

PathFinder

Survey Report - Geographic

Company: EOG Resources	Date: 4/4/2006	Time: 09:46:53	Page: 1
Field: Mescalero Escarpe	Co-ordinate(NE) Reference: Well: Mescalero Escarpe 7 State #1		
Site: Mescalero Escarpe 7 State #1	Vertical (TVD) Reference: System: Mean Sea Level		
Well: Mescalero Escarpe 7 State #1	Section (VS) Reference: Well (0.00N,0.00E,339.86Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Mescalero Escarpe
Lea CO. New Mexico

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Mescalero Escarpe 7 State #1
Section 7; T18S; R34E; N.M.P.M.
Lea Co. New Mexico

Site Position:	Northing: 640549.60 ft	Latitude: 32 45 31.678 N
From: Map	Easting: 726406.90 ft	Longitude: 103 35 48.678 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 4081.00 ft		Grid Convergence: 0.40 deg

Well: Mescalero Escarpe 7 State #1	Slot Name:
S Shape Well	
Well Position:	
+N/-S 0.00 ft	Northing: 640549.60 ft
+E/-W 0.00 ft	Easting: 726406.90 ft
Position Uncertainty: 0.00 ft	
	Latitude: 32 45 31.678 N
	Longitude: 103 35 48.678 W

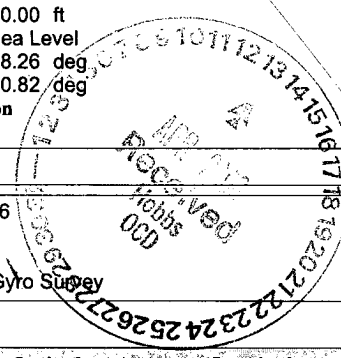
Wellpath: Original Hole	Drilled From: Surface
	Tie-on Depth: 0.00 ft
Current Datum: Mean Sea Level	Above System Datum: Mean Sea Level
Magnetic Data: 3/20/2006	Declination: 8.26 deg
Field Strength: 49506 nT	Mag Dip Angle: 60.82 deg
Vertical Section: Depth From (TVD)	+E/-W Direction
ft	deg
0.00	0.00
	0.00
	339.86

Survey: Pathfinder MWD Survey	Start Date: 4/4/2006
Company: PathFinder Energy Services	Engineer:
Tool:	Tied-to: From: Gyro Survey

Survey: Pathfinder MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude		Longitude	
								Deg	Min. Sec.	Deg	Min. Sec.
6050.00	1.11	0.44	6049.66	42.05	31.74	640591.65	726438.64	32 45	32.092 N	103 35	48.303 W
6100.00	3.45	345.79	6099.62	43.95	31.41	640593.55	726438.31	32 45	32.111 N	103 35	48.306 W
6200.00	5.63	336.37	6199.23	52.12	28.29	640601.72	726435.19	32 45	32.192 N	103 35	48.342 W
6267.00	5.95	334.52	6265.89	58.19	25.52	640607.79	726432.42	32 45	32.252 N	103 35	48.374 W
6300.00	6.32	333.84	6298.70	61.37	23.98	640610.97	726430.88	32 45	32.284 N	103 35	48.392 W
6400.00	6.52	332.81	6398.06	71.48	18.86	640621.08	726425.76	32 45	32.384 N	103 35	48.451 W
6500.00	6.60	332.88	6497.42	81.56	13.71	640631.16	726420.61	32 45	32.484 N	103 35	48.511 W
6600.00	6.59	330.01	6596.74	91.70	8.02	640641.30	726414.92	32 45	32.585 N	103 35	48.576 W
6700.00	6.28	332.99	6696.10	101.62	2.60	640651.22	726409.50	32 45	32.684 N	103 35	48.639 W
6800.00	5.84	334.78	6795.55	111.07	-1.88	640660.67	726405.02	32 45	32.777 N	103 35	48.691 W
6900.00	6.26	329.69	6895.00	120.27	-6.89	640669.87	726400.01	32 45	32.869 N	103 35	48.749 W
7000.00	6.48	328.58	6994.37	129.83	-12.69	640679.43	726394.21	32 45	32.964 N	103 35	48.816 W
7100.00	6.33	335.95	7093.75	139.59	-18.06	640689.19	726388.84	32 45	33.061 N	103 35	48.878 W
7200.00	6.86	336.43	7193.09	150.13	-22.56	640699.73	726384.34	32 45	33.165 N	103 35	48.930 W
7300.00	6.38	326.77	7292.39	160.57	-27.99	640710.17	726378.91	32 45	33.269 N	103 35	48.992 W
7400.00	6.04	328.36	7391.82	169.57	-33.67	640719.17	726373.23	32 45	33.358 N	103 35	49.058 W
7500.00	6.53	326.56	7491.22	178.80	-39.51	640728.40	726367.39	32 45	33.450 N	103 35	49.126 W
7600.00	6.74	325.07	7590.55	188.32	-46.02	640737.92	726360.88	32 45	33.545 N	103 35	49.201 W
7700.00	6.91	322.98	7689.84	198.02	-52.99	640747.62	726353.91	32 45	33.641 N	103 35	49.282 W
7800.00	6.95	322.88	7789.11	207.50	-60.36	640757.10	726346.54	32 45	33.736 N	103 35	49.368 W
7900.00	6.35	328.74	7888.49	216.85	-66.47	640766.45	726340.43	32 45	33.829 N	103 35	49.438 W
8000.00	6.80	326.08	7987.81	226.64	-72.70	640776.24	726334.20	32 45	33.926 N	103 35	49.510 W
8100.00	6.42	325.45	8087.16	236.00	-79.14	640785.60	726327.76	32 45	34.019 N	103 35	49.585 W

SUR: J-0-18s-34e, 1432/S & 1886/E
 BHL: J-07-18s-34e, 1706/S & 1997/E
 API # 30-025-37644



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Field: Mescalero Escarpe	Co-ordinate(NE) Reference:	Well: Mescalero Escarpe 7 State #1	
Site: Mescalero Escarpe 7 State #1	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Mescalero Escarpe 7 State #1	Section (VS) Reference:	Well (0.00N,0.00E,339.86Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Pathfinder MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec		← Longitude → Deg Min Sec	
8200.00	6.49	329.17	8186.51	245.49	-85.40	640795.09	726321.50	32 45	34.113 N	103 35	49.658 W
8249.00	5.98	334.88	8235.23	250.18	-87.88	640799.78	726319.02	32 45	34.160 N	103 35	49.686 W
8300.00	5.91	334.32	8285.95	254.95	-90.15	640804.55	726316.75	32 45	34.207 N	103 35	49.712 W
8400.00	5.39	330.26	8385.48	263.61	-94.61	640813.21	726312.29	32 45	34.293 N	103 35	49.764 W
8500.00	4.67	326.06	8485.06	271.27	-99.42	640820.87	726307.48	32 45	34.369 N	103 35	49.820 W
8514.98	4.37	325.98	8500.00	272.25	-100.09	640821.85	726306.81	32 45	34.379 N	103 35	49.827 W
8600.00	2.30	321.61	8584.86	276.43	-102.98	640826.03	726303.92	32 45	34.421 N	103 35	49.861 W
8700.00	0.85	282.59	8684.83	277.90	-104.77	640827.50	726302.13	32 45	34.435 N	103 35	49.882 W
8800.00	1.40	231.37	8784.81	277.19	-106.31	640826.79	726300.59	32 45	34.428 N	103 35	49.900 W
8900.00	1.12	252.29	8884.79	275.99	-108.28	640825.59	726298.62	32 45	34.417 N	103 35	49.923 W
9000.00	1.14	254.92	8984.77	275.53	-110.13	640825.13	726296.77	32 45	34.412 N	103 35	49.945 W

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec		← Longitude → Deg Min Sec	
Target (ME 7 #1)		8500.00	267.00	-95.70	640816.60	726311.20	32 45	34.327 N	103 35	49.777 W
PBHL		9050.00	277.93	-101.93	640827.53	726304.97	32 45	34.435 N	103 35	49.849 W

Annotation

MD ft	TVD ft	
6050.00	6049.66	KOP @ 6050' MD 6014' TVD
6050.00	6049.66	Start 3° / Build Rate
6267.00	6265.89	End of Build @ 6.5° Inc. 6267' MD 6231' TVD
8249.00	8235.23	End Of Hold Start Of Drop @ 8249' MD 8200' TVD