

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

MAR 03 2009

**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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
UL K, SEC 19, T20S, R21E, 1656' FSL, 1972' FWL  
31

5. Lease Serial No.  
MLC070220

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NMNM68294H

8. Well Name and No.  
Big Eddy Unit #10

9. API Well No.  
30-015-10785

10. Field and Pool, or Exploratory Area  
Big Eddy (Strawn)

11. County or Parish, State  
Eddy  
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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 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 permission to plug and abandon the subject wellbore as follows:

- MIRU PU & plugging equipment. Set open top steel pit for plugging. ND WH & NU 3,000 psi manual BOP for 2-3/8" tbg.
- Test 2-3/8" x 5-1/2" annulus to check tubing integrity. Circulate w/ 9.5 ppg mud and pull tbg.
- POOH 51 ft of 2-3/8" tubing.
- Spot 20 SX Class H Cmt on CIBP. 25 SX MIN.
- Spot 30 SX Class H 10340' - 10560'.
- Spot 65 SX Class H 6960' - 7140' PERF SQZ. WOC Tag
- Spot 120 SX Class C 3675' - 4000' PERF SQZ TAG.
- RU Wireline and freepoint 5-1/2". Cut and pull same from +/- 3200'.
- Spot 55 SX Class C 3125' - 3275' TAG.
- Spot 50 SX Class C 2525' - 2655'.
- Spot 75 SX Class C 2065' - 2265' TAG.
- Spot 40 SX Class C 965' - 1075'. WOC Tag
- Spot 55 SX Class C 690' - 840' TAG.
- Spot 40 SX Class C 0' - 100'.
- Set P&A marker and remediate location.
- Use steel tank and haul all fluids.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Valerie Truax

Title Regulatory Admin Assistant

Signature

*Valerie Truax*

Date 02/20/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

FEB 28 2009

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

JAMES A. AMOS  
SUPERVISOR-FPS

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)

3/4/09

*ak*

# PROPOSED PLUG AND ABANDON WELLBORE DIAGRAM

Lease: **BIG EDDY UNIT** Well No.: **10**  
 Field: **BIG EDDY (Strawn)** TA  
 Location: **1656' FSL, 1972' FWL, SEC 19, T20S, R31E**  
 County: **Eddy** St: **NM** API: **30-015-10785**

## Surface Csg.

Size: 16  
 Wt: 65  
 Grd: H40  
 Set @: 762  
 Sxs cmt: 720  
 Circ: Y  
 TOC: Surf  
 Hole Size: 20

## Intermediate Csg.

Size: 11 3/4  
 Wt: 42/47  
 Grd: H40/J55  
 Set @: 2165  
 Sxs Cmt: 950  
 Circ: Y  
 TOC: Surf  
 Hole Size: 13 3/4

## Intermediate Csg.

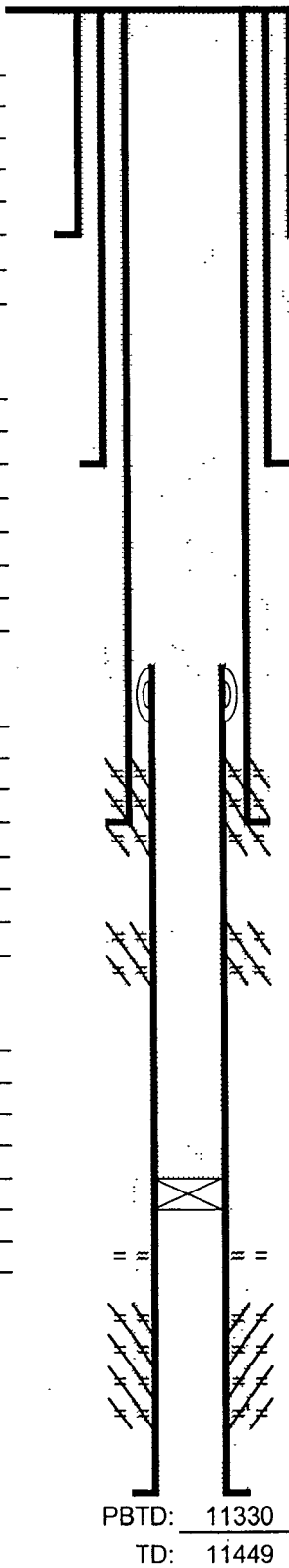
Size: 8 5/8  
 Wt: 32  
 Grd: J55  
 Set @: 3935  
 Sxs Cmt: 1450  
 Circ: N  
 TOC: Surf (perf'd)  
 Hole Size: 10 5/8

## Production Csg.

Size: 5 1/2  
 Wt: 15.5/20  
 Grd: N80/J55  
 Set @: 11449  
 Sxs Cmt: 350  
 Circ: N  
 TOC: 9832  
 Hole Size: 7 7/8

## Tubing

1 jt 2 3/8, 4.7, N80



## PLUG #10 40 SX Class C 0' - 100'

0	KB	KB: 3549
20	GL	GL: 3529
51	EOT	Spud Date: 8/28/1966
		Compl. Date: 10/11/1966
Anhydrate		608'
762	16	csg

## PLUG #9 55 SX Class C 690' - 840' TAG

## PLUG #8 40 SX Class C 965' - 1075'

Salt Top	1020'
1801	Perf for cmt
Salt Bottom	2142'
2165	11 3/4 csg

## PLUG #7 75 SX Class C 2065' - 2265' TAG

## PLUG #6 50 SX Class C 2525' - 2655'

Cap Reef	2590'
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## PLUG #5 55 SX Class C 3125' - 3275' TAG

Cut Casing @ +/- 3200'	
3202	Casing Bowl
	Sqzd w/ 15 sxs
Delaware Sands	3752'
3935	8 5/8 csg

## PLUG #4 120 SX Class C 3675' - 4000' PERF SQZ TAG

## PLUG #3 65 SX Class H 6960' - 7140' PERF SQZ

7033	Bone Spring
9832	TOC

## PLUG #2 30 SX Class H 10340' - 10560'

10452	Wolfcamp
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## PLUG #1 SPOT 20 SX Class H CMT ON CIBP

11330	CIBP
11359-11375 ( 1 JSPF - 06/83)	

11364	Top Perf - 03/82	Sqzd 06/83
11372	Strawn	Top Perf - 10/66 w/ 200 sxs
11396	Btm Perf - 03/82	
11399	Btm Perf - 10/66	
11407	PBTD	
11449	5 1/2 csg	

Updated: 2/12/2009

Author: CCC/arc

Engr: CCC

## WELL HISTORY

**WELL NAME:** Big Eddy Unit #10

**API:** 30-015-10785

**FIELD NAME:** Big Eddy (Strawn)

**LOCATION:** 1656' FSL, 1972' FWL, SEC 19, T20S, R31E  
Eddy County, NM

**TD:** 11449

3549' KB

**PBTD:** 11330', Orig. 11407'

3529' GL

**SPUD DATE:** 08/28/1966

**COMP DATE:** 10/11/1966

CASING:	Size	Wt	Grd	Set Depth	Sxs	Class	TOC	Hole	Hole Depth
	16	65	H-40	762	720	Incor	Surf	20	762
	11 ¾	42 47	J-55 H-40	2165	950	Incor	Surf	13 ¾	2165
	8 5/8	32	J-55	3935	1050 400	Neat	Surf by perf	10 5/8	3935
	5 ½	15.5 20	N-80 J-55	11449	350	Slo- Set	?	7 7/8	11449
<b>LINER:</b>									
<b>OPEN HOLE:</b>									
<b>TUBING:</b>	1 jt 2 3/8", 4.7, N-80 – TA'd								

**DST:**

### CORES & LOGS:

DATE	LOG	COMPANY	TOP	BOTTOM

### FORMATION TOPS:

Anhydrate	608
Salt	1020
Cap Reef	2590
Delaware Sand	3752
Bone Spring	7033
Wolfcamp	10452
Strawn	11330

### PRESSURE SURVEY:

10/05/1978

Gradient & BHP Survey; Kuykendall.

**BIG EDDY UNIT #10**  
**Well History**

**DRILLING:**

Cmt 16" Csg w/ 720 sxs Incor. CIRC.  
Cmt 11 3/4" Csg w/ 800 sxs Incor + 150 sxs Neat. CIRC.  
Cmt 8 5/8" Csg: Stage 1: 400sxs Incor, Stage 2: thru DVTool @ 2624, 650 sxs Incor. DVTool closed while cementing leaving aprox 500' cmt in csg.  
Drill & Clean out cmt. TOC = 1900 by TS.  
8 5/8 Csg Perfed @ 1801' w/ 4 shots, cmt w/ 400 sxs. CIRC.  
Lynes Pkr @ 2624.  
-- reported on sundry notice, 10-14-1966 -- (8 5/8" csg was perf'd @ 1801 w/ 4 shots. Cemented w/ 400sxs w/ 2% cal. Cmt CIRC.)  
Cmt 5 1/2" csg w/ 350 sxs Slo-Set.

**INITIAL COMPLETION:**

10/1966                      Perfs: 11372-11399, 2 JSPF, Acidize w/ 1000 gals acid.

**WORKOVERS:**

10/16/1967                      Hot oil well w/ 50 bbls lease crude. Swab well.  
03/04/1975                      Swab 30 bbls oil. Well Flowing. NOTE: Tight spot @ 7000'.  
10/26/1977                      Hole in flowline. Repair flowline.  
09/19/1978-09/22/1978                      Install Camco plunger lift. Swab well, FL 10000'. 20 BO 30 BW.  
10/05/1978                      Gradient & BHP Survey; Kuykendall.  
12/15/1979                      Swab well, FL 5000'. Well kicked off after 8 runs. 40 BO 40 BW.  
08/05/1981                      Swab well, FL 7150'. Well kicked off after 6 runs. Tight spot in tbg @ 4100'. 10 BO 20 BW.  
10/14/1981                      Swab well, FL 8000'. Well kicked off after 4 runs. 10 BO 17 BW.  
10/28/1981                      Swab well, FL 7400'. Well kicked off after 5 runs. 2 BO 26 BW.  
11/15/1981                      Swab well, FL 7200'. Well kicked off after 4 runs. 8 BO 30 BW.

**Perf, Acidize, Workover**

03/24/1982-08/03/1982

Fished out all tbg & Pkr. Ran csg caliper. Found 5 1/2" csg parted @ 3202'. Pull 5-1/2" csg. RIH Bowen Model 2215, 5 1/2: **Csg Bowl** on 5 1/2" csg & set @ 3202. Run GR-CNL log.  
**Perf** 11364-11396 w/ 1 JSPF. **Spot** 300 gal 20% MSR-100 11364-11396'. **Acidize** 11364-11396' w/ 5000 gal 20% MSR-100. Max press - 860psi, Avg press - 450psi, final press - 700psi. Swab well, rec all. Test for several days. 113 BO 60 BW 721 MCF @ 450# FTP.  
Pkr set @ 10981', swabbed well for several days.  
**Acidize** w/ 2000gal 20% HCL + 750 SCF N2/bbl. Treat 1200psi @ 4.7 bpm. Swabbed well for several days. Open well to battery, 18/64 choke. Test for several days.  
Before workover: 30 BO 46 BW 208 MCFG TP 150#.  
After workover: 25 BO 75 BW 420 MCFG TP 150#.

02/19/1983                      Water Sample.

**BIG EDDY UNIT #10**  
**Well History**

**Acidize, Perf, Workover**

06/01/1983-06/28/1983

Set cmt retainer @ 11276'. Sqz Strawn perms @ 11364-11396 w/ 200sxs Cls "H" cmt. Set cmt retainer @ 3119'(Possible csg leak @ 3202'). Sqz csg bowl w/ 15 sxs Cls "C". Drilled out retainer @ 3119', circ hole clean. Tag TOC @ 11220' & drill thru cmt & retainer @ 11276', circ hole clean. Spot 50 gal 10% acetic acid 11331-11380'. **Perf** 11359-11375' w/ 1 shot/ft (17 shots), set pkr @ 11315'. Swab. **Acidize** 11359-11375' w/ 70bbls 20% HCL. Release pkr & POH. Spot 11359-11375' w/ 50gal 20% HCL. Perf 11364-11375' 1shot/ft (11 shots). Set Pkr @ 11315'. **Acidize** 11364-11375' w/ 50gal 20% HCL. Run GR-CCL log. Swab well. **Acidize** 11359-11375' w/ 4000gal 20% HCL. ISIP 750psi; 5min 50psi; 10min 425psi; 15min 400psi. Swab well. Wait to install artificial lift equip.

**Install Pump**

08/17/1983-11/02/1983

Install American 640 PU, w/ rods & 2" Pump. POP & test for several days. 40BOPD 214 BWPD 181 MCFGPD. Gas currently flared.

11/09/1983-12/27/1983

Pull out tbg, rods, & pmp. Set BP @ 10224'. Swab well. Move BP 11310'. Swab well. Decided no csg leak, pulled pkr & BP. Change tbg, POP. Ran tests for several days. 20 BOPD 140 BWPD 202 MCFGPD.

01/06/1984

Change pmp

03/26/1984

Change rods & tbg, well temp abandoned.

12/27/1989

PU CIBP, Set @ 11330', RIH on tbg, T&A well.

05/05/1998

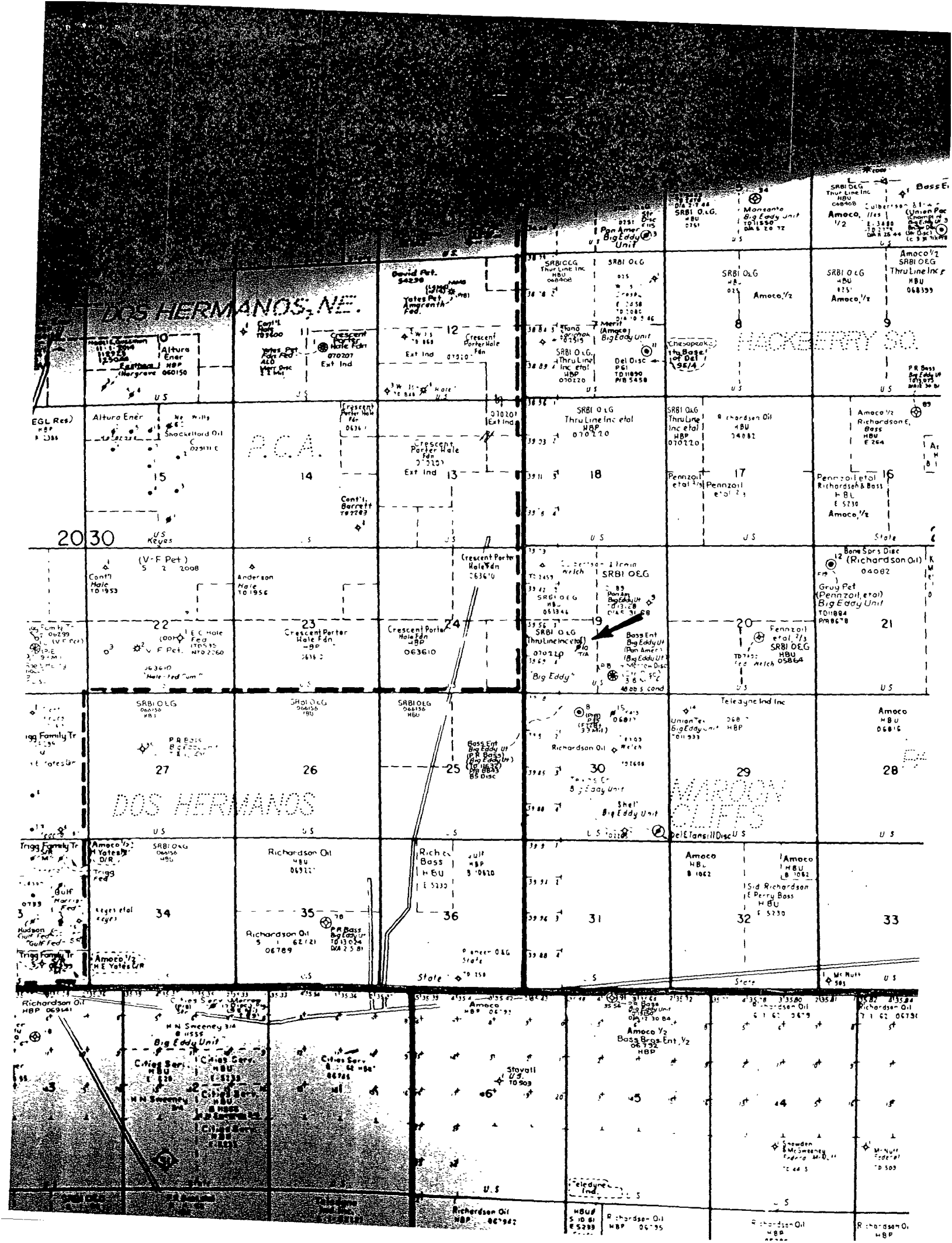
Test csg f/ leaks (for 5 year csg integrity test for TA).

06/18/2002

MIT. OK.

02/17/2005

MIT. OK.



**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Permanent Abandonment of Federal Wells**  
**Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Dry Hole Marker:** All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.