

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 ☐ Other2. Name of Operator **BOPCO, L. P.**3a. Address
P. O. Box 2760 Midland, TX 797023b. Phone No. (include area code)
432-683-2277

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: NWNE, 810' FNL, 1980' FEL, Sec 21, T24S, R30E, Lat N32.208278, Lon W103.883487

5. Lease Serial No.

NMLC 068431

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

NMNM 71016X

8. Well Name and No

Poker Lake Unit #293H

9. API Well No

~~20-015-35548~~ **30-015-38112**

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. requests the changes listed below be approved for the captioned well:

1. A change in direction and lateral length for both laterals on the Poker Lake Unit #293H. A new drilling plan describing both laterals and a new plat is attached

2. Dedicated acreage will be 400 acres for the first lateral as marked on attached plat.

3. Dedicated acreage will be 360 acres for the second lateral as marked on the attached plat.

BOPCO L.P. Bond # on file: COB00005014. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)**Jordan Evans**Title **Drilling Engineer**

Signature

Jordan Evans

Date

8-3-10**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

APPROVED**AUG 28 2010**

Date

**WESLEY W. INGRAM
PETROLEUM ENGINEER**

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)

KE 09/16/10

OCD CONDITION OF APPROVAL for Drilling:
Intent to drill ONLY --- CANNOT produce until the Non-Standard
Location has been approved by OCD Santa Fe office

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

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

Form C-102
Revised October 12, 2005

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name POKER LAKE UNIT 293	Well Number 1H
GRID No.	Operator Name BOPCO, L.P.	Elevation 3343'

Surface Location

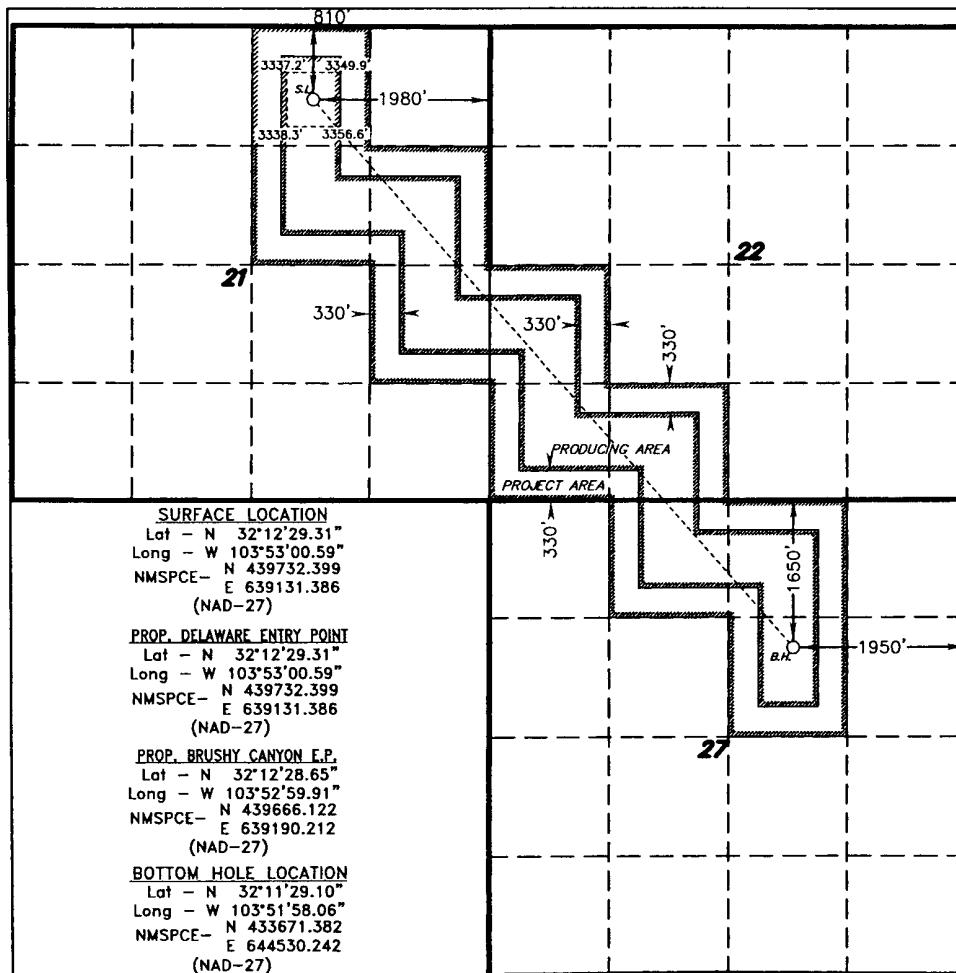
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	24 S	30 E		810	NORTH	1980	EAST	EDDY

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
G	27	24 S	30 E		1650	NORTH	1950	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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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 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.

Jordan Evans
Signature Date 8-3-10

JORDAN 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.

JULY 1, 2009
Date Surveyed
Signature & Seal of Professional Surveyor
W.C. Jones
7977

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

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	Pool Code	Pool Name
Property Code	Property Name POKER LAKE UNIT 293	Well Number 2H
OGRID No.	Operator Name BOPCO, L.P.	Elevation 3343'

Surface Location

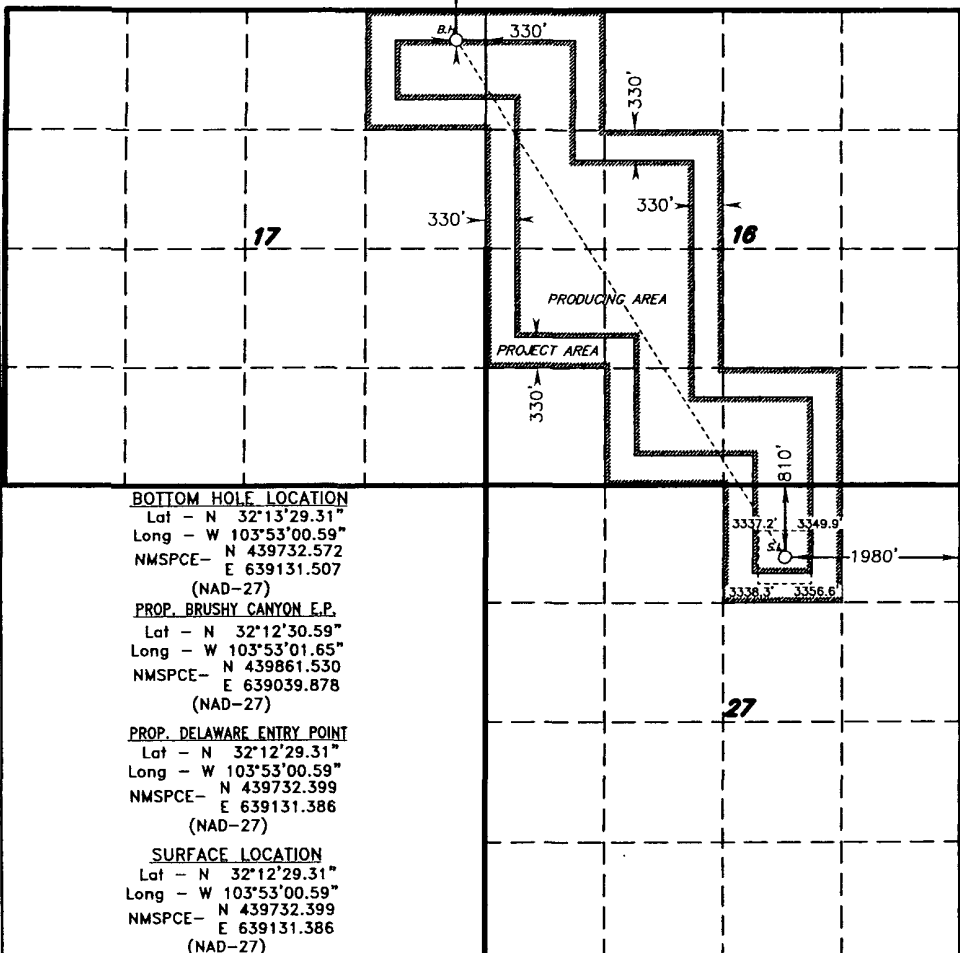
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	24 S	30 E		810	NORTH	1980	EAST	EDDY

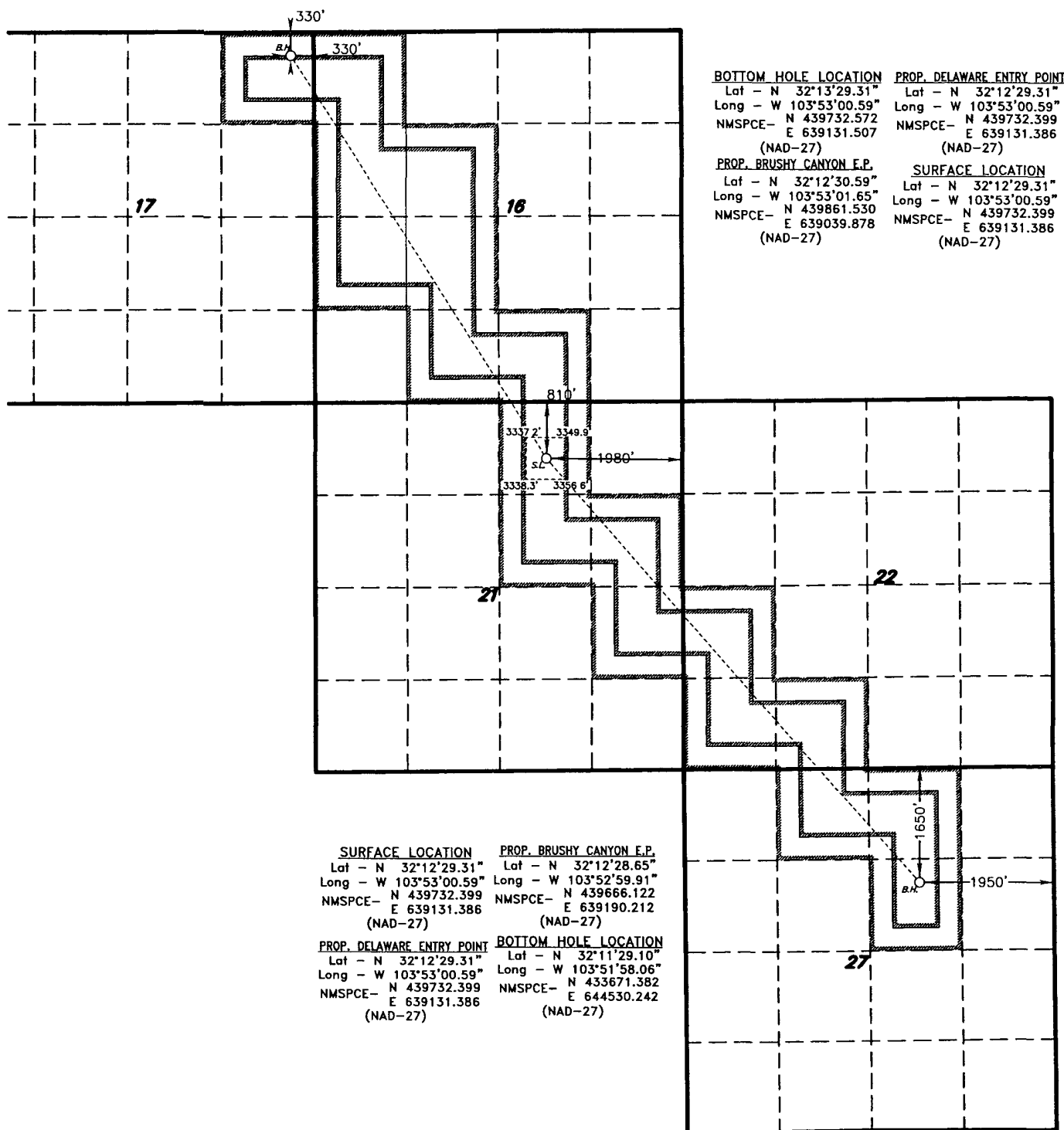
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	24 S	30 E		330	NORTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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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

 BOTTOM HOLE LOCATION Lat - N 32°13'29.31" Long - W 103°53'00.59" NMSPCE- N 439732.572 E 639131.507 (NAD-27) PROP. BRUSHY CANYON E.P. Lat - N 32°12'30.59" Long - W 103°53'01.65" NMSPCE- N 439861.530 E 639039.878 (NAD-27) PROP. DELAWARE ENTRY POINT Lat - N 32°12'29.31" Long - W 103°53'00.59" NMSPCE- N 439732.399 E 639131.386 (NAD-27) SURFACE LOCATION Lat - N 32°12'29.31" Long - W 103°53'00.59" NMSPCE- N 439732.399 E 639131.386 (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. <i>Jordan Evans</i> 8-3-10 Signature Date JORDAN 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. JULY 1, 2009 Date Surveyed GARY L. JONES Signature of Registered Professional Surveyor W.O. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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POKER LAKE UNIT 293 1H&2H
 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

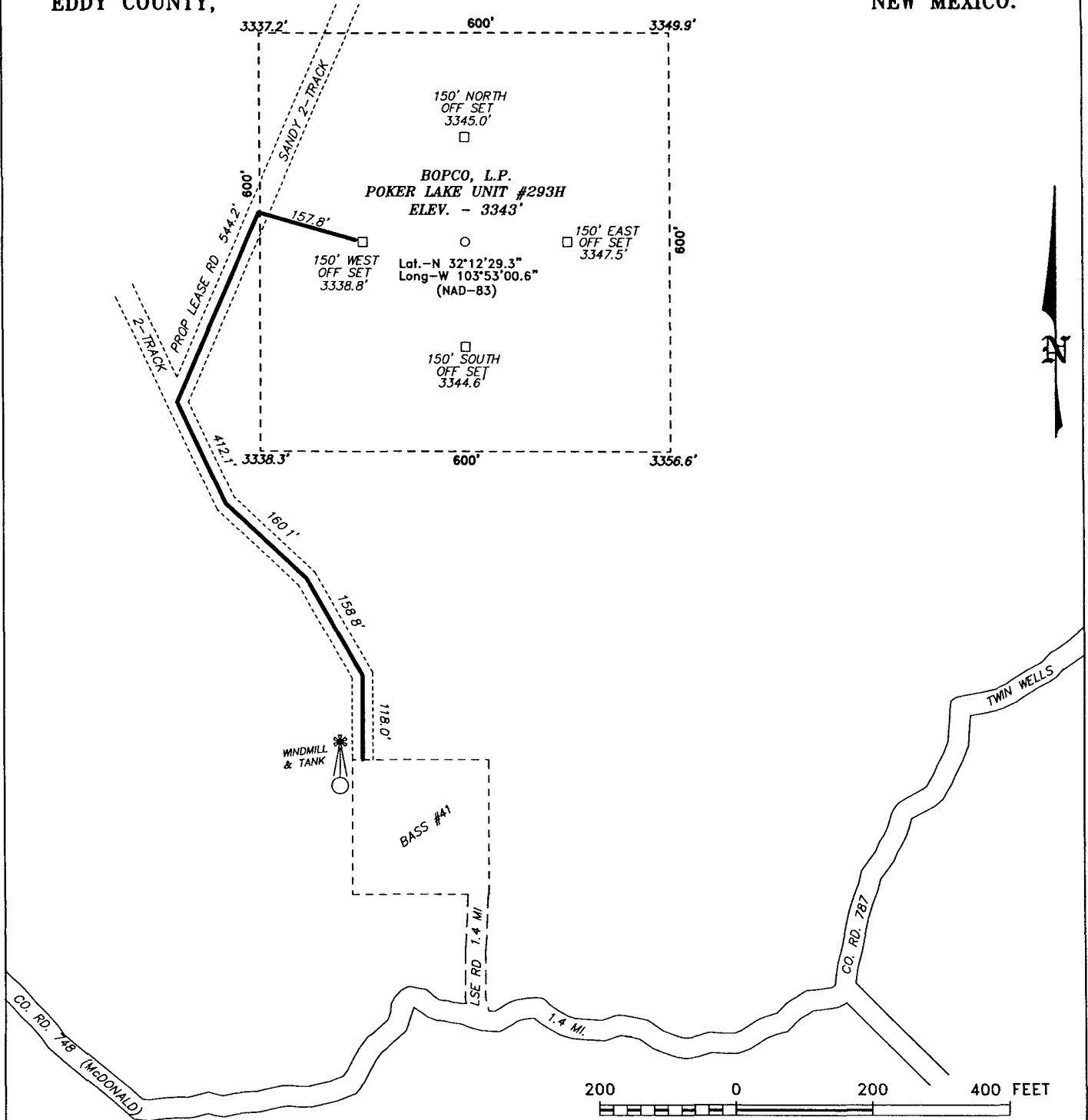
W.O. Number: JMS 17758C

Scale: 1" = 2000'



BOPCO, L.P.

SECTION 21, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF CO. RD. 787 (TWIN WELLS) AND CO. RD. 746 (McDONALD), PROCEED WEST ON CO. RD. 746 FOR 1.4 MILES TO LEASE ROAD. ON LEASE ROAD PROCEED NORTH 1.4 MILE TO THE #41 WELL AND PROPOSED LEASE ROAD.

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

W.O. Number: 17558

Drawn By: J. SMALL

Date: 07-01-2009

Disk: 17558W JMS

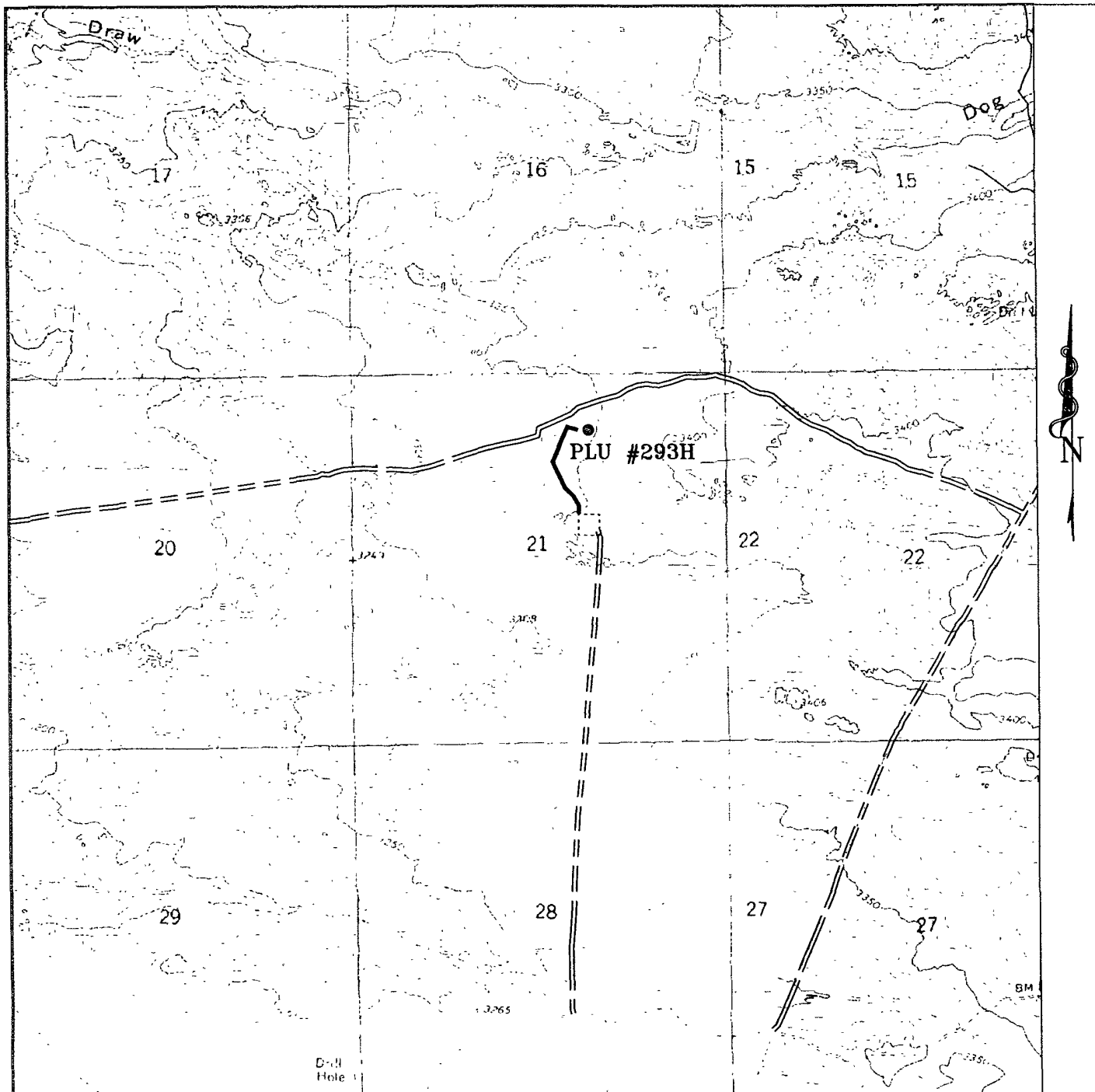
BOPCO, L.P.

REF: POKER LAKE UNIT #293H / WELL PAD AND TOPO

THE POKER LAKE UNIT No. 293H LOCATED 810'
FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF
SECTION 21, TOWNSHIP 24 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 07-01-2009

Sheet 1 of 1 Sheets



POKER LAKE UNIT #293H

810' FNL and 1980' FEL

Section 21, 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
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

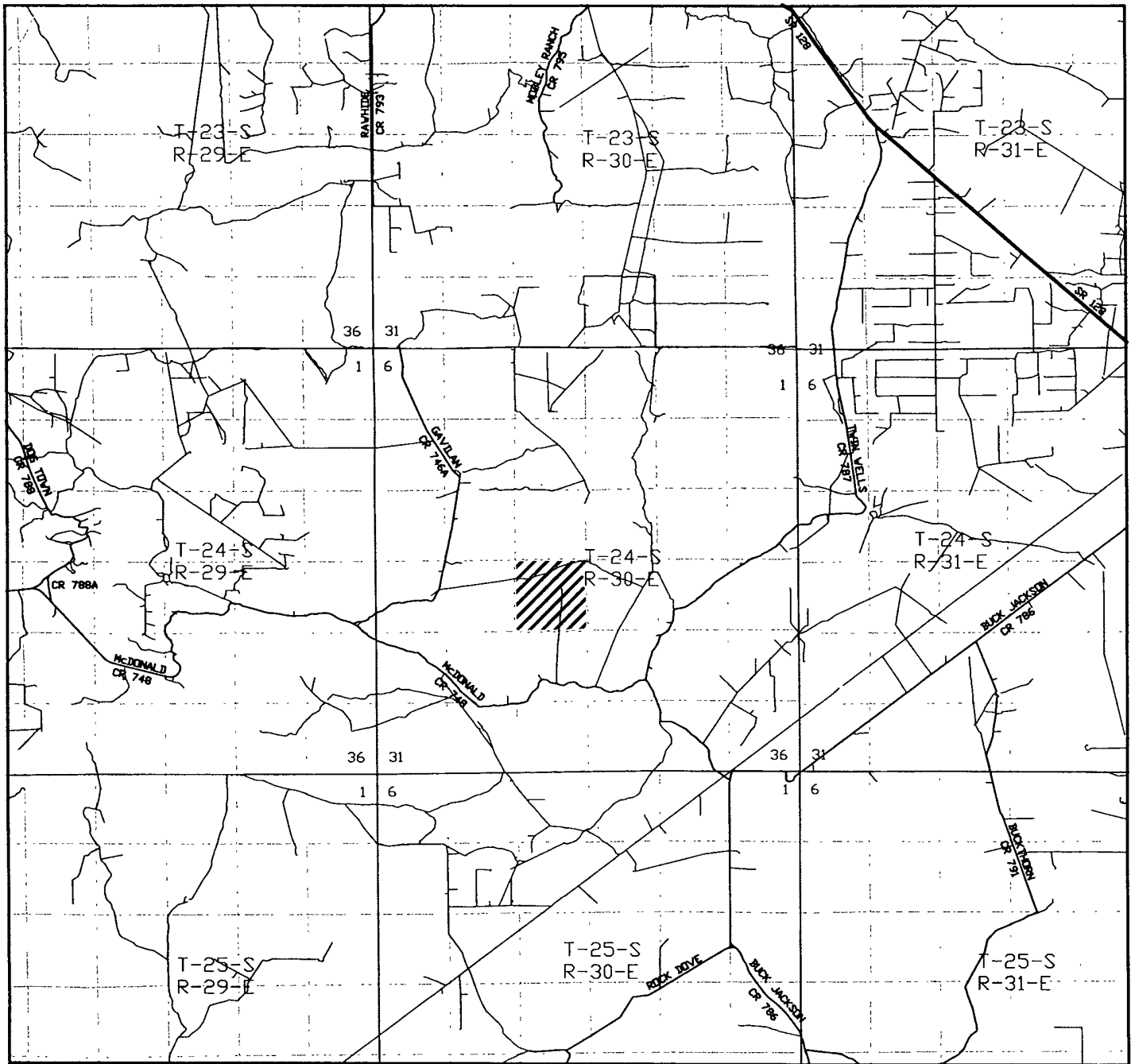
W O Number: JMS 17558T

Survey Date: 07-01-2009

Scale: 1" = 2000'

Date: 07-01-2009

BOPCO, L.P.



**basin
surveys**
focused on excellence
in the oilfield

W.O. Number: JMS 17558TR

Survey Date: 07-01-2009

Scale: 1" = 2 MILES

Date: 07-01-2009

BOPCO, L.P.

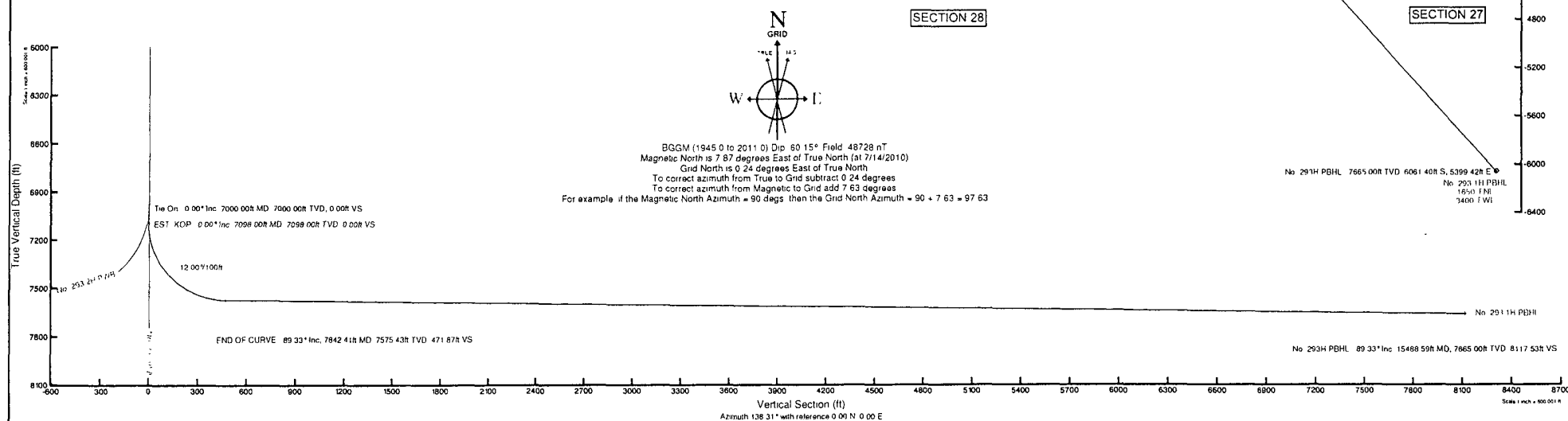
Slot No 293 SHL - 810' FNL & 1980' FEL
Well No 293 1H
Wellbore No. 293 1H PWB

Well Profile Data

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7000.00	0.000	138.308	7000.00	0.00	0.00	0.00	9.00
EST KOP	7098.00	0.000	138.306	7098.00	0.00	0.00	0.00	0.00
END OF CURVE	7842.41	89.329	138.306	7575.43	352.35	313.87	12.00	471.87
No. 280H PRL	15488.59	88.308	138.306	7665.40	6061.40	5309.42	0.00	8117.53



Plot reference wallpath is Prelim 2 True vertical depths are referenced to Rig on No. 293H SHL (KB) Measured depths are referenced to Rig on No. 293H SHL (KB) Rig on No. 293H SHL (KB) to Mean Sea Level 3362 feet Mean Sea Level to Afud line (Facility Power Lake Unit No. 293) 3343 feet Coordinates are in feet referenced in Surface Location		Grid System NAD27/TM New Mexico State Plane Eastern Zone (3001) US feet North Reference Grid north Scale True distance Depths are in feet Created by: Mark Hernandez on 7/14/2010
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Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H PWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 PWB at 7000.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999931	Report Generated	7/14/2010 at 4:25:22 PM
Convergence at slot	0.24° East	Database/Source file	WA_Midland/No._293_1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Facility Reference Pt			639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 293H SHL (KB) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 293H SHL (KB) to Mean Sea Level	3362.00ft
Vertical Reference Pt	Rig on No. 293H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 293H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	138.31°



Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H PWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 PWB at 7000.00 MD

WELLPATH DATA (90 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7000.00	0.000	138.306	7000.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	0.00	Tie On
7098.00	0.000	138.306	7098.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	0.00	EST. KOP
7100.00†	0.240	138.306	7100.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	12.00	
7200.00†	12.240	138.306	7199.23	10.85	-8.10	7.22	639138.61	439724.30	32°12'29.228"N	103°53'00.508"W	12.00	
7300.00†	24.240	138.306	7294.03	42.10	-31.43	28.00	639159.39	439700.97	32°12'28.996"N	103°53'00.267"W	12.00	
7393.51†	35.461	138.306	7375.00	88.57	-66.13	58.91	639190.30	439666.27	32°12'28.651"N	103°52'59.909"W	12.00	LWR Brushy Canyon
7400.00†	36.240	138.306	7380.26	92.37	-68.97	61.44	639192.82	439663.43	32°12'28.623"N	103°52'59.880"W	12.00	
7500.00†	48.240	138.306	7454.16	159.47	-119.08	106.07	639237.45	439613.33	32°12'28.126"N	103°52'59.363"W	12.00	
7600.00†	60.240	138.306	7512.49	240.47	-179.56	159.95	639291.33	439552.86	32°12'27.525"N	103°52'58.739"W	12.00	
7626.50†	63.420	138.306	7525.00	263.82	-197.00	175.48	639306.86	439535.41	32°12'27.352"N	103°52'58.559"W	12.00	LBC Y Sand
7700.00†	72.240	138.306	7552.71	331.82	-247.77	220.71	639352.09	439484.64	32°12'26.847"N	103°52'58.035"W	12.00	
7800.00†	84.240	138.306	7573.05	429.55	-320.74	285.71	639417.08	439411.68	32°12'26.123"N	103°52'57.282"W	12.00	
7842.41	89.329	138.306	7575.43	471.87	-352.35	313.87	639445.24	439380.08	32°12'25.809"N	103°52'56.956"W	12.00	END OF CURVE
7900.00†	89.329	138.306	7576.11	529.46	-395.35	352.17	639483.54	439337.08	32°12'25.382"N	103°52'56.512"W	0.00	
8000.00†	89.329	138.306	7577.28	629.45	-470.02	418.68	639550.05	439262.42	32°12'24.640"N	103°52'55.742"W	0.00	
8100.00†	89.329	138.306	7578.45	729.45	-544.68	485.20	639616.55	439187.76	32°12'23.898"N	103°52'54.971"W	0.00	
8200.00†	89.329	138.306	7579.62	829.44	-619.35	551.71	639683.06	439113.10	32°12'23.157"N	103°52'54.201"W	0.00	
8300.00†	89.329	138.306	7580.79	929.43	-694.01	618.22	639749.56	439038.44	32°12'22.415"N	103°52'53.430"W	0.00	
8400.00†	89.329	138.306	7581.96	1029.43	-768.68	684.73	639816.07	438963.78	32°12'21.674"N	103°52'52.660"W	0.00	
8500.00†	89.329	138.306	7583.14	1129.42	-843.34	751.24	639882.58	438889.12	32°12'20.932"N	103°52'51.889"W	0.00	
8600.00†	89.329	138.306	7584.31	1229.41	-918.01	817.75	639949.08	438814.46	32°12'20.190"N	103°52'51.119"W	0.00	
8700.00†	89.329	138.306	7585.48	1329.41	-992.67	884.26	640015.59	438739.80	32°12'19.449"N	103°52'50.349"W	0.00	
8800.00†	89.329	138.306	7586.65	1429.40	-1067.34	950.77	640082.10	438665.14	32°12'18.707"N	103°52'49.578"W	0.00	
8900.00†	89.329	138.306	7587.82	1529.39	-1142.01	1017.28	640148.60	438590.48	32°12'17.965"N	103°52'48.808"W	0.00	
9000.00†	89.329	138.306	7588.99	1629.39	-1216.67	1083.79	640215.11	438515.82	32°12'17.224"N	103°52'48.038"W	0.00	
9100.00†	89.329	138.306	7590.16	1729.38	-1291.34	1150.31	640281.61	438441.16	32°12'16.482"N	103°52'47.267"W	0.00	
9200.00†	89.329	138.306	7591.34	1829.37	-1366.00	1216.82	640348.12	438366.50	32°12'15.741"N	103°52'46.497"W	0.00	
9300.00†	89.329	138.306	7592.51	1929.36	-1440.67	1283.33	640414.63	438291.84	32°12'14.999"N	103°52'45.726"W	0.00	
9400.00†	89.329	138.306	7593.68	2029.36	-1515.33	1349.84	640481.13	438217.18	32°12'14.257"N	103°52'44.956"W	0.00	
9500.00†	89.329	138.306	7594.85	2129.35	-1590.00	1416.35	640547.64	438142.52	32°12'13.516"N	103°52'44.186"W	0.00	



Planned Wellpath Report

Prelim_2
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator **BOPCO, L.P.**
Area **Eddy County, NM**
Field **Poker Lake Unit**
Facility **Poker Lake Unit No. 293**

Slot **No. 293 SHL - 810' FNL & 1980' FEL**
Well **No. 293 1H**
Wellbore **No. 293 1H PWB**
Sidetrack from **No. 293 PWB at 7000.00 MD**

WELLPATH DATA (90 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9600.00†	89.329	138.306	7596.02	2229.34	-1664.66	1482.86	640614.15	438067.86	32°12'12.774"N	103°52'43.415"W	0.00	
9700.00†	89.329	138.306	7597.19	2329.34	-1739.33	1549.37	640680.65	437993.19	32°12'12.032"N	103°52'42.645"W	0.00	
9800.00†	89.329	138.306	7598.36	2429.33	-1813.99	1615.88	640747.16	437918.53	32°12'11.291"N	103°52'41.875"W	0.00	
9900.00†	89.329	138.306	7599.53	2529.32	-1888.66	1682.39	640813.66	437843.87	32°12'10.549"N	103°52'41.104"W	0.00	
10000.00†	89.329	138.306	7600.71	2629.32	-1963.32	1748.90	640880.17	437769.21	32°12'09.808"N	103°52'40.334"W	0.00	
10100.00†	89.329	138.306	7601.88	2729.31	-2037.99	1815.41	640946.68	437694.55	32°12'09.066"N	103°52'39.564"W	0.00	
10200.00†	89.329	138.306	7603.05	2829.30	-2112.66	1881.93	641013.18	437619.89	32°12'08.324"N	103°52'38.793"W	0.00	
10300.00†	89.329	138.306	7604.22	2929.30	-2187.32	1948.44	641079.69	437545.23	32°12'07.583"N	103°52'38.023"W	0.00	
10400.00†	89.329	138.306	7605.39	3029.29	-2261.99	2014.95	641146.20	437470.57	32°12'06.841"N	103°52'37.253"W	0.00	
10500.00†	89.329	138.306	7606.56	3129.28	-2336.65	2081.46	641212.70	437395.91	32°12'06.099"N	103°52'36.482"W	0.00	
10600.00†	89.329	138.306	7607.73	3229.28	-2411.32	2147.97	641279.21	437321.25	32°12'05.358"N	103°52'35.712"W	0.00	
10700.00†	89.329	138.306	7608.91	3329.27	-2485.98	2214.48	641345.71	437246.59	32°12'04.616"N	103°52'34.942"W	0.00	
10800.00†	89.329	138.306	7610.08	3429.26	-2560.65	2280.99	641412.22	437171.93	32°12'03.874"N	103°52'34.171"W	0.00	
10900.00†	89.329	138.306	7611.25	3529.26	-2635.31	2347.50	641478.73	437097.27	32°12'03.133"N	103°52'33.401"W	0.00	
11000.00†	89.329	138.306	7612.42	3629.25	-2709.98	2414.01	641545.23	437022.61	32°12'02.391"N	103°52'32.631"W	0.00	
11100.00†	89.329	138.306	7613.59	3729.24	-2784.64	2480.52	641611.74	436947.95	32°12'01.650"N	103°52'31.860"W	0.00	
11200.00†	89.329	138.306	7614.76	3829.23	-2859.31	2547.04	641678.25	436873.29	32°12'00.908"N	103°52'31.090"W	0.00	
11300.00†	89.329	138.306	7615.93	3929.23	-2933.97	2613.55	641744.75	436798.63	32°12'00.166"N	103°52'30.320"W	0.00	
11400.00†	89.329	138.306	7617.11	4029.22	-3008.64	2680.06	641811.26	436723.97	32°11'59.425"N	103°52'29.549"W	0.00	
11500.00†	89.329	138.306	7618.28	4129.21	-3083.31	2746.57	641877.76	436649.31	32°11'58.683"N	103°52'28.779"W	0.00	
11600.00†	89.329	138.306	7619.45	4229.21	-3157.97	2813.08	641944.27	436574.65	32°11'57.941"N	103°52'28.009"W	0.00	
11700.00†	89.329	138.306	7620.62	4329.20	-3232.64	2879.59	642010.78	436499.99	32°11'57.200"N	103°52'27.238"W	0.00	
11800.00†	89.329	138.306	7621.79	4429.19	-3307.30	2946.10	642077.28	436425.33	32°11'56.458"N	103°52'26.468"W	0.00	
11900.00†	89.329	138.306	7622.96	4529.19	-3381.97	3012.61	642143.79	436350.67	32°11'55.716"N	103°52'25.698"W	0.00	
12000.00†	89.329	138.306	7624.13	4629.18	-3456.63	3079.12	642210.30	436276.01	32°11'54.975"N	103°52'24.928"W	0.00	
12100.00†	89.329	138.306	7625.31	4729.17	-3531.30	3145.63	642276.80	436201.35	32°11'54.233"N	103°52'24.157"W	0.00	
12200.00†	89.329	138.306	7626.48	4829.17	-3605.96	3212.15	642343.31	436126.69	32°11'53.491"N	103°52'23.387"W	0.00	
12300.00†	89.329	138.306	7627.65	4929.16	-3680.63	3278.66	642409.81	436052.03	32°11'52.750"N	103°52'22.617"W	0.00	
12400.00†	89.329	138.306	7628.82	5029.15	-3755.29	3345.17	642476.32	435977.37	32°11'52.008"N	103°52'21.847"W	0.00	
12500.00†	89.329	138.306	7629.99	5129.15	-3829.96	3411.68	642542.83	435902.71	32°11'51.266"N	103°52'21.076"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator **BOPCO, L.P.**
Area **Eddy County, NM**
Field **Poker Lake Unit**
Facility **Poker Lake Unit No. 293**

Slot **No. 293 SHL - 810' FNL & 1980' FEL**
Well **No. 293 1H**
Wellbore **No. 293 1H PWB**
Sidetrack from **No. 293 PWB at 7000.00 MD**

WELLPATH DATA (90 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12600.00†	89.329	138.306	7631.16	5229.14	-3904.62	3478.19	642609.33	435828.05	32°11'50.525"N	103°52'20.306"W	0.00	
12700.00†	89.329	138.306	7632.33	5329.13	-3979.29	3544.70	642675.84	435753.39	32°11'49.783"N	103°52'19.536"W	0.00	
12800.00†	89.329	138.306	7633.51	5429.12	-4053.95	3611.21	642742.35	435678.73	32°11'49.041"N	103°52'18.766"W	0.00	
12900.00†	89.329	138.306	7634.68	5529.12	-4128.62	3677.72	642808.85	435604.07	32°11'48.300"N	103°52'17.995"W	0.00	
13000.00†	89.329	138.306	7635.85	5629.11	-4203.29	3744.23	642875.36	435529.41	32°11'47.558"N	103°52'17.225"W	0.00	
13100.00†	89.329	138.306	7637.02	5729.10	-4277.95	3810.74	642941.86	435454.75	32°11'46.816"N	103°52'16.455"W	0.00	
13200.00†	89.329	138.306	7638.19	5829.10	-4352.62	3877.25	643008.37	435380.09	32°11'46.075"N	103°52'15.685"W	0.00	
13300.00†	89.329	138.306	7639.36	5929.09	-4427.28	3943.77	643074.88	435305.43	32°11'45.333"N	103°52'14.914"W	0.00	
13400.00†	89.329	138.306	7640.53	6029.08	-4501.95	4010.28	643141.38	435230.77	32°11'44.591"N	103°52'14.144"W	0.00	
13500.00†	89.329	138.306	7641.71	6129.08	-4576.61	4076.79	643207.89	435156.11	32°11'43.850"N	103°52'13.374"W	0.00	
13600.00†	89.329	138.306	7642.88	6229.07	-4651.28	4143.30	643274.40	435081.45	32°11'43.108"N	103°52'12.604"W	0.00	
13700.00†	89.329	138.306	7644.05	6329.06	-4725.94	4209.81	643340.90	435006.79	32°11'42.366"N	103°52'11.833"W	0.00	
13800.00†	89.329	138.306	7645.22	6429.06	-4800.61	4276.32	643407.41	434932.13	32°11'41.625"N	103°52'11.063"W	0.00	
13900.00†	89.329	138.306	7646.39	6529.05	-4875.27	4342.83	643473.91	434857.47	32°11'40.883"N	103°52'10.293"W	0.00	
14000.00†	89.329	138.306	7647.56	6629.04	-4949.94	4409.34	643540.42	434782.81	32°11'40.141"N	103°52'09.523"W	0.00	
14100.00†	89.329	138.306	7648.73	6729.04	-5024.60	4475.85	643606.93	434708.15	32°11'39.400"N	103°52'08.753"W	0.00	
14200.00†	89.329	138.306	7649.91	6829.03	-5099.27	4542.36	643673.43	434633.49	32°11'38.658"N	103°52'07.982"W	0.00	
14300.00†	89.329	138.306	7651.08	6929.02	-5173.94	4608.88	643739.94	434558.83	32°11'37.916"N	103°52'07.212"W	0.00	
14400.00†	89.329	138.306	7652.25	7029.02	-5248.60	4675.39	643806.45	434484.17	32°11'37.175"N	103°52'06.442"W	0.00	
14500.00†	89.329	138.306	7653.42	7129.01	-5323.27	4741.90	643872.95	434409.51	32°11'36.433"N	103°52'05.672"W	0.00	
14600.00†	89.329	138.306	7654.59	7229.00	-5397.93	4808.41	643939.46	434334.85	32°11'35.691"N	103°52'04.902"W	0.00	
14700.00†	89.329	138.306	7655.76	7328.99	-5472.60	4874.92	644005.96	434260.19	32°11'34.949"N	103°52'04.131"W	0.00	
14800.00†	89.329	138.306	7656.93	7428.99	-5547.26	4941.43	644072.47	434185.53	32°11'34.208"N	103°52'03.361"W	0.00	
14900.00†	89.329	138.306	7658.11	7528.98	-5621.93	5007.94	644138.98	434110.87	32°11'33.466"N	103°52'02.591"W	0.00	
15000.00†	89.329	138.306	7659.28	7628.97	-5696.59	5074.45	644205.48	434036.21	32°11'32.724"N	103°52'01.821"W	0.00	
15100.00†	89.329	138.306	7660.45	7728.97	-5771.26	5140.96	644271.99	433961.55	32°11'31.983"N	103°52'01.051"W	0.00	
15200.00†	89.329	138.306	7661.62	7828.96	-5845.92	5207.47	644338.50	433886.89	32°11'31.241"N	103°52'00.281"W	0.00	
15300.00†	89.329	138.306	7662.79	7928.95	-5920.59	5273.99	644405.00	433812.23	32°11'30.499"N	103°51'59.510"W	0.00	
15400.00†	89.329	138.306	7663.96	8028.95	-5995.25	5340.50	644471.51	433737.57	32°11'29.758"N	103°51'58.740"W	0.00	
15488.59	89.329	138.306	7665.00†	8117.53	-6061.40	5399.42	644530.43	433671.43	32°11'29.100"N	103°51'58.058"W	0.00	No. 293H PBHL



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 1H
Field	Poker Lake Unit	Wellbore	No. 293 1H PWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 PWB at 7000.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 293 1H PBHL	15488.59	7665.00	-6061.40	5399.42	644530.43	433671.43	32°11'29.100"N	103°51'58.058"W	point

SURVEY PROGRAM Ref Wellbore: No. 293 1H PWB Ref Wellpath: Prelim_2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	15488.59	NaviTrak (Standard)		No. 293 1H PWB

Location	Eddy County, NM
Field	Poker Lake Unit
Facility	Poker Lake Unit No. 293

Slot No 293 SHL - 810' FNL & 1980' FEL
Well No 293 2H
Wellbore No 293 2H PW8



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
EST On	6900.00	0.000	327.094	6900.00	0.00	0.00	0.00	0.00
TIE KOP	6980.00	0.000	327.094	6980.00	0.00	0.00	0.00	0.00
END OF CURVE	7837.20	90.006	327.094	7525.67	458.18	296.48	10.50	545.73
No. 293.2H PBHL	14125.62	90.006	327.094	7525.00	4537.69	3712.75	10.00	6834.15



Plot reference wellpath is Prelim 2

True vertical depths are referenced to Rig on No. 293H SHL (KB)

Measured depths are referenced to Rig on No. 293H SHL (KB)

Rig on No. 293H SHL (KB) to Mean Sea Level 3362 feet

Mean Sea Level to Mud line (Facility Poker Lake Unit No. 293) -3343 feet

Coordinates are in feet referenced to Surface Location

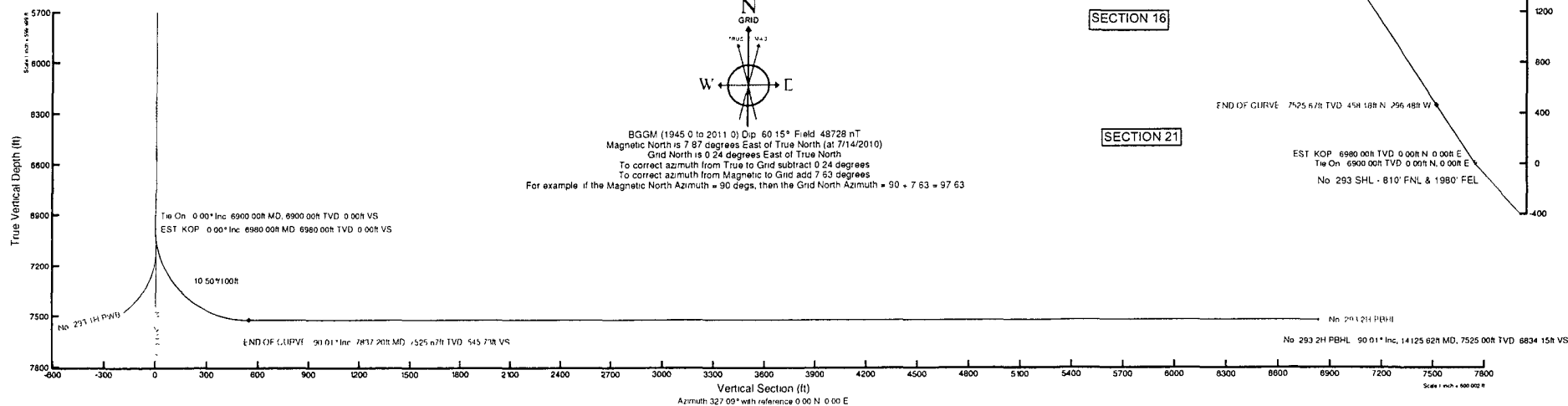
Grid System NAD27 / TM New Mexico State Planes, Eastern Zone (3001) US feet

North Reference Grid north

Scale True distance

Depths are in feet

Created by Victor Hernandez on 7/14/2010





Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION

Operator	BOPCO, L.P.	Slot	No. 293 SHL - 810' FNL & 1980' FEL
Area	Eddy County, NM	Well	No. 293 2H
Field	Poker Lake Unit	Wellbore	No. 293 2H PWB
Facility	Poker Lake Unit No. 293	Sidetrack from	No. 293 PWB at 6900.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999931	Report Generated	7/14/2010 at 4:46:15 PM
Convergence at slot	0.24° East	Database/Source file	WA_Midland/No._293_2H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Facility Reference Pt			639131.39	439732.40	32°12'29.308"N	103°53'00.591"W
Field Reference Pt			630272.49	405347.85	32°06'49.387"N	103°54'45.266"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 293H SHL (KB) to GL	19.00ft
Horizontal Reference Pt	Surface Location	Rig on No. 293H SHL (KB) to Mean Sea Level	3362.00ft
Vertical Reference Pt	Rig on No. 293H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 293H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	327.09°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator **BOPCO, L.P.**
Area **Eddy County, NM**
Field **Poker Lake Unit**
Facility **Poker Lake Unit No. 293**

Slot **No. 293 SHL - 810' FNL & 1980' FEL**
Well **No. 293 2H**
Wellbore **No. 293 2H PWB**
Sidetrack from **No. 293 PWB at 6900.00 MD**

WELLPATH DATA (78 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6900.00	0.000	327.094	6900.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	0.00	Tie On
6980.00	0.000	327.094	6980.00	0.00	0.00	0.00	639131.39	439732.40	32°12'29.308"N	103°53'00.591"W	0.00	EST. KOP
7000.00†	2.100	327.094	7000.00	0.37	0.31	-0.20	639131.19	439732.71	32°12'29.311"N	103°53'00.594"W	10.50	
7100.00†	12.600	327.094	7099.04	13.14	11.03	-7.14	639124.25	439743.43	32°12'29.418"N	103°53'00.674"W	10.50	
7200.00†	23.100	327.094	7194.09	43.75	36.73	-23.77	639107.62	439769.13	32°12'29.673"N	103°53'00.866"W	10.50	
7300.00†	33.600	327.094	7281.97	91.17	76.54	-49.53	639081.86	439808.94	32°12'30.068"N	103°53'01.164"W	10.50	
7400.00†	44.100	327.094	7359.74	153.81	129.13	-83.56	639047.84	439861.52	32°12'30.590"N	103°53'01.558"W	10.50	
7421.67†	46.375	327.094	7375.00	169.20	142.05	-91.92	639039.48	439874.44	32°12'30.718"N	103°53'01.654"W	10.50	LWR Brushy Canyon
7500.00†	54.600	327.094	7424.79	229.58	192.74	-124.72	639006.68	439925.13	32°12'31.221"N	103°53'02.033"W	10.50	
7600.00†	65.100	327.094	7474.95	315.93	265.24	-171.63	638959.77	439997.62	32°12'31.940"N	103°53'02.576"W	10.50	
7700.00†	75.600	327.094	7508.53	409.97	344.20	-222.72	638908.68	440076.57	32°12'32.723"N	103°53'03.167"W	10.50	
7800.00†	86.100	327.094	7524.41	508.56	426.97	-276.28	638855.13	440159.34	32°12'33.545"N	103°53'03.786"W	10.50	
7810.02†	87.152	327.094	7525.00	518.56	435.37	-281.72	638849.69	440167.73	32°12'33.628"N	103°53'03.849"W	10.50	LBC Y Sand
7837.20	90.006	327.094	7525.67	545.73	458.18	-296.48	638834.93	440190.54	32°12'33.854"N	103°53'04.020"W	10.50	END OF CURVE
7900.00†	90.006	327.094	7525.67	608.53	510.90	-330.59	638800.82	440243.26	32°12'34.378"N	103°53'04.414"W	0.00	
8000.00†	90.006	327.094	7525.66	708.53	594.86	-384.92	638746.50	440327.21	32°12'35.211"N	103°53'05.042"W	0.00	
8100.00†	90.006	327.094	7525.65	808.53	678.81	-439.25	638692.17	440411.16	32°12'36.044"N	103°53'05.670"W	0.00	
8200.00†	90.006	327.094	7525.64	908.53	762.77	-493.57	638637.85	440495.11	32°12'36.877"N	103°53'06.299"W	0.00	
8300.00†	90.006	327.094	7525.62	1008.53	846.72	-547.90	638583.53	440579.06	32°12'37.710"N	103°53'06.927"W	0.00	
8400.00†	90.006	327.094	7525.61	1108.53	930.68	-602.23	638529.21	440663.01	32°12'38.543"N	103°53'07.555"W	0.00	
8500.00†	90.006	327.094	7525.60	1208.53	1014.64	-656.55	638474.88	440746.96	32°12'39.376"N	103°53'08.183"W	0.00	
8600.00†	90.006	327.094	7525.59	1308.53	1098.59	-710.88	638420.56	440830.91	32°12'40.209"N	103°53'08.811"W	0.00	
8700.00†	90.006	327.094	7525.58	1408.53	1182.55	-765.21	638366.24	440914.86	32°12'41.042"N	103°53'09.440"W	0.00	
8800.00†	90.006	327.094	7525.57	1508.53	1266.50	-819.53	638311.92	440998.82	32°12'41.875"N	103°53'10.068"W	0.00	
8900.00†	90.006	327.094	7525.56	1608.53	1350.46	-873.86	638257.59	441082.77	32°12'42.708"N	103°53'10.696"W	0.00	
9000.00†	90.006	327.094	7525.55	1708.53	1434.42	-928.18	638203.27	441166.72	32°12'43.541"N	103°53'11.324"W	0.00	
9100.00†	90.006	327.094	7525.54	1808.53	1518.37	-982.51	638148.95	441250.67	32°12'44.374"N	103°53'11.953"W	0.00	
9200.00†	90.006	327.094	7525.53	1908.53	1602.33	-1036.84	638094.63	441334.62	32°12'45.207"N	103°53'12.581"W	0.00	
9300.00†	90.006	327.094	7525.52	2008.53	1686.29	-1091.16	638040.30	441418.57	32°12'46.040"N	103°53'13.209"W	0.00	
9400.00†	90.006	327.094	7525.51	2108.53	1770.24	-1145.49	637985.98	441502.52	32°12'46.873"N	103°53'13.837"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator **BOPCO, L.P.**
Area **Eddy County, NM**
Field **Poker Lake Unit**
Facility **Poker Lake Unit No. 293**

Slot **No. 293 SHL - 810' FNL & 1980' FEL**
Well **No. 293 2H**
Wellbore **No. 293 2H PWB**
Sidetrack from **No. 293 PWB at 6900.00 MD**

WELLPATH DATA (78 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9500.00†	90.006	327.094	7525.50	2208.53	1854.20	-1199.82	637931.66	441586.47	32°12'47.706"N	103°53'14.466"W	0.00	
9600.00†	90.006	327.094	7525.49	2308.53	1938.15	-1254.14	637877.34	441670.42	32°12'48.539"N	103°53'15.094"W	0.00	
9700.00†	90.006	327.094	7525.47	2408.53	2022.11	-1308.47	637823.01	441754.37	32°12'49.372"N	103°53'15.722"W	0.00	
9800.00†	90.006	327.094	7525.46	2508.53	2106.07	-1362.80	637768.69	441838.32	32°12'50.205"N	103°53'16.350"W	0.00	
9900.00†	90.006	327.094	7525.45	2608.53	2190.02	-1417.12	637714.37	441922.27	32°12'51.038"N	103°53'16.979"W	0.00	
10000.00†	90.006	327.094	7525.44	2708.53	2273.98	-1471.45	637660.04	442006.22	32°12'51.871"N	103°53'17.607"W	0.00	
10100.00†	90.006	327.094	7525.43	2808.53	2357.93	-1525.78	637605.72	442090.17	32°12'52.704"N	103°53'18.235"W	0.00	
10200.00†	90.006	327.094	7525.42	2908.53	2441.89	-1580.10	637551.40	442174.12	32°12'53.537"N	103°53'18.863"W	0.00	
10300.00†	90.006	327.094	7525.41	3008.53	2525.85	-1634.43	637497.08	442258.07	32°12'54.370"N	103°53'19.492"W	0.00	
10400.00†	90.006	327.094	7525.40	3108.53	2609.80	-1688.76	637442.75	442342.02	32°12'55.203"N	103°53'20.120"W	0.00	
10500.00†	90.006	327.094	7525.39	3208.53	2693.76	-1743.08	637388.43	442425.97	32°12'56.036"N	103°53'20.748"W	0.00	
10600.00†	90.006	327.094	7525.38	3308.53	2777.72	-1797.41	637334.11	442509.92	32°12'56.869"N	103°53'21.377"W	0.00	
10700.00†	90.006	327.094	7525.37	3408.53	2861.67	-1851.73	637279.79	442593.87	32°12'57.702"N	103°53'22.005"W	0.00	
10800.00†	90.006	327.094	7525.36	3508.53	2945.63	-1906.06	637225.46	442677.82	32°12'58.535"N	103°53'22.633"W	0.00	
10900.00†	90.006	327.094	7525.35	3608.53	3029.58	-1960.39	637171.14	442761.77	32°12'59.368"N	103°53'23.261"W	0.00	
11000.00†	90.006	327.094	7525.34	3708.53	3113.54	-2014.71	637116.82	442845.72	32°13'00.201"N	103°53'23.890"W	0.00	
11100.00†	90.006	327.094	7525.32	3808.53	3197.50	-2069.04	637062.50	442929.67	32°13'01.034"N	103°53'24.518"W	0.00	
11200.00†	90.006	327.094	7525.31	3908.53	3281.45	-2123.37	637008.17	443013.62	32°13'01.867"N	103°53'25.146"W	0.00	
11300.00†	90.006	327.094	7525.30	4008.53	3365.41	-2177.69	636953.85	443097.57	32°13'02.700"N	103°53'25.775"W	0.00	
11400.00†	90.006	327.094	7525.29	4108.53	3449.36	-2232.02	636899.53	443181.52	32°13'03.533"N	103°53'26.403"W	0.00	
11500.00†	90.006	327.094	7525.28	4208.53	3533.32	-2286.35	636845.21	443265.47	32°13'04.366"N	103°53'27.031"W	0.00	
11600.00†	90.006	327.094	7525.27	4308.53	3617.28	-2340.67	636790.88	443349.42	32°13'05.199"N	103°53'27.660"W	0.00	
11700.00†	90.006	327.094	7525.26	4408.53	3701.23	-2395.00	636736.56	443433.37	32°13'06.032"N	103°53'28.288"W	0.00	
11800.00†	90.006	327.094	7525.25	4508.53	3785.19	-2449.33	636682.24	443517.32	32°13'06.865"N	103°53'28.916"W	0.00	
11900.00†	90.006	327.094	7525.24	4608.53	3869.15	-2503.65	636627.92	443601.27	32°13'07.698"N	103°53'29.544"W	0.00	
12000.00†	90.006	327.094	7525.23	4708.53	3953.10	-2557.98	636573.59	443685.22	32°13'08.531"N	103°53'30.173"W	0.00	
12100.00†	90.006	327.094	7525.22	4808.53	4037.06	-2612.30	636519.27	443769.17	32°13'09.364"N	103°53'30.801"W	0.00	
12200.00†	90.006	327.094	7525.21	4908.53	4121.01	-2666.63	636464.95	443853.12	32°13'10.197"N	103°53'31.429"W	0.00	
12300.00†	90.006	327.094	7525.20	5008.53	4204.97	-2720.96	636410.62	443937.07	32°13'11.030"N	103°53'32.058"W	0.00	
12400.00†	90.006	327.094	7525.18	5108.53	4288.93	-2775.28	636356.30	444021.02	32°13'11.863"N	103°53'32.686"W	0.00	



Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION

Operator **BOPCO, L.P.**
Area **Eddy County, NM**
Field **Poker Lake Unit**
Facility **Poker Lake Unit No. 293**

Slot **No. 293 SHL - 810' FNL & 1980' FEL**
Well **No. 293 2H**
Wellbore **No. 293 2H PWB**
Sidetrack from **No. 293 PWB at 6900.00 MD**

WELLPATH DATA (78 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12500.00†	90.006	327.094	7525.17	5208.53	4372.88	-2829.61	636301.98	444104.97	32°13'12.696"N	103°53'33.314"W	0.00	
12600.00†	90.006	327.094	7525.16	5308.53	4456.84	-2883.94	636247.66	444188.92	32°13'13.529"N	103°53'33.943"W	0.00	
12700.00†	90.006	327.094	7525.15	5408.53	4540.79	-2938.26	636193.33	444272.87	32°13'14.362"N	103°53'34.571"W	0.00	
12800.00†	90.006	327.094	7525.14	5508.53	4624.75	-2992.59	636139.01	444356.82	32°13'15.195"N	103°53'35.200"W	0.00	
12900.00†	90.006	327.094	7525.13	5608.53	4708.71	-3046.92	636084.69	444440.77	32°13'16.028"N	103°53'35.828"W	0.00	
13000.00†	90.006	327.094	7525.12	5708.53	4792.66	-3101.24	636030.37	444524.72	32°13'16.861"N	103°53'36.456"W	0.00	
13100.00†	90.006	327.094	7525.11	5808.53	4876.62	-3155.57	635976.04	444608.67	32°13'17.694"N	103°53'37.085"W	0.00	
13200.00†	90.006	327.094	7525.10	5908.53	4960.58	-3209.90	635921.72	444692.62	32°13'18.527"N	103°53'37.713"W	0.00	
13300.00†	90.006	327.094	7525.09	6008.53	5044.53	-3264.22	635867.40	444776.57	32°13'19.360"N	103°53'38.341"W	0.00	
13400.00†	90.006	327.094	7525.08	6108.53	5128.49	-3318.55	635813.08	444860.52	32°13'20.193"N	103°53'38.970"W	0.00	
13500.00†	90.006	327.094	7525.07	6208.53	5212.44	-3372.88	635758.75	444944.48	32°13'21.026"N	103°53'39.598"W	0.00	
13600.00†	90.006	327.094	7525.06	6308.53	5296.40	-3427.20	635704.43	445028.43	32°13'21.859"N	103°53'40.226"W	0.00	
13700.00†	90.006	327.094	7525.05	6408.53	5380.36	-3481.53	635650.11	445112.38	32°13'22.692"N	103°53'40.855"W	0.00	
13800.00†	90.006	327.094	7525.03	6508.53	5464.31	-3535.85	635595.79	445196.33	32°13'23.524"N	103°53'41.483"W	0.00	
13900.00†	90.006	327.094	7525.02	6608.53	5548.27	-3590.18	635541.46	445280.28	32°13'24.357"N	103°53'42.112"W	0.00	
14000.00†	90.006	327.094	7525.01	6708.53	5632.22	-3644.51	635487.14	445364.23	32°13'25.190"N	103°53'42.740"W	0.00	
14100.00†	90.006	327.094	7525.00	6808.53	5716.18	-3698.83	635432.82	445448.18	32°13'26.023"N	103°53'43.368"W	0.00	
14125.62	90.006	327.094	7525.00 ¹	6834.15	5737.69	-3712.75	635418.90	445469.69	32°13'26.237"N	103°53'43.529"W	0.00	No 293 2H PBHL

BOPCO, L.P.

Location	Eddy County NM	Slot	No 293 SHL - 810' FNL & 1980 FEL
Field	Poker Lake Unit	Well	No 293 1H
Facility	Poker Lake Unit No 293	Wellbore	No 293 1H PWB



Plot reference wellpath is Preim 2 PLU No. 293 No. 14 and No. 214
True vertical depths are referenced to Rig on No. 293H SHL (KB)
Measured depths are referenced to Rig on No. 293H SHL (KB)
Rig on No. 293H SHL (KB) to Mean Sea Level 3362 feet
Mean Sea Level to Mud line (Facility Poker Lake Unit No. 293) -3343 feet
Coordinates are in feet referenced to Surface Location

Grid System: NAD27 / TM New Mexico State Planes Eastern Zone (3001) US feet
North Reference: Grid north
Scale: True distance
Depths are in feet
Created by: Victor Hernandez on 7/14/2010

