



PRODIRECTIONAL

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DISTRICT II-ARTESIA O.C.D.



Garrett Fed Com No. 122H

Eddy County, NM

October 08, 2018

Job No. LNM5184718

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

October 08, 2018



Operator Name: Matador Resources
Well Name: Garrett Fed Com No. 122H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5184718

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:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	172' MD – 13,425' MD	13,495' MD	08/28/18 – 09/10/18	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

Eddy County, NM
Garrett Fed Com
No. 122H
OH

Survey: ProDirectional

Survey Report

08 October, 2018





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 122H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 2949.50usft
Site:	Garrett Fed Com	MD Reference:	Well @ 2949.50usft
Well:	No. 122H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-172'-13425' Proj. 13495'	Database:	WellPlanner1

Project	Eddy County, NM (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	Garrett Fed Com		
Site Position:		Northing:	429,558.00 usft
From:	Map	Easting:	640,352.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.180528
		Longitude:	-104.013291
		Grid Convergence:	0.17 °

Well:		No. 122H				
Well Position	+N-S	0.00 usft	Northing:	427,467.00 usft	Latitude:	32.174780
	+E-W	0.00 usft	Easting:	640,378.00 usft	Longitude:	-104.013228
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,921.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	8/25/2018	7.07	59.93	47,967.50

Design	MWD-172'-13425' Proj. 13495'				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	90.10	

Survey Program	Date	10/8/2018		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
172.00	13,495.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



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Site: Garrett Fed Com
Well: No. 122H
Wellbore: OH
Design: MWD-172'-13425', Proj. 13495'

Local Co-ordinate Reference: Well No. 122H
TVD Reference: Well @ 2949.50usft
MD Reference: Well @ 2949.50usft
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	427,467.00	640,378.00	
172.00	2.40	91.00	171.95	3.60	-0.06	3.60	3.60	91.00	427,466.94	640,381.60	
Pro MWD First Survey: 172' MD											
294.00	2.50	104.90	293.84	8.73	-0.79	8.73	8.76	95.18	427,466.21	640,386.73	
386.00	2.50	102.00	385.75	12.63	-1.72	12.63	12.75	97.78	427,465.28	640,390.63	
477.00	2.70	96.70	476.66	16.70	-2.39	16.70	16.87	98.14	427,464.61	640,394.70	
543.00	3.00	97.00	542.58	19.96	-2.78	19.96	20.15	97.93	427,464.22	640,397.96	
608.00	3.30	92.70	607.48	23.52	-3.07	23.51	23.71	97.45	427,463.93	640,401.51	
700.00	2.00	74.70	699.38	27.71	-2.78	27.71	27.85	95.72	427,464.22	640,405.71	
791.00	1.40	312.80	790.36	28.43	-1.60	28.42	28.47	93.22	427,465.40	640,406.42	
881.00	5.30	297.50	880.19	23.93	1.07	23.93	23.95	87.45	427,468.07	640,401.93	
972.00	8.70	294.70	970.50	13.93	5.88	13.94	15.13	67.12	427,472.88	640,391.94	
1,062.00	9.60	296.10	1,059.35	1.00	12.03	1.02	12.07	4.85	427,479.03	640,379.02	
1,153.00	10.00	299.40	1,149.02	-12.71	19.25	-12.68	23.05	326.63	427,486.25	640,365.32	
1,244.00	7.50	302.60	1,238.96	-24.61	26.33	-24.57	36.01	316.98	427,493.33	640,353.43	
1,335.00	7.10	307.40	1,329.22	-34.09	32.94	-34.04	47.37	314.06	427,499.94	640,343.96	
1,430.00	7.40	314.80	1,423.46	-43.11	40.82	-43.04	59.32	313.48	427,507.82	640,334.96	
1,525.00	8.00	321.70	1,517.61	-51.57	50.32	-51.48	71.99	314.35	427,517.32	640,326.52	
1,620.00	8.80	318.00	1,611.59	-60.55	60.91	-60.44	85.81	315.22	427,527.91	640,317.56	
1,716.00	8.60	315.70	1,706.49	-70.49	71.50	-70.37	100.32	315.46	427,538.50	640,307.63	
1,810.00	8.10	305.40	1,799.49	-80.81	80.37	-80.67	113.87	314.89	427,547.37	640,297.33	
1,906.00	7.10	296.40	1,894.65	-91.65	86.92	-91.50	126.21	313.53	427,553.92	640,286.50	
2,000.00	7.20	302.30	1,987.92	-101.85	92.65	-101.68	137.57	312.34	427,559.65	640,276.32	
2,096.00	5.80	299.10	2,083.30	-111.18	98.23	-111.01	148.23	311.50	427,565.23	640,266.99	
2,191.00	5.10	302.60	2,177.87	-118.94	102.84	-118.76	157.10	310.89	427,569.84	640,259.24	
2,285.00	6.20	296.60	2,271.42	-127.01	107.36	-126.82	166.16	310.25	427,574.36	640,251.18	
2,381.00	6.10	296.70	2,366.86	-136.21	111.98	-136.01	176.17	309.46	427,578.98	640,241.99	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 122H
Wellbore: OH
Design: MWD-172-13425, Proj. 13495

Local Co-ordinate Reference: Well No. 122H
TVD Reference: Well @ 2949.50usft
MD Reference: Well @ 2949.50usft
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)	
2,476.00	5.20	301.40	2,461.40	-144.40	116.49	-144.20	185.37	308.93	427,583.49	640,233.80	
2,571.00	5.80	280.40	2,555.97	-152.80	119.60	-152.59	193.88	308.09	427,586.60	640,225.41	
2,667.00	6.70	277.00	2,651.40	-163.13	121.15	-162.92	203.03	306.64	427,588.15	640,215.08	
2,762.00	6.50	282.10	2,745.77	-173.89	122.96	-173.68	212.80	305.30	427,589.96	640,204.32	
2,857.00	6.80	282.50	2,840.13	-184.65	125.30	-184.43	222.97	304.19	427,592.30	640,193.57	
2,940.00	7.20	283.30	2,922.52	-194.51	127.56	-194.29	232.42	303.29	427,594.56	640,183.71	
3,035.00	7.50	284.90	3,016.74	-206.30	130.53	-206.07	243.93	302.35	427,597.53	640,171.93	
3,131.00	7.30	284.50	3,111.94	-218.27	133.66	-218.03	255.74	301.51	427,600.66	640,159.97	
3,227.00	7.10	286.00	3,207.18	-229.88	136.83	-229.64	267.31	300.79	427,603.83	640,148.36	
3,322.00	7.00	285.10	3,301.46	-241.12	139.95	-240.87	278.58	300.16	427,606.95	640,137.13	
3,417.00	6.80	283.90	3,395.77	-252.17	142.81	-251.92	289.59	299.55	427,609.81	640,126.08	
3,512.00	7.70	304.60	3,490.03	-262.88	147.78	-262.62	301.34	299.37	427,614.78	640,115.38	
3,608.00	8.10	306.50	3,585.12	-273.62	155.45	-273.35	314.46	299.63	427,622.45	640,104.65	
3,703.00	7.90	305.50	3,679.19	-284.33	163.22	-284.05	327.61	299.88	427,630.22	640,093.95	
3,798.00	7.60	304.00	3,773.32	-294.87	170.53	-294.57	340.37	300.07	427,637.53	640,083.43	
3,893.00	7.60	302.50	3,867.49	-305.39	177.42	-305.08	352.92	300.18	427,644.42	640,072.92	
3,988.00	7.50	302.30	3,961.67	-315.94	184.11	-315.62	365.39	300.26	427,651.11	640,062.38	
4,083.00	7.60	301.10	4,055.84	-326.57	190.66	-326.24	377.87	300.30	427,657.66	640,051.76	
4,178.00	7.60	299.30	4,150.01	-337.44	196.98	-337.09	390.43	300.30	427,663.98	640,040.91	
4,274.00	7.40	299.00	4,245.19	-348.39	203.09	-348.04	402.96	300.26	427,670.09	640,029.96	
4,369.00	7.50	298.40	4,339.39	-359.21	209.00	-358.84	415.27	300.22	427,676.00	640,019.16	
4,464.00	7.40	297.70	4,433.58	-370.09	214.79	-369.71	427.58	300.16	427,681.79	640,008.29	
4,559.00	7.30	297.30	4,527.80	-380.88	220.41	-380.49	439.72	300.08	427,687.41	639,997.51	
4,655.00	7.30	296.20	4,623.02	-391.78	225.90	-391.38	451.90	299.99	427,692.90	639,986.62	
4,750.00	7.30	296.80	4,717.25	-402.59	231.28	-402.19	463.95	299.90	427,698.28	639,975.81	
4,846.00	7.20	296.30	4,812.49	-413.44	236.70	-413.02	476.04	299.82	427,703.70	639,964.98	
4,941.00	7.00	295.60	4,906.76	-424.00	241.84	-423.58	487.76	299.72	427,708.84	639,954.42	



ProDirectional
Survey Report



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Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 122H
Wellbore: OH
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Local Co-ordinate Reference: Well No. 122H
TVD Reference: Well @ 2949.50usft
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5,037.00	6.40	292.90	5,002.10	-434.22	246.45	-433.79	498.91	299.60	427,713.45	639,944.21	
5,132.00	6.20	292.30	5,096.53	-443.85	250.45	-443.41	509.25	299.46	427,717.45	639,934.59	
5,227.00	6.20	291.40	5,190.97	-453.38	254.27	-452.93	519.42	299.31	427,721.27	639,925.07	
5,323.00	5.90	310.60	5,286.45	-461.96	259.37	-461.51	529.40	299.34	427,726.37	639,916.49	
5,418.00	5.50	310.30	5,380.98	-469.15	265.50	-468.69	538.66	299.53	427,732.50	639,909.31	
5,514.00	5.40	310.00	5,476.54	-476.13	271.38	-475.66	547.62	299.71	427,738.38	639,902.34	
5,609.00	5.10	310.00	5,571.15	-482.80	276.96	-482.31	556.18	299.87	427,743.96	639,895.69	
5,705.00	4.90	307.20	5,666.78	-489.34	282.19	-488.85	564.45	300.00	427,749.19	639,889.15	
5,800.00	4.80	306.70	5,761.44	-495.77	287.01	-495.27	572.42	300.09	427,754.01	639,882.73	
5,895.00	4.60	305.70	5,856.12	-502.06	291.61	-501.55	580.16	300.17	427,758.61	639,876.45	
5,991.00	4.30	301.40	5,951.83	-508.26	295.73	-507.75	587.59	300.22	427,762.73	639,870.25	
6,086.00	4.30	300.40	6,046.56	-514.38	299.39	-513.86	594.71	300.23	427,766.39	639,864.14	
6,182.00	4.00	296.30	6,142.31	-520.49	302.70	-519.96	601.65	300.21	427,769.70	639,858.04	
6,277.00	3.90	297.90	6,237.09	-526.32	305.68	-525.79	608.19	300.17	427,772.68	639,852.21	
6,372.00	2.20	286.80	6,331.95	-530.93	307.71	-530.39	613.19	300.12	427,774.71	639,847.61	
6,468.00	2.10	282.60	6,427.88	-534.41	308.63	-533.87	616.66	300.03	427,775.63	639,844.13	
6,563.00	2.20	282.20	6,522.82	-537.89	309.40	-537.35	620.06	299.93	427,776.40	639,840.65	
6,658.00	2.20	286.30	6,617.75	-541.42	310.29	-540.88	623.57	299.84	427,777.29	639,837.12	
6,753.00	1.90	283.70	6,712.68	-544.71	311.18	-544.16	626.85	299.76	427,778.18	639,833.84	
6,848.00	1.90	273.70	6,807.63	-547.81	311.65	-547.27	629.78	299.66	427,778.65	639,830.73	
6,943.00	2.70	273.20	6,902.56	-551.62	311.88	-551.07	633.20	299.51	427,778.88	639,826.93	
7,038.00	0.40	252.10	6,997.51	-554.17	311.90	-553.62	635.44	299.40	427,778.90	639,824.38	
7,134.00	1.00	178.60	7,093.51	-554.46	310.96	-553.92	635.24	299.31	427,777.96	639,824.08	
7,229.00	1.60	172.00	7,188.48	-554.25	308.82	-553.72	634.01	299.15	427,775.82	639,824.28	
7,324.00	1.10	93.60	7,283.46	-553.16	307.45	-552.62	632.39	299.09	427,774.45	639,825.38	
7,419.00	1.90	99.40	7,378.43	-550.69	307.13	-550.16	630.08	299.17	427,774.13	639,827.84	
7,514.00	1.80	120.00	7,473.38	-547.84	306.13	-547.31	627.11	299.22	427,773.13	639,830.69	



ProDirectional Survey Report



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Site: Garrett Fed Com
Well: No. 122H
Wellbore: OH
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7,610.00	1.50	121.00	7,569.34	-545.46	304.73	-544.93	624.35	299.21	427,771.73	639,833.07
7,705.00	0.70	93.80	7,664.32	-543.81	304.05	-543.28	622.58	299.23	427,771.05	639,834.72
7,801.00	0.80	9.30	7,760.32	-543.12	304.67	-542.59	622.28	299.31	427,771.67	639,835.41
7,896.00	0.60	324.10	7,855.31	-543.31	305.73	-542.77	622.96	299.39	427,772.73	639,835.23
7,960.00	1.70	246.40	7,919.30	-544.37	305.62	-543.84	623.83	299.33	427,772.62	639,834.16
8,004.00	2.40	244.90	7,963.27	-545.80	304.97	-545.27	624.76	299.22	427,771.97	639,832.73
8,099.00	1.80	156.50	8,058.23	-547.01	302.76	-546.48	624.74	298.99	427,769.76	639,831.52
8,131.00	6.10	110.70	8,090.15	-545.21	301.70	-544.69	622.66	298.98	427,768.70	639,833.31
8,194.00	15.10	95.00	8,152.02	-533.88	299.79	-533.36	611.84	299.34	427,766.79	639,844.64
8,289.00	24.60	87.60	8,241.29	-501.72	299.54	-501.19	583.88	300.86	427,766.54	639,876.81
8,384.00	35.70	86.50	8,323.31	-454.15	302.07	-453.62	545.00	303.66	427,769.07	639,924.38
8,480.00	47.20	89.30	8,395.15	-390.76	304.22	-390.23	494.80	307.94	427,771.22	639,987.77
8,575.00	58.00	91.40	8,452.77	-315.41	303.66	-314.88	437.45	313.96	427,770.66	640,063.12
8,670.00	66.40	96.20	8,497.06	-231.67	297.96	-231.15	377.11	322.20	427,764.96	640,146.85
8,701.00	71.00	95.00	8,508.31	-202.93	295.15	-202.41	357.89	325.56	427,762.15	640,175.59
8,765.00	80.90	91.90	8,523.84	-141.03	291.45	-140.52	323.56	334.26	427,758.45	640,237.48
8,860.00	85.90	91.40	8,534.75	-46.73	288.74	-46.22	292.41	350.90	427,755.74	640,331.78
8,956.00	85.90	91.90	8,541.62	48.99	285.98	49.49	290.23	9.82	427,752.98	640,427.49
9,051.00	87.30	91.80	8,547.25	143.78	282.92	144.27	317.58	27.02	427,749.92	640,522.27
9,146.00	88.20	92.10	8,550.98	238.65	279.69	239.14	367.99	40.53	427,746.69	640,617.14
9,242.00	88.30	90.80	8,553.91	334.58	277.26	335.06	434.90	50.39	427,744.26	640,713.06
9,337.00	89.00	89.20	8,556.15	429.55	277.26	430.03	511.67	57.19	427,744.26	640,808.03
9,432.00	89.80	89.10	8,557.14	524.53	278.67	525.02	594.39	62.04	427,745.67	640,903.02
9,527.00	89.50	89.30	8,557.72	619.52	280.00	620.01	680.30	65.70	427,747.00	640,998.01
9,622.00	89.10	90.20	8,558.89	714.51	280.41	715.00	768.02	68.59	427,747.41	641,093.00
9,717.00	89.70	90.50	8,559.88	809.50	279.83	809.99	856.97	70.94	427,746.83	641,187.99
9,812.00	90.10	90.70	8,560.05	904.50	278.84	904.98	946.97	72.88	427,745.84	641,282.98



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 122H
Wellbore: OH
Design: MWD-172'-13425', Proj. 13495'

Local Co-ordinate Reference: Well No. 122H
TVD Reference: Well @ 2949.50usft
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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)
9,906.00	89.40	89.20	89.20	8,560.46	998.49	278.92	998.98	1,037.19	74.40	427,745.92	641,376.98
10,002.00	90.80	90.60	90.60	8,560.29	1,094.49	279.09	1,094.98	1,129.98	75.70	427,746.09	641,472.98
10,097.00	90.40	89.00	89.00	8,559.29	1,189.48	279.42	1,189.97	1,222.33	76.79	427,746.42	641,567.97
10,192.00	89.30	87.00	87.00	8,559.54	1,284.41	282.73	1,284.90	1,315.64	77.59	427,749.73	641,662.90
10,287.00	89.90	87.80	87.80	8,560.21	1,379.30	287.04	1,379.80	1,409.34	78.25	427,754.04	641,757.80
10,383.00	90.30	87.80	87.80	8,560.04	1,475.22	290.73	1,475.73	1,504.09	78.86	427,757.73	641,853.73
10,478.00	90.60	87.90	87.90	8,559.29	1,570.14	294.29	1,570.66	1,597.99	79.39	427,761.29	641,948.66
10,574.00	88.60	88.20	88.20	8,559.96	1,666.07	297.56	1,666.60	1,692.95	79.88	427,764.56	642,044.60
10,669.00	88.00	87.40	87.40	8,562.78	1,760.96	301.20	1,761.48	1,787.05	80.30	427,768.20	642,139.48
10,765.00	87.50	86.60	86.60	8,566.55	1,856.74	306.22	1,857.28	1,882.35	80.64	427,773.22	642,235.28
10,860.00	90.20	92.90	92.90	8,568.46	1,951.66	306.63	1,952.20	1,976.14	81.07	427,773.63	642,330.20
10,956.00	90.10	93.50	93.50	8,568.21	2,047.52	301.28	2,048.05	2,070.09	81.63	427,768.28	642,426.05
11,051.00	88.90	92.20	92.20	8,569.04	2,142.40	296.55	2,142.93	2,163.35	82.12	427,763.55	642,520.93
11,146.00	88.40	89.50	89.50	8,571.27	2,237.36	295.14	2,237.88	2,257.26	82.49	427,762.14	642,615.88
11,241.00	88.20	89.00	89.00	8,574.09	2,332.31	296.39	2,332.83	2,351.58	82.76	427,763.39	642,710.83
11,336.00	88.80	90.40	90.40	8,576.58	2,427.27	296.88	2,427.79	2,445.88	83.03	427,763.88	642,805.79
11,432.00	88.70	89.40	89.40	8,578.67	2,523.25	297.05	2,523.77	2,541.19	83.29	427,764.05	642,901.77
11,526.00	89.30	90.10	90.10	8,580.31	2,617.23	297.46	2,617.75	2,634.60	83.52	427,764.46	642,995.75
11,621.00	89.90	90.30	90.30	8,580.98	2,712.23	297.13	2,712.75	2,728.97	83.75	427,764.13	643,090.75
11,716.00	90.60	90.50	90.50	8,580.56	2,807.22	296.47	2,807.74	2,823.35	83.97	427,763.47	643,185.74
11,812.00	91.10	91.00	91.00	8,579.14	2,903.21	295.21	2,903.73	2,918.69	84.19	427,762.21	643,281.73
11,906.00	89.50	89.70	89.70	8,578.65	2,997.20	294.64	2,997.72	3,012.16	84.39	427,761.64	643,375.72
12,001.00	90.00	90.80	90.80	8,579.06	3,092.20	294.22	3,092.71	3,106.68	84.57	427,761.22	643,470.71
12,097.00	88.80	90.00	90.00	8,580.07	3,188.19	293.55	3,188.70	3,202.19	84.74	427,760.55	643,566.70
12,191.00	89.10	90.70	90.70	8,581.79	3,282.17	292.98	3,282.69	3,295.73	84.90	427,759.98	643,660.69
12,287.00	88.80	90.00	90.00	8,583.55	3,378.15	292.39	3,378.67	3,391.29	85.05	427,759.39	643,756.67
12,382.00	88.90	90.10	90.10	8,585.45	3,473.13	292.31	3,473.65	3,485.92	85.19	427,759.31	643,851.65



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Corn
Well: No. 122H
Wellbore: OH
Design: MWD-172'-13425', Proj. 13495'

Local Co-ordinate Reference: Well No. 122H
TVD Reference: Well @ 2949.50usft.
MD Reference: Well @ 2949.50usft.
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)	
12,477.00	91.30	93.10	8,585.29	3,568.08	289.66	3,568.59	3,580.33	85.36	427,756.66	643,946.59	
12,573.00	89.40	92.90	8,584.70	3,663.95	284.63	3,664.45	3,675.49	85.56	427,751.63	644,042.45	
12,668.00	87.90	91.70	8,586.94	3,758.85	280.82	3,759.35	3,769.82	85.73	427,747.82	644,137.35	
12,763.00	86.30	89.10	8,591.75	3,853.72	280.16	3,854.21	3,864.38	85.84	427,747.16	644,232.21	
12,859.00	86.30	88.90	8,597.94	3,949.50	281.83	3,950.00	3,960.04	85.92	427,748.83	644,328.00	
12,954.00	87.30	90.30	8,603.25	4,044.34	282.49	4,044.84	4,054.70	86.00	427,749.49	644,422.84	
13,050.00	87.40	90.80	8,607.68	4,140.24	281.57	4,140.74	4,150.30	86.11	427,748.57	644,518.74	
13,145.00	87.50	90.90	8,611.91	4,235.14	280.16	4,235.63	4,244.89	86.22	427,747.16	644,613.63	
13,241.00	88.30	92.10	8,615.43	4,331.04	277.65	4,331.53	4,340.42	86.33	427,744.65	644,709.53	
13,336.00	88.10	92.40	8,618.41	4,425.93	273.92	4,426.41	4,434.88	86.46	427,740.92	644,804.41	
13,425.00	88.40	92.40	8,621.13	4,514.81	270.20	4,515.29	4,523.37	86.58	427,737.20	644,893.29	
Last Survey: 13425' MD											
13,495.00	88.40	92.40	8,623.09	4,584.73	267.27	4,585.20	4,592.99	86.66	427,734.27	644,963.20	
PTB: 13495' MD											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
172.00	171.95	-0.06	3.60	Pro MWD First Survey: 172' MD	
13,425.00	8,621.13	270.20	4,515.29	Last Survey: 13425' MD	
13,495.00	8,623.09	267.27	4,585.20	PTB: 13495' MD	