

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA
JUL 17 2009

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1 Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5 Lease Serial No NMLC 02862
2. Name of Operator BOPCO, L. P.		6 If Indian, Allottee or Tribe Name
3a Address P. O. Box 2760 Midland, TX 79702	3b Phone No. (include area code) 432-683-2277	7 If Unit or CA/Agreement, Name and/or No
4 Location of Well (Footage, Sec, T, R, M, or Survey Description) Surface: NWNW, 2460' FNL, 2310' FWL, Sec 27, T24S, R30E, Lat N32.189178, Lon W103.869631 BHL: NESE, 1537' FSL, 400' FEL, Sec 21, T24S, R30E, Lat N32.2001, Lon W103.878389		8 Well Name and No Poker Lake Unit #301H
		9 API Well No 30-015-36924
		10 Field and Pool, or Exploratory Area Nash Draw (Dela, BS, Avalon Sd)
		11 County or Parish, State Eddy County, NM

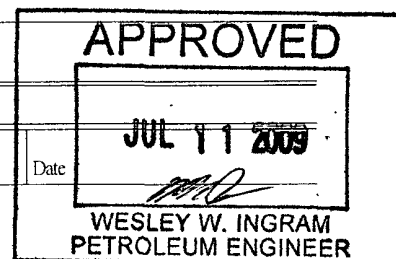
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO L.P. request approval to change the TD of the 8 3/4" hole depth from 9997' to 12243'. This change is with respect to new geologic information received. The bottom hole location will move from, BHL: NWNW, 330' FNL, 800' FWL, Sec 27, T24S, R30E, Lat N32.194994, Lon W103.874522, to the new location which is at, BHL: NESE, 1537' FSL, 400' FEL, Sec 21, T24S, R30E, Lat N32.2001, Lon W103.878389. (Survey Plats attached) This location will be unorthodox, but the only encroachment will be with BOPCO, L.P. owned properties.

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Annette Childers		Title Regulatory Clerk
Signature <i>Annette Childers</i>		Date 7-6-09
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by _____ Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title _____ Office _____	Date _____



Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

mm

SRK

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 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36924	Pool Code 47545	Pool Name Nash Draw (Delaware, Bone Spring, Avalon Sd)
Property Code 306402	Property Name POKER LAKE UNIT	Well Number 301H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3345'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	27	24 S	30 E		2460	NORTH	2310	WEST	EDDY

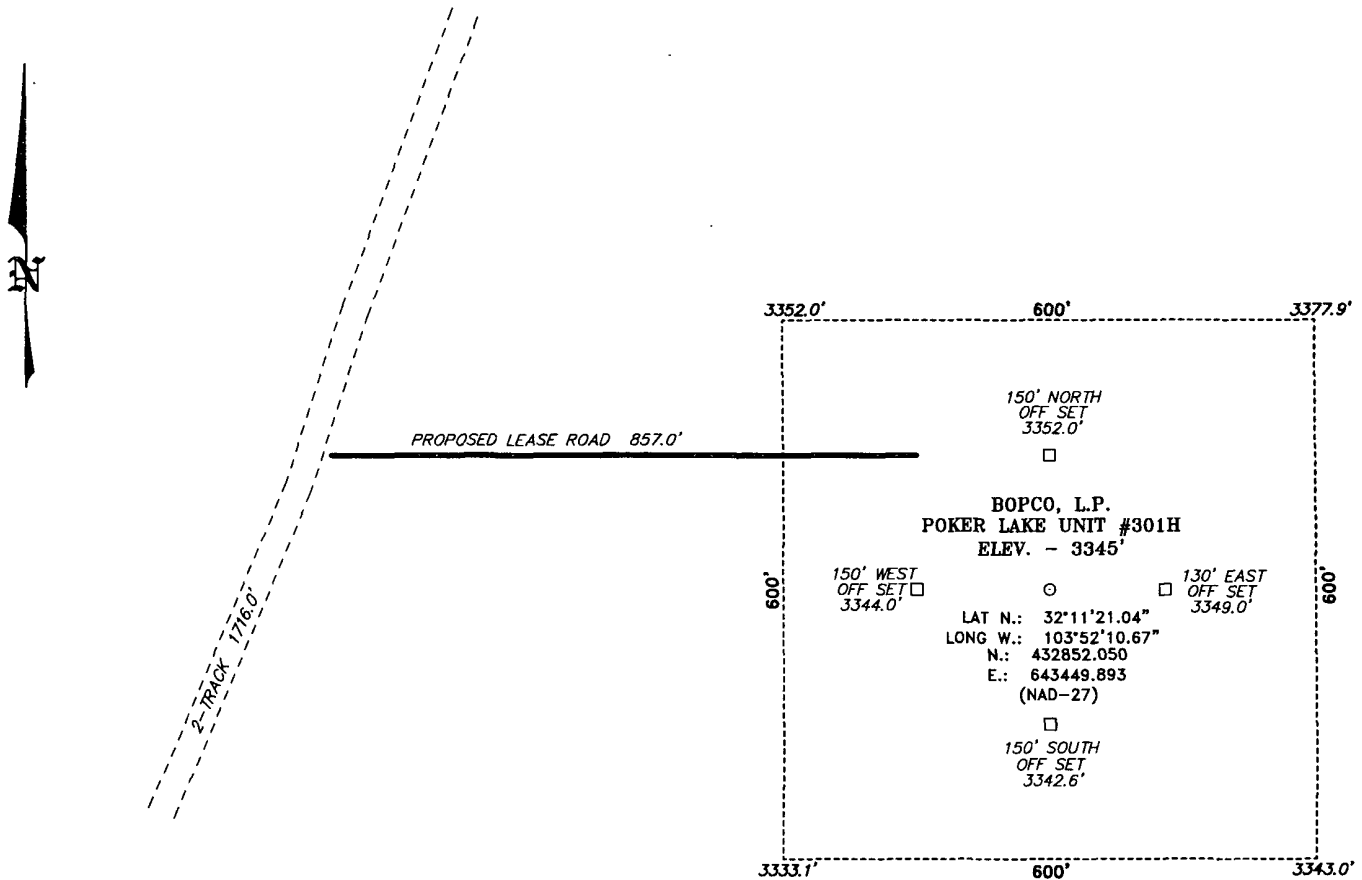
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	21	24 S	30 E		1537	SOUTH	400	EAST	EDDY
Dedicated Acres 280	Joint or Infill N	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

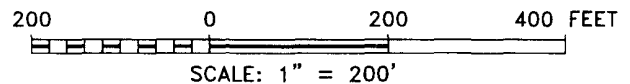
	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract 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. <i>Jordan Evans</i> 7-6-07 Signature Date Jordan R. Evans Printed Name 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. OCT 12 2008 Date Surveyed Signature of Professional Surveyor W. L. Jones 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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SECTION 27, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF TWIN WELLS AND McDONALD,
GO WEST ON McDONALD FOR 0.8 MILES TO 2-TRACK,
ON 2-TRACK GO NORTH 0.4 MILES TO PROPOSED
LEASE ROAD.



BOPCO, L.P.

REF: POKER LAKE UNIT #301H / WELL PAD AND TOPO

THE POKER LAKE UNIT #301H LOCATED 2460'

FROM THE NORTH LINE AND 2310' FROM THE WEST LINE OF

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 20594

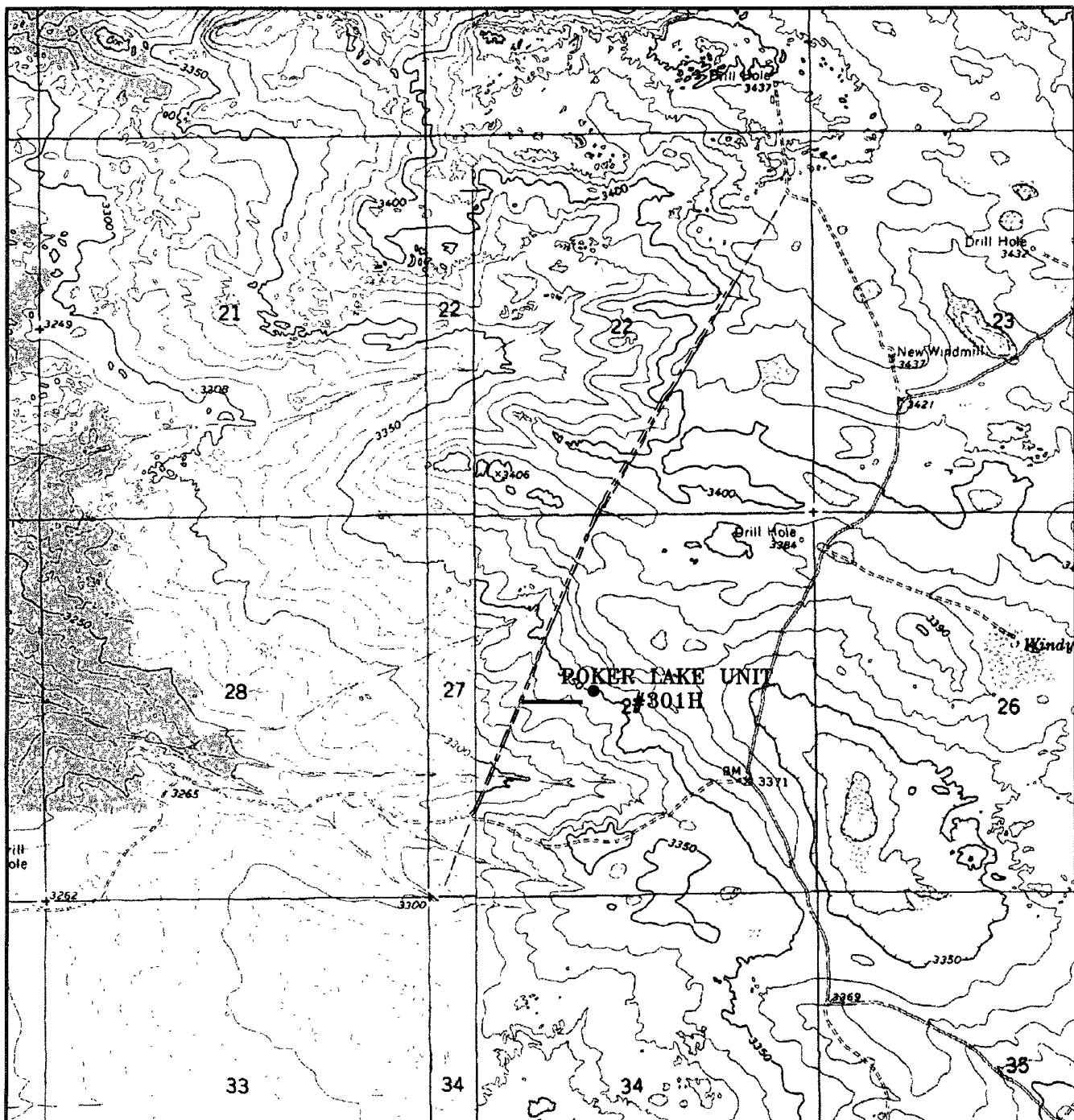
Drawn By: J. SMALL

Date: 10-02-2008

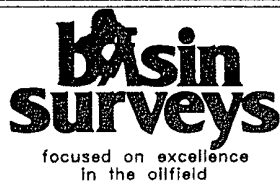
Disk: 20594 JMS

Survey Date: 10-01-2008

Sheet 1 of 1 Sheets



POKER LAKE UNIT #301H
 2460' FNL and 2310' FWL
 Section 27, Township 24 South, Range 30 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

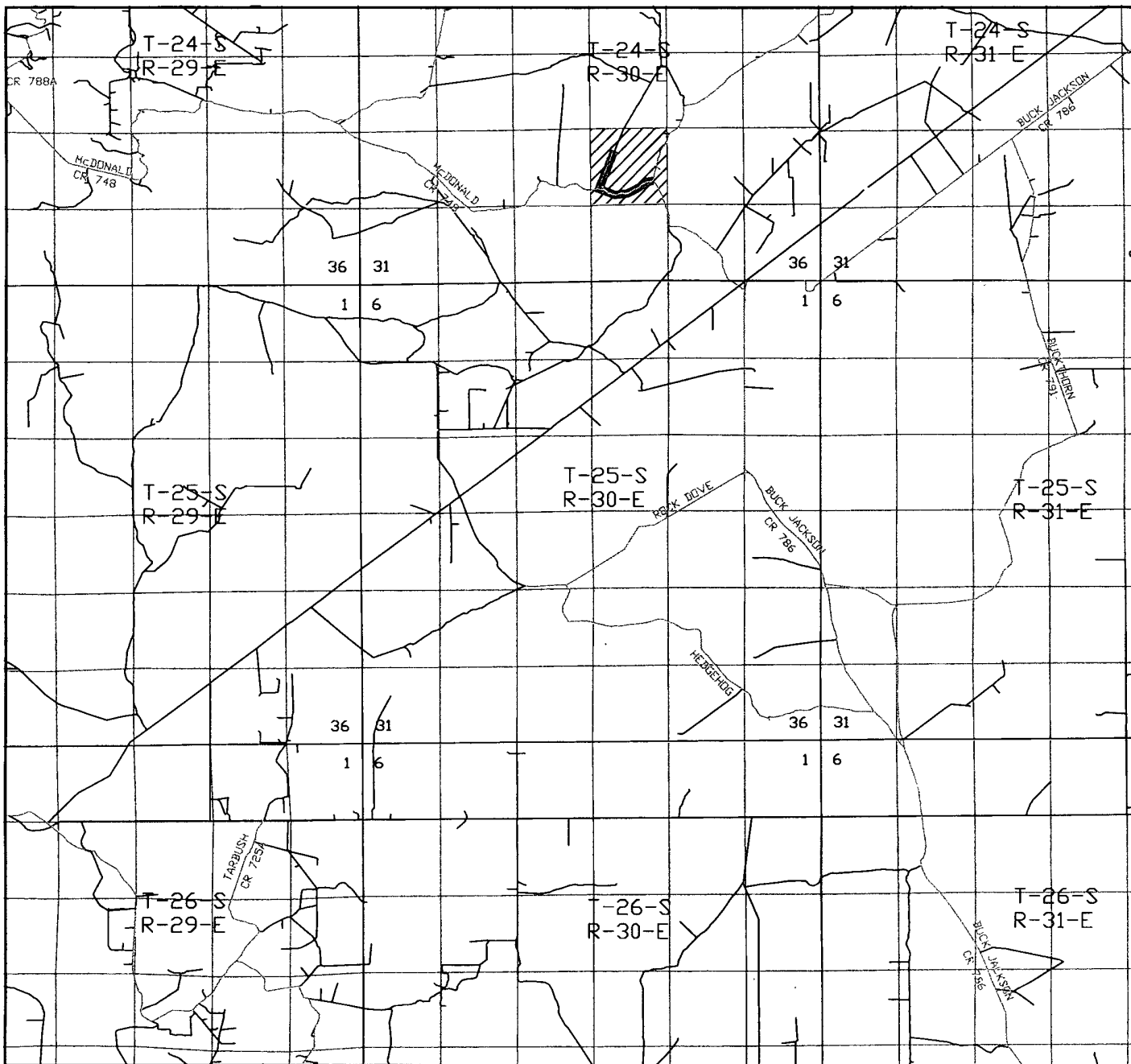
W.O. Number: JMS 20594

Survey Date 10-01-2008

Scale: 1" = 2000'

Date: 10-02-2008

BOPCO, L.P.



POKER LAKE UNIT #301H
 2460' FNL and 2310' FWL
 Section 27, Township 24 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.



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W.O. Number: JMS 20594

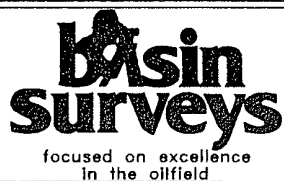
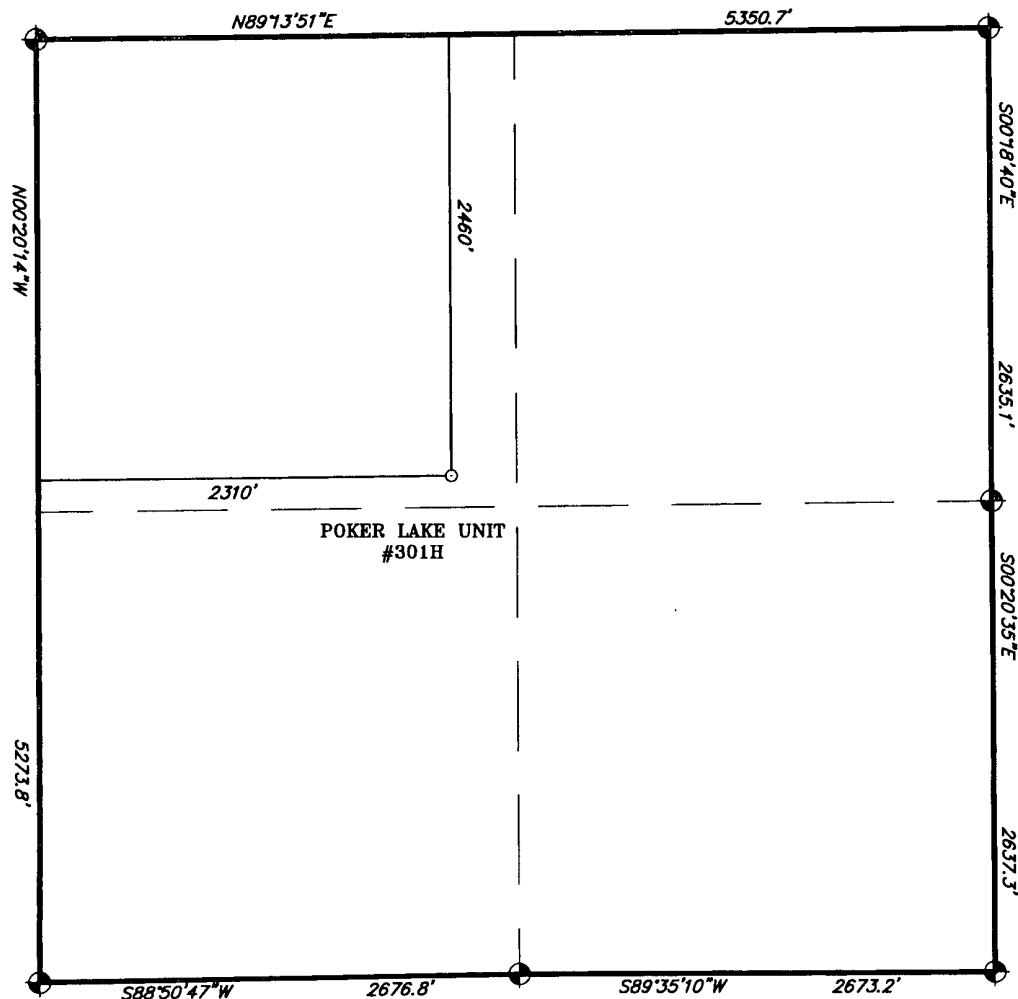
Survey Date: 10-01-2008

Scale: 1" = 2 MILES

Date: 10-02-2008

BOPCO, L.P.

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 30 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: JMS 20594

Survey Date: 10-01-2008

Scale: 1" = 1000'

Date: 10-02-2008

BOPCO, L.P.



BOPCO, L.P.

Eddy County(NAD27)

Poker Lake Unit

#301H

OH

Plan: Plan #1

Pathfinder X & Y Planning Report

02 July, 2009

PATHFINDER



Pathfinder Energy Services

Pathfinder X & Y Planning Report

PATHFINDER

Company: BOPCO, L.P
Project: Eddy County(NAD27)
Site: Poker Lake Unit
Well: #301H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #301H
TVD Reference: WELL @ 3364 00ft (19' KB Correction(McVay#5))
MD Reference: WELL @ 3364 00ft (19' KB Correction(McVay#5))
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project Eddy County(NAD27)

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 Poker Lake Unit

Site Position:		Northing:	431,785 905 ft	Latitude:	32° 11' 9.261 N
From: Map		Easting:	669,777.503 ft	Longitude:	103° 47' 4.373 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	0 29 °

Well #301H

Well Position	+N/-S	0 00 ft	Northing:	432,852.050 ft	Latitude:	32° 11' 21 038 N
	+E/-W	0 00 ft	Easting:	643,449.893 ft	Longitude:	103° 52' 10 673 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	ft	Ground Level:	3,345.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	06/25/2009	7.94	60 17	48,787

Design Plan #1

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0 00	325 71

Survey Tool Program **Date** 07/02/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0 00	12,242.46	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: BOPCO, L P
Project: Eddy County(NAD27)
Site: Poker Lake Unit
Well: #301H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #301H
TVD Reference: WELL @ 3364.00ft (19' KB Correction(McVay#5))
MD Reference: WELL @ 3364.00ft (19' KB Correction(McVay#5))
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0 00	0 00	0.00	0.00	-3,364.00	0.00	0.00	0 00	0.00	432,852.05	643,449.89
100 00	0 00	0.00	100 00	-3,264 00	0 00	0 00	0.00	0.00	432,852.05	643,449.89
200 00	0 00	0.00	200 00	-3,164 00	0.00	0 00	0.00	0 00	432,852.05	643,449.89
300 00	0 00	0.00	300.00	-3,064.00	0.00	0.00	0.00	0.00	432,852 05	643,449 89
400 00	0 00	0.00	400.00	-2,964.00	0.00	0.00	0.00	0.00	432,852 05	643,449.89
500 00	0 00	0 00	500 00	-2,864 00	0 00	0 00	0.00	0.00	432,852.05	643,449.89
600.00	0.00	0 00	600 00	-2,764 00	0.00	0.00	0 00	0 00	432,852 05	643,449 89
700 00	0 00	0 00	700.00	-2,664 00	0 00	0.00	0.00	0.00	432,852 05	643,449 89
800 00	0.00	0.00	800 00	-2,564 00	0 00	0 00	0 00	0 00	432,852.05	643,449.89
900 00	0.00	0 00	900.00	-2,464.00	0.00	0.00	0 00	0 00	432,852.05	643,449.89
1,000 00	0 00	0 00	1,000 00	-2,364 00	0 00	0.00	0 00	0 00	432,852 05	643,449.89
1,100 00	0 00	0 00	1,100 00	-2,264 00	0.00	0 00	0 00	0 00	432,852.05	643,449 89
1,200 00	0 00	0 00	1,200 00	-2,164 00	0 00	0 00	0 00	0.00	432,852.05	643,449 89
1,300 00	0 00	0 00	1,300 00	-2,064 00	0 00	0.00	0 00	0 00	432,852 05	643,449.89
1,400 00	0.00	0 00	1,400 00	-1,964 00	0 00	0.00	0.00	0 00	432,852.05	643,449.89
1,500 00	0.00	0 00	1,500 00	-1,864 00	0.00	0.00	0 00	0 00	432,852.05	643,449 89
1,600 00	0 00	0 00	1,600 00	-1,764.00	0 00	0 00	0.00	0.00	432,852.05	643,449.89
1,700 00	0 00	0 00	1,700.00	-1,664 00	0 00	0.00	0 00	0.00	432,852.05	643,449 89
1,800 00	0 00	0.00	1,800.00	-1,564.00	0 00	0.00	0.00	0.00	432,852 05	643,449.89
1,900.00	0 00	0.00	1,900 00	-1,464 00	0.00	0 00	0 00	0 00	432,852.05	643,449 89
2,000.00	0.00	0 00	2,000 00	-1,364.00	0.00	0.00	0 00	0.00	432,852.05	643,449.89
2,100 00	0 00	0.00	2,100 00	-1,264 00	0.00	0 00	0.00	0.00	432,852.05	643,449.89
2,200.00	0 00	0 00	2,200.00	-1,164.00	0.00	0.00	0.00	0.00	432,852.05	643,449.89
2,300 00	0 00	0.00	2,300 00	-1,064 00	0 00	0.00	0.00	0.00	432,852.05	643,449 89
2,400 00	0 00	0 00	2,400.00	-964.00	0 00	0 00	0 00	0.00	432,852.05	643,449 89
2,500 00	0 00	0 00	2,500 00	-864 00	0.00	0 00	0 00	0.00	432,852 05	643,449 89
2,600 00	0.00	0 00	2,600 00	-764 00	0 00	0 00	0 00	0.00	432,852 05	643,449.89



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: BOPCO, L P
Project: Eddy County(NAD27)
Site: Poker Lake Unit
Well: #301H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #301H
TVD Reference: WELL @ 3364 00ft (19' KB Correction(McVay#5))
MD Reference: WELL @ 3364 00ft (19' KB Correction(McVay#5))
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700 00	0.00	0 00	2,700 00	-664.00	0 00	0.00	0.00	0 00	432,852.05	643,449.89
2,800 00	0.00	0 00	2,800.00	-564 00	0.00	0 00	0 00	0.00	432,852 05	643,449.89
2,900 00	0.00	0 00	2,900 00	-464.00	0.00	0 00	0.00	0 00	432,852 05	643,449.89
3,000 00	0.00	0 00	3,000.00	-364 00	0.00	0.00	0 00	0.00	432,852.05	643,449.89
3,100 00	0 00	0 00	3,100.00	-264 00	0.00	0.00	0.00	0 00	432,852 05	643,449.89
3,200 00	0 00	0 00	3,200 00	-164 00	0 00	0 00	0.00	0 00	432,852 05	643,449.89
3,300 00	0 00	0.00	3,300 00	-64 00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
3,400 00	0 00	0.00	3,400 00	36 00	0.00	0.00	0.00	0 00	432,852.05	643,449.89
3,500 00	0 00	0 00	3,500 00	136.00	0.00	0.00	0 00	0 00	432,852.05	643,449.89
3,600 00	0 00	0 00	3,600 00	236 00	0 00	0 00	0.00	0 00	432,852 05	643,449.89
3,700 00	0 00	0 00	3,700 00	336 00	0 00	0 00	0.00	0 00	432,852 05	643,449.89
3,800 00	0 00	0 00	3,800 00	436 00	0.00	0 00	0.00	0 00	432,852 05	643,449.89
3,900 00	0 00	0 00	3,900 00	536.00	0.00	0.00	0 00	0 00	432,852.05	643,449.89
4,000 00	0 00	0 00	4,000.00	636 00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
4,100 00	0 00	0 00	4,100.00	736 00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
4,200 00	0.00	0.00	4,200.00	836 00	0.00	0.00	0 00	0 00	432,852 05	643,449.89
4,300 00	0.00	0.00	4,300 00	936 00	0 00	0.00	0.00	0.00	432,852.05	643,449.89
4,400 00	0.00	0.00	4,400.00	1,036.00	0 00	0.00	0 00	0 00	432,852.05	643,449.89
4,500 00	0 00	0 00	4,500 00	1,136 00	0 00	0 00	0.00	0.00	432,852 05	643,449.89
4,600 00	0 00	0 00	4,600 00	1,236 00	0 00	0.00	0.00	0 00	432,852.05	643,449.89
4,700 00	0 00	0 00	4,700 00	1,336 00	0 00	0 00	0 00	0 00	432,852.05	643,449.89
4,800 00	0 00	0 00	4,800 00	1,436 00	0 00	0 00	0 00	0 00	432,852 05	643,449.89
4,900 00	0 00	0.00	4,900 00	1,536 00	0 00	0.00	0.00	0.00	432,852.05	643,449.89
5,000 00	0 00	0 00	5,000 00	1,636 00	0 00	0.00	0 00	0.00	432,852 05	643,449.89
5,100 00	0.00	0 00	5,100 00	1,736.00	0 00	0 00	0 00	0 00	432,852.05	643,449.89
5,200 00	0.00	0 00	5,200 00	1,836.00	0.00	0.00	0.00	0.00	432,852.05	643,449.89
5,300 00	0 00	0 00	5,300 00	1,936.00	0.00	0.00	0.00	0 00	432,852.05	643,449.89



Pathfinder Energy Services

Pathfinder X & Y Planning Report



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Site: Poker Lake Unit
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Wellbore: OH
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Planned Survey

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5,400 00	0 00	0.00	5,400 00	2,036 00	0.00	0.00	0.00	0 00	432,852 05	643,449.89
5,500 00	0 00	0 00	5,500 00	2,136 00	0 00	0 00	0.00	0 00	432,852 05	643,449.89
5,600 00	0 00	0.00	5,600 00	2,236 00	0 00	0.00	0 00	0 00	432,852 05	643,449.89
5,700 00	0 00	0 00	5,700 00	2,336 00	0 00	0.00	0.00	0.00	432,852.05	643,449.89
5,800 00	0 00	0 00	5,800 00	2,436 00	0.00	0.00	0.00	0.00	432,852.05	643,449.89
5,900 00	0 00	0 00	5,900 00	2,536 00	0 00	0 00	0 00	0 00	432,852.05	643,449.89
6,000 00	0 00	0 00	6,000 00	2,636 00	0 00	0 00	0.00	0.00	432,852.05	643,449.89
6,100 00	0 00	0 00	6,100 00	2,736 00	0 00	0 00	0 00	0 00	432,852 05	643,449.89
6,200 00	0.00	0 00	6,200 00	2,836 00	0 00	0.00	0.00	0 00	432,852 05	643,449.89
6,300 00	0 00	0 00	6,300 00	2,936.00	0 00	0.00	0.00	0 00	432,852.05	643,449.89
6,400 00	0 00	0 00	6,400 00	3,036.00	0.00	0 00	0 00	0 00	432,852.05	643,449.89
6,500 00	0 00	0 00	6,500 00	3,136 00	0.00	0.00	0.00	0 00	432,852.05	643,449.89
6,600 00	0 00	0 00	6,600 00	3,236 00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
6,700 00	0 00	0.00	6,700 00	3,336.00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
6,800 00	0 00	0 00	6,800 00	3,436 00	0 00	0 00	0 00	0.00	432,852.05	643,449.89
6,900 00	0 00	0 00	6,900.00	3,536 00	0.00	0.00	0.00	0.00	432,852 05	643,449.89
7,000 00	0.00	0.00	7,000.00	3,636 00	0 00	0 00	0.00	0.00	432,852.05	643,449.89
7,100 00	0.00	0.00	7,100.00	3,736.00	0.00	0 00	0.00	0.00	432,852.05	643,449.89
7,161 00	0.00	0.00	7,161 00	3,797.00	0.00	0.00	0 00	0 00	432,852.05	643,449.89
KOP-7161.00°MD,0.00°INC,0.00°AZI,7161.00°TVD										
7,175.00	1.68	325 71	7,175.00	3,811 00	0 17	-0.12	0 21	12.01	432,852 22	643,449.78
7,200.00	4 68	325 71	7,199.96	3,835.96	1.32	-0.90	1 59	12 01	432,853 36	643,448.99
7,225 00	7 69	325.71	7,224.81	3,860.81	3.54	-2.42	4.29	12 01	432,855.58	643,447.46
7,250 00	10 69	325 71	7,249.48	3,885.48	6 84	-4.66	8.28	12 01	432,858.87	643,445.20
7,275 00	13.69	325 71	7,273.92	3,909.92	11.20	-7.64	13.56	12.01	432,863.22	643,442.21
7,300 00	16.70	325 71	7,298.04	3,934.04	16.61	-11.33	20.11	12 01	432,868.62	643,438.49
7,325 00	19 70	325.71	7,321.79	3,957.79	23.06	-15.73	27.92	12 01	432,875.05	643,434.07



Pathfinder Energy Services

Pathfinder X & Y Planning Report



Company: BOPCO, L.P.
 Project: Eddy County(NAD27)
 Site: Poker Lake Unit
 Well: #301H
 Wellbore: OH
 Design: Plan #1

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 MD Reference: WELL @ 3364.00ft (19' KB Correction(McVay#5))
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,350.00	22.70	325.71	7,345.09	3,981.09	30.53	-20.82	36.96	12.01	432,882.49	643,428.94
7,375.00	25.71	325.71	7,367.89	4,003.89	39.00	-26.59	47.20	12.01	432,890.94	643,423.13
7,400.00	28.71	325.71	7,390.12	4,026.12	48.44	-33.03	58.63	12.01	432,900.35	643,416.65
7,425.00	31.71	325.71	7,411.73	4,047.73	58.83	-40.12	71.21	12.01	432,910.71	643,409.52
7,450.00	34.71	325.71	7,432.64	4,068.64	70.15	-47.83	84.90	12.01	432,921.99	643,401.76
7,475.00	37.72	325.71	7,452.81	4,088.81	82.35	-56.15	99.67	12.01	432,934.16	643,393.39
7,500.00	40.72	325.71	7,472.17	4,108.17	95.41	-65.06	115.48	12.01	432,947.17	643,384.42
7,525.00	43.72	325.71	7,490.69	4,126.69	109.28	-74.52	132.27	12.01	432,961.01	643,374.90
7,550.00	46.73	325.71	7,508.29	4,144.29	123.95	-84.52	150.02	12.01	432,975.63	643,364.84
7,575.00	49.73	325.71	7,524.95	4,160.95	139.35	-95.02	168.66	12.01	432,990.99	643,354.27
7,600.00	52.73	325.71	7,540.60	4,176.60	155.45	-106.00	188.15	12.01	433,007.04	643,343.22
7,625.00	55.73	325.71	7,555.21	4,191.21	172.21	-117.43	208.43	12.01	433,023.75	643,331.72
7,650.00	58.74	325.71	7,568.74	4,204.74	189.57	-129.27	229.45	12.01	433,041.06	643,319.81
7,675.00	61.74	325.71	7,581.15	4,217.15	207.50	-141.50	251.15	12.01	433,058.94	643,307.50
7,700.00	64.74	325.71	7,592.40	4,228.40	225.94	-154.07	273.47	12.01	433,077.33	643,294.85
7,725.00	67.75	325.71	7,602.47	4,238.47	244.85	-166.96	296.35	12.01	433,096.17	643,281.88
7,750.00	70.75	325.71	7,611.33	4,247.33	264.16	-180.13	319.73	12.01	433,115.43	643,268.63
7,775.00	73.75	325.71	7,618.95	4,254.95	283.83	-193.54	343.54	12.01	433,135.04	643,255.13
7,800.00	76.75	325.71	7,625.31	4,261.31	303.80	-207.16	367.71	12.01	433,154.95	643,241.42
7,825.00	79.76	325.71	7,630.40	4,266.40	324.02	-220.95	392.18	12.01	433,175.12	643,227.55
7,850.00	82.76	325.71	7,634.20	4,270.20	344.43	-234.87	416.89	12.01	433,195.47	643,213.54
7,875.00	85.76	325.71	7,636.70	4,272.70	364.98	-248.88	441.76	12.01	433,215.96	643,199.44
7,900.00	88.77	325.71	7,637.89	4,273.89	385.61	-262.95	466.73	12.01	433,236.52	643,185.29
7,910.27	90.00	325.71	7,638.00	4,274.00	394.10	-268.73	477.00	12.01	433,244.98	643,179.46
EOC-7910.27°MD,90.00°INC,325.71°AZI,7638.00°TVD,12.01°DLS; 477.00°VS, 394.10°N, -268.73°E										
8,000.00	90.00	325.71	7,638.00	4,274.00	468.23	-319.29	566.73	0.00	433,318.90	643,128.59
8,100.00	90.00	325.71	7,638.00	4,274.00	550.85	-375.62	666.73	0.00	433,401.28	643,071.90



Pathfinder Energy Services

Pathfinder X & Y Planning Report



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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,200.00	90.00	325.71	7,638.00	4,274.00	633.47	-431.96	766.73	0.00	433,483.65	643,015.20
8,300.00	90.00	325.71	7,638.00	4,274.00	716.09	-488.30	866.73	0.00	433,566.03	642,958.51
8,400.00	90.00	325.71	7,638.00	4,274.00	798.71	-544.64	966.73	0.00	433,648.40	642,901.82
8,500.00	90.00	325.71	7,638.00	4,274.00	881.33	-600.98	1,066.73	0.00	433,730.78	642,845.12
8,600.00	90.00	325.71	7,638.00	4,274.00	963.95	-657.31	1,166.73	0.00	433,813.16	642,788.43
8,700.00	90.00	325.71	7,638.00	4,274.00	1,046.57	-713.65	1,266.73	0.00	433,895.53	642,731.73
8,800.00	90.00	325.71	7,638.00	4,274.00	1,129.19	-769.99	1,366.73	0.00	433,977.91	642,675.04
8,900.00	90.00	325.71	7,638.00	4,274.00	1,211.81	-826.33	1,466.73	0.00	434,060.28	642,618.35
9,000.00	90.00	325.71	7,638.00	4,274.00	1,294.43	-882.67	1,566.73	0.00	434,142.66	642,561.65
9,100.00	90.00	325.71	7,638.00	4,274.00	1,377.05	-939.01	1,666.73	0.00	434,225.04	642,504.96
9,200.00	90.00	325.71	7,638.00	4,274.00	1,459.67	-995.34	1,766.73	0.00	434,307.41	642,448.26
9,300.00	90.00	325.71	7,638.00	4,274.00	1,542.29	-1,051.68	1,866.73	0.00	434,389.79	642,391.57
9,400.00	90.00	325.71	7,638.00	4,274.00	1,624.91	-1,108.02	1,966.73	0.00	434,472.16	642,334.88
9,500.00	90.00	325.71	7,638.00	4,274.00	1,707.53	-1,164.36	2,066.73	0.00	434,554.54	642,278.18
9,600.00	90.00	325.71	7,638.00	4,274.00	1,790.15	-1,220.70	2,166.73	0.00	434,636.92	642,221.49
9,700.00	90.00	325.71	7,638.00	4,274.00	1,872.76	-1,277.03	2,266.73	0.00	434,719.29	642,164.80
9,800.00	90.00	325.71	7,638.00	4,274.00	1,955.38	-1,333.37	2,366.73	0.00	434,801.67	642,108.10
9,900.00	90.00	325.71	7,638.00	4,274.00	2,038.00	-1,389.71	2,466.73	0.00	434,884.04	642,051.41
10,000.00	90.00	325.71	7,638.00	4,274.00	2,120.62	-1,446.05	2,566.73	0.00	434,966.42	641,994.71
10,100.00	90.00	325.71	7,638.00	4,274.00	2,203.24	-1,502.39	2,666.73	0.00	435,048.80	641,938.02
10,200.00	90.00	325.71	7,638.00	4,274.00	2,285.86	-1,558.73	2,766.73	0.00	435,131.17	641,881.33
10,300.00	90.00	325.71	7,638.00	4,274.00	2,368.48	-1,615.06	2,866.73	0.00	435,213.55	641,824.63
10,400.00	90.00	325.71	7,638.00	4,274.00	2,451.10	-1,671.40	2,966.73	0.00	435,295.92	641,767.94
10,500.00	90.00	325.71	7,638.00	4,274.00	2,533.72	-1,727.74	3,066.73	0.00	435,378.30	641,711.24
10,600.00	90.00	325.71	7,638.00	4,274.00	2,616.34	-1,784.08	3,166.73	0.00	435,460.67	641,654.55
10,700.00	90.00	325.71	7,638.00	4,274.00	2,698.96	-1,840.42	3,266.73	0.00	435,543.05	641,597.86
10,800.00	90.00	325.71	7,638.00	4,274.00	2,781.58	-1,896.75	3,366.73	0.00	435,625.43	641,541.16



Pathfinder Energy Services

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Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,900.00	90.00	325.71	7,638.00	4,274.00	2,864.20	-1,953.09	3,466.73	0.00	435,707.80	641,484.47
11,000.00	90.00	325.71	7,638.00	4,274.00	2,946.82	-2,009.43	3,566.73	0.00	435,790.18	641,427.77
11,100.00	90.00	325.71	7,638.00	4,274.00	3,029.44	-2,065.77	3,666.73	0.00	435,872.55	641,371.08
11,200.00	90.00	325.71	7,638.00	4,274.00	3,112.06	-2,122.11	3,766.73	0.00	435,954.93	641,314.39
11,300.00	90.00	325.71	7,638.00	4,274.00	3,194.68	-2,178.45	3,866.73	0.00	436,037.31	641,257.69
11,400.00	90.00	325.71	7,638.00	4,274.00	3,277.30	-2,234.78	3,966.73	0.00	436,119.68	641,201.00
11,500.00	90.00	325.71	7,638.00	4,274.00	3,359.92	-2,291.12	4,066.73	0.00	436,202.06	641,144.31
11,600.00	90.00	325.71	7,638.00	4,274.00	3,442.54	-2,347.46	4,166.73	0.00	436,284.43	641,087.61
11,700.00	90.00	325.71	7,638.00	4,274.00	3,525.16	-2,403.80	4,266.73	0.00	436,366.81	641,030.92
11,800.00	90.00	325.71	7,638.00	4,274.00	3,607.78	-2,460.14	4,366.73	0.00	436,449.19	640,974.22
11,900.00	90.00	325.71	7,638.00	4,274.00	3,690.40	-2,516.47	4,466.73	0.00	436,531.56	640,917.53
12,000.00	90.00	325.71	7,638.00	4,274.00	3,773.02	-2,572.81	4,566.73	0.00	436,613.94	640,860.84
12,100.00	90.00	325.71	7,638.00	4,274.00	3,855.64	-2,629.15	4,666.73	0.00	436,696.31	640,804.14
12,200.00	90.00	325.71	7,638.00	4,274.00	3,938.26	-2,685.49	4,766.73	0.00	436,778.69	640,747.45
12,242.46	90.00	325.71	7,638.00	4,274.00	3,973.34	-2,709.41	4,809.19	0.00	436,813.67	640,723.37

TD at 12242.46 - PBHL(#301H)



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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(#301H) - plan hits target - Point	0 00	0 00	7,638.00	3,973.52	-2,709 14	436,813.853	640,723 641	32° 12' 0 360 N	103° 52' 42.203 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,161 00	7,161.00	0.00	0.00	KOP-7161 00'MD,0.00°INC,0.00°AZI,7161.00'TVD
7,910 27	7,638 00	394.10	-268.73	EOC-7910 27'MD,90 00°INC,325.71°AZI,7638.00'TVD,12.01°DLS, 477
12,242 46	7,638.00	3,973 34	-2,709 41	TD at 12242.46

Checked By: _____ Approved By: _____ Date: _____



PROJECT DETAILS: Eddy County(NAD27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: No north reference data is available



Azimuths to True North
Magnetic North: 7.94°

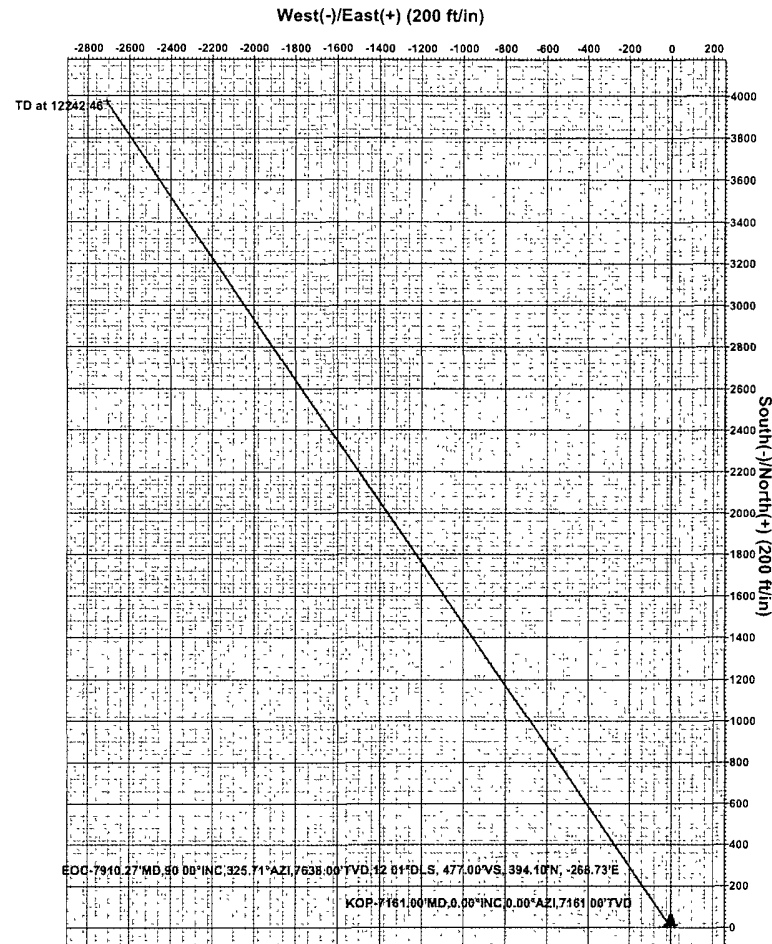
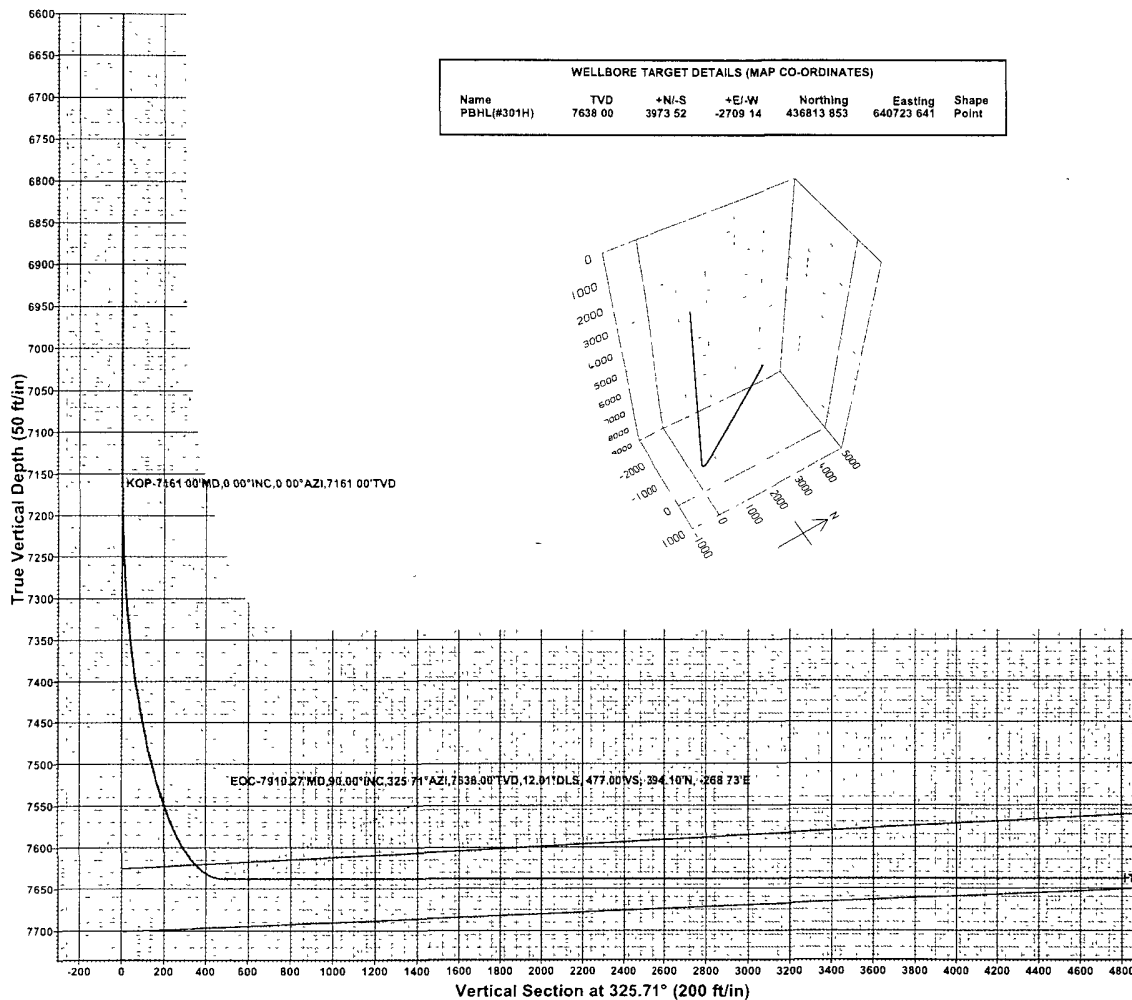
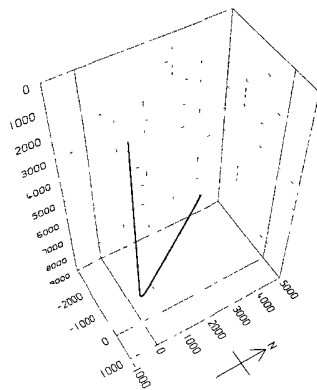
Magnetic Field
Strength: 48787.4snT
Dip Angle: 60.16°
Date: 06/25/2009
Model: IGRF200510

PATHFINDER

Project: Eddy County(NAD27)
Site: Poker Lake Unit
Well: #301H
Wellbore: OH
Plan: Plan #1 (#301H/OH)

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	0.00
2	7161 00	0 00	0 00	7161 00	0 00	0 00	0 00	0 00	0 00
3	7910 27	90 00	325.71	7638.00	394 10	-268 73	12.01	325 71	477 00
4	12242.46	90 00	325 71	7638.00	3973 34	-2709 41	0.00	0.00	4809.19 PBHL(#301H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(#301H)	7638 00	3973 52	-2709 14	436813 853	640723 641



WELL DETAILS #301H							
Ground Elevation		3345 00					
RKB Elevation		WELL @ 3364 00ft (19' KB Correction(McVay#5))					
Rlg Name		19' KB Correction(McVay#5)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0 00	0 00	432852 050	643449 893	32° 11' 21 038 N	103° 52' 10 673 W		

Plan Plan #1 (#301H/OH)
Created By: Nate Bingham Date: 15 54, July 02 2009



"Evans, Jordan R."
<jrevans@BassPet.Com>
07/10/2009 08:03 AM

To <wesley_ingram@nm.blm.gov>
cc
bcc

Subject Poker Lake Unit #301H

PRODUCTION CASING PROGRAM

		<u>CALCULATED SAFETY</u>	
<u>FACTORS</u>			
<u>Type</u>	<u>Interval</u>	<u>Collapse</u>	<u>Burst</u>
<u>Tension</u>			
5-1/2", 17#, HCP-110, 8rd, LT&C (New)	0 - 7,000'	8580/2.37	10,640/3.43
445,000/2.13			
5-1/2", 17#, P-110, Ultra FJ (New & Sandblasted)	7,000' - 12,242'	7480/2.19	10,640/3.43
356,600/3.96			
<u>Make-up torque (ft/lbs)</u>	<u>Minimum</u>	<u>Optimum</u>	<u>Maximum</u>
5-1/2", 17#, P-110, Ultra FJ	*	*	*
5-1/2", 17#, P-110, 8rd, LT&C	3470	4620	5780

<u>INTERVAL</u>	<u>AMOUNT</u>	<u>FT OF</u>	<u>TYPE</u>	<u>GALS/SX</u>
<u>PPG</u>	<u>SXS</u>	<u>FILL</u>		
<u>FT³/SX</u>				
<u>PRODUCTION:</u>				
Lead: 3415' - 7100'	500	3685	Halco Tuned Lite	14.40
3.13				9.7
(50% excess				
circ to surface)				
Tail 7100' - 12242'	750	5142	Premium Plus Acid	11.34
2.62				15.0
(50% excess)			Soluble + 10 #/sk Silicate	
			50/50 Blend + 0.7% Halad-344	
			+ 0.3% HR-601 + 0.25 #/sk	
			D-AIR-3000	

Here is the casing and cement that I am going to use on the PLU #301H for the extended lateral plan. I am sorry that I didn't include this information on the Sundry notice that we sent in, and I appreciate the phone call this morning. Have a good day and thanks for your help.

Thanks
Jordan Evans