

30-015-34171

Halliburton Sperry-Sun

BP America, Inc.
Horsetail Fed 9 #1 - MWD SurveyNew Mexico
Eddy County
Sec 9-T18-R27E
Data Source:

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OCD-ARTESIA

Meas.	Sub-Sea	Vert.	Local	Local	Global	Global	Vert.	Dogleg
0	0	0	0.00 N	0.00 E	639639.47 ↑	516960.82 ↑	0	0
70	0.25	353.7	0.15 N	0.02 W	639639.62 ↑	516960.80 ↑	-0.12	0.36
120	0.14	341.38	0.32 N	0.05 W	639639.79 ↑	516960.77 ↑	-0.27	0.23
220	0.18	347.74	0.59 N	0.12 W	639640.06 ↑	516960.70 ↑	-0.52	0.04
320	0.34	267	0.73 N	0.45 W	639640.19 ↑	516960.37 ↑	-0.84	0.36
420	0.44	272.45	0.73 N	1.13 W	639640.20 ↑	516959.69 ↑	-1.3	0.11
520	0.49	293.81	0.92 N	1.90 W	639640.38 ↑	516958.91 ↑	-1.96	0.18
620	0.63	293.57	1.31 N	2.80 W	639640.78 ↑	516958.02 ↑	-2.85	0.14
720	0.63	298.9	1.79 N	3.79 W	639641.26 ↑	516957.03 ↑	-3.88	0.06
820	0.78	316.03	2.55 N	4.74 W	639642.02 ↑	516956.08 ↑	-5.08	0.26
920	1.07	331.98	3.86 N	5.65 W	639643.33 ↑	516955.17 ↑	-6.66	0.39
1020	1.17	333.9	5.60 N	6.54 W	639645.07 ↑	516954.28 ↑	-8.55	0.11
1120	1.48	317.54	7.47 N	7.86 W	639646.94 ↑	516952.96 ↑	-10.82	0.49
1221	2.26	290.21	9.12 N	10.61 W	639648.59 ↑	516950.21 ↑	-13.89	1.15
1317	2.49	271.83	9.84 N	14.47 W	639649.31 ↑	516946.35 ↑	-17.02	0.82
1411	2.19	271.73	9.96 N	18.31 W	639649.43 ↑	516942.51 ↑	-19.7	0.32
1506	2.06	278.55	10.27 N	21.81 W	639649.74 ↑	516939.01 ↑	-22.28	0.3
1598	1.91	285.47	10.93 N	24.92 W	639650.40 ↑	516935.90 ↑	-24.87	0.31
1694	1.86	290.19	11.89 N	27.92 W	639651.36 ↑	516932.89 ↑	-27.6	0.17
1788	1.85	289.03	12.91 N	30.79 W	639652.38 ↑	516930.03 ↑	-30.29	0.04
1882	1.77	294.18	14.00 N	33.55 W	639653.47 ↑	516927.27 ↑	-32.95	0.19
1977	1.64	295.28	15.18 N	36.12 W	639654.65 ↑	516924.70 ↑	-35.56	0.14
2073	1.56	301	16.44 N	38.48 W	639655.91 ↑	516922.34 ↑	-38.08	0.19
2168	1.62	304.04	17.86 N	40.70 W	639657.33 ↑	516920.12 ↑	-40.62	0.11

2262	1.41	307.8	2261.29	2261.29	19.31 N	42.72 W	639658.78 ↑	516918.10 f	-43.05	0.25
2358	1.44	307.47	2357.26	2357.26	20.77 N	44.61 W	639660.24 ↑	516916.21 f	-45.4	0.03
2453	1.41	310.36	2452.23	2452.23	22.25 N	46.44 W	639661.72 ↑	516914.37 f	-47.74	0.08
2549	1.49	316.47	2548.2	2548.2	23.92 N	48.20 W	639663.39 ↑	516912.62 f	-50.16	0.18
2644	1.3	318.86	2643.17	2643.17	25.63 N	49.76 W	639665.10 ↑	516911.06 f	-52.47	0.21
2738	1.09	320.42	2737.15	2737.15	27.12 N	51.03 W	639666.59 ↑	516909.78 f	-54.43	0.23
2832	1	321.77	2831.13	2831.13	28.46 N	52.11 W	639667.93 ↑	516908.71 f	-56.14	0.1
2867	1.06	325.07	2866.13	2866.13	28.96 N	52.49 W	639668.43 ↑	516908.33 f	-56.77	0.24
2899	0.94	326.6	2898.12	2898.12	29.42 N	52.80 W	639668.89 ↑	516908.02 f	-57.32	0.38
2931	0.99	325.78	2930.12	2930.12	29.87 N	53.10 W	639669.34 ↑	516907.72 f	-57.85	0.16
2963	1	328.04	2962.11	2962.11	30.34 N	53.40 W	639669.81 ↑	516907.42 f	-58.4	0.13
2995	1.04	331.22	2994.11	2994.11	30.83 N	53.69 W	639670.30 ↑	516907.13 f	-58.96	0.22
3027	1.04	325.32	3026.1	3026.1	31.32 N	54.00 W	639670.79 ↑	516906.82 f	-59.53	0.33
3058	0.98	324.51	3057.1	3057.1	31.77 N	54.31 W	639671.24 ↑	516906.51 f	-60.07	0.2
3095	1.03	322.21	3094.09	3094.09	32.29 N	54.70 W	639671.76 ↑	516906.12 f	-60.71	0.17
3130	1.14	310.09	3129.09	3129.09	32.76 N	55.16 W	639672.23 ↑	516905.66 f	-61.37	0.73
3194	0.7	335.05	3193.08	3193.08	33.53 N	55.81 W	639673.00 ↑	516905.01 f	-62.38	0.91
3257	0.35	64.52	3256.08	3256.08	33.96 N	55.80 W	639673.43 ↑	516905.02 f	-62.69	1.24
3289	0.53	131.67	3288.07	3288.07	33.90 N	55.60 W	639673.37 ↑	516905.22 f	-62.51	1.59
3321	0.93	121.74	3320.07	3320.07	33.67 N	55.27 W	639673.14 ↑	516905.55 f	-62.12	1.31
3351	1.27	110.32	3350.07	3350.07	33.42 N	54.75 W	639672.89 ↑	516906.07 f	-61.59	1.34
3416	2.29	131.5	3415.03	3415.03	32.31 N	53.10 W	639671.78 ↑	516907.72 f	-59.66	1.84
3446	2.84	124.01	3445	3445	31.50 N	52.04 W	639670.97 ↑	516908.78 f	-58.34	2.14
3478	3.43	131.32	3476.96	3476.96	30.42 N	50.66 W	639669.89 ↑	516910.16 f	-56.62	2.22
3542	3.55	139.86	3540.84	3540.84	27.65 N	47.94 W	639667.11 ↑	516912.88 f	-52.73	0.83
3574	3.61	136.78	3572.78	3572.78	26.15 N	46.62 W	639665.62 ↑	516914.20 f	-50.74	0.63
3638	4.31	140.81	3636.62	3636.62	22.82 N	43.72 W	639662.29 ↑	516917.10 f	-46.32	1.18
3669	4.57	135.36	3667.53	3667.53	21.04 N	42.11 W	639660.51 ↑	516918.71 f	-43.92	1.6
3748	5.27	135.72	3746.24	3746.24	16.20 N	37.37 W	639655.67 ↑	516923.45 f	-37.15	0.89
3780	5.19	139.58	3778.11	3778.11	14.05 N	35.40 W	639653.52 ↑	516925.42 f	-34.24	1.13
3812	5.54	140.29	3809.97	3809.97	11.76 N	33.48 W	639651.23 ↑	516927.34 f	-31.25	1.11
3844	5.54	136.77	3841.82	3841.82	9.45 N	31.43 W	639648.91 ↑	516929.39 f	-28.16	1.06
3876	5.8	136.42	3873.66	3873.66	7.15 N	29.26 W	639646.62 ↑	516931.56 f	-25	0.82
3908	6.15	132.94	3905.49	3905.49	4.81 N	26.89 W	639644.28 ↑	516933.93 f	-21.67	1.57
3940	6.13	133.19	3937.3	3937.3	2.47 N	24.39 W	639641.94 ↑	516936.43 f	-18.26	0.1
3970	6.67	131.13	3967.11	3967.11	0.23 N	21.91 W	639639.70 ↑	516938.91 f	-14.93	1.96
4002	6.8	130.43	3998.89	3998.89	2.22 S	19.07 W	639637.25 ↑	516941.75 f	-11.21	0.48

4033	6.86	129.21	4029.67	4029.67	4.58 S	16.24 W	639634.89 ↑	516944.58 f	-7.56	0.51
4065	6.5	128.33	4061.46	4061.46	6.91 S	13.34 W	639632.56 ↑	516947.48 f	-3.88	1.17
4095	6.29	123.69	4091.27	4091.27	8.88 S	10.64 W	639630.59 ↑	516950.18 f	-0.61	1.86
4127	6.18	124.24	4123.08	4123.08	10.82 S	7.75 W	639628.65 ↑	516953.07 f	2.77	0.39
4159	6.05	124.15	4154.9	4154.9	12.73 S	4.93 W	639626.73 ↑	516955.89 f	6.09	0.41
4190	6.33	126.4	4185.72	4185.72	14.67 S	2.21 W	639624.80 ↑	516958.61 f	9.35	1.19
4222	6.15	127.45	4217.53	4217.53	16.75 S	0.57 E	639622.71 ↑	516961.39 f	12.77	0.67
4254	6.33	126.4	4249.34	4249.34	18.84 S	3.35 E	639620.62 ↑	516964.17 f	16.18	0.67
4286	6.42	127.81	4281.14	4281.14	20.99 S	6.19 E	639618.48 ↑	516967.01 f	19.68	0.56
4318	6.33	129.39	4312.94	4312.94	23.20 S	8.97 E	639616.27 ↑	516969.78 f	23.19	0.62
4350	6.33	127.1	4344.75	4344.75	25.39 S	11.74 E	639614.08 ↑	516972.55 f	26.67	0.79
4382	6.06	129.56	4376.56	4376.56	27.53 S	14.44 E	639611.94 ↑	516975.26 f	30.07	1.18
4414	5.98	133.61	4408.38	4408.38	29.75 S	16.95 E	639609.72 ↑	516977.77 f	33.41	1.35
4446	6.06	140.29	4440.21	4440.21	32.20 S	19.24 E	639607.27 ↑	516980.06 f	36.76	2.2
4478	6.33	144.15	4472.02	4472.02	34.93 S	21.35 E	639604.54 ↑	516982.17 f	40.2	1.55
4573	7.29	141.52	4566.35	4566.35	43.89 S	28.17 E	639595.57 ↑	516988.99 f	51.42	1.06
4669	7.26	137.13	4661.58	4661.58	53.11 S	36.09 E	639586.36 ↑	516996.91 f	63.56	0.58
4765	7.21	128.51	4756.82	4756.82	61.31 S	44.93 E	639578.16 ↑	517005.75 f	75.57	1.13
4860	8.51	128.57	4850.92	4850.92	69.40 S	55.09 E	639570.07 ↑	517015.91 f	88.4	1.37
4892	7.98	129.03	4882.59	4882.59	72.28 S	58.67 E	639567.19 ↑	517019.49 f	92.93	1.67
4988	7.6	130.62	4977.71	4977.71	80.60 S	68.66 E	639558.86 ↑	517029.48 f	105.82	0.46
5082	6.8	133.07	5070.96	5070.96	88.45 S	77.44 E	639551.02 ↑	517038.26 f	117.54	0.91
5114	6.23	132.67	5102.76	5102.76	90.92 S	80.11 E	639548.55 ↑	517040.92 f	121.16	1.79
5146	6.62	134.69	5134.56	5134.56	93.40 S	82.69 E	639546.07 ↑	517043.51 f	124.73	1.41
5178	6.99	134.61	5166.33	5166.33	96.06 S	85.39 E	639543.41 ↑	517046.21 f	128.52	1.16
5210	7.5	137.77	5198.08	5198.08	98.98 S	88.18 E	639540.49 ↑	517049.00 f	132.55	2.02
5242	7.77	140.19	5229.79	5229.79	102.18 S	90.97 E	639537.29 ↑	517051.79 f	136.8	1.31
5274	8.67	139.31	5261.46	5261.46	105.67 S	93.93 E	639533.80 ↑	517054.75 f	141.37	2.84
5306	9.38	138.82	5293.07	5293.07	109.47 S	97.22 E	639530.00 ↑	517058.04 f	146.39	2.23
5338	10.28	136.71	5324.6	5324.6	113.51 S	100.89 E	639525.96 ↑	517061.71 f	151.85	3.03
5401	11.46	137.28	5386.46	5386.46	122.20 S	108.99 E	639517.27 ↑	517069.81 f	163.73	1.88
5432	12.09	135.76	5416.81	5416.81	126.78 S	113.35 E	639512.68 ↑	517074.17 f	170.06	2.27
5463	12.64	134.14	5447.09	5447.09	131.47 S	118.05 E	639508.00 ↑	517078.86 f	176.69	2.1
5568	13.16	133.58	5539.7	5539.7	146.17 S	133.34 E	639493.30 ↑	517094.16 f	197.85	0.56
5621	12.52	134.06	5601.12	5601.12	155.86 S	143.44 E	639483.61 ↑	517104.26 f	211.82	1.03
5653	12.1	136.62	5632.38	5632.38	160.71 S	148.24 E	639478.76 ↑	517109.06 f	218.63	2.15
5684	11.24	138.36	5662.74	5662.74	165.33 S	152.48 E	639474.14 ↑	517113.30 f	224.9	3

5716	10.66	141.04	5694.16	5694.16	169.96 S	156.41 E	639469.51 ↑	517117.23 f	230.98	2.41
5748	10.2	141.77	5725.63	5725.63	174.49 S	160.02 E	639464.98 ↑	517120.84 f	236.76	1.5
5780	9.35	141.44	5757.17	5757.17	178.75 S	163.40 E	639460.72 ↑	517124.22 f	242.18	2.66
5844	8.56	141.11	5820.39	5820.39	186.52 S	169.63 E	639452.95 ↑	517130.45 f	252.12	1.24
5906	7.83	136.72	5881.75	5881.75	193.19 S	175.42 E	639446.28 ↑	517136.24 f	260.95	1.55
5970	7.03	133.43	5945.22	5945.22	199.05 S	181.25 E	639440.42 ↑	517142.07 f	269.21	1.42
6032	5.98	136.77	6006.82	6006.82	204.01 S	186.22 E	639435.46 ↑	517147.04 f	276.22	1.8
6096	5.27	133.96	6070.51	6070.51	208.48 S	190.62 E	639430.99 ↑	517151.44 f	282.49	1.19
6128	5.36	134.66	6102.37	6102.37	210.55 S	192.74 E	639428.92 ↑	517153.56 f	285.45	0.35
6160	4.22	136.07	6134.26	6134.26	212.45 S	194.62 E	639427.02 ↑	517155.44 f	288.12	3.58
6192	3.69	136.77	6166.18	6166.18	214.05 S	196.14 E	639425.42 ↑	517156.96 f	290.33	1.66
6224	3.08	139.76	6198.13	6198.13	215.46 S	197.40 E	639424.01 ↑	517158.22 f	292.22	1.98
6256	2.02	141.17	6230.09	6230.09	216.55 S	198.31 E	639422.92 ↑	517159.13 f	293.64	3.32
6320	0.53	92.12	6294.08	6294.08	217.44 S	199.32 E	639422.03 ↑	517160.14 f	294.97	2.69
6351	0.62	58.2	6325.08	6325.08	217.36 S	199.60 E	639422.11 ↑	517160.42 f	295.1	1.12
6383	0.35	69.27	6357.07	6357.07	217.23 S	199.84 E	639422.24 ↑	517160.66 f	295.17	0.89
6415	0.35	41.67	6389.07	6389.07	217.13 S	200.00 E	639422.34 ↑	517160.82 f	295.2	0.52
6447	0.18	328.72	6421.07	6421.07	217.01 S	200.04 E	639422.46 ↑	517160.86 f	295.14	1.07
6479	0.26	1.95	6453.07	6453.07	216.89 S	200.01 E	639422.58 ↑	517160.83 f	295.03	0.46
6520	0.44	38.78	6494.07	6494.07	216.68 S	200.11 E	639422.79 ↑	517160.93 f	294.94	0.68
6552	0.31	10.18	6526.07	6526.07	216.50 S	200.21 E	639422.97 ↑	517161.03 f	294.87	0.7
6584	0.25	349.86	6558.07	6558.07	216.34 S	200.21 E	639423.13 ↑	517161.03 f	294.76	0.36
6616	0.39	21.29	6590.07	6590.07	216.17 S	200.24 E	639423.30 ↑	517161.06 f	294.65	0.69
6648	0.38	60.39	6622.07	6622.07	216.02 S	200.37 E	639423.45 ↑	517161.19 f	294.63	0.81
6680	0.46	33.31	6654.07	6654.07	215.86 S	200.53 E	639423.61 ↑	517161.35 f	294.62	0.66
6710	0.52	43.13	6684.07	6684.07	215.66 S	200.69 E	639423.81 ↑	517161.51 f	294.58	0.34
6742	0.53	11.79	6716.07	6716.07	215.41 S	200.82 E	639424.06 ↑	517161.64 f	294.48	0.89
6774	0.62	34.82	6748.07	6748.07	215.12 S	200.95 E	639424.35 ↑	517161.77 f	294.36	0.77
6806	0.35	20.4	6780.06	6780.06	214.89 S	201.08 E	639424.58 ↑	517161.90 f	294.27	0.92
6837	0.63	47.17	6811.06	6811.06	214.68 S	201.24 E	639424.79 ↑	517162.06 f	294.23	1.14
6869	0.44	62.42	6843.06	6843.06	214.51 S	201.48 E	639424.96 ↑	517162.30 f	294.26	0.74
6901	0.62	54.68	6875.06	6875.06	214.35 S	201.73 E	639425.12 ↑	517162.55 f	294.31	0.6
6932	0.35	17.77	6906.06	6906.06	214.16 S	201.89 E	639425.31 ↑	517162.71 f	294.28	1.29
6962	0.35	18.29	6936.06	6936.06	213.99 S	201.95 E	639425.48 ↑	517162.77 f	294.19	0.01
6995	0.35	28.49	6969.06	6969.06	213.80 S	202.03 E	639425.66 ↑	517162.85 f	294.11	0.19
7027	0.53	47.53	7001.06	7001.06	213.62 S	202.19 E	639425.85 ↑	517163.01 f	294.08	0.72
7056	0.62	11.26	7030.06	7030.06	213.37 S	202.32 E	639426.10 ↑	517163.14 f	293.99	1.27

7088	0.7	37.28	7062.05	7062.05	213.05 S	202.47 E	639426.42 ↑	517163.29 f	293.85	0.96
7119	0.7	46.24	7093.05	7093.05	212.77 S	202.72 E	639426.70 ↑	517163.54 f	293.81	0.35
7151	0.62	53.1	7125.05	7125.05	212.53 S	203.00 E	639426.94 ↑	517163.82 f	293.82	0.35
7182	0.53	22.86	7156.05	7156.05	212.29 S	203.19 E	639427.17 ↑	517164.01 f	293.78	1.01
7214	0.62	57.32	7188.05	7188.05	212.06 S	203.39 E	639427.40 ↑	517164.21 f	293.74	1.1
7246	0.7	25.68	7220.04	7220.04	211.80 S	203.62 E	639427.67 ↑	517164.44 f	293.7	1.15
7278	0.53	62.06	7252.04	7252.04	211.55 S	203.84 E	639427.92 ↑	517164.66 f	293.66	1.3
7310	0.62	61.89	7284.04	7284.04	211.40 S	204.12 E	639428.07 ↑	517164.94 f	293.74	0.28
7342	0.44	21.81	7316.04	7316.04	211.20 S	204.32 E	639428.27 ↑	517165.14 f	293.73	1.25
7374	0.56	51.02	7348.04	7348.04	210.99 S	204.49 E	639428.48 ↑	517165.31 f	293.69	0.87
7405	0.44	65.93	7379.04	7379.04	210.85 S	204.71 E	639428.62 ↑	517165.53 f	293.73	0.57
7436	0.26	64.35	7410.04	7410.04	210.77 S	204.89 E	639428.70 ↑	517165.71 f	293.79	0.58
7466	0.26	1.95	7440.04	7440.04	210.67 S	204.95 E	639428.80 ↑	517165.77 f	293.76	0.9
7498	0.53	53.45	7472.04	7472.04	210.51 S	205.07 E	639428.96 ↑	517165.89 f	293.73	1.31
7530	0.26	34.29	7504.04	7504.04	210.36 S	205.23 E	639429.11 ↑	517166.05 f	293.72	0.93
7562	0.35	17.59	7536.03	7536.03	210.21 S	205.30 E	639429.26 ↑	517166.12 f	293.66	0.39
7593	0.53	65.93	7567.03	7567.03	210.06 S	205.46 E	639429.41 ↑	517166.28 f	293.66	1.28
7625	0.62	35.87	7599.03	7599.03	209.86 S	205.70 E	639429.61 ↑	517166.52 f	293.67	0.97
7657	0.26	81.4	7631.03	7631.03	209.71 S	205.87 E	639429.76 ↑	517166.69 f	293.67	1.49
7688	0.43	79.81	7662.03	7662.03	209.68 S	206.05 E	639429.79 ↑	517166.87 f	293.77	0.55
7720	0.18	62.06	7694.03	7694.03	209.63 S	206.22 E	639429.84 ↑	517167.04 f	293.85	0.83
7751	0.53	117.43	7725.03	7725.03	209.68 S	206.39 E	639429.79 ↑	517167.21 f	294	1.46
7783	0.44	170.87	7757.03	7757.03	209.86 S	206.54 E	639429.60 ↑	517167.36 f	294.24	1.39
7815	1.05	173.51	7789.03	7789.03	210.28 S	206.59 E	639429.19 ↑	517167.41 f	294.58	1.91
7846	2.11	193.2	7820.01	7820.01	211.12 S	206.49 E	639428.35 ↑	517167.31 f	295.13	3.79
7889	2.55	193.55	7862.98	7862.98	212.82 S	206.09 E	639426.65 ↑	517166.91 f	296.11	1.02
7921	2.2	191.09	7894.95	7894.95	214.11 S	205.80 E	639425.36 ↑	517166.62 f	296.88	1.14
7952	1.14	191.97	7925.94	7925.94	215.00 S	205.62 E	639424.47 ↑	517166.44 f	297.41	3.42
7984	0.35	299.72	7957.93	7957.93	215.26 S	205.47 E	639424.21 ↑	517166.29 f	297.51	4.03
8016	1.11	344.9	7989.93	7989.93	214.91 S	205.31 E	639424.56 ↑	517166.13 f	297.14	2.81
8048	1.44	351.26	8021.92	8021.92	214.21 S	205.17 E	639425.25 ↑	517165.99 f	296.53	1.12
8080	1.58	352.81	8053.91	8053.91	213.38 S	205.05 E	639426.09 ↑	517165.87 f	295.83	0.46
8112	1.41	331.54	8085.9	8085.9	212.60 S	204.81 E	639426.87 ↑	517165.63 f	295.09	1.8
8144	1.49	316.59	8117.89	8117.89	211.95 S	204.33 E	639427.52 ↑	517165.15 f	294.29	1.2
8175	1.67	305.34	8148.88	8148.88	211.39 S	203.69 E	639428.08 ↑	517164.51 f	293.45	1.15
8207	1.58	304.99	8180.87	8180.87	210.87 S	202.95 E	639428.60 ↑	517163.77 f	292.56	0.28
8239	1.49	310.97	8212.86	8212.86	210.34 S	202.27 E	639429.12 ↑	517163.09 f	291.72	0.57

8271	1.41	309.56	8244.85	8244.85	209.82 S	201.65 E	639429.65 ↑	517162.47 E	290.91	0.27
8302	1.32	309.56	8275.84	8275.84	209.35 S	201.08 E	639430.12 ↑	517161.90 E	290.18	0.29
8333	1.42	309.09	8306.83	8306.83	208.88 S	200.51 E	639430.59 ↑	517161.33 E	289.45	0.32
8365	1.49	307.1	8338.82	8338.82	208.38 S	199.87 E	639431.09 ↑	517160.69 E	288.65	0.27
8395	1.17	313.06	8368.81	8368.81	207.94 S	199.34 E	639431.53 ↑	517160.16 E	287.96	1.16
8427	1.23	313.08	8400.8	8400.8	207.48 S	198.85 E	639431.99 ↑	517159.67 E	287.29	0.19
8459	1.82	310.62	8432.79	8432.79	206.91 S	198.21 E	639432.56 ↑	517159.03 E	286.44	1.85
8491	2.09	318.58	8464.77	8464.77	206.14 S	197.44 E	639433.32 ↑	517158.26 E	285.36	1.19
8523	2.29	318	8496.75	8496.75	205.23 S	196.62 E	639434.24 ↑	517157.44 E	284.13	0.63
8555	2.46	323.8	8528.72	8528.72	204.20 S	195.79 E	639435.27 ↑	517156.61 E	282.81	0.92
8585	2.29	320.06	8558.7	8558.7	203.22 S	195.03 E	639436.25 ↑	517155.85 E	281.57	0.77
8617	2.33	323.75	8590.67	8590.67	202.21 S	194.23 E	639437.26 ↑	517155.05 E	280.29	0.48
8648	2.13	324.24	8621.65	8621.65	201.23 S	193.52 E	639438.24 ↑	517154.34 E	279.09	0.65
8679	2.11	321.69	8652.63	8652.63	200.32 S	192.83 E	639439.15 ↑	517153.65 E	277.95	0.31
8711	1.85	320.81	8684.61	8684.61	199.46 S	192.14 E	639440.01 ↑	517152.96 E	276.84	0.82
8742	1.93	319.93	8715.59	8715.59	198.67 S	191.49 E	639440.80 ↑	517152.31 E	275.82	0.27
8774	1.99	319	8747.57	8747.57	197.84 S	190.78 E	639441.63 ↑	517151.60 E	274.73	0.21
8806	1.97	318.64	8779.55	8779.55	197.00 S	190.05 E	639442.46 ↑	517150.87 E	273.62	0.07
8838	2.01	322.21	8811.53	8811.53	196.15 S	189.34 E	639443.32 ↑	517150.16 E	272.51	0.41
8868	2	323.82	8841.51	8841.51	195.31 S	188.71 E	639444.16 ↑	517149.53 E	271.47	0.19
8900	1.97	325.43	8873.49	8873.49	194.41 S	188.07 E	639445.06 ↑	517148.89 E	270.37	0.2
8931	2.05	333.04	8904.48	8904.48	193.47 S	187.51 E	639446.00 ↑	517148.33 E	269.31	0.9
8963	1.81	329.05	8936.46	8936.46	192.53 S	186.99 E	639446.94 ↑	517147.81 E	268.26	0.86
8995	1.9	316.82	8968.44	8968.44	191.71 S	186.37 E	639447.76 ↑	517147.19 E	267.23	1.27
9027	2	313.19	9000.42	9000.42	190.94 S	185.60 E	639448.53 ↑	517146.42 E	266.15	0.5
9061	2.11	314.84	9034.4	9034.4	190.09 S	184.72 E	639449.38 ↑	517145.54 E	264.93	0.37
9093	2.11	314.49	9066.38	9066.38	189.26 S	183.89 E	639450.20 ↑	517144.71 E	263.75	0.04
9125	1.93	320.99	9098.36	9098.36	188.43 S	183.13 E	639451.04 ↑	517143.95 E	262.63	0.91
9158	1.88	318.69	9131.34	9131.34	187.59 S	182.42 E	639451.87 ↑	517143.24 E	261.53	0.28
9190	2	310.69	9163.32	9163.32	186.84 S	181.65 E	639452.63 ↑	517142.47 E	260.45	0.92
9221	2.19	306.18	9194.3	9194.3	186.13 S	180.76 E	639453.33 ↑	517141.58 E	259.33	0.81
9253	1.86	307.28	9226.28	9226.28	185.46 S	179.86 E	639454.01 ↑	517140.67 E	258.22	1.04
9346	2.11	309.41	9319.23	9319.23	183.46 S	177.33 E	639456.01 ↑	517138.15 E	255.05	0.28
9441	1.84	312.76	9414.17	9414.17	181.31 S	174.86 E	639458.16 ↑	517135.68 E	251.79	0.31
9535	1.76	324.68	9508.12	9508.12	179.11 S	172.92 E	639460.36 ↑	517133.74 E	248.86	0.41
9631	1.14	330.31	9604.09	9604.09	177.08 S	171.59 E	639462.39 ↑	517132.41 E	246.46	0.66
9725	0.97	327.49	9698.08	9698.08	175.59 S	170.70 E	639463.88 ↑	517131.52 E	244.77	0.19

9819	0.88	342.61	9792.06	9792.06	174.23 S	170.06 E	639465.24 ↑	517130.88 E	243.33	0.28
9929	0.88	342.61	9902.05	9902.05	172.62 S	169.55 E	639466.85 ↑	517130.37 E	241.8	0 Projected E

All data is in feet (us) unless otherwise stated. Directions and coordinates are relative to Grid North.
 Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
 Vertical Section is from Well and calculated along an Azimuth of 137.640° (Grid).

Coordinate Eastern Zone.
 Grid Convergence at Surface is 0.030°.

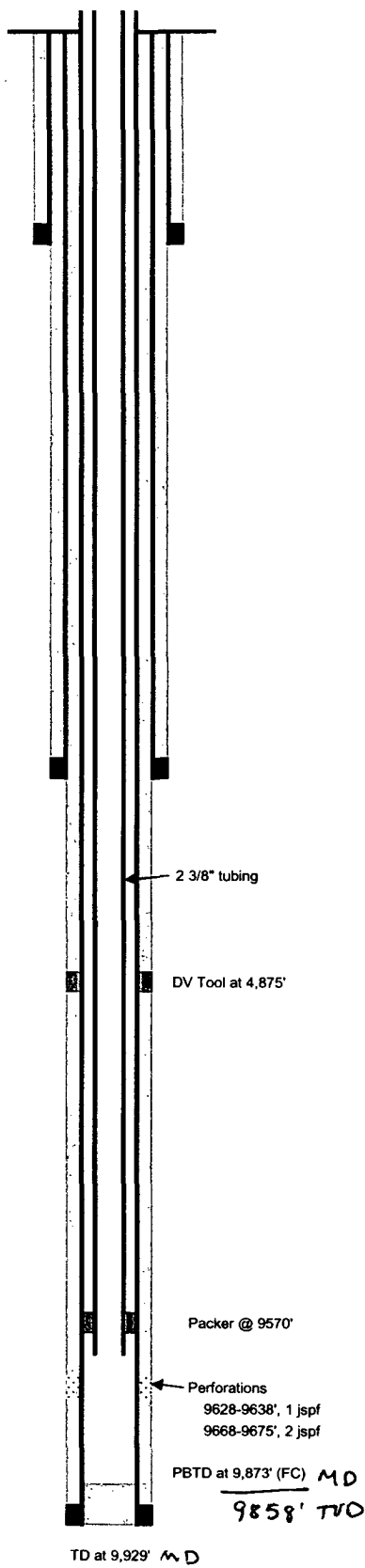
Based upo at a Measured Depth of 9929.00ft.
 The Botton in the Direction of 135.514° (Grid).

Not to Scale
diagram update 1/20/2006

Surface Casing
13-3/8" 48# H-40 at 426'
TOC - Surface

Intermediate Casing
8-5/8" 32# J-55 at 3,105'
TOC - Surface

Production Casing
5-1/2" 17# P-110 at 9,915'
TOC - Surface



Horsetail 9 Federal #1

Elevation: 3,505' Status:
KB: 16' Zone: Morrow
Meas. TD: 9,929' Interval:
TVD: 9,929' 9628' - 9675'
PBD: 9,890' (OH log) API: 30.015.34171.0000
Surf. Loc: 1,261' FSL Field: SCOGGIN DRAW
1,144' FEL Operator: BP America
Longitude: 104deg, 16'41.38" County: Eddy
Latitude: 32deg, 45'30.42" N State: New Mexico
S, T, R sec 9, T18S, R27E

Casing	Weight	Grade	Depth	Cmt Sx	Hole	TOC
20"						Surface
13-3/8	48	H-40	426'	635	17-1/2"	Surface
8-5/8	32	J-55	3,105'	1,580	11"	Surface
5-1/2	17	P-110	9,915'	695	7-7/8"	4,875' (DV Tool)
				565	7-7/8"	Surface

Date	Event
8/20/2005	Spud
10/13/2005	Rig release
10/19/2005	MIRU pulling unit
10/31/2005	Frac down casing 31 bpm w 1376 bbl 'slickwater' & 23,000 # 20/40 bauxite, AIP=4280 psi, fg=0.82 psi/ft
11/17/2005	Turn Over to Production