

OCD-ARTESIA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## 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.

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

5. Lease Serial No

LC069142

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No

BASS 10 FEDERAL #1

9. API Well No.

30-015-24813

10. Field and Pool, or Exploratory Area  
INDIAN DRAW (DELAWARE)11. County or Parish, State  
EDDY  
NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

JUL 17 2007

2. Name of Operator  
BEPCO, L.P.

OCD-ARTESIA

3a. Address  
P.O. BOX 2760 MIDLAND TX 79702-27603b. Phone No (include area code)  
(432)683-22774. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SECTION 10, T22S, R28E, NESW, 1980 FSL, 2130 FEL

## 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 recomplate 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 recomplate 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.)

## MIRU Plugging Equipment and PU.

- Set CIBP @ 3430' and Circulate wellbore w/10 ppg salt gel mud.
  - Spot 30 sxs Class "C" neat cement from 3141 to 3430'.
  - Perf & sqz. csg. w/70 sxs Class "C" neat cement from 2114-2595' (B/Salt and Delaware) and TAG.
  - Perf & sqz. csg. w/100 sxs Class "C" neat cement from 232-452' (T/Salt and 8-5/8" Shoe) and TAG.
  - Perf & sqz. csg. w/30 sxs Class "C" neat cement from 0 to 100'.
- Install dry hole marker.  
BEPCO will use steel pits and haul fluids each day.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

APPROVED

JUL 14 2007

JAMES A. AMOS  
SUPERVISOR-EPS

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

ANN MOORE

Title PRODUCTION CLERK

Signature

Date 07/09/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE ACCEPTED FOR RECORD

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

Date

Office

JUL 18 2007

Gerry Guye, Deputy Field Inspector  
MOC District IF ARTESIA

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 for any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

# PLUG AND ABANDON DIAGRAM

LEASE: BASS 10 FEDERAL WELL #: 1

FIELD: INDIAN DRAW EAST (DELAWARE)

LOCATION: 1980' FSL & 2130' FEL, T22S, R28E, SEC 10

COUNTY: EDDY ST: TX API: 30-015-24813

KB: 3142'  
GL: 3129'  
SPUD DATE: 5/30/1984  
COMP DATE: 7/9/1984

## SURFACE CASING

SIZE: 8-5/8"  
WT: 24#  
GRD: K55  
CSA: 402'  
SX: 150 C  
CIRC: YES  
TOC: SURF  
HOLE SIZE: 12-1/4" 0-402'

## PRODUCTION CASING

SIZE: 5-1/2"  
WT: 14#  
GRD: K55  
CSA: 4165'  
SX: 400 H  
CIRC: NO  
TOC: 2300' (EST)  
HOLE SIZE 7-7/8" 402-4165'

## TUBING

(118 jts) 2-3/8" J-55 TBG  
SN

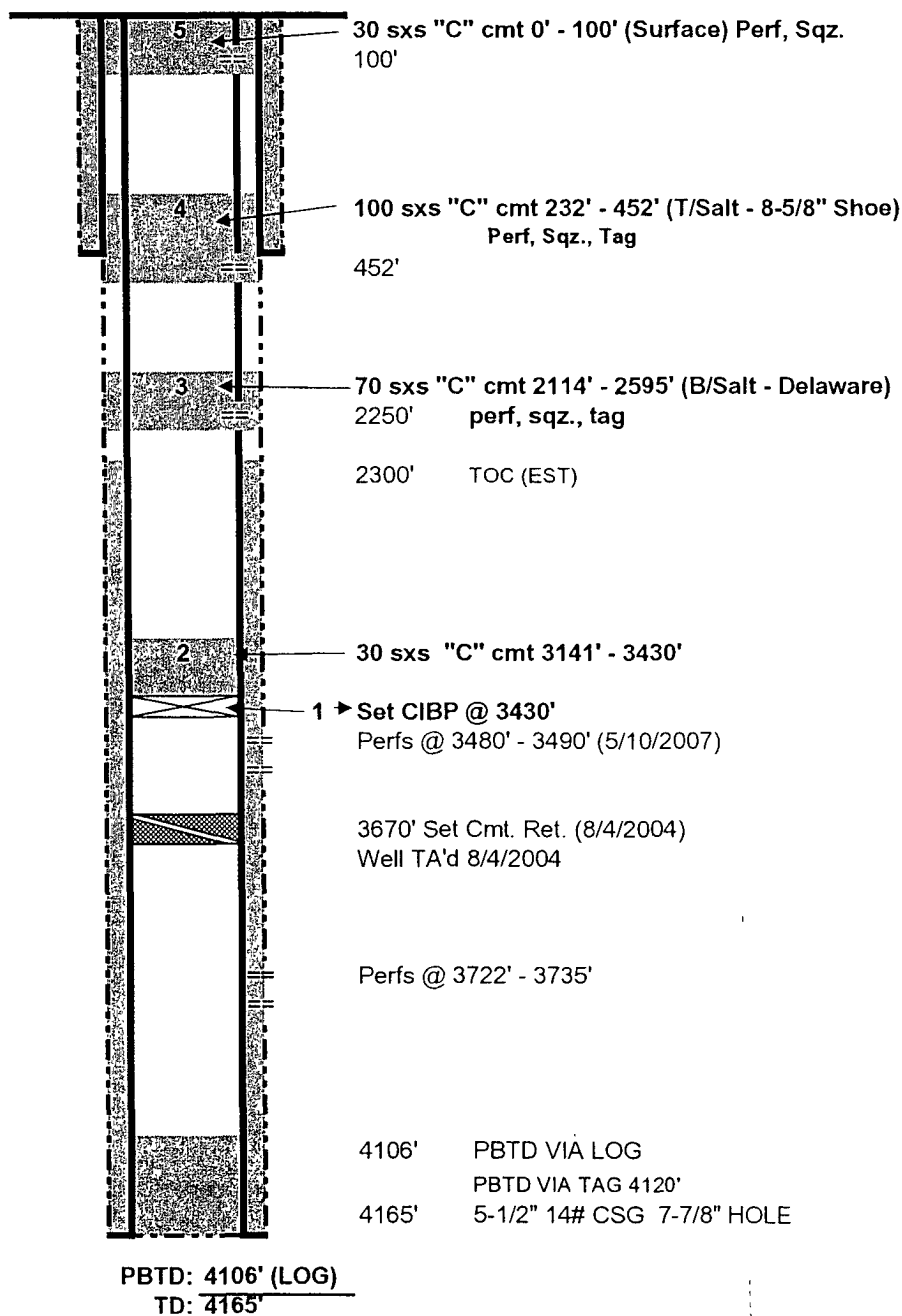
## PERFORATION DATA

5/07 Perf 3480'-3490' 10' 20 holes  
Acidize w/ 1000 gal Acidtol 7 1/2% HCL  
2% KCL ISIP 902

6/84 PERF 3722-36' 1kg 15% HCl W/ADDS+12  
7/8" 1 1 SPC RCN HT BALL SEALERS  
9/85 F/20kg 70 QLT Y FOAM W/N2+6kg LQD  
(2 4kg K46 METH+3 6kg 2% KCL FW)

## ZONES

T/Salt 332'  
B/Salt 2,304'  
T/Delaware 2,595'  
T/Cherry Canyon 4,086'



Updated: 7/2/2007  
Author: WHF  
Engr: CCC

# CURRENT WELLBORE DIAGRAM

LEASE: **BASS 10 FEDERAL** WELL #: **1**  
FIELD: INDIAN DRAW EAST (DELAWARE)  
LOCATION: 1980' FSL & 2130' FEL, T22S, R28E, SEC 10  
COUNTY: **EDDY** ST: **TX** API: **30-015-24813**

KB: 3142'  
GL: 3129'  
SPUD DATE: 5/30/1984  
COMP DATE: 7/9/1984

## SURFACE CASING

SIZE 8-5/8"  
WT: 24#  
GRD: K55  
CSA: 402'  
SX 150 C  
CIRC: YES  
TOC: SURF  
HOLE SIZE: 12-1/4" 0-402'

## PRODUCTION CASING

SIZE 5-1/2"  
WT: 14#  
GRD: K55  
CSA: 4165'  
SX 400 H  
CIRC: NO  
TOC: 2300' (EST)  
HOLE SIZE: 7-7/8" 402-4165'

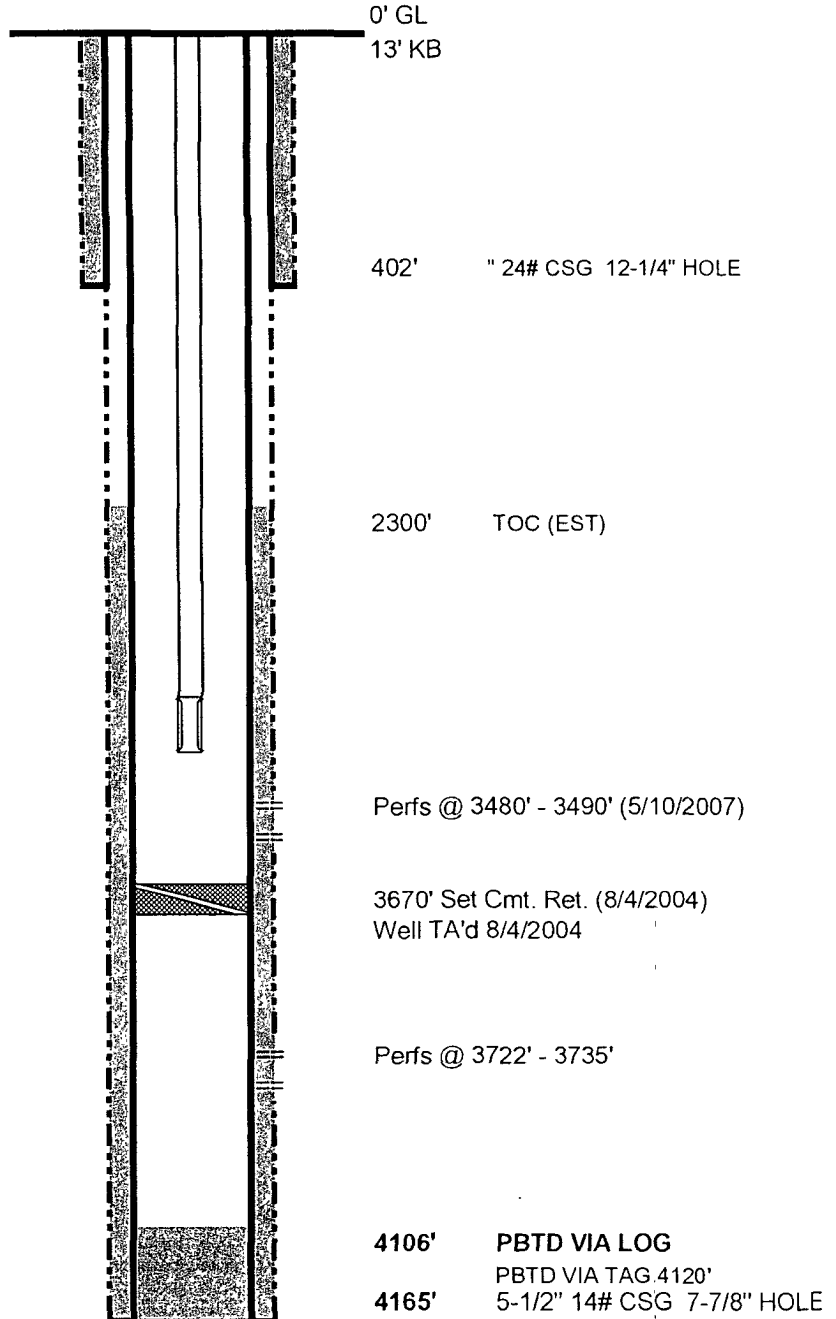
## TUBING

(118 jts) 2-3/8" J-55 TBG  
SN

## PERFORATION DATA

5/07 Perf 3480'-3490' 10' 20 holes  
Acidize w/ 1000 gal Acidtol 7 1/2% HCL  
2% KCL ISIP 902

6/84 PERF 3722-36' 1kg 15% HCl W/ADDS+12 7/8"  
1.1 SPC RCN HT BALL SEALERS  
9/85 F/20kg 70 QLTY FOAM W/N2+6kg LQD  
(2.4kg K46 METH+3 6kg 2% KCL FW)



PBTD: 4106' (LOG)  
TD: 4165'

Updated: 5/7/2007  
Author: cdp  
Engr: CCC

**WELL HISTORY**  
**BASS 10 FEDERAL #1**  
**INDIAN DRAW EAST (DELAWARE) FIELD**  
 UPDATED 3/9/2007 (SND)

**LOCATION:** 1980' FSL & 2130' FEL, T22S, R28E, SEC 10  
 EDDY COUNTY, NM

**API #:** 30-015-24813

**ELEV:** GL: 3129' DF: 3141' KB: 3142'

**SPUD DATE:** 05/30/84

**COMP DATE:** 07/09/84

**ORIG TD:** 4165'

**ORIG PBTD:** 4120' (4106' via Log)

**CASING:**

DATE	SIZE	WT	GRD	CSA	SX	CLASS	TOC	HOLE SIZE	HOLE DEPTH
05/30/84	8-5/8"	24#	K-55	402'	150	PCSTR LITE CLS C	CIRC	12-1/4"	402'
06/10/84	5-1/2"	14#	K-55	4165'	400	CLS H	2300' (EST)	7-7/8"	4165'

**LINER:**

DATE	SIZE	WT	GRD	CSA	SX	CLASS	TOC	HOLE SIZE	HOLE DEPTH

**OPEN HOLE:**

DATE	HOLE SIZE	HOLE DEPTH
NONE		

**TUBING:** SEE DATA SHEET

**DST:** NONE

**CORES:** NONE

**LOGS:**

DATE	LOG	COMPANY	DEPTH	LOGGERS TD	RF
05/29/84	DRILLERS LOG		0-4150'	4150'	
06/01/84	GEOLOGICAL	MORCO	2300-4150'	4147'	
06/08/84	NGT	SCHLUMBERGER	2150-4112'	4147'	KB
06/08/84	EPT	SCHLUMBERGER	2150-4126'	4147'	KB
06/08/84	DLL	SCHLUMBERGER	2150-4132'	4147'	KB
06/08/84	CNL	SCHLUMBERGER	0-4144'	4147'	KB
06/08/84	CNL/LDT/EPT CROSSPLOT	SCHLUMBERGER	2150-4100'	4147'	KB
06/08/84	PROCESSED LOG	SCHLUMBERGER	2550-4124'		
06/08/84	BHCN/DPL	GREAT GUNS	3600-4143'	4150'	KB
06/21/84	GR CORRELATION	GREAT GUNS	2500-4100'	4106'	

### INITIAL COMPLETION

06/20/84-07/09/84

RIH w/4-3/4" bit, tag **PBTD @ 4120'**. PUH to 3746' & circ w/77 bbls 2% KCl FW. Spot 2 bbls Acetic Acid across 3722-3736'. Dspl w/14 bbls 2% KCl FW.

06/21/84

**PERF 3722-36' W/1 SPF/2' 0°PHSG (8 SHOTS)**. RIH w/pkr & SN. Set pkr @ 3666'. Press 500#--OK. **Acidize** perms w/1000 gls 15% HCl w/1gl I-10 B, 5gl XR2L, 1gl ASP425. Press tbg 2800# & form broke f/2800#-2050# @ 3.4 BPM. W/7 bbls acid in tbg communicated to annulus. DI. Drop SV & test tbg 5000#--OK. POH w/SV. Reset pkr @ 3661'. Press tbg & form 2000# & estbls rate of 3.4 BPM w/o communication to annulus. Did not press annulus, just monitored. Cont' acid job. Drop 12 7/8" 1.1 spg RCN HT ballsealers & ran 1 bll/1.6 bbls acid. Min Press 1800#, Max Press 2500#, Avg Press 2000#. Inj rate 3.8 BPM on acid & 5.1 BPM on flush. Flush w/14.4 bbls 2% KCl FW w/1gl Aqua-flow. 4 good ball actions, an increase of 100#. ISDP 1100#, 5 min 600#, 10 min 500#, 15 min 400#. Swab, IFL @ surf. Swab tbg dry, rec 14 bbls 2% KCl w/trace of oil & some gas. SITP 475# f/15 hrs. Open to test tank: (F) 20 BF (60% oil+40% wtr) in 1.5 hrs & died. Swab f/1500' & KO, flwd to tank 54 BO+14.8 BW in 6 hrs on WO chk. SI to switch test tanks. SITP f/1 hr, 360#. Well is fairly gassy. SITP 450# f/14 hrs. Flw to tak w/50# FTP on 3/4" chk, rec 69 BO+1.5 BW in 6 hrs. SI to install btry equip. IP: 276 BO+8 BW, 304 GOR, 42.3 Grvty. 07/09 24H (F) 175 BO+0 BW+102 MCF, GOR 583.

### WORKOVER SUMMARY:

12/1984	PLACE ON PUMP
09/1985	FRAC
10/1988	CLEAN OUT FILL
07/2004	TA WELL

### WORKOVERS

#### PLACE ON PUMP: 12/17/84

NOTE: Only information in file was subsurface. LD pkr @ 3661'. Set SN @ 2752' & TAC @ 3753', RIH w/rods & pump.

#### FRAC: 09/16/85-09/25/85

POOH w/prod equip. Set pkr @ 3660'. **Frac treat** perms 3722-26' w/20,000 gls 70 Quality Foam w/N2 & 6000 gls lq (2400 gls K46 methanol & 3600 gls 2% KCl FW). Frac contained 40# J-347, 5# J-297, 2.5 GPT AFTF 10, 2 GPT L-55, 1 GPT F75 N, 1/2 GPT M76 & 1/4 GPT D-47. 9000# 20-40 sand+21,000# 10-20 sand. ISIP 1500#. Ttl N2 344,000 SCF. SI f/1 hr. Open to pit & flwd N2 and sml mist wtr & died. Swab & KO. Flwd 1hr & died. SI because gel had not broken & contained little sand. Swab, IFL @ 600'. Flwg sltly behind swab runs. Rec 30 BO+70 BW. Well gassy. Unseat pkr @ 3650' & began flwg thru tbg. LD pkr. RIH & tag fill @ 3740'. Attempt circ hole. Pmp 90 bbls 2% KCl FW. Would not circ. Set AC @ 3725' & SN @ 3722'. POP. BWO: 48 BO+2 BW. AWO: 96 BW+ 42 BW.

#### CLEAN OUT FILL: 10/10/88-10/18/88

POOH w/prod equip. RIH w/3-1/8" bailer. Run valve @ 300' above shoe. Tag fill @ 3733'. Work f/3733'-53' thru bridge. RIH to 3890'. Didn't tag any more fill. POOH w/bailer. (2 jts full frac sand). RIH w/prod equip. Set TAC @ 3631' & SN @ 3753'. **Pump chg.** 24H (P) 19 BO + 38 BW.

#### TA WELL: 07/28/04-07/29/04

**Perfs 3722-35' (Delaware)** POH w/ rods & pump. LD (148) 3/4" rods & pump. POH w/ 2-3/8" J-55 tbg. LD TAC. RIH w/ cmt retainer on WL. **Set cmt ret @ 3670'**. POH w/ WL. RIH w/ SN on 116 jts 2-3/8" tbg. Rvrs circ w/ 120 bbls pkr fluid (90 bbls cap). Circ fluid dn flowline to btry. **Well is TA'D**

**INTEGRITY TEST: 03/07/2007**

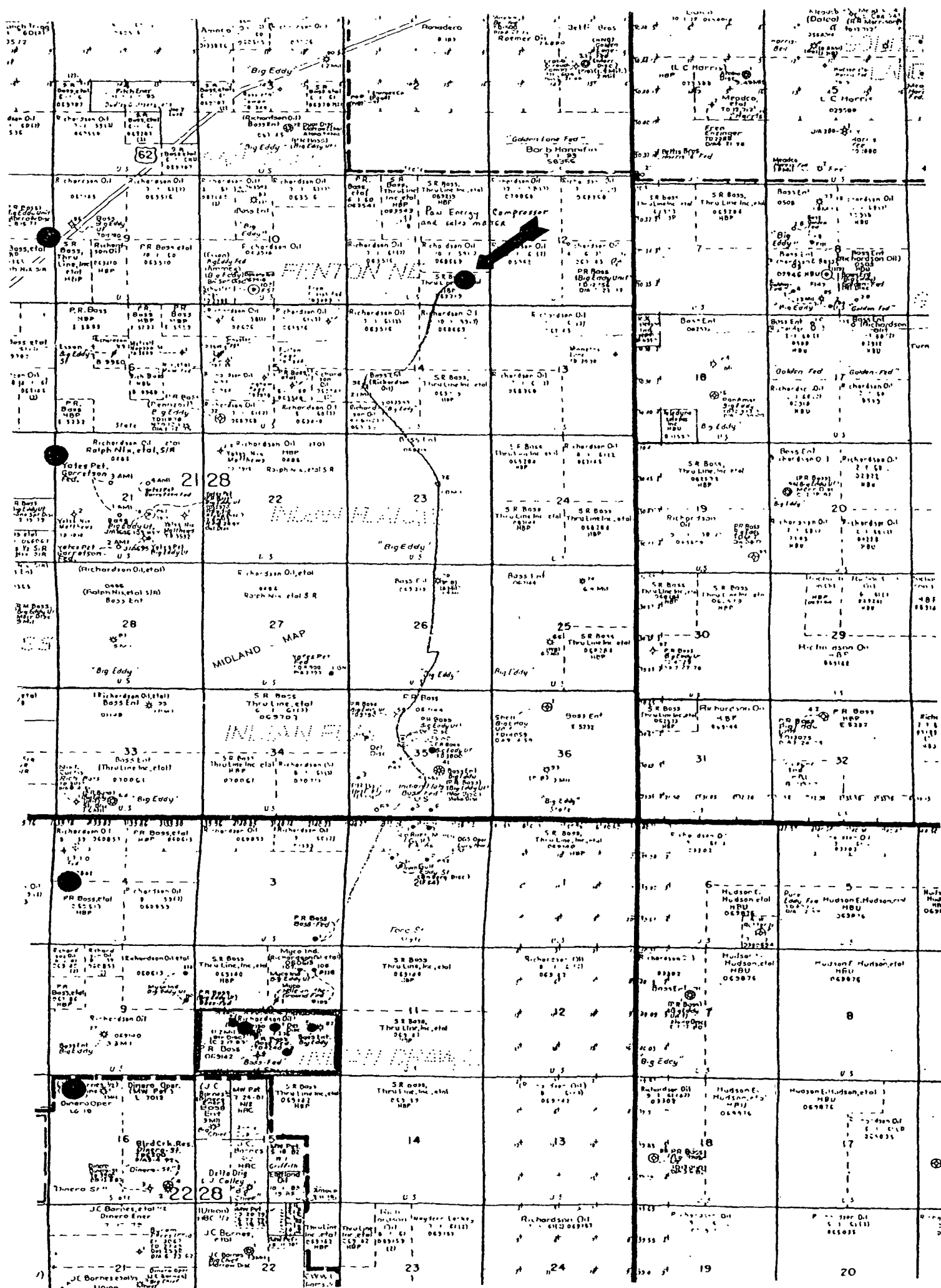
RU kill truck. Ran mechanical integrity test to 400 psi for 30 min, ok

**FAILURE SUMMARY:**

07/18/84      ARC BHP.  
05/22/86      **Pump chg.**  
01/29/87      **Tbg leak.**  
09/15/88      Hot oil well.  
08/30/93      **Belts** burned off motor & clamp jumped off bridle. Rplc bad belts. Longstroke. Good strg pump action. Depth None, longstroke pump.  
07/21/99      **Pump parted @** pull rod. Set exchg TAC @ 3625' w/SN @ 3755'. Recond pump. Depth 3754', paraffin.  
11/09/99      **Tbg leak** 114<sup>th</sup> FS. Recond TAC. Depth 3568, rod wear.  
03/14/00      Rpr bad **tail bearing** & rplc bad wrist pin. Depth 0', age.  
08/11/00      Rplc **sddl brg** on Cabot 160 pmpg unit. Depth 0', worn out.  
08/15/00      Rpr **sqkg sddl brg & rplc tail brg**. Depth 0', bad tail bearing.  
02/06/01      FYI Pecos Valley FG installed solid FG top on 210 FG tank.  
07/27/02      SI.  
08/04/04      Pressure test csg & cmt retainer to 500 psi. Run 30 min MIT – OK.  
09/09/04      MIT to 500 psi for 30 mins -- OK. Test witnessed.

**RTP ADD PERFS**

05/10/2007      **Perfs: 3480'-3490' (Delaware) Perforated from 3,480' to 3,490' (10', 20 holes) 2 spf, 0 degree phasing, 23 gm charge.** POOH w/ wireline. All shots fired. RD wireline. PU and RIH w/ Baker 5-1/2" full bore (tension set) packer & 113 jts 2-3/8" tbg. Set packer @ 3,470' (10' above perfs). MIRU Cudd Energy Services. Opened bypass on packer & broke circ w/ 2 bbls 2% KCL water. Spotted acid to EOT. Closed bypass. Broke down new Delaware perfs w/ 3,000 psi. Put away 1,000 gals 9010 Acidtol (10% toluene based 7 1/2% HCl acid) @ 4 to 5.4 bpm w/ 2,800 psi TP. Over displaced w/ 2 bbls 2% KCl water. ISIP- 902 psi, 5 min- 704 psi, 10 min- 522 psi, 15 min-391 psi.  
05/11/2007      Swabbed well (26 runs to recover 71 bbls of fluid).  
05/14/2007      Made a total of 5 swab runs to recover 18 bbls fluid. Returns were same as before. BOL 48. Contacted Midland on swab report. Released Baker full-bore pkr and POOH. LD pkr. RBIH w/ 2-3/8" standard SN on 118 jts 2-3/8" J-55 tbg. Preparing P&A procedure.



**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**505-234-5972**

**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 505-627-0272; Eddy County, call 505-234-5972; Lea County, call 505-393-3612.

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 50 feet 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 class "C", for up to 7,500 feet of depth, mixed at 14.8 lbs/gal with 6.3 gallons of fresh water per sack or class "H", for deeper than 7,500 feet plugs, mixed at 16.4 lbs/gal with 4.3 gallons of fresh water per sack.

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.





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, NM 88220

**Interim Reclamation Procedures for Permanently Abandoned Federal Wells**

1. After Subsequent Report of Abandonment, Form 3160-5, is filed and approved by the BLM the surface protection specialist (SPS) will conduct a surface inspection of the abandonment. The SPS will establish the reclamation requirements the operator will need to complete. **DO NOT START RECLAMATION UNTIL THE SPS HAS INSPECTED THE LOCATION.**
2. The reclamation requirements will be given to an environmental protection specialist (EPS). The EPS will issue the operator a Notice of Written Order outlining the reclamation requirements. **DO NOT START RECLAMATION UNTIL A NOTICE OF WRITTEN ORDER FOR RECLAMATION HAS BEEN RECEIVED.** The EPS will be responsible for all further abandonment work and inspections.
3. **Notification: CONTACT THE EPS 3 DAYS PRIOR TO RECLAMATION WORK.** This notification gives the EPS an opportunity to discuss by phone or on location the reclamation requirements, any special concerns and the timeframes. It also allows the EPS an opportunity to witness various aspects of the reclamation work to determine if an adequate seedbed has been prepared and all reclamation requirements have been completed. **CONTACT THE EPS AT LEAST 3 DAYS PRIOR TO SEEDING.** This allows the EPS to witness the seeding operation to make sure the location is seeded properly and with the appropriate seed mixture. **DO NOT START RECLAMATION UNTIL THE EPS HAS BEEN NOTIFIED.**
4. After reclamation work has been completed, submit the **I & E copy of the Notice of Written Order** to the BLM. It will need to be signed by a company representative and dated. Also submit one original and five copies of the **Final Abandonment Notice, Form 3160-5.** The report should state that all reclamation work has been completed, and the location is ready for a final abandonment inspection.
5. The BLM will continue to monitor the location to ensure the location vegetates successfully, and salts from the reserve pit do not leach to the surface. The location will be monitored until such time as vegetation (20%) is established evenly across the location (including the reserve pit and access road). Once EPS determines that vegetation (20%) is evenly spread across the location, final abandonment will be authorized.

If there are any questions please feel free to contact any of the following:

Jim Amos  
Supervisory Environmental Protection Specialist  
(505) 234-5909

Barry Hunt  
Surface Protection Specialist  
(505) 234-5965

Todd Suter  
Surface Protection Specialist  
(505) 234-5987

Trishia Bad Bear  
Natural Resource Specialist – Lea County  
(505) 393-3612

Cody Layton  
Natural Resource Specialist  
(505) 234-5959

Paul Evans  
Environmental Protection Specialist  
(505) 234-5977

Terry Gregston  
Environmental Protection Specialist  
(505) 234-5958

10/18/2006