



27 Aug 2010

State of New Mexico
Oil Conservation Division
1000 Rio Brazos Road
Aztec N. M. 87410

RECEIVED

SEP 03 2010

HOBBSOCD

Attention: To whom it may concern.

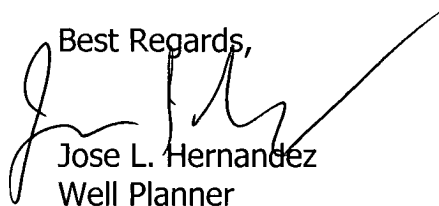
Re: Chesapeake Operating Inc.
Cooksey 26 Federal Com 1H
Eddy County, NM
API #30-015-37916
Job No. 1010460

Enclosed please find the survey certification, and the original and one copy of the survey performed on the above referenced well by Nevis Energy Services Houston, Inc. (P-5 No. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Hung Ngo	1H	5864	10962	08/11/10	08/20/10	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,



Jose L. Hernandez
Well Planner

Certified mail receipt number: _____

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name COOKSEY "26" FEDERAL COM	Well Number 1H
OGRID No.	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3063'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	25 S	27 E		150	SOUTH	2330	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	26	25 S	27 E		330	SOUTH	2270	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION Lat - N 32.10854623° Long - W 104.1599151° NMSPCE- N 403263.476 E 595033.505 (NAD-83)		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____
PROPOSED BOTTOM HOLE LOCATION Lat - N 32.09487920° Long - W 104.1593770° NMSPCE- N 398297.262 E 595206.322 (NAD-83)		SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed _____ Signature & Seal of Professional Surveyor _____ Certificate No. Gary L. Jones 7977 BASIN SURVEYS



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

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
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	C L O S U R E		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



NEVIS
ENERGY SERVICES INC.
1805 Brittmoore Rd.
Houston, Texas 77043
1-800-809-9819
www.nevisenergy.com

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

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
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	C L O S U R E		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



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

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
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	C L O S U R E		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	CLOSURE		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



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	C L O S U R E		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

NEVIS ENERGY SERVICES INC. SURVEY DATA CERTIFICATION



NEVIS JOB NUMBER 1010460

OPERATOR Chesapeake Operating Inc

WELL NAME Cooksey 26 Federal Com 1H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-37916

PROPOSED DIRECTION 178.01

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
5,805 ft	5,803.79 ft	1.67	187.9	-38.88	30.14	GYRODATA GYRO

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
11-Aug-10	5,864 ft	3.6	185.8

SURVEY INSTRUMENT
TYPE
NEVIS MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
02-Aug-10	10,962 ft	88.6	178.2

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

20-Aug-10

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
20-Aug-10	11,025 ft	88.6	178.2

Hung Ngo

PRINT YOUR NAME ABOVE

Hung Ngo

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.86
DECLINATION OR GRID	Grid -0.09

20-Aug-10

TODAY'S DATE

MWD SUPERVISOR 1 Hung Ngo

DIRECTIONAL DRILLER 1

Ron Vestal

MWD SUPERVISOR 2 Ron Alexis

DIRECTIONAL DRILLER 2

Dustin Taylor

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)