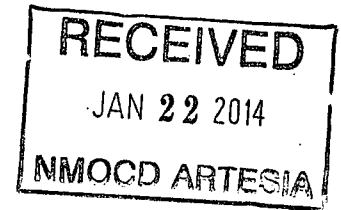




November 13, 2013

Bopco, LP
Attention: Regulatory Department
PO Box 2760
Midland, TX 79702



Re: Bopco, LP
PLU Big Sinks 24-25-30 USA #1Y (WB3)
Eddy County, NM
API #30-015-41693
Job No. 1311370

Dear Regulatory Department,

Phoenix Technology Services, Inc. has filed the survey certification, surveys, and lease plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Mike Layfield	1Y	9,994	14,305	10/29/13	11/09/13	MWD

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Dolly Bush

Dolly Bush
Operations Administrator

PHOENIX TECHNOLOGY SERVICES INC. SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1311370

OPERATOR Bopco, LP

WELL NAME PLU Big Sinks 24-25-30 USA #1Y (WB3)

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-41693

PROPOSED DIRECTION 181.03

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
9,928 ft	9,244.46 ft	89.5	182.3	-944	45.84	Gyro Data MWD

FIRST SURVEY DATE	FIRST SURVEY DEPTH		
		INCLIN	AZIMUTH
29-Oct-13	9,994 ft	86.3	184

SURVEY INSTRUMENT TYPE
Phoenix P360

LAST SURVEY DATE	LAST SURVEY DEPTH		
		INCLIN	AZIMUTH
9-Nov-13	14,305 ft	89.8	179.8

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
9-Nov-13	14,363 ft	89.8	179.8

Mike Layfield

PRINT YOUR NAME ABOVE

Mike Layfield

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.16
DECLINATION OR GRID	Grid

11/9/2013

TODAY'S DATE

MWD SUPERVISOR 1

Mike Layfield

DIRECTIONAL DRILLER 1

Casey Hendrix

MWD SUPERVISOR 2

Justin Amari

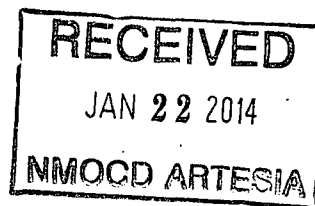
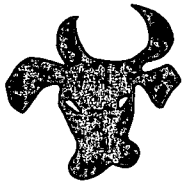
DIRECTIONAL DRILLER 2

Jim Tabola

1805 Brittmore Road

Houston, Texas 77043

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



BOPCO, L P

Eddy County, NM (NAD27 NME)

PLU Big Sinks 24-25-30 USA

#1Y

WB3/Job #1311370

Survey: Phoenix MWD Survey

Standard Survey Report

12 November, 2013





Phoenix Technology Services

Survey Report



Company:	BOPCO, L.P.	Local Co-ordinate Reference:	Well: #1Y
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3323.00usft (Latshaw 14)
Site:	PLU Big Sinks 24-25-30 USA	MD Reference:	KB @ 3323.00usft (Latshaw 14)
Well:	#1Y	North Reference:	Grid
Wellbore:	WB3/Job #1311370	Survey Calculation Method:	Minimum Curvature
Design:	WB3/Job #1311370	Database:	GCR DB

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 24-25-30 USA											
Site Position:			Northing:			408,912.40 usft			Latitude:			32° 7' 23.72628 N					
From:			Map			Easting:			652,583.20 usft			Longitude:			103° 50' 25.66760 W		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.26 °		

Well	#1Y					
Well Position	+N/-S	0.00 usft	Northing:	408,914.60 usft	Latitude:	32° 7' 23.74572 N
	+E/-W	0.00 usft	Easting:	652,634.80 usft	Longitude:	103° 50' 25.06747 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,301.00 usft

Wellbore	WB3/Job #1311370				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	10/27/13	7.41	59.99	48,291

Design		WB3/Job #1311370			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	9,928.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	180.79	

Survey Program		Date	11/12/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
118.77	5,987.00	Gyrodata (WB1/Job #1311370)	NS-GYRO-MS	North sensing gyrocompassing m/s	
6,172.00	9,195.00	Survey 2 (WB1/Job #1311370)	MWD	MWD - Standard	
9,195.00	9,928.00	Phoenix WB2 MWD Survey (WB2/Job #13	MWD	MWD - Standard	
9,928.00	14,363.00	Phoenix MWD Survey (WB3/Job #131137	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,928.00	89.50	182.30	9,244.46	-944.00	45.84	943.28	0.00	0.00	0.00
Tie-on to WB2									
9,994.00	86.30	184.00	9,246.88	-1,009.85	42.22	1,009.17	5.49	-4.85	2.58
10,026.00	83.40	184.90	9,249.75	-1,041.62	39.75	1,040.97	9.49	-9.06	2.81
10,121.00	85.40	186.90	9,259.02	-1,135.65	30.02	1,135.13	2.97	2.11	2.11
10,216.00	86.60	185.80	9,265.65	-1,229.84	19.54	1,229.45	1.71	1.26	-1.16
10,311.00	88.80	182.90	9,269.46	-1,324.47	12.35	1,324.18	3.83	2.32	-3.05
10,406.00	87.70	183.00	9,272.36	-1,419.30	7.46	1,419.06	1.16	-1.16	0.11



Phoenix Technology Services
Survey Report



Company:	BOPCO, L.P.	Local Co-ordinate Reference:	Well #1Y
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3323.00usft (Latshaw 14)
Site:	PLU-Big Sinks 24-25-30 USA	MD Reference:	KB @ 3323.00usft (Latshaw 14)
Well:	#1Y	North Reference:	Grid
Wellbore:	WB3/Job #1311370	Survey Calculation Method:	Minimum Curvature
Design:	WB3/Job #1311370	Database:	GCR DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,501.00	88.70	181.00	9,275.35	-1,514.19	4.15	1,513.99	2.35	1.05	-2.11
10,596.00	91.60	180.70	9,275.10	-1,609.17	2.74	1,608.98	3.07	3.05	-0.32
10,691.00	90.60	180.50	9,273.27	-1,704.15	1.74	1,703.96	1.07	-1.05	-0.21
10,786.00	93.10	180.70	9,270.21	-1,799.08	0.75	1,798.90	2.64	2.63	0.21
10,882.00	92.50	180.20	9,265.52	-1,894.96	0.00	1,894.78	0.81	-0.63	-0.52
10,977.00	93.10	182.20	9,260.88	-1,989.83	-1.99	1,989.66	2.20	0.63	2.11
11,072.00	92.50	182.20	9,256.24	-2,084.64	-5.63	2,084.52	0.63	-0.63	0.00
11,167.00	92.60	181.70	9,252.01	-2,179.49	-8.86	2,179.41	0.54	0.11	-0.53
11,262.00	92.90	181.80	9,247.45	-2,274.34	-11.76	2,274.28	0.33	0.32	0.11
11,357.00	93.50	181.70	9,242.15	-2,369.15	-14.66	2,369.12	0.64	0.63	-0.11
11,452.00	92.00	184.60	9,237.59	-2,463.88	-19.87	2,463.92	3.43	-1.58	3.05
11,547.00	90.20	182.10	9,235.77	-2,558.69	-25.42	2,558.80	3.24	-1.89	-2.63
11,642.00	90.00	181.20	9,235.60	-2,653.65	-28.16	2,653.78	0.97	-0.21	-0.95
11,737.00	88.80	181.00	9,236.60	-2,748.62	-29.98	2,748.78	1.28	-1.26	-0.21
11,832.00	89.80	180.60	9,237.76	-2,843.61	-31.31	2,843.77	1.13	1.05	-0.42
11,928.00	90.50	180.80	9,237.50	-2,939.60	-32.48	2,939.77	0.76	0.73	0.21
12,025.00	91.20	181.40	9,236.07	-3,036.57	-34.34	3,036.75	0.95	0.72	0.62
12,120.00	90.90	181.90	9,234.32	-3,131.51	-37.08	3,131.73	0.61	-0.32	0.53
12,215.00	90.70	182.00	9,233.00	-3,226.45	-40.31	3,226.70	0.24	-0.21	0.11
12,309.00	90.70	181.90	9,231.85	-3,320.39	-43.51	3,320.67	0.11	0.00	-0.11
12,404.00	90.30	181.70	9,231.02	-3,415.34	-46.49	3,415.65	0.47	-0.42	-0.21
12,499.00	91.00	181.30	9,229.94	-3,510.30	-48.98	3,510.64	0.85	0.74	-0.42
12,594.00	90.80	180.80	9,228.45	-3,605.27	-50.72	3,605.62	0.57	-0.21	-0.53
12,689.00	90.50	180.70	9,227.37	-3,700.25	-51.96	3,700.62	0.33	-0.32	-0.11
12,784.00	89.50	180.90	9,227.37	-3,795.24	-53.29	3,795.62	1.07	-1.05	0.21
12,879.00	87.90	180.70	9,229.53	-3,890.21	-54.61	3,890.59	1.70	-1.68	-0.21
12,975.00	87.40	180.70	9,233.46	-3,986.12	-55.78	3,986.51	0.52	-0.52	0.00
13,069.00	87.10	180.60	9,237.97	-4,080.00	-56.85	4,080.40	0.34	-0.32	-0.11
13,164.00	87.80	181.00	9,242.20	-4,174.90	-58.18	4,175.30	0.85	0.74	0.42
13,259.00	88.70	180.80	9,245.10	-4,269.84	-59.67	4,270.26	0.97	0.95	-0.21
13,354.00	91.60	180.50	9,244.85	-4,364.83	-60.74	4,365.25	3.07	3.05	-0.32
13,449.00	91.80	180.90	9,242.04	-4,459.78	-61.90	4,460.21	0.47	0.21	0.42
13,545.00	92.00	181.00	9,238.85	-4,555.71	-63.49	4,556.15	0.23	0.21	0.10
13,640.00	90.90	181.10	9,236.45	-4,650.66	-65.24	4,651.12	1.16	-1.16	0.11
13,735.00	89.60	180.80	9,236.03	-4,745.65	-66.81	4,746.12	1.40	-1.37	-0.32
13,830.00	87.90	180.30	9,238.11	-4,840.62	-67.72	4,841.09	1.87	-1.79	-0.53
13,925.00	90.60	180.40	9,239.35	-4,935.60	-68.30	4,936.07	2.84	2.84	0.11
14,020.00	89.70	180.00	9,239.10	-5,030.60	-68.63	5,031.06	1.04	-0.95	-0.42
14,115.00	89.60	179.90	9,239.68	-5,125.59	-68.55	5,126.05	0.15	-0.11	-0.11
14,210.00	89.40	179.80	9,240.51	-5,220.59	-68.30	5,221.03	0.24	-0.21	-0.11
14,305.00	89.80	179.80	9,241.17	-5,315.59	-67.97	5,316.02	0.42	0.42	0.00
Last Phoenix MWD Survey									
14,363.00	89.80	179.80	9,241.38	-5,373.59	-67.77	5,374.01	0.00	0.00	0.00
Projection to TD									



Phoenix Technology Services
Survey Report



Company:	BOPCO, L.P.	Local Co-ordinate Reference:	Well #1Y
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3323.00usft (Latshaw 14)
Site:	PLU Big Sinks 24-25-30 USA	MD Reference:	KB @ 3323.00usft (Latshaw 14)
Well:	#1Y	North Reference:	Grid
Wellbore:	WB3/Job #1311370	Survey Calculation Method:	Minimum Curvature
Design:	WB3/Job #1311370	Database:	GCR DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,928.00	9,244.46	-944.00	45.84	Tie-on to WB2	
14,305.00	9,241.17	-5,315.59	-67.97	Last Phoenix MWD Survey	
14,363.00	9,241.38	-5,373.59	-67.77	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
Phone (505) 993-8101 Fax: (505) 303-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1823 Fax: (505) 748-0750

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6178

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3400 Fax: (505) 478-3400

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

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 30-015-41693	Pool Code 96945	Pool Name UNDESIGNATED, BONE SPRING
Property Code 306402-40115	Property Name WILDCAT G-05 52630019; B.S.	Well Number 1Y-1
OCRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3301'

Surface Location

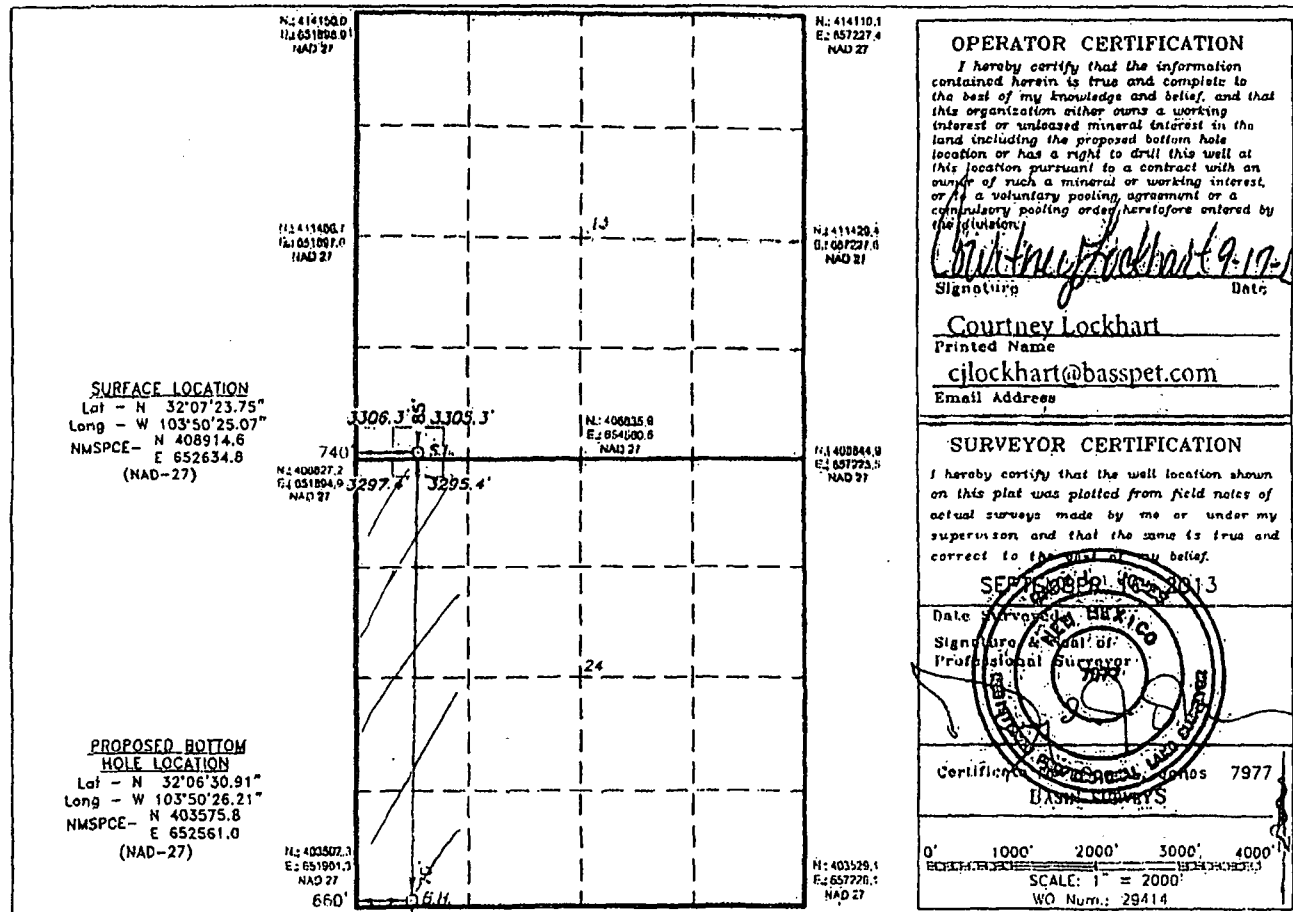
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	25 S	30 E		85	SOUTH	740	WEST	EDDY

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
M	24	25 S	30 E		70	SOUTH	660	WEST	EDDY

Dedicated Acres 11.0	Joint or Infill	Consolidation Code	Order No. NSL
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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



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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Courtney Lockhart
Signature Date

Courtney Lockhart
Printed Name
cjlockhart@basspet.com
Email Address

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.

SEP 10 2013
Date Surveyed
Courtney Lockhart
Signature
Professional Surveyor
Certificate No. 7977
DANIEL S. SWEET

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 29414

RECEIVED

JAN 22 2014

NMOCD ARTESIA