

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Lease Serial No. NM 030456
2. Name of Operator BOPCO, L. P.		6. If Indian, Allottee or Tribe Name
3a. Address P. O. Box 2760 Midland, TX 79702	3b. Phone No. (include area code) 432-683-2277	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NWNW, ULD, 660' FNL, 660' FEL, Sec 12, T25S, R30E, Lat N32.15059, Long W103.840908		8. Well Name and No. J. F. Harrison Federal #1
		9. API Well No. 30-015-04749
		10. Field and Pool, or Exploratory Area Devonian
		11. County or Parish, State Eddy Co., NM

12. CHECK 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 Revised Re-entry Procedure
	<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	

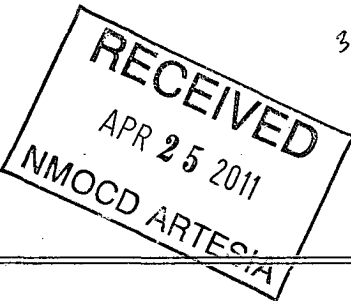
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths 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 recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. requests approval of the attached revised re-entry procedure. In original APD all work was to be done with rotary tools. In attached revised procedure all plugs down to 12,112' will be drilled out with a pulling unit with 300,000 lb derrick and casing strings tested as required. The pulling unit will then be rigged down and rotary tools rigged up with 5,000 psi BOP's. Next 7" casing will be installed, cemented, with cement circulated to surface per NMOCD injection permit. Final plug will be drilled out and well then deepened to TD of 17,205'.

Accepted for record

NMOCD RE

5/2/11

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

3/28/2011

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

Katy Holster

Title Administrative Assistant

Signature

[Signature]

Date

3/28/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date APR 19 2011

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT

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)

AMENDED PROCEDURE

J.F. HARRISON FEDERAL #1 CONVERT TO DEVONIAN SWD POKER LAKE EDDY COUNTY, NEW MEXICO

CURRENT STATUS: Well has been plugged and abandoned since 1954.

PLAN: Re-enter the J.F. Harrison Federal #1 wellbore to the Devonian formation. Drill out existing cement and magnesium bridge plugs. RIH with 7", 26#, L80 Buttress casing and tie back the existing 7" liner top at 9,850' to surface. Cement 7" casing to surface with 1,545 sacks of VersaCem class H cement. Drill down to TD at 16,705' and deepen wellbore an additional 500' leaving a new TD of 17,205'. Acid stimulate the open hole section with 25,000 gallons of 15% NEFE HCL Acid. Place well on disposal operation observing a maximum allowable surface injection pressure of 3,325 psi.

DETAIL:

1. Move in grader to clear location of brush and level 30' x 30' area around dry hole marker. Haul in caliche if necessary.
2. Move in backhoe, dig around dry hole marker and uncover 20" surface casing.
3. Install 6' x 6' cellar, re-nipple up to 20" surface casing and 13-3/8" casing using wellhead specialties casinghead and intermediate spool. Top of intermediate spool should be 6" below ground level.
4. Move in and complete leveling of location. Set new anchors. Move in and set two 500 bbl frac tanks and load with produced water.
5. MIRU pulling unit capable of 300,000 lb pull.
6. NU 13-5/8" 5,000 psi hydraulic BOP. (2-7/8" pipe and blind rams)
7. MIRU power swivel and reverse unit. Pick up 12-1/4" milltooth bit and one 4-3/4" drill collar on 2-7/8" workstring.
8. Drill out surface plug and continue in hole with 4-3/4" drill collars. Picking up a total of (20) drill collars.
9. Tag up on cement plug at 3,640'.
10. Close backside and pressure test to 1000 psi through bit nozzle.
11. After successful test drill out cement plug with produced water and tag up on 9-5/8" casing stub at 3,800'.
12. POOH and lay down 12-1/4" bit.

13. Pick up 6-1/2" smooth sided convex mill, pony collar, 8-1/2" watermelon mill and RBIH with (20) 4-3/4" drill collars and 2-7/8" workstring to casing stub at 3,800'.
14. RU power swivel and commence to drill out plug in 9-5/8" casing. TOOH, LD mills and pick up 8-1/2" milltooth bit. RIH and tag magnesium bridge plug at 6,230' with 2 sacks of cement on top. POOH with 8-1/2" milltooth bit.
15. RU Weatherford Wireline with 5k pack-off. RIH with Gauge Ring/Junk Catcher to 6,230'. POOH with Gauge Ring/Junk Catcher. PU 9-5/8" Casing Imaging Tool (CIT). RIH and log from 6,230' to 3,800'. POOH with CIT. PU 13-3/8" 60 arm Multi-Sensor Caliper (MSC) Tool. RIH and log from 3,800' to surface. POOH with MSC Tool. PU Sector Cement Bond Tool. RIH to 6,230' and log to surface.
16. RD Weatherford Wireline. Send field copies of logs to Midland for further review before proceeding to next step.
17. Close backside and test perfs (6,123'; 6,153' – 6,173'; 6,203') to 1000 psi. After successful test drill out plug at 6,230'.
18. Continue in hole to magnesium bridge plug at 9,560' with 2 sacks of cement on top.
19. Tag up on cement plug. Close backside and pressure test to 1000 psi through bit nozzle. (NOTE: In the event of an unsuccessful test run in with retrievable bridge plug and packer, assess location of leak, squeeze and re-test.)
20. Before drilling out cement and bridge plug at 9,560' RU H2S trailer and begin to monitor for H2S.
21. After successful test, drill out cement and bridge plug at 9,560'.
22. Continue in hole to top of 7" liner at 9,850'. Test to 1000 psi. Circulate clean and POOH with 8-1/2" milltooth bit BHA. (Note: If test is unsuccessful squeeze liner top).
23. RBIH with 5-7/8" milltooth bit drill out to CIBP at 12,112'. Test to 1000 psi. Chart 30 minute test to 500 psi. If unsuccessful TOOH for packer. Squeeze if necessary.
24. RU Renegade wireline. RIH with caliper log/Gamma Ray/CCL
25. Log 7" liner from 12,112' through liner top at 9,850'. Repeating liner section twice. Then log GR/CCL to surface. Identify both the length and ID of polished bore receptacle. RD Renegade wireline.
26. RIH with fluted tie back mill with cut-write on bottom and liner top polishing mill run in tandem and dress off polished bore receptacle. POOH with mills.
27. NU 7" x 13-5/8" B Section.
28. RD pulling unit.
29. RU Mcvay #5 drilling rig.

30. Install 5k Mcvay stock hydraulic BOP.(3-1/2" pipe & blind rams)

31. RU casing crew and RIH with 7", 26#, L80, Buttress casing, float collar, and seal bore assembly. (Place float collar 2 jts above seal bore assembly). Run Weatherford bow spring centralizers 1 every other joint starting in the 13-3/8" casing from 3,800 feet to surface.

7", 26#, L80		
Wt _{Air} = 256,100 lbs		Wt _{Bouy.} = 222,833 lbs
S.F. Collapse	S.F. Burst	S.F. Tension
1.01	2.07	2.29

*Buoyancy Factor of .8701 (8.5 ppg) fluid – Halliburton Red Book

32. Sting into Brown Liner top at 9,850' with seal assembly. Test 7" casing to 1,000 psi. Sting out of liner top and RU Halliburton. Before commencing cementing operations, notify BLM and NMOCD. Pump 2 annular volumes of PW (582 bbls = 1 annular volume) then a 20 bbl spacer of fresh water followed by 1,545 sacks VersaCem class H cement.

INTERVAL (ft.)	AMOUNT (sks)	TYPE	PPG	SLURRY VOLUME (bbls)	YIELD (cu.ft/sk)
9,850' to Surface	1,545	VersaCem – H	14.40	334	1.21

33. Flush with 20 bbl fresh water spacer followed by 333 bbls of 10 ppg produced water down to float collar. Sting back into 7" liner top with seal assembly. RD Halliburton.

34. WOC 24 hours.

35. Pick up 5-7/8" milltooth bit, boot basket, (20) 4-3/4" drill collars and RIH on 3-1/2" drill pipe.

36. Drill out float collar and cement down to CIBP at 12,112'.

37. Drill out CIBP and continue in hole to PBTD at 16,282'.

38. Shut in backside and test 7" casing and squeeze perms from 12,220' to 12,360' to 1000 psi. Chart 30 minute test to 500 psi.

39. Drill out plug back cement at 16,282 with 10 ppg produced water.

40. Deepen hole 500' drilling with 10 ppg produced water. Giving a new TD of 17,205'. (**Note:** Prepare to mud-up in the event of a kick).

41. Circulate hole clean with PW. While on bottom with bit spot 20 bbls of 15% NEFE HCL Acid across open hole section; 16,626' to 17,205'.

42. TOOH with 5-7/8" BHA laying down to 3,000', then stand back. PU RBP for 7". TIH and set RBP at 3,000'. TOOH laying down. Place valve on top. RD Mcvay #5 drilling rig.
43. MIRU pulling unit.
44. NU 5,000 psi hydraulic BOP.
45. RU Renegade Wireline with 5k pack-off and full lubricator.
46. RIH with GR and CCL tool and log open hole section from 17,205' to 16,626'. Continue logging through the 7" liner from 16,626' to 12,112'. (Tie log data back into previous log from 12,112' to surface.)
47. RD Renegade Wireline.
48. Pick up 2-7/8" workstring with a 10K Hornet packer and 2 joints of 2-7/8" tbg as tail pipe. RIH to 16,600' +/- and set packer.
49. Break down formation with 576 bbls of 15% NEFE HCL Acid observing a maximum surface treating pressure of 3,000 psi. Over displace acid by a full tubing capacity (78 bbls) with PW.
50. POOH with 2-7/8" workstring and packer.
51. Pick up 7" IPC and externally nickel plated 10k Baker Hornet injection packer and RIH on 4-1/2" flush joint IPC, 12.75#, L80, RTS-8 R2 sml Koppel injection tubing to 16,575. (IPC is NOV Tuboscope TK-15 with Temp. Rating up to 300 deg.)

4-1/2", 12.75#, L80 RTS-8		
Wt_{Air} = 211,331 lbs		Wt_{Bouy.} = 183,879 lbs
S.F. Collapse	S.F. Burst	S.F. Tension
1.02	1.41	1.57

**Buoyancy Factor of .8701 (8.5 ppg) fluid – Halliburton Red Book*

52. Reverse circulate 294 bbls of packer fluid in 2% KCL (8.5 ppg) around packer. Set packer and top fill additional packer fluid if necessary. Test to 500 psi for 30 minutes. Record test on chart. Notify Artesia NMOCD of intent to place well on injection. Have NMOCD witness MIT.
53. ND BOP and NU wellhead.
54. Place well on injection observing a maximum surface injection pressure of 1,500 psi until further notified.
55. A diagnostics and evaluation procedure will follow.

End of Procedure.

Submitted By: Martyn Robertson

Approved By: _____

Date: March 11, 2011

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"

Intermediate Csg.

Size: 13 3/8"
 Wt: 61/72#
 Grd: J-55/N80
 Set @: 3971'
 Sxs Cmt: 6400
 Circ: 2000 sks
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Csg.

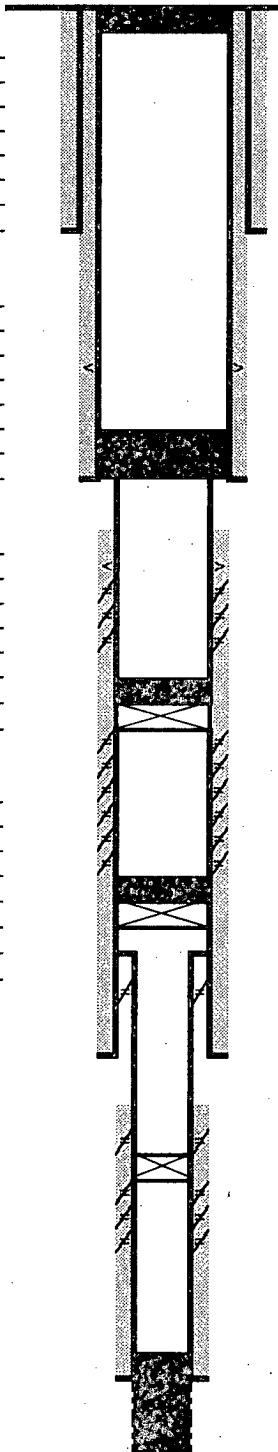
Size: 9 5/8"
 Wt: 40/47#
 Grd: N-80
 Set @: 10,073'
 Sxs Cmt: 3507
 Circ: None
 TOC: 4560' (Temp Log)
 Hole Size: 12 1/4"

Production Liner

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"



20 sxs cmt

20" @ 557'

DV Tool @ 2792'

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

TOC 4560'
 DV Tool @ 6008'
 Perf & Sqz @ 6,123'
 Perf & Sqz @ 6,153' - 6,173'
 Perf & Sqz @ 6,203'

2 sxs cmt cap
 9-5/8" Magnesium bridge plug @ 6230'
 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'

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'

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

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

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