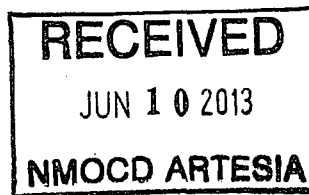




**PHOENIX
TECHNOLOGY SERVICES**

June 4, 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 1-25-30 USA 1H
Eddy County, NM
API #30-015-40766
Job No. 1310426

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	1H	1,069	13,908	05/10/13	05/25/13	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 8417

PHOENIX TECHNOLOGY SERVICES INC.
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1310426

OPERATOR BOPCO

WELL NAME PLU Big Sinks 1-25-30 USA 1H

COUNTY & STATE

Eddy Co., NM

API WELL NUMBER	30-015-40766
-----------------	--------------

PROPOSED DIRECTION	0.17
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TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
1,069 ft	1,068.91 ft	0.4	332.2	-1.22	2.14	Phoenix MWD

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
10-May-13	1,069 ft	0.4	332.2

SURVEY INSTRUMENT TYPE
PHOENIX P-360 MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
25-May-13	13,908 ft	93.7	359

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
25-May-13	13,996 ft	93.7	359

Spencer Brown
PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID	
TOTAL CORRECTION USED	7.22
DECLINATION OR GRID	Grid

25-May
TODAY'S DATE

MWD SUPERVISOR 1 Spencer Brown DIRECTIONAL DRILLER 1 Brady Welch
MWD SUPERVISOR 2 Brent Shaw DIRECTIONAL DRILLER 2 Clinton Lambert

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



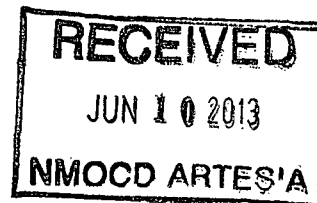
Bopco L P

Eddy County, NM (NAD27 NME)

PLU Big Sinks 1-25-30 USA

#1H

OH / Job #1310426



Survey: Phoenix MWD Surveys

Phoenix Final Survey Report

29 May, 2013





Phoenix Technology Services
Phoenix Final Survey Report



Company:	Bopco L P	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3382.00usft (Latshaw 14)
Site:	PLU Big Sinks 1-25-30 USA	MD Reference:	KB @ 3382.00usft (Latshaw 14)
Well:	#1H	North Reference:	Grid
Wellbore:	OH / Job #1310426	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	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 1-25-30 USA				
Site Position:	Northing:	419,635.00 usft	Latitude:	32° 9' 9.780152 N	
From: Map	Easting:	653,871.00 usft	Longitude:	103° 50' 10.117165 W	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.26 °

Well	#1H				
Well Position	+N/-S	0.00 usft	Northing:	419,635.00 usft	
	+E/-W	0.00 usft	Easting:	653,871.00 usft	
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,362.00 usft

Wellbore	OH / Job #1310426			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	04/08/13	7.48	60.03	48,363

Design	Surveys (Latshaw 14)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	0.17	

Survey Program	Date: 05/29/13			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
71.50	956.00	VES Gyro (OH / Job #1310426)	ISCWSA-GYRO-3	Biaxial Semi-Cont. Gyro
1,069.00	13,996.00	Phoenix MWD Surveys (OH / Job #131042)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
956.00	0.35	332.71	955.92	-1.88	2.48	-1.87	0.00
Tie-on to VES Gyro							
1,069.00	0.40	332.20	1,068.91	-1.22	2.14	-1.21	0.04
Phoenix First MWD Survey							
1,259.00	0.60	329.70	1,258.91	0.23	1.33	0.23	0.11
1,449.00	1.60	326.40	1,448.87	3.29	-0.64	3.29	0.53
1,639.00	1.00	340.90	1,638.82	7.07	-2.65	7.06	0.36
1,830.00	1.80	0.00	1,829.76	11.64	-3.20	11.64	0.48
2,020.00	0.70	49.00	2,019.72	15.39	-2.32	15.38	0.76
2,210.00	1.50	71.50	2,209.68	16.94	0.91	16.94	0.47
2,400.00	0.30	109.00	2,399.66	17.57	3.74	17.58	0.67



Phoenix Technology Services
Phoenix Final Survey Report



Company:	Bopco L.P.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3382.00usft (Latshaw 14)
Site:	PLU: Big Sinks 1-25-30 USA	MD Reference:	KB @ 3382.00usft (Latshaw 14)
Well:	#1H	North Reference:	Grid
Wellbore:	OH / Job #1310426	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
2,590.00	0.50	105.70	2,589.65	17.18	5.01	17.20	0.11
2,780.00	1.10	87.40	2,779.63	17.04	7.63	17.06	0.34
2,970.00	1.60	72.90	2,969.58	17.90	11.99	17.94	0.32
3,160.00	2.10	47.90	3,159.48	21.02	17.11	21.07	0.49
3,351.00	1.60	57.10	3,350.38	24.81	21.94	24.88	0.30
3,541.00	2.50	94.00	3,540.27	25.96	28.30	26.05	0.82
3,731.00	1.70	157.30	3,730.16	23.07	33.53	23.17	1.21
3,921.00	2.10	277.50	3,920.11	20.93	31.16	21.02	1.74
4,113.00	2.40	310.30	4,111.97	23.99	24.61	24.06	0.68
4,303.00	1.00	345.70	4,301.88	28.17	21.16	28.23	0.89
4,493.00	1.10	355.70	4,491.85	31.59	20.62	31.65	0.11
4,682.00	0.90	354.40	4,680.82	34.88	20.34	34.94	0.11
4,872.00	0.70	348.50	4,870.81	37.50	19.96	37.56	0.11
5,061.00	0.80	322.80	5,059.79	39.68	18.93	39.74	0.18
5,535.00	0.70	310.00	5,533.75	44.18	14.71	44.22	0.04
6,010.00	0.70	291.20	6,008.71	47.09	9.78	47.12	0.05
6,201.00	0.70	246.90	6,199.70	47.06	7.62	47.08	0.28
6,390.00	0.60	217.50	6,388.69	45.82	5.96	45.84	0.18
6,580.00	0.60	235.90	6,578.68	44.47	4.53	44.49	0.10
6,770.00	0.50	249.70	6,768.67	43.63	2.93	43.64	0.09
6,959.00	0.70	243.80	6,957.66	42.83	1.12	42.84	0.11
7,149.00	0.60	229.80	7,147.65	41.68	-0.68	41.68	0.10
7,339.00	1.00	206.10	7,337.63	39.55	-2.17	39.54	0.27
7,529.00	1.10	184.80	7,527.60	36.24	-3.05	36.23	0.21
7,719.00	1.00	187.30	7,717.57	32.78	-3.42	32.77	0.06
7,909.00	0.70	177.50	7,907.55	29.97	-3.58	29.96	0.17
8,099.00	0.40	225.80	8,097.54	28.35	-4.00	28.34	0.28
8,289.00	1.40	262.20	8,287.51	27.58	-6.78	27.55	0.58
8,478.00	0.70	263.70	8,476.48	27.14	-10.21	27.10	0.37
8,668.00	1.40	166.20	8,666.46	24.75	-10.81	24.72	0.87
8,784.00	1.50	210.20	8,782.42	22.07	-11.24	22.03	0.94
8,838.00	1.10	256.00	8,836.41	21.33	-12.10	21.29	1.99
8,869.00	4.60	347.50	8,867.38	22.47	-12.65	22.43	15.35
8,901.00	9.00	5.00	8,899.15	26.22	-12.71	26.18	15.04
8,933.00	12.00	7.90	8,930.61	32.01	-12.04	31.97	9.52
8,964.00	12.00	3.20	8,960.93	38.42	-11.42	38.39	3.15
8,996.00	12.60	0.90	8,992.20	45.23	-11.17	45.20	2.42
9,028.00	13.50	1.50	9,023.37	52.45	-11.02	52.42	2.84
9,060.00	13.00	358.30	9,054.52	59.79	-11.03	59.75	2.77
9,091.00	14.20	356.70	9,084.65	67.07	-11.35	67.03	4.06
9,123.00	19.80	357.00	9,115.24	76.41	-11.86	76.37	17.50
9,155.00	25.40	357.50	9,144.77	88.68	-12.45	88.65	17.51
9,187.00	30.90	358.10	9,172.97	103.76	-13.02	103.73	17.21
9,219.00	36.70	359.30	9,199.55	121.55	-13.41	121.51	18.24



Phoenix Technology Services
Phoenix Final Survey Report



Company:	Bopco L P	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County: NM (NAD27 NME)	TVD Reference:	KB @ 3382.00usft (Latshaw 14)
Site:	PLU Big Sinks 1-25-30 USA	MD Reference:	KB @ 3382.00usft (Latshaw 14)
Well:	#1H	North Reference:	Grid
Wellbore:	OH// Job #1310426	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Latshaw 14)	Database:	GCR DB

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
9,250.00	41.00	359.00	9,223.69	140.99	-13.70	140.95	13.88
9,281.00	44.90	358.90	9,246.38	162.11	-14.09	162.06	12.58
9,313.00	49.40	0.50	9,268.13	185.56	-14.20	185.52	14.53
9,345.00	54.10	1.20	9,287.94	210.68	-13.82	210.64	14.79
9,376.00	59.30	0.80	9,304.95	236.58	-13.37	236.54	16.81
9,408.00	64.30	1.00	9,320.07	264.77	-12.93	264.73	15.63
9,441.00	68.10	0.20	9,333.39	294.95	-12.61	294.91	11.73
9,472.00	73.10	359.40	9,343.68	324.18	-12.72	324.14	16.31
9,504.00	77.80	0.00	9,351.72	355.15	-12.88	355.11	14.80
9,536.00	82.70	358.60	9,357.13	386.67	-13.27	386.63	15.91
9,567.00	87.00	357.80	9,359.92	417.52	-14.24	417.48	14.11
9,631.00	89.40	357.00	9,361.93	481.42	-17.14	481.37	3.95
9,725.00	91.10	359.00	9,361.52	575.35	-20.42	575.29	2.79
9,821.00	90.50	359.80	9,360.18	671.34	-21.43	671.27	1.04
9,915.00	89.50	359.60	9,360.18	765.34	-21.92	765.27	1.08
10,010.00	90.30	0.50	9,360.34	860.33	-21.83	860.27	1.27
10,105.00	90.60	0.60	9,359.60	955.33	-20.92	955.26	0.33
10,200.00	90.20	0.70	9,358.93	1,050.32	-19.85	1,050.25	0.43
10,296.00	89.00	0.50	9,359.60	1,146.31	-18.84	1,146.25	1.27
10,391.00	89.20	1.60	9,361.09	1,241.28	-17.10	1,241.22	1.18
10,486.00	88.00	1.10	9,363.42	1,336.22	-14.86	1,336.17	1.37
10,581.00	89.10	1.10	9,365.82	1,431.17	-13.04	1,431.13	1.16
10,676.00	90.60	0.90	9,366.07	1,526.16	-11.38	1,526.12	1.59
10,770.00	90.40	0.80	9,365.25	1,620.14	-9.99	1,620.11	0.24
10,865.00	90.50	0.50	9,364.50	1,715.13	-8.91	1,715.10	0.33
10,961.00	90.90	0.30	9,363.33	1,811.12	-8.24	1,811.09	0.47
11,055.00	90.50	0.40	9,362.18	1,905.11	-7.66	1,905.08	0.44
11,150.00	90.80	0.70	9,361.10	2,000.10	-6.75	2,000.07	0.45
11,245.00	92.00	1.00	9,358.78	2,095.06	-5.34	2,095.04	1.30
11,340.00	91.40	0.60	9,355.96	2,190.01	-4.02	2,189.99	0.76
11,436.00	90.60	0.60	9,354.29	2,285.99	-3.01	2,285.97	0.83
11,531.00	89.20	358.90	9,354.45	2,380.98	-3.43	2,380.96	2.32
11,626.00	90.50	359.00	9,354.70	2,475.97	-5.17	2,475.94	1.37
11,722.00	89.40	359.00	9,354.79	2,571.95	-6.84	2,571.92	1.15
11,817.00	90.20	359.80	9,355.12	2,666.94	-7.84	2,666.91	1.19
11,912.00	90.50	0.40	9,354.54	2,761.94	-7.67	2,761.90	0.71
12,007.00	90.20	0.10	9,353.96	2,856.94	-7.26	2,856.90	0.45
12,102.00	89.10	0.00	9,354.54	2,951.93	-7.17	2,951.90	1.16
12,197.00	89.70	0.30	9,355.53	3,046.93	-6.93	3,046.89	0.71
12,293.00	90.40	0.10	9,355.45	3,142.93	-6.59	3,142.89	0.76
12,387.00	89.20	359.70	9,355.78	3,236.92	-6.76	3,236.89	1.35
12,483.00	91.50	1.40	9,355.19	3,332.91	-5.83	3,332.87	2.98
12,578.00	91.30	1.00	9,352.87	3,427.86	-3.84	3,427.83	0.47
12,673.00	90.70	0.40	9,351.21	3,522.84	-2.68	3,522.81	0.89



Phoenix Technology Services
Phoenix Final Survey Report



Company: Bopco LP	Local Co-ordinate Reference: Well #1H
Project: Eddy County, NM (NAD27 NME)	TVD Reference: KB @ 3382.00usft (Latshaw 14)
Site: PLU Big Sinks 1-25-30 USA	MD Reference: KB @ 3382.00usft (Latshaw 14)
Well: #1H	North Reference: Grid
Wellbore: OH / Job #1310426	Survey Calculation Method: Minimum Curvature
Design: Surveys (Latshaw 14)	Database: GCR-DB

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
12,768.00	89.90	359.90	9,350.71	3,617.83	-2.44	3,617.81	0.99
12,862.00	90.10	0.30	9,350.71	3,711.83	-2.27	3,711.81	0.48
12,958.00	90.50	0.50	9,350.21	3,807.83	-1.60	3,807.81	0.47
13,053.00	89.10	0.40	9,350.54	3,902.82	-0.86	3,902.80	1.48
13,148.00	89.50	0.40	9,351.70	3,997.81	-0.19	3,997.79	0.42
13,243.00	92.40	359.90	9,350.13	4,092.79	0.06	4,092.77	3.10
13,338.00	93.70	359.30	9,345.07	4,187.65	-0.61	4,187.63	1.51
13,433.00	93.90	359.00	9,338.78	4,282.43	-2.01	4,282.41	0.38
13,528.00	93.30	0.40	9,332.81	4,377.24	-2.51	4,377.21	1.60
13,623.00	92.20	359.70	9,328.25	4,472.13	-2.43	4,472.10	1.37
13,718.00	92.70	359.70	9,324.19	4,567.04	-2.92	4,567.01	0.53
13,813.00	93.40	359.40	9,319.14	4,661.90	-3.67	4,661.87	0.80
13,908.00	93.70	359.00	9,313.26	4,756.71	-4.99	4,756.67	0.53
Phoenix Last MWD Survey							
13,996.00	93.70	359.00	9,307.58	4,844.51	-6.52	4,844.47	0.00
Projection to TD							

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
956.00	955.92	-1.88	2.48	Tie-on to VES Gyro
1,069.00	1,068.91	-1.22	2.14	Phoenix First MWD Survey
13,908.00	9,313.26	4,756.71	-4.99	Phoenix Last MWD Survey
13,996.00	9,307.58	4,844.51	-6.52	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED
 JUN 10 2013
 NMOC D ARTESIA

District I
 1625 N. French Dr., Hobbs, NM 88340
 Phone: (575) 393-6161 Fax: (575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone: (575) 748-1283 Fax: (575) 748-0720
District III
 1000 Rio Brazos Road, Aztec, 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		² Pool Code		³ Pool Name WC; G-06 S2530020; BONE SPRING	
⁴ Property Code		⁵ Property Name PLU BIG SINKS 1 25 30 USA		⁶ Well Number 1H	
⁷ OGRID No. 147179		⁸ Operator Name CHESAPEAKE OPERATING, INC.		⁹ Elevation 3362'	

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
N	I	25S	30E		150'	SOUTH	1980'	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
3	I	25S	30E		330'	NORTH	1980'	WEST	EDDY

¹² Dedicated Acres 160.50	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.

<p>Project Area Producing Area 183.16 ACRES N 00°09'19"E 4856.79' 150' 1980' 330' 1980'</p>	<p>PROPOSED BOTTOM HOLE LOCATION</p> <p>X= 653,885 NAD 27 Y= 424,492 LAT. 32.168067 LONG. 103.836027</p> <p>X= 695,089 NAD83 Y= 424,550 LAT. 32.168191 LONG. 103.836510</p>	<p>" OPERATOR CERTIFICATION</p> <p>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 vertical 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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the district.</p> <p>Signature: <i>Bryan Arrant</i> Date: 06/25/2012 Printed Name: Bryan Arrant E-mail Address: bryan.arrant@chk.com</p>
	<p>PLU BIG SINKS 1 25 30 USA NO. 1H WELL</p> <p>X= 653,871 NAD 27 Y= 419,635 LAT. 32.152717 LONG. 103.836142</p> <p>X= 695,056 NAD83 Y= 419,693 LAT. 32.152841 LONG. 103.836824</p> <p>ELEVATION +3362 NAVD 88</p>	<p>"SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey: 6/25/2012 Signature and Seal of Registered Professional Surveyor: <i>[Signature]</i> Certificate Number: #15078</p>

EXHIBIT A1

PLU BIG SINKS 1-25-30 USA NO. 1H				
X= 653,871 NAD 27	NW ARCH. AREA CRN. X= 653,569 NAD 27	NE ARCH. AREA CRN. X= 654,169 NAD 27	SE ARCH. AREA CRN. X= 654,174 NAD 27	SW ARCH. AREA CRN. X= 653,574 NAD 27
Y= 419,635	Y= 419,908	Y= 419,912	Y= 419,312	Y= 419,308
LAT. 32.152717	NW PAD CRN.		NE PAD CRN.	
LONG. 103.836142	X= 653,706 NAD 27	X= 654,035 NAD 27	X= 654,038 NAD 27	X= 653,708 NAD 27
X= 695,056 NAD83	Y= 419,759	Y= 419,761	Y= 419,461	Y= 419,459
Y= 419,693	ELEVATION +3362' NAVD 88	ELEVATION +3366' NAVD 88	ELEVATION +3360' NAVD 88	ELEVATION +3359' NAVD 88
LAT. 32.152841				
LONG. 103.836624				
ELEVATION +3362' NAVD 88				

R 30 E

T 25 S

Sec. 1

BLM

PROPOSED ACCESS ROAD
20' X 1929'
±0.43 Acres

PROPOSED ACCESS
(STAKED BY OTHERS)

PROPOSED ARCHEOLOGICAL AREA
±6.00 Acres

Plu Big Sinks 1-25-30 USA
No. 1H Well

PROPOSED PAD
±2.27 Acres

Sec. 12

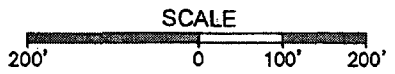
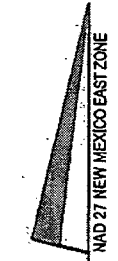
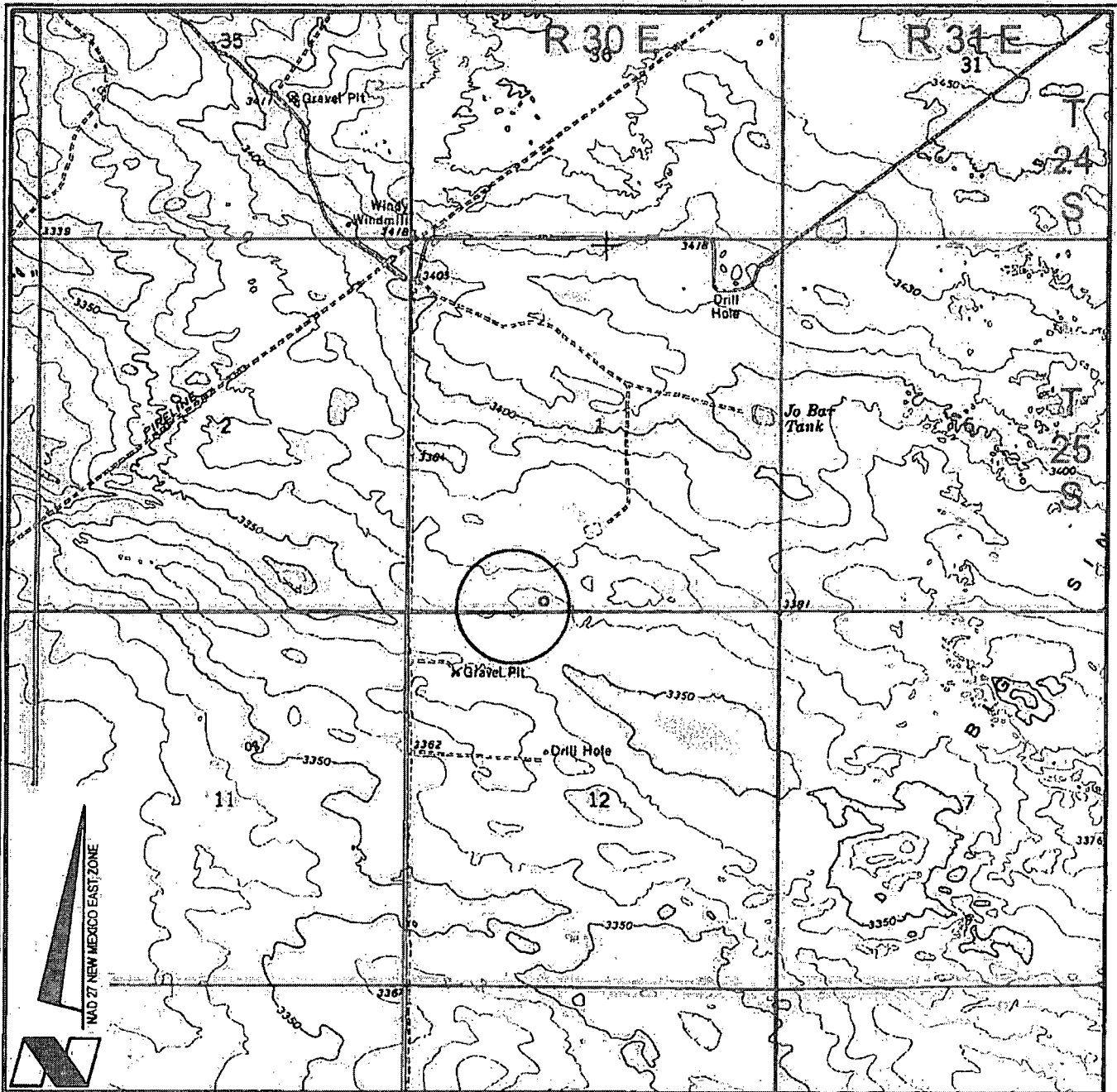


EXHIBIT A2

CHESAPEAKE OPERATING, INC.
PROPOSED PAD & ACCESS ROAD
PLU BIG SINKS 1-25-30 USA NO. 1H WELL
SEC. 01 & 12, T25S-R30E
EDDY COUNTY, NEW MEXICO

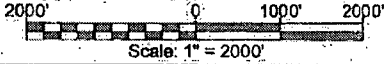
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PROJ. MGR.: DBM	No.	DATE:	REVISED BY:
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FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com



NOTE:
 THE CONTENTS OF THESE PLANS ARE INTENDED
 EXCLUSIVELY FOR THE PURPOSE OF OBTAINING
 ENVIRONMENTAL COMPLIANCE PERMITS

VICINITY MAP



CHESAPEAKE OPERATING, INC.
 PLU BIG SINKS 1-25-30 USA NO. 1H WELL
 LOCATED 150' FSL AND 1980' FWL
 SECTIONS 1 & 12, T25S-R30E
 EDDY COUNTY, NEW MEXICO



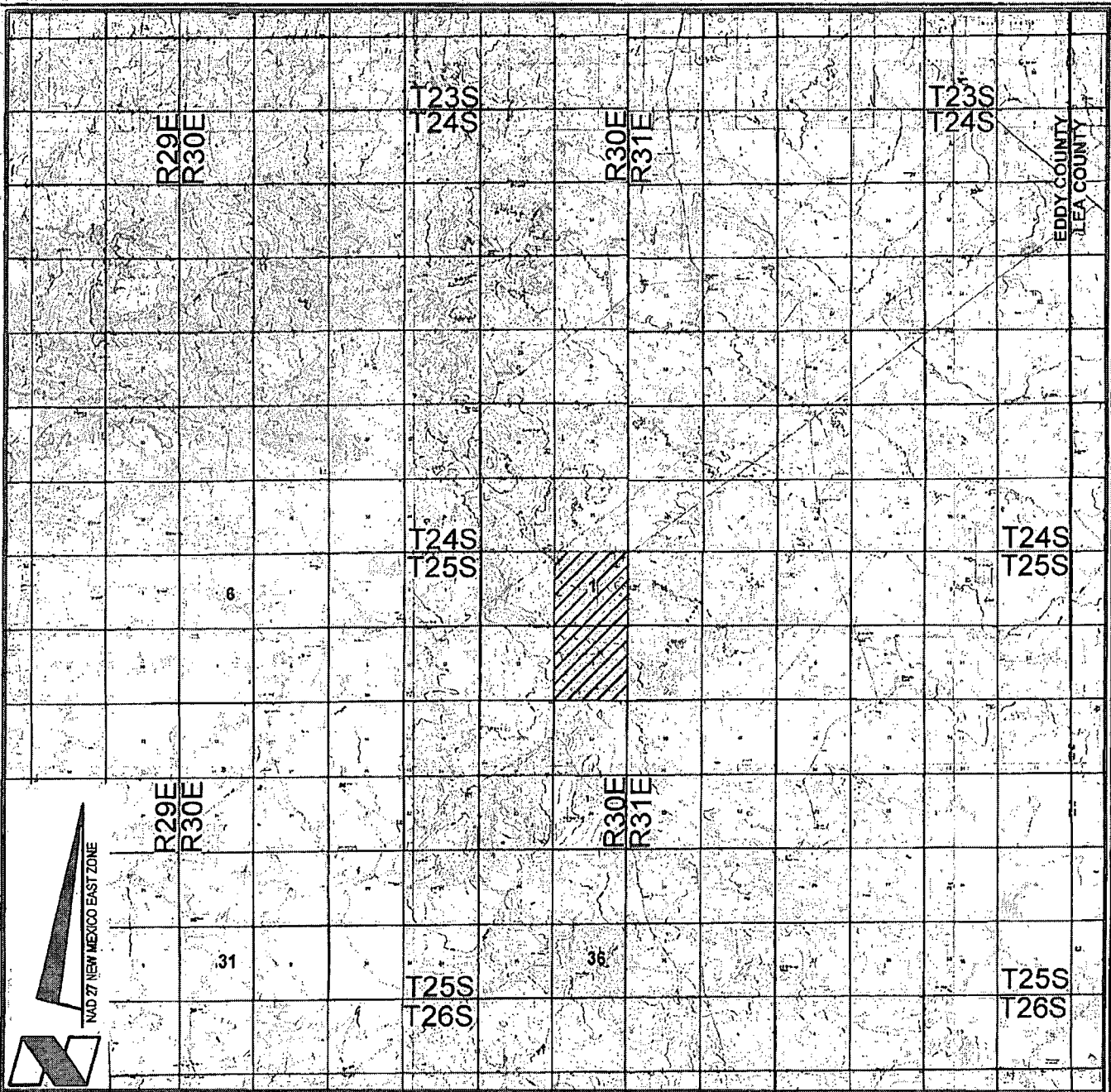
Lafayette New Orleans Houston
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2200 Fax. 337-232-3299
 www.fenstermaker.com

DRAWN BY: BOF
 PROJ. MGR.: DBM

REVISED:
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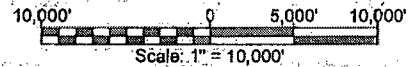
DATE: MAY 16, 2012
 SHEET 1 OF 3 SHEETS

EXHIBIT A3



NOTE:
 THE CONTENTS OF THESE PLANS ARE INTENDED
 EXCLUSIVELY FOR THE PURPOSE OF OBTAINING
 ENVIRONMENTAL COMPLIANCE PERMITS

VICINITY MAP



CHESAPEAKE OPERATING, INC.

PLU BIG SINKS 1-25-30 USA NO. 1H WELL
 LOCATED 150' FSL AND 1980' FWL
 SECTIONS 1 & 12, T25S-R30E
 EDDY COUNTY, NEW MEXICO



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 136 Regency Sq. Lafayette, LA 70508
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DRAWN BY: BOF

REVISED:

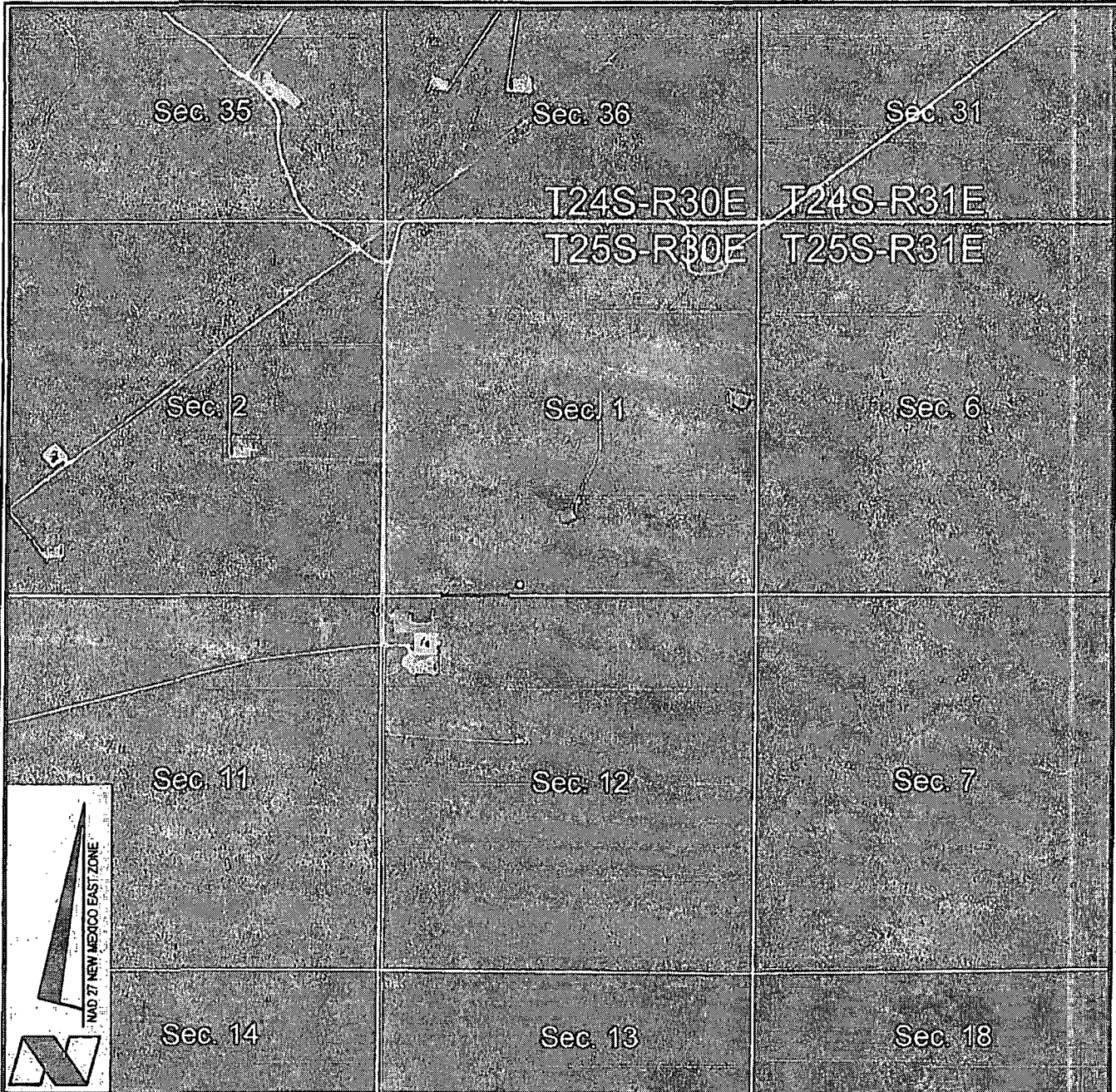
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PROJ. MGR.: DBM




SHEET 2 OF 3 SHEETS

FILENAME: T:\2012\2124892\DWG\Big Sinks 1-25-30 USA 1H APD.dwg

EXHIBIT A9



NOTE:
THE CONTENTS OF THESE PLANS ARE INTENDED
EXCLUSIVELY FOR THE PURPOSE OF OBTAINING
ENVIRONMENTAL COMPLIANCE PERMITS

-  = FEDERAL LAND
-  = FEE LAND
-  = STATE LAND

CHESAPEAKE OPERATING, INC.
 PLU BIG SINKS 1-25-30 USA NO. 1H WELL
 LOCATED 150' FSL AND 1980' FWL
 SECTIONS 1 & 12, T25S-R30E
 EDDY COUNTY, NEW MEXICO



Lafayette New Orleans Houston
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2200 Fax. 337-232-3299
 www.fenstermaker.com

DRAWN BY: BOF
 PROJ. MGR.: DBM

REVISED:

DATE: MAY 16, 2012
 SHEET 3 OF 3 SHEETS

FILENAME: T:\2012\124892\DWG\Big Sinks.1-25-30 USA 1H APD.dwg

EXHIBIT A5

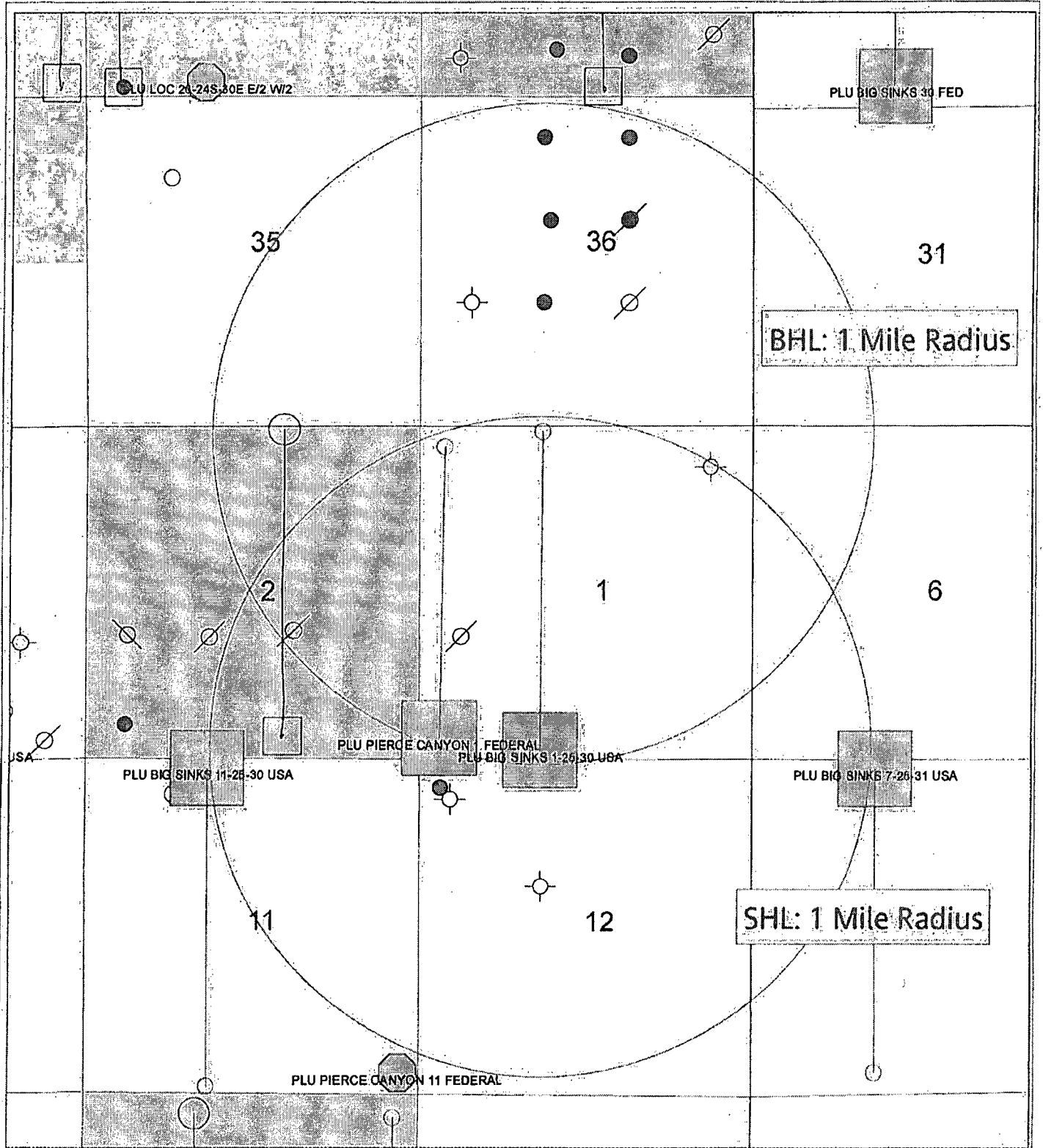
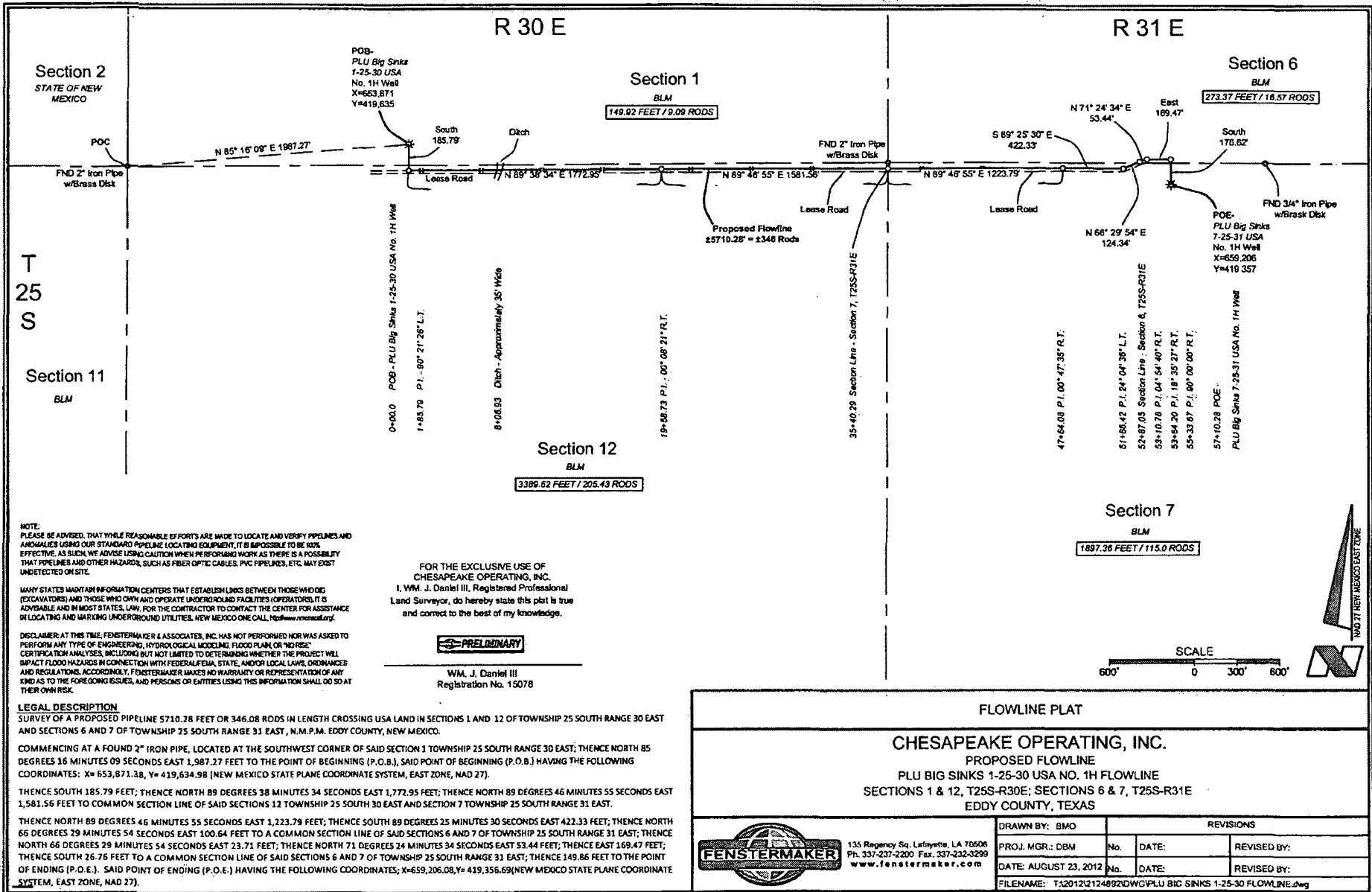


EXHIBIT **B**

	CITESAPEAKE OPERATING, INC.
	Piedmont Delaware Basin PLU Big Sinks 1-25-30 USA 1H Eddy, NM
<small>PLU Big Sinks 1-25-30 USA 1H 11/15/2014 Date: 27 Apr, 2017 Created By: Megan Hill</small>	



NOTE:
PLEASE BE ADVISED, THAT WHILE REASONABLE EFFORTS ARE MADE TO LOCATE AND VERIFY PIPELINES AND ANOMALIES USING OUR STANDARD PIPELINE LOCATING EQUIPMENT, IT IS IMPOSSIBLE TO BE 100% EFFECTIVE. AS SUCH, WE ADVISE USING CAUTION WHEN PERFORMING WORK AS THERE IS A POSSIBILITY THAT PIPELINES AND OTHER HAZARDS, SUCH AS FIBER OPTIC CABLES, PVC PIPELINES, ETC. MAY EXIST UNDETECTED ON SITE.

MANY STATES MAINTAIN INFORMATION CENTERS THAT ESTABLISH LINKS BETWEEN THOSE WHO DIG (EXCAVATORS) AND THOSE WHO OWN AND OPERATE UNDERGROUND FACILITIES (OPERATORS). IT IS ADVISABLE AND IN MOST STATES, LAW, FOR THE CONTRACTOR TO CONTACT THE CENTER FOR ASSISTANCE IN LOCATING AND MARKING UNDERGROUND UTILITIES. NEW MEXICO ONE CALL, <http://www.onecall.org>.

DISCLAIMER: AT THIS TIME, FENSTERMAKER & ASSOCIATES, INC. HAS NOT PERFORMED NOR WAS ASKED TO PERFORM ANY TYPE OF ENGINEERING, HYDROLOGICAL MODELING, FLOOD PLAN, OR "NO RISK" CERTIFICATION ANALYSES, INCLUDING BUT NOT LIMITED TO DETERMINING WHETHER THE PROJECT WILL IMPACT FLOOD HAZARDS IN CONNECTION WITH FEDERAL, STATE, AND/OR LOCAL LAWS, ORDINANCES AND REGULATIONS. ACCORDINGLY, FENSTERMAKER MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND AS TO THE FOREGOING ISSUES, AND PERSONS OR ENTITIES USING THIS INFORMATION SHALL DO SO AT THEIR OWN RISK.

LEGAL DESCRIPTION

SURVEY OF A PROPOSED PIPELINE 5710.28 FEET OR 346.08 RODS IN LENGTH CROSSING USA LAND IN SECTIONS 1 AND 12 OF TOWNSHIP 25 SOUTH RANGE 30 EAST AND SECTIONS 6 AND 7 OF TOWNSHIP 25 SOUTH RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO.

COMMENCING AT A FOUND 2" IRON PIPE, LOCATED AT THE SOUTHWEST CORNER OF SAID SECTION 1 TOWNSHIP 25 SOUTH RANGE 30 EAST; THENCE NORTH 85 DEGREES 16 MINUTES 09 SECONDS EAST 1,987.27 FEET TO THE POINT OF BEGINNING (P.O.B.), SAID POINT OF BEGINNING (P.O.B.) HAVING THE FOLLOWING COORDINATES: X=853,871.38, Y=419,634.98 (NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 27).

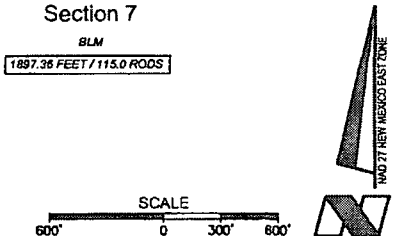
THENCE SOUTH 185.79 FEET; THENCE NORTH 89 DEGREES 38 MINUTES 34 SECONDS EAST 1,772.95 FEET; THENCE NORTH 89 DEGREES 46 MINUTES 55 SECONDS EAST 1,581.56 FEET TO COMMON SECTION LINE OF SAID SECTIONS 12 TOWNSHIP 25 SOUTH 30 EAST AND SECTION 7 TOWNSHIP 25 SOUTH RANGE 31 EAST.

THENCE NORTH 89 DEGREES 46 MINUTES 55 SECONDS EAST 1,223.79 FEET; THENCE SOUTH 89 DEGREES 25 MINUTES 30 SECONDS EAST 422.33 FEET; THENCE NORTH 66 DEGREES 29 MINUTES 54 SECONDS EAST 100.64 FEET TO A COMMON SECTION LINE OF SAID SECTIONS 6 AND 7 OF TOWNSHIP 25 SOUTH RANGE 31 EAST; THENCE NORTH 66 DEGREES 29 MINUTES 54 SECONDS EAST 23.71 FEET; THENCE NORTH 71 DEGREES 24 MINUTES 34 SECONDS EAST 53.44 FEET; THENCE EAST 169.47 FEET; THENCE SOUTH 26.75 FEET TO A COMMON SECTION LINE OF SAID SECTIONS 6 AND 7 OF TOWNSHIP 25 SOUTH RANGE 31 EAST; THENCE 149.86 FEET TO THE POINT OF ENDING (P.O.E.). SAID POINT OF ENDING (P.O.E.) HAVING THE FOLLOWING COORDINATES: X=659,206.08, Y=419,356.69 (NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 27).

FOR THE EXCLUSIVE USE OF
CHESAPEAKE OPERATING, INC.
I, WM. J. DANIEL III, Registered Professional
Land Surveyor, do hereby state this plat is true
and correct to the best of my knowledge.



WM. J. DANIEL III
Registration No. 15078



FLOWLINE PLAT

CHESAPEAKE OPERATING, INC.
PROPOSED FLOWLINE
PLU BIG SINKS 1-25-30 USA NO. 1H FLOWLINE
SECTIONS 1 & 12, T25S-R30E; SECTIONS 6 & 7, T25S-R31E
EDDY COUNTY, TEXAS

DRAWN BY: BMO		REVISIONS	
PROJ. MGR.: DBM	No.	DATE:	REVISED BY:
DATE: AUGUST 23, 2012	No.	DATE:	REVISED BY:
FILENAME: T:\2012\124892\DWG\PLU BIG SINKS 1-25-30 FLOWLINE.dwg			

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