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PATHFINDER

An Operating Unit of Smith International, Inc.



DIRECTIONAL SURVEY REPORT

OXY PETROLEUM
CYPRESS 28 FEDERAL #1H
EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

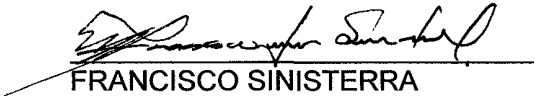
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) BRECK ENOCH
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 09/13/09 TO 09/28/09
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

OXY PETROLEUM
CYPRESS 28 FEDERAL #1H
EDDY COUNTY, NM
RIG: H & P 370

9. SURVEY CERTIFIED FROM: 508 TO 10197 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 3192.31 FEET ON A BEARING OF 83.85 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10275.22 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

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Tie-in Date: 09/13/2009
Date Completed: 09/28/2009

OXY USA WTP LP
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Rig:H&P 370

PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:KIEL CRABTREE
CRUZ GUTIERREZ

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.16.9.7045 N LON:103.59.47.4140 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 604109.2000 Y: 461875.1000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.80° EAST TO GRID
Vertical Section Plane: 83.79
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude:3004.50' Ground To MSL

Measured Depth	10275.22	(feet)
Inclination	89.78	(deg)
Azimuth	84.72	(deg)
True Vertical Depth	7742.66	(feet)
Vertical Section	3192.30	(feet)
Survey X cord	607283.15	(feet)
Survey Y cord	462216.91	(feet)
Survey Lat	32.27027416 N	(deg)
Survey Lon	103.98623162 W	(deg)
Rectangular Corr. N/S	341.81 N	(feet)
Rectangular Corr. E/W	3173.95 E	(feet)
Closure Distance	3192.31	(feet)
Direction of Closure	83.85	(deg)
Dogleg Severity	0.00	(deg/100ft)

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 Total Magnetic Correction: 7.80° EAST TO GRID
 Vertical Section Plane: 83.79
 Survey Vert. Reference: 25.00' Rotary Table To Ground
 Altitude:3004.50' Ground To MSL

Survey Calculations by PathCalc v1.97 using Minimum Curvature

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)	
ASSUMING VERTICAL HOLE @400' MD.										
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00@ 0.00	0.00	
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
508.00	0.53	218.84	508.00	108.00	-0.35	0.39 S	0.31 W	0.50@ 218.84	0.49	
643.00	0.44	214.35	642.99	135.00	-1.13	1.30 S	1.00 W	1.64@ 217.42	0.07	
829.00	0.35	218.22	828.99	186.00	-1.99	2.34 S	1.75 W	2.92@ 216.83	0.05	
1020.00	0.26	228.24	1019.99	191.00	-2.76	3.09 S	2.44 W	3.93@ 218.28	0.05	
1207.00	0.26	243.09	1206.98	187.00	-3.50	3.56 S	3.13 W	4.74@ 221.32	0.04	
1386.00	0.26	5.44	1385.98	179.00	-3.80	3.34 S	3.45 W	4.81@ 225.96	0.25	
1497.00	0.26	36.64	1496.98	111.00	-3.57	2.89 S	3.28 W	4.37@ 228.64	0.13	
1588.00	0.44	41.30	1587.98	91.00	-3.18	2.46 S	2.93 W	3.82@ 229.96	0.20	
1684.00	0.79	30.40	1683.98	96.00	-2.51	1.61 S	2.35 W	2.85@ 235.54	0.38	
1780.00	0.70	44.81	1779.97	96.00	-1.66	0.62 S	1.60 W	1.72@ 248.67	0.22	
1875.00	1.41	39.80	1874.95	95.00	-0.37	0.68 N	0.44 W	0.82@ 327.11	0.75	
1972.00	1.67	47.36	1971.92	97.00	1.63	2.56 N	1.36 E	2.90@ 28.00	0.34	
2067.00	1.76	52.19	2066.87	95.00	3.99	4.39 N	3.53 E	5.64@ 38.81	0.18	
2163.00	2.02	63.36	2162.82	96.00	6.83	6.05 N	6.21 E	8.67@ 45.72	0.47	
2254.00	2.46	71.27	2253.75	91.00	10.24	7.40 N	9.49 E	12.04@ 52.06	0.59	
2451.00	2.90	65.29	2450.54	197.00	19.09	10.84 N	18.02 E	21.03@ 58.97	0.26	
2545.00	2.37	67.58	2544.44	94.00	23.21	12.58 N	21.98 E	25.32@ 60.22	0.57	
2641.00	1.85	79.79	2640.37	96.00	26.66	13.61 N	25.34 E	28.76@ 61.76	0.71	
2737.00	1.41	90.34	2736.33	96.00	29.38	13.88 N	28.05 E	31.29@ 63.68	0.55	
2833.00	1.23	85.86	2832.31	96.00	31.59	13.94 N	30.25 E	33.31@ 65.26	0.22	
2895.00	1.41	86.91	2894.29	62.00	33.01	14.03 N	31.68 E	34.65@ 66.11	0.29	

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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)
3021.00	1.06	80.63	3020.26	126.00	35.72	14.31 N	34.38 E	37.24@	67.41	0.30
3120.00	0.97	82.17	3119.25	99.00	37.48	14.57 N	36.11 E	38.94@	68.03	0.09
3220.00	0.97	90.38	3219.23	100.00	39.16	14.68 N	37.80 E	40.55@	68.78	0.14
3316.00	0.88	83.08	3315.22	96.00	40.71	14.76 N	39.34 E	42.02@	69.43	0.15
3412.00	0.70	96.86	3411.21	96.00	42.02	14.78 N	40.65 E	43.26@	70.02	0.27
3507.00	0.70	89.29	3506.20	95.00	43.16	14.72 N	41.81 E	44.33@	70.61	0.10
3603.00	0.97	95.28	3602.19	96.00	44.54	14.65 N	43.21 E	45.62@	71.27	0.30
3699.00	0.97	89.05	3698.18	96.00	46.14	14.59 N	44.83 E	47.14@	71.97	0.11
3799.00	0.62	85.56	3798.17	100.00	47.53	14.65 N	46.21 E	48.48@	72.42	0.35
3886.00	0.53	84.58	3885.16	87.00	48.40	14.72 N	47.08 E	49.33@	72.64	0.10
3982.00	0.53	86.01	3981.16	96.00	49.29	14.79 N	47.97 E	50.20@	72.86	0.01
4078.00	0.35	100.04	4077.16	96.00	50.01	14.77 N	48.70 E	50.89@	73.13	0.22
4173.00	0.53	92.04	4172.15	95.00	50.73	14.71 N	49.43 E	51.57@	73.43	0.20
4268.00	0.53	104.04	4267.15	95.00	51.57	14.58 N	50.29 E	52.36@	73.83	0.12
4368.00	0.44	97.77	4367.15	100.00	52.38	14.42 N	51.12 E	53.11@	74.25	0.10
4460.00	0.44	136.28	4459.14	92.00	52.94	14.12 N	51.71 E	53.61@	74.73	0.32
4555.00	0.35	147.83	4554.14	95.00	53.29	13.61 N	52.12 E	53.87@	75.37	0.13
4650.00	0.44	158.57	4649.14	95.00	53.51	13.02 N	52.41 E	54.00@	76.05	0.12
4746.00	0.35	159.74	4745.14	96.00	53.68	12.40 N	52.64 E	54.09@	76.74	0.09
4842.00	0.44	164.16	4841.14	96.00	53.81	11.77 N	52.85 E	54.14@	77.44	0.10
4939.00	0.53	174.72	4938.13	97.00	53.87	10.97 N	52.99 E	54.11@	78.30	0.13
5035.00	0.79	178.59	5034.13	96.00	53.80	9.87 N	53.05 E	53.96@	79.46	0.27
5129.00	1.06	205.41	5128.11	94.00	53.29	8.43 N	52.69 E	53.36@	80.91	0.54
5224.00	1.32	203.36	5223.09	95.00	52.29	6.63 N	51.88 E	52.30@	82.71	0.28
5320.00	1.23	218.14	5319.07	96.00	51.03	4.81 N	50.80 E	51.03@	84.59	0.35
5415.00	0.97	226.83	5414.05	95.00	49.67	3.46 N	49.59 E	49.71@	86.01	0.32
5510.00	1.06	244.31	5509.04	95.00	48.20	2.53 N	48.21 E	48.28@	87.00	0.34

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5541.00	1.23	234.41	5540.03	31.00	47.64	2.21 N	47.68 E	47.73@	87.35	0.84
5572.00	1.14	230.13	5571.02	31.00	47.09	1.82 N	47.17 E	47.21@	87.79	0.41
5636.00	0.62	262.74	5635.02	64.00	46.22	1.36 N	46.34 E	46.36@	88.31	1.10
5668.00	0.53	289.74	5667.02	32.00	45.91	1.39 N	46.03 E	46.05@	88.27	0.88
5732.00	0.70	332.28	5731.01	64.00	45.50	1.84 N	45.57 E	45.61@	87.69	0.74
5828.00	0.97	356.85	5827.00	96.00	45.33	3.17 N	45.25 E	45.36@	85.99	0.46
5924.00	0.70	359.12	5922.99	96.00	45.43	4.57 N	45.20 E	45.43@	84.23	0.28
6019.00	0.53	14.51	6017.99	95.00	45.64	5.57 N	45.30 E	45.64@	82.99	0.25
6114.00	0.35	27.27	6112.98	95.00	45.95	6.26 N	45.54 E	45.97@	82.18	0.21
6210.00	0.97	10.84	6208.98	96.00	46.35	7.31 N	45.83 E	46.41@	80.93	0.67
6301.00	1.32	37.49	6299.96	91.00	47.30	8.90 N	46.61 E	47.46@	79.19	0.69
6337.00	2.90	67.99	6335.93	36.00	48.47	9.57 N	47.71 E	48.66@	78.65	5.24
6368.00	4.75	79.15	6366.86	31.00	50.50	10.11 N	49.70 E	50.72@	78.50	6.41
6396.00	6.33	80.74	6394.73	28.00	53.20	10.58 N	52.36 E	53.42@	78.58	5.67
6430.00	8.44	84.09	6428.45	34.00	57.56	11.13 N	56.69 E	57.77@	78.89	6.33
6489.00	12.22	86.26	6486.48	59.00	68.14	11.99 N	67.23 E	68.29@	79.89	6.44
6555.00	16.09	87.74	6550.47	66.00	84.24	12.80 N	83.35 E	84.33@	81.27	5.89
6585.00	17.59	86.87	6579.18	30.00	92.92	13.22 N	92.03 E	92.97@	81.83	5.07
6651.00	21.37	84.17	6641.39	66.00	114.91	14.98 N	113.96 E	114.94@	82.51	5.89
6681.00	22.07	84.23	6669.26	30.00	126.01	16.10 N	125.00 E	126.04@	82.66	2.33
6776.00	19.79	84.77	6757.99	95.00	159.94	19.36 N	158.78 E	159.96@	83.05	2.41
6812.00	18.55	84.72	6791.99	36.00	171.76	20.45 N	170.55 E	171.77@	83.16	3.44
6844.00	18.11	84.50	6822.37	32.00	181.83	21.39 N	180.57 E	181.83@	83.24	1.39
6872.00	19.26	84.86	6848.89	28.00	190.79	22.22 N	189.50 E	190.80@	83.31	4.13
6906.00	20.93	84.81	6880.82	34.00	202.47	23.27 N	201.14 E	202.48@	83.40	4.91
6938.00	21.54	84.66	6910.65	32.00	214.06	24.34 N	212.68 E	214.07@	83.47	1.91
6967.00	21.02	84.25	6937.67	29.00	224.59	25.36 N	223.15 E	224.59@	83.52	1.87

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7003.00	21.81	83.88	6971.18	36.00	237.73	26.71 N	236.23 E	237.73@	83.55	2.23
7035.00	23.13	82.13	7000.75	32.00	249.96	28.21 N	248.36 E	249.96@	83.52	4.62
7063.00	23.48	80.40	7026.47	28.00	261.02	29.89 N	259.31 E	261.03@	83.42	2.75
7095.00	23.83	80.89	7055.78	32.00	273.84	31.98 N	271.98 E	273.85@	83.29	1.25
7131.00	24.80	83.92	7088.59	36.00	288.66	33.93 N	286.67 E	288.67@	83.25	4.39
7158.00	25.94	86.62	7112.98	27.00	300.22	34.88 N	298.20 E	300.23@	83.33	6.01
7192.00	27.00	89.45	7143.42	34.00	315.33	35.39 N	313.34 E	315.33@	83.56	4.85
7224.00	28.58	89.78	7171.73	32.00	330.17	35.49 N	328.26 E	330.17@	83.83	4.96
7254.00	30.60	90.02	7197.82	30.00	344.90	35.52 N	343.07 E	344.90@	84.09	6.74
7260.00	30.86	89.56	7202.97	6.00	347.95	35.53 N	346.14 E	347.95@	84.14	5.84
7292.00	32.54	89.48	7230.20	32.00	364.68	35.67 N	362.95 E	364.70@	84.39	5.25
7320.00	34.21	89.44	7253.58	28.00	380.00	35.81 N	378.35 E	380.04@	84.59	5.96
7356.00	37.11	87.40	7282.83	36.00	400.92	36.40 N	399.33 E	400.98@	84.79	8.71
7388.00	39.83	87.11	7307.88	32.00	420.79	37.36 N	419.21 E	420.87@	84.91	8.52
7416.00	41.59	85.76	7329.10	28.00	439.03	38.50 N	437.43 E	439.12@	84.97	7.03
7450.00	44.41	84.74	7353.97	34.00	462.21	40.42 N	460.54 E	462.31@	84.98	8.54
7482.00	46.69	85.36	7376.38	32.00	485.04	42.39 N	483.29 E	485.15@	84.99	7.26
7512.00	48.45	84.75	7396.61	30.00	507.18	44.30 N	505.35 E	507.29@	84.99	6.06
7546.00	50.21	85.53	7418.77	34.00	532.96	46.49 N	531.05 E	533.08@	85.00	5.46
7578.00	52.23	85.66	7438.81	32.00	557.89	48.40 N	555.92 E	558.02@	85.02	6.32
7607.00	53.38	85.55	7456.34	29.00	580.98	50.17 N	578.95 E	581.12@	85.05	3.98
7643.00	53.20	85.57	7477.86	36.00	609.83	52.41 N	607.73 E	609.98@	85.07	0.50
7674.00	54.17	83.92	7496.22	31.00	634.80	54.70 N	632.60 E	634.96@	85.06	5.31
7701.00	55.05	84.20	7511.86	27.00	656.81	56.97 N	654.49 E	656.97@	85.03	3.37
7737.00	57.60	82.94	7531.82	36.00	686.77	60.33 N	684.26 E	686.91@	84.96	7.66
7768.00	59.44	82.34	7548.01	31.00	713.20	63.72 N	710.47 E	713.33@	84.88	6.16
7797.00	60.59	82.22	7562.50	29.00	738.31	67.09 N	735.37 E	738.42@	84.79	3.98

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7830.00	62.34	82.83	7578.27	33.00	767.29	70.86 N	764.11 E	767.39@	84.70	5.55
7862.00	64.37	82.83	7592.62	32.00	795.89	74.43 N	792.49 E	795.97@	84.63	6.34
7892.00	66.57	82.99	7605.07	30.00	823.17	77.80 N	819.57 E	823.25@	84.58	7.35
7928.00	69.03	82.80	7618.67	36.00	856.50	81.93 N	852.64 E	856.57@	84.51	6.85
7960.00	71.14	83.59	7629.57	32.00	886.58	85.49 N	882.51 E	886.64@	84.47	6.99
7988.00	72.19	83.88	7638.38	28.00	913.16	88.39 N	908.93 E	913.22@	84.45	3.88
8024.00	72.55	83.59	7649.28	36.00	947.47	92.13 N	943.04 E	947.53@	84.42	1.26
8055.00	74.48	83.83	7658.08	31.00	977.19	95.39 N	972.58 E	977.25@	84.40	6.27
8083.00	76.33	83.73	7665.13	28.00	1004.29	98.33 N	999.52 E	1004.34@	84.38	6.62
8119.00	78.70	83.55	7672.92	36.00	1039.43	102.22 N	1034.45 E	1039.49@	84.36	6.60
8151.00	79.40	83.70	7678.99	32.00	1070.85	105.71 N	1065.67 E	1070.90@	84.34	2.24
8179.00	80.64	83.70	7683.85	28.00	1098.43	108.73 N	1093.08 E	1098.47@	84.32	4.43
8215.00	81.95	83.73	7689.29	36.00	1134.01	112.63 N	1128.45 E	1134.06@	84.30	3.64
8245.00	82.66	83.93	7693.31	30.00	1163.74	115.82 N	1158.01 E	1163.79@	84.29	2.46
8275.00	83.10	84.24	7697.03	30.00	1193.51	118.89 N	1187.62 E	1193.55@	84.28	1.79
8309.00	84.06	84.26	7700.83	34.00	1227.30	122.28 N	1221.23 E	1227.34@	84.28	2.82
8341.00	85.12	84.83	7703.85	32.00	1259.15	125.30 N	1252.95 E	1259.20@	84.29	3.76
8371.00	85.47	84.88	7706.31	30.00	1289.04	127.99 N	1282.73 E	1289.09@	84.30	1.18
8404.00	86.88	84.40	7708.51	33.00	1321.96	131.06 N	1315.51 E	1322.02@	84.31	4.51
8436.00	88.02	84.51	7709.93	32.00	1353.93	134.15 N	1347.32 E	1353.99@	84.31	3.58
8466.00	88.72	84.53	7710.79	30.00	1383.92	137.01 N	1377.18 E	1383.97@	84.32	2.33
8500.00	88.55	83.62	7711.60	34.00	1417.91	140.52 N	1410.98 E	1417.96@	84.31	2.72
8532.00	88.64	82.90	7712.38	32.00	1449.89	144.28 N	1442.75 E	1449.95@	84.29	2.27
8562.00	88.81	81.66	7713.05	30.00	1479.88	148.31 N	1472.47 E	1479.92@	84.25	4.17
8658.00	89.43	83.17	7714.52	96.00	1575.83	160.98 N	1567.62 E	1575.86@	84.14	1.70
8725.00	90.31	82.89	7714.68	67.00	1642.83	169.11 N	1634.12 E	1642.85@	84.09	1.38
8752.00	89.52	83.00	7714.72	27.00	1669.82	172.42 N	1660.92 E	1669.84@	84.07	2.95

PathFinder Energy Services, Inc.

Survey Report

OXY USA WTP LP
CYPRESS 28 FEDERAL #1H
EDDY COUNTY, NEW MEXICO
RIG:H&P 370

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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)
8818.00	89.60	82.69	7715.22	66.00	1735.81	180.64 N	1726.40 E	1735.83@	84.03	0.49
8846.00	88.81	82.57	7715.61	28.00	1763.80	184.23 N	1754.17 E	1763.82@	84.00	2.85
8942.00	89.69	82.88	7716.87	96.00	1859.78	196.39 N	1849.39 E	1859.78@	83.94	0.97
9037.00	89.16	83.77	7717.82	95.00	1954.77	207.43 N	1943.74 E	1954.77@	83.91	1.09
9103.00	89.69	83.70	7718.48	66.00	2020.77	214.63 N	2009.34 E	2020.77@	83.90	0.81
9133.00	87.67	83.79	7719.18	30.00	2050.76	217.90 N	2039.15 E	2050.76@	83.90	6.74
9166.00	87.85	83.65	7720.46	33.00	2083.73	221.51 N	2071.93 E	2083.73@	83.90	0.69
9198.00	86.88	83.15	7721.94	32.00	2115.70	225.18 N	2103.68 E	2115.70@	83.89	3.41
9228.00	87.14	83.27	7723.50	30.00	2145.65	228.72 N	2133.43 E	2145.66@	83.88	0.95
9262.00	87.85	83.34	7724.99	34.00	2179.62	232.68 N	2167.17 E	2179.62@	83.87	2.10
9294.00	86.97	83.08	7726.43	32.00	2211.58	236.46 N	2198.91 E	2211.59@	83.86	2.87
9324.00	87.05	82.87	7728.00	30.00	2241.54	240.13 N	2228.64 E	2241.54@	83.85	0.75
9358.00	85.91	83.50	7730.09	34.00	2275.47	244.15 N	2262.34 E	2275.47@	83.84	3.83
9390.00	86.53	83.55	7732.19	32.00	2307.40	247.76 N	2294.06 E	2307.40@	83.84	1.94
9419.00	86.97	83.42	7733.84	29.00	2336.36	251.04 N	2322.83 E	2336.36@	83.83	1.58
9485.00	88.02	83.40	7736.72	66.00	2402.29	258.61 N	2388.33 E	2402.29@	83.82	1.59
9515.00	88.46	82.96	7737.64	30.00	2432.27	262.17 N	2418.10 E	2432.27@	83.81	2.07
9610.00	88.81	82.47	7739.91	95.00	2527.23	274.21 N	2512.31 E	2527.23@	83.77	0.63
9678.00	89.52	83.18	7740.90	68.00	2595.21	282.70 N	2579.77 E	2595.21@	83.75	1.48
9705.00	88.37	83.24	7741.40	27.00	2622.21	285.90 N	2606.58 E	2622.21@	83.74	4.27
9797.00	88.55	84.09	7743.87	92.00	2714.17	296.04 N	2697.98 E	2714.17@	83.74	0.94
9893.00	89.69	84.34	7745.34	96.00	2810.16	305.72 N	2793.48 E	2810.16@	83.75	1.22
9988.00	91.19	83.90	7744.61	95.00	2905.15	315.45 N	2887.97 E	2905.15@	83.77	1.65
10084.00	91.01	85.18	7742.77	96.00	3001.12	324.58 N	2983.52 E	3001.12@	83.79	1.35
10179.00	89.60	84.71	7742.26	95.00	3096.10	332.95 N	3078.14 E	3096.10@	83.83	1.56
10197.00	89.78	84.72	7742.36	18.00	3114.10	334.61 N	3096.07 E	3114.10@	83.83	1.00
STRAIGHT LINE PROJECTION AT THE BIT AT 10275' MD.										
10275.22	89.78	84.72	7742.66	78.22	3192.30	341.81 N	3173.95 E	3192.31@	83.85	0.00