



Job Number:

Company: TEXACO E & P, INC.

Lease/Well: A. H. BLINEBRY FED NCT-1 #80

Location: LEA COUNTY NEW MEXICO

Rig Name: YALE KEY 124

RKB:

G.L. or M.S.L.:

State/Country: NEW MEXICO, USA

Declination: 9.11° EAST

Grid:

File name: G:\DENVER\AHBLIN80.SVY

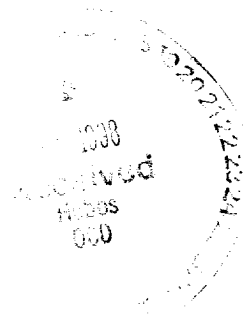
Date/Time: 23-Dec-87 / 18:44

Curve Name: Phoenix MWD Survey

Phoenix Drilling Services, Inc.

 WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 89.30

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tie in from Gyro Survey										
6816.00	1.90	241.40	6814.75	-6814.75	-54.09	-99.21	-99.87	113.00	241.40	.03
6851.00	1.20	89.10	6849.75	-6849.75	-54.37	-99.36	-100.01	113.26	241.31	8.61
6857.00	3.50	89.10	6855.74	-6855.74	-54.36	-99.11	-99.77	113.04	241.26	38.33
6867.00	8.80	89.10	6865.68	-6865.68	-54.35	-98.04	-98.70	112.10	241.00	53.00
6877.00	13.40	89.10	6875.49	-6875.49	-54.31	-96.12	-96.77	110.40	240.53	46.00
6887.00	17.60	89.10	6885.12	-6885.12	-54.27	-93.45	-94.10	108.06	239.85	42.00
6897.00	21.50	89.10	6894.55	-6894.55	-54.22	-90.10	-90.76	105.16	238.96	39.00
6907.00	25.20	91.30	6903.72	-6903.72	-54.24	-86.14	-86.79	101.79	237.80	38.01
6917.00	28.50	89.10	6912.65	-6912.65	-54.25	-81.62	-82.28	98.01	236.39	34.46
6927.00	32.20	89.10	6921.27	-6921.27	-54.17	-76.57	-77.23	93.80	234.72	37.00
6937.00	37.30	88.40	6929.49	-6929.49	-54.04	-70.87	-71.53	89.13	232.67	51.16
6947.00	42.90	89.10	6937.13	-6937.13	-53.91	-64.44	-65.09	84.01	230.09	56.18
6957.00	48.70	91.30	6944.10	-6944.10	-53.94	-57.27	-57.93	78.67	226.72	60.10
6967.00	54.40	91.30	6950.32	-6950.32	-54.12	-49.45	-50.10	73.30	222.42	57.00
6977.00	60.50	89.10	6955.70	-6955.70	-54.14	-41.02	-41.68	67.93	217.15	63.75
6983.00	64.20	88.40	6958.48	-6958.48	-54.02	-35.71	-36.37	64.76	213.46	62.53
7007.00	76.40	86.30	6966.56	-6966.56	-52.97	-13.18	-13.83	54.58	193.98	51.49
7038.00	81.60	84.20	6972.47	-6972.47	-50.44	17.13	16.51	53.27	161.24	18.04
7070.00	82.20	83.50	6976.98	-6976.98	-47.05	48.63	48.05	67.66	134.05	2.86
7133.00	87.30	82.10	6982.74	-6982.74	-39.18	110.85	110.36	117.57	109.47	8.39
7165.00	85.50	84.20	6984.75	-6984.75	-35.37	142.55	142.11	146.88	103.94	8.63
7229.00	84.10	84.20	6990.55	-6990.55	-28.93	205.96	205.59	207.98	98.00	2.19
7292.00	85.50	86.30	6996.26	-6996.26	-23.74	268.48	268.17	269.53	95.05	3.99



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
								Distance FT	Direction Deg	
7356.00	84.80	87.70	7001.67	-7001.67	-20.40	332.16	331.89	332.79	93.51	2.44
7419.00	82.50	85.60	7008.64	-7008.64	-16.75	394.66	394.43	395.02	92.43	4.93
7482.00	82.90	89.80	7016.65	-7016.65	-14.24	457.09	456.88	457.31	91.78	6.64
7547.00	85.30	91.90	7023.33	-7023.33	-15.20	521.73	521.50	521.95	91.67	4.89
7578.00	88.20	89.80	7025.09	-7025.09	-15.66	552.67	552.44	552.89	91.62	11.54
7610.00	88.20	89.10	7026.09	-7026.09	-15.35	584.65	584.42	584.85	91.50	2.19
7642.00	89.60	89.10	7026.71	-7026.71	-14.85	616.64	616.41	616.82	91.38	4.37
7705.00	90.30	89.10	7026.76	-7026.76	-13.86	679.63	679.41	679.77	91.17	1.11
7768.00	91.50	87.70	7025.77	-7025.77	-12.10	742.60	742.39	742.70	90.93	2.93
7830.00	92.20	87.70	7023.77	-7023.77	-9.62	804.51	804.34	804.57	90.68	1.13
7892.00	92.00	87.70	7021.50	-7021.50	-7.13	866.42	866.27	866.45	90.47	.32
7956.00	92.60	87.70	7018.93	-7018.93	-4.56	930.32	930.19	930.33	90.28	.94
8020.00	91.50	87.70	7016.64	-7016.64	-2.00	994.23	994.13	994.23	90.12	1.72
8082.00	91.80	87.70	7014.86	-7014.86	.49	1056.15	1056.08	1056.15	89.97	.48
8146.00	92.70	88.40	7012.35	-7012.35	2.67	1120.06	1120.01	1120.07	89.86	1.78
8210.00	91.10	89.10	7010.22	-7010.22	4.06	1184.01	1183.97	1184.02	89.80	2.73
8272.00	90.80	89.80	7009.20	-7009.20	4.66	1246.00	1245.96	1246.01	89.79	1.23
8335.00	90.80	90.60	7008.32	-7008.32	4.44	1308.99	1308.95	1309.00	89.81	1.27
8398.00	92.00	89.10	7006.78	-7006.78	4.60	1371.97	1371.92	1371.98	89.81	3.05
8460.00	91.00	89.10	7005.15	-7005.15	5.58	1433.94	1433.90	1433.95	89.78	1.61
8524.00	89.40	88.40	7004.93	-7004.93	6.97	1497.92	1497.89	1497.94	89.73	2.73
8587.00	85.50	88.40	7007.73	-7007.73	8.73	1560.82	1560.81	1560.85	89.68	6.19
8649.00	83.40	88.40	7013.73	-7013.73	10.45	1622.50	1622.51	1622.54	89.63	3.39
8681.00	81.50	88.40	7017.93	-7017.93	11.34	1654.21	1654.23	1654.25	89.61	5.94
8712.00	81.50	89.10	7022.51	-7022.51	12.01	1684.86	1684.89	1684.91	89.59	2.23
8744.00	80.20	88.40	7027.60	-7027.60	12.70	1716.45	1716.48	1716.50	89.58	4.60
8776.00	79.30	88.40	7033.30	-7033.30	13.57	1747.93	1747.96	1747.98	89.56	2.81
8807.00	80.40	87.70	7038.76	-7038.76	14.61	1778.42	1778.47	1778.48	89.53	4.19
8839.00	80.60	87.70	7044.04	-7044.04	15.88	1809.96	1810.02	1810.03	89.50	.62
8871.00	81.60	89.10	7048.99	-7048.99	16.76	1841.56	1841.63	1841.64	89.48	5.33
8903.00	81.50	89.10	7053.70	-7053.70	17.26	1873.21	1873.28	1873.29	89.47	.31
8934.00	81.60	89.80	7058.25	-7058.25	17.55	1903.87	1903.94	1903.95	89.47	2.26
8966.00	81.60	90.60	7062.93	-7062.93	17.44	1935.53	1935.59	1935.60	89.48	2.47
8998.00	81.10	91.30	7067.74	-7067.74	16.92	1967.16	1967.22	1967.23	89.51	2.67
9029.00	81.60	91.90	7072.40	-7072.40	16.06	1997.79	1997.84	1997.86	89.51	2.50
9061.00	80.80	91.30	7077.30	-7077.30	15.18	2029.40	2029.44	2029.46	89.57	3.11
9093.00	80.60	91.90	7082.47	-7082.47	14.30	2060.97	2060.99	2061.02	89.60	1.95
9124.00	79.70	93.40	7087.77	-7087.77	12.89	2091.48	2091.48	2091.52	89.65	5.58
9156.00	79.50	93.40	7093.55	-7093.55	11.02	2122.90	2122.87	2122.93	89.70	.62
9188.00	79.50	91.30	7099.38	-7099.38	9.73	2154.33	2154.29	2154.36	89.74	6.45
9220.00	80.80	91.30	7104.85	-7104.85	9.01	2185.85	2185.80	2185.87	89.76	4.06
9251.00	83.10	89.80	7109.19	-7109.19	8.72	2216.54	2216.48	2216.56	89.77	8.83



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
9283.00	83.20	89.80	7113.01	-7113.01	8.83	2248.31	2248.25	2248.33	89.77	.31
9315.00	79.20	91.90	7117.91	-7117.91	8.37	2279.93	2279.86	2279.94	89.79	14.08
9346.00	76.00	92.70	7124.56	-7124.56	7.15	2310.17	2310.09	2310.19	89.82	10.63
9378.00	73.90	91.90	7132.87	-7132.87	5.91	2341.05	2340.95	2341.06	89.86	6.99
9410.00	71.80	89.10	7142.31	-7142.31	5.64	2371.62	2371.51	2371.63	89.86	10.63
9441.00	69.70	87.00	7152.53	-7152.53	6.63	2400.87	2400.77	2400.88	89.84	9.32
9473.00	68.30	85.60	7164.00	-7164.00	8.56	2430.68	2430.60	2430.69	89.80	5.99
Projected Survey to TD										
9520.00	68.30	85.60	7181.38	-7181.38	11.91	2474.22	2474.18	2474.25	89.72	.00

