



Azimuths to Grid North  
True North: -1.04°  
Magnetic North: 7.01°  
  
Magnetic Field  
Strength: 53146nT  
Dip Angle: 67.36°  
Date: 03/04/2014  
Model: IGRF2010

**LEGEND**  
— 8-20-9-58,Original Hole,Plan #3 proj  
— Original Hole

**ANNOTATIONS**

No.	TVD	MD	Annotation
1	5736.17	5828.00	300' Entry

**CASING DETAILS**

No.	TVD	MD	Name	Size
1	1420.47	1428.00	9 5/8"	9.625
2	5908.48	6292.00	7"	7.000

**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 8-20	0.00	0.00	0.00	1514506.88	3444629.82	40°44'04.778N103°53'44.016W		Point
300' Entry 8-20	5745.93	-377.88	-273.11	1514129.00	3444356.71	40°44'01.093N103°53'47.652W		Point
BHL 8-20	5806.06	-334.52	3748.43	1514172.36	3448378.25	40°44'00.800N103°52'55.411W		Point
PBHL 8-20	5815.00	-319.69	4056.22	1514187.19	3448686.04	40°44'00.891N103°52'51.410W		Point

# Precision Directional Services, Inc.

## Survey Report

<b>Company:</b> CARRIZO OIL & GAS, INC.		<b>Date:</b> 03/19/2014		<b>Time:</b> 09:00:07		<b>Page:</b> 1	
<b>Field:</b> Niobrara CONZ'83		<b>Co-ordinate(NE) Reference:</b> Well: 8-20-9-58, Grid North					
<b>Site:</b> Bringleson Ranch 8-20-9-58		<b>Vertical (TVD) Reference:</b> 4919'GL+17"KB 4936.0					
<b>Well:</b> 8-20-9-58		<b>Section (VS) Reference:</b> Well (0.00N,0.00E,88.54Azi)					
<b>Wellpath:</b> Original Hole		<b>Survey Calculation Method:</b> Minimum Curvature		<b>Db:</b> Adapti			

  

<b>Field:</b> Niobrara CONZ'83			
<b>Map System:</b> US State Plane Coordinate System 1983		<b>Map Zone:</b> Colorado, Northern Zone	
<b>Geo Datum:</b> GRS 1980		<b>Coordinate System:</b> Well Centre	
<b>Sys Datum:</b> Mean Sea Level		<b>Geomagnetic Model:</b> IGRF2010	

  

<b>Site:</b> Bringleson Ranch 8-20-9-58			
<b>Site Position:</b>		<b>Northing:</b> 1514506.88 ft	
<b>From:</b> Map		<b>Easting:</b> 3444629.82 ft	
<b>Position Uncertainty:</b> 0.00 ft		<b>Latitude:</b> 40 44 4.778 N	
<b>Ground Level:</b> 4919.00 ft		<b>Longitude:</b> 103 53 44.016 W	
		<b>North Reference:</b> Grid	
		<b>Grid Convergence:</b> 1.04 deg	

  

<b>Well:</b> 8-20-9-58		<b>Slot Name:</b> 8-20	
<b>Well Position:</b> +N/-S 0.00 ft		<b>Latitude:</b> 40 44 4.778 N	
<b>+E/-W</b> 0.00 ft		<b>Longitude:</b> 103 53 44.016 W	
<b>Position Uncertainty:</b> 0.00 ft			

  

<b>Wellpath:</b> Original Hole		<b>Drilled From:</b> Surface	
<b>Current Datum:</b> 4919'GL+17"KB		<b>Tie-on Depth:</b> 0.00 ft	
<b>Magnetic Data:</b> 03/04/2014		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 53146 nT		<b>Declination:</b> 8.05 deg	
<b>Vertical Section:</b> Depth From (TVD)		<b>Mag Dip Angle:</b> 67.36 deg	
ft		+N/-S ft	
0.00		0.00	
		ft	
		0.00	
		88.54	
		deg	

  

<b>Survey Program for Definitive Wellpath</b>			
<b>Date:</b> 03/10/2014		<b>Validated:</b> No	
<b>Actual From</b> ft		<b>Version:</b> 3	
<b>To</b> ft		<b>Toolcode</b>	
<b>Survey</b>		<b>Tool Name</b>	
140.00	9791.00	Survey #1 (140.00-9791.00)	MWD
9874.00	9874.00	Survey #2 (9874.00-9874.00)	Std MWD
		Project	Projection

  

<b>Survey</b>										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
140.00	0.60	251.00	140.00	-0.24	-0.69	-0.70	0.43	0.43	0.00	MWD
234.00	1.80	219.90	233.98	-1.53	-2.11	-2.14	1.41	1.28	-33.09	MWD
326.00	3.20	224.10	325.89	-4.48	-4.82	-4.93	1.53	1.52	4.57	MWD
417.00	4.20	229.20	416.70	-8.49	-9.11	-9.32	1.16	1.10	5.60	MWD
509.00	6.40	229.00	508.30	-14.05	-15.53	-15.88	2.39	2.39	-0.22	MWD
600.00	7.30	236.40	598.65	-20.58	-24.17	-24.69	1.38	0.99	8.13	MWD
692.00	7.20	232.70	689.91	-27.31	-33.63	-34.31	0.52	-0.11	-4.02	MWD
783.00	7.20	233.40	780.20	-34.16	-42.74	-43.60	0.10	0.00	0.77	MWD
875.00	7.20	234.70	871.47	-40.93	-52.08	-53.10	0.18	0.00	1.41	MWD
966.00	7.00	234.50	961.77	-47.45	-61.25	-62.43	0.22	-0.22	-0.22	MWD
1058.00	6.80	233.60	1053.11	-53.93	-70.19	-71.54	0.25	-0.22	-0.98	MWD
1149.00	6.90	235.40	1143.46	-60.24	-79.03	-80.54	0.26	0.11	1.98	MWD
1241.00	6.90	233.10	1234.79	-66.69	-88.00	-89.67	0.30	0.00	-2.50	MWD
1332.00	6.80	236.60	1325.14	-72.94	-96.87	-98.69	0.47	-0.11	3.85	MWD
1391.00	6.70	239.10	1383.73	-76.63	-102.74	-104.65	0.53	-0.17	4.24	MWD
1500.00	7.10	241.70	1491.94	-83.09	-114.12	-116.20	0.47	0.37	2.39	MWD
1585.00	7.20	244.00	1576.28	-87.91	-123.54	-125.74	0.36	0.12	2.71	MWD
1670.00	7.10	248.70	1660.62	-92.16	-133.22	-135.52	0.70	-0.12	5.53	MWD
1755.00	7.60	235.20	1744.93	-97.27	-142.73	-145.16	2.11	0.59	-15.88	MWD
1840.00	6.10	231.30	1829.32	-103.31	-150.87	-153.45	1.85	-1.76	-4.59	MWD
1925.00	5.20	234.10	1913.91	-108.39	-157.51	-160.22	1.11	-1.06	3.29	MWD

# Precision Directional Services, Inc.

## Survey Report

<b>Company:</b> CARRIZO OIL & GAS, INC. <b>Field:</b> Niobrara CONZ'83 <b>Site:</b> Bringleson Ranch 8-20-9-58 <b>Well:</b> 8-20-9-58 <b>Wellpath:</b> Original Hole	<b>Date:</b> 03/19/2014 <b>Time:</b> 09:00:07 <b>Page:</b> 2 <b>Co-ordinate(NE) Reference:</b> Well: 8-20-9-58, Grid North <b>Vertical (TVD) Reference:</b> 4919'GL+17"KB 4936.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,88.54Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Adapti
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### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2010.00	6.60	228.90	1998.46	-113.86	-164.32	-167.16	1.76	1.65	-6.12	MWD
2096.00	5.50	224.10	2083.98	-120.07	-170.91	-173.91	1.41	-1.28	-5.58	MWD
2180.00	6.20	225.30	2167.54	-126.15	-176.93	-180.09	0.85	0.83	1.43	MWD
2265.00	6.20	227.80	2252.04	-132.46	-183.60	-186.91	0.32	0.00	2.94	MWD
2350.00	7.20	225.30	2336.46	-139.29	-190.78	-194.27	1.23	1.18	-2.94	MWD
2434.00	6.50	220.10	2419.86	-146.63	-197.59	-201.26	1.11	-0.83	-6.19	MWD
2518.00	7.00	219.70	2503.28	-154.21	-203.92	-207.78	0.60	0.60	-0.48	MWD
2603.00	8.50	222.70	2587.50	-162.81	-211.49	-215.57	1.83	1.76	3.53	MWD
2688.00	8.90	222.50	2671.52	-172.27	-220.19	-224.51	0.47	0.47	-0.24	MWD
2773.00	8.50	219.90	2755.54	-181.94	-228.66	-233.22	0.66	-0.47	-3.06	MWD
2858.00	8.40	221.80	2839.62	-191.39	-236.83	-241.63	0.35	-0.12	2.24	MWD
2943.00	7.90	217.80	2923.76	-200.63	-244.55	-249.58	0.89	-0.59	-4.71	MWD
3028.00	7.00	223.20	3008.04	-209.02	-251.68	-256.92	1.34	-1.06	6.35	MWD
3113.00	6.50	229.00	3092.46	-215.95	-258.85	-264.27	0.99	-0.59	6.82	MWD
3198.00	6.90	229.40	3176.88	-222.43	-266.36	-271.94	0.47	0.47	0.47	MWD
3283.00	6.50	229.20	3261.29	-228.90	-273.88	-279.62	0.47	-0.47	-0.24	MWD
3368.00	8.50	234.10	3345.56	-235.73	-282.61	-288.52	2.47	2.35	5.76	MWD
3453.00	9.80	231.80	3429.48	-243.89	-293.38	-299.50	1.59	1.53	-2.71	MWD
3538.00	8.40	226.70	3513.41	-252.62	-303.59	-309.93	1.90	-1.65	-6.00	MWD
3623.00	8.40	228.00	3597.50	-261.03	-312.72	-319.27	0.22	0.00	1.53	MWD
3708.00	9.30	226.60	3681.49	-269.90	-322.32	-329.10	1.09	1.06	-1.65	MWD
3793.00	7.90	225.00	3765.53	-278.75	-331.45	-338.44	1.67	-1.65	-1.88	MWD
3877.00	7.50	221.30	3848.77	-286.95	-339.15	-346.35	0.76	-0.48	-4.40	MWD
3962.00	6.50	213.00	3933.14	-295.16	-345.43	-352.84	1.67	-1.18	-9.76	MWD
4047.00	6.90	217.60	4017.56	-303.24	-351.16	-358.78	0.79	0.47	5.41	MWD
4132.00	6.90	227.80	4101.95	-310.71	-358.06	-365.86	1.44	0.00	12.00	MWD
4217.00	7.20	220.90	4186.31	-318.17	-365.33	-373.32	1.06	0.35	-8.12	MWD
4302.00	7.00	232.20	4270.66	-325.37	-372.91	-381.08	1.66	-0.24	13.29	MWD
4387.00	6.50	234.70	4355.07	-331.32	-380.93	-389.25	0.68	-0.59	2.94	MWD
4472.00	5.70	225.90	4439.59	-337.04	-387.89	-396.35	1.45	-0.94	-10.35	MWD
4557.00	6.80	231.80	4524.08	-343.09	-394.88	-403.49	1.50	1.29	6.94	MWD
4642.00	8.00	240.50	4608.38	-349.12	-403.98	-412.74	1.93	1.41	10.24	MWD
4726.00	5.50	235.40	4691.79	-354.28	-412.38	-421.27	3.06	-2.98	-6.07	MWD
4811.00	5.10	239.80	4776.42	-358.50	-419.00	-428.00	0.67	-0.47	5.18	MWD
4896.00	5.80	247.50	4861.04	-362.04	-426.23	-435.32	1.19	0.82	9.06	MWD
4981.00	4.00	248.40	4945.73	-364.77	-432.96	-442.11	2.12	-2.12	1.06	MWD
5066.00	2.70	248.70	5030.58	-366.59	-437.58	-446.78	1.53	-1.53	0.35	MWD
5151.00	2.20	234.50	5115.50	-368.27	-440.77	-450.01	0.92	-0.59	-16.71	MWD
5236.00	1.40	219.20	5200.46	-370.02	-442.76	-452.04	1.09	-0.94	-18.00	MWD
5275.00	1.10	221.30	5239.45	-370.67	-443.31	-452.61	0.78	-0.77	5.38	MWD
5318.00	0.90	229.40	5282.44	-371.20	-443.83	-453.15	0.57	-0.47	18.84	MWD
5360.00	1.10	148.50	5324.44	-371.76	-443.87	-453.20	3.11	0.48	-192.62	MWD
5403.00	4.80	104.40	5367.38	-372.56	-441.92	-451.26	9.49	8.60	-102.56	MWD
5445.00	11.20	96.80	5408.95	-373.48	-436.16	-445.53	15.41	15.24	-18.10	MWD
5488.00	16.90	90.30	5450.65	-374.01	-425.75	-435.14	13.73	13.26	-15.12	MWD
5530.00	22.20	87.50	5490.21	-373.69	-411.71	-421.10	12.81	12.62	-6.67	MWD
5572.00	25.60	87.90	5528.61	-373.01	-394.71	-404.08	8.10	8.10	0.95	MWD
5615.00	25.50	90.00	5567.40	-372.67	-376.17	-385.54	2.12	-0.23	4.88	MWD
5657.00	28.40	96.30	5604.85	-373.77	-357.19	-366.60	9.68	6.90	15.00	MWD
5699.00	34.50	99.30	5640.66	-376.79	-335.50	-345.00	14.99	14.52	7.14	MWD
5742.00	39.70	98.40	5674.94	-380.77	-309.88	-319.48	12.16	12.09	-2.09	MWD
5784.00	44.70	94.40	5706.05	-383.86	-281.86	-291.55	13.51	11.90	-9.52	MWD
5827.00	48.80	90.90	5735.52	-385.28	-250.59	-260.33	11.23	9.53	-8.14	MWD

# Precision Directional Services, Inc.

## Survey Report

<b>Company:</b> CARRIZO OIL & GAS, INC. <b>Field:</b> Niobrara CONZ'83 <b>Site:</b> Bringleson Ranch 8-20-9-58 <b>Well:</b> 8-20-9-58 <b>Wellpath:</b> Original Hole	<b>Date:</b> 03/19/2014 <b>Time:</b> 09:00:07 <b>Page:</b> 3 <b>Co-ordinate(NE) Reference:</b> Well: 8-20-9-58, Grid North <b>Vertical (TVD) Reference:</b> 4919'GL+17"KB 4936.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,88.54Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Adapti
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### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5828.00	48.90	90.86	5736.17	-385.29	-249.84	-259.57	10.33	9.98	-3.54	300' Entry
5869.00	53.00	89.50	5762.00	-385.38	-218.01	-227.75	10.33	10.00	-3.33	MWD
5912.00	55.80	91.20	5787.03	-385.60	-183.05	-192.81	7.26	6.51	3.95	MWD
5954.00	58.30	92.40	5809.87	-386.72	-147.83	-157.63	6.42	5.95	2.86	MWD
5997.00	60.30	93.90	5831.83	-388.75	-110.91	-120.78	5.53	4.65	3.49	MWD
6039.00	64.60	91.70	5851.25	-390.56	-73.73	-83.66	11.24	10.24	-5.24	MWD
6082.00	67.50	89.60	5868.70	-390.99	-34.44	-44.39	8.09	6.74	-4.88	MWD
6124.00	73.30	89.10	5882.79	-390.54	5.11	-4.85	13.85	13.81	-1.19	MWD
6166.00	78.90	88.90	5892.87	-389.83	45.85	35.91	13.34	13.33	-0.48	MWD
6202.00	82.70	88.80	5898.63	-389.12	81.38	71.44	10.56	10.56	-0.28	MWD
6242.00	82.90	89.50	5903.64	-388.53	121.06	111.12	1.81	0.50	1.75	MWD
6339.00	88.90	87.20	5910.57	-385.74	217.72	207.82	6.62	6.19	-2.37	MWD
6385.00	89.30	87.50	5911.30	-383.61	263.66	253.80	1.09	0.87	0.65	MWD
6431.00	89.50	87.50	5911.78	-381.60	309.62	299.79	0.43	0.43	0.00	MWD
6476.00	89.70	87.30	5912.09	-379.56	354.57	344.78	0.63	0.44	-0.44	MWD
6522.00	89.90	87.30	5912.25	-377.40	400.52	390.77	0.43	0.43	0.00	MWD
6565.00	90.00	87.00	5912.29	-375.26	443.46	433.76	0.74	0.23	-0.70	MWD
6607.00	90.70	87.00	5912.03	-373.06	485.40	475.74	1.67	1.67	0.00	MWD
6650.00	90.70	86.30	5911.51	-370.55	528.33	518.71	1.63	0.00	-1.63	MWD
6692.00	90.20	87.90	5911.18	-368.42	570.27	560.70	3.99	-1.19	3.81	MWD
6735.00	90.00	88.00	5911.10	-366.88	613.24	603.70	0.52	-0.47	0.23	MWD
6777.00	90.20	89.60	5911.03	-366.00	655.23	645.69	3.84	0.48	3.81	MWD
6820.00	90.60	90.00	5910.73	-365.85	698.23	688.68	1.32	0.93	0.93	MWD
6862.00	91.00	89.60	5910.14	-365.71	740.23	730.67	1.35	0.95	-0.95	MWD
6905.00	90.70	90.00	5909.51	-365.56	783.22	773.65	1.16	-0.70	0.93	MWD
6947.00	91.30	90.00	5908.77	-365.56	825.21	815.63	1.43	1.43	0.00	MWD
6990.00	90.40	90.00	5908.13	-365.56	868.21	858.61	2.09	-2.09	0.00	MWD
7032.00	89.30	89.30	5908.24	-365.30	910.21	900.60	3.10	-2.62	-1.67	MWD
7075.00	89.70	89.10	5908.62	-364.70	953.20	943.60	1.04	0.93	-0.47	MWD
7117.00	89.60	89.30	5908.88	-364.11	995.20	985.60	0.53	-0.24	0.48	MWD
7160.00	90.60	89.10	5908.80	-363.51	1038.19	1028.59	2.37	2.33	-0.47	MWD
7203.00	90.70	88.70	5908.31	-362.69	1081.18	1071.59	0.96	0.23	-0.93	MWD
7245.00	91.50	88.70	5907.51	-361.74	1123.16	1113.58	1.90	1.90	0.00	MWD
7288.00	91.30	88.40	5906.46	-360.65	1166.14	1156.57	0.84	-0.47	-0.70	MWD
7330.00	91.50	88.00	5905.43	-359.33	1208.10	1198.56	1.06	0.48	-0.95	MWD
7373.00	92.90	88.40	5903.78	-357.98	1251.05	1241.52	3.39	3.26	0.93	MWD
7415.00	94.40	87.70	5901.11	-356.55	1292.94	1283.43	3.94	3.57	-1.67	MWD
7457.00	94.70	87.30	5897.77	-354.73	1334.77	1325.29	1.19	0.71	-0.95	MWD
7499.00	94.90	86.60	5894.26	-352.50	1376.56	1367.13	1.73	0.48	-1.67	MWD
7541.00	94.40	88.20	5890.85	-350.60	1418.38	1408.98	3.98	-1.19	3.81	MWD
7584.00	94.60	88.00	5887.48	-349.18	1461.22	1451.85	0.66	0.47	-0.47	MWD
7625.00	94.60	87.50	5884.19	-347.58	1502.06	1492.71	1.22	0.00	-1.22	MWD
7668.00	93.90	88.70	5881.01	-346.15	1544.91	1535.59	3.22	-1.63	2.79	MWD
7710.00	94.10	88.60	5878.08	-345.17	1586.80	1577.49	0.53	0.48	-0.24	MWD
7753.00	94.10	87.90	5875.00	-343.86	1629.67	1620.38	1.62	0.00	-1.63	MWD
7795.00	94.10	87.30	5872.00	-342.10	1671.52	1662.27	1.42	0.00	-1.43	MWD
7838.00	94.70	89.30	5868.70	-340.83	1714.38	1705.14	4.84	1.40	4.65	MWD
7880.00	94.60	89.30	5865.29	-340.32	1756.23	1746.99	0.24	-0.24	0.00	MWD
7923.00	94.10	90.50	5862.03	-340.25	1799.11	1789.86	3.02	-1.16	2.79	MWD
7965.00	94.40	90.50	5858.92	-340.61	1840.99	1831.72	0.71	0.71	0.00	MWD
8008.00	94.40	89.30	5855.62	-340.54	1883.87	1874.58	2.78	0.00	-2.79	MWD
8050.00	94.60	88.20	5852.33	-339.62	1925.73	1916.45	2.65	0.48	-2.62	MWD
8093.00	93.40	89.80	5849.33	-338.87	1968.61	1959.34	4.64	-2.79	3.72	MWD
8135.00	93.80	89.80	5846.69	-338.73	2010.53	2001.25	0.95	0.95	0.00	MWD

# Precision Directional Services, Inc.

## Survey Report

<b>Company:</b> CARRIZO OIL & GAS, INC. <b>Field:</b> Niobrara CONZ'83 <b>Site:</b> Bringleson Ranch 8-20-9-58 <b>Well:</b> 8-20-9-58 <b>Wellpath:</b> Original Hole	<b>Date:</b> 03/19/2014 <b>Co-ordinate(NE) Reference:</b> Well: 8-20-9-58, Grid North <b>Vertical (TVD) Reference:</b> 4919'GL+17"KB 4936.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,88.54Azi) <b>Survey Calculation Method:</b> Minimum Curvature	<b>Time:</b> 09:00:07 <b>Page:</b> 4 <b>Db:</b> Adapti
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### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8178.00	92.70	91.40	5844.25	-339.18	2053.45	2044.15	4.51	-2.56	3.72	MWD
8220.00	90.90	92.40	5842.93	-340.57	2095.41	2086.05	4.90	-4.29	2.38	MWD
8263.00	91.20	91.70	5842.14	-342.11	2138.37	2128.96	1.77	0.70	-1.63	MWD
8305.00	91.80	91.40	5841.04	-343.24	2180.34	2170.89	1.60	1.43	-0.71	MWD
8347.00	89.60	90.00	5840.53	-343.76	2222.33	2212.85	6.21	-5.24	-3.33	MWD
8390.00	89.70	90.20	5840.79	-343.83	2265.33	2255.84	0.52	0.23	0.47	MWD
8432.00	90.30	90.20	5840.79	-343.98	2307.33	2297.82	1.43	1.43	0.00	MWD
8475.00	90.50	89.80	5840.49	-343.98	2350.33	2340.80	1.04	0.47	-0.93	MWD
8517.00	90.60	89.30	5840.09	-343.65	2392.33	2382.80	1.21	0.24	-1.19	MWD
8560.00	90.00	90.00	5839.87	-343.39	2435.33	2425.79	2.14	-1.40	1.63	MWD
8602.00	90.20	90.00	5839.79	-343.39	2477.33	2467.77	0.48	0.48	0.00	MWD
8645.00	91.80	90.20	5839.04	-343.46	2520.32	2510.75	3.75	3.72	0.47	MWD
8687.00	92.60	90.00	5837.43	-343.53	2562.29	2552.70	1.96	1.90	-0.48	MWD
8730.00	92.80	89.80	5835.40	-343.46	2605.24	2595.64	0.66	0.47	-0.47	MWD
8773.00	92.30	90.00	5833.49	-343.38	2648.20	2638.59	1.25	-1.16	0.47	MWD
8815.00	92.30	89.80	5831.81	-343.31	2690.16	2680.54	0.48	0.00	-0.48	MWD
8857.00	92.10	89.10	5830.19	-342.91	2732.13	2722.50	1.73	-0.48	-1.67	MWD
8900.00	91.80	88.90	5828.73	-342.16	2775.10	2765.48	0.84	-0.70	-0.47	MWD
8942.00	91.10	88.70	5827.67	-341.28	2817.07	2807.46	1.73	-1.67	-0.48	MWD
8984.00	91.20	88.90	5826.82	-340.40	2859.06	2849.46	0.53	0.24	0.48	MWD
9027.00	91.50	88.70	5825.81	-339.50	2902.04	2892.44	0.84	0.70	-0.47	MWD
9069.00	91.90	87.70	5824.56	-338.18	2944.00	2934.42	2.56	0.95	-2.38	MWD
9112.00	92.60	85.60	5822.88	-335.67	2986.89	2977.36	5.14	1.63	-4.88	MWD
9155.00	91.00	86.30	5821.53	-332.63	3029.76	3020.30	4.06	-3.72	1.63	MWD
9197.00	91.00	86.50	5820.79	-330.00	3071.67	3062.26	0.48	0.00	0.48	MWD
9240.00	91.60	90.20	5819.82	-328.76	3114.63	3105.24	8.71	1.40	8.60	MWD
9282.00	91.90	91.00	5818.53	-329.20	3156.61	3147.20	2.03	0.71	1.90	MWD
9324.00	90.60	90.30	5817.62	-329.68	3198.59	3189.16	3.52	-3.10	-1.67	MWD
9367.00	90.60	90.70	5817.17	-330.05	3241.59	3232.13	0.93	0.00	0.93	MWD
9409.00	90.50	91.00	5816.76	-330.67	3283.58	3274.09	0.75	-0.24	0.71	MWD
9451.00	90.60	90.90	5816.36	-331.37	3325.58	3316.05	0.34	0.24	-0.24	MWD
9494.00	91.50	90.90	5815.57	-332.05	3368.56	3359.01	2.09	2.09	0.00	MWD
9536.00	91.60	90.90	5814.44	-332.71	3410.54	3400.96	0.24	0.24	0.00	MWD
9579.00	91.90	91.00	5813.12	-333.42	3453.52	3443.90	0.74	0.70	0.23	MWD
9622.00	91.20	89.80	5811.96	-333.72	3496.50	3486.86	3.23	-1.63	-2.79	MWD
9664.00	91.10	90.20	5811.12	-333.72	3538.49	3528.84	0.98	-0.24	0.95	MWD
9706.00	91.20	90.20	5810.28	-333.86	3580.48	3570.81	0.24	0.24	0.00	MWD
9749.00	91.40	90.30	5809.30	-334.05	3623.47	3613.78	0.52	0.47	0.23	MWD
9791.00	91.50	90.20	5808.24	-334.24	3665.46	3655.75	0.34	0.24	-0.24	MWD
9874.00	91.50	90.20	5806.06	-334.52	3748.43	3738.69	0.00	0.00	0.00	Project

### Annotation

MD ft	TVD ft	
5828.00	5736.17	300' Entry