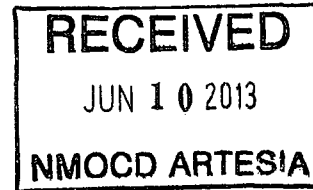




PHOENIX
TECHNOLOGY SERVICES

June 4, 2013

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



Dear District 2 – Artesia

Re: Bopco, L.P.
PLU Unit #394H
Eddy Co., NM
API #30-015-41083
Job No. 1310421

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	
Michael Layfield	394H	7,423	8,265	05/23/13	05/26/13	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 8400

NEVIS ENERGY SERVICES INC. SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1310421

OPERATOR Bopco LP

WELL NAME Poker Lake Unit #394H

COUNTY & STATE

Eddy Co, NM

API WELL NUMBER	30-015-41083
-----------------	--------------

PROPOSED DIRECTION	134.78
--------------------	--------

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
7,306 ft	7,305.53 ft	-1.03	154.97	-62.13	-0.5	Vaugh Energy Services

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
23-May-13	7,423 ft	4.7	146.9

SURVEY INSTRUMENT
TYPE
Phoenix P360

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
26-May-13	8,265 ft	60.7	128.4

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
28-Oct-22	8,337 ft	68.5	130

Michael Layfield

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.22
DECLINATION OR GRID	Grid

5-28-13

TODAY'S DATE

MWD SUPERVISOR 1

Mike Layfield

DIRECTIONAL DRILLER 1

Casey Hendrix

MWD SUPERVISOR 2

Josh Braunig

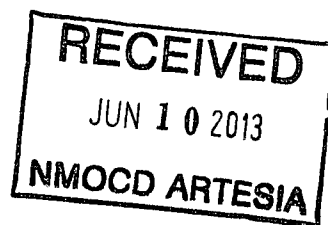
DIRECTIONAL DRILLER 2

Todd Boyle

1805 Brittmore Road

Houston, Texas 77043

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



Bopco L P

Eddy County, NM (NAD27 NME)

Poker Lake Unit

#394H

Wellbore #1 / Job #1310421

Survey: Phoenix MWD Surveys

Phoenix Final Survey Report

29 May, 2013



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Phoenix Final Survey Report



Company:	Bopco L P	Local Co-ordinate Reference:	Well #394H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3487.00usft (McVay 5)
Site:	Poker Lake Unit	MD Reference:	KB @ 3487.00usft (McVay 5)
Well:	#394H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1310421	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (McVay 5)	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	Poker Lake Unit		
Site Position:		Northing:	435,896.68 usft
From:	Map	Easting:	646,110.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 11' 51.053521 N
		Longitude:	103° 51' 39.561423 W
		Grid Convergence:	0.25 °

Well	#394H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 11' 54.645774 N
		Longitude:	103° 48' 30.749748 W
		Ground Level:	3,468.00 usft

Wellbore	Wellbore #1 / Job #1310421		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	04/08/13	(°)
			7.47
			Dip Angle
			(°)
			60.08
			Field Strength
			(nT)
			48,393

Design	Surveys (McVay 5)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	Direction
	(usft)	(usft)	(°)
	0.00	0.00	134.78
		+E/-W	
		(usft)	

Survey Program	Date 05/29/13		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
67.12	7,306.12	VES Gyro Survey (Wellbore #1 / Job #131	ISCWSA-GYRO-3
7,423.00	8,337.00	Phoenix MWD Surveys (Wellbore #1 / Job	MWD
			Description
			Biaxial Semi-Cont. Gyro
			MWD - Standard

Survey	MD	Inc	Azi (azimuth)	TVD	N/S	E/W	V. Sec	DLeg
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
	7,306.12	1.03	154.97	7,305.53	-62.13	-0.51	43.40	0.00
Tie-on to VES Gyro								
	7,423.00	4.70	146.90	7,422.24	-67.09	2.55	49.07	3.15
First Phoenix MWD Survey								
	7,455.00	7.30	151.50	7,454.07	-69.98	4.24	52.30	8.26
	7,486.00	11.30	146.10	7,484.65	-74.23	6.87	57.17	13.19
	7,517.00	14.90	144.80	7,514.84	-80.01	10.87	64.07	11.65
	7,549.00	18.20	143.30	7,545.51	-87.38	16.23	73.07	10.40
	7,580.00	21.00	141.70	7,574.71	-95.62	22.56	83.37	9.20
	7,611.00	23.60	140.10	7,603.39	-104.75	29.99	95.07	8.61
	7,643.00	26.50	135.40	7,632.38	-114.75	39.11	108.59	10.98



Phoenix Technology Services
Phoenix Final Survey Report



Company: Bopco L.P.
Project: Eddy County, NM (NAD27-NME)
Site: Poker Lake Unit
Well: #394H
Wellbore: Wellbore #1 / Job #1310421
Design: Surveys (McVay 5)

Local Co-ordinate Reference: Well #394H
TVD Reference: KB @ 3487.00usft (McVay 5)
MD Reference: KB @ 3487.00usft (McVay 5)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR-DB

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
7,674.00	29.80	131.00	7,659.71	-124.73	49.79	123.19	12.57
7,706.00	33.80	129.60	7,686.91	-135.62	62.65	140.00	12.71
7,738.00	36.90	130.30	7,713.00	-147.51	76.84	158.45	9.77
7,769.00	40.10	131.00	7,737.26	-160.09	91.47	177.69	10.42
7,800.00	43.20	131.00	7,760.42	-173.60	107.02	198.25	10.00
7,831.00	45.80	132.00	7,782.53	-188.00	123.29	219.94	8.69
7,862.00	48.00	132.60	7,803.71	-203.23	140.03	242.55	7.24
7,893.00	50.60	132.40	7,823.92	-219.11	157.36	266.03	8.40
7,924.00	52.40	132.30	7,843.22	-235.45	175.29	290.27	5.81
7,955.00	54.40	131.90	7,861.70	-252.14	193.75	315.13	6.53
7,986.00	56.20	131.90	7,879.35	-269.16	212.72	340.58	5.81
8,017.00	58.60	131.70	7,896.05	-286.56	232.19	366.66	7.76
8,048.00	62.00	131.50	7,911.41	-304.44	252.32	393.54	10.98
8,079.00	63.20	130.70	7,925.67	-322.53	273.06	421.01	4.50
8,110.00	62.60	130.20	7,939.80	-340.43	294.06	448.52	2.41
8,141.00	62.20	129.70	7,954.16	-358.07	315.12	475.90	1.93
8,172.00	61.90	129.60	7,968.69	-375.54	336.21	503.17	1.01
8,203.00	61.50	129.20	7,983.39	-392.87	357.30	530.35	1.72
8,234.00	61.00	128.70	7,998.30	-409.96	378.43	557.39	2.15
8,265.00	60.70	128.40	8,013.40	-426.83	399.61	584.30	1.28
Last Phoenix MWD Survey							
8,337.00	60.70	128.40	8,048.63	-465.83	448.81	646.70	0.00
Projection to TD							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,306.12	7,305.53	-62.13	-0.51	Tie-on to VES Gyro
7,423.00	7,422.24	-67.09	2.55	First Phoenix MWD Survey
8,265.00	8,013.40	-426.83	399.61	Last Phoenix MWD Survey
8,337.00	8,048.63	-465.83	448.81	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

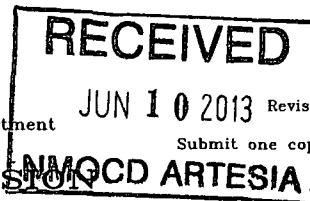
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State 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 July 16, 2010
Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code 96047	Pool Name Poker Lake (Delaware) SW
Property Code 306402	Property Name POKER LAKE UNIT		Well Number 394H
OGRID No. 260737	Operator Name BOPCO, L.P.		Elevation 3468

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	24 S	31 E		1125	SOUTH	200	EAST	EDDY

Bottom Hole Location If Different From Surface

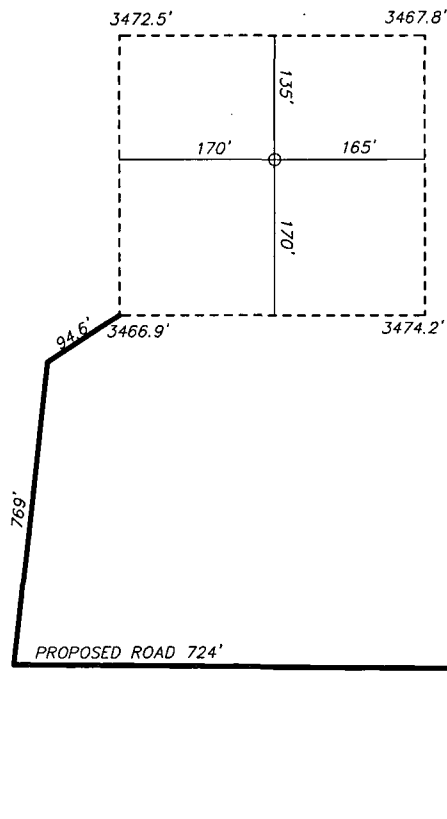
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	29	24 S	31 E		1500	SOUTH	600	EAST	EDDY

Dedicated Acres 280	Joint or Infill	Consolidation Code	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

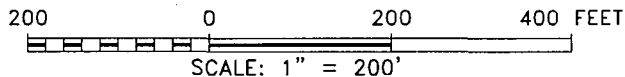
SURFACE LOCATION Lat - N 32°11'54.64" Long - W 103°48'30.74" NMSPCE- N 436334.90 E 662332.17 (NAD-27) BOTTOM HOLE LOCATION Lat - N 32°11'06.11" Long - W 103°47'33.83" NMSPCE- N 431457.27 E 667247.50 (NAD-27)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete 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 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 _____ Date _____ Jeremy Braden Printed Name _____ jdbraden@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. Date Surveyed _____ Signature & Seal of Professional Surveyor _____ Certificate No. Gary L. Jones 7977 BASIN SURVEYS 26957

SECTION 19, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, WELL PAD LAYOUT NEW MEXICO.



BOPCO, L.P.
POKER LAKE UNIT 394H
ELEV. - 3468'

SURFACE LOCATION
Lat - N 32°11'54.64"
Long - W 103°48'30.74"
NMSPCE- N 436334.90
E 662332.17
(NAD-27)



Directions to Location:

FROM THE JUNCTION OF ST 128 AND 786 BUCK JACKSON GO SOUTH ON BUCK JACKSON 5.5 MILES TO LEASE ROAD GO NORTH 0.6 MILES TO BEGIN ROAD LATHE ON THE WEST.

BASIN SURVEYS P.O. BOX 1786 -HOBBS, NEW MEXICO

W.O. Number: 26957

Drawn By: D. JONES

Date: 08-16-2012 Disk: DAJ 26957

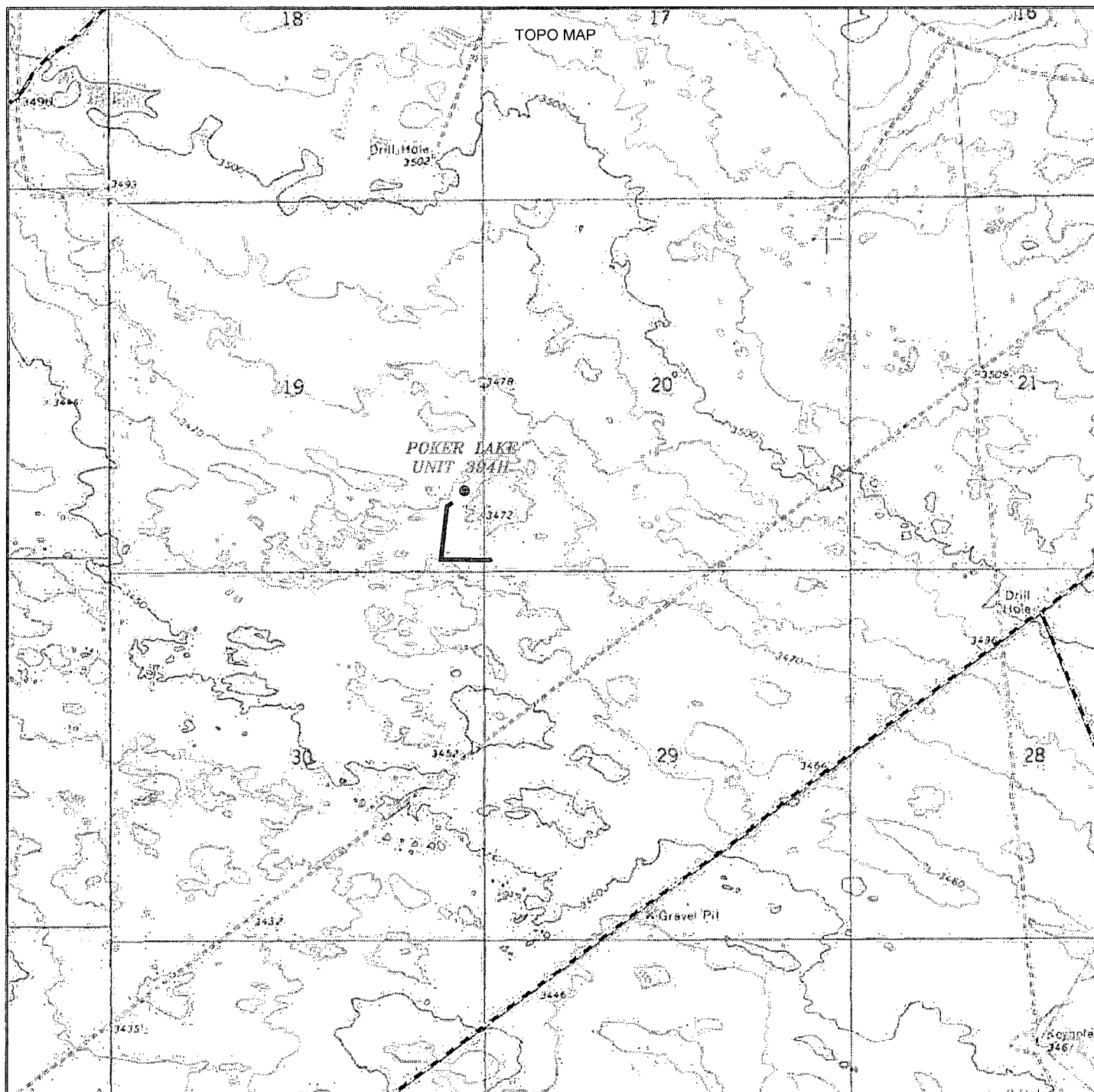
BOPCO, L.P.

REF: POKER LAKE UNIT 394H / WELL PAD TOPO

THE POKER LAKE UNIT 394H LOCATED 1125'
FROM THE SOUTH LINE AND 200' FROM THE EAST LINE OF
SECTION 19, TOWNSHIP 24 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 08-02-2012

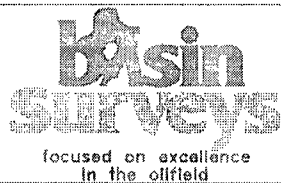
Sheet 1 of 4 Sheets



POKER LAKE UNIT 394H

Located 1125' FSL and 200' FEL

Section 19, Township 24 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: DAJ 26957

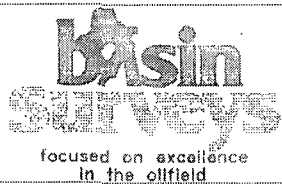
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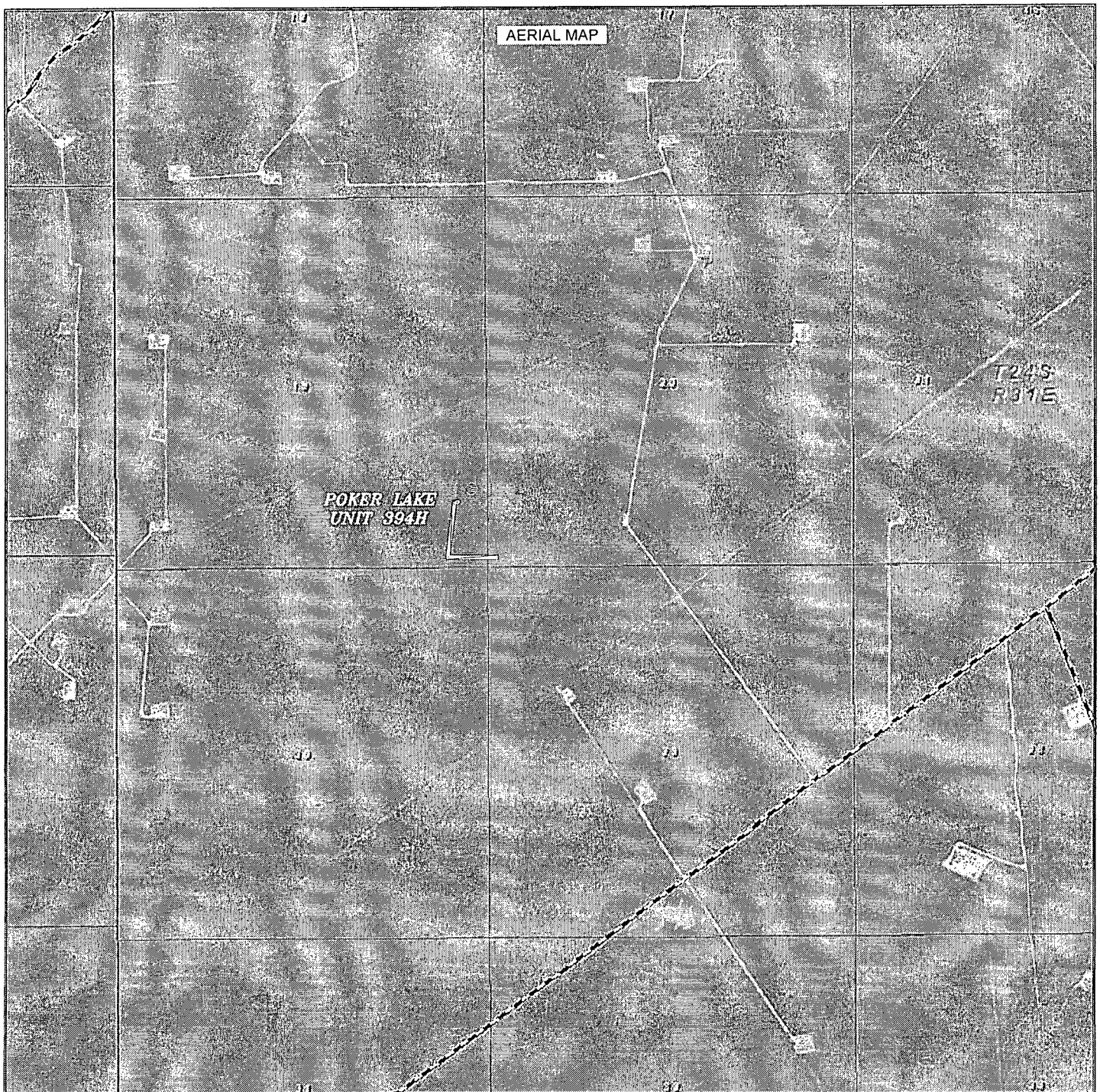
Scale: 1" = 2000'

Date: 08-16-2012

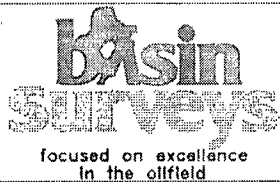
BOPCO, L.P.

Sheet 2 of 4 Sheets





POKER LAKE UNIT 394H
Located 1125' FSL and 200' FEL
Section 19, Township 24 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: DAJ 26957

Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



BOPCO, L.P.

Sheet 4 of 4 Sheets