



Job Number: 101117505028
Company: Yates Petroleum
Lease/Well: Farber Bob Federal #1H
Location: Lea County, NM
Rig Name: Silver Oak 10
RKB: 18'
G.L. or M.S.L.: GL

RECEIVED
MAY 24 2010
HOBBSOCD

State/Country: New Mexico/USA
Declination: 7.41°
Grid: East To Grid
File name: F:\SURVEY\2010SU~1\YATESP~1\FARBER1H.SVY
Date/Time: 14-Jan-10 / 10:49
Curve Name: Surface - 10400' M.D. (Gyroscopic)

We hereby certify that our survey data from
Surface MD to 10,400' MD is, to the best of
our knowledge a true and accurate account of the
well bore.

Alana Little 1/14/10
MS Energy Services Date

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

SUR: M-01-25s-32e, 330/S & 660/ W
BHL: D-01-25s-32e, 4859/S & 682/ W
API # 30-025-39525

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	147.11	100.00	-.18	.12	-.18	.22	147.11	.25
200.00	.25	143.19	200.00	-.54	.37	-.54	.65	145.80	.02
300.00	.75	141.27	299.99	-1.23	.91	-1.23	1.53	143.49	.50
400.00	1.00	130.34	399.98	-2.30	1.98	-2.30	3.04	139.26	.30
500.00	1.50	136.42	499.96	-3.81	3.55	-3.81	5.21	137.06	.52
600.00	2.25	129.51	599.90	-6.01	5.97	-6.01	8.47	135.22	.78
700.00	2.75	127.60	699.81	-8.72	9.38	-8.72	12.81	132.92	.51
800.00	2.75	127.67	799.69	-11.65	13.18	-11.65	17.59	131.48	.00
900.00	3.00	129.76	899.57	-14.79	17.09	-14.79	22.60	130.88	.27

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	2.50	126.82	999.45	-17.77	20.85	-17.77	27.40	130.45	.52
1100.00	1.00	107.87	1099.40	-19.35	23.43	-19.35	30.38	129.56	1.59
1200.00	1.25	104.95	1199.38	-19.90	25.31	-19.90	32.20	128.17	.26
1300.00	1.25	87.02	1299.36	-20.12	27.45	-20.12	34.04	126.24	.39
1400.00	.75	64.09	1399.35	-19.78	29.13	-19.78	35.21	124.18	.63
1500.00	1.00	33.17	1499.33	-18.76	30.20	-18.76	35.55	121.86	.53
1600.00	1.00	358.24	1599.32	-17.16	30.65	-17.16	35.13	119.25	.60
1700.00	1.50	294.33	1699.30	-15.75	29.43	-15.75	33.38	118.16	1.39
1800.00	1.50	299.41	1799.27	-14.57	27.10	-14.57	30.76	118.26	.13
1900.00	.75	249.77	1899.25	-14.15	25.34	-14.15	29.03	119.18	1.16
2000.00	1.00	221.84	1999.24	-15.03	24.15	-15.03	28.44	121.90	.49
2100.00	1.25	233.92	2099.22	-16.32	22.68	-16.32	27.94	125.74	.34
2200.00	1.25	241.00	2199.19	-17.49	20.85	-17.49	27.21	130.00	.15
2300.00	1.00	127.08	2299.18	-18.55	20.59	-18.55	27.71	132.01	1.89
2400.00	1.25	127.16	2399.16	-19.73	22.15	-19.73	29.67	131.69	.25
2500.00	.25	180.23	2499.16	-20.61	23.02	-20.61	30.90	131.83	1.12
2600.00	.25	315.30	2599.15	-20.67	22.87	-20.67	30.83	132.11	.46
2700.00	.25	301.38	2699.15	-20.40	22.53	-20.40	30.39	132.17	.06
2800.00	.25	270.45	2799.15	-20.29	22.12	-20.29	30.02	132.52	.13
2900.00	.25	303.53	2899.15	-20.17	21.72	-20.17	29.64	132.87	.14
3000.00	.25	319.57	2999.15	-19.88	21.40	-19.88	29.21	132.89	.07
3100.00	.50	28.58	3099.15	-19.33	21.47	-19.33	28.89	132.00	.47
3200.00	.75	9.60	3199.14	-18.30	21.79	-18.30	28.45	130.03	.32
3300.00	1.00	18.61	3299.13	-16.83	22.17	-16.83	27.84	127.20	.28
3400.00	1.00	32.62	3399.12	-15.27	22.92	-15.27	27.54	123.67	.24
3500.00	1.25	38.63	3499.10	-13.68	24.07	-13.68	27.69	119.61	.28
3600.00	1.25	43.64	3599.07	-12.04	25.51	-12.04	28.21	115.27	.11
3700.00	2.50	62.64	3699.02	-10.25	28.20	-10.25	30.00	109.97	1.38
3800.00	3.50	64.64	3798.88	-7.94	32.89	-7.94	33.84	103.57	1.01
3900.00	2.00	70.68	3898.76	-6.05	37.30	-6.05	37.79	99.22	1.53

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4000.00	1.50	92.71	3998.72	-5.54	40.25	-5.54	40.63	97.83	.83
4100.00	.75	94.72	4098.70	-5.65	42.21	-5.65	42.59	97.63	.75
4200.00	1.50	99.79	4198.68	-5.93	44.15	-5.93	44.55	97.65	.76
4300.00	3.25	100.82	4298.59	-6.68	48.23	-6.68	48.69	97.89	1.75
4400.00	2.75	108.83	4398.45	-7.99	53.28	-7.99	53.88	98.53	.65
4500.00	1.50	146.83	4498.38	-9.86	56.27	-9.86	57.13	99.94	1.82
4600.00	1.25	174.83	4598.36	-12.04	57.08	-12.04	58.34	101.91	.71
4700.00	1.25	173.85	4698.33	-14.21	57.30	-14.21	59.04	103.93	.02
4800.00	.50	215.86	4798.32	-15.65	57.16	-15.65	59.26	105.31	.94
4900.00	.25	189.87	4898.32	-16.22	56.87	-16.22	59.14	105.92	.30
5000.00	.50	239.88	4998.32	-16.65	56.45	-16.65	58.86	106.44	.39
5100.00	.25	229.90	5098.31	-17.01	55.91	-17.01	58.44	106.92	.26
5200.00	.25	282.91	5198.31	-17.10	55.53	-17.10	58.10	107.12	.22
5300.00	.50	257.92	5298.31	-17.15	54.89	-17.15	57.51	107.35	.29
5400.00	.50	266.94	5398.31	-17.26	54.03	-17.26	56.72	107.72	.08
5500.00	.25	229.95	5498.31	-17.43	53.42	-17.43	56.19	108.06	.34
5600.00	.25	282.96	5598.30	-17.52	53.04	-17.52	55.86	108.27	.22
5700.00	.25	247.98	5698.30	-17.55	52.63	-17.55	55.48	108.44	.15
5800.00	.00	.00	5798.30	-17.63	52.43	-17.63	55.31	108.59	.25
5900.00	.25	338.00	5898.30	-17.43	52.35	-17.43	55.17	108.42	.25
6000.00	.25	315.02	5998.30	-17.07	52.11	-17.07	54.84	108.14	.10
6100.00	.25	66.03	6098.30	-16.83	52.15	-16.83	54.80	107.88	.41
6200.00	.25	268.04	6198.30	-16.75	52.14	-16.75	54.76	107.81	.49
6300.00	.25	319.05	6298.30	-16.59	51.78	-16.59	54.37	107.77	.22
6400.00	.25	297.07	6398.30	-16.33	51.44	-16.33	53.97	107.61	.10
6500.00	.25	299.08	6498.30	-16.12	51.05	-16.12	53.54	107.53	.01
6600.00	.25	310.15	6598.30	-15.88	50.70	-15.88	53.12	107.39	.05
6700.00	.25	289.19	6698.30	-15.66	50.32	-15.66	52.70	107.29	.09
6800.00	.50	257.17	6798.29	-15.69	49.69	-15.69	52.11	107.52	.32
6900.00	.75	251.18	6898.29	-16.00	48.65	-16.00	51.21	108.20	.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7000.00	.50	275.20	6998.28	-16.17	47.59	-16.17	50.26	108.76	.36
7100.00	.50	249.21	7098.28	-16.28	46.75	-16.28	49.50	109.20	.22
7200.00	.75	245.22	7198.27	-16.71	45.75	-16.71	48.70	110.07	.25
7300.00	.50	251.24	7298.27	-17.13	44.74	-17.13	47.91	110.95	.26
7400.00	.25	249.25	7398.26	-17.34	44.12	-17.34	47.41	111.46	.25
7500.00	.25	217.26	7498.26	-17.60	43.79	-17.60	47.19	111.89	.14
7600.00	.25	170.28	7598.26	-17.98	43.69	-17.98	47.25	112.37	.20
7700.00	.50	193.29	7698.26	-18.62	43.63	-18.62	47.44	113.12	.29
7800.00	.75	211.30	7798.26	-19.61	43.19	-19.61	47.43	114.42	.32
7900.00	.50	212.31	7898.25	-20.54	42.61	-20.54	47.30	115.73	.25
8000.00	.25	179.33	7998.25	-21.12	42.38	-21.12	47.36	116.49	.32
8100.00	1.00	217.34	8098.24	-22.03	41.86	-22.03	47.30	117.76	.82
8200.00	1.00	218.35	8198.23	-23.41	40.79	-23.41	47.03	119.86	.02
8300.00	1.00	220.36	8298.21	-24.76	39.68	-24.76	46.77	121.97	.04
8400.00	1.00	206.38	8398.19	-26.21	38.73	-26.21	46.76	124.09	.24
8500.00	1.00	218.39	8498.18	-27.67	37.80	-27.67	46.85	126.21	.21
8600.00	1.00	219.40	8598.16	-29.03	36.70	-29.03	46.80	128.34	.02
8700.00	1.00	213.41	8698.15	-30.44	35.67	-30.44	46.89	130.47	.10
8800.00	1.25	215.42	8798.13	-32.05	34.56	-32.05	47.13	132.85	.25
8900.00	1.00	214.44	8898.11	-33.66	33.43	-33.66	47.44	135.20	.25
9000.00	1.00	210.45	8998.10	-35.13	32.49	-35.13	47.86	137.23	.07
9100.00	1.00	202.52	9098.08	-36.69	31.72	-36.69	48.50	139.16	.14
9200.00	1.00	197.53	9198.07	-38.33	31.12	-38.33	49.37	140.93	.09
9300.00	.75	199.55	9298.05	-39.78	30.64	-39.78	50.21	142.40	.25
9400.00	.75	200.56	9398.04	-41.01	30.19	-41.01	50.92	143.64	.01
9500.00	1.00	193.57	9498.03	-42.47	29.75	-42.47	51.86	144.98	.27
9600.00	1.25	217.58	9598.01	-44.18	28.88	-44.18	52.79	146.82	.53
9700.00	1.00	215.60	9697.99	-45.76	27.71	-45.76	53.49	148.80	.25
9800.00	1.25	195.61	9797.98	-47.52	26.91	-47.52	54.61	150.48	.46
9900.00	1.50	207.62	9897.95	-49.73	26.01	-49.73	56.12	152.39	.38

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
10000.00	1.25	218.63	9997.92	-51.74	24.72	-51.74	57.34	154.46	.36
10100.00	1.25	197.65	10097.90	-53.63	23.71	-53.63	58.64	156.15	.46
10200.00	1.00	202.66	10197.88	-55.47	23.04	-55.47	60.07	157.44	.27
10300.00	1.25	220.67	10297.86	-57.11	22.00	-57.11	61.20	158.93	.43
Last Survey Depth Recorded									
10400.00	1.50	194.69	10397.83	-59.20	20.95	-59.20	62.80	160.51	.66