

Job Number: MD-180454

State/Country: NM

Company: VF-Petroleum

Declination:

Lease/Well: DMT 7 Fee#2

Grid:

Location: Lea County NM

File name: C:\WINSERVE\WELLSF-1\2018WE-1\MD180454.SVY

Rig Name: CapStar #117

Date/Time: 14-Jul-18 / 12:52

RKB:

Curve Name:

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

Leam

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 90.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

HOBBS OCD
 SEP 07 2018
 RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	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
445.00	.40	22.60	445.00	1.43	.60	.60	1.55	22.60	.09
474.00	.60	97.00	474.00	1.51	.79	.79	1.70	27.53	2.16
501.00	.40	95.20	500.99	1.48	1.02	1.02	1.80	34.53	.74
531.00	.50	93.30	530.99	1.47	1.26	1.26	1.93	40.58	.34
561.00	.30	51.40	560.99	1.51	1.45	1.45	2.09	43.84	1.14
590.00	.50	80.80	589.99	1.58	1.63	1.63	2.27	46.01	.97
620.00	.60	93.30	619.99	1.59	1.92	1.92	2.49	50.39	.52
648.00	.10	79.70	647.99	1.58	2.09	2.09	2.62	52.84	1.80
678.00	.40	139.20	677.99	1.51	2.18	2.18	2.65	55.35	1.20
720.00	.20	268.00	719.99	1.39	2.21	2.21	2.61	57.68	1.30
763.00	.20	140.00	762.99	1.33	2.18	2.18	2.55	58.50	.84
805.00	.30	66.70	804.99	1.32	2.33	2.33	2.68	60.39	.74
848.00	.30	119.60	847.99	1.31	2.53	2.53	2.85	62.58	.62
976.00	.20	245.70	975.99	1.05	2.62	2.62	2.82	68.06	.35
1103.00	.30	256.90	1102.99	.89	2.09	2.09	2.27	67.00	.09
1230.00	1.00	83.80	1229.98	.93	2.87	2.87	3.02	72.01	1.02
1358.00	1.10	102.60	1357.96	.78	5.18	5.18	5.24	81.39	.28
1486.00	.70	68.70	1485.95	.80	7.10	7.10	7.15	83.58	.51
1614.00	.40	53.60	1613.94	1.35	8.19	8.19	8.30	80.65	.26
1742.00	.70	23.50	1741.93	2.33	8.86	8.86	9.17	75.26	.32
1870.00	.20	18.40	1869.93	3.26	9.25	9.25	9.80	70.58	.39
1998.00	.60	81.10	1997.93	3.58	9.98	9.98	10.60	70.28	.42
2125.00	.40	27.70	2124.92	4.07	10.84	10.84	11.58	69.42	.38
2253.00	.60	63.20	2252.92	4.77	11.65	11.65	12.59	67.73	.28

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2381.00	.70	168.20	2380.91	4.31	12.41	12.41	13.13	70.86	.81
2551.00	1.60	210.90	2550.88	1.25	11.40	11.40	11.47	83.73	.70
2722.00	1.00	193.30	2721.83	-2.25	9.83	9.83	10.08	102.88	.42
2895.00	.90	225.50	2894.81	-4.67	8.51	8.51	9.71	118.74	.31
3066.00	.80	239.90	3065.79	-6.21	6.52	6.52	9.01	133.59	.14
3236.00	.40	162.90	3235.79	-7.37	5.67	5.67	9.30	142.43	.48
3407.00	.50	235.30	3406.78	-8.37	5.23	5.23	9.87	147.98	.31
3577.00	.80	87.10	3576.78	-8.73	5.81	5.81	10.49	146.36	.74
3747.00	.70	118.80	3746.76	-9.17	7.90	7.90	12.11	139.24	.25
3918.00	.60	97.80	3917.75	-9.79	9.71	9.71	13.79	135.26	.15
4003.00	.40	5.00	4002.75	-9.56	10.17	10.17	13.96	133.22	.87
4131.00	.40	92.40	4130.75	-9.13	10.66	10.66	14.04	130.59	.43
4302.00	.40	89.20	4301.74	-9.15	11.85	11.85	14.97	127.67	.01
4472.00	.20	70.10	4471.74	-9.04	12.72	12.72	15.61	125.39	.13
4656.00	.40	155.70	4655.74	-9.52	13.29	13.29	16.35	125.60	.24
4728.00	.30	86.60	4727.74	-9.73	13.58	13.58	16.71	125.63	.56
4899.00	.40	81.90	4898.74	-9.62	14.62	14.62	17.50	123.35	.06
5069.00	.40	317.60	5068.73	-9.10	14.81	14.81	17.38	121.58	.42
5239.00	.40	262.00	5238.73	-8.75	13.82	13.82	16.35	122.33	.22
5408.00	.30	340.60	5407.73	-8.41	13.09	13.09	15.56	122.72	.27
5579.00	.30	342.40	5578.73	-7.56	12.80	12.80	14.87	120.56	.01
5750.00	.40	9.30	5749.72	-6.55	12.77	12.77	14.35	117.15	.11
5921.00	.40	31.40	5920.72	-5.45	13.17	13.17	14.25	112.47	.09
6090.00	.50	304.70	6089.71	-4.52	12.87	12.87	13.65	109.36	.37
6261.00	.40	274.20	6260.71	-4.06	11.67	11.67	12.35	109.17	.15
6432.00	.40	272.00	6431.71	-3.99	10.47	10.47	11.21	110.86	.01
6602.00	.40	257.50	6601.70	-4.10	9.30	9.30	10.16	113.78	.06
6773.00	1.00	248.50	6772.69	-4.77	7.33	7.33	8.75	123.08	.36
6943.00	1.10	268.90	6942.66	-5.35	4.32	4.32	6.87	141.09	.23
7114.00	1.00	280.70	7113.63	-5.10	1.21	1.21	5.25	166.66	.14
7199.00	1.10	291.40	7198.62	-4.67	-.28	-.28	4.68	183.41	.26
7242.00	1.10	297.40	7241.61	-4.33	-1.03	-1.03	4.45	193.37	.27
7284.00	.90	316.00	7283.60	-3.91	-1.62	-1.62	4.23	202.47	.90
7327.00	1.00	342.70	7326.60	-3.30	-1.96	-1.96	3.84	210.70	1.04
7453.00	1.00	357.10	7452.58	-1.16	-2.34	-2.34	2.61	243.75	.20
7496.00	.80	359.90	7495.57	-.48	-2.36	-2.36	2.41	258.49	.48
7539.00	.80	3.30	7538.57	.12	-2.35	-2.35	2.35	272.89	.11
7583.00	1.00	42.80	7582.56	.71	-2.07	-2.07	2.19	288.87	1.45
7711.00	1.00	41.10	7710.54	2.37	-.58	-.58	2.44	346.34	.02
7796.00	1.30	77.30	7795.53	3.14	.85	.85	3.25	15.20	.91
7882.00	1.30	90.80	7881.51	3.34	2.78	2.78	4.35	39.77	.36
8010.00	1.20	80.10	8009.48	3.55	5.55	5.55	6.59	57.41	.20
8180.00	1.20	79.20	8179.44	4.19	9.05	9.05	9.98	65.17	.01
8350.00	1.20	76.90	8349.40	4.93	12.54	12.54	13.47	68.55	.03
8521.00	1.10	65.00	8520.37	6.03	15.77	15.77	16.88	69.08	.15

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
8692.00	.40	20.50	8691.35	7.28	17.46	17.46	18.92	67.37	.50
8777.00	.40	273.30	8776.35	7.57	17.27	17.27	18.86	66.32	.76
8905.00	.30	263.80	8904.35	7.56	16.49	16.49	18.14	65.36	.09
9033.00	.50	263.10	9032.35	7.46	15.61	15.61	17.30	64.45	.16
9161.00	.40	287.10	9160.34	7.52	14.62	14.62	16.45	62.77	.16
9203.00	.50	262.00	9202.34	7.54	14.30	14.30	16.17	62.20	.52
9288.00	.70	270.30	9287.34	7.49	13.42	13.42	15.37	60.82	.26
9416.00	.80	264.10	9415.32	7.41	11.75	11.75	13.89	57.77	.10
9459.00	.70	269.20	9458.32	7.37	11.18	11.18	13.39	56.61	.28
9566.00	.80	264.30	9565.31	7.29	9.79	9.79	12.20	53.33	.11