



Ryan Energy Technologies

COMPLETION REPORT



Company: El Paso E&P Company, L.P.	Date: 6/6/2011	Time: 14:47:29	Page: 1
Field: Reagan Co, TX	Co-ordinate(NE) Reference:	Site: University 11-18 #1H, Grid North	
Site: University 11-18 #1H	Vertical (TVD) Reference:	SITE 2719.6	
Well: 11-18 #1H	Section (VS) Reference:	Well (0.00N,0.00E,180.80Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Reagan Co, TX
Texas
U.S.A.

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

Map Zone: Texas, Central Zone
Coordinate System: Site Centre
Geomagnetic Model: IGRF2010

Site: University 11-18 #1H
S18-B11
Reagan Co, TX

Site Position:	Northing: 553744.00 ft	Latitude: 31 11 3.275 N
From: Map	Easting: 1643762.00 ft	Longitude: 101 28 21.300 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 2703.00 ft		Grid Convergence: -0.59 deg

Well: 11-18 #1H

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 553744.00 ft	Latitude: 31 11 3.275 N
+E/-W 0.00 ft	Easting: 1643762.00 ft	Longitude: 101 28 21.300 W
Position Uncertainty: 0.00 ft		

Wellpath: OH
Wolfcamp

Current Datum: SITE
Magnetic Data: 4/21/2011
Field Strength: 48241 nT
Vertical Section: Depth From (TVD)
ft

Height 2719.60 ft

+N/-S
ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 6.54 deg
Mag Dip Angle: 59.57 deg
+E/-W ft
Direction deg

0.00

0.00

0.00

180.80

Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	DLS deg/100ft	Tool
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.44	100.00	0.38	186.74	-0.38	-0.05	0.38	186.74	0.44	Gyro
200.00	0.32	200.00	1.04	186.05	-1.04	-0.12	1.05	186.56	0.12	Gyro
300.00	0.41	299.99	1.68	177.52	-1.68	-0.13	1.68	184.56	0.10	Gyro
400.00	0.39	399.99	2.37	173.82	-2.37	-0.08	2.37	181.97	0.03	Gyro
500.00	0.44	499.99	3.01	141.66	-3.01	0.19	3.02	176.32	0.23	Gyro
600.00	0.74	599.98	3.59	116.53	-3.60	1.01	3.74	164.34	0.39	Gyro
700.00	0.81	699.98	4.12	111.95	-4.15	2.24	4.72	151.63	0.09	Gyro
800.00	0.65	799.97	4.61	115.42	-4.66	3.41	5.78	143.80	0.17	Gyro
900.00	0.36	899.96	4.99	117.88	-5.05	4.20	6.57	140.25	0.29	Gyro
1000.00	0.34	999.96	5.28	120.00	-5.35	4.74	7.14	138.47	0.02	Gyro
1100.00	0.22	1099.96	5.51	115.83	-5.58	5.17	7.60	137.20	0.12	Gyro
1200.00	0.14	1199.96	5.69	149.63	-5.77	5.40	7.90	136.89	0.13	Gyro
1300.00	0.15	1299.96	5.78	278.15	-5.85	5.33	7.92	137.67	0.26	Gyro
1400.00	0.10	1399.96	5.81	233.87	-5.89	5.13	7.81	138.92	0.10	Gyro
1500.00	0.11	1499.96	5.87	268.26	-5.94	4.97	7.74	140.11	0.06	Gyro
1600.00	0.11	1599.96	5.88	266.22	-5.95	4.77	7.63	141.26	0.00	Gyro
1700.00	0.20	1699.96	5.94	254.58	-6.00	4.51	7.51	143.09	0.09	Gyro
1800.00	0.21	1799.96	6.11	228.76	-6.17	4.20	7.47	145.74	0.09	Gyro
1900.00	0.25	1899.96	6.42	213.91	-6.47	3.94	7.58	148.64	0.07	Gyro
2000.00	0.26	1999.96	6.78	216.57	-6.84	3.69	7.77	151.66	0.02	Gyro
2100.00	0.29	2099.96	7.20	202.74	-7.25	3.45	8.03	154.53	0.07	Gyro
2200.00	0.38	2199.95	7.74	203.71	-7.79	3.22	8.43	157.52	0.09	Gyro
2300.00	0.40	2299.95	8.32	220.24	-8.36	2.86	8.84	161.09	0.11	Gyro
2400.00	0.65	2399.95	8.99	225.06	-9.03	2.24	9.30	166.08	0.25	Gyro
2500.00	0.67	2499.94	9.88	215.21	-9.90	1.50	10.02	171.40	0.12	Gyro
2600.00	0.65	2599.93	10.73	230.13	-10.75	0.73	10.77	176.13	0.17	Gyro
2700.00	0.63	2699.93	11.43	234.56	-11.43	-0.16	11.43	180.79	0.05	Gyro



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Wellpath: OH

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Vertical (TVD) Reference: SITE 2719.6
Section (VS) Reference: Well (0.00N,0.00E,180.80Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Page: 2

Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	DLS deg/100ft	Tool
2800.00	0.59	2799.92	12.03	238.56	-12.02	-1.04	12.06	184.97	0.06	Gyro
2900.00	0.41	2899.92	12.59	218.61	-12.56	-1.71	12.68	187.74	0.25	Gyro
3000.00	0.23	2999.92	13.07	171.55	-13.04	-1.90	13.18	188.29	0.30	Gyro
3100.00	0.36	3099.92	13.55	157.66	-13.53	-1.75	13.64	187.38	0.15	Gyro
3200.00	0.36	3199.91	14.07	136.20	-14.05	-1.41	14.12	185.75	0.13	Gyro
3300.00	0.35	3299.91	14.59	171.78	-14.58	-1.15	14.62	184.53	0.22	Gyro
3400.00	0.54	3399.91	15.35	166.64	-15.34	-1.00	15.37	183.74	0.19	Gyro
3500.00	0.46	3499.90	16.20	167.16	-16.19	-0.80	16.21	182.84	0.08	Gyro
3600.00	0.48	3599.90	17.00	172.16	-16.99	-0.66	17.01	182.21	0.05	Gyro
3700.00	0.53	3699.90	17.88	179.99	-17.87	-0.60	17.88	181.92	0.09	Gyro
3800.00	0.69	3799.89	18.91	162.54	-18.91	-0.42	18.91	181.27	0.24	Gyro
3900.00	0.51	3899.89	19.93	176.73	-19.93	-0.21	19.93	180.61	0.23	Gyro
4000.00	0.47	3999.88	20.78	189.91	-20.78	-0.26	20.78	180.71	0.12	Gyro
4100.00	0.46	4099.88	21.58	177.99	-21.58	-0.31	21.58	180.84	0.10	Gyro
4200.00	0.57	4199.88	22.48	181.69	-22.48	-0.32	22.48	180.80	0.11	Gyro
4300.00	0.57	4299.87	23.48	183.99	-23.47	-0.36	23.48	180.89	0.02	Gyro
4400.00	0.50	4399.87	24.38	200.09	-24.38	-0.55	24.38	181.29	0.17	Gyro
4500.00	0.34	4499.86	25.08	166.84	-25.08	-0.63	25.08	181.44	0.29	Gyro
4600.00	0.31	4599.86	25.62	156.53	-25.61	-0.46	25.62	181.02	0.07	Gyro
4700.00	0.29	4699.86	25.98	117.48	-25.98	-0.12	25.98	180.27	0.20	Gyro
4800.00	0.44	4799.86	25.85	309.47	-25.85	-0.20	25.85	180.43	0.73	Gyro
4860.00	0.45	4859.86	25.57	306.71	-25.56	-0.56	25.57	181.26	0.04	Gyro
4900.00	0.47	4899.86	25.35	320.88	-25.34	-0.79	25.36	181.79	0.29	Gyro
5000.00	0.34	4999.85	24.79	327.93	-24.77	-1.21	24.80	182.79	0.14	Gyro
5100.00	0.44	5099.85	24.70	246.44	-24.68	-1.72	24.74	183.98	0.51	Gyro
5200.00	0.48	5199.85	25.18	219.27	-25.15	-2.33	25.26	185.30	0.22	Gyro
5300.00	0.43	5299.85	25.66	247.10	-25.62	-2.95	25.79	186.56	0.22	Gyro
5400.00	0.33	5399.84	25.97	237.93	-25.92	-3.54	26.16	187.77	0.12	Gyro
5500.00	0.26	5499.84	26.21	248.40	-26.16	-3.99	26.46	188.67	0.09	Gyro
5600.00	0.16	5599.84	26.41	142.26	-26.35	-4.12	26.67	188.88	0.34	Gyro
5700.00	0.24	5699.84	26.72	189.60	-26.67	-4.07	26.98	188.67	0.18	Gyro
5800.00	0.26	5799.84	27.16	182.74	-27.10	-4.11	27.41	188.62	0.04	Gyro
5900.00	0.26	5899.84	27.61	194.20	-27.55	-4.18	27.86	188.62	0.05	Gyro
6000.00	0.35	5999.84	28.13	189.48	-28.07	-4.28	28.40	188.68	0.09	Gyro
6100.00	0.27	6099.84	28.66	166.74	-28.60	-4.28	28.92	188.51	0.15	Gyro
6200.00	0.24	6199.84	29.09	171.80	-29.04	-4.20	29.34	188.22	0.04	Gyro
6300.00	0.34	6299.83	29.60	180.79	-29.54	-4.17	29.83	188.03	0.11	Gyro
6400.00	0.40	6399.83	30.23	196.64	-30.17	-4.27	30.47	188.06	0.12	Gyro
6500.00	0.39	6499.83	30.90	192.31	-30.84	-4.45	31.16	188.20	0.03	Gyro
6587.00	0.40	6586.83	31.44	216.60	-31.37	-4.69	31.72	188.50	0.19	MWD
6618.00	0.20	6617.83	31.56	229.50	-31.50	-4.80	31.86	188.66	0.68	MWD
6649.00	0.30	6648.83	31.67	208.70	-31.60	-4.88	31.98	188.77	0.43	MWD
6680.00	0.30	6679.83	31.80	222.90	-31.73	-4.97	32.12	188.90	0.24	MWD
6712.00	4.10	6711.80	32.97	194.10	-32.90	-5.31	33.33	189.16	12.00	MWD
6744.00	8.50	6743.60	36.40	193.60	-36.31	-6.14	36.83	189.60	13.75	MWD
6776.00	12.40	6775.06	42.07	192.10	-41.97	-7.42	42.62	190.02	12.22	MWD
6808.00	15.50	6806.11	49.66	190.70	-49.54	-8.93	50.34	190.22	9.74	MWD
6839.00	18.50	6835.75	58.61	188.90	-58.47	-10.46	59.40	190.15	9.82	MWD
6870.00	21.20	6864.91	69.04	188.40	-68.87	-12.04	69.92	189.92	8.73	MWD
6902.00	22.80	6894.58	80.93	187.60	-80.74	-13.71	81.90	189.64	5.09	MWD
6934.00	24.20	6923.93	93.64	182.70	-93.44	-14.84	94.61	189.02	7.51	MWD
6966.00	26.20	6952.88	107.25	177.50	-107.06	-14.84	108.08	187.89	9.32	MWD



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Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	DLS deg/100ft	Tool
6998.00	28.00	6981.37	121.80	177.40	-121.62	-14.19	122.44	186.65	5.63	MWD
7027.00	29.50	7006.80	135.74	180.30	-135.56	-13.92	136.27	185.86	7.06	MWD
7060.00	32.40	7035.09	152.71	182.00	-152.52	-14.27	153.19	185.34	9.18	MWD
7091.00	35.80	7060.76	170.08	183.00	-169.88	-15.03	170.55	185.06	11.12	MWD
7123.00	39.10	7086.16	189.51	183.70	-189.31	-16.18	190.00	184.88	10.40	MWD
7154.00	42.50	7109.62	209.75	183.00	-209.52	-17.35	210.24	184.73	11.07	MWD
7186.00	45.80	7132.58	232.02	182.40	-231.79	-18.40	232.51	184.54	10.39	MWD
7218.00	48.30	7154.39	255.44	180.60	-255.20	-19.01	255.90	184.26	8.83	MWD
7249.00	51.40	7174.37	279.13	179.60	-278.89	-19.04	279.54	183.91	10.30	MWD
7281.00	54.80	7193.58	304.71	179.50	-304.47	-18.84	305.06	183.54	10.63	MWD
7313.00	58.70	7211.12	331.46	180.00	-331.23	-18.73	331.76	183.24	12.26	MWD
7345.00	62.50	7226.83	359.33	180.50	-359.10	-18.85	359.60	183.01	11.95	MWD
7376.00	66.00	7240.30	387.25	181.00	-387.02	-19.22	387.49	182.84	11.38	MWD
7407.00	69.80	7251.96	415.96	180.80	-415.73	-19.67	416.20	182.71	12.27	MWD
7438.00	73.60	7261.69	445.39	182.10	-445.15	-20.42	445.62	182.63	12.89	MWD
7469.00	78.30	7269.21	475.45	181.70	-475.19	-21.41	475.68	182.58	15.21	MWD
7502.00	83.00	7274.57	508.00	181.00	-507.74	-22.18	508.22	182.50	14.40	MWD
7531.00	86.10	7277.33	536.86	180.70	-536.60	-22.61	537.08	182.41	10.74	MWD
7556.00	86.70	7278.90	561.81	180.50	-561.55	-22.87	562.01	182.33	2.53	MWD
7651.00	86.80	7284.28	656.66	180.00	-656.40	-23.28	656.81	182.03	0.54	MWD
7746.00	87.50	7289.01	751.53	179.80	-751.28	-23.12	751.63	181.76	0.77	MWD
7842.00	87.60	7293.11	847.42	179.50	-847.19	-22.53	847.49	181.52	0.33	MWD
7936.00	88.60	7296.23	941.35	179.70	-941.13	-21.87	941.39	181.33	1.08	MWD
8029.00	90.90	7296.63	1034.32	179.40	-1034.12	-21.14	1034.34	181.17	2.49	MWD
8122.00	91.40	7294.77	1127.27	179.50	-1127.10	-20.25	1127.28	181.03	0.55	MWD
8217.00	90.00	7293.60	1222.16	177.00	-1222.04	-17.35	1222.16	180.81	3.02	MWD
8313.00	90.60	7293.10	1318.00	178.10	-1317.95	-13.25	1318.01	180.58	1.31	MWD
8409.00	90.20	7292.43	1413.94	179.60	-1413.92	-11.32	1413.97	180.46	1.62	MWD
8504.00	90.90	7291.52	1508.93	180.40	-1508.92	-11.32	1508.96	180.43	1.12	MWD
8600.00	90.10	7290.68	1604.92	180.00	-1604.91	-11.66	1604.95	180.42	0.93	MWD
8696.00	90.90	7289.84	1700.91	181.40	-1700.90	-12.83	1700.95	180.43	1.68	MWD
8790.00	90.30	7288.86	1794.89	181.90	-1794.85	-15.53	1794.92	180.50	0.83	MWD
8885.00	90.50	7288.20	1889.86	182.50	-1889.78	-19.18	1889.88	180.58	0.67	MWD
8981.00	90.10	7287.69	1985.83	181.90	-1985.71	-22.87	1985.84	180.66	0.75	MWD
9077.00	93.00	7285.10	2081.74	183.10	-2081.57	-27.05	2081.74	180.74	3.27	MWD
9173.00	93.40	7279.74	2177.53	182.70	-2177.30	-31.90	2177.53	180.84	0.59	MWD
9269.00	92.40	7274.88	2273.35	182.60	-2273.07	-36.33	2273.36	180.92	1.05	MWD
9362.00	91.10	7272.04	2366.29	181.10	-2366.97	-39.33	2366.30	180.95	2.13	MWD
9459.00	90.50	7270.69	2463.24	177.80	-2462.94	-38.40	2463.24	180.89	3.46	MWD
9554.00	91.80	7268.78	2558.15	179.60	-2557.89	-36.25	2558.15	180.81	2.34	MWD
9649.00	92.60	7265.13	2653.06	179.70	-2652.82	-35.67	2653.06	180.77	0.85	MWD
9746.00	91.50	7261.66	2749.99	180.40	-2749.76	-35.75	2749.99	180.74	1.34	MWD
9840.00	90.40	7260.11	2843.97	181.80	-2843.72	-37.56	2843.97	180.76	1.89	MWD
9935.00	91.10	7258.86	2938.95	181.90	-2938.67	-40.62	2938.95	180.79	0.74	MWD
10031.00	88.50	7259.20	3034.93	180.70	-3034.63	-42.80	3034.93	180.81	2.98	MWD
10126.00	89.30	7261.02	3129.91	181.00	-3129.60	-44.21	3129.91	180.81	0.90	MWD
10220.00	89.80	7261.76	3223.91	181.20	-3223.58	-46.01	3223.91	180.82	0.57	MWD
10314.00	89.10	7262.66	3317.90	180.00	-3317.57	-47.00	3317.90	180.81	1.48	MWD
10410.00	89.10	7264.17	3413.88	180.40	-3413.56	-47.33	3413.88	180.79	0.42	MWD
10505.00	88.80	7265.91	3508.87	180.40	-3508.54	-48.00	3508.87	180.78	0.32	MWD
10601.00	90.50	7266.50	3604.85	182.30	-3604.50	-50.26	3604.85	180.80	2.66	MWD
10694.00	87.90	7267.79	3697.82	180.80	-3697.45	-52.77	3697.82	180.82	3.23	MWD
10790.00	88.20	7271.06	3793.77	181.00	-3793.38	-54.28	3793.77	180.82	0.38	MWD



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10886.00	89.10	7273.32	3889.74	181.30	-3889.33	-56.21	3889.74	180.83	0.99	MWD
10982.00	87.30	7276.34	3985.68	179.50	-3985.28	-56.88	3985.68	180.82	2.65	MWD
11077.00	87.90	7280.32	4080.58	179.80	-4080.19	-56.30	4080.58	180.79	0.71	MWD
11172.00	88.20	7283.55	4175.51	180.00	-4175.13	-56.13	4175.51	180.77	0.38	MWD
11266.00	89.70	7285.27	4269.49	181.00	-4269.11	-56.95	4269.49	180.76	1.92	MWD
11362.00	91.00	7284.69	4365.48	182.00	-4365.07	-59.47	4365.48	180.78	1.71	MWD
11477.00	89.10	7284.59	4480.46	181.10	-4480.03	-62.58	4480.46	180.80	1.83	MWD
11571.00	90.00	7285.32	4574.46	181.40	-4574.00	-64.63	4574.46	180.81	1.01	MWD
11667.00	90.30	7285.07	4670.45	181.10	-4669.98	-66.72	4670.45	180.82	0.44	MWD
11762.00	91.00	7283.99	4765.44	181.20	-4764.95	-68.63	4765.44	180.83	0.74	MWD
11857.00	89.50	7283.58	4860.44	181.20	-4859.93	-70.62	4860.44	180.83	1.58	MWD
11950.00	90.40	7283.66	4953.43	181.40	-4952.90	-72.73	4953.43	180.84	0.99	MWD
12046.00	91.70	7281.90	5049.40	181.90	-5048.84	-75.49	5049.41	180.86	1.45	MWD
12141.00	91.10	7279.58	5144.37	181.10	-5143.78	-77.98	5144.37	180.87	1.05	MWD
12236.00	90.60	7278.17	5239.35	181.30	-5238.75	-79.97	5239.36	180.87	0.57	MWD
12332.00	90.20	7277.50	5335.35	180.10	-5334.74	-81.14	5335.35	180.87	1.32	MWD
12427.00	89.70	7277.58	5430.33	179.00	-5429.73	-80.39	5430.33	180.85	1.27	MWD
12522.00	89.80	7278.00	5525.31	181.60	-5524.72	-80.89	5525.31	180.84	2.74	MWD
12618.00	88.00	7279.84	5621.29	181.00	-5620.67	-83.07	5621.29	180.85	1.98	MWD
12714.00	88.30	7282.94	5717.24	180.40	-5716.62	-84.24	5717.24	180.84	0.70	MWD
12808.00	89.90	7284.42	5811.22	181.70	-5810.58	-85.96	5811.22	180.85	2.19	MWD
12904.00	91.70	7283.08	5907.17	183.00	-5906.49	-89.90	5907.17	180.87	2.31	MWD
12999.00	90.40	7281.34	6002.12	181.40	-6001.40	-93.54	6002.13	180.89	2.17	MWD
13094.00	88.90	7281.92	6097.11	180.50	-6096.38	-95.12	6097.12	180.89	1.84	MWD
13188.00	89.50	7283.23	6191.09	179.50	-6190.37	-95.12	6191.10	180.88	1.24	MWD
13283.00	87.50	7285.72	6286.03	179.30	-6285.33	-94.12	6286.03	180.86	2.12	MWD
13379.00	88.20	7289.32	6381.94	179.90	-6381.25	-93.45	6381.94	180.84	0.96	MWD
13475.00	88.70	7291.91	6477.89	179.90	-6477.22	-93.29	6477.89	180.83	0.52	MWD
13570.00	89.30	7293.57	6572.87	180.40	-6572.20	-93.54	6572.87	180.82	0.82	MWD
13665.00	89.70	7294.40	6667.86	180.40	-6667.20	-94.20	6667.86	180.81	0.42	MWD
13761.00	89.90	7294.74	6763.86	180.10	-6763.20	-94.62	6763.86	180.80	0.38	MWD
13856.00	90.40	7294.49	6858.85	180.20	-6858.19	-94.87	6858.85	180.79	0.54	MWD
13950.00	91.40	7293.01	6952.84	181.10	-6952.17	-95.93	6952.84	180.79	1.43	MWD
14045.00	90.50	7291.44	7047.82	180.90	-7047.15	-97.59	7047.82	180.79	0.97	MWD
14140.00	90.50	7290.61	7142.82	180.20	-7142.14	-98.50	7142.82	180.79	0.74	MWD
14235.00	90.70	7289.61	7237.81	180.40	-7237.13	-99.00	7237.81	180.78	0.30	MWD
14330.00	90.80	7288.37	7332.80	180.20	-7332.12	-99.50	7332.80	180.78	0.24	MWD
14426.00	90.20	7287.53	7428.78	179.50	-7428.12	-99.25	7428.78	180.77	0.96	MWD
14522.00	90.60	7286.86	7524.74	179.20	-7524.11	-98.16	7524.75	180.75	0.52	MWD
14615.00	90.80	7285.72	7617.68	178.50	-7617.08	-96.29	7617.69	180.72	0.78	MWD
14708.00	90.60	7284.59	7710.58	178.00	-7710.03	-93.45	7710.60	180.69	0.58	MWD
14804.00	90.40	7283.75	7806.44	177.40	-7805.95	-89.60	7806.46	180.66	0.66	MWD
14900.00	90.60	7282.91	7902.24	176.80	-7901.82	-84.74	7902.28	180.61	0.66	MWD
14968.00	90.50	7282.26	7970.03	176.00	-7969.68	-80.47	7970.09	180.58	1.19	MWD
15024.00	90.50	7281.77	8025.83	176.00	-8025.55	-76.57	8025.91	180.55	0.00	Projection