

30-015-37916



Job Number: 1010460

Company: Chesapeake Operating Inc

Lease/Well: Cooksey 26 Federal Com 1H

Location: Eddy County, NM

Rig Name: Western 6

RKB: 3088'

G.L. or M.S.L.: 3063 SL: X - 595033.51 Y - 403263.48 (NAD 83)

State/Country: NM

Declination: 7.94301

Grid: -0.09

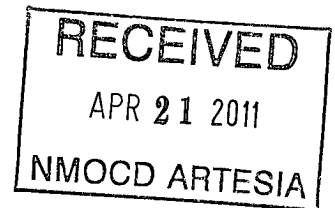
File name: C:\101046-2\COOK26.SVY

Date/Time: 21-Aug-10 / 08:54

Curve Name: Cooksey 26 Federal Com 1H Surveys

Cooksey 26 Federal Com 1H Surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 178.01
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead



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
Tie In From Gyros									
5805.00	1.67	187.90	5803.79	-38.88	30.14	39.90	49.19	142.22	.00
First Nevis MWD Surveys									
5864.00	3.60	185.80	5862.72	-41.57	29.83	42.59	51.17	144.34	3.27
5896.00	4.40	174.90	5894.65	-43.80	29.84	44.81	53.00	145.73	3.44
5926.00	7.40	171.10	5924.48	-46.85	30.24	47.87	55.77	147.16	10.08
5957.00	10.80	170.00	5955.09	-51.69	31.06	52.73	60.30	149.00	10.98
5989.00	15.30	169.80	5986.26	-58.80	32.33	59.88	67.10	151.20	14.06
6021.00	19.70	170.60	6016.77	-68.28	33.96	69.42	76.26	153.56	13.77
6052.00	24.40	171.90	6045.49	-79.78	35.71	80.97	87.41	155.89	15.24
6084.00	29.10	173.70	6074.06	-94.07	37.50	95.31	101.26	158.27	14.90
6116.00	33.30	173.60	6101.43	-110.54	39.33	111.84	117.33	160.41	13.13
6148.00	37.90	173.60	6127.44	-129.04	41.41	130.40	135.52	162.21	14.38
6179.00	42.30	173.50	6151.14	-148.88	43.65	150.31	155.15	163.66	14.20
6211.00	46.50	173.10	6174.00	-171.11	46.27	172.61	177.26	164.87	13.15
6242.00	50.50	172.60	6194.54	-194.14	49.16	195.73	200.27	165.79	12.96
6274.00	54.50	171.90	6214.02	-219.29	52.58	220.99	225.51	166.52	12.62
6306.00	58.50	171.50	6231.67	-245.69	56.44	247.50	252.09	167.06	12.54
6337.00	62.50	171.30	6246.94	-272.36	60.47	274.30	279.00	167.48	12.92
6368.00	67.40	171.20	6260.06	-300.11	64.74	302.18	307.02	167.83	15.81
6400.00	72.00	170.70	6271.16	-329.74	69.47	331.96	336.98	168.10	14.45
6432.00	76.70	171.30	6279.79	-360.17	74.28	362.53	367.75	168.35	14.80
6464.00	81.80	172.60	6285.75	-391.29	78.68	393.78	399.12	168.63	16.43

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	
6485.00	85.40	172.50	6288.09	-411.98	81.39	414.55	419.94	168.83	17.15
6516.00	89.20	174.00	6289.55	-442.72	85.02	445.41	450.81	169.13	13.18
6579.00	89.90	173.70	6290.05	-505.36	91.77	508.24	513.62	169.71	1.21
6673.00	92.00	174.50	6288.49	-598.84	101.43	602.00	607.37	170.39	2.39
6767.00	91.10	176.10	6285.95	-692.49	109.13	695.86	701.03	171.04	1.95
6860.00	90.60	177.60	6284.57	-785.33	114.24	788.82	793.60	171.72	1.70
6955.00	89.50	179.30	6284.49	-880.29	116.81	883.82	888.01	172.44	2.13
7050.00	90.90	179.30	6284.15	-975.28	117.97	978.79	982.39	173.10	1.47
7145.00	90.40	178.50	6283.08	-1070.26	119.80	1073.77	1076.94	173.61	.99
7239.00	90.50	179.60	6282.34	-1164.24	121.36	1167.75	1170.55	174.05	1.18
7334.00	89.80	178.90	6282.09	-1259.23	122.60	1262.73	1265.18	174.44	1.04
7426.00	91.10	180.30	6281.37	-1351.22	123.24	1354.69	1356.83	174.79	2.08
7517.00	90.70	180.00	6279.94	-1442.21	123.00	1445.61	1447.44	175.13	.55
7610.00	90.80	180.00	6278.72	-1535.20	123.00	1538.55	1540.12	175.42	.11
7700.00	91.30	181.10	6277.07	-1625.18	122.14	1628.44	1629.76	175.70	1.34
7795.00	90.50	180.50	6275.58	-1720.16	120.81	1723.32	1724.40	175.98	1.05
7887.00	90.60	180.90	6274.70	-1812.15	119.69	1815.21	1816.09	176.22	.45
7981.00	90.10	180.20	6274.12	-1906.14	118.79	1909.11	1909.84	176.43	.92
8072.00	89.10	180.00	6274.76	-1997.14	118.63	2000.05	2000.66	176.60	1.12
8165.00	88.60	179.60	6276.62	-2090.12	118.95	2092.99	2093.50	176.74	.69
8257.00	88.80	180.50	6278.71	-2182.09	118.87	2184.90	2185.33	176.88	1.00
8353.00	91.30	182.00	6278.63	-2278.06	116.78	2280.74	2281.05	177.07	3.04
8446.00	91.50	181.60	6276.35	-2370.98	113.86	2373.51	2373.72	177.25	.48
8539.00	92.10	181.40	6273.43	-2463.91	111.42	2466.29	2466.42	177.41	.68
8634.00	90.40	180.20	6271.36	-2558.87	110.10	2561.15	2561.24	177.54	2.19
8723.00	90.90	179.80	6270.35	-2647.86	110.10	2650.09	2650.15	177.62	.72
8812.00	89.30	179.90	6270.20	-2736.86	110.33	2739.04	2739.08	177.69	1.80
8906.00	88.80	179.60	6271.75	-2830.85	110.74	2832.98	2833.01	177.76	.62
8997.00	88.50	178.50	6273.90	-2921.81	112.25	2923.94	2923.96	177.80	1.25
9092.00	89.70	178.00	6275.39	-3016.75	115.15	3018.93	3018.94	177.81	1.37
9186.00	89.40	178.50	6276.13	-3110.70	118.02	3112.92	3112.94	177.83	.62
9281.00	90.60	178.30	6276.13	-3205.66	120.67	3207.92	3207.93	177.84	1.28
9375.00	90.10	178.10	6275.55	-3299.61	123.63	3301.92	3301.93	177.85	.57
9470.00	90.90	178.50	6274.73	-3394.57	126.44	3396.91	3396.92	177.87	.94
9562.00	91.40	177.60	6272.88	-3486.49	129.57	3488.89	3488.90	177.87	1.12
9654.00	90.90	177.50	6271.03	-3578.39	133.51	3580.87	3580.88	177.86	.55
9749.00	91.10	176.90	6269.37	-3673.26	138.15	3675.84	3675.86	177.85	.67
9843.00	91.20	176.90	6267.49	-3767.11	143.23	3769.81	3769.83	177.82	.11
9934.00	90.80	177.20	6265.90	-3857.97	147.91	3860.78	3860.81	177.80	.55
10026.00	90.20	178.80	6265.10	-3949.91	151.12	3952.77	3952.80	177.81	1.86
10120.00	90.60	178.50	6264.44	-4043.88	153.34	4046.77	4046.79	177.83	.53
10213.00	90.20	178.20	6263.79	-4136.84	156.01	4139.76	4139.78	177.84	.54
10303.00	89.20	177.70	6264.26	-4226.78	159.23	4229.76	4229.78	177.84	1.24
10398.00	88.70	177.60	6266.00	-4321.68	163.13	4324.74	4324.76	177.84	.54
10493.00	88.60	178.00	6268.24	-4416.59	166.77	4419.71	4419.73	177.84	.43

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	
10589.00	90.90	178.90	6268.66	-4512.54	169.37	4515.70	4515.72	177.85	2.57
10683.00	91.00	178.20	6267.10	-4606.50	171.75	4609.68	4609.70	177.86	.75
10774.00	90.10	177.80	6266.23	-4697.44	174.92	4700.68	4700.69	177.87	1.08
10868.00	89.30	177.90	6266.72	-4791.37	178.45	4794.68	4794.69	177.87	.86
Last Nevis MWD Surveys									
10962.00	88.60	178.20	6268.44	-4885.30	181.65	4888.66	4888.67	177.87	.81
Projection to TD									
11025.00	88.60	178.20	6269.98	-4948.25	183.63	4951.64	4951.66	177.87	.00