

CAZA PETROLEUM, LLC
LENNOX 32 STATE #9H ST01
LEA COUNTY, NM

API#: 30-025-45307-01 Rlg: NABORS M
PathFinder Office Supervisor: ERIC STANLEY
PathFinder Field Engineers: MAGID IBRAHIM

PathFinder – a Schlumberger company

Survey Report

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.21.18.7324 N LON: 103.23.5.6819 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 834203.6000 Y: 494252.1000
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.20° EAST TO GRID
Vertical Section Plane: 185.22
Survey Vert. Reference: 22.00' Rotary Table To Ground
Altitude: 3539.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular (ft)	Offsets (ft)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
ORIGIN OF WELL AT SURFACE.										
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE SCHLUMBERGER MWD SURVEYS.										
159.00	0.17	219.64	159.00	159.00	0.19	0.18 S	0.15 W	0.24@	219.64	0.11
220.00	0.20	235.66	220.00	61.00	0.34	0.31 S	0.30 W	0.43@	223.56	0.10
308.00	0.13	276.43	308.00	88.00	0.43	0.39 S	0.52 W	0.65@	233.47	0.15
426.00	0.28	224.69	426.00	118.00	0.65	0.58 S	0.86 W	1.03@	236.09	0.19
486.00	0.28	240.68	486.00	60.00	0.85	0.75 S	1.09 W	1.32@	235.34	0.13
609.00	0.38	240.41	609.00	123.00	1.25	1.10 S	1.71 W	2.03@	237.15	0.08
668.00	0.39	221.46	667.99	59.00	1.53	1.35 S	2.01 W	2.42@	236.12	0.21
851.00	0.29	221.04	850.99	183.00	2.40	2.16 S	2.73 W	3.48@	231.54	0.05
942.00	0.32	204.14	941.99	91.00	2.83	2.57 S	2.98 W	3.94@	229.23	0.10
1034.00	0.28	208.95	1033.99	92.00	3.28	3.00 S	3.19 W	4.38@	226.78	0.05
1221.00	0.59	191.53	1220.98	187.00	4.65	4.34 S	3.61 W	5.65@	219.71	0.18
1315.00	0.72	196.08	1314.98	94.00	5.72	5.39 S	3.87 W	6.63@	215.68	0.15
1408.00	0.73	209.68	1407.97	93.00	6.83	6.46 S	4.32 W	7.78@	213.78	0.19
1503.00	0.64	200.47	1502.96	95.00	7.89	7.49 S	4.81 W	8.90@	212.72	0.15
1597.00	0.92	188.63	1596.95	94.00	9.15	8.72 S	5.11 W	10.11@	210.34	0.34
1630.00	0.97	199.39	1629.95	33.00	9.69	9.25 S	5.24 W	10.63@	209.52	0.56
1692.00	0.92	196.01	1691.94	62.00	10.68	10.22 S	5.55 W	11.63@	208.50	0.12
1787.00	0.96	203.38	1786.93	95.00	12.19	11.69 S	6.08 W	13.17@	207.47	0.13
1870.00	0.98	204.32	1869.92	83.00	13.52	12.97 S	6.64 W	14.57@	207.12	0.03
2072.00	0.67	208.17	2071.90	202.00	16.24	15.59 S	7.91 W	17.48@	206.92	0.16

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2167.00	0.20	195.43	2166.89	95.00	16.92	16.24 S	8.22 W	18.20@	206.85	0.50
2261.00	0.38	353.28	2260.89	94.00	16.77	16.08 S	8.30 W	18.10@	207.29	0.61
2355.00	0.39	349.58	2354.89	94.00	16.16	15.46 S	8.39 W	17.59@	208.50	0.03
2450.00	0.36	348.36	2449.89	95.00	15.56	14.85 S	8.51 W	17.12@	209.82	0.03
2544.00	0.44	333.94	2543.89	94.00	14.97	14.24 S	8.73 W	16.70@	211.52	0.14
2638.00	0.35	354.03	2637.88	94.00	14.38	13.63 S	8.92 W	16.29@	213.21	0.17
2732.00	0.51	358.81	2731.88	94.00	13.68	12.92 S	8.96 W	15.72@	214.73	0.17
2826.00	0.48	343.77	2825.88	94.00	12.90	12.13 S	9.08 W	15.15@	216.81	0.14
2920.00	0.34	346.84	2919.87	94.00	12.27	11.48 S	9.25 W	14.74@	218.87	0.15
3015.00	0.48	352.05	3014.87	95.00	11.62	10.81 S	9.37 W	14.30@	220.92	0.15
3109.00	0.52	356.10	3108.87	94.00	10.81	9.99 S	9.45 W	13.75@	223.41	0.06
3203.00	0.59	7.87	3202.86	94.00	9.91	9.09 S	9.41 W	13.09@	226.01	0.14
3297.00	0.59	20.29	3296.86	94.00	8.96	8.15 S	9.18 W	12.28@	228.39	0.14
3392.00	0.70	32.14	3391.85	95.00	7.97	7.20 S	8.70 W	11.30@	230.38	0.18
3487.00	0.73	39.68	3486.85	95.00	6.95	6.25 S	8.01 W	10.16@	232.04	0.10
3581.00	1.28	56.72	3580.83	94.00	5.80	5.21 S	6.75 W	8.52@	232.33	0.66
3676.00	1.37	50.10	3675.81	95.00	4.34	3.90 S	4.99 W	6.33@	231.99	0.19
3770.00	1.71	308.69	3769.78	94.00	2.77	2.30 S	5.22 W	5.71@	246.22	2.55
3865.00	4.00	304.21	3864.66	95.00	0.38	0.45 N	9.07 W	9.08@	272.83	2.42
3960.00	4.47	306.79	3959.40	95.00	-3.17	4.53 N	14.77 W	15.45@	287.04	0.53
4054.00	3.90	303.93	4053.15	94.00	-6.62	8.51 N	20.36 W	22.07@	292.67	0.65
4148.00	3.96	286.47	4146.93	94.00	-8.79	11.21 N	26.12 W	28.43@	293.23	1.27
4243.00	7.58	258.26	4241.45	95.00	-7.60	10.87 N	35.41 W	37.04@	287.06	4.73
4337.00	9.03	255.22	4334.47	94.00	-3.27	7.72 N	48.61 W	49.22@	279.03	1.61
4432.00	8.00	259.01	4428.42	95.00	1.13	4.56 N	62.31 W	62.48@	274.19	1.23

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4526.00	6.68	266.01	4521.65	94.00	3.83	2.93 N	74.19 W	74.25@	272.26	1.69
4622.00	6.05	267.35	4617.06	96.00	5.42	2.31 N	84.81 W	84.84@	271.56	0.67
4791.00	6.56	286.09	4785.05	169.00	4.81	4.57 N	102.99 W	103.09@	272.54	1.25
4903.00	6.84	286.88	4896.29	112.00	2.26	8.28 N	115.51 W	115.81@	274.10	0.26
4997.00	6.26	291.98	4989.67	94.00	-0.35	11.83 N	125.62 W	126.18@	275.38	0.87
5091.00	5.76	290.21	5083.15	94.00	-3.05	15.37 N	134.80 W	135.68@	276.51	0.57
5185.00	6.24	288.26	5176.64	94.00	-5.42	18.61 N	144.08 W	145.28@	277.36	0.56
5278.00	5.99	288.04	5269.11	93.00	-7.64	21.69 N	153.49 W	155.02@	278.04	0.27
5372.00	5.42	291.83	5362.65	94.00	-9.99	24.86 N	162.28 W	164.17@	278.71	0.73
5465.00	4.51	295.24	5455.30	93.00	-12.50	28.05 N	169.66 W	171.97@	279.39	1.03
5559.00	4.90	288.19	5548.98	94.00	-14.67	30.88 N	176.82 W	179.50@	279.91	0.74
5631.00	6.20	277.33	5620.64	72.00	-15.50	32.34 N	183.60 W	186.43@	279.99	2.31
5753.00	6.13	276.28	5741.94	122.00	-15.86	33.89 N	196.61 W	199.51@	279.78	0.11
5847.00	6.07	277.29	5835.40	94.00	-16.14	35.07 N	206.53 W	209.48@	279.64	0.13
5941.00	5.56	277.85	5928.92	94.00	-16.52	36.32 N	215.97 W	219.00@	279.55	0.55
6035.00	5.93	276.91	6022.45	94.00	-16.88	37.53 N	225.30 W	228.40@	279.46	0.41
6128.00	5.89	279.35	6114.95	93.00	-17.36	38.88 N	234.78 W	237.97@	279.40	0.27
6222.00	5.68	276.61	6208.48	94.00	-17.82	40.20 N	244.16 W	247.44@	279.35	0.37
6316.00	5.35	273.73	6302.04	94.00	-17.82	41.02 N	253.15 W	256.45@	279.20	0.46
6411.00	5.48	273.90	6396.62	95.00	-17.60	41.62 N	262.10 W	265.38@	279.02	0.14
6503.00	5.83	281.45	6488.17	92.00	-18.01	42.85 N	271.06 W	274.42@	278.98	0.89
6599.00	5.50	279.03	6583.70	96.00	-18.84	44.54 N	280.38 W	283.90@	279.03	0.42
6693.00	6.69	281.17	6677.17	94.00	-19.71	46.30 N	290.20 W	293.87@	279.07	1.29
6788.00	6.95	283.33	6771.50	95.00	-21.09	48.70 N	301.22 W	305.13@	279.18	0.38
6882.00	6.54	282.08	6864.84	94.00	-22.54	51.13 N	311.99 W	316.15@	279.31	0.46

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6977.00	6.23	281.83	6959.26	95.00	-23.78	53.32 N	322.33 W	326.71@	279.39	0.33
7072.00	5.68	280.68	7053.74	95.00	-24.82	55.25 N	331.99 W	336.56@	279.45	0.59
7166.00	5.55	280.71	7147.29	94.00	-25.69	56.96 N	341.03 W	345.75@	279.48	0.14
7260.00	5.14	282.99	7240.88	94.00	-26.70	58.75 N	349.60 W	354.50@	279.54	0.49
7354.00	5.47	282.41	7334.48	94.00	-27.83	60.66 N	358.08 W	363.18@	279.61	0.36
7449.00	5.86	286.26	7429.02	95.00	-29.32	62.99 N	367.16 W	372.52@	279.73	0.57
7543.00	5.86	283.29	7522.53	94.00	-30.92	65.43 N	376.43 W	382.08@	279.86	0.32
7639.00	5.50	286.55	7618.05	96.00	-32.51	67.87 N	385.61 W	391.54@	279.98	0.50
7732.00	4.69	285.51	7710.69	93.00	-34.06	70.16 N	393.55 W	399.75@	280.11	0.88
7827.00	5.51	280.88	7805.31	95.00	-35.21	72.06 N	401.77 W	408.18@	280.17	0.97
7920.00	6.76	281.15	7897.77	93.00	-36.21	73.96 N	411.52 W	418.12@	280.19	1.34
8014.00	5.95	273.31	7991.20	94.00	-36.62	75.31 N	421.82 W	428.49@	280.12	1.26
8106.00	5.95	274.92	8082.70	92.00	-36.44	75.99 N	431.33 W	437.97@	279.99	0.18
8201.00	5.53	276.88	8177.23	95.00	-36.54	76.97 N	440.78 W	447.45@	279.90	0.49
8295.00	5.52	277.62	8270.79	94.00	-36.86	78.11 N	449.76 W	456.49@	279.85	0.08
8389.00	6.64	275.96	8364.26	94.00	-37.12	79.27 N	459.64 W	466.43@	279.79	1.21
8484.00	7.59	274.05	8458.53	95.00	-37.07	80.28 N	471.36 W	478.15@	279.67	1.03
8578.00	6.83	272.33	8551.78	94.00	-36.66	80.95 N	483.14 W	489.88@	279.51	0.84
8673.00	5.95	273.43	8646.19	95.00	-36.22	81.47 N	493.70 W	500.38@	279.37	0.94
8768.00	5.50	276.06	8740.72	95.00	-36.13	82.25 N	503.14 W	509.82@	279.28	0.55
8863.00	3.89	272.18	8835.40	95.00	-36.03	82.85 N	510.89 W	517.57@	279.21	1.73
8957.00	3.24	265.48	8929.21	94.00	-35.41	82.76 N	516.73 W	523.31@	279.10	0.82
9021.00	3.11	261.16	8993.12	64.00	-34.68	82.36 N	520.24 W	526.72@	279.00	0.43
9095.00	2.93	221.80	9067.02	74.00	-32.68	80.64 N	523.49 W	529.66@	278.76	2.76
9126.00	6.87	192.31	9097.91	31.00	-30.20	78.23 N	524.41 W	530.22@	278.48	14.69

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9158.00	11.31	183.86	9129.50	32.00	-25.16	73.23 N	525.03 W	530.11@	277.94	14.45
9205.00	17.91	180.99	9174.95	47.00	-13.33	61.39 N	525.47 W	529.04@	276.66	14.12
9253.00	21.00	181.61	9220.21	48.00	2.62	45.41 N	525.84 W	527.79@	274.94	6.45
9300.00	24.07	184.07	9263.61	47.00	20.61	27.43 N	526.75 W	527.47@	272.98	6.83
9348.00	27.17	187.72	9306.89	48.00	41.35	6.80 N	528.92 W	528.96@	270.74	7.24
9396.00	30.68	186.41	9348.90	48.00	64.55	16.24 S	531.76 W	532.01@	268.25	7.43
9443.00	33.06	181.83	9388.82	47.00	89.34	40.97 S	533.51 W	535.08@	265.61	7.22
9491.00	35.63	181.15	9428.44	48.00	116.36	68.04 S	534.21 W	538.52@	262.74	5.41
9539.00	38.46	179.17	9466.75	48.00	145.16	96.95 S	534.27 W	543.00@	259.71	6.40
9584.00	42.03	178.23	9501.10	45.00	174.04	126.01 S	533.61 W	548.28@	256.71	8.05
9633.00	43.69	177.68	9537.01	49.00	207.10	159.32 S	532.41 W	555.74@	253.34	3.47
9680.00	44.79	177.37	9570.68	47.00	239.59	192.08 S	531.00 W	564.67@	250.11	2.39
9727.00	45.70	176.55	9603.78	47.00	272.62	225.41 S	529.22 W	575.23@	246.93	2.30
9772.00	49.23	176.34	9634.19	45.00	305.39	258.50 S	527.17 W	587.13@	243.88	7.85
9821.00	53.40	177.01	9664.81	49.00	343.20	296.67 S	524.96 W	602.99@	240.53	8.58
9868.00	56.68	176.47	9691.74	47.00	381.30	335.12 S	522.76 W	620.96@	237.34	7.04
9915.00	60.69	176.42	9716.16	47.00	420.97	375.19 S	520.27 W	641.45@	234.20	8.53
9962.00	62.64	177.34	9738.47	47.00	461.90	416.50 S	518.02 W	664.69@	231.20	4.49
10009.00	67.95	177.98	9758.11	47.00	504.21	459.14 S	516.29 W	690.92@	228.35	11.37
10057.00	71.77	178.42	9774.63	48.00	548.93	504.18 S	514.87 W	720.62@	225.60	8.01
10104.00	75.16	178.53	9788.01	47.00	593.67	549.21 S	513.67 W	751.99@	223.09	7.22
10152.00	79.93	178.49	9798.36	48.00	640.20	596.05 S	512.46 W	786.06@	220.69	9.94
10198.00	82.58	177.59	9805.35	46.00	685.31	641.49 S	510.90 W	820.08@	218.53	6.08
10246.00	83.27	177.73	9811.26	48.00	732.53	689.08 S	508.95 W	856.66@	216.45	1.47
10293.00	85.12	178.51	9816.01	47.00	778.93	735.81 S	507.42 W	893.81@	214.59	4.27

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10321.00	85.29	178.69	9818.35	28.00	806.64	763.71 S	506.74 W	916.53@ 213.57	0.88
10353.00	81.79	179.91	9821.95	32.00	838.27	795.50 S	506.35 W	942.98@ 212.48	11.57
10384.00	79.13	182.98	9827.09	31.00	868.76	826.05 S	507.12 W	969.29@ 211.55	13.00
10415.00	80.88	184.41	9832.47	31.00	899.28	856.51 S	509.09 W	996.39@ 210.73	7.25
10447.00	84.16	184.61	9836.64	32.00	931.00	888.14 S	511.58 W	1024.94@ 209.94	10.27
10478.00	86.53	184.55	9839.15	31.00	961.89	918.94 S	514.05 W	1052.94@ 209.22	7.65
10509.00	88.54	183.30	9840.49	31.00	992.85	949.83 S	516.17 W	1081.02@ 208.52	7.63
10560.00	89.10	181.69	9841.54	51.00	1043.79	1000.77 S	518.39 W	1127.06@ 207.38	3.34
10603.00	88.66	181.34	9842.38	43.00	1086.69	1043.75 S	519.52 W	1165.90@ 206.46	1.31
10690.00	90.11	182.19	9843.31	87.00	1173.52	1130.70 S	522.20 W	1245.46@ 204.79	1.93
10787.00	94.38	181.18	9839.51	97.00	1270.24	1227.56 S	525.05 W	1335.13@ 203.16	4.52
10880.00	94.49	180.66	9832.32	93.00	1362.70	1320.27 S	526.54 W	1421.39@ 201.74	0.57
10912.00	94.37	180.06	9829.85	32.00	1394.49	1352.17 S	526.74 W	1451.15@ 201.28	1.91
10943.00	93.76	180.02	9827.65	31.00	1425.28	1383.09 S	526.76 W	1480.01@ 200.85	1.97
10974.00	92.92	179.92	9825.85	31.00	1456.10	1414.04 S	526.75 W	1508.97@ 200.43	2.73
11005.00	93.08	179.98	9824.22	31.00	1486.93	1445.00 S	526.72 W	1538.00@ 200.03	0.55
11037.00	93.03	179.82	9822.52	32.00	1518.74	1476.95 S	526.67 W	1568.05@ 199.63	0.52
11068.00	92.02	180.00	9821.15	31.00	1549.58	1507.92 S	526.62 W	1597.23@ 199.25	3.31
11099.00	91.07	179.99	9820.32	31.00	1580.44	1538.91 S	526.61 W	1626.52@ 198.89	3.06
11130.00	91.12	179.93	9819.72	31.00	1611.30	1569.91 S	526.59 W	1655.87@ 198.54	0.25
11161.00	91.35	180.15	9819.06	31.00	1642.17	1600.90 S	526.61 W	1685.29@ 198.21	1.03
11192.00	91.63	180.30	9818.25	31.00	1673.04	1631.89 S	526.74 W	1714.79@ 197.89	1.03
11223.00	91.68	180.37	9817.36	31.00	1703.92	1662.87 S	526.92 W	1744.36@ 197.58	0.28
11254.00	91.74	180.47	9816.43	31.00	1734.79	1693.86 S	527.14 W	1773.99@ 197.29	0.38
11286.00	91.51	180.04	9815.52	32.00	1766.66	1725.85 S	527.29 W	1804.60@ 196.99	1.52

PathFinder – a Schlumberger company

Survey Report

CAZA PETROLEUM, LLC
 LENNOX 32 STATE #9H ST01
 LEA COUNTY, NM
 API#: 30-025-45307-01 Rig: NABORS M51

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
11317.00	91.46	179.60	9814.72	31.00	1797.51	1756.84 S	527.19 W	1834.23@	196.70	1.43
11348.00	91.29	179.56	9813.98	31.00	1828.35	1787.83 S	526.96 W	1863.87@	196.42	0.56
11380.00	90.50	178.44	9813.48	32.00	1860.16	1819.82 S	526.40 W	1894.42@	196.13	4.28
11411.00	90.34	178.19	9813.25	31.00	1890.94	1850.80 S	525.49 W	1923.96@	195.85	0.96
11442.00	90.28	178.22	9813.08	31.00	1921.70	1881.79 S	524.52 W	1953.52@	195.58	0.22
11473.00	90.11	178.30	9812.97	31.00	1952.47	1912.77 S	523.58 W	1983.14@	195.31	0.61
11505.00	90.06	178.46	9812.93	32.00	1984.25	1944.76 S	522.68 W	2013.77@	195.04	0.52
11536.00	90.22	178.50	9812.85	31.00	2015.03	1975.75 S	521.85 W	2043.50@	194.80	0.53
11581.00	90.11	178.50	9812.72	45.00	2059.72	2020.73 S	520.67 W	2086.73@	194.45	0.24
11629.00	90.45	178.23	9812.49	48.00	2107.38	2068.71 S	519.31 W	2132.90@	194.09	0.90
11676.00	91.01	177.78	9811.89	47.00	2154.00	2115.68 S	517.67 W	2178.09@	193.75	1.53
11724.00	90.84	177.79	9811.11	48.00	2201.59	2163.64 S	515.81 W	2224.27@	193.41	0.35
11772.00	91.46	177.45	9810.15	48.00	2249.16	2211.59 S	513.82 W	2270.49@	193.08	1.47
11819.00	92.18	177.52	9808.66	47.00	2295.71	2258.52 S	511.76 W	2315.77@	192.77	1.54
11867.00	92.24	177.85	9806.81	48.00	2343.26	2306.44 S	509.82 W	2362.12@	192.46	0.70
11913.00	91.07	177.27	9805.48	46.00	2388.83	2352.38 S	507.87 W	2406.58@	192.18	2.84
11960.00	90.50	177.23	9804.83	47.00	2435.37	2399.32 S	505.61 W	2452.02@	191.90	1.22
12008.00	89.05	177.51	9805.02	48.00	2482.92	2447.27 S	503.41 W	2498.51@	191.62	3.08
12103.00	89.05	178.45	9806.60	95.00	2577.15	2542.20 S	500.06 W	2590.91@	191.13	0.99
12197.00	88.88	179.97	9808.30	94.00	2670.61	2636.17 S	498.76 W	2682.94@	190.71	1.63
12292.00	88.88	181.09	9810.15	95.00	2765.28	2731.14 S	499.64 W	2776.47@	190.37	1.18
12386.00	89.16	181.06	9811.76	94.00	2859.02	2825.11 S	501.41 W	2869.26@	190.06	0.30
12479.00	88.26	181.00	9813.85	93.00	2951.74	2918.07 S	503.08 W	2961.12@	189.78	0.97
12574.00	88.77	180.83	9816.32	95.00	3046.44	3013.03 S	504.59 W	3054.99@	189.51	0.57
12668.00	90.00	181.14	9817.32	94.00	3140.18	3107.01 S	506.21 W	3147.98@	189.25	1.35

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
12761.00	90.73	181.23	9816.73	93.00	3232.95	3199.99 S	508.13 W	3240.08@ 189.02	0.79
12856.00	90.67	181.32	9815.57	95.00	3327.71	3294.96 S	510.25 W	3334.23@ 188.80	0.11
12951.00	90.45	181.29	9814.64	95.00	3422.49	3389.93 S	512.41 W	3428.44@ 188.60	0.23
13045.00	89.83	180.12	9814.41	94.00	3516.19	3483.92 S	513.57 W	3521.57@ 188.39	1.41
13138.00	88.77	179.62	9815.55	93.00	3608.78	3576.91 S	513.36 W	3613.56@ 188.17	1.26
13232.00	89.50	179.42	9816.97	94.00	3702.30	3670.89 S	512.57 W	3706.51@ 187.95	0.81
13326.00	88.99	179.16	9818.21	94.00	3795.79	3764.88 S	511.40 W	3799.45@ 187.74	0.61
13420.00	88.49	178.86	9820.28	94.00	3889.22	3858.84 S	509.78 W	3892.37@ 187.53	0.62
13514.00	89.66	177.98	9821.79	94.00	3982.54	3952.79 S	507.19 W	3985.20@ 187.31	1.56
13607.00	90.22	177.85	9821.89	93.00	4074.79	4045.73 S	503.80 W	4076.98@ 187.10	0.62
13701.00	91.51	178.35	9820.47	94.00	4168.05	4139.66 S	500.69 W	4169.83@ 186.90	1.47
13795.00	90.50	177.68	9818.82	94.00	4261.29	4233.59 S	497.43 W	4262.71@ 186.70	1.29
13889.00	88.93	176.41	9819.29	94.00	4354.33	4327.46 S	492.59 W	4355.41@ 186.49	2.15
13982.00	89.22	176.53	9820.79	93.00	4446.23	4420.27 S	486.86 W	4447.00@ 186.29	0.34
14076.00	88.88	176.71	9822.35	94.00	4539.16	4514.10 S	481.32 W	4539.68@ 186.09	0.41
14170.00	89.50	178.06	9823.68	94.00	4632.28	4607.99 S	477.03 W	4632.61@ 185.91	1.58
14264.00	89.44	178.61	9824.55	94.00	4725.59	4701.94 S	474.30 W	4725.80@ 185.76	0.59
14358.00	88.54	178.89	9826.20	94.00	4818.98	4795.90 S	472.25 W	4819.10@ 185.62	1.00
14453.00	88.71	179.53	9828.48	95.00	4913.43	4890.87 S	470.94 W	4913.49@ 185.50	0.70
14548.00	88.65	179.97	9830.67	95.00	5007.97	4985.84 S	470.53 W	5007.99@ 185.39	0.47
14642.00	87.65	180.91	9833.71	94.00	5101.59	5079.79 S	471.25 W	5101.60@ 185.30	1.46
14650.00	87.70	180.66	9834.03	8.00	5109.56	5087.78 S	471.36 W	5109.57@ 185.29	3.18
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 14735' MD.									
14735.00	87.70	180.66	9837.44	85.00	5194.23	5172.70 S	472.34 W	5194.23@ 185.22	0.00

This survey is correct to the best of my knowledge and is supported by actual field data.
 Steve Morris

