

Form 3160-3
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> REENTER		5. Lease Serial No. NM030456
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BOPCO, L. P. (260737)		7. If Unit or CA Agreement, Name and No.
3a. Address P. O. Box 2760 Midland, TX 79702		8. Lease Name and Well No. J. F. Harrison Federal #1 (38587)
3b. Phone No. (include area code) 432-683-2277		9. API Well No. 30-015-04749
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW, UL D, 660' FNL, 660' FEL, Lat N32.15059, Long W103.840908 At proposed prod. zone NWNW, UL D, 660' FNL, 660' FEL, Lat N32.15059, Long W103.840908		10. Field and Pool, or Exploratory SWD; Devonian (96101)
11. Sec., T. R. M. or BLM and Survey or Area Sec 12, T25S, R30E		12. County or Parish Eddy County
13. State NM		14. Distance in miles and direction from nearest town or post office* 18 miles Southeast of Loving, N.M.
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 920	17. Spacing Unit dedicated to this well N/A
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 446'	19. Proposed Depth 17,300'	20. BLM/BIA Bond No. on file COB000050
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3362' GL	22. Approximate date work will start* 11/01/2010	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>K. Holster</i>	Name (Printed/Typed) Katy Holster	Date 11/19/11
Title Administrative Assistant		
Approved by (Signature) J. JEANETTE MARTINEZ	Name (Printed/Typed)	Date MAR 25 2011
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

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 conduct operations thereon.

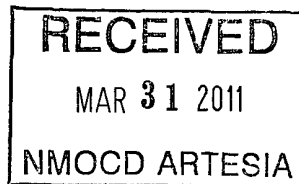
Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

SWD-1259

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
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.

NM030456

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well☐ Gas Well☒ Other

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

8. Well Name and No.

JF Harrison Federal #1

2. Name of Operator

9. API Well No.

30-015-04749

3a. Address

P.O. Box 2760 Midland TX 79702

3b. Phone No. (include area code)

(432)683-2277

10. Field and Pool or Exploratory Area

Devonian

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

660' FNL, 660' FEL, Sec 12, T25S, R30E

11. Country or Parish, State

Eddy County**NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Convert to SWD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 permission to convert this well to a SWD well.

BOPCO, L.P. was authorized by the OCD, on June 23, 2010, to inject produced water for disposal puposes (Order No. R-13274). The following details the process.

Tie 7" liner back to surface. Cement to surface. RIH w/ 4-1/2" J-55 Seal Tite IPC tbg set @ 16,575'. 10K Reliant Mechanical Set Hornet Pkr EXT/INT nickel plated will be set @ 16,575'. Acidize open hole section with ~ 28,950 gal 15% NEFE HCl acid. Inject into the Devonian formation 16,626'-17,205' (open hole) and place well on injection with an average rate of 14,000 BWPd and a maximum pressure of 3325 psi.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Valerie TruaxTitle **Regulatory Clerk**

Signature

Date **01/07/2011****RECEIVED****MAR 31 2011****NMOCD ARTESIA****THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

/S/ JEANETTE MARTINEZ

FIELD MANAGER

Title

Date

MAR 25 2011

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 FIELD OFFICE

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(Instructions on page 2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
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1. Type of Well

☐ Oil Well☐ Gas Well☒ Other

2. Name of Operator

BOPCO, L.P.

3a. Address

P.O. Box 2760 Midland TX 79702

3b. Phone No. (include area code)

(432)683-2277

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

8. Well Name and No.

JF Harrison Federal #1

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660' FNL, 660' FEL, Sec 12, T25S, R30E

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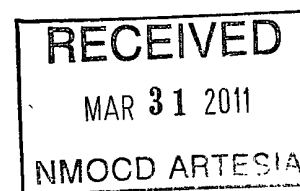
Eddy County**NM**

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other excavate
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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BOPCO, L.P. respectfully requests permission to excavate a 25' x 25' hole around the J.F. Harrison Federal #1 well head (Long: W103.840908; Lat N32.15059). This excavation is necessary in order to locate the top of the well head, prior to re-entry of the J.F. Harrison wellbore.



14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Valerie TruaxTitle **Regulatory Clerk**

Signature

Date **02/09/2011****THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

/s/ Don Peterson

Title

FIELD MANAGER

Date

FEB 9 2011

Office

CARLSBAD FIELD OFFICE

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March 22, 2011

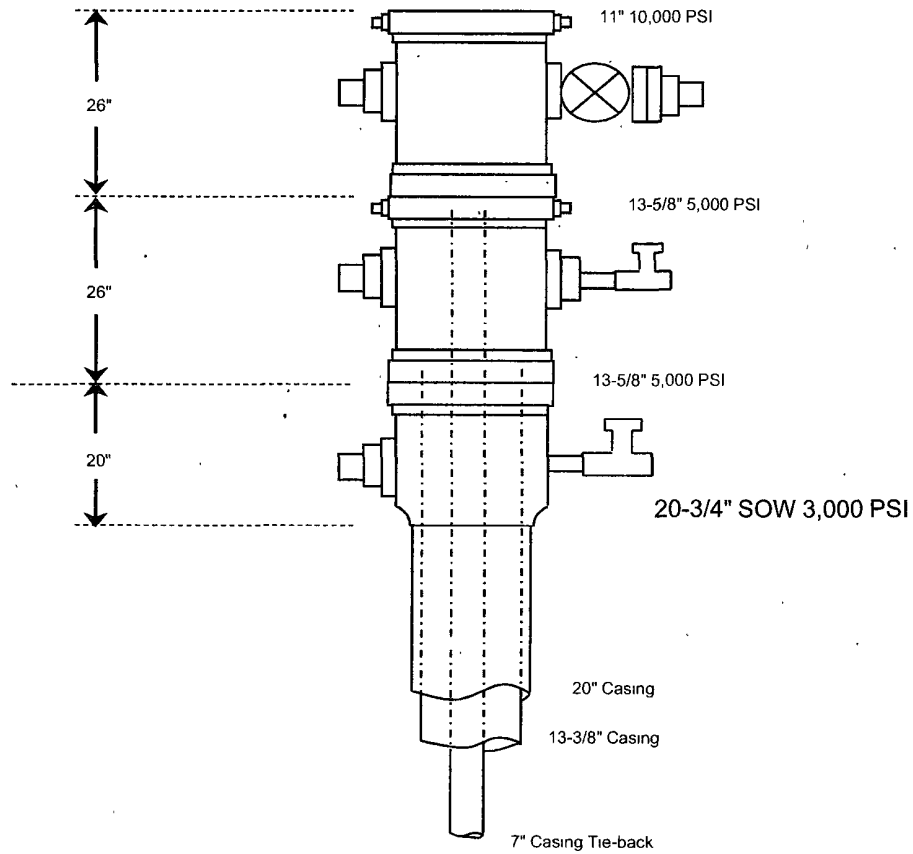
**Re-Entry General Procedure (Rev 2011.03.22)
Harrison Federal #1**

1. Location will be graded, re-leveled, caliche added as necessary.
2. The cutoff 20" surface casing will be located by backhoe, 6'x6'x6' cellar installed. The 20" casing will be dug out and stripped down. A 20-3/4" 3,000 psi SOW by 13-5/8" 5,000 psi flanged casing head will be installed (Diagram A) and slips set around the 13-3/8" and energized within the 13-5/8" casing bowl.
3. Rotary drilling rig will be moved in and a 13-5/8" 5,000 psi by 13-5/8" 5,000 psi casing spool will be installed. BOPE will be rigged up with 5,000 psi dual ram BOP's and 5,000 psi annular. The BOPE will be tested as per Onshore Drilling Order No. 2.
4. The 13-3/8" casing will be tested to 1,000 psi prior to drilling out the plug at +/- 3,640'. Prior to drilling out the bridge plug at 6,230', the 9-5/8" casing will be logged with a casing imaging tool. A cement bond log will be performed from 6,230' to surface along with a multi-sensor caliper within the 13-3/8" casing. The 9-5/8" casing will be tested to 1,000 psi. Prior to drilling out the bridge plug at 9,560', the 9-5/8" casing will be tested to 1,000 psi. After drilling the bridge plug and tagging the top of the liner at 9,850', the 9-5/8" casing by 7" liner top will be tested to 1000 psi. The bridge plug at 12,112' will be tagged and the 7" casing will be tested to 1,000 psi and a GR/CCL will be logged from 12,112' – 9,850'.
5. A 7", 26#, L80, buttress tie back casing string will be installed and cemented in place. TOC at 5000'. Maximum injection pressure initially will be 3325 psi. 7", 26#, L80 casing has a burst pressure of 7240 psi (Lonestar Steel). Safety factor for burst calculated to be 2.18.
6. After landing 7" casing, the bridge plug at 12,112' will be drilled out to PBTD of 16,282' and the 7" casing again tested to 1,500 psi. The well will be deepened to 17,205' (500').
7. Rotary drilling tools will be pulled from the well and a 4-1/2", 12.75 lb/ft, IPC RTS8 L80 injection string installed with Baker permanent packer. Packer set at 16,575'.



Stephen M. Martinez
Division Drilling Superintendent

BOPCO, L. P
Recommended Casing Head Spacing
J.F. Harrison Federal #1



Note: Actual lengths of casing heads may vary.

DIAGRAM A

October 12, 2010

BOPCO, L.P. requests approval to re-enter the subject well and convert to disposal well in Devonian.

This well is located outside the R111 Potash area and outside the Secretary's Potash area.

Drilling procedure and wellbore sketches showing present configuration and proposed final configuration are attached.

BOPCO, L.P. at P.O. Box 2760, Midland, TX 79702 is a subsidiary of BOPCO, L.P. 201 Main Street, Ft. Worth, Texas 76102. Bond No. CO000050 (Nationwide).

GEG/keh

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

NAME OF WELL: Harrison Federal #1

LEGAL DESCRIPTION - SURFACE: 660' FSL & 660' FEL, Section 12, 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 3380.0 (est)
GL 3362.0

<u>FORMATION</u>	<u>ESTIMATED TOP FROM KB</u>	<u>ESTIMATED SUBSEA TOP</u>	<u>BEARING</u>
T/Devonian	16,622'	- 13,242'	Oil/Gas
T/Devonian Dolomite	16,688'	- 13,308	Oil/Gas
TD	17,205'	- 13,825'	Oil/Gas

POINT 3: CASING PROGRAM

<u>TYPE</u>	<u>HOLE SIZE</u>	<u>INTERVALS</u>	<u>PURPOSE</u>	<u>CONDITION</u>
7", 26#, L-80, Buttress	NA	Surface – 9,850'	Production	New

CASING DESIGN SAFETY FACTORS:

<u>TYPE</u>	<u>TENSION</u>	<u>COLLAPSE</u>	<u>BURST</u>
7", 26#, L-80, Buttress	1.95	1.3	2.18

DESIGN CRITERIA AND CASING LOADING ASSUMPTIONS:

PRODUCTION CASING

Tension	A 1.6 design factor utilizing the effects of buoyancy (8.3 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 (0.433 psi/ft). The effects of axial load on collapse will be considered.
Burst	A 1.25 design factor with anticipated maximum tubing pressure (3325 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 2 will be nipped 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 5000 psig (working pressure of BOPE) by independent tester. 7" casing will be tested to 1500 psig.

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 2 for the minimum criteria for the choke manifold.

POINT 5: MUD PROGRAM

<u>DEPTH</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>	<u>Ph</u>
16,705' – 17,205'	FW	8.3 – 8.5	28-30	NC	NC	NC	9.5

POINT 6: TECHNICAL STAGES OF OPERATION

A) TESTING

No drill stem tests are planned

B) LOGGING

No logs are anticipated.

C) CORING

No cores are anticipated.

D) CEMENT

<u>INTERVAL</u>	<u>AMOUNT</u> <u>SX</u>	<u>FT OF</u> <u>FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT³/SX</u>
PRODUCTION:						
Lead 9,850' – 5,000' (10% excess)	580	4,850	Premium Plus H + 0.4% Halad-9	6.31	14.80	1.33

E) DIRECTIONAL DRILLING

No directional services anticipated.

POINT 7: ANTICIPATED RESERVOIR CONDITIONS

Normal pressures are anticipated throughout the Devonian section. A BHP of 7449 psi (max) or MWE of 8.3 ppg is expected. The Devonian production does not contain H₂S. An H₂S contingency plan should not be required.

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 11/1/2010.

8 days drilling operations

7 days completion operations

CURRENT WELLBORE DIAGRAM

Lease: J F Harrison Federal

Well No.: 1

Field: Wildcat (Wolfcamp)

Location: 660' FNL & 660' FWL, SEC 12-T25S-R30E

County: EDDY St: NM

API: 30-015-04749

Surface Csg.

Size: 20"
Wt: 94#
Grd: H-40
Set @: 557'
Sxs cmt: 750
Circ: 7 sks
TOC: Surface
Hole Size: 24"

20 sxs cmt

Elevation DF: 3356'
Spud: 7/22/1952
Completed: 10/27/1953

20" @ 557'

Intermediate Csg.

Size: 13 3/8"
Wt: 61/72#
Grd: J-55
Set @: 3971'
Sxs Cmt: 6400
Circ: 2000 sks
TOC: Surface
Hole Size: 17 1/2"

DV Tool @ 2792'

Cut & pull 9 5/8" @ 3800'
spotting 100 sxs cmt on top
13 3/8" @ 3971'

TOC 4560'

DV Tool @ 6008'

Intermediate Csg.

Size: 9 5/8"
Wt: 40/42#
Grd: N-80
Set @: 10,073'
Sxs Cmt: 3507
Circ: None
TOC: 4560' (Temp Log)
Hole Size: 12 1/4"

Perf & Sqz @ 7,250', 7,652 - 7,662'
Perf @ 7,665' - 7,670'
Perf & Sqz @ 7,680'
Perf & Sqz @ 8,450'
Perf & Sqz 9380' - 9400'
Perf & Sqz 9380' - 9460', 9525' - 9527'

2 sxs cmt cap
9 5/8" Magnesium bridge plug @ 9560'

Production Csg.

Size: 7"
Wt: 32#
Grd: N-80
Set @: 9850' - 16,626'
Sxs Cmt: 1675
Circ: None
TOC: 10490'
Hole Size: 8 5/8"

Perf & Sqz @ 10,025'

9 5/8" @ 10,073'

TOC 10,490'
Perf & Sqz @ 11,930'
7" CIBP @ 12,112'
Perf 12,220' - 12,240', 12,250' - 12,280', 12,315' - 12,330',
12,320' - 12,335', 12,448' - 12,251' (Sqz'd)
Perf & Sqz @ 12,360'

Plugged back to 16,282' w/ 75 sxs cmt

7" @ 16,626'

Open Hole

Size: 5 7/8"

PBTD: 16,282'
TD: 16,705'

Updated: 8/23/2010
Author: crm
Engr: GEG

PROPOSED WELLBORE DIAGRAM

Lease: J F Harrison Federal Well No.: 1
Injection
Reservoir: Devonian
Location: 660' FNL & 660' FWL, SEC 12-T25S-R30E
County: EDDY St: NM API: 30-015-04749

Surface Csg.

Size: 20"
Wt: 94#
Grd: H-40
Set @: 557'
Sxs cmt: 750
Circ: 7 sks
TOC: Surface
Hole Size: 24"

Elevation DF: 3356'
Spud: 7/22/1952
Completed: 10/27/1953

Intermediate Csg.

Size: 13 3/8"
Wt: 61/72#
Grd: J-55
Set @: 3971'
Sxs Cmt: 6400
Circ: 2000 sks
TOC: Surface
Hole Size: 17 1/2"

Intermediate Csg.

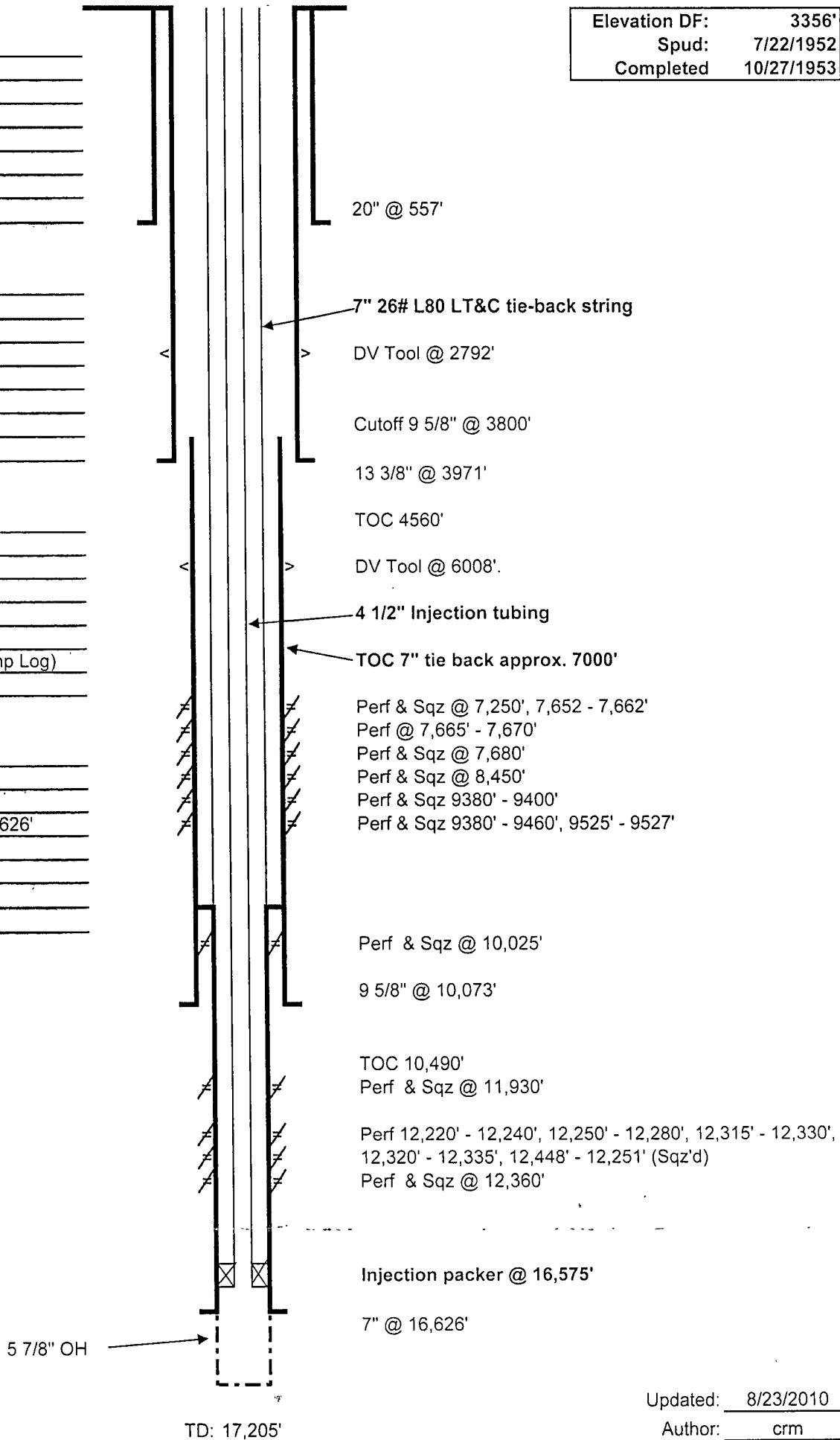
Size: 9 5/8"
Wt: 40/42#
Grd: N-80
Set @: 10,073'
Sxs Cmt: 3507
Circ: None
TOC: 4560' (Temp Log)
Hole Size: 12 1/4"

Production Csg.

Size: 7"
Wt: 32#
Grd: N-80
Set @: 9850' - 16,626'
Sxs Cmt: 1675
Circ: None
TOC: 10490'
Hole Size: 8 5/8"

Open Hole

Size: 5 7/8"

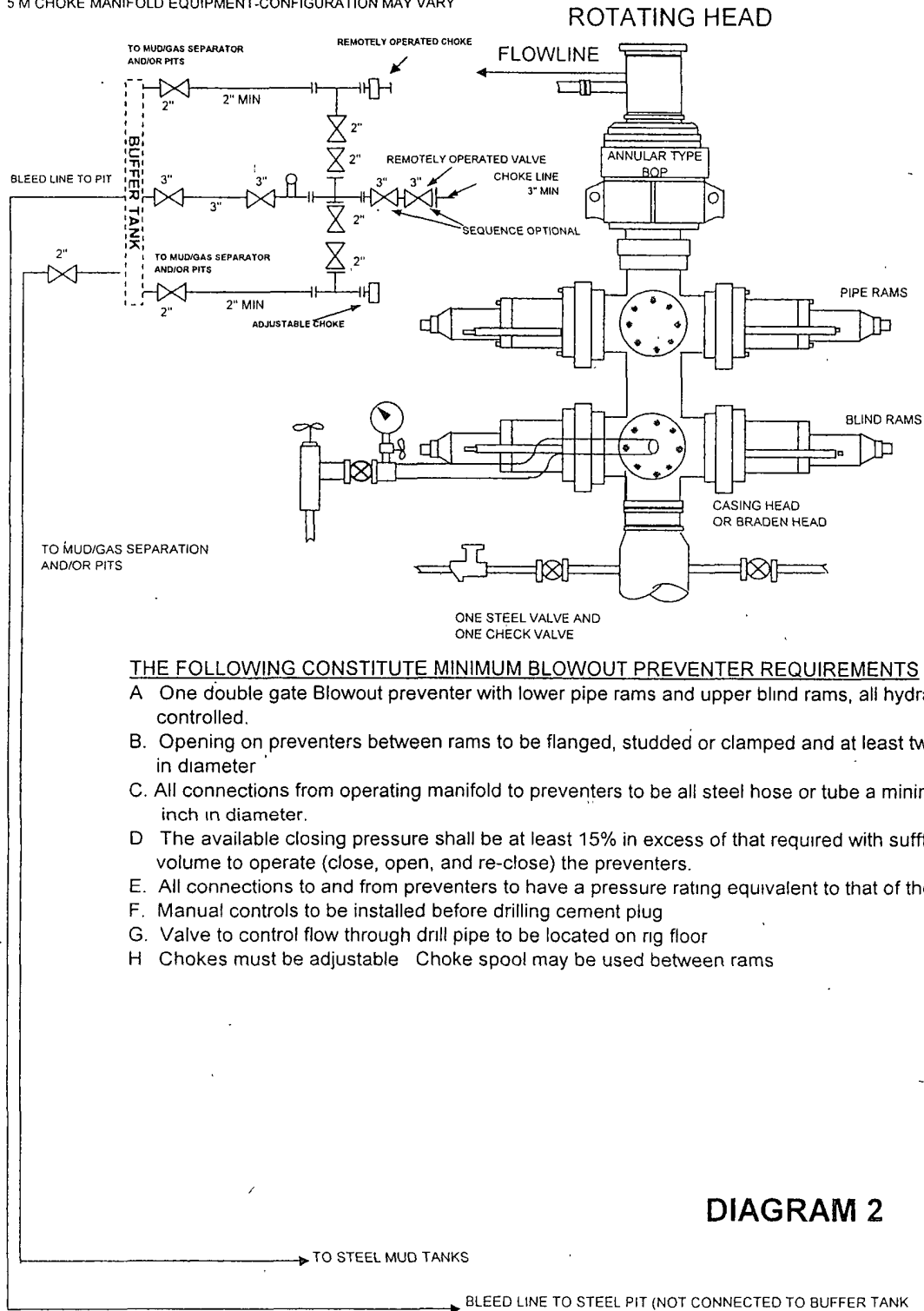


Updated: 8/23/2010
Author: crm
Engr: GEG

BOPCO, L. P.

5-M WP BOPE WITH 5-M WP ANNULAR

5 M CHOKE MANIFOLD EQUIPMENT-CONFIGURATION MAY VARY



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A One double gate Blowout preventer with lower pipe rams and upper blind rams, 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 BOPs.
- 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 Chokes must be adjustable Choke spool may be used between rams

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator BOPCO LP OGRID # 260737
 Well Name & # JF HARRISON PEO #1 Surface Type (F) (S) (P)
 Location: UL D, Sect 12 Township 25 s, RNG 30 e, Sub-surface Type (F) (S) (P)

A. Date C101 rec'd 1/1/11 C101 reviewed 1/1/11

B. 1. Check mark, Information is OK on Forms:

OGRID X BONDING PEO PROP CODE X WELL # X SIGNATURE X

2. Inactive Well list as of: 4/18/11 # wells 407 # Inactive wells 6

a. District Grant APD but see number of inactive wells:

No letter required ; Sent Letter to Operator , to Santa Fe *needs letter*

3. Additional Bonding as of: 4/18/11

a. District Denial because operator needs addition bonding:

No Letter required ; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ; Sent Letter to Operator , To Santa Fe

C. C102 YES , NO , Signature

1. Pool SWD; DEVONIAN, Code 96101

a. Dedicated acreage NA What Units

b. SUR. Location Standard : Non-Standard Location

c. Well shares acres: Yes , No , # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes , No X

a. Dedicated acreage , What Units

b. Bottomhole Location Standard , Non-Standard Bottomhole

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No PEO

D. Blowout Preventer Yes X, No

E. H2S Yes , No

F. C144 Pit Registration Yes , No

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No X, NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes X, NO ; SWD # 1259

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 1/1/11

API #30-0 15-04749

8. Reviewers KZ

01-05-2011
SWD-1259