

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD 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.*5. Lease Serial No.
NMLC064894A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
891000303X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
POKER LAKE UNIT 422H2. Name of Operator
BOPCO LPContact: COURTNEY J LOCKHART
E-Mail: cjlockhart@basspet.com9. API Well No.
30-015-41056-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-683-227710. Field and Pool, or Exploratory
CORRAL CANYON

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

Sec 18 T25S R30E NESE 1980FSL 660FEL

11. County or Parish, and State

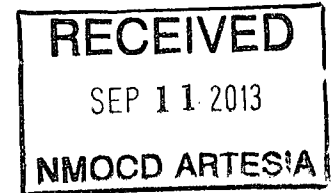
EDDY COUNTY, NM

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	
	☐ 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. respectfully requests to change the bottom hole location of the Poker Lake Unit #422 to 1900' FLS & 2500' FEL of Section 16-T25S-R30E. This move is being requested for wellbore optimization. The updated sections of the eight point drilling program, the directional drilling plan and the updated plats are attached.

Accepted for record
NMOC10/9/2013
9/11/2013provide NMOC w/signed
CIO2

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #219345 verified by the BLM Well Information System

For BOPCO LP, sent to the Carlsbad

Committed to AFMSS for processing by CHRISTOPHER WALLS on 09/09/2013 (13CRW0140SE)

Name (Printed/Typed) BRIAN BRAUN

Title DRILLING ENGINEER

Signature

(Electronic Submission)

Date 09/06/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 09/09/2013

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 Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

DISTRICT I

1825 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised July 18, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 306402	Pool Code 96209	Pool Name CORRAL CANYON (NE DELAWARE)
Property Code	Property Name POKER LAKE UNIT	Well Number 422H
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3188'

Surface Location

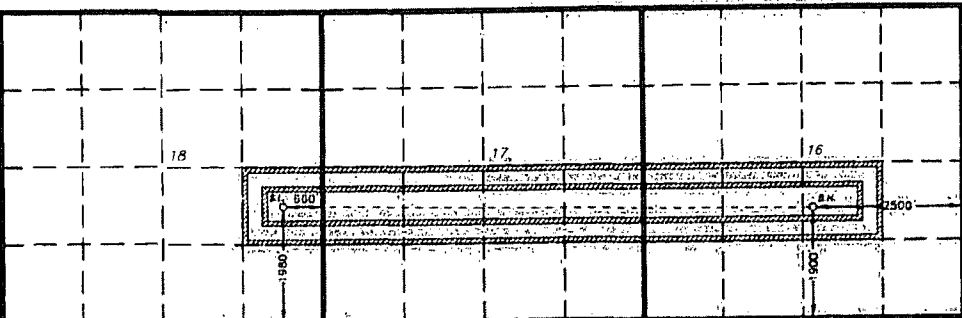
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	25 S	30 E		1980	SOUTH	660	EAST	EDDY

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
J	16	25 S	30 E		1900	SOUTH	2500	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ Email Address _____
SURFACE LOCATION Lat - N 32°07'41.37" Long - W 103°54'49.43" NMSPCE- N 410598.971 E 629893.501 (NAD-27)		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. NOVEMBER 18, 2012 Date Surveyed _____ Signature _____ Professional Surveyor Certificate No. _____ Basin Survey S 27194

EIGHT POINT DRILLING PROGRAM **BOPCO, L.P.**

NAME OF WELL: Poker Lake Unit 422H

LEGAL DESCRIPTION - SURFACE: 1980' FSL, 660' FEL, Section 18, T25S, R30E, Eddy County, NM.
BHL: 1900' FSL, 2500' FEL, Section 16, T25S, R30E, Eddy County, New Mexico.

POINT 1: ESTIMATED FORMATION TOPS (See No. 2 Below)

POINT 2: WATER, OIL, GAS AND/OR MINERAL BEARING FORMATIONS

Anticipated Formation Tops: KB 3210' (estimated)
GL 3188'

Formation Description	Est from KB (TVD)	Est (MD)	SUB-SEA TOP	BEARING
T/Fresh Water	401'	401'	+ 2,809'	Fresh Water
T/Rustler	700'	700'	+ 2,510'	Barren
T/Salado	910'	910'	+ 2,300'	Barren
B/Salt	3,402'	3,402'	- 192'	Oil/Gas
T/Lamar	3,605'	3,605'	- 395'	Oil/Gas
T/Ramsey	3,627'	3,627'	- 417'	Oil/Gas
Cherry Canyon	4,472'	4,472'	- 1,262'	Oil/Gas
Brushy Canyon	5,755'	5,755'	- 2,545'	Oil/Gas
KOP	6,668'	6,668'	- 3,458'	Oil/Gas
LBC "8A" Sand	7,154'	7,325'	- 3,944'	Oil/Gas
EOC	7,309'	7,757'	- 4,099'	Oil/Gas
Target #1	7,309'	7,757'	- 4,099'	Oil/Gas
TD Horizontal Hole	7,477'	15,876'	- 4,267'	Oil/Gas

POINT 3: CASING PROGRAM

TYPE	INTERVAL MD	HOLE SIZE	PURPOSE	INSTALLATION TYPE
20"	0' - 120'	30"	Conductor	Contractor Discretion
13-3/8", 48 ppf, H-40, or 54.5#, J-55 8rd, ST&C*	0' - 900' <i>850</i>	17-1/2"	Surface	New
9-5/8", 40 ppf, N-80, 8rd, LT&C or 9-5/8" 40 ppf, J-55, 8rd, LT&C*	0' - 3,615'	12-1/4"	Intermediate	New
7", 26 ppf, N-80, Buttress or 8rd LTC*	0' - 7,568'	8-3/4"	Production	New

Completion System				
4-1/2", 11.6 ppf, HCP-110 8rd LT&C, BTC	7,518' - 15,876'	6-1/8"	Completion System	New

* Depending on availability.

CASING DESIGN SAFETY FACTORS:

TYPE	TENSION	COLLAPSE	BURST
13-3/8", 48 ppf, H-40, 8rd, ST&C*	8.67	16.4	1.12
13-3/8", 54.5 ppf, J-55, 8rd, STC*	20.23	2.58	1.77
9-5/8", 40 ppf, N-80, 8rd, LT&C*	6.04	1.50	2.85
9-5/8", 40 ppf, J-55, 8rd, LT&C*	5.16	1.23	1.96
7", 26 ppf, N-80, Buttress*	3.70	1.39	1.78
7", 26 ppf, N-80, 8rd, LTC*	3.18	1.34	1.78

Completion System

4-1/2", 11.6 ppf, HCP-110 8rd, LT&C	3.73	2.16	2.56
4-1/2", 11.6 ppf, HCP-110 BTC	4.91	2.25	2.56

* Depending on availability.

BOPCO, L.P. would like to request a variance to use an armored, 3", 5000 psi WP flex hose for the choke line in the drilling of the well if the rig is equip with hose. (See specification for hose that might be used, attached with APD exhibits). This is rig equipment and will help quicken nipple up time thus saving money without a safety problem. The hose itself is rated to 5000 psi, and has 5000 psi flanges on each end. This well is to be drilled to 15,876' MD (7,477' TVD) and max surface pressure should be +/- 1854 psi as prescribed in onshore order #2 shown as max BHP minus 0.22 psi/ft. Thus, 3000 psi BOPE is all that is needed for this well. **Please refer to diagram A, B or C for choke manifold and closed loop system layout. If an armored flex hose is utilized, the company man will have all of the proper certified paper work for that hose available on location.**

POINT 5: MUD PROGRAM

DEPTH		MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0 -900'	FW Spud Mud	8.5 - 9.2	38-70	NC	NC	NC	10.0	9.5 - 10.5
900' - 3,615'	Brine Water	9.8 - 10.2	28-30	NC	NC	NC	9.5 - 10.5	9.5 - 10.5
3,615' - 7,568'	FW/Gel	8.7 - 9.0	28-36	NC	NC	NC	9.5 - 10.0	9.5 - 10.5
7,568'-15,876'	FW/Gel/Starch	8.7 - 9.0	28-36	NC	NC	<100	9.5 - 10.0	9.5 - 10.5

NOTE: May increase vis for logging purposes only.

D) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	PPG	FT ³ /SX
SURFACE: Lead: 0' – 600'	480	600	Class C +2% CACL + 4% Bentonite + 0.25 LB/SK Cello Flake + 3 lb/sk LCM-1	8.69	13.50	1.75
Tail: 600' – 900'	340	300	Class C + 2% CACL + 0.25 LB/SK CF	6.35	14.80	1.35
INTERMEDIATE: Lead: 0' – 3,115'	940	3115	0.25LB/SK Cello Flake + 3 lb/sk LCM-1 EconoCEM HLC + 5% CaCl + 5#/sk Gilsonite	9.32	12.90	1.85
Tail: 3,115' – 3,615'	270	500	HalCem C	6.34	14.80	1.33
Production Stage 1: Lead: 5,000' – 6,668'	150	1668	Tuned Light + 0.75% + CFR-3 + 1.5#/sk CaCl	12.41	10.20	2.76
Tail: 6,668' – 7,568'	110	900	VersaCem-PBSH2 + 0.4% Halad-9	8.76	13.0	1.67
DV Tool @ 5,000' Stage 2: Lead: 3115' – 4,500'	140	1385	EconCem HLC + 1% Econolite + 5% CaCl + 5#/sk Gilsonite	10.71	12.60	2.04
Tail: 4,500' – 5,000'	100	500	HalCem C	6.34	14.80	1.33

Cement excesses will be as follows:

Surface – 100% excess with cement circulated to surface.

1st Intermediate – 50% excess above fluid caliper with cement circulated to surface.

Production – 50% above gauge hole or 35% above electric log caliper with cement circulated 500' up into the 9-5/8" 1st intermediate casing in areas outside the SOPA. Cement will be circulated to surface on areas inside the SOPA.

Cement volumes will be adjusted proportionately for depth changes of the multi stage tool.

E) COMPLETIONS SYSTEM

A 4-1/2" completion system with open hole packers will be run in the producing lateral to a depth of 15,876'. The top of the Completion System will be set at approximately 7,518'. Cement will not be required for this system.

F) DIRECTIONAL DRILLING

BOPCO, L.P. plans to drill out the 9-5/8" intermediate casing with a 8-3/4" bit to a TVD of approximately 6,668' at which point a directional hole will be kicked off and drilled at an azimuth of 89.81 degrees, building angle at 10 deg/100' to 70 degrees at a TVD of 7,206' (MD 7,568'). This angle and azimuth will be maintained for 200' to a measured depth of 7,568' (7,275' TVD). At this depth 7", 26#, N80, Buttress, or 8rd LTC casing will be installed and cemented in two stages (DV Tool @ approximately 5000') with cement circulated 500' inside the 9-5/8" intermediate casing. A 6-1/8" open hole lateral will then be drilled out from 7" casing at an azimuth of 89.81 degrees, inclination of 88.82 degrees to a measured depth of 15,876', TVD 7,477'. At this depth a 4-1/2" Completion System with packers installed for zone isolation will be run into the producing lateral.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout Delaware section. A BHP of 3499 psi (max) or MWE of 9.0 ppg is expected. Lost circulation may exist in the Delaware Section from 4,015'-7,477' TVD.



Weatherford®

Drilling Services

Proposal

BOPCO, L.P.

POKER LAKE UNIT 422H

EDDY CO, NM

WELL FILE: PLAN 3

SEPTEMBER 4, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

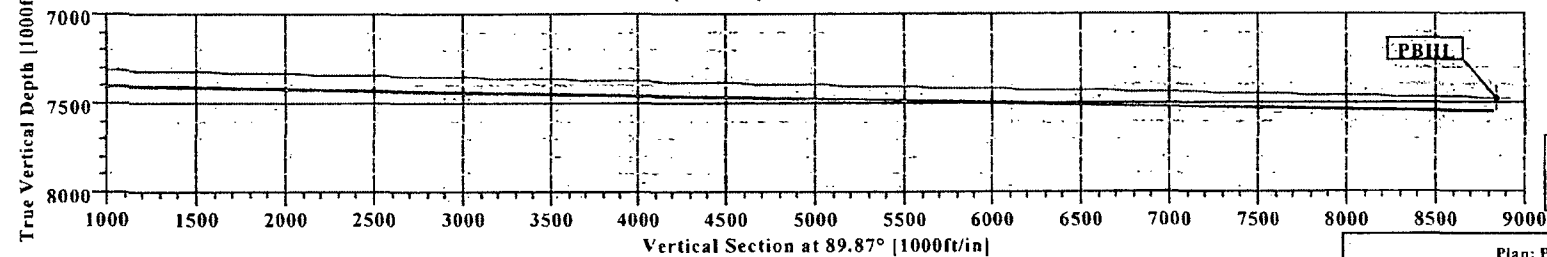
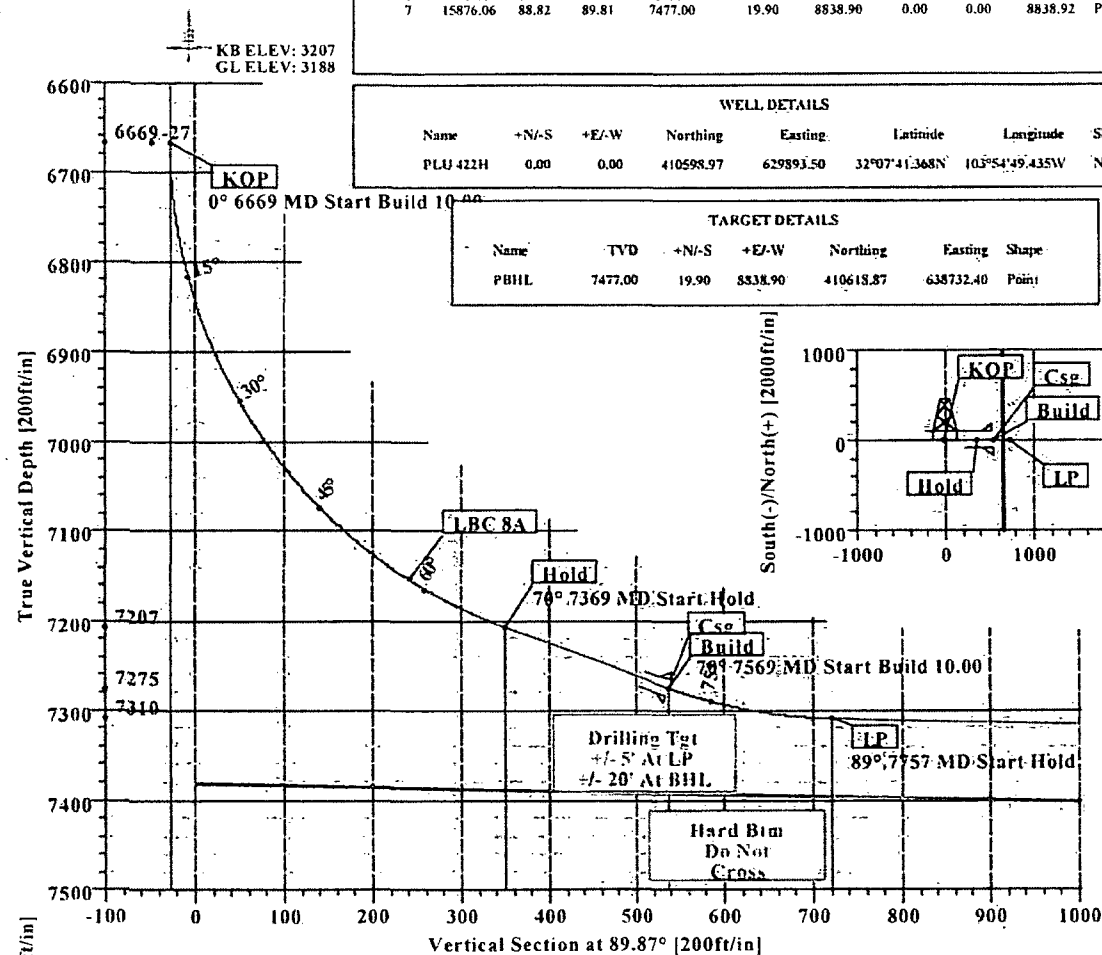
+1.432.561.8895 Fax

www.weatherford.com

Poker Lake Unit 422H
Eddy Co, NM

SITE DETAILS
Poker Lake Unit 422H
 Site Centre Northing: 410598.97
 Easting: 629893.50
 Ground Level: 3188.00
 Positional Uncertainty: 0.00
 Convergence: 0.22

TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL	7477.00	19.90	8338.90	410618.87	638732.40	Point



Weatherford

00 8500 9000

LEGEND

Plan #3

Plan: Plan #3 (PLU 422H/1)

Created By: Russell Joyner Date: 9/4/2013

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 9/4/2013	Time: 17:05:40	Page: 1
Field: Eddy County, NM (Nad:27)	Co-ordinate(NE) Reference: Well: PLU 422H, Grid North		
Site: Poker Lake Unit 422H	Vertical (TVD) Reference: SITE 3207.0		
Well: PLU 422H	Section (VS) Reference: Well (0.00N,0.00E,89.87Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #3	Date Composed: 9/4/2013
Principal: Yes	Version: 1
	Tied-to: User Defined

Site: Poker Lake Unit 422H									
Site Position:		Northing:		410598.97 ft		Latitude:		32 7 41.368 N	
From: Map		Easting:		629893.50 ft		Longitude:		103 54 49.435 W	
Position Uncertainty:		0.00 ft				North Reference:		Grid	
Ground Level:		3188.00 ft				Grid Convergence:		0.22 deg	

Well: PLU 422H		Slot Name:						
Well Position:	+N/-S	0.00 ft	Northing:	410598.97 ft	Latitude:	32	7	41.368 N
	+E/-W	0.00 ft	Easting :	629893.50 ft	Longitude:	103	54	49.435 W
Position Uncertainty:		0.00 ft						

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0.00 ft	
Magnetic Data: 8/30/2013		Above System Datum: Mean Sea Level	
Field Strength: 48326 nT		Declination: 7.47 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 59.98 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	89.87

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
3538.00	0.14	150.33	3537.64	-9.56	-27.37	0.00	0.00	0.00	0.00	
3542.67	0.00	89.81	3542.31	-9.56	-27.37	3.00	-3.00	-3221.36	180.00	
6668.92	0.00	89.81	6668.56	-9.56	-27.37	0.00	0.00	0.00	0.00	
7368.92	70.00	89.81	7206.97	-8.31	349.63	10.00	10.00	0.00	89.81	
7568.92	70.00	89.81	7275.37	-7.69	537.56	0.00	0.00	0.00	0.00	
7757.12	88.82	89.81	7309.80	-7.07	721.73	10.00	10.00	0.00	0.00	
15876.06	88.82	89.81	7477.00	19.90	8838.90	0.00	0.00	0.00	0.00	PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
3538.00	0.14	150.33	3537.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	Last Wft Svy
3542.67	0.00	89.81	3542.31	-9.56	-27.37	-27.39	3.00	410589.41	629866.13	Hold
3600.00	0.00	89.81	3599.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
3700.00	0.00	89.81	3699.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
3800.00	0.00	89.81	3799.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
3900.00	0.00	89.81	3899.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4000.00	0.00	89.81	3999.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4100.00	0.00	89.81	4099.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4200.00	0.00	89.81	4199.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4300.00	0.00	89.81	4299.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4400.00	0.00	89.81	4399.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4500.00	0.00	89.81	4499.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4600.00	0.00	89.81	4599.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4700.00	0.00	89.81	4699.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4800.00	0.00	89.81	4799.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
4900.00	0.00	89.81	4899.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5000.00	0.00	89.81	4999.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5100.00	0.00	89.81	5099.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5200.00	0.00	89.81	5199.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5300.00	0.00	89.81	5299.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P. Date: 9/4/2013 Time: 17:05:40 Page: 2
 Field: Eddy County, NM (Nad:27) Co-ordinate(NE) Reference: Well: PLU 422H, Grid North
 Site: Poker Lake Unit 422H Vertical (TVD) Reference: SITE 3207.0
 Well: PLU 422H Section (VS) Reference: Well (0.00N,0.00E,89.87Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
5400.00	0.00	89.81	5399.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5500.00	0.00	89.81	5499.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5600.00	0.00	89.81	5599.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5700.00	0.00	89.81	5699.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5800.00	0.00	89.81	5799.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
5900.00	0.00	89.81	5899.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6000.00	0.00	89.81	5999.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6100.00	0.00	89.81	6099.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6200.00	0.00	89.81	6199.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6300.00	0.00	89.81	6299.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6400.00	0.00	89.81	6399.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6500.00	0.00	89.81	6499.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6600.00	0.00	89.81	6599.64	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	
6668.92	0.00	89.81	6668.56	-9.56	-27.37	-27.39	0.00	410589.41	629866.13	KOP
6700.00	3.11	89.81	6699.63	-9.56	-26.52	-26.54	10.00	410589.41	629866.98	
6750.00	8.11	89.81	6749.37	-9.54	-21.64	-21.66	10.00	410589.43	629871.86	
6800.00	13.11	89.81	6798.50	-9.51	-12.44	-12.46	10.00	410589.46	629881.06	
6850.00	18.11	89.81	6846.64	-9.47	1.01	0.99	10.00	410589.50	629894.51	
6900.00	23.11	89.81	6893.43	-9.41	18.61	18.58	10.00	410589.56	629912.11	
6950.00	28.11	89.81	6938.50	-9.34	40.21	40.19	10.00	410589.63	629933.71	
7000.00	33.11	89.81	6981.52	-9.25	65.66	65.64	10.00	410589.72	629959.16	
7050.00	38.11	89.81	7022.16	-9.16	94.76	94.74	10.00	410589.81	629988.26	
7100.00	43.11	89.81	7060.11	-9.05	127.30	127.27	10.00	410589.92	630020.80	
7150.00	48.11	89.81	7095.08	-8.93	163.01	162.99	10.00	410590.04	630056.51	
7200.00	53.11	89.81	7126.80	-8.80	201.64	201.62	10.00	410590.17	630095.14	
7248.05	57.91	89.81	7154.00	-8.67	241.24	241.22	10.00	410590.30	630134.74	LBC 8A
7250.00	58.11	89.81	7155.03	-8.67	242.89	242.87	10.00	410590.30	630136.39	
7300.00	63.11	89.81	7179.56	-8.52	286.44	286.42	10.00	410590.45	630179.94	
7350.00	68.11	89.81	7200.20	-8.37	331.96	331.94	10.00	410590.60	630225.46	
7368.92	70.00	89.81	7206.97	-8.31	349.63	349.61	10.00	410590.66	630243.13	Hold
7400.00	70.00	89.81	7217.60	-8.21	378.83	378.81	0.00	410590.76	630272.33	
7500.00	70.00	89.81	7251.80	-7.90	472.80	472.78	0.00	410591.07	630366.30	
7568.92	70.00	89.81	7275.37	-7.69	537.56	537.55	0.00	410591.28	630431.06	Csg
7600.00	73.11	89.81	7285.20	-7.59	567.05	567.03	10.00	410591.38	630460.55	
7650.00	78.11	89.81	7297.63	-7.43	615.46	615.44	10.00	410591.54	630508.96	
7700.00	83.11	89.81	7305.78	-7.26	664.77	664.76	10.00	410591.71	630558.27	
7750.00	88.11	89.81	7309.61	-7.10	714.61	714.59	10.00	410591.87	630608.11	
7757.12	88.82	89.81	7309.80	-7.07	721.73	721.71	10.00	410591.90	630615.23	LP
7800.00	88.82	89.81	7310.69	-6.93	764.60	764.58	0.00	410592.04	630658.10	
7900.00	88.82	89.81	7312.75	-6.60	864.58	864.56	0.00	410592.37	630758.08	
8000.00	88.82	89.81	7314.80	-6.27	964.56	964.54	0.00	410592.70	630858.06	
8100.00	88.82	89.81	7316.86	-5.94	1064.53	1064.52	0.00	410593.03	630958.03	
8200.00	88.82	89.81	7318.92	-5.60	1164.51	1164.50	0.00	410593.37	631058.01	
8300.00	88.82	89.81	7320.98	-5.27	1264.49	1264.48	0.00	410593.70	631157.99	
8400.00	88.82	89.81	7323.04	-4.94	1364.47	1364.45	0.00	410594.03	631257.97	
8500.00	88.82	89.81	7325.10	-4.61	1464.45	1464.43	0.00	410594.36	631357.95	
8600.00	88.82	89.81	7327.16	-4.27	1564.43	1564.41	0.00	410594.70	631457.93	
8700.00	88.82	89.81	7329.22	-3.94	1664.40	1664.39	0.00	410595.03	631557.90	
8800.00	88.82	89.81	7331.28	-3.61	1764.38	1764.37	0.00	410595.36	631657.88	
8900.00	88.82	89.81	7333.34	-3.28	1864.36	1864.35	0.00	410595.69	631757.86	
9000.00	88.82	89.81	7335.40	-2.94	1964.34	1964.33	0.00	410596.03	631857.84	
9100.00	88.82	89.81	7337.46	-2.61	2064.32	2064.31	0.00	410596.36	631957.82	
9200.00	88.82	89.81	7339.52	-2.28	2164.30	2164.28	0.00	410596.69	632057.80	

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 9/4/2013	Time: 17:05:40	Page: 3
Field: Eddy County, NM (Nad:27)	Co-ordinate(NE) Reference: Well: PLU 422H, Grid North		
Site: Poker Lake Unit 422H	Vertical (TVD) Reference: SITE 3207.0		
Well: PLU 422H	Section (VS) Reference: Well (0.00N,0.00E,89.87Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9300.00	88.82	89.81	7341.58	-1.95	2264.27	2264.26	0.00	410597.02	632157.77	
9400.00	88.82	89.81	7343.64	-1.62	2364.25	2364.24	0.00	410597.35	632257.75	
9500.00	88.82	89.81	7345.70	-1.28	2464.23	2464.22	0.00	410597.69	632357.73	
9600.00	88.82	89.81	7347.75	-0.95	2564.21	2564.20	0.00	410598.02	632457.71	
9700.00	88.82	89.81	7349.81	-0.62	2664.19	2664.18	0.00	410598.35	632557.69	
9800.00	88.82	89.81	7351.87	-0.29	2764.16	2764.16	0.00	410598.68	632657.66	
9900.00	88.82	89.81	7353.93	0.05	2864.14	2864.14	0.00	410599.02	632757.64	
10000.00	88.82	89.81	7355.99	0.38	2964.12	2964.11	0.00	410599.35	632857.62	
10100.00	88.82	89.81	7358.05	0.71	3064.10	3064.09	0.00	410599.68	632957.60	
10200.00	88.82	89.81	7360.11	1.04	3164.08	3164.07	0.00	410600.01	633057.58	
10300.00	88.82	89.81	7362.17	1.37	3264.06	3264.05	0.00	410600.34	633157.56	
10400.00	88.82	89.81	7364.23	1.71	3364.03	3364.03	0.00	410600.68	633257.53	
10500.00	88.82	89.81	7366.29	2.04	3464.01	3464.01	0.00	410601.01	633357.51	
10600.00	88.82	89.81	7368.35	2.37	3563.99	3563.99	0.00	410601.34	633457.49	
10700.00	88.82	89.81	7370.41	2.70	3663.97	3663.97	0.00	410601.67	633557.47	
10800.00	88.82	89.81	7372.47	3.04	3763.95	3763.94	0.00	410602.01	633657.45	
10900.00	88.82	89.81	7374.53	3.37	3863.93	3863.92	0.00	410602.34	633757.43	
11000.00	88.82	89.81	7376.59	3.70	3963.90	3963.90	0.00	410602.67	633857.40	
11100.00	88.82	89.81	7378.64	4.03	4063.88	4063.88	0.00	410603.00	633957.38	
11200.00	88.82	89.81	7380.70	4.36	4163.86	4163.86	0.00	410603.33	634057.36	
11300.00	88.82	89.81	7382.76	4.70	4263.84	4263.84	0.00	410603.67	634157.34	
11400.00	88.82	89.81	7384.82	5.03	4363.82	4363.82	0.00	410604.00	634257.32	
11500.00	88.82	89.81	7386.88	5.36	4463.79	4463.80	0.00	410604.33	634357.29	
11600.00	88.82	89.81	7388.94	5.69	4563.77	4563.77	0.00	410604.66	634457.27	
11700.00	88.82	89.81	7391.00	6.03	4663.75	4663.75	0.00	410605.00	634557.25	
11800.00	88.82	89.81	7393.06	6.36	4763.73	4763.73	0.00	410605.33	634657.23	
11900.00	88.82	89.81	7395.12	6.69	4863.71	4863.71	0.00	410605.66	634757.21	
12000.00	88.82	89.81	7397.18	7.02	4963.69	4963.69	0.00	410605.99	634857.19	
12100.00	88.82	89.81	7399.24	7.35	5063.66	5063.67	0.00	410606.32	634957.16	
12200.00	88.82	89.81	7401.30	7.69	5163.64	5163.65	0.00	410606.66	635057.14	
12300.00	88.82	89.81	7403.36	8.02	5263.62	5263.63	0.00	410606.99	635157.12	
12400.00	88.82	89.81	7405.42	8.35	5363.60	5363.60	0.00	410607.32	635257.10	
12500.00	88.82	89.81	7407.48	8.68	5463.58	5463.58	0.00	410607.65	635357.08	
12600.00	88.82	89.81	7409.53	9.02	5563.56	5563.56	0.00	410607.99	635457.06	
12700.00	88.82	89.81	7411.59	9.35	5663.53	5663.54	0.00	410608.32	635557.03	
12800.00	88.82	89.81	7413.65	9.68	5763.51	5763.52	0.00	410608.65	635657.01	
12900.00	88.82	89.81	7415.71	10.01	5863.49	5863.50	0.00	410608.98	635756.99	
13000.00	88.82	89.81	7417.77	10.34	5963.47	5963.48	0.00	410609.31	635856.97	
13100.00	88.82	89.81	7419.83	10.68	6063.45	6063.46	0.00	410609.65	635956.95	
13200.00	88.82	89.81	7421.89	11.01	6163.42	6163.43	0.00	410609.98	636056.92	
13300.00	88.82	89.81	7423.95	11.34	6263.40	6263.41	0.00	410610.31	636156.90	
13400.00	88.82	89.81	7426.01	11.67	6363.38	6363.39	0.00	410610.64	636256.88	
13500.00	88.82	89.81	7428.07	12.01	6463.36	6463.37	0.00	410610.98	636356.86	
13600.00	88.82	89.81	7430.13	12.34	6563.34	6563.35	0.00	410611.31	636456.84	
13700.00	88.82	89.81	7432.19	12.67	6663.32	6663.33	0.00	410611.64	636556.82	
13800.00	88.82	89.81	7434.25	13.00	6763.29	6763.31	0.00	410611.97	636656.79	
13900.00	88.82	89.81	7436.31	13.33	6863.27	6863.28	0.00	410612.30	636756.77	
14000.00	88.82	89.81	7438.37	13.67	6963.25	6963.26	0.00	410612.64	636856.75	
14100.00	88.82	89.81	7440.42	14.00	7063.23	7063.24	0.00	410612.97	636956.73	
14200.00	88.82	89.81	7442.48	14.33	7163.21	7163.22	0.00	410613.30	637056.71	
14300.00	88.82	89.81	7444.54	14.66	7263.19	7263.20	0.00	410613.63	637156.69	
14400.00	88.82	89.81	7446.60	15.00	7363.16	7363.18	0.00	410613.97	637256.66	

Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 9/4/2013	Time: 17:05:40	Page: 4
Field: Eddy County, NM (Nad 27)	Co-ordinate (NE) Reference: Well: PLU422H	Gnd North	
Site: Poker Lake Unit 422H	Vertical (TVD) Reference: SINE: 3207.0		
Well: PLU422H	Section (VS) Reference: Well: 0.00N, 0.00E, 89.87Azi		
Wellpath:	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DGS deg/100ft	MapN ft	MapE ft	Comment
14500.00	88.82	89.81	7448.66	15.33	7463.14	7463.16	0.00	410614.30	637356.64	
14600.00	88.82	89.81	7450.72	15.66	7563.12	7563.14	0.00	410614.63	637456.62	
14700.00	88.82	89.81	7452.78	15.99	7663.10	7663.11	0.00	410614.96	637556.60	
14800.00	88.82	89.81	7454.84	16.32	7763.08	7763.09	0.00	410615.29	637656.58	
14900.00	88.82	89.81	7456.90	16.66	7863.05	7863.07	0.00	410615.63	637756.55	
15000.00	88.82	89.81	7458.96	16.99	7963.03	7963.05	0.00	410615.96	637856.53	
15100.00	88.82	89.81	7461.02	17.32	8063.01	8063.03	0.00	410616.29	637956.51	
15200.00	88.82	89.81	7463.08	17.65	8162.99	8163.01	0.00	410616.62	638056.49	
15300.00	88.82	89.81	7465.14	17.99	8262.97	8262.99	0.00	410616.96	638156.47	
15400.00	88.82	89.81	7467.20	18.32	8362.95	8362.97	0.00	410617.29	638256.45	
15500.00	88.82	89.81	7469.26	18.65	8462.92	8462.94	0.00	410617.62	638356.42	
15600.00	88.82	89.81	7471.32	18.98	8562.90	8562.92	0.00	410617.95	638456.40	
15700.00	88.82	89.81	7473.37	19.32	8662.88	8662.90	0.00	410618.29	638556.38	
15800.00	88.82	89.81	7475.43	19.65	8762.86	8762.88	0.00	410618.62	638656.36	
15876.06	88.82	89.81	7477.00	19.90	8838.90	8838.92	0.00	410618.87	638732.40	PBHL

Targets

Name	Description	TVD ft	N/S ft	E/W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL		7477.00	19.90	8838.90	410618.87	638732.40	32 7 41.212 N	103 53 6.646 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
7568.92	7275.37	0.000	0.000	Csg

Annotation

MD ft	TVD ft	Description
1029.00	1028.93	First Wft Svy
3538.00	3537.64	Last Wft Svy
3542.67	3542.31	Hold
6668.92	6668.56	KOP
7368.92	7206.97	Hold
7568.92	7275.37	Build
7757.12	7309.80	LP
15876.05	7477.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
7248.05	7154.00	LBC 8A		0.00	0.00

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

Report Date: August 08, 2013
Job Number: _____
Customer: BOPCO
Well Name: Poker Lake Unit 422H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: RWJ

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 410598.970 USFT	Latitude 32.1281577 DEG
East/West 629893.500 USFT	Longitude -103.9137318 DEG
Grid Convergence: .22°	
Total Correction: +7.36°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.12816° N	32° 7 min 41.368 sec
Longitude =	103.91373° W	103° 54 min 49.435 sec

Magnetic Declination =	7.58°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6805
Local Field Strength =	48310 nT	Magnetic Vector X = 23966 nT
Magnetic Dip =	59.97°	Magnetic Vector Y = 3188 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 41825 nT
Spud Date =	Aug 30, 2013	Magnetic Vector H = 24177 nT

Signed: _____ Date: _____