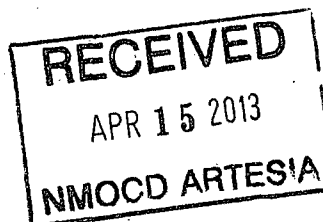




PHOENIX
TECHNOLOGY SERVICES

April 10, 2013

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



Dear District 2 – Artesia

Re: Bopco, LP
PLU Big Sinks 2-25-30 State #2H
Eddy Co., NM
API #30-015-40661 ST 1
Job No. 1310002

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	
Spencer Brown	2H	6500	14,046	03-15-13	03-30-13	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,

Kelly Jo Walter

Kelly Jo Walter
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4364 9575

PHOENIX TECHNOLOGY SERVICES INC. SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1310002

OPERATOR Bopco LP

WELL NAME PLU Big Sinks 2-25-30 State #2H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER 30-015-40661

PROPOSED DIRECTION 0.15

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
6,404 ft	6,403.06 ft	0.4	197.1	-36.04	0.42	MWD

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
15-Mar-13	6,500 ft	3.4	351.5

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
30-Mar-13	14,046 ft	90.9	359.6

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
30-Mar-13	14,110 ft	90.9	359.6

Spencer Brown

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.23
DECLINATION OR GRID	Grid

30-Mar

TODAY'S DATE

MWD SUPERVISOR 1

Spencer Brown

DIRECTIONAL DRILLER 1

Brady Welch

MWD SUPERVISOR 2

Brent Shaw

DIRECTIONAL DRILLER 2

W. Solomon/A. Worsham

1805 Brittmore Road

Houston, Texas 77043

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



Bopco L P

Eddy County, NM (NAD27 NME)

PLU Big Sinks 2-25-30 State

#2H

Wellbore #2 / Job #1310002

Survey: Phoenix ST MWD Survey

Survey Report

31 March, 2013





Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3373.00usft (Latshaw 14)
Site:	PLU Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw 14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2 / Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB v5000

Project		Eddy County, NM (NAD27, NME)	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site						PLU Big Sinks 2-25-30 State								
Site Position:			Northing:			397,909.00 usft			Latitude:			32° 5' 35.518179 N		
From:		Map	Easting:			636,627.00 usft			Longitude:		103° 53' 31.734916 W			
Position Uncertainty:		0.00 usft	Slot Radius:			13-3/16 "			Grid Convergence:		0.23 °			

Well	#2H					
Well Position	+N/-S	0.00 usft	Northing:	419,548.75 usft	Latitude:	32° 9' 9.026358 N
	+E/-W	0.00 usft	Easting:	651,672.72 usft	Longitude:	103° 50' 35.692107 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	22.00 usft	Ground Level:	3,353.00 usft

Wellbore		Wellbore #2/ Job: #1310002			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	03/13/13	7.49	60.03	48,370

Design		Surveys: (Latshaw 14)		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 6,404.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.15



Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	KB @ 3373.00usft (Latshaw 14)
Site:	PLU Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw 14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2 / Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB v5000

Survey Program		Date	03/31/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
92.20	1,284.00	Gyrodata Survey (Wellbore #1 / Job #1310002)	NS-GYRO-MS	North sensing gyrocompassing m/s	
1,357.00	6,404.00	Phoenix MWD Surveys (Wellbore #1 / Job #1310002)	MWD	MWD - Standard	
6,404.00	14,110.00	Phoenix ST MWD Survey (Wellbore #2 / Job #1310002)	MWD	MWD - Standard	

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)	
6,404.00	0.40	197.10	3,030.06	6,403.06	-36.04	0.42	-36.04	0.00	419,512.71	651,673.14	
Tie-on to Wellbore #1											
6,500.00	3.40	351.50	3,126.01	6,499.01	-33.55	-0.10	-33.55	3.92	419,515.20	651,672.62	
Phoenix First ST MWD Survey											
6,595.00	10.70	359.00	3,220.23	6,593.23	-21.93	-0.67	-21.93	7.73	419,526.82	651,672.05	
6,690.00	10.20	358.10	3,313.65	6,686.65	-4.70	-1.10	-4.71	0.55	419,544.05	651,671.62	
6,785.00	9.50	358.00	3,407.25	6,780.25	11.54	-1.66	11.54	0.74	419,560.29	651,671.06	
6,880.00	8.80	357.40	3,501.04	6,874.04	26.63	-2.26	26.63	0.74	419,575.38	651,670.46	
6,975.00	8.10	358.70	3,595.01	6,968.01	40.58	-2.74	40.58	0.76	419,589.33	651,669.98	
7,071.00	7.80	0.60	3,690.09	7,063.09	53.86	-2.83	53.85	0.42	419,602.61	651,669.89	
7,166.00	7.20	0.00	3,784.28	7,157.28	66.26	-2.76	66.25	0.64	419,615.01	651,669.96	
7,261.00	5.80	4.80	3,878.66	7,251.66	77.00	-2.36	76.99	1.58	419,625.75	651,670.36	
7,356.00	5.00	9.70	3,973.24	7,346.24	85.86	-1.26	85.86	0.97	419,634.61	651,671.46	
7,451.00	4.40	9.20	4,067.92	7,440.92	93.54	0.02	93.54	0.63	419,642.29	651,672.74	
7,547.00	4.00	9.70	4,163.66	7,536.66	100.48	1.17	100.48	0.42	419,649.23	651,673.89	
7,644.00	3.50	11.70	4,260.46	7,633.46	106.71	2.34	106.72	0.53	419,655.46	651,675.06	
7,739.00	3.20	9.40	4,355.29	7,728.29	112.16	3.37	112.17	0.35	419,660.91	651,676.09	
7,834.00	2.70	8.00	4,450.17	7,823.17	117.00	4.11	117.01	0.53	419,665.75	651,676.83	
7,929.00	2.40	7.00	4,545.07	7,918.07	121.19	4.66	121.20	0.32	419,669.94	651,677.38	
8,024.00	2.10	359.20	4,640.00	8,013.00	124.90	4.88	124.91	0.45	419,673.65	651,677.60	
8,119.00	2.30	351.60	4,734.93	8,107.93	128.53	4.58	128.54	0.37	419,677.28	651,677.30	



Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3373.00usft (Latshaw.14)
Site:	PLU Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw.14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2 / Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw.14)	Database:	GCR DB v5000

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)
8,214.00	2.50	349.70	4,829.85	8,202.85	132.45	3.93	132.46	0.23	419,681.20	651,676.65
8,309.00	1.70	335.90	4,924.78	8,297.78	135.78	2.98	135.78	0.99	419,684.53	651,675.70
8,404.00	1.50	298.80	5,019.75	8,392.75	137.66	1.32	137.67	1.09	419,686.41	651,674.04
8,499.00	1.60	297.00	5,114.71	8,487.71	138.86	-0.95	138.86	0.12	419,687.61	651,671.77
8,594.00	2.30	282.40	5,209.66	8,582.66	139.87	-4.00	139.86	0.90	419,688.62	651,668.72
8,710.00	2.60	273.50	5,325.55	8,698.55	140.54	-8.89	140.51	0.42	419,689.29	651,663.83
8,742.00	3.20	305.40	5,357.51	8,730.51	141.10	-10.35	141.07	5.30	419,689.85	651,662.37
8,773.00	6.70	332.20	5,388.40	8,761.40	143.20	-11.90	143.17	13.24	419,691.95	651,660.82
8,805.00	11.30	341.80	5,420.00	8,793.00	147.83	-13.75	147.79	15.07	419,696.58	651,658.97
8,836.00	15.00	344.70	5,450.18	8,823.18	154.59	-15.76	154.55	12.12	419,703.34	651,656.96
8,868.00	19.50	348.10	5,480.73	8,853.73	163.81	-17.95	163.77	14.41	419,712.56	651,654.77
8,899.00	18.90	347.10	5,510.01	8,883.01	173.77	-20.14	173.72	2.21	419,722.52	651,652.58
8,931.00	19.20	345.80	5,540.26	8,913.26	183.92	-22.59	183.86	1.62	419,732.67	651,650.13
8,962.00	20.80	352.50	5,569.39	8,942.39	194.32	-24.56	194.26	9.01	419,743.07	651,648.16
8,994.00	24.80	356.90	5,598.89	8,971.89	206.66	-25.66	206.60	13.58	419,755.41	651,647.06
9,025.00	29.90	0.60	5,626.41	8,999.41	220.89	-25.93	220.82	17.33	419,769.64	651,646.79
9,057.00	35.00	2.10	5,653.41	9,026.41	238.05	-25.51	237.98	16.13	419,786.80	651,647.21
9,089.00	39.10	3.90	5,678.94	9,051.94	257.30	-24.49	257.23	13.25	419,806.05	651,648.23
9,120.00	42.80	3.40	5,702.35	9,075.35	277.57	-23.20	277.51	11.98	419,826.32	651,649.52
9,152.00	46.60	3.60	5,725.09	9,098.09	300.03	-21.82	299.98	11.88	419,848.78	651,650.90
9,184.00	51.20	4.20	5,746.12	9,119.12	324.09	-20.18	324.03	14.44	419,872.84	651,652.54
9,215.00	56.20	4.20	5,764.47	9,137.47	348.99	-18.35	348.94	16.13	419,897.74	651,654.37
9,247.00	60.30	3.50	5,781.31	9,154.31	376.14	-16.53	376.09	12.95	419,924.89	651,656.19
9,279.00	64.90	3.00	5,796.03	9,169.03	404.49	-14.92	404.45	14.44	419,953.24	651,657.80
9,310.00	68.70	2.00	5,808.24	9,181.24	432.96	-13.68	432.92	12.61	419,981.71	651,659.04
9,342.00	72.70	0.70	5,818.81	9,191.81	463.14	-12.97	463.11	13.07	420,011.89	651,659.75
9,374.00	75.80	1.30	5,827.50	9,200.50	493.93	-12.43	493.90	9.85	420,042.68	651,660.29



Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County NM (NAD27 NME)	TVD Reference:	KB @ 3373.00usft (Latshaw 14)
Site:	PLU Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw 14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2 / Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB v5000

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)	
9,406.00	80.50	2.00	5,834.07	9,207.07	525.23	-11.53	525.20	14.84	420,073.98	651,661.19	
9,437.00	84.20	2.60	5,838.19	9,211.19	555.92	-10.30	555.89	12.09	420,104.67	651,662.42	
9,484.00	89.40	2.60	5,840.82	9,213.82	602.78	-8.17	602.76	11.06	420,151.53	651,664.55	
9,518.00	90.40	2.30	5,840.88	9,213.88	636.75	-6.72	636.73	3.07	420,185.50	651,666.00	
9,549.00	90.20	2.40	5,840.71	9,213.71	667.73	-5.45	667.71	0.72	420,216.48	651,667.27	
9,581.00	90.60	2.40	5,840.49	9,213.49	699.70	-4.11	699.68	1.25	420,248.45	651,668.61	
9,676.00	93.70	1.50	5,836.93	9,209.93	794.56	-0.87	794.56	3.40	420,343.31	651,671.85	
9,771.00	94.50	1.20	5,830.13	9,203.13	889.29	1.36	889.29	0.90	420,438.04	651,674.08	
9,866.00	94.50	1.30	5,822.68	9,195.68	983.98	3.42	983.98	0.10	420,532.73	651,676.14	
9,961.00	93.10	0.30	5,816.39	9,189.39	1,078.76	4.75	1,078.76	1.81	420,627.51	651,677.47	
10,057.00	93.00	359.80	5,811.28	9,184.28	1,174.62	4.83	1,174.63	0.53	420,723.37	651,677.55	
10,152.00	92.00	359.70	5,807.13	9,180.13	1,269.53	4.42	1,269.53	1.06	420,818.28	651,677.14	
10,247.00	92.00	359.60	5,803.82	9,176.82	1,364.47	3.84	1,364.47	0.11	420,913.22	651,676.56	
10,343.00	90.50	359.20	5,801.72	9,174.72	1,460.44	2.83	1,460.44	1.62	421,009.19	651,675.55	
10,438.00	91.00	358.50	5,800.48	9,173.48	1,555.41	0.92	1,555.40	0.91	421,104.16	651,673.64	
10,532.00	88.70	359.70	5,800.73	9,173.73	1,649.39	-0.55	1,649.38	2.76	421,198.14	651,672.17	
10,628.00	88.10	359.10	5,803.41	9,176.41	1,745.34	-1.56	1,745.33	0.88	421,294.09	651,671.16	
10,723.00	88.70	358.90	5,806.06	9,179.06	1,840.29	-3.21	1,840.28	0.67	421,389.04	651,669.51	
10,818.00	89.00	357.60	5,807.97	9,180.97	1,935.23	-6.11	1,935.20	1.40	421,483.98	651,666.61	
10,913.00	89.20	357.50	5,809.46	9,182.46	2,030.13	-10.18	2,030.09	0.24	421,578.88	651,662.54	
11,008.00	89.30	358.30	5,810.70	9,183.70	2,125.05	-13.66	2,125.01	0.85	421,673.80	651,659.06	
11,103.00	90.30	359.80	5,811.03	9,184.03	2,220.04	-15.23	2,219.99	1.90	421,768.79	651,657.49	
11,198.00	90.80	0.60	5,810.12	9,183.12	2,315.03	-14.90	2,314.98	0.99	421,863.78	651,657.82	
11,293.00	91.20	0.40	5,808.46	9,181.46	2,410.01	-14.07	2,409.97	0.47	421,958.76	651,658.65	
11,388.00	91.80	0.70	5,805.98	9,178.98	2,504.98	-13.16	2,504.93	0.71	422,053.73	651,659.56	
11,483.00	92.40	359.90	5,802.50	9,175.50	2,599.91	-12.66	2,599.87	1.05	422,148.66	651,660.06	
11,578.00	91.00	0.80	5,799.68	9,172.68	2,694.86	-12.08	2,694.82	1.75	422,243.61	651,660.64	



Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County, NM (NAD27/NME)	TVD Reference:	KB @ 3373.00usft (Latshaw 14)
Site:	PLU: Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw 14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2/ Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR-DB v5000

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)	
11,673.00	89.40	0.00	5,799.35	9,172.35	2,789.86	-11.42	2,789.82	1.88	422,338.61	651,661.30	
11,768.00	88.80	359.10	5,800.84	9,173.84	2,884.84	-12.16	2,884.80	1.14	422,433.59	651,660.56	
11,862.00	90.70	358.90	5,801.25	9,174.25	2,978.82	-13.80	2,978.77	2.03	422,527.57	651,658.92	
11,957.00	90.60	0.30	5,800.17	9,173.17	3,073.81	-14.47	3,073.76	1.48	422,622.56	651,658.25	
12,052.00	89.20	359.80	5,800.34	9,173.34	3,168.81	-14.38	3,168.76	1.56	422,717.56	651,658.34	
12,147.00	89.20	359.50	5,801.66	9,174.66	3,263.80	-14.97	3,263.74	0.32	422,812.55	651,657.75	
12,242.00	89.00	359.80	5,803.15	9,176.15	3,358.78	-15.55	3,358.73	0.38	422,907.53	651,657.17	
12,337.00	89.50	1.20	5,804.40	9,177.40	3,453.77	-14.72	3,453.72	1.56	423,002.52	651,658.00	
12,432.00	89.60	0.60	5,805.14	9,178.14	3,548.75	-13.22	3,548.71	0.64	423,097.50	651,659.50	
12,527.00	88.90	359.70	5,806.39	9,179.39	3,643.74	-12.98	3,643.70	1.20	423,192.49	651,659.74	
12,623.00	89.40	1.10	5,807.81	9,180.81	3,739.73	-12.31	3,739.68	1.55	423,288.48	651,660.41	
12,718.00	89.50	2.10	5,808.72	9,181.72	3,834.68	-9.65	3,834.65	1.06	423,383.43	651,663.07	
12,812.00	90.40	2.70	5,808.81	9,181.81	3,928.60	-5.72	3,928.57	1.15	423,477.35	651,667.00	
12,908.00	90.90	2.70	5,807.72	9,180.72	4,024.49	-1.19	4,024.47	0.52	423,573.24	651,671.53	
13,002.00	90.80	2.40	5,806.32	9,179.32	4,118.38	2.99	4,118.38	0.34	423,667.13	651,675.71	
13,097.00	91.60	2.50	5,804.33	9,177.33	4,213.27	7.05	4,213.28	0.85	423,762.02	651,679.77	
13,192.00	90.90	2.30	5,802.26	9,175.26	4,308.17	11.02	4,308.18	0.77	423,856.92	651,683.74	
13,286.00	90.70	2.00	5,800.95	9,173.95	4,402.09	14.55	4,402.12	0.38	423,950.84	651,687.27	
13,381.00	90.90	2.00	5,799.62	9,172.62	4,497.03	17.87	4,497.06	0.21	424,045.78	651,690.59	
13,475.00	91.40	1.80	5,797.74	9,170.74	4,590.95	20.98	4,590.99	0.57	424,139.70	651,693.70	
13,571.00	91.60	1.30	5,795.22	9,168.22	4,686.89	23.58	4,686.93	0.56	424,235.64	651,696.30	
13,666.00	92.40	1.30	5,791.91	9,164.91	4,781.80	25.73	4,781.85	0.84	424,330.55	651,698.45	
13,761.00	92.40	0.60	5,787.93	9,160.93	4,876.71	27.30	4,876.76	0.74	424,425.46	651,700.02	
13,855.00	91.20	0.40	5,784.98	9,157.98	4,970.65	28.12	4,970.71	1.29	424,519.40	651,700.84	
13,950.00	90.50	0.10	5,783.57	9,156.57	5,065.64	28.54	5,065.70	0.80	424,614.39	651,701.26	
14,046.00	90.90	359.60	5,782.39	9,155.39	5,161.63	28.29	5,161.69	0.67	424,710.38	651,701.01	

Final MWD Survey



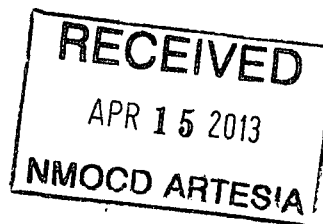
Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	KB @ 3373.00usft (Latshaw 14)
Site:	PLU Big Sinks 2-25-30 State	MD Reference:	KB @ 3373.00usft (Latshaw 14)
Well:	#2H	North Reference:	Grid
Wellbore:	Wellbore #2 / Job #1310002	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB v5000

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)
14,110.00	90.90	359.60	5,781.39	9,154.39	5,225.63	27.84	5,225.68	0.00	424,774.38	651,700.56
Projection to TD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,404.00	6,403.06	-36.04	0.42	Tie-on to Wellbore #1
6,500.00	6,499.01	-33.55	-0.10	Phoenix First ST MWD Survey
14,046.00	9,155.39	5,161.63	28.29	Final MWD Survey
14,110.00	9,154.39	5,225.63	27.84	Projection to TD



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Drazos Road, Artesia, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-40762		2 Pool Code 96238		3 Pool Name CORRAL CANYON; BONE SPRING	
4 Property Code 39487		5 Property Name PLU ROSS RANCH 33 25 30 USA			6 Well Number 1H
7 GRID No. 1471791		8 Operator Name CHESAPEAKE OPERATING, INC.			9 Elevation 3197'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	33	25S	30E		150'	NORTH	660'	WEST	EDDY

11 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
M	33	25S	30E		330'	SOUTH	660'	WEST	EDDY

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 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.

Project Area

660' 150'

FIRST PROJECTED PERFORATIONS
330' FSL & 660' FWL

S 00°12'12"W 4844.02'

Producing Area

162.40 ACRES

660' 330'

OPERATOR: Please do not report production under this pool id code until OCD confirms perfs and appropriate pool designation on completion and C104 approvals.

PLU ROSS RANCH 33 25 30 USA NO. 1H WELL	
X=	636,627 NAD 27
Y=	397,909
LAT.	32.093199
LONG.	103.892148
X=	677,813 NAD83
Y=	397,967
LAT.	32.093324
LONG.	103.892629
ELEVATION +3197' NAVD 88	

PROPOSED BOTTOM HOLE LOCATION	
X=	636,610 NAD 27
Y=	393,065
LAT.	32.079884
LONG.	103.892267
X=	677,796 NAD83
Y=	393,123
LAT.	32.080008
LONG.	103.892748

" 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 *Bryan Arrant* Date 06/25/2012

Printed Name Bryan Arrant

E-mail Address bryan.arrant@chk.com

"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 of Survey June 25, 2012

Signature and Seal of Professional Surveyor *[Signature]*

Certificate Number #15078

EXHIBIT A1