

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

Month - Year
APR - 5 2007
OCD-ARTESIA, NM

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other: _____

2. Name of Operator
CHESAPEAKE OPERATING, INC.

ATTN: LINDA GOOD

3. Address P.O. BOX 18496
OKLAHOMA CITY, OK 73154-0496

3a. Phone No. (include area code)
405-767-4275

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

660' FNL & 1980' FEL, NWNE

At surface

SAME

At top prod. interval reported below

At total depth SAME

14. Date Spudded
10/06/2006

15. Date T.D. Reached
01/09/2007

16. Date Completed 03/06/2007
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
NMLC-064637

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
PENDING

8. Lease Name and Well No.
Henshaw 23 Federal 1

9. AFI Well No.
30-015-34448

10. Field and Pool or Exploratory
Wildcat; Wolfcamp (gas)

11. Sec., T., R., M., on Block and
Survey or Area 23-16S-30E

12. County or Parish

13. State

Eddy County

NM

18. Total Depth: MD 12,800'
TVD

19. Plug Back T.D.: MD 12,533'
TVD

20. Depth Bridge Plug Set: MD
TVD

17. Elevations (DF, RKB, RT, GL)*
3828 GR / 3848.5 DF / 3849.5 KB

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

DSN/SDL DLL/MGRD SDL/DSN/CSNG DLL/MGRD

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8	48#	0	342'		530 1100		275' 0	
11	8 5/8	32#	0	3800'		1025		Surface	
7 7/8	5 1/2	20#	0	12,620'		1870		3300 Calc	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8	8894							

25. Producing Intervals

Formation	Top	Bottom	Perforation Interval	Size	No. Holes	Perf. Status
A)			12,620' - 12,800'		Open Hole	CBP @ 12,614'
B)			12,570' - 12,610'		81	CBP @ 12,550'
C)			12,505' - 12,515'		41	CBP @ 12,460' w/1 sx cmt
D) Wolfcamp	8713'	8885'	8713' - 8885'		56	

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
12,620' - 12,800'	Acid w/2900 gal 15% NeFe. Re-acid w/1300 gal 15% NeFe HCL & 3000 gal 20% Ultragel
12,570' - 12,610'	Spot 150 gal 15% NeFe. Acid w/1850 gal 15% NeFe + 90 ball sealers
12,505' - 12,515'	Spot 200 gal 7 1/2% HCL. Acid Simpson Sd w/1000 additional gal 7 1/2% HCL + 45 ball sealers, flush w/73 bbl 2% KCL
8713' - 8885'	Spot 200 gal 15% NeFe. Acid w/additional 1800 gal 15% NeFe + 65 ball sealers. Acid w/7500 gal 20% Ultragel

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
3/8/07	3/27/07	24	→	51	222	15	40.8		PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→	51	222	15	4352.9	PRODUCING	

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
APR 2 2007
FREDERICK WRIGHT
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
	0' 3004'	3004' 7790'	Sand w/Anhydrite w/some Dolomite and Shale Dolomite w/some Sand, Chert and Shale	Yates Seven Rivers	1470' 1716'
	7790' 9510'	9510' 10060'	Lime w/some Sand, Chert and Shale Shale and Limestone	San Andres Glorieta	3004' 4452'
	10060' 11012'	11012' 11466'	Limestone and Shale Limestone w/some Shale and minor Sand	Tubb Abo	5714' 6370'
	11466' 11484'	11484' 12484'	Dark Brown Shale Dolomite, Limestone and Chert	Wolfcamp Strawn	7686' 10063'
	12484' 12565'	12565' TD	Shale w/some Limestone, Chert and Sand Dolomite w/some Limestone and Sand	Atoka Morrow	10310' 10620'
				Mississippian Woodford	10668' 11466'
				Devonian Ordovician	11484' 12484'

32. Additional remarks (include plugging procedure):

Drilled to 9366' MD laid 2 cmt plugs w/300 sx cmt each, kicked-off sidetrack @ 7800', sidetracked around fish (BHA #8 left in old hole below sidetrack depth of 7800')

Directional Survey: Sidetracked to go around fish left in hole.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

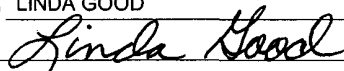
- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) LINDA GOOD

Title FEDERAL REGULATORY PERMITTING AGENT

Signature



Date 03/28/2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

**Railroad Commission Of Texas
Oil And Gas Division**

Form W-12

INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report)		6. RRC District
1. FIELD NAME (as per RRC Records or Wildcat)		7. RRC Lease Number (Oil Completions Only)
2. LEASE NAME Henshaw 23 Federal 1		8. Well Number
3. OPERATOR Chesapeake Operating Inc.		9. RRC Identification Number (Gas Completions Only)
4. ADDRESS PO Box 1050, Midland, OK 79702-8050		10. County Eddy
5. LOCATION (Section, Block, and Survey)		

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	13. Angle of Inclination (Degrees)	14. Displacement per 100 feet (Sine of Angle x 100)	15. Course Displacement (Feet)	Accumulative Displacement (Feet)
430	430	2.10	3.66	15.76	15.76
1,275	845	0.80	1.40	11.80	27.55
2,121	846	0.20	0.35	2.95	30.51
2,937	816	0.70	1.22	9.97	40.48
3,469	532	0.70	1.22	6.50	46.98
4,301	832	0.70	1.22	10.16	57.14
5,273	972	0.70	1.22	11.87	69.02
6,240	967	0.30	0.52	5.06	74.08
7,172	932	3.30	5.76	53.65	127.73
8,144	972	2.00	3.49	33.92	161.65
8,404	260	1.00	1.75	4.54	166.19
9,165	761	0.90	1.57	11.95	178.14
10,137	972	0.50	0.87	8.48	186.62
10,827	690	2.50	4.36	30.10	216.72
12,030	1,203	3.00	5.23	62.96	279.68
-	(12,030)		-	-	279.68

17. Is any information shown on the reverse side of this form? ☐ Yes ☒ No

18. Accumulative total displacement of well bore at total depth of 12,030 feet = feet 279.68

*19. Inclination measurements were made in ☐ Tubing ☐ Casing ☐ Open Hole ☒ Drill Pipe

20. Distance from surface location of well to the nearest lease line..... Feet

21. Minimum distance to lease line as prescribed by field rules..... Feet

22. Was the subject well at any time intentionally deviated from vertical in any matter whatsoever?

(If the answer to the above question is "yes" attach written explanation of the circumstances.)

Inclination Data Certification I declare under penalties prescribed in Sec. 91.143, Texas National Resource Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks(*) by the item numbers on this form.	Inclination Data Certification I declare under penalties prescribed in Sec. 91.143, Texas National Resource Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks(*) by the item numbers on this form.
<u>1/16/07</u>	
Signature of Authorized Representative Trent B. Latshaw, President Name of Person and Title Latshaw Drilling Company, LLC Name of Company Telephone: 918-355-4380	Signature of Authorized Representative Name of Person and Title Operator Telephone:

Railroad Commission Use Only:

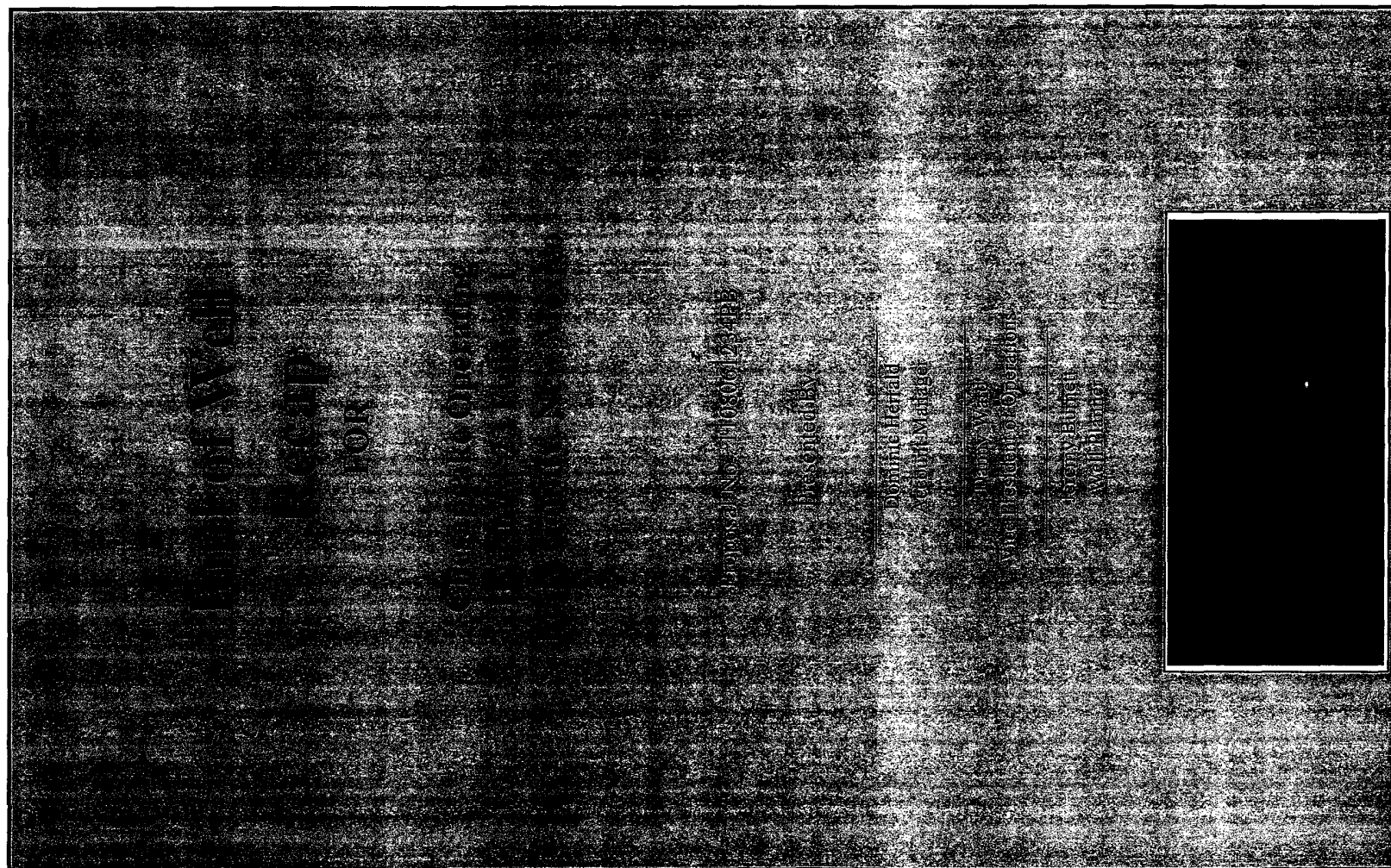
Approved By: _____ Title: _____ Date: _____

**Designates items certified by the company that conducted the inclination surveys.*

REC'D JAN 22 2007 *ly*

QUANTUM

DRILLING MOTORS





Survey Reports

Job Number:	State/Country:
Company: Chesapeake Operating	Declination:
Lease/Well: Henshaw 23 FED 1	Grid: Grid
Location:	File name:
Rig Name:	Date/Time:
RKB: 25	Curve Name:
G.L. or M.S.L.: GL	

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 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		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7612.00	2.90	314.30	7610.00	38.80	46.40	38.80	60.48	50.10	.00
7746.00	2.70	106.50	7743.94	40.27	47.00	40.27	61.89	49.41	4.06
7776.00	3.00	109.30	7773.90	39.81	48.42	39.81	62.68	50.57	1.10
7807.00	3.90	118.20	7804.85	39.05	50.11	39.05	63.53	52.08	3.37
7838.00	5.50	129.60	7835.74	37.60	52.19	37.60	64.32	54.23	5.95
7869.00	7.10	132.90	7866.55	35.35	54.74	35.35	65.16	57.15	5.29
7901.00	7.20	131.10	7898.31	32.68	57.70	32.68	66.31	60.47	.77
7932.00	7.30	133.90	7929.06	30.04	60.58	30.04	67.62	63.62	1.18
7964.00	7.20	132.70	7960.80	27.27	63.52	27.27	69.12	66.76	.57
8027.00	4.90	130.20	8023.45	22.86	68.47	22.86	72.19	71.54	3.67
8058.00	4.90	132.10	8054.33	21.12	70.47	21.12	73.56	73.32	.52
8089.00	5.50	131.50	8085.21	19.24	72.56	19.24	75.07	75.15	1.94
8121.00	5.60	132.80	8117.06	17.17	74.86	17.17	76.80	77.08	.50
8152.00	5.80	136.30	8147.90	15.01	77.05	15.01	78.50	78.98	1.29
8215.00	5.70	135.80	8210.59	10.46	81.43	10.46	82.10	82.68	.18
8277.00	5.50	139.50	8272.29	6.00	85.51	6.00	85.72	85.99	.67
8340.00	5.30	138.10	8335.01	1.53	89.41	1.53	89.42	89.02	.38
8402.00	5.30	143.10	8396.75	-2.89	93.04	-2.89	93.09	91.78	.74
8465.00	5.20	141.00	8459.48	-7.43	96.59	-7.43	96.87	94.40	.34
8528.00	5.10	139.20	8522.23	-11.77	100.21	-11.77	100.90	96.70	.30
8590.00	4.70	128.30	8584.00	-15.43	104.01	-15.43	105.14	98.44	1.63
8622.00	4.90	129.30	8615.89	-17.11	106.09	-17.11	107.46	99.16	.68
8653.00	4.40	137.30	8646.79	-18.82	107.92	-18.82	109.55	99.89	2.64
8684.00	4.00	145.40	8677.70	-20.59	109.34	-20.59	111.26	100.66	2.30
8750.00	3.80	149.20	8743.55	-24.36	111.77	-24.36	114.39	102.30	.49
8814.00	3.40	147.50	8807.43	-27.78	113.88	-27.78	117.22	103.71	.65

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	
8878.00	3.40	142.00	8871.31	-30.88	116.06	-30.88	120.10	104.90	.51
8942.00	3.40	141.50	8935.20	-33.86	118.41	-33.86	123.16	105.96	.05
9006.00	3.20	148.20	8999.09	-36.86	120.54	-36.86	126.05	107.00	.68
9068.00	3.40	140.00	9060.99	-39.74	122.63	-39.74	128.91	107.96	.83
9131.00	3.00	144.50	9123.89	-42.51	124.79	-42.51	131.83	108.81	.75
9163.00	3.30	139.60	9155.85	-43.90	125.87	-43.90	133.31	109.23	1.26
Last MWD Survey									
9179.00	3.20	145.30	9171.82	-44.62	126.42	-44.62	134.07	109.44	2.11

Job Number:	State/Country:
Company: Chesapeake Operating	Declination:
Lease/Well: Henshaw 23 FED 1	Grid: Grid
Location:	File name:
Rig Name:	Date/Time:
RKB: 25	Curve Name:
G.L. or M.S.L.: GL	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
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>
7612.00	2.90	314.30	7610.00	38.80	46.40	38.80	60.48	50.10	.00
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7776.00	3.00	109.30	7773.90	39.81	48.42	39.81	62.68	50.57	1.10
7807.00	3.90	118.20	7804.85	39.05	50.11	39.05	63.53	52.08	3.37
7838.00	5.50	129.60	7835.74	37.60	52.19	37.60	64.32	54.23	5.95
7869.00	7.10	132.90	7866.55	35.35	54.74	35.35	65.16	57.15	5.29
7901.00	7.20	131.10	7898.31	32.68	57.70	32.68	66.31	60.47	.77
7932.00	7.30	133.90	7929.06	30.04	60.58	30.04	67.62	63.62	1.18
7964.00	7.20	132.70	7960.80	27.27	63.52	27.27	69.12	66.76	.57
8027.00	4.90	130.20	8023.45	22.86	68.47	22.86	72.19	71.54	3.67
8058.00	4.90	132.10	8054.33	21.12	70.47	21.12	73.56	73.32	.52
8089.00	5.50	131.50	8085.21	19.24	72.56	19.24	75.07	75.15	1.94
8121.00	5.60	132.80	8117.06	17.17	74.86	17.17	76.80	77.08	.50
8152.00	5.80	136.30	8147.90	15.01	77.05	15.01	78.50	78.98	1.29
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8340.00	5.30	138.10	8335.01	1.53	89.41	1.53	89.42	89.02	.38
8402.00	5.30	143.10	8396.75	-2.89	93.04	-2.89	93.09	91.78	.74
8465.00	5.20	141.00	8459.48	-7.43	96.59	-7.43	96.87	94.40	.34
8528.00	5.10	139.20	8522.23	-11.77	100.21	-11.77	100.90	96.70	.30
8590.00	4.70	128.30	8584.00	-15.43	104.01	-15.43	105.14	98.44	1.63
8622.00	4.90	129.30	8615.89	-17.11	106.09	-17.11	107.46	99.16	.68
8653.00	4.40	137.30	8646.79	-18.82	107.92	-18.82	109.55	99.89	2.64
8684.00	4.00	145.40	8677.70	-20.59	109.34	-20.59	111.26	100.66	2.30
8750.00	3.80	149.20	8743.55	-24.36	111.77	-24.36	114.39	102.30	.49
8814.00	3.40	147.50	8807.43	-27.78	113.88	-27.78	117.22	103.71	.65

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	
8878.00	3.40	142.00	8871.31	-30.88	116.06	-30.88	120.10	104.90	.51
8942.00	3.40	141.50	8935.20	-33.86	118.41	-33.86	123.16	105.96	.05
9006.00	3.20	148.20	8999.09	-36.86	120.54	-36.86	126.05	107.00	.68
9068.00	3.40	140.00	9060.99	-39.74	122.63	-39.74	128.91	107.96	.83
9131.00	3.00	144.50	9123.89	-42.51	124.79	-42.51	131.83	108.81	.75
9163.00	3.30	139.60	9155.85	-43.90	125.87	-43.90	133.31	109.23	1.26
Last MWD Survey									
9179.00	3.20	145.30	9171.82	-44.62	126.42	-44.62	134.07	109.44	2.11

To the best of my knowledge the surveys listed above, from 7612.00' MD to 9179.00' MD are accurate and true surveys.

Kellen Bourque
Quantum Drilling Motors

Signature_____

Date:_____

Directional Survey Report

Chesapeake Operating

Well ID: 611906

Well Name: Henshaw 23 Fed Com 1

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Coordinates		Closure	Vertical Section	Dog Leg Severity
					N-S	E-W			
Well Bore: Original Well Bore				Plane of Vertical Section: 0.0 degrees					
** Tieln	0.0	0.00	0.0	0.0				0.0	
INC	242.0	1.00	0.0	242.0	N 2.1		2.1	2.1	0.413
MSS	430.0	2.10	20.3	429.9	N 7.0	E 1.2	7.1	7.0	0.645
MSS	560.0	1.60	35.0	559.8	N 10.7	E 3.1	11.1	10.7	0.527
MSS	745.0	1.10	301.8	744.8	N 13.8	E 3.0	14.1	13.8	1.077
MSS	1240.0	0.80	46.6	1239.8	N 18.6	E 1.5	18.7	18.6	0.306
MSS	1712.0	0.50	27.0	1711.7	N 22.7	E 4.8	23.2	22.7	0.078
MSS	2121.0	0.20	189.5	2120.7	N 23.6	E 5.5	24.3	23.6	0.170
MSS	2528.0	0.50	289.3	2527.7	N 23.5	E 3.7	23.8	23.5	0.140
MSS	2997.0	0.70	334.1	2996.7	N 26.8	E 0.6	26.8	26.8	0.105
MSS	3475.0	0.70	308.9	3474.7	N 31.2	W 3.0	31.4	31.2	0.064
MSS	3820.0	0.75	307.9	3819.6	N 33.9	W 6.4	34.5	33.9	0.015
MSS	4310.0	0.70	308.9	4309.6	N 37.8	W 11.3	39.4	37.8	0.011
MSS	4801.0	0.50	268.2	4800.6	N 39.6	W 15.8	42.6	39.6	0.093
MSS	5261.0	0.70	273.0	5260.6	N 39.7	W 20.6	44.7	39.7	0.045
MSS	5723.0	0.70	268.0	5722.5	N 39.7	W 26.2	47.6	39.7	0.013
MSS	5770.0	0.70	303.2	5769.5	N 39.9	W 26.7	48.0	39.9	0.901
MSS	6240.0	0.30	330.1	6239.5	N 42.5	W 29.7	51.9	42.5	0.096
MSS	6740.0	1.60	121.9	6739.4	N 40.0	W 24.5	46.9	40.0	0.374
MSS	6984.0	1.60	125.6	6983.4	N 36.2	W 18.8	40.8	36.2	0.042
MSS	7172.0	3.30	256.7	7171.3	N 33.4	W 21.9	40.0	33.4	2.402
MSS	7306.0	3.70	288.9	7305.0	N 33.9	W 29.8	45.1	33.9	1.476
MSS	7392.0	3.40	272.8	7390.9	N 34.9	W 35.0	49.4	34.9	1.207
MSS	7518.0	3.30	288.3	7516.6	N 36.3	W 42.1	55.6	36.3	0.721
** Tieln	7612.0	2.90	314.3	7612.0	N 38.8	E 46.4		38.8	
MWD	7746.0	2.70	106.5	7745.9	N 40.3	E 47.0	61.9	40.3	4.057
MWD	7776.0	3.00	109.3	7775.9	N 39.8	E 48.4	62.7	39.8	1.102

Directional Survey Report

Chesapeake Operating

Well ID: 611906

Well Name: Henshaw 23 Fed Com 1

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Coordinates		Closure	Vertical Section	Dog Leg Severity
					N-S	E-W			
Well Bore: Sidetrack 1					Plane of Vertical Section: 0.0 degrees				
Kick Off Point:		7800.0 ft	from Well Bore: Original Well Bore						
** Tieln	7807.0	3.90	118.2	7804.9	N 39.1	E 50.1	63.5	39.1	
MWD	7838.0	5.50	129.6	7835.7	N 37.6	E 52.2	64.3	37.6	5.952
MWD	7869.0	7.10	132.4	7866.6	N 35.4	E 54.7	65.2	35.4	5.254
MWD	7901.0	7.20	131.3	7898.3	N 32.7	E 57.7	66.3	32.7	0.530
MWD	7932.0	7.30	133.9	7929.1	N 30.1	E 60.6	67.6	30.1	1.106
MWD	7964.0	7.20	132.7	7960.8	N 27.3	E 63.5	69.1	27.3	0.567
MWD	8027.0	4.90	130.2	8023.4	N 22.9	E 68.5	72.2	22.9	3.674
MWD	8059.0	4.90	132.1	8055.3	N 21.1	E 70.5	73.6	21.1	0.507
MWD	8089.0	5.50	131.5	8085.2	N 19.3	E 72.6	75.1	19.3	2.008
MWD	8121.0	5.60	132.8	8117.1	N 17.2	E 74.9	76.8	17.2	0.502
MWD	8152.0	5.80	136.3	8147.9	N 15.0	E 77.1	78.5	15.0	1.293
MWD	8215.0	5.70	135.8	8210.6	N 10.5	E 81.4	82.1	10.5	0.178
MWD	8277.0	5.50	139.5	8272.3	N 6.0	E 85.5	85.7	6.0	0.666
MWD	8340.0	5.30	138.1	8335.0	N 1.6	E 89.4	89.4	1.6	0.380
MWD	8402.0	5.30	143.1	8396.7	S 2.9	E 93.0	93.1	-2.9	0.745
MWD	8465.0	5.20	141.0	8459.5	S 7.4	E 96.6	96.9	-7.4	0.344
MWD	8528.0	5.10	139.2	8522.2	S 11.7	E 100.2	100.9	-11.7	0.302
MWD	8590.0	4.70	128.3	8584.0	S 15.4	E 104.0	105.1	-15.4	1.631
MWD	8622.0	4.90	129.3	8615.9	S 17.1	E 106.1	107.5	-17.1	0.677
MWD	8653.0	4.40	137.3	8646.8	S 18.8	E 107.9	109.6	-18.8	2.638
MWD	8684.0	4.00	145.4	8677.7	S 20.6	E 109.4	111.3	-20.6	2.305
MWD	8750.0	4.00	145.4	8743.5	S 24.4	E 112.0	114.6	-24.4	0.000
MWD	8814.0	3.40	147.5	8807.4	S 27.8	E 114.3	117.6	-27.8	0.961
MWD	8878.0	3.40	142.0	8871.3	S 30.9	E 116.4	120.5	-30.9	0.509
MWD	8942.0	3.40	141.5	8935.2	S 33.9	E 118.8	123.5	-33.9	0.046
MWD	9006.0	3.20	148.2	8999.1	S 36.9	E 120.9	126.4	-36.9	0.678
MWD	9068.0	3.40	140.0	9061.0	S 39.8	E 123.0	129.3	-39.8	0.826
MWD	9131.0	3.00	144.5	9123.9	S 42.5	E 125.2	132.2	-42.5	0.749
MWD	9163.0	3.30	139.6	9155.8	S 43.9	E 126.2	133.7	-43.9	1.259
MWD	9179.0	3.20	145.3	9171.8	S 44.6	E 126.8	134.4	-44.6	2.113

Directional Survey Report

Chesapeake Operating

Well ID: 611906

Well Name: Henshaw 23 Fed Com 1

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Coordinates		Closure	Vertical Section	Dog Leg Severity
					N-S	E-W			
MSS	9411.0	2.30	129.0	9403.5	S 52.9	E 134.1	144.2	-52.9	0.510
MSS	9602.0	2.20	168.5	9594.4	S 58.9	E 137.8	149.9	-58.9	0.797
MSS	9793.0	1.50	143.6	9785.3	S 64.5	E 140.0	154.2	-64.5	0.550
MSS	9987.0	1.20	202.7	9979.3	S 68.4	E 140.8	156.5	-68.4	0.699
MSS	10137.0	0.50	202.0	10129.2	S 70.5	E 139.9	156.6	-70.5	0.467
MSS	10328.0	1.50	232.3	10320.2	S 72.8	E 137.6	155.7	-72.8	0.575
INC	10827.0	2.50	0.0	10819.1	S 65.9	E 132.4	147.9	-65.9	0.725
INC	11320.0	2.75	0.0	11311.5	S 43.3	E 132.4	139.3	-43.3	0.051
INC	11538.0	3.00	0.0	11529.3	S 32.4	E 132.4	136.3	-32.4	0.115
INC	12030.0	3.00	0.0	12020.6	S 6.6	E 132.4	132.6	-6.6	0.000

Calculations using Minimum Curvature Method

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Page 3

SUNDRY NOTICE SPECIAL STIPULATIONS

1. This completion report is accepted subject to the operator providing a copy of the gas analysis and:
2. The operator must insure that there at least 35' of cement if bailed and 50' of cement if pumped, on top of the CIBP @ 12,460' before the current perforations are abandoned.

Engineering
can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 4/2/07