Form 3160-3 (April 2004)

FORM APPROVE	ΞD
OMB No 1004-013	
Expires March 31,	2007

UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	AGEMENT		5. Lease Serial No. 1. C 067145 6. If Indian, Allotee or Ti	ribe Name
la. Type of work DRILL / REENTE	ER		7 If Unit or CA Agreemen	t, Name and No.
lb. Type of Well: Oll Well Gas Well Other	Single Zone Multip	ple Zone	8 Lease Name and Well I North Indian Flats	
2. Name of Operator BOPCO, L. P.			9. API Well No. 30-015-	39136
3a. Address P. O. Box 2760 Midland, TX 79702	3b. Phone No. (include area code) 432-683-2277		10. Field and Pool, or Explo Indian Flats, West	ratory 380
4. Location of Well (Report location clearly and in accordance with an	y State requirements.*)		11. Sec., T. R. M. or Blk. and	d Survey or Area
At surface NWNW, UL B, 10' FNL & 2230' FI At proposed prod. zone NWNW, UL B, 810' FNL & 2230' FI			Sec 24, T21S-R28E	
14 Distance in miles and direction from nearest town or post office*			12 County or Parish	13. State
6 miles east of Carlsbad	r		Eddy County	NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17 Spacin	g Unit dedicated to this well	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2519'	19. Proposed Depth	ļ	BIA Bond No. on file 000050	
21. Elevations (Show whether DF, KDB, RT, GL, etc)	22. Approximate date work will sta	rt*	23. Estimated duration	
3275'	05/01/2011		15 Days	
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ttached to th	is form:	
 Well plat certified by a registered surveyor A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	ltem 20 above). Lands, the 5. Operator certification of the state of	cation specific inf	ormation and/or plans as may	· ·
25 Signature HUBHW	Name (Printed/Typed) Katy Holster		Date	3/11/10
Title Administrative Assistant				
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)		Date M A	Y 2 6 2011
Title FIELD MANAGED	Office			

conduct operations thereon. Conditions of approval, if any, are attached. APPROVAL FOR TWO YEARS 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

Application approval 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

*(Instructions on page 2)

Capitan Controlled Water Basin

FIELD MANAGER

MAY 27 2011 NMOCD ARTESIA

CARLSBAD FIELD OFFICE

SEE ATTACHED FOR CONDITIONS OF APPROVAL



Form 3160-5 (April 2004)

OCD-ARTESIA **UNITED STATES**

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OM B No. 1004-0137

Expires: March 31, 2007	
Lease Serial No.	_

1 Type of Well 2. Name of Operator BOPCO, L. P. 3a. Address P. O. Box 2760 Midland, TX 79702 4. Location of Well (Footage, Sec., T., R, M, or Survey Description) NWNE, UL B, 10' FNL, 2230' FEL, Lat N32.470667, Long W104.038119, Sec 24, T21S-R28E BHL: NWNE, UL B, 810' FNL, 2230' FEL, Lat N32.470667, Long W104.038131, Sec 24, T21S-R28E Education of Well (Footage, Sec., T., R, M, or Survey Description) 11. Co	e Serial No. 068284 Indian, Allottee or Tribe Name
2. Name of Operator BOPCO, L. P. 3a. Address P. O. Box 2760 Midland, TX 79702 4. Location of Well (Footage, Sec., T., R, M, or Survey Description) NWNE, UL B, 10' FNL, 2230' FEL, Lat N32.472864, Long W104.038119, Sec 24, T21S-R28E BHL: NWNE, UL B, 810' FNL, 2230' FEL, Lat N32.470667, Long W104.038131, Sec 24, T21S-R28E 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen	nit or CA/Agreement, Name and/or No.
3a. Address P. O. Box 2760 Midland, TX 79702 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NWNE, UL B, 10' FNL, 2230' FEL, Lat N32.472864, Long W104.038119, Sec 24, T21S-R28E BHL: NWNE, UL B, 810' FNL, 2230' FEL, Lat N32.470667, Long W104.038131, Sec 24, T21S-R28E 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, TYPE OF SUBMISSION TYPE OF ACTION Acidize Alter Casing Fracture Treat Reclamation Subsequent Report Casing Repair Casing Repair Plug and Abandon Temporarily Abando	ll Name and No. rth Indian Flats 24 Federal #14H
TYPE OF SUBMISSION Acidize Deepen Production (Start/Resum Reclamation Subsequent Report Casing Repair Prince Treat Recomplete Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any propose If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA Required subsequent following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new in testing has been completed Final Abandonment Notices shall be filed only after all requirements, including reclamation, have determined that the site is ready for final inspection.)	I Well No. 30 - 0/5 - 39/3 Id and Pool, or Exploratory Area lian Flats (Delaware) unty or Parish, State dy Co., NM
Notice of Intent Acidize Deepen Production (Start/Resum Alter Casing Fracture Treat New Construction Recomplete Casing Repair Change Plans Plug and Abandon Plug Back Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any propose If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA Required subsequence following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new in testing has been completed Final Abandonment Notices shall be filed only after all requirements, including reclamation, have determined that the site is ready for final inspection.) BOPCO, L.P. requests approval of new BOP description (attached) and plug back cement design. Plug back	OR OTHER DATA
·	Well Integrity Other Other ad work and approximate duration thereof, depths of all pertinent markers and zones nent reports shall be filed within 30 days terval, a Form 3160-4 shall be filed once to been completed, and the operator has a cement will be as follows: 300 sks

14 Thereby certify that the foregoing is true and correct		***************************************			===	
14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)						
	Title Administr	ative Assistant				
Signature LUCIUV	Date 3/	15/11				
THIS SPACE FOR FEDERAL	OR STĂTE	OFFICE USE				
/s/ Don Peterson	Title		Date	MAY	2 6	2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant 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.		CARLSBAD F	IELD OF	FICE		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any p States any false, fictitious or fraudulent statements or representations as to any matter	erson knowingly a	and willfully to make to	any departr	nent or agen	cy of th	e United

(Instructions on page 2)

Surface casing to be set into the Rustler below all fresh water sands.

Production casing will be 5-1/2" with ECP (External Casing Packer) and DV Tool set at approximately 2500'. The 5-1/2" casing will be cemented from DV Tool to surface using Rising Star Class "C" plus additives. The 5-1/2" casing will be 17#, J or K-55, perforated with 1/4" perforations, 6 SPF, 60 degree phasing and not cemented thru lateral.

Drilling procedure, BOP diagram, anticipated tops and surface plans attached.

This well is located outside the Secretary's Potash area and outside the R-111 Potash area. There are potash leases within 5 miles of the location. (4 miles southeast)

BOPCO, L.P., at P. O. Box 2760, Midland, TX, 79702 is a division office of BOPCO, L.P., 201 Main Street, Ft. Worth, TX 76102, Bond No. COB000050 (Nationwide).

EIGHT POINT DRILLING PROGRAM BOPCO, L.P.

NAME OF WELL: North Indian Flats 24 Federal #14H

LEGAL DESCRIPTION - SURFACE: 10' FNL & 2230' FEL, Section 24, T21S, R28E, Eddy

County, New Mexico.

Lateral BHL: 810' FNL & 2230' FEL, Section 24, T21S, R28E, 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 3288'

GL 3275'

Estimated							
	Top Fr	om KB	Estimated				
Formation	TVD	MD	Subsea Top	BEARING			
T/Rustler	13'	13'	+3,275'	Barren			
T/Fresh Water	170'	170'	+3,118'	Fresh Water			
B/Rustler	281'	281'	+3,007'	Barren			
T/Salt	428'	428'	+2,860'	Barren			
B/Salt	2,401'	2,401'	+887'	Barren			
T/Delaware Mtn Grp	2,756'	2,756'	+532'	Barren			
Clean Carb above R. Sand	2,862'	2,862'	+426'	Oil/Gas			
T/Ramsey "74" Sand	2,883' .	2,883'	+405'	Oil/Gas			
T/"74" Reservoir	2,901'	2,901'	+387'	Oil/Gas			
B/"74" Reservoir	2,913'	2,913'	+375'	Oil/Gas			
T/Ramsey "66" Sand	2,928'	2,928'	+360'	Oil/Gas			
T/Ramsey "66" Sand	3,008'	3,008'	+280'	Oil/Gas			
B/Ramsey "66" Sand	3,008'	3,008'	+280'	Oil/Gas			
TD	3,200'	3,200'	+88'	Oil/Gas			
KOP	2,618'	2,618'	+670'	Oil/Gas			
EOC "74" Sand Target	2,906'	3,069'	+383'	Oil/Gas			
TD (Horizontal)	2,909'	3,582'	+379'	Oil/Gas			

POINT 3: CASING PROGRAM

<u>TYPE</u>	HOLE SIZE	<u>INTERVALS</u>	<u>PURPOSE</u>	CONDITION
14"	20"	0' - 40'	Conductor	Contractor Discretion
8 5/8", 24#, K-55, 8rd STC	12-1/4"	0' – 418'	Surface	New
5-1/2", 17#, J or K-55, 8rd STC	7-7/8"	0' - 3,069'	Production	New
5-1/2", 17#, J or K-55, 8rd, STC	7-7/8'	3,069'-3,582'	Production	New
Perforated (1/4" holes, 6 SPF, 60)			
degree phasing)				

SURFACE CASING

Tension A 1.6 design factor utilizing the effects of buoyancy (9.2 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.48 psi/ft). The effects of axial load

on collapse will be considered.

Burst A 1.3 design factor with a surface pressure equal to the fracture gradient at

setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure a that depth. Backup pressure will be formation pore pressure. In all cases a conservative fracture pressure will be used such that it represents the upper limit of potential fracture resistance up to a 1.0 psi/ft

gradient. The effects of tension on burst will not be utilized.

PRODUCTION CASING

Tension A 1.6 design factor utilizing the effects of buoyancy (11.0 ppg).

Collapse A 1.0 design factor with full internal evacuation and a collapse force equal to the

mud gradient in which the casing will be run (0.57 psi/ft). The effects of axial load

on collapse will be considered.

Burst A 1.25 design factor with anticipated maximum tubing pressure (5,045 psig) on

top of the maximum anticipated packer fluid gradient. Backup on production strings will be formation pore pressure (0.43 psi/ft). The effects of tension on

burst will not be utilized.

POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A BOP equivalent to Diagram 1 will be nippled up on the surface casing head. The BOP stack, blind and pipe rams, chokes, kill line, Upper and lower Kelly valves, inside BOP, choke manifold when rigged up on the surface casing will be tested to 2000 psig (working-pressure-of-BOPE) and 250 psi by independent tester.

These tests will be preformed:

- a) When initially installed
- b) Whenever any seal subject to test pressure is broken
- c) Following related repairs
- d) At 30 day intervals

A function test to insure that the preventers are operating correctly will be performed on each trip. See the attached Diagram 1 for the minimum criteria for the choke manifold.

A function test to insure that the preventers are operating correctly will be performed on each trip. See the attached Diagram 1 for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	FV	PV	<u>YP </u>	FL	<u>Ph</u>
0' - 418'	FW	8.5 - 9.2	45-35	NC	NC	NC	9.5
418' - 3,200'	BW	10.0 - 10.3	28-30	NC	NC	NC	9.5
2,618'-3,582'	BW	10.0 - 10.3	28-34	2-4	2-4	20 or less	9.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

No drill stem tests are planned

B) LOGGING.

PEX (GR-CNL/LDT-AIT) @ TD. GR/CNL to surface.

FMI possible at TD of pilot hole.

Mud Locate To

Mud Logger: Rig up at surface to assist in picking top of salt.

GR while drilling lateral.

C) CORING

No cores are anticipated.

C) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	TYPE	GALS/SX	<u>PPG</u>	FT3/SX
SURFACE: Lead: 0'-118' (100% excess) (circulate to surface)	75	118	Rising Star Class "C" 35:65+6% gel+5% NaCl	9.95	12.80	1.90
Tail: 118'-418' (100% excess)	225	300	Rising Star Class "C"+2% CaCL2+additives	6.39	14.8	1.36
PRODUCTION: 1 ³⁴ Stage Lead: 0'-2,618' (50% excess circ to surface)	350	2,618	Rising Star Class "C" 35:65+5% NaCl	9.95	12.8	1.90
Tail: 2,618'-3,069' (50% excess)	100	451	Rising Star Class "C	6.39	14.8	1.36

and.

E) DIRECTIONAL DRILLING

BOPCO, L.P. plans to drill out the 8-5/8" surface casing with a 7-7/8" bit to a TVD of approximately 3,200'. Open hole logs will be run and the 7-7/8" hole then plugged back to 2,300'. This cement plug will be drilled out to 2,620', tested and then a directional hole will be kicked off building angle at 20 deg/100' and azimuth of 180 degrees. Azimuth will be maintained to a measured depth of 3,582' (2,909' TVD)'. At this depth 5-1/2", 17#, J or K-55, LTC casing will be installed and cemented with DV Tool and ECP @ approximately 3,069' with cement being circulated to surface. The 5-1/2" casing in the lateral will be 17#, J or K-55, LTC perforated with ½" perforations, 6 SPF, 60 degree phasing and not cemented.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Delaware section. A BHP of 1472 psi (max) or MWE of 8.33 ppg is expected. H₂S contingency plan is attached.

POINT 8: OTHER PERTINENT INFORMATION

A) Auxiliary Equipment

Upper and lower kelly cocks. Full opening stab in valve on the rig floor.

B) Anticipated Starting Date

Spud date is 5/01/2011.

15 days drilling operations

7 days completion operations

GEG/jdb



Drilling Services

Proposal

BOPCO, L.P.

NORTH INDIAN FLATS 24 FED #14

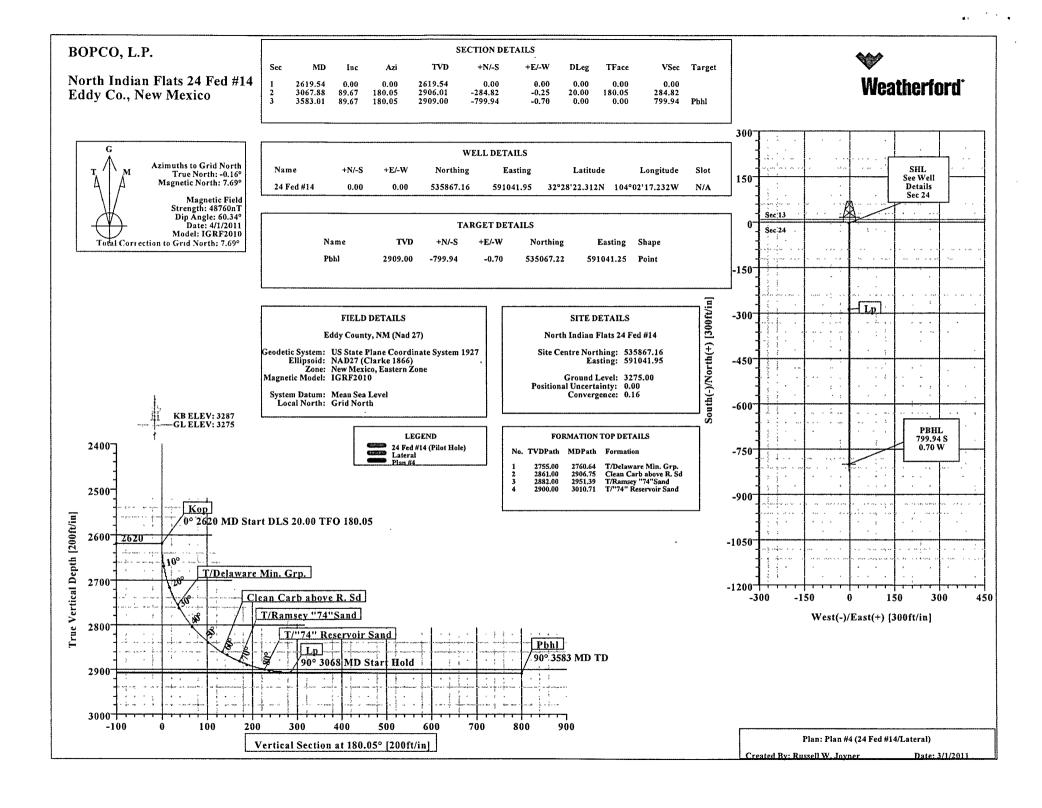
EDDY CO, NM

WELL FILE: PLAN 4

MARCH 1, 2011

Weatherford International, Ltd.

P.O. Box 61028 Midland, TX 79711 USA +1.432.561.8892 Main +1.432.561.8895 Fax www.weatherford.com



Weatherford International Ltd. WFT Plan Report - X & Y's



Company: BOPCO, L.P. Field: Site:

Eddy County, NM (Nad 27) North Indian Flats 24 Fed #14

Well: 24 Fed #14 Wellpath: Lateral

Date: 3/1/2011 Time: 13:25:17

Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference:

Survey Calculation Method:

Well: 24 Fed #14, Grid North

SITE 3287.0 Well (0.00N,0.00E,180.05Azi)

Minimum Curvature: Db: Sybase

Plan: Plan #4

Principal: Yes Date Composed: Version: Tied-to:

2/28/2011

User Defined

Field:

Eddy County, NM (Nad 27)

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Eastern Zone

Coordinate System: Geomagnetic Model: Well Centre IGRF2010

Site:

North Indian Flats 24 Fed #14

Site Position: From: Map Position Uncertainty:

Ground Level:

Well Position:

Northing: Easting: 0.00 ft

535867.16 ft 591041.95 ft Latitude:

32 28 22.312 N 104 17.232 W

Longitude: North Reference:

Grid

Northing:

Easting:

3275.00 ft

Grid Convergence:

Slot Name:

Latitude:

Longitude:

Declination:

0.16 deg

Well: 24 Fed #14

+N/-S

+E/-W

0.00

535867.16 ft 591041.95 ft

Height 3287.00 ft

+N/-S

ft

0.00

32 28 22.312 N 104 2 17.232 W

Position Uncertainty: Wellpath: Lateral

Current Datum:

0.00 ft 0.00 ft 0.00 ft

Drilled From:

Pilot Hole Tie-on Depth: Above System Datum:

2619.54 ft Mean Sea Level 7.85 deg

SITE 4/1/2011 Magnetic Data: Field Strength: Vertical Section:

48760 nT Depth From (TVD)

Mag Dip Angle: +E/-W ft

0.00

60.34 deg Direction deg

180.05

Plan Section Information

ı													
	MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W	DLS deg/100	Build ft deg/100	Turn ft deg/1001	TFO t deg	Targe	in the second	
ļ	2619.54	0.00	0.00	2619.54	0.00	0.00	0.00	0.00	0.00	0.00			
ı	3067.88	89.67	180.05	2906.01	-284.82	-0.25	20.00	20.00	-40.14	180.05			
ı	3583.01	89.67	180.05	2909.00	-799.94	-0.70	0.00	0.00	0.00	0.00	Pbhl		

Survey

192.8	Caracomount PS-29 State of	Color Pro RECEIPED TO THE TOTAL SECTION	WITCH A WARRANG TO BUILDING	percent for a real by residue, the	. in . The media Western and au	TEATHER WATER PT	MARKET IN THE PROPERTY OF AN	THE R. L. LEWIS CO., LANSING MICH.	and Annual Property of	AR 400 2000	A March 19 M. C. As Low T.
:nt	Comme	MapE	MapN	DLS	VS .	E/W	N/S	TVD	Azim	Incl	MD
465		and ft	光。机器使温度	deg/100ft	ft.	o flate	t fi	in the second	deg_	deg	据》211 · 保護電
	Kop	591041.95	535867.16	0.00	0.00	0.00	0.00	2619.54	0.00	0.00	2619.54
		591041.94	535855.93	20.00	11.22	-0.01	-11.22	2698.95	180.05	16.09	2700.00
n. G	T/Delaware Mi	591041.92	535833.11	20.00	34.05	-0.03	-34.05	2755 00	180.05	28.22	2760.64
		591041.90	535812.17	20.00	54.98	-0.05	-54.98	2788.30	180.05	36.09	2800 00
		591041.84	535740.49	20.00	126.66	-0.11	-126.66	2857.30	180.05	56.09	2900.00
ove	Clean Carb ab	591041.83	535734.84	20.00	132.31	-0.12	-132.31	2861.00	180.05	57.44	2906.75
"Sår	T/Ramsey "74"	591041.80	535695.50	20.00	171.65	-0.15	-171.65	2882.00	180.05	66.37	2951.39
	•	591041.76	535649.54	20.00	217.62	-0.19	-217.62	2897.62	180.05	76 09	3000.00
oir S	T/"74" Reserve	591041.75	535639.09	20.00	228.06	-0.20	-228.06	2900.00	180.05	78.23	3010.71
	Lp	591041.70	535582.34	20.00	284.82	-0.25	-284.82	2906.01	180.05	89.67	3067.88
		591041.67	535550.22	0.00	316.94	-0.28	-316.94	2906.20	180.05	89.67	3100 00
- }		591041.58	535450.22	0.00	416.94	-0.37	-416.94	2906 78	180.05	89.67	3200.00
		591041.49	535350.22	0.00	516.94	-0.45	-516.93	2907.36	180.05	89.67	3300.00
		591041.41	535250.22	0.00	616.93	-0.54	-616.93	2907.94	180.05	89.67	3400.00
		591041.32	535150.22	0.00	716.93	-0.63	-716.93	2908.52	180.05	89.67	3500.00
	Pbhl	591041.25	535067.22	0.00	799.94	-0.70	-799.94	2909.00	180.05	89.67	3583 01

Weatherford International Ltd. WFT Plan Report - X & Y's



Company: BOPCO E.P. Field: Eddy County, NM (Nad 27) Site: North Indian Flats 24 Fed #14

24 Fed #14 Wellpath: Lateral

Date: 3/1/2011 Time: 13:25:17 Page: Co-ordinate(NE) Reference: Well: 24 Fed #14. Grid North Vertical (TVD) Reference: SITE 3287.0

Section (VS) Reference: Section (VS) Reference: Well (0.00N,0.00E,180.05Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Targets

Well:

Map Map Catifude Clongitude Northing Easting Deg Min Sec Deg Min Sec +N/-S ft 143 Description ption TVD Dir. ft Name 😞 +E/-W Dip. Ħ.

Pbhl 2909.00 -799.94 -0.70 535067.22 591041.25 32 28 14.396 N 104 2 17.266 W

Casing Points

MD TVD Diameter Hole Size Name

Annotation

	MD ft	ÍVD ft	
	2619.54	2619.54	Кор
	3067.88	2906.01	Lp'
ł	3583.00	2909.00	PbN

Formations

2000	MD.	TVD	Formations Lithology	The state of the s	Direction deg
	2760.64	2755.00	T/Delaware Min. Grp.	0.00	0.00
١	2906.75	2861.00	Clean Carb above R. Sd	0.00	0.00
1	2951.39	2882.00	T/Ramsey "74"Sand	0.00	0.00
	3010.71	2900.00	T/"74" Reservoir Sand	0.00	0.00

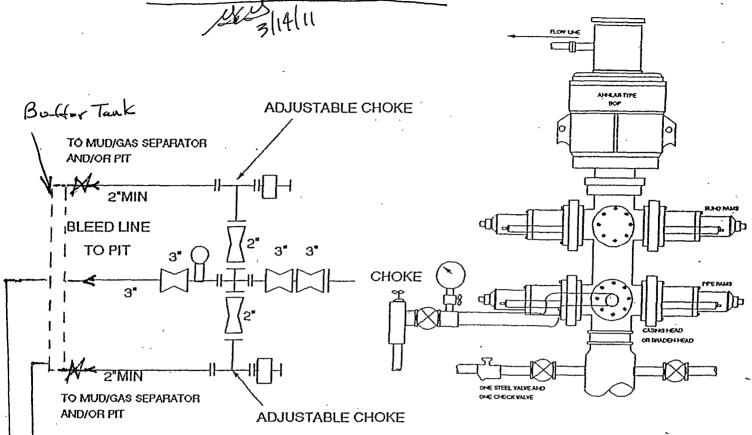


Weatherford Drilling Services

GeoDec v5.03

Report Date: Job Number:	February 03, 2011					
Customer:	BOPCO North Indian Flats 24 Fed #14 Eddy Co, NM RWJ					
Well Name:						
API Number:						
Rig Name:						
Location:						
Block: Engineer:						
US State Plane 192	7	Geodetic Latitude / Longitu	de			
System: New Mexico East 3001 (NON-EXACT) System: Latitude / Longitude Projection: SPC27 Transverse Mercator Projection: Geodetic Latitude and Longitude						
						Datum: NAD 1927 (
Ellipsoid: Clarke 186	36					
North/South 535867						
East/West 591041.950 USFT Longitude -104.0381201 DEG						
Grid Convergence:	.16°					
Total Correction: +7	7.69°					
Geodetic Location WGS84 Elevation = 0.0 Meters						
Latitude = 32.47286° N 32° 28 min 22.312 sec						
Longitude = 104	1.03812° W 104°	2 min 17.232 sec				
Magnetic Declination	n = 7.85°	[True North Offset]				
Local Gravity =	.9988 g	CheckSum =	6677			
Local Field Strength	= 48756 nT	Magnetic Vector X =	23900 nT			
Magnetic Dip =	60.34°	Magnetic Vector Y =	3293 nT			
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42369 nT			
Spud Date =	Apr 01, 2011	Magnetic Vector H =	24126 nT			
0.		Б.:				
Signed:		Date:				

11" × 3000 PSI WP



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. One double gate blowout preventer with lower rams for pipe and upper rams blind, all hydraulically controlled.
- B. Opening on preventers between rams to be flanged, studded or clamped and at least two inches in diameter.
- C. All connections from operating manifold to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventers to have a pressure rating equivalent to that of the BOP's.
- F. Manual controls to be installed before drilling cement plug.
- G. Valve to control flow through drill pipe to be located on rig floor.
- H. All chokes will be adjustable. Choke spool may be used between rams.

DIAGRAM I

> To steel Mud-tanks > Bleed Line to Steel Yz Pit (Approx 100 from well)