

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCS Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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. NMLC064894A
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
Contact: WHITNEY MCKEE E-Mail: wbmckee@basspet.com		7. If Unit or CA/Agreement, Name and/or No. 891000303X
3a. Address P O BOX 2760 MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-683-2277	8. Well Name and No. POKER LAKE UNIT CVX JV PC 021H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 17 T25S R30E NESE 330FSL 675FEL 32.072550 N Lat, 103.534730 W Lon		9. API Well No. 30-015-42390-00-X1
		10. Field and Pool, or Exploratory UNDESIGNATED CORRAL CANYON BS
		11. County or Parish, and 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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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. respectfully requests to change the BHL and target along with the new TD and changes in the cement volumes on the 5-1/2" production string. The percent excess used on the cement below the KOP is 30% and above the KOP 70%. An 8-3/4" hole will be drilled from the 9-5/8" casing point at 3,700' to 10,484' and a 7-7/8" hole will be drilled from 10,484' to a TD of 17,528 feet. The original APD 5-1/2" cement design and revised cement design are summarize in the two tables attached.

change per
EC #250816

Accepted for record

NMOC D-105

NM OIL CONSERVATION
ARTESIA DISTRICT

8-25-14

AUG 25 2014

Original COA still stand

RECEIVED

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #255818 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 08/14/2014 (14JAM0385SE)	
Name (Printed/Typed) DON WOOD	Title DRILLING ENGINEER
Signature (Electronic Submission)	Date 08/05/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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.	Office _____
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 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.	

APPROVED

AUG 21 2014

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6181 Fax: (505) 393-6720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3480 Fax: (505) 478-3482

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 August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 97913	Pool Name UNDESIGNATED; BONE SPRING
Property Code 40065	Property Name POKER LAKE UNIT CVX JV PC	Well Number 021H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3233'

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	17	25 S	30 E		330	SOUTH	675	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	8	25 S	30 E		2310	SOUTH	675	EAST	EDDY

Dedicated Acres 240	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

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°08'37.77" Long - W 103°53'47.43" NMSPCE- N 416319.4 E 635202.5 (NAD-27)	N: 419250.7 E: 630517.8 NAD 27 N: 416293.6 E: 630527.3 NAD 27 N: 413938.8 E: 630537.4 NAD 27 N: 411280.8 E: 630551.8 NAD 27 N: 408624.9 E: 630565.8 NAD 27	N: 419343.8 E: 635877.3 NAD 27 N: 418882.1 E: 635877.5 NAD 27 N: 414019.8 E: 635875.6 NAD 27 N: 411211.7 E: 635899.8 NAD 27 N: 408560.3 E: 633243.6 NAD 27 N: 408095.0 E: 635020.0 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. <i>Whitney McKee</i> 8/19/14 Signature Date Whitney McKee Printed Name wbmckee@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. SEP 10 2013 DATE SURVEYED JONES Signature Seal of Professional Surveyor Certification of Jones 7977 BASIN SURVEYS 0' 1500' 3000' 4500' 6000' SCALE: 1" = 3000' WO Num: 29388
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TO: Whitney McKee
 Todd Carpenter
FROM: Don Wood
SUBJECT: PLU CVX JV PC #021H 5-1/2" Production Casing Cement Job Changes
DATE: August 7, 2014

Along with the BHL and target change a sundry should be filed for the new TD and changes in the cement volumes on the 5-1/2" production string. The percent excess used on the cement below the KOP is 30% and above the KOP 70%. An 8-3/4" hole will be drilled from the 9-5/8" casing point at 3,700' to 10,484' and a 7-7/8" hole will be drilled from 10,484' to a TD of 17,528 feet.

The original APD 5-1/2" cement design and revised cement design are summarize in the two tables below.

Original APD Design

INTERVAL	SACKS	FT of FILL	TYPE	GAL/SX	PPG	FT3/SX
Production						
Stage 1						
Lead: 5,000-9,800'	480	4,800'	Tuned Light + 0.125 pps Poly-E-Flake	14.87	11.0	2.64
Tail: 9,800'-14,693'	640	4,893	Class "H" +0.5% Halad-344 + 0.25% CFR-3 + 0.5% Econolite	11.41	12.0	2.03
Stage 2						
Lead: 3,283-5,000'	180	1,717	Tuned Light + 0.125 pps Poly-E-Flake	14.87	11.0	2.64

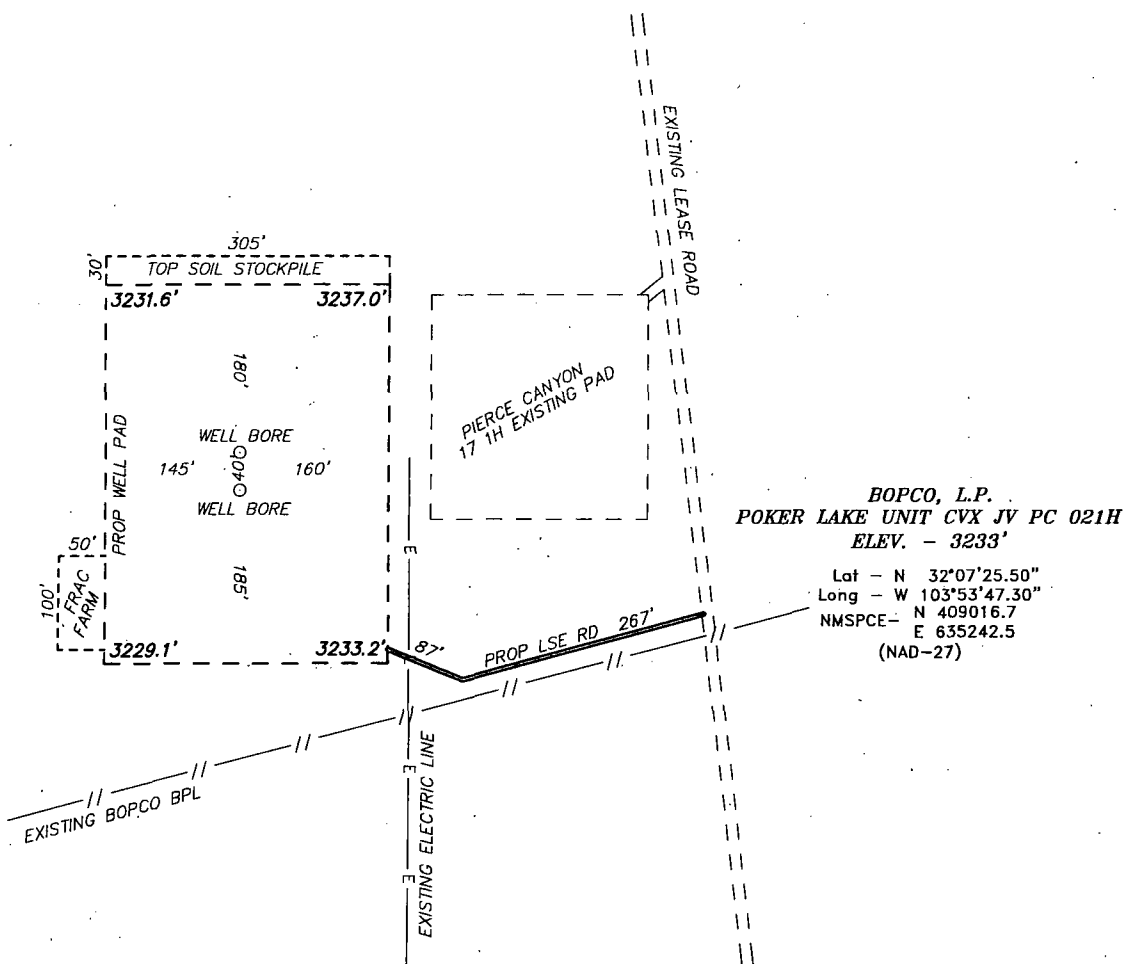
Revised 5-1/2" Production Cement Design

INTERVAL	SACKS	FT of FILL	TYPE	GAL/SX	PPG	FT3/SX
Production						
Stage 1						
Lead: 5,000-9,572'	744	4,572'	Tuned Light + 0.125 pps Poly-E-Flake	14.87	11.0	2.64
Tail: 9,572-17,528'	935	7,956	Class "H" +0.5% Halad-344 + 0.25% CFR-3 + 0.5% Econolite	11.41	12.0	2.03
Stage 2						
Lead: 3,200-5,000'	299	1800	Tuned Light + 0.125 pps Poly-E-Flake	14.87	11.0	2.64

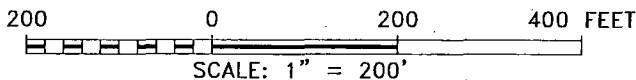
Dr tool @ 5000'

cc: Charles Warne

SECTION 17, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



MALAGA, NM IS ±12 MILES TO THE NORTHWEST OF LOCATION.



Directions to Location:

FROM THE JUNCTION OF OF BUCK JACKSON AND TWIN WELLS, GO WEST ON TWIN WELLS FOR 100' TO PIPELINE ROAD, GO WESTERLY ON PIPELINE ROAD FOR 3.5 MILS TURNING SOUTH ON LEASE ROAD 0.6 MILES TO PROPOSED LEASE ROAD.



P.O. Box 1785 (575) 393-7316 -- Office
1120 N. West County Rd. (575) 392-2206 -- Fax
Hobbs, New Mexico 88241 basin-surveys.com

BOPCO, L.P.

REF: POKER LAKE UNIT CVX JV PC 021H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV PC 021H LOCATED 330' FROM

THE SOUTH LINE AND 675' FROM THE EAST LINE OF

SECTION 17, TOWNSHIP 25 SOUTH, RANGE 30 EAST,

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

W.O. Number: 29388

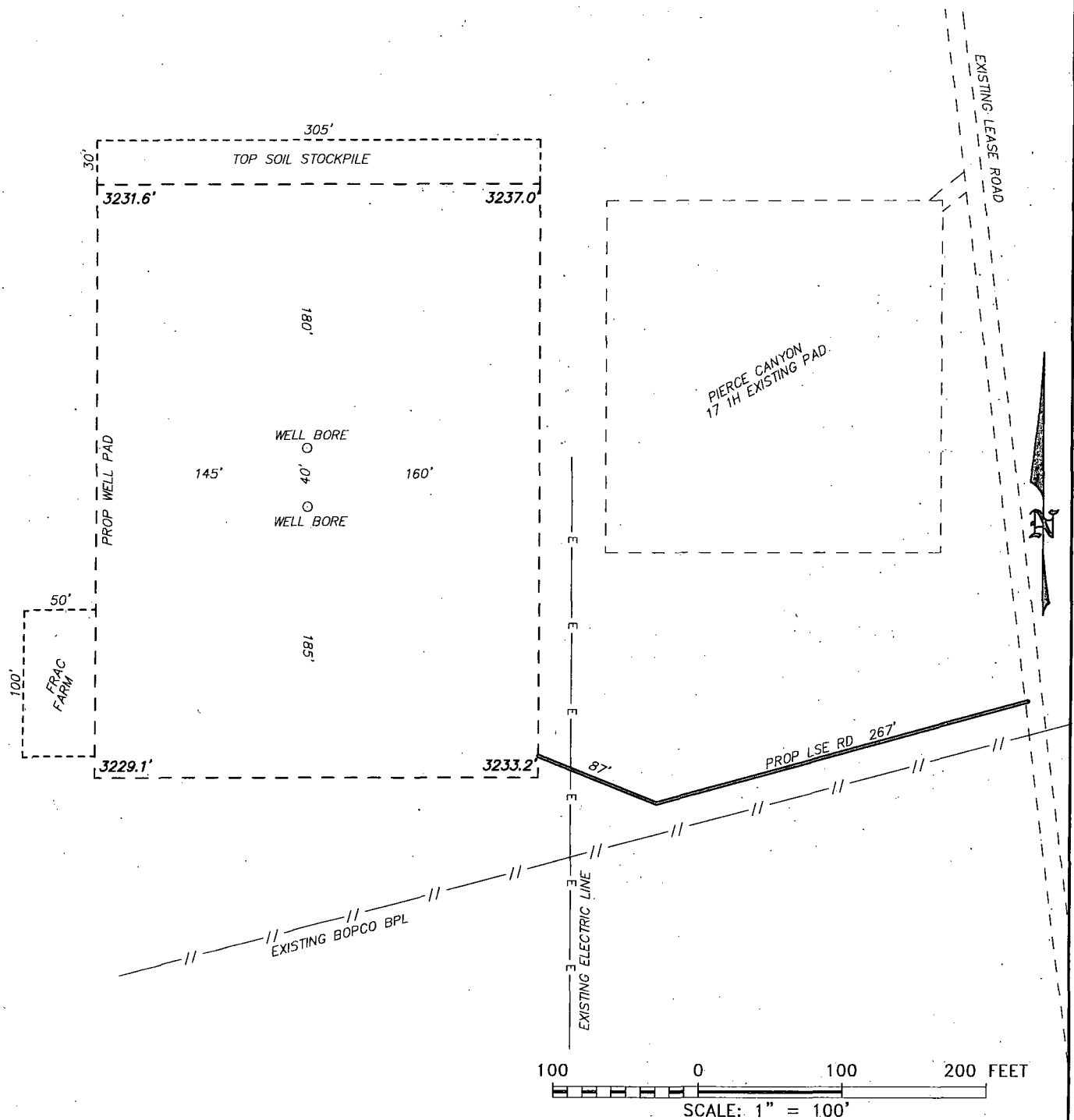
Drawn By: J. SMALL

Date: 09-17-2013

Survey Date: 09-17-2013

Sheet 1 of 1 Sheets

SECTION 17, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



BOPCO, L.P.

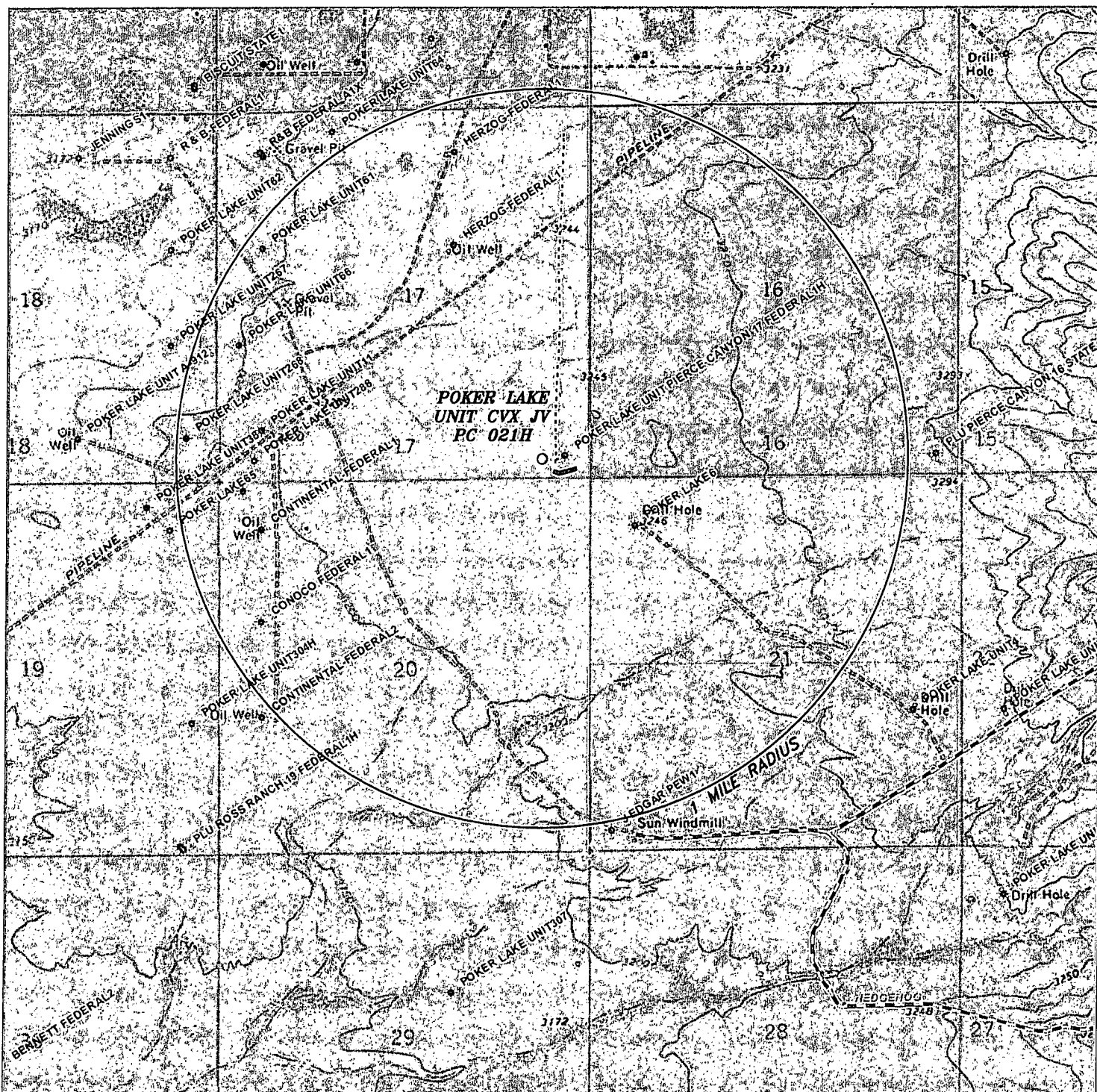
REF: POKER LAKE UNIT CVX JV PC 021H / WELL PAD TOPO

THE POKER LAKE UNIT CVX JV PC 021H LOCATED 330' FROM
THE SOUTH LINE AND 675' FROM THE EAST LINE OF
SECTION 17, TOWNSHIP 25 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**basin
surveys**

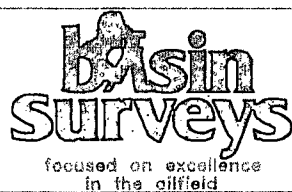
P.O. Box 1786 (575) 393-7316 -- Office
1120 N. West County Rd. (575) 392-2206 -- Fax
in the oilfield Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 29388 Drawn By: J. SMALL Date: 09-24-2013 Survey Date: 09-17-2013 Sheet 1 of 1 Sheets



POKER LAKE UNIT CVX JV PC 021H

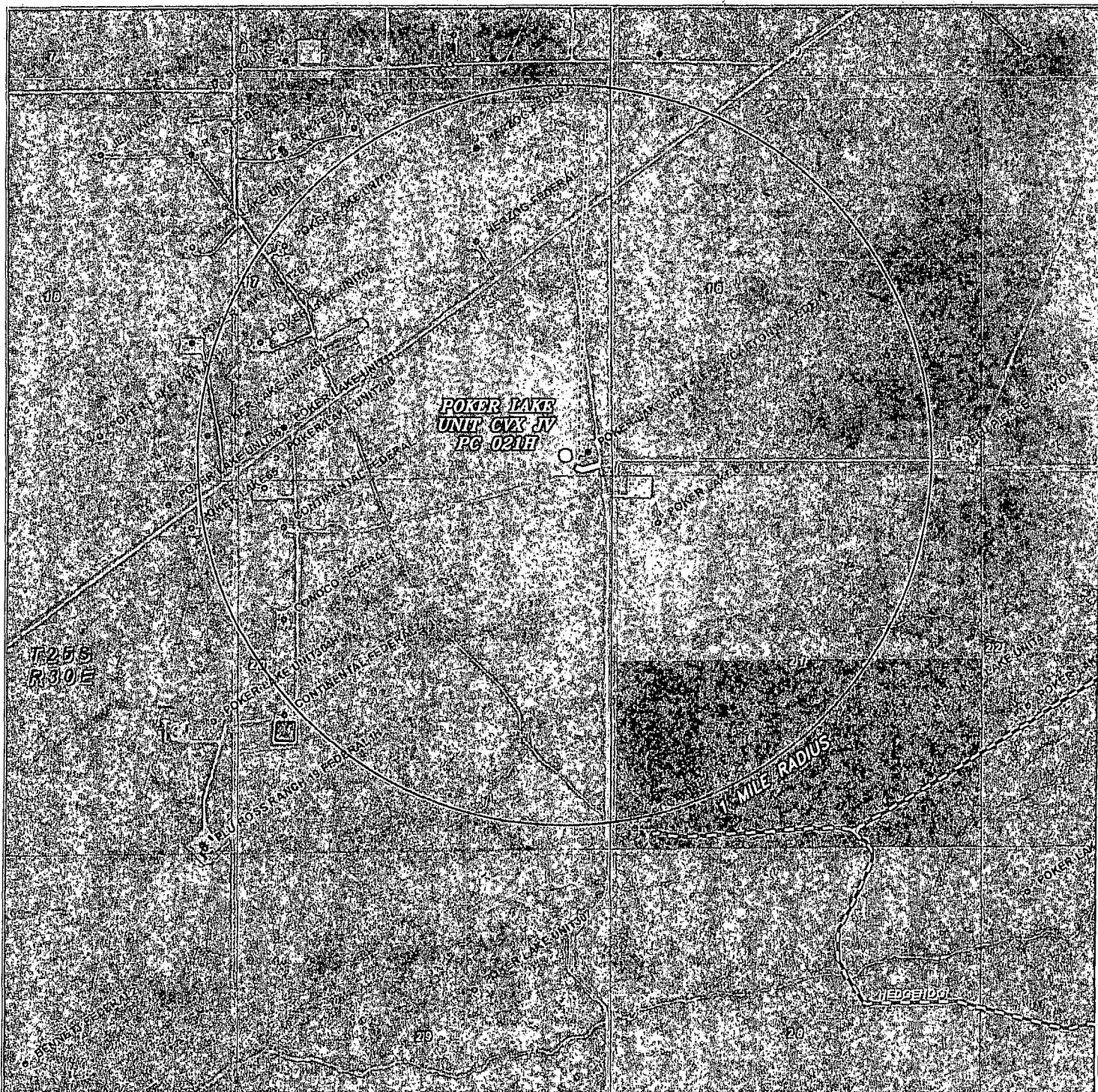
Located 330' FSL and 675' FEL
 Section 17, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.



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

0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number: JMS 29388				
Survey Date: 09-17-2013				
YELLOW TINT - USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - FEE LAND				

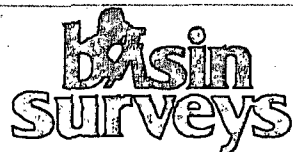
BOPCO, L.P.



POKER LAKE UNIT CVX JV PC 021H

Located 330' FSL and 675' FEL

Section 17, Township 25 South, Range 30 East,
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basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

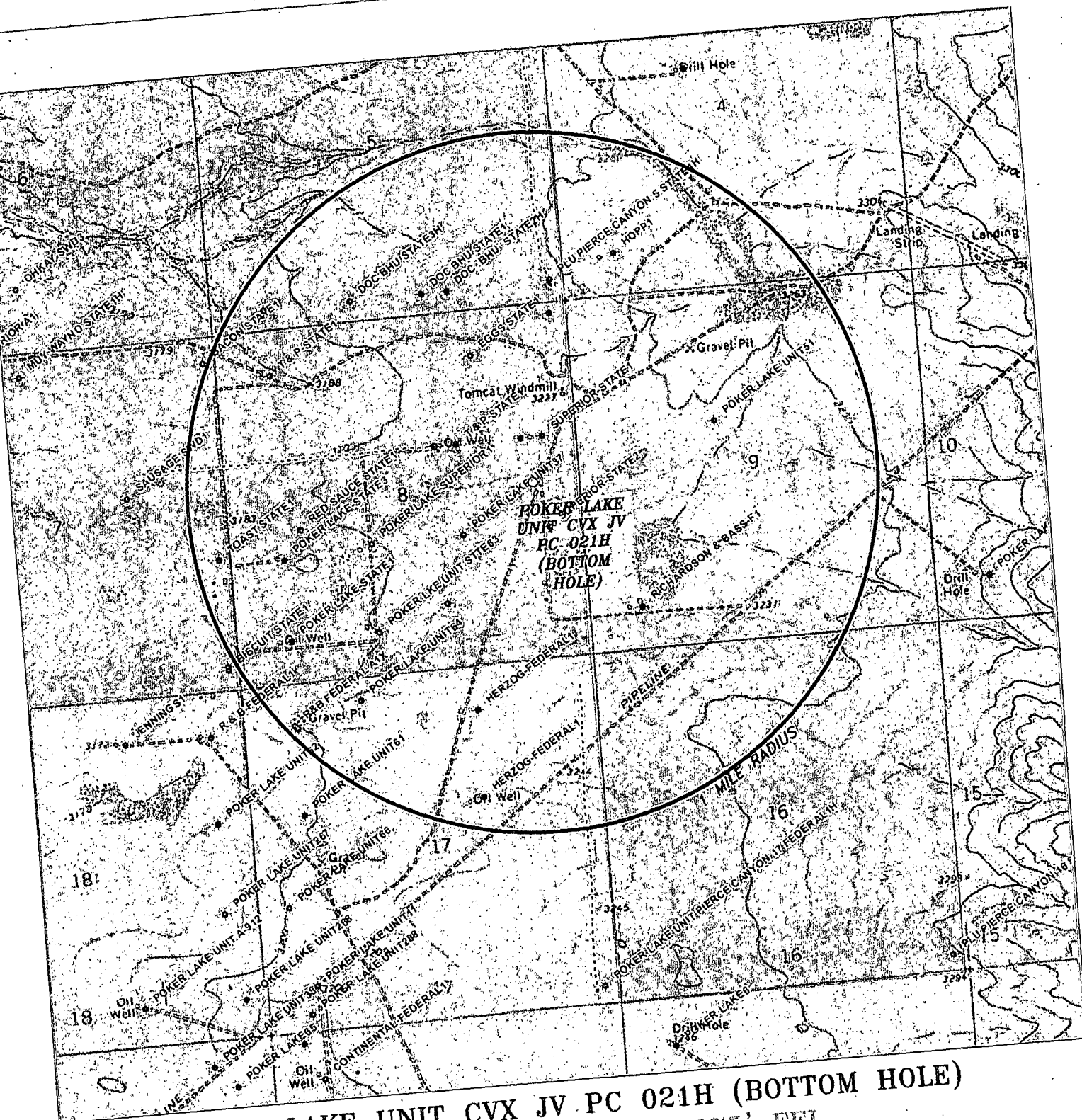
W.O. Number: JMS 29388

Survey Date: 09-17-2013

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



BOPCO, L.P.



POKER LAKE UNIT CVX JV PC 021H (BOTTOM HOLE)
 Located 2635' FSL and 675' FEL
 Section 8, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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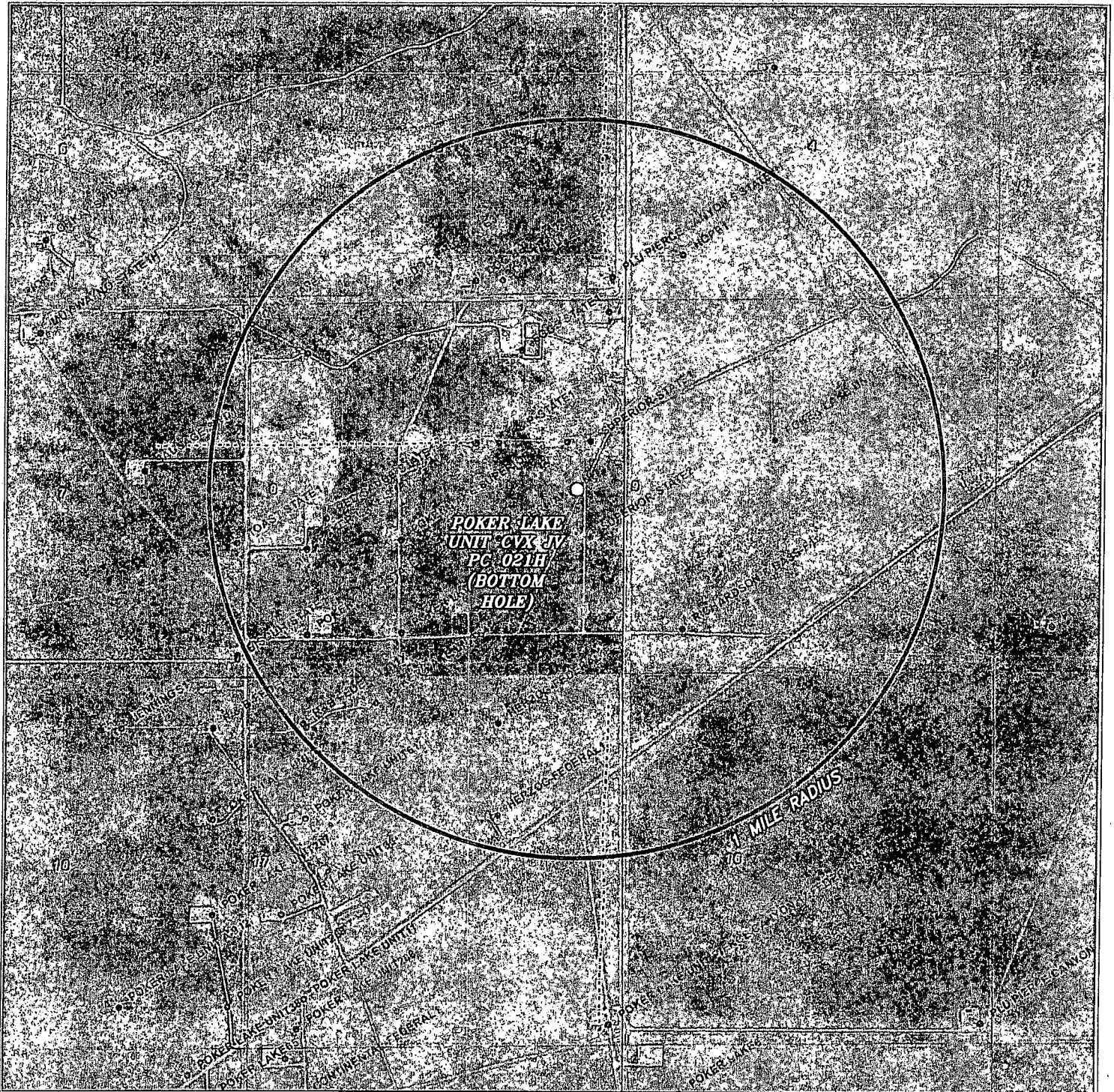
P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basin-surveys.com

0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

W.O. Number: JMS 29388
 Survey Date: 09-17-2013

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

BOPCO, L.P.



POKER LAKE UNIT CVX JV PC 021H (BOTTOM HOLE)

Located 2635' FSL and 675' FEL
 Section 8, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: JMS 29388

Survey Date: 09-17-2013

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

BOPCO, L.P.

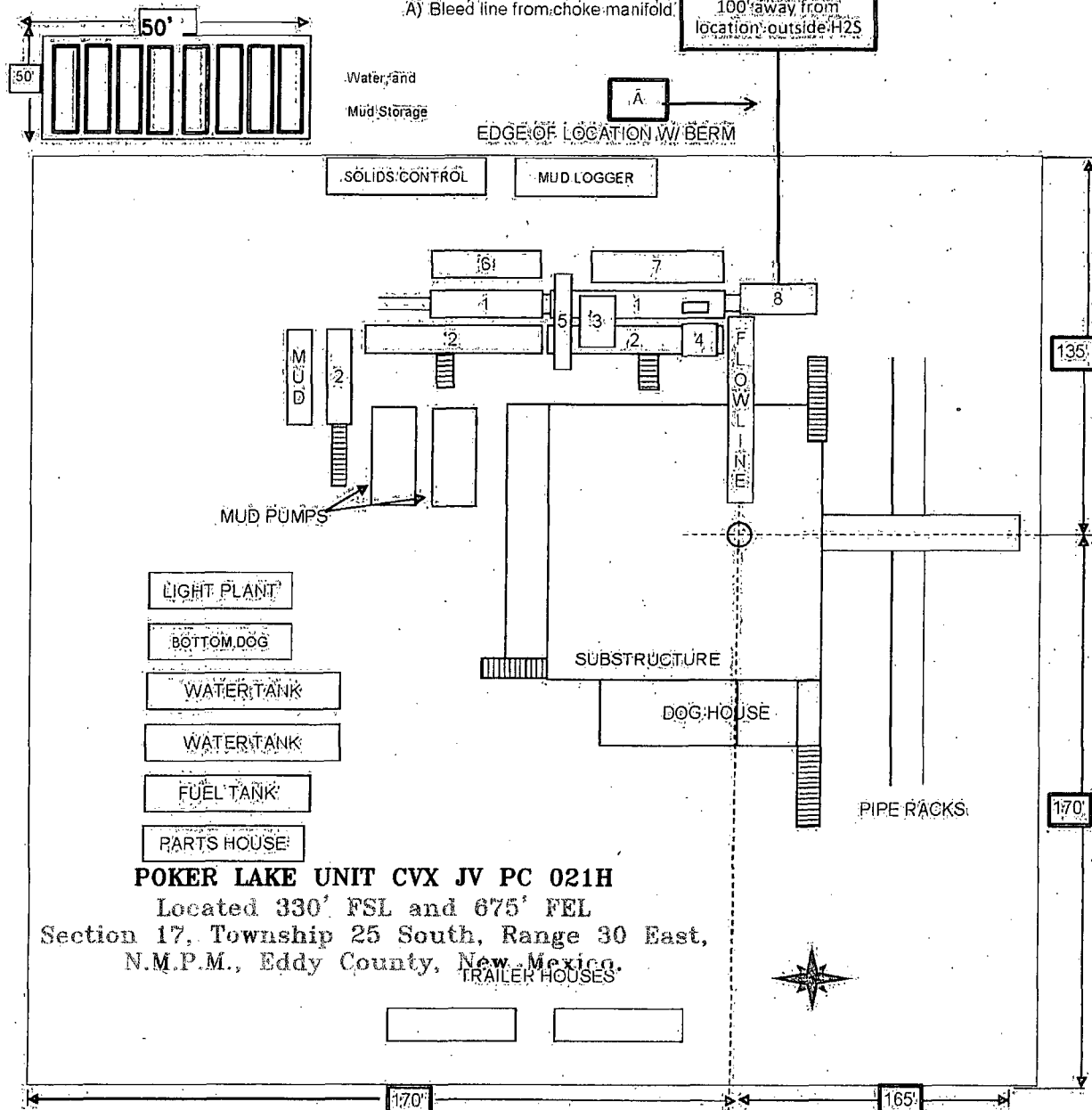


Exhibit "D"

RIG LAYOUT SCHEMATIC INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

Solids Control Equipment Legend

- | | |
|-----------------------------------|--------------------|
| 1) Roll Off Bin | 5) Centrifuge |
| 2) Steel Tank | 6) Dewatering Unit |
| 3) Mud Cleaner | 7) Catch Tank |
| 4) Shaker | 8) Choke Manifold |
| A) Bleed line from choke manifold | |



POKER LAKE UNIT CVX JV PC 021H
 Located 330' FSL and 675' FEL
 Section 17, Township 25 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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SCALE: NONE

W.O. Number: JMS 29388

Survey Date: 09-17-2013

BOPCO, L.P.





WTD - West Texas Division

BOPCO, L.P.

Location: Eddy County, NM

Slot: PC No.21H

Field: Poker Lake Unit

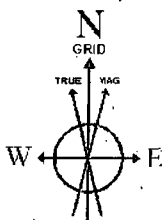
Well: PC No.21H

Facility: PLU CVX JV Pad (PC 21, RR 10)

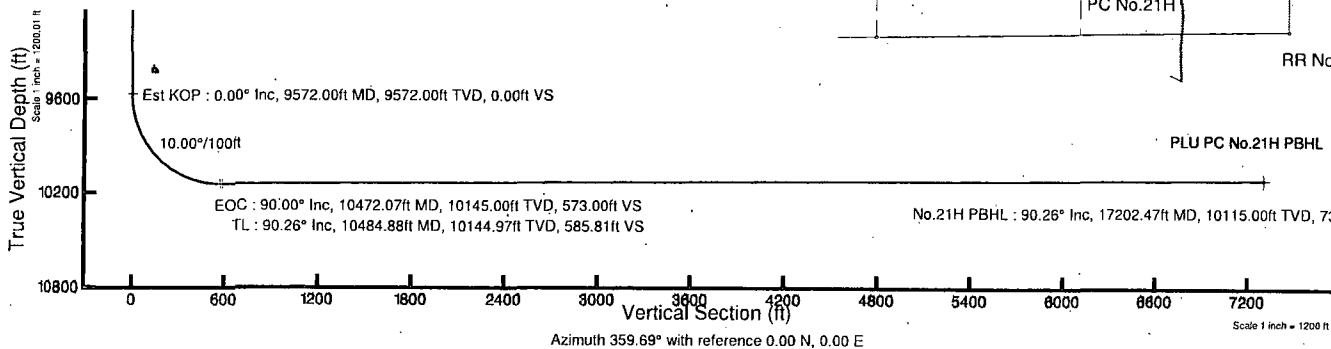
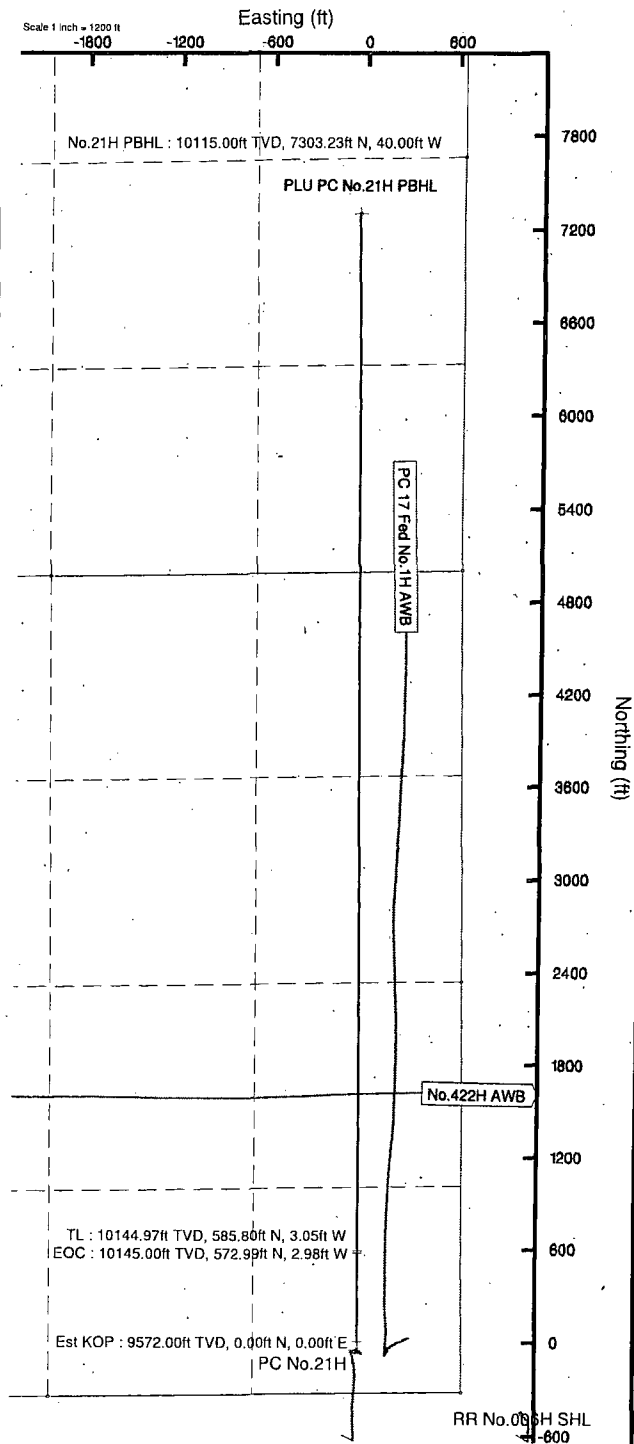
Wellbore: PC No.21H PWB

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	22.00	0.000	359.702	22.00	0.00	0.00	0.00	0.00
Est KOP	9572.00	0.000	359.702	9572.00	0.00	0.00	0.00	0.00
EOC	10472.07	90.000	359.702	10145.00	572.99	-2.98	10.00	573.00
TL	10484.88	90.256	359.685	10144.97	585.80	-3.05	2.00	585.81
No.21H PBHL	17202.47	90.256	359.685	10115.00	7303.23	-40.00	0.00	7303.34

Plot reference wellpath is B-4	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on PC No.21H (KB)	North Reference: Grid north
Measured depths are referenced to Rig on PC No.21H (KB)	Scale: True distance
Rig on PC No.21H (KB) to Mean Sea Level: 3255 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: PC No.21H): 0 feet	Created by: BWGentry on 8/19/2014
Coordinates are in feet referenced to Slot	



IGRF-11 (1900.0 thru 2014.0) Dip: 59.96° Field: 48222.2 nT
 Magnetic North is 7.36 degrees East of True North (at 6/17/2014)
 Grid North is 0.23 degrees East of True North
 To correct azimuth from True to Grid subtract 0.23 degrees
 To correct azimuth from Magnetic to Grid add 7.13 degrees





Planned Wellpath Report

B-4

Page 1 of 6

BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX JV Pad (PC 21, RR 10)		

REPORT SETUP INFORMATION

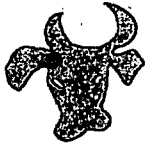
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	BWGentry
Scale	0.99993	Report Generated	8/19/2014 at 10:56:29 AM
Convergence at slot	0.23° East	Database/Source file	WellArchitectDB/PC_No.21H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W
Facility Reference Pt			635242.50	409016.70	32°07'25.499"N	103°53'47.306"W
Field Reference Pt			675156.40	424489.10	32°09'56.776"N	103°46'02.231"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on PC No.21H (KB) to Facility Vertical Datum	3255.00ft
Horizontal Reference Pt	Slot	Rig on PC No.21H (KB) to Mean Sea Level	3255.00ft
Vertical Reference Pt	Rig on PC No.21H (KB)	Rig on PC No.21H (KB) to Mud Line at Slot (PC No.21H)	3255.00ft
MD Reference Pt	Rig on PC No.21H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.69°



Planned Wellpath Report

B-4

Page 2 of 6

BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX-JV Pad (PC 21, RR 10)		

WELLPATH DATA (187 stations) † = interpolated/extrapolated station

MD (ft)	Inclination [°]	Azimuth [°]	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	359.702	0.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
22.00	0.000	359.702	22.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Tie On
122.00†	0.000	359.702	122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
222.00†	0.000	359.702	222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
322.00†	0.000	359.702	322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
422.00†	0.000	359.702	422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
522.00†	0.000	359.702	522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
622.00†	0.000	359.702	622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
722.00†	0.000	359.702	722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
822.00†	0.000	359.702	822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
858.00†	0.000	359.702	858.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Rustler
922.00†	0.000	359.702	922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1022.00†	0.000	359.702	1022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1122.00†	0.000	359.702	1122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1189.00†	0.000	359.702	1189.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Salado
1222.00†	0.000	359.702	1222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1322.00†	0.000	359.702	1322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1422.00†	0.000	359.702	1422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1522.00†	0.000	359.702	1522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1622.00†	0.000	359.702	1622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1722.00†	0.000	359.702	1722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1822.00†	0.000	359.702	1822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
1922.00†	0.000	359.702	1922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2022.00†	0.000	359.702	2022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2122.00†	0.000	359.702	2122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2222.00†	0.000	359.702	2222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2322.00†	0.000	359.702	2322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2422.00†	0.000	359.702	2422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2522.00†	0.000	359.702	2522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2622.00†	0.000	359.702	2622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2722.00†	0.000	359.702	2722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2822.00†	0.000	359.702	2822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
2922.00†	0.000	359.702	2922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3022.00†	0.000	359.702	3022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3122.00†	0.000	359.702	3122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3222.00†	0.000	359.702	3222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3322.00†	0.000	359.702	3322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3422.00†	0.000	359.702	3422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3522.00†	0.000	359.702	3522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3622.00†	0.000	359.702	3622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3722.00†	0.000	359.702	3722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3743.00†	0.000	359.702	3743.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Lamar
3822.00†	0.000	359.702	3822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
3922.00†	0.000	359.702	3922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4022.00†	0.000	359.702	4022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	



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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX JV Pad (PC 21, RR 10)		

WELLPATH DATA (187 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4122.00†	0.000	359.702	4122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4222.00†	0.000	359.702	4222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4322.00†	0.000	359.702	4322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4422.00†	0.000	359.702	4422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4522.00†	0.000	359.702	4522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4622.00†	0.000	359.702	4622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4722.00†	0.000	359.702	4722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4822.00†	0.000	359.702	4822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
4922.00†	0.000	359.702	4922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5022.00†	0.000	359.702	5022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5122.00†	0.000	359.702	5122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5222.00†	0.000	359.702	5222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5322.00†	0.000	359.702	5322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5422.00†	0.000	359.702	5422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5522.00†	0.000	359.702	5522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5622.00†	0.000	359.702	5622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5722.00†	0.000	359.702	5722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5822.00†	0.000	359.702	5822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
5859.00†	0.000	359.702	5859.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Brushy Canyon
5922.00†	0.000	359.702	5922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6022.00†	0.000	359.702	6022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6122.00†	0.000	359.702	6122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6222.00†	0.000	359.702	6222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6322.00†	0.000	359.702	6322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6422.00†	0.000	359.702	6422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6522.00†	0.000	359.702	6522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6622.00†	0.000	359.702	6622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6722.00†	0.000	359.702	6722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6822.00†	0.000	359.702	6822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
6922.00†	0.000	359.702	6922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7022.00†	0.000	359.702	7022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7122.00†	0.000	359.702	7122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7222.00†	0.000	359.702	7222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7322.00†	0.000	359.702	7322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7422.00†	0.000	359.702	7422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7522.00†	0.000	359.702	7522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7577.00†	0.000	359.702	7577.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Bone Spring
7622.00†	0.000	359.702	7622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7722.00†	0.000	359.702	7722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7822.00†	0.000	359.702	7822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
7922.00†	0.000	359.702	7922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8022.00†	0.000	359.702	8022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8114.00†	0.000	359.702	8114.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Lower Avalon
8122.00†	0.000	359.702	8122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8222.00†	0.000	359.702	8222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	



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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION			
Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX JV Pad (PC 21, RR 10)		

WELLPATH DATA (187 stations) interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8322.00+	0.000	359.702	8322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8422.00+	0.000	359.702	8422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8509.00+	0.000	359.702	8509.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	1st Bone Spring Sand
8522.00+	0.000	359.702	8522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8622.00+	0.000	359.702	8622.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8663.00+	0.000	359.702	8663.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	1st Bone Spring Shale
8722.00+	0.000	359.702	8722.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8822.00+	0.000	359.702	8822.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
8922.00+	0.000	359.702	8922.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9022.00+	0.000	359.702	9022.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9122.00+	0.000	359.702	9122.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9222.00+	0.000	359.702	9222.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9322.00+	0.000	359.702	9322.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9382.00+	0.000	359.702	9382.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	2nd Bone Spring Sand
9422.00+	0.000	359.702	9422.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9522.00+	0.000	359.702	9522.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	
9572.00+	0.000	359.702	9572.00	0.00	0.00	0.00	635242.50	409016.70	32°07'25.499"N	103°53'47.306"W	0.00	Est KOP
9622.00+	5.000	359.702	9621.94	2.18	2.18	-0.01	635242.49	409018.88	32°07'25.520"N	103°53'47.306"W	10.00	
9722.00+	14.999	359.702	9720.29	19.52	19.52	-0.10	635242.40	409036.22	32°07'25.692"N	103°53'47.306"W	10.00	
9822.00+	24.998	359.702	9814.14	53.68	53.68	-0.28	635242.22	409070.37	32°07'26.030"N	103°53'47.307"W	10.00	
9922.00+	34.997	359.702	9900.64	103.61	103.61	-0.54	635241.96	409120.30	32°07'26.524"N	103°53'47.307"W	10.00	
10022.00+	44.997	359.702	9977.15	167.80	167.80	-0.87	635241.63	409184.49	32°07'27.159"N	103°53'47.308"W	10.00	
10053.80+	48.176	359.702	9999.00	190.90	190.90	-0.99	635241.51	409207.58	32°07'27.388"N	103°53'47.308"W	10.00	Top of 2nd Bone Spring
10122.00+	54.996	359.702	10041.35	244.31	244.30	-1.27	635241.23	409260.99	32°07'27.916"N	103°53'47.309"W	10.00	
10222.00+	64.995	359.702	10091.29	330.80	330.79	-1.72	635240.78	409347.47	32°07'28.772"N	103°53'47.310"W	10.00	
10322.00+	74.994	359.702	10125.46	424.64	424.64	-2.21	635240.29	409441.31	32°07'29.701"N	103°53'47.311"W	10.00	
10422.00+	84.994	359.702	10142.81	523.00	522.99	-2.72	635239.78	409539.65	32°07'30.674"N	103°53'47.313"W	10.00	
10472.07	90.000	359.702	10145.00	573.00	572.99	-2.98	635239.52	409589.65	32°07'31.169"N	103°53'47.313"W	10.00	EOC
10484.88	90.256	359.685	10144.97	585.81	585.80	-3.05	635239.45	409602.46	32°07'31.296"N	103°53'47.314"W	2.00	TL
10522.00+	90.256	359.685	10144.81	622.93	622.92	-3.25	635239.25	409639.58	32°07'31.663"N	103°53'47.314"W	0.00	
10622.00+	90.256	359.685	10144.36	722.93	722.92	-3.80	635238.70	409739.57	32°07'32.653"N	103°53'47.316"W	0.00	
10722.00+	90.256	359.685	10143.91	822.93	822.92	-4.35	635238.15	409839.56	32°07'33.642"N	103°53'47.318"W	0.00	
10822.00+	90.256	359.685	10143.47	922.93	922.92	-4.90	635237.60	409939.55	32°07'34.632"N	103°53'47.319"W	0.00	
10922.00+	90.256	359.685	10143.02	1022.93	1022.91	-5.45	635237.05	410039.54	32°07'35.621"N	103°53'47.321"W	0.00	
11022.00+	90.256	359.685	10142.57	1122.93	1122.91	-6.00	635236.50	410139.53	32°07'36.611"N	103°53'47.323"W	0.00	
11122.00+	90.256	359.685	10142.13	1222.93	1222.91	-6.55	635235.95	410239.52	32°07'37.600"N	103°53'47.324"W	0.00	
11222.00+	90.256	359.685	10141.68	1322.93	1322.91	-7.10	635235.40	410339.51	32°07'38.590"N	103°53'47.326"W	0.00	
11322.00+	90.256	359.685	10141.24	1422.93	1422.90	-7.65	635234.85	410439.50	32°07'39.580"N	103°53'47.328"W	0.00	
11422.00+	90.256	359.685	10140.79	1522.92	1522.90	-8.20	635234.30	410539.49	32°07'40.569"N	103°53'47.329"W	0.00	
11522.00+	90.256	359.685	10140.34	1622.92	1622.90	-8.75	635233.75	410639.48	32°07'41.559"N	103°53'47.331"W	0.00	
11622.00+	90.256	359.685	10139.90	1722.92	1722.90	-9.30	635233.20	410739.47	32°07'42.548"N	103°53'47.333"W	0.00	
11722.00+	90.256	359.685	10139.45	1822.92	1822.89	-9.85	635232.65	410839.46	32°07'43.538"N	103°53'47.334"W	0.00	
11822.00+	90.256	359.685	10139.01	1922.92	1922.89	-10.40	635232.10	410939.45	32°07'44.527"N	103°53'47.336"W	0.00	
11922.00+	90.256	359.685	10138.56	2022.92	2022.89	-10.95	635231.55	411039.44	32°07'45.517"N	103°53'47.338"W	0.00	
12022.00+	90.256	359.685	10138.11	2122.92	2122.89	-11.50	635231.00	411139.43	32°07'46.506"N	103°53'47.339"W	0.00	



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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION

Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX JV Pad (PC 21, RR 10)		

WELLPATH DATA (187 stations) - Interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12122.00+	90.256	359.685	10137.67	2222.92	2222.88	-12.05	635230.45	411239.42	32°07'47.496"N	103°53'47.341"W	0.00	
12222.00+	90.256	359.685	10137.22	2322.92	2322.88	-12.60	635229.90	411339.42	32°07'48.486"N	103°53'47.343"W	0.00	
12322.00+	90.256	359.685	10136.77	2422.92	2422.88	-13.15	635229.35	411439.41	32°07'49.475"N	103°53'47.345"W	0.00	
12422.00+	90.256	359.685	10136.33	2522.91	2522.88	-13.71	635228.80	411539.40	32°07'50.465"N	103°53'47.346"W	0.00	
12522.00+	90.256	359.685	10135.88	2622.91	2622.87	-14.26	635228.25	411639.39	32°07'51.454"N	103°53'47.348"W	0.00	
12622.00+	90.256	359.685	10135.44	2722.91	2722.87	-14.81	635227.70	411739.38	32°07'52.444"N	103°53'47.350"W	0.00	
12722.00+	90.256	359.685	10134.99	2822.91	2822.87	-15.36	635227.15	411839.37	32°07'53.433"N	103°53'47.351"W	0.00	
12822.00+	90.256	359.685	10134.54	2922.91	2922.87	-15.91	635226.60	411939.36	32°07'54.423"N	103°53'47.353"W	0.00	
12922.00+	90.256	359.685	10134.10	3022.91	3022.86	-16.46	635226.05	412039.35	32°07'55.412"N	103°53'47.355"W	0.00	
13022.00+	90.256	359.685	10133.65	3122.91	3122.86	-17.01	635225.50	412139.34	32°07'56.402"N	103°53'47.356"W	0.00	
13122.00+	90.256	359.685	10133.21	3222.91	3222.86	-17.56	635224.95	412239.33	32°07'57.391"N	103°53'47.358"W	0.00	
13222.00+	90.256	359.685	10132.76	3322.91	3322.86	-18.11	635224.40	412339.32	32°07'58.381"N	103°53'47.360"W	0.00	
13322.00+	90.256	359.685	10132.31	3422.91	3422.85	-18.66	635223.85	412439.31	32°07'59.371"N	103°53'47.361"W	0.00	
13422.00+	90.256	359.685	10131.87	3522.90	3522.85	-19.21	635223.30	412539.30	32°08'00.360"N	103°53'47.363"W	0.00	
13522.00+	90.256	359.685	10131.42	3622.90	3622.85	-19.76	635222.75	412639.29	32°08'01.350"N	103°53'47.365"W	0.00	
13622.00+	90.256	359.685	10130.97	3722.90	3722.85	-20.31	635222.20	412739.28	32°08'02.339"N	103°53'47.366"W	0.00	
13722.00+	90.256	359.685	10130.53	3822.90	3822.84	-20.86	635221.65	412839.27	32°08'03.329"N	103°53'47.368"W	0.00	
13822.00+	90.256	359.685	10130.08	3922.90	3922.84	-21.41	635221.09	412939.26	32°08'04.318"N	103°53'47.370"W	0.00	
13922.00+	90.256	359.685	10129.64	4022.90	4022.84	-21.96	635220.54	413039.25	32°08'05.308"N	103°53'47.371"W	0.00	
14022.00+	90.256	359.685	10129.19	4122.90	4122.84	-22.51	635219.99	413139.24	32°08'06.297"N	103°53'47.373"W	0.00	
14122.00+	90.256	359.685	10128.74	4222.90	4222.83	-23.06	635219.44	413239.23	32°08'07.287"N	103°53'47.375"W	0.00	
14222.00+	90.256	359.685	10128.30	4322.90	4322.83	-23.61	635218.89	413339.22	32°08'08.277"N	103°53'47.376"W	0.00	
14322.00+	90.256	359.685	10127.85	4422.90	4422.83	-24.16	635218.34	413439.21	32°08'09.266"N	103°53'47.378"W	0.00	
14422.00+	90.256	359.685	10127.41	4522.89	4522.83	-24.71	635217.79	413539.20	32°08'10.256"N	103°53'47.380"W	0.00	
14522.00+	90.256	359.685	10126.96	4622.89	4622.82	-25.26	635217.24	413639.19	32°08'11.245"N	103°53'47.382"W	0.00	
14622.00+	90.256	359.685	10126.51	4722.89	4722.82	-25.81	635216.69	413739.18	32°08'12.235"N	103°53'47.383"W	0.00	
14722.00+	90.256	359.685	10126.07	4822.89	4822.82	-26.36	635216.14	413839.17	32°08'13.224"N	103°53'47.385"W	0.00	
14822.00+	90.256	359.685	10125.62	4922.89	4922.82	-26.91	635215.59	413939.16	32°08'14.214"N	103°53'47.387"W	0.00	
14922.00+	90.256	359.685	10125.17	5022.89	5022.81	-27.46	635215.04	414039.15	32°08'15.203"N	103°53'47.388"W	0.00	
15022.00+	90.256	359.685	10124.73	5122.89	5122.81	-28.01	635214.49	414139.14	32°08'16.193"N	103°53'47.390"W	0.00	
15122.00+	90.256	359.685	10124.28	5222.89	5222.81	-28.56	635213.94	414239.13	32°08'17.182"N	103°53'47.392"W	0.00	
15222.00+	90.256	359.685	10123.84	5322.89	5322.81	-29.11	635213.39	414339.12	32°08'18.172"N	103°53'47.393"W	0.00	
15322.00+	90.256	359.685	10123.39	5422.89	5422.80	-29.66	635212.84	414439.11	32°08'19.162"N	103°53'47.395"W	0.00	
15422.00+	90.256	359.685	10122.94	5522.88	5522.80	-30.21	635212.29	414539.10	32°08'20.151"N	103°53'47.397"W	0.00	
15522.00+	90.256	359.685	10122.50	5622.88	5622.80	-30.76	635211.74	414639.09	32°08'21.141"N	103°53'47.398"W	0.00	
15622.00+	90.256	359.685	10122.05	5722.88	5722.80	-31.31	635211.19	414739.09	32°08'22.130"N	103°53'47.400"W	0.00	
15722.00+	90.256	359.685	10121.61	5822.88	5822.79	-31.86	635210.64	414839.08	32°08'23.120"N	103°53'47.402"W	0.00	
15822.00+	90.256	359.685	10121.16	5922.88	5922.79	-32.41	635210.09	414939.07	32°08'24.109"N	103°53'47.403"W	0.00	
15922.00+	90.256	359.685	10120.71	6022.88	6022.79	-32.96	635209.54	415039.06	32°08'25.099"N	103°53'47.405"W	0.00	
16022.00+	90.256	359.685	10120.27	6122.88	6122.79	-33.51	635208.99	415139.05	32°08'26.088"N	103°53'47.407"W	0.00	
16122.00+	90.256	359.685	10119.82	6222.88	6222.78	-34.06	635208.44	415239.04	32°08'27.078"N	103°53'47.408"W	0.00	
16222.00+	90.256	359.685	10119.37	6322.88	6322.78	-34.61	635207.89	415339.03	32°08'28.067"N	103°53'47.410"W	0.00	
16322.00+	90.256	359.685	10118.93	6422.88	6422.78	-35.16	635207.34	415439.02	32°08'29.057"N	103°53'47.412"W	0.00	
16422.00+	90.256	359.685	10118.48	6522.87	6522.78	-35.71	635206.79	415539.01	32°08'30.047"N	103°53'47.413"W	0.00	
16522.00+	90.256	359.685	10118.04	6622.87	6622.77	-36.26	635206.24	415639.00	32°08'31.036"N	103°53'47.415"W	0.00	



Planned Wellpath Report

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BOPCO, L.P.

REFERENCE WELLPATH IDENTIFICATION			
Operator	WTD - West Texas Division	Slot	PC No.21H
Area	Eddy County, NM	Well	PC No.21H
Field	Poker Lake Unit	Wellbore	PC No.21H PWB
Facility	PLU CVX JV Pad (PC 21, RR 10)		

WELLPATH DATA (187 stations) 1 = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16622.00	90.256	359.685	10117.59	6722.87	6722.77	-36.81	635205.69	415738.99	32°08'32.026"N	103°53'47.417"W	0.00	
16722.00	90.256	359.685	10117.14	6822.87	6822.77	-37.36	635205.14	415838.98	32°08'33.015"N	103°53'47.418"W	0.00	
16822.00	90.256	359.685	10116.70	6922.87	6922.77	-37.91	635204.59	415938.97	32°08'34.005"N	103°53'47.420"W	0.00	
16922.00	90.256	359.685	10116.25	7022.87	7022.76	-38.46	635204.04	416038.96	32°08'34.994"N	103°53'47.422"W	0.00	
17022.00	90.256	359.685	10115.81	7122.87	7122.76	-39.01	635203.49	416138.95	32°08'35.984"N	103°53'47.424"W	0.00	
17122.00	90.256	359.685	10115.36	7222.87	7222.76	-39.56	635202.94	416238.94	32°08'36.973"N	103°53'47.425"W	0.00	
17202.47	90.256	359.685	10115.00	7303.34	7303.23	-40.00	635202.50	416319.40	32°08'37.770"N	103°53'47.427"W	0.00	No.21H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) PLU PC No.21H PBHL	17202.47	10115.00	7303.23	-40.00	635202.50	416319.40	32°08'37.770"N	103°53'47.427"W	point

SURVEY PROGRAM - Ref Wellbore: PC No.21H PWB - Ref Wellpath: B-4				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.00	500.00	Generic gyro - northseeking (Standard)		PC No.21H PWB
500.00	17202.47	NaviTrak (Standard)		PC No.21H PWB