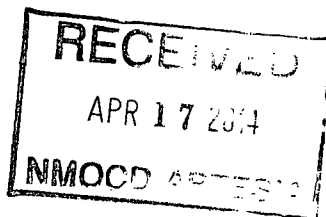




PHOENIX
TECHNOLOGY SERVICES

April 11, 2014

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 23-25-30 USA #1H
Eddy County, NM
API #30-015-41639
Job No. 1310463 (WB2)

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	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Mike Layfield	1H	8,699	17,120	3/8/14	4/3/14	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,

Dana Robinson
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 1738

DISTRICT I1625 N. French Dr., NM 88210
Phone:(505)393-8101 Fax:(505)393-0720**DISTRICT II**611 S. First St., Artesia, NM 88210
Phone:(505)745-1283 Fax:(505)745-9720**DISTRICT III**1000 Rio Bravos, Arleo, NM 87410
Phone:(505)334-6178 Fax:(505)334-6170**DISTRICT IV**1320 S. St. Francis Dr., Santa Fe, NM 87505
Phone:(505)476-3460 Fax:(505)476-3462State of New Mexico
Energy, Minerals and Natural Resources Department**OIL CONSERVATION DIVISION**1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office**WELL LOCATION AND ACREAGE DEDICATION PLAT**☒ AMENDED REPORT

API Number	Pool Code 96043	Pool Name WILDCAT (BONE SPRING)
Property Code 306402	Property Name PLU BIG SINKS 23 25 30 USA	Well Number 1H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3361'

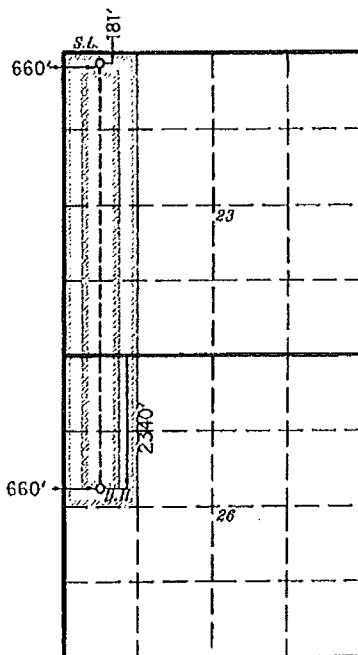
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	25 S	30 E		181	NORTH	660	WEST	EDDY

Bottom Hole 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
E	26	25 S	30 E		2340	NORTH	660	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

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
SURFACE LOCATION**
 Lat - N 32°07'21.13"
 Long - W 103°51'28.03"
 NADSPCE- N 408632.2
 E 647221.8
 (NAD-27)

SCALE 1"=3000'

**PROPOSED BOTTOM
HOLE LOCATION**
 Lat - N 32°06'07.09"
 Long - W 103°51'28.13"
 NADSPCE- N 401144.7
 E 647245.7
 (NAD-27)

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 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 _____

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.

JANUARY 10, 2014

Date Surveyed
Signature & seal of
Professional Surveyor 21062CHAD. A. GULICK
Certificate No. 21062

NALPF ASSOC., INC/COBB FENDLEY 29714-W017

PHOENIX TECHNOLOGY SERVICES INC. SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1310436 (WB2) OPERATOR Bopco, LP

WELL NAME PLU 23-25-30 USA #1H COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-41639

PROPOSED DIRECTION 179.82

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8,673 ft	8,670.71 ft	1.3	315.4	-22.93	12.23	Phoenix MWD Survey

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
8-Mar-14	8,699 ft	1.3	305.9

SURVEY INSTRUMENT
TYPE
PHOENIX MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
3-Apr-14	17,069 ft	92.9	178.9

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
3-Apr-14	17,120 ft	92.9	178.9

Michael Layfield

PRINT YOUR NAME ABOVE

Michael Layfield

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

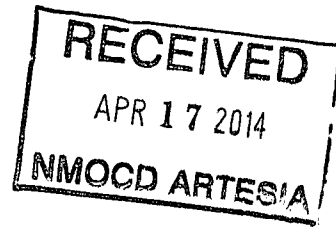
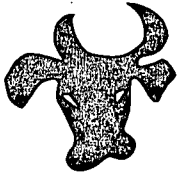
TOTAL CORRECTION USED	7.14
DECLINATION OR GRID	Grid

4/3/2014

TODAY'S DATE

MWD SUPERVISOR 1 Justin Amari DIRECTIONAL DRILLER 1 Casey Hendrix
MWD SUPERVISOR 2 Mike Layfield DIRECTIONAL DRILLER 2 Jim Tobola

1805 Britmore Road Houston, Texas 77043 (713)3370609 (Voice), (713)337-0599 (Fax)



BOPCO, L P

Eddy County, NM (NAD27 NME)

PLU Big Sinks 23-25-30 USA

#1H

WB2/Job #1310463

Survey: Phoenix WB2 MWD Survey

Standard Survey Report

04 April, 2014





Phoenix Technology Services

Survey Report



Company: BOPCO, L.P.
Project: Eddy County, NM (NAD27 NME)
Site: PLU Big Sinks 23-25-30 USA
Well: #1H
Wellbore: WB2/Job #1310463
Design: Surveys (Latshaw 14)

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #1H
KB @ 3383.00usft (Latshaw 14)
KB @ 3383.00usft (Latshaw 14)
Grid
Minimum Curvature
GCR DB

Project: Eddy County, NM (NAD27 NME)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site: PLU Big Sinks 23-25-30 USA

Site Position: Northing: 408,632.20 usft Latitude: 32° 7' 21.19180 N
From: Map Easting: 647,221.80 usft Longitude: 103° 51' 28.02580 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.25 °

Well: #1H

Well Position: +N/-S 0.00 usft Northing: 408,632.20 usft Latitude: 32° 7' 21.19180 N
+E/-W 0.00 usft Easting: 647,221.80 usft Longitude: 103° 51' 28.02580 W
Position Uncertainty: 0.00 usft Wellhead Elevation: usft Ground Level: 3,361.00 usft

Wellbore: WB2/Job #1310463

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/14/14	7.39	59.98	48,266

Design: Surveys (Latshaw 14)

Audit Notes:
Version: 1.0 Phase: ACTUAL Tie On Depth: 8,673.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
(usft) (usft) (usft) (°)
0.00 0.00 0.00 177.97

Survey Program: Date: 04/04/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,241.00	8,673.00	Phoenix WB1 MWD Survey (WB1/Job #13	MWD	MWD - Standard
8,673.00	17,120.00	Phoenix WB2 MWD Survey (WB2/Job #13	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)
8,673.00	1.30	315.40	8,670.71	-22.93	12.23	23.35	0.00	0.00	0.00
Tie-on to WB1									
8,699.00	1.30	305.90	8,696.70	-22.55	11.78	22.95	0.83	0.00	-36.54
First Phoenix WB2 MWD Survey									
8,794.00	1.50	283.30	8,791.67	-21.63	9.70	21.96	0.61	0.21	-23.79
8,889.00	0.60	273.90	8,886.65	-21.31	7.99	21.58	0.96	-0.95	-9.89
8,983.00	0.40	254.70	8,980.65	-21.36	7.19	21.60	0.27	-0.21	-20.43
9,078.00	4.00	162.10	9,075.57	-24.60	7.89	24.87	4.25	3.79	-97.47
9,173.00	6.80	158.00	9,170.14	-32.97	11.01	33.34	2.97	2.95	-4.32



Phoenix Technology Services

Survey Report



Company:	BOPCO, L.P.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County NM (NAD27 NME)	TVD Reference:	KB @ 3383.00usft (Latshaw 14)
Site:	PLU Big Sinks 23-25-30 USA	MD Reference:	KB @ 3383.00usft (Latshaw 14)
Well:	#1H	North Reference:	Grid
Wellbore:	WB2/Job #1310463	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	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)	
9,268.00	5.80	164.60	9,264.57	-42.82	14.39	43.30	1.30	-1.05	6.95	
9,331.00	5.60	171.60	9,327.26	-48.93	15.69	49.45	1.15	-0.32	11.11	
9,363.00	5.40	173.40	9,359.11	-51.97	16.09	52.50	0.83	-0.63	5.63	
9,395.00	6.50	170.70	9,390.94	-55.25	16.55	55.80	3.55	3.44	-8.44	
9,426.00	8.00	176.10	9,421.69	-59.13	16.99	59.70	5.31	4.84	17.42	
9,458.00	10.70	178.60	9,453.26	-64.33	17.21	64.90	8.53	8.44	7.81	
9,490.00	13.50	182.30	9,484.55	-71.03	17.13	71.59	9.08	8.75	11.56	
9,521.00	15.90	179.80	9,514.53	-78.89	17.00	79.45	8.01	7.74	-8.06	
9,553.00	18.50	180.50	9,545.10	-88.35	16.97	88.90	8.15	8.13	2.19	
9,584.00	21.10	181.00	9,574.26	-98.85	16.83	99.39	8.40	8.39	1.61	
9,617.00	23.70	181.20	9,604.77	-111.43	16.59	111.94	7.88	7.88	0.61	
9,649.00	26.20	180.70	9,633.78	-124.92	16.37	125.42	7.84	7.81	-1.56	
9,681.00	30.30	179.30	9,661.96	-140.06	16.38	140.56	12.98	12.81	-4.38	
9,712.00	35.60	177.50	9,687.97	-156.91	16.87	157.41	17.38	17.10	-5.81	
9,743.00	40.80	176.40	9,712.32	-176.04	17.90	176.57	16.92	16.77	-3.55	
9,775.00	45.20	176.10	9,735.72	-197.82	19.33	198.38	13.76	13.75	-0.94	
9,806.00	48.70	175.40	9,756.88	-220.40	21.01	221.01	11.41	11.29	-2.26	
9,838.00	51.40	174.40	9,777.42	-244.83	23.20	245.50	8.77	8.44	-3.13	
9,870.00	53.80	174.60	9,796.86	-270.14	25.63	270.88	7.52	7.50	0.63	
9,901.00	55.70	175.50	9,814.75	-295.36	27.81	296.16	6.57	6.13	2.90	
9,933.00	60.00	176.00	9,831.77	-322.37	29.82	323.22	13.50	13.44	1.56	
9,965.00	65.00	176.40	9,846.55	-350.68	31.70	351.59	15.66	15.63	1.25	
10,028.00	73.00	176.40	9,869.10	-409.33	35.39	410.33	12.70	12.70	0.00	
10,123.00	72.00	175.60	9,897.67	-499.71	41.71	500.88	1.32	-1.05	-0.84	
10,144.00	71.70	175.20	9,904.21	-519.61	43.31	520.81	2.31	-1.43	-1.90	
10,236.00	74.30	175.00	9,931.11	-607.26	50.82	608.68	2.83	2.83	-0.22	
10,267.00	77.60	175.00	9,938.63	-637.21	53.44	638.70	10.65	10.65	0.00	
10,298.00	80.80	175.70	9,944.44	-667.56	55.91	669.12	10.56	10.32	2.26	
10,328.00	83.10	177.20	9,948.64	-697.20	57.75	698.81	9.13	7.67	5.00	
10,358.00	86.00	178.00	9,951.49	-727.04	59.00	728.67	10.02	9.67	2.67	
10,452.00	92.60	182.20	9,952.64	-820.96	58.83	822.53	8.32	7.02	4.47	
10,542.00	92.70	183.80	9,948.48	-910.73	54.13	912.08	1.78	0.11	1.78	
10,634.00	90.40	185.10	9,945.99	-1,002.41	46.99	1,003.45	2.87	-2.50	1.41	
10,726.00	89.90	185.10	9,945.75	-1,094.05	38.81	1,094.74	0.54	-0.54	0.00	
10,819.00	88.90	185.90	9,946.72	-1,186.61	29.90	1,186.93	1.38	-1.08	0.86	
10,913.00	90.30	184.90	9,947.38	-1,280.19	21.05	1,280.13	1.83	1.49	-1.06	
11,005.00	90.20	184.10	9,946.98	-1,371.91	13.84	1,371.54	0.88	-0.11	-0.87	
11,099.00	90.40	184.00	9,946.49	-1,465.67	7.20	1,465.01	0.24	0.21	-0.11	
11,192.00	91.30	178.80	9,945.11	-1,558.60	4.93	1,557.80	5.67	0.97	-5.59	
11,285.00	91.60	178.40	9,942.75	-1,651.54	7.20	1,650.76	0.54	0.32	-0.43	
11,378.00	90.50	178.30	9,941.05	-1,744.49	9.87	1,743.74	1.19	-1.18	-0.11	
11,471.00	89.40	180.70	9,941.13	-1,837.47	10.69	1,836.70	2.84	-1.18	2.58	
11,563.00	91.10	179.90	9,940.73	-1,929.47	10.20	1,928.62	2.04	1.85	-0.87	



Phoenix Technology Services

Survey Report



Company:	BOPCO, L.P.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3383.00usft (Latshaw 14)
Site:	PLU Big Sinks 23-25-30 USA	MD Reference:	KB @ 3383.00usft (Latshaw 14)
Well:	#1H	North Reference:	Grid
Wellbore:	WB2/Job #1310463	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB

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)
11,655.00	91.40	180.50	9,938.72	-2,021.45	9.88	2,020.53	0.73	0.33	0.65
11,748.00	90.70	180.80	9,937.02	-2,114.42	8.83	2,113.41	0.82	-0.75	0.32
11,843.00	89.50	182.70	9,936.85	-2,209.37	5.93	2,208.20	2.37	-1.26	2.00
11,938.00	91.00	181.30	9,936.44	-2,304.31	2.61	2,302.95	2.16	1.58	-1.47
12,033.00	89.90	181.40	9,935.69	-2,399.28	0.37	2,397.78	1.16	-1.16	0.11
12,127.00	92.50	178.60	9,933.72	-2,493.24	0.37	2,491.69	4.06	2.77	-2.98
12,222.00	91.00	177.60	9,930.82	-2,588.14	3.52	2,586.64	1.90	-1.58	-1.05
12,316.00	92.00	178.40	9,928.36	-2,682.05	6.80	2,680.60	1.36	1.06	0.85
12,410.00	91.30	178.30	9,925.65	-2,775.97	9.51	2,774.56	0.75	-0.74	-0.11
12,505.00	89.80	174.90	9,924.74	-2,870.78	15.14	2,869.51	3.91	-1.58	-3.58
12,600.00	90.50	178.90	9,924.49	-2,965.62	20.28	2,964.48	4.27	0.74	4.21
12,695.00	90.30	178.90	9,923.83	-3,060.60	22.10	3,059.46	0.21	-0.21	0.00
12,789.00	92.00	181.40	9,921.94	-3,154.57	21.85	3,153.37	3.22	1.81	2.66
12,883.00	90.00	181.30	9,920.30	-3,248.53	19.64	3,247.18	2.13	-2.13	-0.11
12,978.00	90.90	181.60	9,919.56	-3,343.49	17.24	3,342.00	1.00	0.95	0.32
13,073.00	91.00	180.60	9,917.98	-3,438.46	15.41	3,436.85	1.06	0.11	-1.05
13,167.00	89.70	178.30	9,917.41	-3,532.45	16.31	3,530.81	2.81	-1.38	-2.45
13,261.00	91.70	179.20	9,916.26	-3,626.41	18.37	3,624.78	2.33	2.13	0.96
13,355.00	90.70	179.50	9,914.29	-3,720.38	19.43	3,718.74	1.11	-1.06	0.32
13,450.00	90.50	179.00	9,913.29	-3,815.37	20.67	3,813.71	0.57	-0.21	-0.53
13,545.00	90.10	179.80	9,912.80	-3,910.36	21.67	3,908.67	0.94	-0.42	0.84
13,639.00	89.30	179.70	9,913.29	-4,004.36	22.08	4,002.63	0.86	-0.85	-0.11
13,734.00	92.50	180.00	9,911.80	-4,099.33	22.33	4,097.55	3.38	3.37	0.32
13,828.00	92.30	180.20	9,907.86	-4,193.25	22.16	4,191.40	0.30	-0.21	0.21
13,922.00	92.00	180.30	9,904.33	-4,287.18	21.75	4,285.26	0.34	-0.32	0.11
14,017.00	91.30	180.50	9,901.60	-4,382.14	21.09	4,380.14	0.77	-0.74	0.21
14,112.00	90.40	180.30	9,900.19	-4,477.13	20.43	4,475.04	0.97	-0.95	-0.21
14,206.00	89.50	180.50	9,900.27	-4,571.13	19.77	4,568.96	0.98	-0.96	0.21
14,301.00	88.50	181.00	9,901.93	-4,666.10	18.53	4,663.83	1.18	-1.05	0.53
14,396.00	90.20	181.60	9,903.01	-4,761.07	16.37	4,758.66	1.90	1.79	0.63
14,491.00	89.70	180.90	9,903.09	-4,856.04	14.30	4,853.50	0.91	-0.53	-0.74
14,585.00	88.70	181.00	9,904.40	-4,950.02	12.74	4,947.36	1.07	-1.06	0.11
14,680.00	90.80	182.30	9,904.82	-5,044.97	10.01	5,042.16	2.60	2.21	1.37
14,774.00	90.30	182.40	9,903.92	-5,138.89	6.15	5,135.88	0.54	-0.53	0.11
14,868.00	89.40	182.50	9,904.16	-5,232.80	2.14	5,229.59	0.96	-0.96	0.11
14,963.00	88.60	182.30	9,905.82	-5,327.70	-1.84	5,324.29	0.87	-0.84	-0.21
15,057.00	88.50	179.60	9,908.20	-5,421.65	-3.40	5,418.13	2.87	-0.11	-2.87
15,152.00	88.50	178.00	9,910.69	-5,516.59	-1.41	5,513.08	1.68	0.00	-1.68
15,247.00	89.90	178.40	9,912.01	-5,611.54	1.57	5,608.07	1.53	1.47	0.42
15,342.00	90.20	179.90	9,911.93	-5,706.52	2.98	5,703.04	1.61	0.32	1.58
15,437.00	89.90	179.70	9,911.85	-5,801.52	3.31	5,798.00	0.38	-0.32	-0.21
15,531.00	90.70	180.00	9,911.35	-5,895.52	3.56	5,891.94	0.91	0.85	0.32
15,626.00	89.10	179.10	9,911.52	-5,990.51	4.31	5,986.90	1.93	-1.68	-0.95
15,720.00	89.80	179.00	9,912.42	-6,084.49	5.86	6,080.88	0.75	0.74	-0.11



Phoenix Technology Services
Survey Report



Company: BOPCO, L.P.
Project: Eddy County, NM (NAD27 NME)
Site: PLU Big Sinks 23-25-30 USA
Well: #1H
Wellbore: WB2/Job #1310463
Design: Surveys (Latshaw 14)

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
KB @ 3383.00usft (Latshaw 14)
KB @ 3383.00usft (Latshaw 14)
Grid
Minimum Curvature
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)
15,815.00	90.20	178.70	9,912.42	-6,179.47	7.77	6,175.87	0.53	0.42	-0.32
15,909.00	90.50	178.40	9,911.85	-6,273.44	10.15	6,269.86	0.45	0.32	-0.32
16,004.00	90.60	178.50	9,910.94	-6,368.40	12.72	6,364.86	0.15	0.11	-0.11
16,099.00	90.90	178.40	9,909.69	-6,463.36	15.29	6,459.84	0.33	0.32	-0.11
16,193.00	90.70	176.70	9,908.38	-6,557.26	19.31	6,553.83	1.82	-0.21	-1.81
16,288.00	90.50	175.40	9,907.38	-6,652.03	25.85	6,648.77	1.38	-0.21	-1.37
16,382.00	91.00	176.90	9,906.15	-6,745.81	32.16	6,742.71	1.68	0.53	1.60
16,476.00	91.40	176.50	9,904.19	-6,839.63	37.57	6,836.67	0.60	0.43	-0.43
16,570.00	90.30	176.80	9,902.79	-6,933.46	43.06	6,930.63	1.21	-1.17	0.32
16,664.00	92.40	178.20	9,900.58	-7,027.33	47.16	7,024.59	2.68	2.23	1.49
16,758.00	93.00	179.00	9,896.15	-7,121.20	49.46	7,118.48	1.06	0.64	0.85
16,853.00	92.50	179.80	9,891.59	-7,216.08	50.45	7,213.34	0.99	-0.53	0.84
16,947.00	92.30	179.30	9,887.65	-7,310.00	51.19	7,307.22	0.57	-0.21	-0.53
17,041.00	92.70	178.90	9,883.55	-7,403.90	52.66	7,401.11	0.60	0.43	-0.43
17,069.00	92.90	178.90	9,882.19	-7,431.86	53.20	7,429.08	0.71	0.71	0.00
Last Phoenix WB2 MWD Survey									
17,120.00	92.90	178.90	9,879.61	-7,482.78	54.18	7,480.00	0.00	0.00	0.00
Projection to TD:									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,673.00	8,670.71	-22.93	12.23	Tie-on to WB1
8,699.00	8,696.70	-22.55	11.78	First Phoenix WB2 MWD Survey
17,069.00	9,882.19	-7,431.86	53.20	Last Phoenix WB2 MWD Survey
17,120.00	9,879.61	-7,482.78	54.18	Projection to TD

Checked By: _____ Approved By: _____ Date: _____