78.65	467,181.79	597,394.09
9,349.00	64.30	284.80	9,195.46	-468.84	130.75	468.57	486.47	74.41	467,202.75	597,315.57
9,444.00	73.10	283.70	9,229.93	-383.18	152.49	382.86	412.11	68.28	467,224.49	597,229.86
9,472.00	76.60	284.30	9,237.25	-356.97	159.03	356.64	390.49	65.97	467,231.03	597,203.64
9,556.00	80.90	286.10	9,253.63	-277.54	180.63	277.16	330.82	56.91	467,252.63	597,124.16
9,587.00	80.90	285.30	9,258.54	-248.09	188.91	247.69	311.51	52.67	467,260.91	597,094.69
9,682.00	81.10	280.50	9,273.41	-156.70	209.85	156.26	261.64	36.67	467,281.85	597,003.26
9,776.00	82.80	274.40	9,286.58	-64.48	221.90	64.02	230.95	16.09	467,293.90	596,911.02



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9,871.00	85.10	269.70	9,296.60	29.89	225.27	-30.36	227.31	352.32	467,297.27	596,816.64
9,967.00	89.10	262.30	9,301.46	125.46	218.58	-125.92	252.25	330.06	467,290.58	596,721.08
10,062.00	91.00	263.80	9,301.38	219.78	207.09	-220.21	302.29	313.24	467,279.09	596,626.79
10,158.00	89.90	264.10	9,300.63	315.26	196.97	-315.67	372.08	301.96	467,268.97	596,531.33
10,253.00	91.30	265.30	9,299.63	409.86	188.19	-410.26	451.36	294.64	467,260.19	596,436.74
10,347.00	95.80	270.50	9,293.81	503.57	184.75	-503.96	536.75	290.13	467,256.75	596,343.04
10,442.00	97.40	271.70	9,282.89	597.91	186.56	-598.30	626.72	287.32	467,258.56	596,248.70
10,537.00	94.90	273.20	9,272.71	692.26	190.60	-692.66	718.41	285.39	467,262.60	596,154.34
10,631.00	86.30	272.40	9,271.73	786.04	195.19	-786.45	810.31	283.94	467,267.19	596,060.55
10,726.00	86.50	269.20	9,277.69	880.83	196.51	-881.25	902.89	282.57	467,268.51	595,965.75
10,821.00	89.50	268.60	9,281.01	975.75	194.69	-976.16	995.38	281.28	467,266.69	595,870.84
10,916.00	93.90	270.70	9,278.19	1,070.68	194.10	-1,071.09	1,088.53	280.27	467,266.10	595,775.91
11,012.00	93.60	270.30	9,271.91	1,166.47	194.94	-1,166.88	1,183.05	279.48	467,266.94	595,680.12
11,107.00	94.50	270.20	9,265.20	1,261.23	195.35	-1,261.64	1,276.67	278.80	467,267.35	595,585.36
11,202.00	92.80	270.80	9,259.16	1,356.02	196.18	-1,356.44	1,370.55	278.23	467,268.18	595,490.56
11,297.00	88.50	272.70	9,258.08	1,450.94	199.08	-1,451.36	1,464.95	277.81	467,271.08	595,395.64
11,393.00	88.20	271.80	9,260.84	1,546.82	202.85	-1,547.25	1,560.49	277.47	467,274.85	595,299.75
11,488.00	88.00	271.70	9,263.99	1,641.71	205.75	-1,642.15	1,654.99	277.14	467,277.75	595,204.85
11,583.00	87.40	271.20	9,267.81	1,736.60	208.15	-1,737.04	1,749.47	276.83	467,280.15	595,109.96
11,678.00	88.00	269.20	9,271.62	1,831.52	208.48	-1,831.96	1,843.78	276.49	467,280.48	595,015.04
11,773.00	93.90	266.20	9,270.04	1,926.38	204.67	-1,926.82	1,937.66	276.06	467,276.67	594,920.18
11,868.00	92.70	264.80	9,264.57	2,020.95	197.23	-2,021.36	2,030.96	275.57	467,269.23	594,825.64
11,964.00	92.80	265.60	9,259.97	2,116.51	189.21	-2,116.92	2,125.35	275.11	467,261.21	594,730.08
12,059.00	95.30	271.60	9,253.25	2,211.20	186.89	-2,211.60	2,219.48	274.83	467,258.89	594,635.40
12,154.00	93.70	270.60	9,245.80	2,305.88	188.70	-2,306.28	2,313.99	274.68	467,260.70	594,540.72
12,249.00	89.90	269.50	9,242.82	2,400.82	188.79	-2,401.22	2,408.63	274.50	467,260.79	594,445.78
12,345.00	90.90	269.40	9,242.15	2,496.81	187.86	-2,497.21	2,504.27	274.30	467,259.86	594,349.79



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Norris Thornton Com RB
Well: No. 204H
Wellbore: OH
Design: MWD-184'-14421', Proj. 14497'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
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)
12,439.00	92.70	267.40	9,239.19	2,590.72	185.24	-2,591.12	2,597.73	274.09	467,257.24	594,255.88
12,534.00	95.70	269.50	9,232.24	2,685.42	182.68	-2,685.81	2,692.02	273.89	467,254.68	594,161.19
12,630.00	96.20	270.10	9,222.28	2,780.91	182.34	-2,781.29	2,787.26	273.75	467,254.34	594,065.71
12,725.00	95.90	270.00	9,212.27	2,875.38	182.43	-2,875.76	2,881.54	273.63	467,254.43	593,971.24
12,820.00	96.00	270.40	9,202.42	2,969.86	182.76	-2,970.25	2,975.87	273.52	467,254.76	593,876.75
12,916.00	92.80	272.30	9,195.06	3,065.53	185.01	-3,065.93	3,071.50	273.45	467,257.01	593,781.07
13,012.00	91.70	271.50	9,191.29	3,161.40	188.19	-3,161.80	3,167.39	273.41	467,260.19	593,685.20
13,107.00	90.50	270.50	9,189.47	3,256.36	189.85	-3,256.76	3,262.29	273.34	467,261.85	593,590.24
13,202.00	91.50	270.90	9,187.81	3,351.33	191.01	-3,351.74	3,357.18	273.26	467,263.01	593,495.26
13,297.00	90.70	269.70	9,185.98	3,446.31	191.51	-3,446.72	3,452.03	273.18	467,263.51	593,400.28
13,392.00	90.80	268.90	9,184.74	3,541.29	190.35	-3,541.70	3,546.81	273.08	467,262.35	593,305.30
13,487.00	91.10	268.20	9,183.17	3,636.26	187.94	-3,636.66	3,641.51	272.96	467,259.94	593,210.34
13,583.00	91.20	268.60	9,181.24	3,732.20	185.26	-3,732.60	3,737.20	272.84	467,257.26	593,114.40
13,678.00	91.30	268.20	9,179.17	3,827.15	182.61	-3,827.54	3,831.89	272.73	467,254.61	593,019.46
13,773.00	94.50	269.50	9,174.36	3,922.00	180.71	-3,922.39	3,926.55	272.64	467,252.71	592,924.61
13,867.00	93.60	268.70	9,167.72	4,015.75	179.23	-4,016.14	4,020.13	272.56	467,251.23	592,830.86
13,962.00	95.30	268.50	9,160.35	4,110.44	176.92	-4,110.82	4,114.62	272.46	467,248.92	592,736.18
14,057.00	95.10	267.70	9,151.74	4,205.00	173.78	-4,205.38	4,208.96	272.37	467,245.78	592,641.62
14,153.00	95.50	267.40	9,142.87	4,300.51	169.70	-4,300.88	4,304.22	272.26	467,241.70	592,546.12
14,247.00	89.10	264.10	9,139.10	4,394.13	162.74	-4,394.48	4,397.49	272.12	467,234.74	592,452.52
14,342.00	88.30	264.20	9,141.26	4,488.63	153.05	-4,488.96	4,491.57	271.95	467,225.05	592,358.04
14,421.00	87.60	263.80	9,144.08	4,567.16	144.80	-4,567.48	4,569.77	271.82	467,216.80	592,279.52
Last Survey: 14421' MD										
14,497.00	87.60	263.80	9,147.27	4,642.67	136.60	-4,642.97	4,644.98	271.69	467,208.60	592,204.03
PTB: 14497' MD										



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Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
184.00	184.00	0.97	0.58	Pro MWD First Survey: 184' MD
14,421.00	9,144.08	144.80	-4,567.48	Last Survey: 14421' MD
14,497.00	9,147.27	136.60	-4,642.97	PTB: 14497' MD