



10543 Fisher Rd. Houston, Texas 77041

30-045-33630

Surface 145/S 1166/E
BHL 2069/S 2453/EMd Tnd
6480 6226Mr. Joe Garcia

af

Peoples Energy Production / Resource Production

Well Name / Location:Gardner # 12
San Juan County, New Mexico

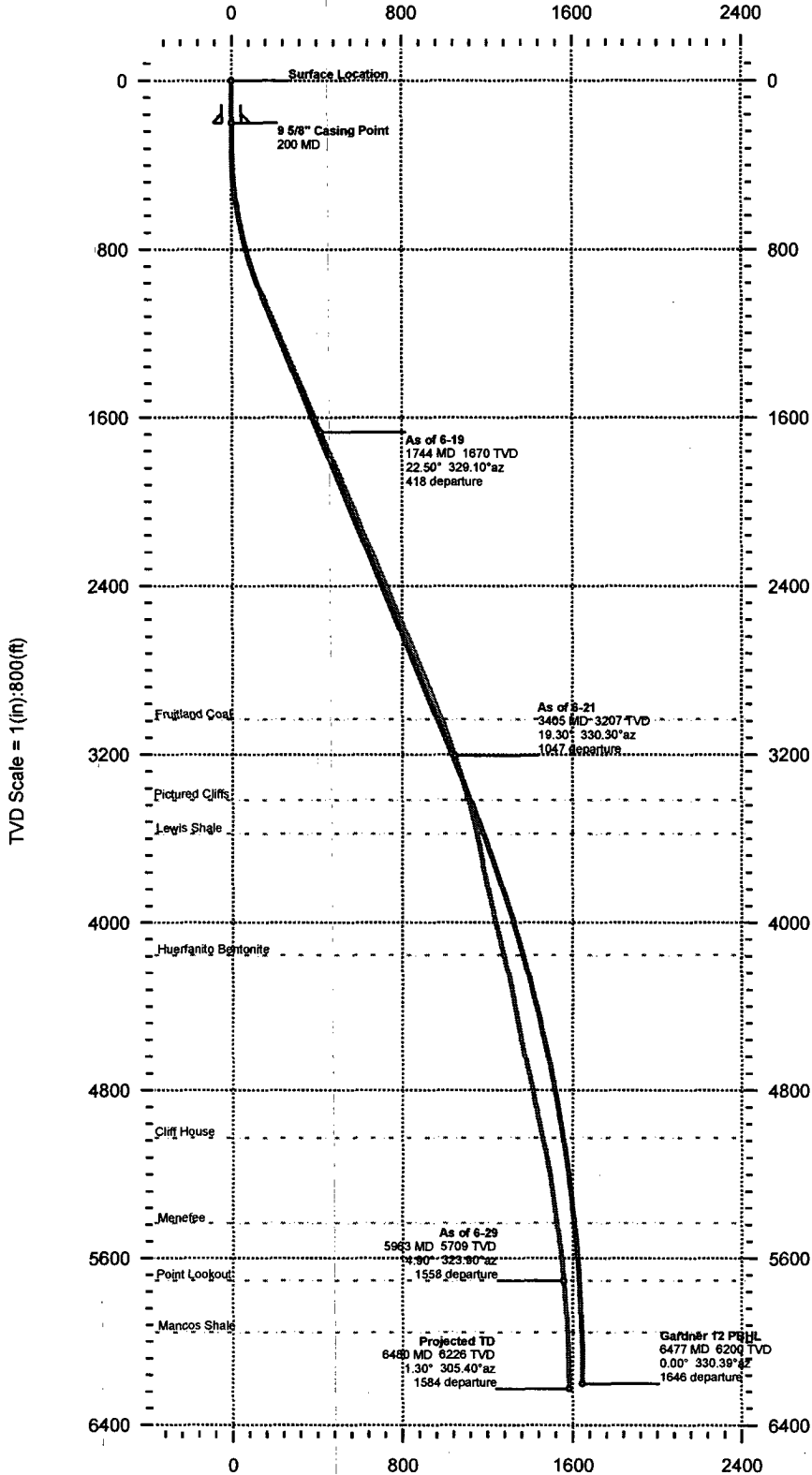


Peoples Energy Production

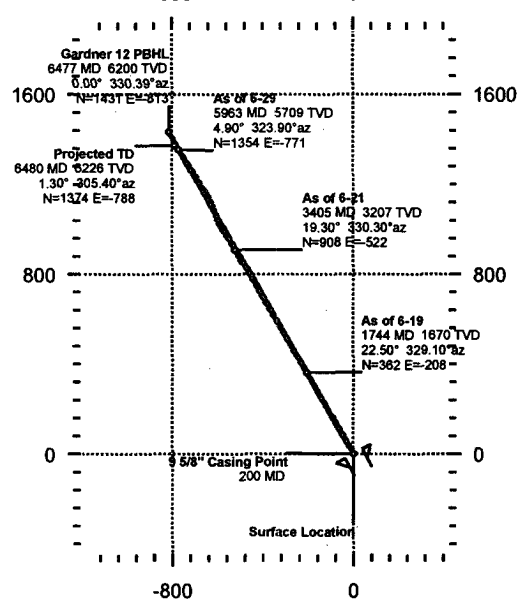


WELL Gardner 12	FIELD San Juan County, New Mexico NAD 83	STRUCTURE Patterson 754 / 20060610
Magnetic Parameters Model: IGRF 2005 Dip: 63.78° Mag Dec: +10.514° Date: June 16, 2008 FS: 51419.5 mT	Surface Location Lat: N38 57 0.800 Lon: W107 44 46.900 Northing: 2165201.76 mUS Easting: 2746504.83 mUS NAD83 New Mexico State Plane, Western Zone, US Feet Grid Conv: +0.0528078° Scale Fact: 0.9999174056	Miscellaneous Sit: Gardner 12 Plan: Surveys TVD Ref: (0.00 ft above) Srv Date: June 16, 2008

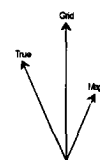
Vertical Section (ft) Azim = 330.39°, Scale = 1(in):800(ft) Origin = 0 N/-S, 0 E/-



<<< W Scale = 1(in):800(ft) E >>>
-800 0



<<< W Scale = 1(in):800(ft) E >>>



Grid North
Tot Corr (M→G +10.4617°)
Mag Dec (+10.514°)
Grid Conv (+0.05228078°)





Survey Report



Report Date: July 6, 2006	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Peoples Energy Production	Vertical Section Azimuth: 330.390°
Field: San Juan County, New Mexico NAD 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Gardner 12 / Gardner 12	TVD Reference Datum:
Well: Gardner 12	TVD Reference Elevation: 0.0 ft relative to
Borehole: Gardner 12	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 10.514°
Survey Name / Date: Surveys / June 19, 2006	Total Field Strength: 51419.300 nT
Tort / AHD / DDI / ERD ratio: 84.957° / 1587.60 ft / 5.147 / 0.255	Magnetic Dip: 63.768°
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet	Declination Date: June 19, 2006
Location Lat/Long: N 36 57 0.600, W 107 44 46.900	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 2165201.779 ftUS, E 2748504.829 ftUS	North Reference: Grid North
Grid Convergence Angle: +0.05228078°	Total Corr Mag North -> Grid North: +10.462°
Grid Scale Factor: 0.99991741	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)
Surface Location	0.00	0.00	330.39	0.00	0.00	0.00	0.00	0.00	0.00	2165201.78	2748504.83
	264.00	0.80	353.20	263.99	264.00	1.70	1.83	-0.22	0.30	2165203.61	2748504.61
	322.00	2.00	335.10	321.97	58.00	3.08	3.15	-0.69	2.18	2165204.93	2748504.14
	441.00	4.00	323.40	440.81	119.00	9.27	8.37	-4.04	1.75	2165210.14	2748500.79
	588.00	7.60	335.50	587.03	147.00	24.05	21.33	-11.13	2.57	2165223.11	2748493.70
	710.00	12.10	333.50	707.20	122.00	44.86	40.13	-20.19	3.70	2165241.90	2748484.64
	804.00	15.30	332.50	798.52	94.00	67.10	59.95	-30.31	3.41	2165261.72	2748474.52
	898.00	18.80	332.00	888.37	94.00	94.64	84.33	-43.15	3.73	2165286.10	2748461.68
	992.00	20.70	328.70	976.84	94.00	126.39	111.90	-58.90	2.34	2165313.67	2748445.94
	1086.00	23.30	329.20	1063.99	94.00	161.59	142.07	-77.05	2.77	2165343.84	2748427.78
	1180.00	23.20	328.40	1150.36	94.00	198.68	173.81	-96.27	0.35	2165375.58	2748408.56
	1274.00	22.80	327.50	1236.88	94.00	235.38	204.94	-115.76	0.57	2165406.70	2748389.08
	1368.00	22.90	329.30	1323.51	94.00	271.85	236.03	-134.88	0.75	2165437.79	2748369.96
	1462.00	22.40	329.80	1410.26	94.00	308.05	267.24	-153.23	0.57	2165468.99	2748351.61
	1556.00	23.10	329.90	1496.95	94.00	344.40	298.67	-171.49	0.75	2165500.42	2748333.36
As of 6-19	1650.00	23.10	329.90	1583.41	94.00	381.27	330.57	-189.98	0.00	2165532.33	2748314.86
	1744.00	22.50	329.10	1670.06	94.00	417.70	361.96	-208.47	0.72	2165563.71	2748296.38
	1837.00	23.10	330.10	1755.80	93.00	453.73	393.05	-226.70	0.77	2165594.79	2748278.15
	1931.00	23.80	330.80	1842.03	94.00	491.14	425.59	-245.15	0.80	2165627.33	2748259.70
	2026.00	22.70	330.50	1929.32	95.00	528.64	458.28	-263.52	1.16	2165660.02	2748241.33
	2120.00	22.90	330.70	2015.97	94.00	565.06	490.01	-281.41	0.23	2165691.75	2748223.45
	2214.00	21.80	329.80	2102.91	94.00	600.80	521.05	-299.14	1.23	2165722.78	2748205.72
	2308.00	23.20	329.10	2189.75	94.00	636.77	552.02	-317.43	1.52	2165753.75	2748187.43
	2402.00	23.40	329.80	2276.09	94.00	673.95	584.04	-336.32	0.36	2165785.77	2748168.53
	2497.00	22.30	328.70	2363.63	95.00	710.83	615.75	-355.18	1.24	2165817.47	2748149.68
	2590.00	22.60	330.60	2449.58	93.00	746.33	646.39	-373.12	0.84	2165848.12	2748131.74
	2684.00	22.70	329.40	2536.33	94.00	782.53	677.74	-391.22	0.50	2165879.46	2748113.65
	2809.00	22.90	331.30	2651.57	125.00	830.96	719.83	-415.17	0.61	2165921.55	2748089.69
	2904.00	22.80	331.20	2739.11	95.00	867.85	752.18	-432.92	0.11	2165953.89	2748071.95
	3029.00	22.40	330.40	2854.51	125.00	915.89	794.11	-456.35	0.40	2165995.82	2748048.52
As of 6-21	3123.00	21.10	329.30	2941.82	94.00	950.71	824.23	-473.84	1.45	2166025.94	2748031.03
	3217.00	20.00	330.10	3029.84	94.00	983.71	852.72	-490.49	1.21	2166054.42	2748014.38
	3310.00	20.00	331.50	3117.23	93.00	1015.51	880.48	-506.00	0.51	2166082.19	2747998.87
	3405.00	19.30	330.30	3206.70	95.00	1047.45	908.40	-521.53	0.85	2166110.10	2747983.34
	3499.00	17.20	329.80	3295.96	94.00	1076.89	933.90	-536.22	2.24	2166135.60	2747968.65
	3593.00	15.20	327.90	3386.23	94.00	1103.10	956.36	-549.77	2.20	2166158.06	2747955.11
	3687.00	14.30	327.50	3477.13	94.00	1127.01	976.59	-562.55	0.96	2166178.28	2747942.33
	3781.00	13.00	325.80	3568.47	94.00	1149.14	995.12	-574.73	1.45	2166196.82	2747930.15
	3901.00	9.80	326.50	3686.09	120.00	1172.79	1014.81	-587.96	2.67	2166216.50	2747916.92
	4027.00	12.50	338.80	3809.72	126.00	1198.99	1036.47	-598.81	2.84	2166238.16	2747906.07

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)
	4154.00	12.80	344.30	3933.64	127.00	1224.24	1062.83	-607.59	0.98	2166264.52	2747897.29
	4281.00	14.50	343.50	4057.05	127.00	1253.38	1091.62	-615.91	1.35	2166293.31	2747888.97
	4439.00	13.90	333.70	4210.24	158.00	1291.60	1127.60	-629.94	1.57	2166329.29	2747874.94
	4534.00	11.00	333.90	4303.00	95.00	1312.04	1145.98	-638.99	3.05	2166347.66	2747865.90
	4661.00	10.20	322.90	4427.84	127.00	1335.29	1165.83	-651.10	1.71	2166367.51	2747853.78
	4788.00	10.90	325.10	4552.70	127.00	1358.39	1184.65	-664.75	0.64	2166386.32	2747840.13
	4915.00	13.30	331.10	4676.87	127.00	1384.96	1207.29	-678.69	2.13	2166408.96	2747826.20
	5042.00	11.80	329.90	4800.83	127.00	1412.55	1231.31	-692.26	1.20	2166432.99	2747812.63
	5170.00	11.60	328.00	4926.17	128.00	1438.50	1253.55	-705.64	0.34	2166455.22	2747799.25
	5296.00	11.90	329.00	5049.53	126.00	1464.14	1275.43	-719.05	0.29	2166477.10	2747785.84
	5392.00	10.70	327.00	5143.67	96.00	1482.94	1291.39	-729.00	1.31	2166493.05	2747775.89
	5488.00	9.20	326.40	5238.22	96.00	1499.49	1305.25	-738.10	1.57	2166506.92	2747766.79
	5583.00	7.80	326.10	5332.18	95.00	1513.49	1316.93	-745.90	1.47	2166518.60	2747758.99
	5678.00	6.40	326.70	5426.45	95.00	1525.21	1326.71	-752.40	1.48	2166528.37	2747752.49
	5773.00	8.20	328.40	5520.67	95.00	1537.26	1336.90	-758.86	1.91	2166538.57	2747746.03
As of 6-29	5868.00	6.10	323.70	5614.93	95.00	1549.05	1346.74	-765.40	2.29	2166548.41	2747739.50
	5963.00	4.90	323.90	5709.49	95.00	1558.09	1354.09	-770.78	1.26	2166555.75	2747734.12
	6059.00	4.50	318.50	5805.17	96.00	1565.85	1360.22	-775.69	0.62	2166561.89	2747729.21
	6154.00	3.60	319.80	5899.93	95.00	1572.43	1365.29	-780.08	0.95	2166566.95	2747724.81
	6249.00	2.40	316.30	5994.80	95.00	1577.29	1369.01	-783.38	1.28	2166570.67	2747721.51
Projected TD	6344.00	1.80	316.20	6089.73	95.00	1580.67	1371.52	-785.79	0.63	2166573.19	2747719.11
	6440.00	1.30	305.40	6185.70	96.00	1583.12	1373.24	-787.72	0.60	2166574.90	2747717.18
	6480.00	1.30	305.40	6225.69	40.00	1583.94	1373.77	-788.46	0.00	2166575.43	2747716.44