



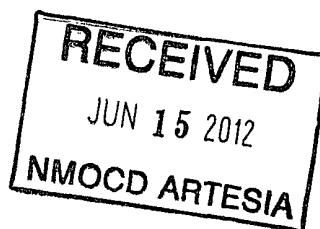
PHOENIX
TECHNOLOGY SERVICES

June 11, 2012

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Re: Chesapeake Operating Inc.
PLU Pierce Canyon 16-24-30 State 1H
Eddy Co., NM
API #30-015-40126
Job No. 1210411



Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, 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	
Antonio Thompkins	1H	204	12,830	05/20/12	06/01/12	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,

Amy Pope
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 0069

PHOENIX ENERGY SERVICES INC. SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1210411

OPERATOR Chesapeake Energy

WELL NAME PLU-Pierce Canyon 16-24-30 State 1H

COUNTY & STATE Eddy New Mexico

API WELL NUMBER 30-015-40126

PROPOSED DIRECTION 359

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
ft	. ft	0	0	0	0	SURFACE

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
20-May-12	204 ft	0.7	308.3

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
1-Jun-12	12,830 ft	89.9	357.1

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
1-Jun-12	12,880 ft	89.9	357.1

Antonio Thompkins

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.37
DECLINATION OR GRID	Grid

6/2/2012

TODAY'S DATE

MWD SUPERVISOR 1

Eric Wolter

DIRECTIONAL DRILLER 1

Glen McVay

MWD SUPERVISOR 2

Derek Webster

DIRECTIONAL DRILLER 2

0

1805 Brittmore Road

Houston, Texas 77043

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



Chesapeake Operating Inc.

Eddy County, New Mexico (NAD 1983)

PLU Pierce canyon 16-24-30 State 1H

Job # 1210411

Rig Patterson 62

Survey: Phoenix MWD Surveys

Chesapeake Energy, Survey Report

04 June, 2012





Chesapeake Energy, Survey Report



Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job # 1210411
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3378.00usft (Original Well Elev)
Site:	PLU Pierce canyon 16-24-30 State 1H	MD Reference:	WELL @ 3378.00usft (Original Well Elev)
Well:	Job # 1210411	North Reference:	Gnd
Wellbore:	Rig Patterson 62	Survey Calculation Method:	Minimum Curvature
Design:	Rig Patterson 62	Database:	Compass5000

Project	Eddy County, New Mexico (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	PLU Pierce canyon 16-24-30 State 1H		
Site Position:		Northing:	440,647.00 usft
From:	Map	Easting:	680,310.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 38.2210 N
		Longitude:	103° 53' 2.3622 W
		Grid Convergence:	0.24 °

Well		Job # 1210411				
Well Position	+N/-S	0.00 usft	Northing:	440,647.00 usft	Latitude:	32° 12' 38.2210 N
	+E/-W	0.00 usft	Easting:	680,310.00 usft	Longitude:	103° 53' 2.3622 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	23.00 usft	Ground Level:	3,355.00 usft	

Wellbore		Rig: Patterson 62			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	05/09/12	7.62	60.10	48,484

Design		Rig: Patterson 62		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.94

Survey Program		Date	06/04/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
204.00	12,880.00	Phoenix MWD Surveys (Rig Patterson 62	MWD	MWD - Standard	



Chesapeake Energy, Survey Report



Company: Chesapeake Operating Inc.				Local Co-ordinate Reference:				Well Job # 1210411			
Project: Eddy County, New Mexico (NAD 1983)				TVD Reference:				WELL @ 3378.00usft (Original Well Elev)			
Site: PLU Pierce canyon 16-24-30 State 1H				MD Reference:				WELL @ 3378.00usft (Original Well Elev)			
Well: Job # 1210411				North Reference:				Grid			
Wellbore: Rig Patterson 62				Survey Calculation Method:				Minimum Curvature			
Design: Rig Patterson 62				Database:				Compass5000			

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	3,378.00	0.00	0.00	0.00	0.00	0.00	440,647.00	680,310.00	
204.00	0.70	308.30	3,174.01	203.99	0.77	-0.98	0.77	0.34	440,647.77	680,309.02	
First Phoenix MWD Surveys @ 204' MD											
386.00	0.70	306.70	2,992.02	385.98	2.13	-2.74	2.13	0.01	440,649.13	680,307.26	
576.00	1.20	292.50	2,802.05	575.95	3.58	-5.51	3.59	0.29	440,650.58	680,304.49	
686.00	0.70	305.30	2,692.06	685.94	4.41	-7.12	4.42	0.49	440,651.41	680,302.88	
854.00	0.10	119.40	2,524.06	853.94	4.93	-7.83	4.94	0.48	440,651.93	680,302.17	
1,044.00	0.10	15.30	2,334.06	1,043.94	5.01	-7.64	5.02	0.08	440,652.01	680,302.36	
1,234.00	0.50	54.20	2,144.07	1,233.93	5.65	-6.93	5.66	0.22	440,652.65	680,303.07	
1,425.00	1.30	73.40	1,953.09	1,424.91	6.76	-4.18	6.77	0.44	440,653.76	680,305.82	
1,615.00	1.80	75.50	1,763.16	1,614.84	8.12	0.78	8.12	0.26	440,655.12	680,310.78	
1,805.00	2.50	77.20	1,573.30	1,804.70	9.79	7.71	9.78	0.37	440,656.79	680,317.71	
1,996.00	2.70	70.00	1,382.49	1,995.51	12.25	16.00	12.23	0.20	440,659.25	680,326.00	
2,186.00	1.90	69.90	1,192.65	2,185.35	14.86	23.16	14.84	0.42	440,661.86	680,333.16	
2,376.00	0.80	45.10	1,002.70	2,375.30	16.88	27.06	16.85	0.64	440,663.88	680,337.06	
2,566.00	1.20	39.80	812.73	2,565.27	19.35	29.27	19.32	0.22	440,666.35	680,339.27	
2,756.00	2.10	26.80	622.81	2,755.19	23.98	32.11	23.95	0.51	440,670.98	680,342.11	
2,947.00	2.70	18.50	431.98	2,946.02	31.37	35.12	31.34	0.36	440,678.37	680,345.12	
3,137.00	3.60	4.60	242.27	3,135.73	41.56	37.02	41.52	0.62	440,688.56	680,347.02	
3,327.00	3.20	2.70	52.60	3,325.40	52.81	37.75	52.77	0.22	440,699.81	680,347.75	
3,518.00	2.60	356.80	-138.15	3,516.15	62.46	37.76	62.42	0.35	440,709.46	680,347.76	
3,640.00	1.80	6.20	-260.06	3,638.06	67.12	37.81	67.08	0.72	440,714.12	680,347.81	
3,822.00	1.60	356.00	-441.98	3,819.98	72.50	37.94	72.46	0.20	440,719.50	680,347.94	
4,013.00	1.30	344.90	-632.92	4,010.92	77.25	37.19	77.21	0.21	440,724.25	680,347.19	
4,203.00	1.10	340.10	-822.88	4,200.88	81.05	36.01	81.01	0.12	440,728.05	680,346.01	
4,393.00	0.80	315.80	-1,012.86	4,390.86	83.71	34.46	83.68	0.26	440,730.71	680,344.46	
4,584.00	1.10	327.70	-1,203.83	4,581.83	86.22	32.55	86.19	0.19	440,733.22	680,342.55	

Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job # 1210411
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3378.00usft (Original Well Elev)
Site:	PLU Pierce canyon 16-24-30 State 1H	MD Reference:	WELL @ 3378.00usft (Original Well Elev)
Well:	Job # 1210411	North Reference:	Grid
Wellbore:	Rig: Patterson 62	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Patterson 62	Database:	Compass5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,774.00	0.90	316.80	-1,393.80	4,771.80	88.85	30.56	88.82	0.14	440,735.85	680,340.56
4,964.00	0.90	319.00	-1,583.78	4,961.78	91.06	28.56	91.03	0.02	440,738.06	680,338.56
5,155.00	1.00	317.80	-1,774.75	5,152.75	93.43	26.45	93.40	0.05	440,740.43	680,336.45
5,345.00	1.20	310.20	-1,964.72	5,342.72	95.94	23.82	95.92	0.13	440,742.94	680,333.82
5,535.00	1.10	311.00	-2,154.68	5,532.68	98.42	20.92	98.40	0.05	440,745.42	680,330.92
5,726.00	1.10	308.60	-2,345.64	5,723.64	100.77	18.11	100.75	0.02	440,747.77	680,328.11
5,916.00	0.90	323.40	-2,535.61	5,913.61	103.11	15.79	103.09	0.17	440,750.11	680,325.79
6,106.00	1.00	321.00	-2,725.59	6,103.59	105.59	13.86	105.58	0.06	440,752.59	680,323.86
6,297.00	1.10	316.10	-2,916.56	6,294.56	108.21	11.54	108.20	0.07	440,755.21	680,321.54
6,487.00	1.00	311.70	-3,106.52	6,484.52	110.62	9.04	110.62	0.07	440,757.62	680,319.04
6,678.00	0.70	290.40	-3,297.50	6,675.50	112.14	6.70	112.13	0.23	440,759.14	680,316.70
6,869.00	0.60	327.50	-3,488.49	6,866.49	113.39	5.07	113.39	0.22	440,760.39	680,315.07
7,059.00	0.40	344.80	-3,678.48	7,056.48	114.87	4.36	114.86	0.13	440,761.87	680,314.36
7,250.00	0.40	266.00	-3,869.48	7,247.48	115.47	3.52	115.46	0.27	440,762.47	680,313.52
7,441.00	0.40	222.00	-4,060.48	7,438.48	114.92	2.41	114.92	0.16	440,761.92	680,312.41
7,492.00	0.60	182.50	-4,111.47	7,489.47	114.53	2.28	114.52	0.76	440,761.53	680,312.28
7,561.00	1.50	354.50	-4,180.47	7,558.47	115.06	2.17	115.06	3.04	440,762.06	680,312.17
7,593.00	5.90	10.10	-4,212.39	7,590.39	117.10	2.42	117.10	13.98	440,764.10	680,312.42
7,624.00	10.00	7.20	-4,243.09	7,621.09	121.34	3.04	121.34	13.28	440,768.34	680,313.04
7,656.00	13.10	3.60	-4,274.44	7,652.44	127.72	3.62	127.71	9.94	440,774.72	680,313.62
7,688.00	16.40	3.60	-4,305.38	7,683.38	135.85	4.13	135.84	10.31	440,782.85	680,314.13
7,720.00	19.40	1.30	-4,335.83	7,713.83	145.67	4.53	145.67	9.63	440,792.67	680,314.53
7,751.00	22.00	357.40	-4,364.83	7,742.83	156.62	4.39	156.62	9.49	440,803.62	680,314.39
7,783.00	24.40	355.40	-4,394.24	7,772.24	169.20	3.58	169.20	7.89	440,816.20	680,313.58
7,815.00	27.10	355.10	-4,423.06	7,801.06	183.05	2.43	183.05	8.45	440,830.05	680,312.43
7,847.00	30.00	355.40	-4,451.16	7,829.16	198.29	1.17	198.29	9.07	440,845.29	680,311.17
7,878.00	33.70	354.70	-4,477.49	7,855.49	214.59	-0.25	214.59	11.99	440,861.59	680,309.75



Chesapeake Energy, Survey Report

Chesapeake

Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job #1210411
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3378.00usft (Original Well Elev)
Site:	PLU Pierce canyon 16-24-30 State 1H	MD Reference:	WELL @ 3378.00usft (Original Well Elev)
Well:	Job # 1210411	North Reference:	Grid
Wellbore:	Rig: Patterson 62	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Patterson 62	Database:	Compass5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	EW (usft)	V: Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,910.00	36.90	354.90	-4,503.60	7,881.60	233.00	-1.93	233.00	10.01	440,880.00	680,308.07
7,942.00	39.60	355.30	-4,528.73	7,906.73	252.74	-3.62	252.74	8.47	440,899.74	680,306.38
7,974.00	42.90	356.00	-4,552.79	7,930.79	273.77	-5.21	273.78	10.41	440,920.77	680,304.79
8,005.00	45.50	357.60	-4,575.01	7,953.01	295.35	-6.41	295.35	9.13	440,942.35	680,303.59
8,037.00	48.10	358.40	-4,596.91	7,974.91	318.66	-7.22	318.67	8.33	440,965.66	680,302.78
8,069.00	51.20	359.60	-4,617.63	7,995.63	343.04	-7.64	343.05	10.10	440,990.04	680,302.36
8,100.00	54.60	0.00	-4,636.33	8,014.33	367.76	-7.72	367.77	11.02	441,014.76	680,302.28
8,132.00	57.20	0.20	-4,654.27	8,032.27	394.26	-7.68	394.26	8.14	441,041.26	680,302.32
8,164.00	62.00	0.30	-4,670.45	8,048.45	421.85	-7.56	421.86	15.00	441,068.85	680,302.44
8,196.00	66.40	0.20	-4,684.38	8,062.38	450.65	-7.43	450.66	13.75	441,097.65	680,302.57
8,228.00	70.20	359.90	-4,696.21	8,074.21	480.38	-7.41	480.38	11.91	441,127.38	680,302.59
8,259.00	76.10	359.10	-4,705.19	8,083.19	510.03	-7.67	510.04	19.19	441,157.03	680,302.33
8,284.00	80.80	358.90	-4,710.19	8,088.19	534.52	-8.10	534.52	18.82	441,181.52	680,301.90
8,322.00	86.80	358.90	-4,714.30	8,092.30	572.27	-8.82	572.28	15.79	441,219.27	680,301.18
8,418.00	90.60	358.60	-4,716.47	8,094.47	668.20	-10.91	668.21	3.97	441,315.20	680,299.09
8,513.00	90.50	359.10	-4,715.56	8,093.56	763.18	-12.82	763.19	0.54	441,410.18	680,297.18
8,608.00	90.90	358.90	-4,714.40	8,092.40	858.16	-14.48	858.17	0.47	441,505.16	680,295.52
8,703.00	91.00	358.40	-4,712.83	8,090.83	953.12	-16.72	953.13	0.54	441,600.12	680,293.28
8,799.00	91.60	356.90	-4,710.65	8,088.65	1,049.01	-20.65	1,049.03	1.68	441,696.01	680,289.35
8,894.00	90.30	357.90	-4,709.07	8,087.07	1,143.90	-24.96	1,143.92	1.73	441,790.90	680,285.04
8,989.00	90.20	359.00	-4,708.66	8,086.66	1,238.86	-27.53	1,238.89	1.16	441,885.86	680,282.47
9,084.00	89.20	359.30	-4,709.16	8,087.16	1,333.85	-28.94	1,333.87	1.10	441,980.85	680,281.06
9,179.00	89.70	2.00	-4,710.07	8,088.07	1,428.83	-27.86	1,428.85	2.89	442,075.83	680,282.14
9,275.00	89.60	2.20	-4,710.65	8,088.65	1,524.76	-24.34	1,524.78	0.23	442,171.76	680,285.66
9,370.00	89.90	1.80	-4,711.07	8,089.07	1,619.70	-21.03	1,619.72	0.53	442,266.70	680,288.97
9,465.00	89.60	2.00	-4,711.48	8,089.48	1,714.65	-17.88	1,714.66	0.38	442,361.65	680,292.12
9,560.00	89.90	2.30	-4,711.90	8,089.90	1,809.58	-14.32	1,809.59	0.45	442,456.58	680,295.68

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Well:	Job # 1210411	North Reference:	Grid
Wellbore:	Rig Patterson 62	Survey Calculation Method:	Minimum Curvature
Design:	Rig Patterson 62	Database:	Compass5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,656.00	89.80	1.20	-4,712.15	8,090.15	1,905.53	-11.38	1,905.54	1.15	442,552.53	680,298.62	
9,750.00	90.50	359.80	-4,711.90	8,089.90	1,999.53	-10.56	1,999.54	1.67	442,646.53	680,299.44	
9,846.00	91.00	358.90	-4,710.65	8,088.65	2,095.51	-11.65	2,095.52	1.07	442,742.51	680,298.35	
9,941.00	90.00	0.30	-4,709.82	8,087.82	2,190.50	-12.32	2,190.51	1.81	442,837.50	680,297.68	
10,036.00	90.60	359.60	-4,709.32	8,087.32	2,285.50	-12.40	2,285.51	0.97	442,932.50	680,297.60	
10,132.00	89.80	359.40	-4,708.98	8,086.98	2,381.49	-13.24	2,381.51	0.86	443,028.49	680,296.76	
10,227.00	89.80	358.90	-4,709.32	8,087.32	2,476.48	-14.65	2,476.50	0.53	443,123.48	680,295.35	
10,322.00	90.60	359.10	-4,708.98	8,086.98	2,571.47	-16.30	2,571.48	0.87	443,218.47	680,293.70	
10,417.00	91.00	0.90	-4,707.66	8,085.66	2,666.45	-16.30	2,666.47	1.94	443,313.45	680,293.70	
10,512.00	89.70	1.80	-4,707.08	8,085.08	2,761.42	-14.07	2,761.43	1.66	443,408.42	680,295.93	
10,608.00	89.80	0.80	-4,707.50	8,085.50	2,857.39	-11.89	2,857.41	1.05	443,504.39	680,298.11	
10,703.00	89.80	1.20	-4,707.83	8,085.83	2,952.38	-10.23	2,952.39	0.42	443,599.38	680,299.77	
10,798.00	89.70	1.60	-4,708.24	8,086.24	3,047.35	-7.91	3,047.36	0.43	443,694.35	680,302.09	
10,894.00	90.20	1.40	-4,708.33	8,086.33	3,143.32	-5.40	3,143.32	0.56	443,790.32	680,304.60	
10,989.00	87.80	359.60	-4,709.98	8,087.98	3,238.29	-4.57	3,238.29	3.16	443,885.29	680,305.43	
11,084.00	87.70	359.60	-4,713.71	8,091.71	3,333.21	-5.23	3,333.22	0.11	443,980.21	680,304.77	
11,179.00	87.80	359.70	-4,717.44	8,095.44	3,428.14	-5.81	3,428.14	0.15	444,075.14	680,304.19	
11,274.00	86.70	358.90	-4,722.00	8,100.00	3,523.02	-6.97	3,523.02	1.43	444,170.02	680,303.03	
11,369.00	88.30	359.00	-4,726.15	8,104.15	3,617.91	-8.71	3,617.92	1.69	444,264.91	680,301.29	
11,464.00	89.10	359.30	-4,728.30	8,106.30	3,712.87	-10.12	3,712.88	0.90	444,359.87	680,299.88	
11,560.00	90.20	0.20	-4,728.89	8,106.89	3,808.87	-10.53	3,808.88	1.48	444,455.87	680,299.47	
11,655.00	90.50	0.00	-4,728.31	8,106.31	3,903.87	-10.37	3,903.87	0.38	444,550.87	680,299.63	
11,750.00	91.20	358.50	-4,726.90	8,104.90	3,998.84	-11.61	3,998.85	1.74	444,645.84	680,298.39	
11,845.00	89.40	358.90	-4,726.40	8,104.40	4,093.81	-13.77	4,093.83	1.94	444,740.81	680,296.23	
11,940.00	88.60	358.30	-4,728.06	8,106.06	4,188.77	-16.09	4,188.78	1.05	444,835.77	680,293.91	
12,036.00	88.40	358.20	-4,730.57	8,108.57	4,284.69	-19.02	4,284.71	0.23	444,931.69	680,290.98	
12,131.00	88.70	358.40	-4,732.98	8,110.98	4,379.62	-21.84	4,379.64	0.38	445,026.62	680,288.16	



Chesapeake Energy, Survey Report



Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job # 1210411
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3378.00usft (Original Well Elev)
Site:	PLU: Pierce canyon, 16-24-30 State 1H	MD Reference:	WELL @ 3378.00usft (Original Well Elev)
Well:	Job # 1210411	North Reference:	Grid
Wellbore:	Rig: Patterson 62	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Patterson 62	Database:	Compass5000

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
12,226.00	89.20	357.80	-4,734.72	8,112.72	4,474.55	-24.98	4,474.57	0.82	445,121.55	680,285.02
12,321.00	90.90	357.20	-4,734.63	8,112.63	4,569.46	-29.13	4,569.48	1.90	445,216.46	680,280.87
12,417.00	92.50	357.60	-4,731.79	8,109.79	4,665.31	-33.48	4,665.34	1.72	445,312.31	680,276.52
12,512.00	91.60	359.60	-4,728.39	8,106.39	4,760.22	-35.80	4,760.25	2.31	445,407.22	680,274.20
12,607.00	90.60	0.90	-4,726.56	8,104.56	4,855.20	-35.39	4,855.23	1.73	445,502.20	680,274.61
12,702.00	92.10	359.90	-4,724.32	8,102.32	4,950.16	-34.72	4,950.20	1.90	445,597.16	680,275.28
12,797.00	90.20	357.60	-4,722.42	8,100.42	5,045.11	-36.79	5,045.15	3.14	445,692.11	680,273.21
12,830.00	89.90	357.10	-4,722.39	8,100.39	5,078.07	-38.32	5,078.11	1.77	445,725.07	680,271.68
Last Phoenix MWD Survey @ 12830' MD										
12,880.00	89.90	357.10	-4,722.48	8,100.48	5,128.01	-40.85	5,128.05	0.00	445,775.01	680,269.15
Projection to TD @ 12880' MD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
204.00	203.99	0.77	-0.98	First Phoenix MWD Surveys @ 204' MD
12,830.00	8,100.39	5,078.07	-38.32	Last Phoenix MWD Survey @ 12830' MD
12,880.00	8,100.48	5,128.01	-40.85	Projection to TD @ 12880' MD

Checked By: _____	Approved By: _____	Date: _____
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JUN 15 2012

NMOCD ARTESIA

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 593-6181 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1203 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 884-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3460 Fax: (505) 478-3162

State of New Mexico
Energy, Minerals and Natural Resources Department

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 96403	Pool Name WILDCAT; BONE SPRING
Property Code	Property Name PLU PIERCE CANYON 21 24 30 USA	Well Number 1H
GRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3353'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	24 S	30 E		130	NORTH	1940	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
O	21	24 S	30 E		100	SOUTH	1980	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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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 32.21012306° Long - W 103.8838613° NMSPCE - N 440467.503 E 680350.408 (NAD-83) Lat - N 32.209999848° Long - W 103.883375686° NMSPCE - N 440408.685 E 639166.261 (NAD-27)	Project Area Producing Area	Projected Penetration Point 330' FSL & 1940' FEL	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. <i>Bryan Arrant</i> 02/21/2012 Signature Date Bryan Arrant Printed Name bryan.arrant@chk.com Email Address
PROPOSED BOTTOM HOLE LOCATION Lat - N 32.196248046° Long - W 103.883991213° NMSPCE - N 435419.818 E 680331.314 (NAD-83) Lat - N 32.196124688° Long - W 103.883506203° NMSPCE - N 435361.108 E 639147.012 (NAD-27)			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. <i>Gary L. Jones</i> Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 24812

RECEIVED

JUN 15 2012

NMOCD ARTESIA

Form C-102
August 1, 2011

Submit one copy to appropriate
District Office

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6101 Fax: (505) 393-0720

DISTRICT II
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DISTRICT IV
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Phone (505) 470-3400 Fax: (505) 470-3402

State of New Mexico
Energy, Minerals and Natural Resources Department

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 96403	Pool Name WILDCAT, BONE SPRING
Property Code	Property Name PLU PIERCE CANYON 16 24 30 STATE	Well Number 1H
GRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3355'

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	16	24 S	30 E		50	SOUTH	1980	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
B	16	24 S	30 E		100	NORTH	1980	EAST	EDDY

Dedicated Acres 162.26	Joint or Infill	Consolidation Code	Order No.
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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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32.224718722° Long - W 103.883937566° NMSPCE- N 445777.093 E 680304.607 (NAD-83) Lat - N 32.224595662° Long - W 103.883451376° NMSPCE- N 445718.160° E 639120.624 (NAD-27)	100' B.H. 1980' Project Area Producing Area 5/31.3'	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, unless 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. <i>Bryan Arrant</i> 02/17/2012 Signature Date Bryan Arrant Printed Name bryan.arrant@chk.com Email Address
SURFACE LOCATION Lat - N 32.210617112° Long - W 103.883988704° NMSPCE- N 440647.066 E 680310.243 (NAD-83) Lat - N 32.210493903° Long - W 103.883503098° NMSPCE- N 440588.244 E 639126.102 (NAD-27)	1980' Projected Penetration Point	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. FEBRUARY 15, 2012 Date Surveyed <i>Gary L. Jones</i> Signature Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26087

Projected Penetration Point
330' FSL & 1980' FEL