

DATE IN. 7-23-10	SUSPENSE	ENGINEER WJ	LOGGED IN 7-23-10	TYPE SWD	APP NO. 1020451888
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PTG W file

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



BOPCO

PLU # 91

ADMINISTRATIVE APPLICATION CHECKLIST 30-015-29509

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

[D] Other: Specify _____

Talked To Sandra;
 ~ 8/11
 She will send Prod. PLOT.
 AND AOR MAP

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sandra Belt	<u>Sandra Belt</u>	Regulatory Clerk	5-18-10
Print or Type Name	Signature	Title	Date
		<u>sibelt@basspet.com</u>	
		e-mail Address	

WEDTC

BOPCO, L. P.
6 DESTA DRIVE, SUITE 3700 (79705)
P. O. BOX 2760
MIDLAND, TEXAS 79702

(432) 683-2277

FAX (432) 687-0329

May 18, 2010

**Re: Notice of Application for Authorization
to Complete as SWD Well
Poker Lake Unit #91
Eddy County, New Mexico
File: 100-WF: PLU91.C108**



Oil Conservation Division
Attention: William Jones
1220 S. St. Francis
Santa Fe, New Mexico 87505

Mr. Jones:

Enclosed please find BOPCO, L.P.'s Application for Authorization to Re-Enter and Complete for disposal purposes only into the Poker Lake Unit #91, Located in Section 12, T25S, R30E, Eddy County, New Mexico.

If additional information is required, please contact Sandra J. Belt at the letterhead address, phone number or via email at sjbelt@basspet.com.

Sincerely,

Handwritten signature of Sandra J. Belt in cursive script.

Sandra J. Belt
Sr. Regulatory Clerk

sjb
Attachments

CC: BLM

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE : _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: BOPCO, L.P.

ADDRESS : P O Box 2760 Midland Tx 79702

CONTACT PARTY : Sandra J. Belt ext. 149 PHONE : (432)683-2277

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the 'Proof of Notice' section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Sandra J. Belt ext. 149 TITLE: Sr. Regulatory Clerk

SIGNATURE: Sandra J. Belt DATE: 05/18/2010

E-MAIL ADDRESS: sjbelt@basspet.com

* If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III. Well Data

A. 1) Lease name: **Poker Lake Unit**
 Well #: **91**
 Section: **12**
 Township: **25S**
 Range: **30E**
 Footage: **330' FNL 330' FWL**

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
11-3/4" 42# WC-40 STC	1079	625	14-3/4"	Surface	Circulated
8-5/8" 32# J-55 WC50 LTC	4,070'	1,550	11"	1,356	Temp Survey
5-1/2" 15.5# & 17# K55/LS<C	8,097	300	7-7/8"	6,280'	CBL
5-1/2" 15.5# & 17# K-55 DVTool	5,019'	400	7-7/8"	4,250'	CBL

3) Tubing to be used (size, lining material, setting depth):
2-7/8" 6.5# J-55 Seal Tite IPC tbg set @ 4,130'.

4) Name, model, and depth of packer to be used:
5-1/2" Lokset Nickel Plated EXT/INT PC Pkr set @ 4,130'.

B. 1) Name of the injection formation and, if applicable, the field or pool name:
Corral Canyon, (Delaware) NE (Delaware formation).

2) The injection interval and whether it is perforated or open hole:
Perforated 4,180'-6,065'

3) State if the well was drilled for injection or, if not, the original purpose of the well:
Drill & complete Corral Canyon (Delaware) NE pool; (Delaware formation) development well.

4) Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations:

Well was plugged 3-13-07 w/perfs of 6519-7750 plugged off w/a BP @ 6469 and 35' cement on top. A BP will be placed in the well @ 6100' w/35' cement on top w/a PBTD of 6065'

5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any:
Higher: None
Lower: Bone Spring @ 7894'

C-108 DATA

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

Well Name	No.	API	Operator	Type	Location	Surface Casing	Intermediate Casing	Production Casing	Tubing	Spud Date	Comp Date	TD	Perforations	Stimulation
Federal-J.F. Harrison	1	30-015-04740	Richardson & Bees	Plugged	660' FHL & FWL; Sec. 12:T25S;R30E	13-3/8" @ 3971'; 61' & 72#; 9-5/8" @ 10,073'; 40' & 42#; 2545 6450 sxs	7" @ 16,626'; 32#; 1975 sxs	7" @ 16,626'; 32#; 1975 sxs	NA	7/22/1952	10/27/1953	16,705	12,220-12,360	NA
PLU	116	NA	BOPCO, LP	Not Drilled	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Shugart Federal	1	30-015-10524	Choctaw Production Co.	Plugged	1990' FHL & WL; Sec. 12:T25S;R30E	8-5/8" @ 341'; w/225 sxs	NA	NA	NA	9/16/1965	10/1/1965	4200'	NA	NA

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected: **2,000 average, 2,500 maximum BWPD**
2. Whether the system is open or closed: **closed**
3. Proposed average and maximum injection pressure: **836 psi average, 836 psi maximum**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: **Water will be produced from same reservoir (Delaware).**
5. If injection is for disposal purposes into a zone not productive of oil & gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water: In the process of obtaining samples; will send results as soon as available.

VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with TDS of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval:

Lithologic Detail: **Sand, Shale**
 Geological Name: **Delaware Mountain Group**
 Thickness: **3,805**
 Depth: **4,088' - 7,893'**

The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 938'-1255'. No sources of fresh water are known to exist below the proposed disposal zone.

IX. Describe the proposed stimulation program, if any:

The new perms will be perforated and acidized with approximately 50 gallons 7-1/2% NEFE HCl per foot.

X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) Logs previously submitted.

XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

There is one stock-tank located in the NW 1/4 of Section 12.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrology connection between the disposal zone and any underground sources of drinking water.

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults, or other hydrologic connection between the disposal zone and any underground source of drinking water.

PLUG AND ABANDON WELLBORE

LEASE: POKER LAKE UNIT **WELL #:** 91 -- P&A'D (6/13/2007)
FIELD: NE CORRAL CANYON (DELAWARE) FIELD
LOCATION: 360' FNL & 330' FWL, SEC 12, T25S, R30E
COUNTY: EDDY **ST:** NM **API:** 30-015-29509

KB:	3372.5'
GL:	3355.7'
SPUD DATE:	6/1/1997
COMP DATE:	7/4/1997

SURFACE CASING

SIZE:	11-3/4"	
WT/GRD:	42#	WC-40 STC
CSA:	1079'	
SX:	625	
CIRC:	Yes	161 SXS
TOC:	SURF	
HOLE SIZE:	14-3/4"	1084'

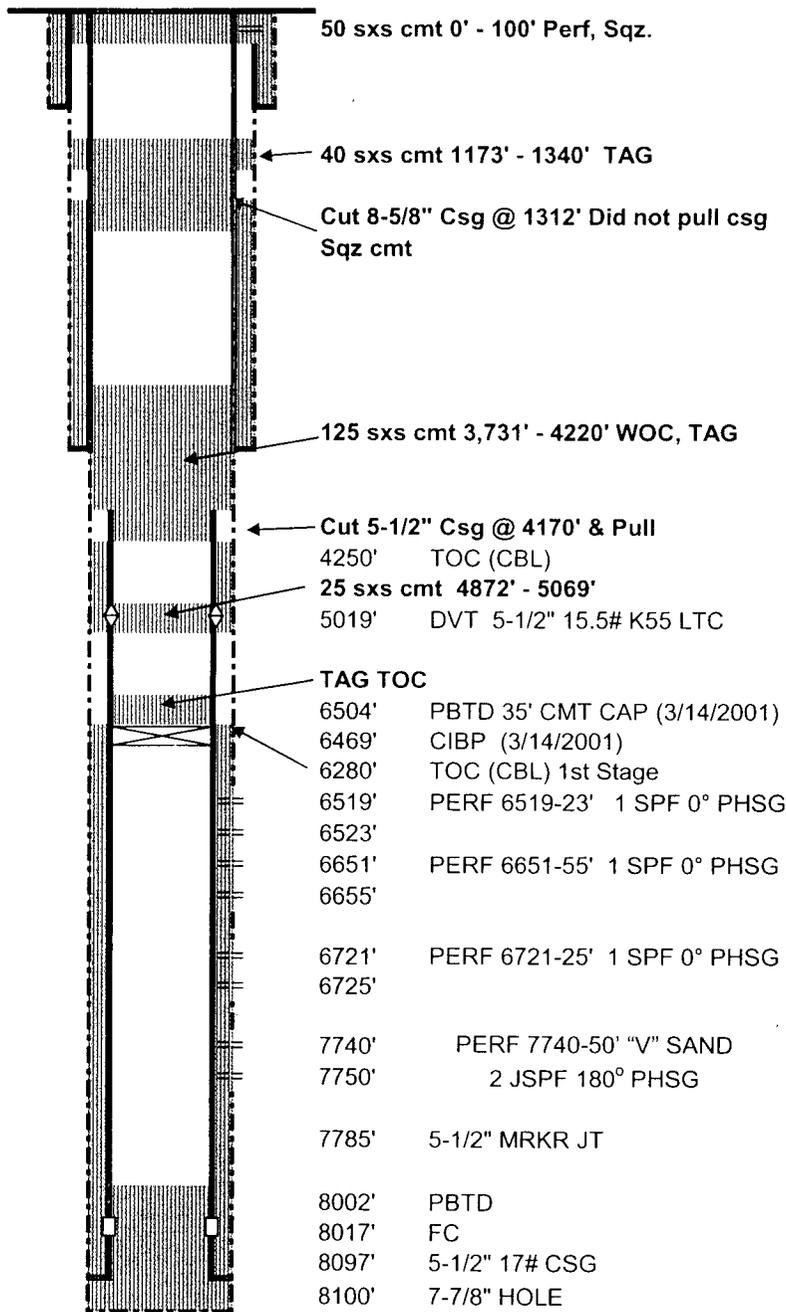
INTERMEDIATE CASING

SIZE:	8-5/8"	
WT/GRD:	32#	WC50 LTC
CSA:	4070'	
SX:	1550	
CIRC:	No	
TOC:	1356'	TS
HOLE SIZE:	11"	4072'

NOTE: CALIPER INDICATES AVG HOLE SIZE 14-1/4"

PRODUCTION CASING

SIZE:	5-1/2"	
WT/GRD:	15.5# K55	0-5019'
WT/GRD:	17# LS LTC	5019-8097'
CSA:	8097'	
SX:	440	CLS "H"
SX:	300	CLS "C"
CIRC:	No	6280' CBL
TOC:	4250'	CBL
HOLE SIZE:	7-7/8"	8100'



50 sxs cmt 0' - 100' Perf, Sqz.
 40 sxs cmt 1173' - 1340' TAG
 Cut 8-5/8" Csg @ 1312' Did not pull Sqz cmt
 125 sxs cmt 3,731' - 4220' WOC, TAG
 Cut 5-1/2" Csg @ 4170' & Pull
 4250' TOC (CBL)
 25 sxs cmt 4872' - 5069'
 5019' DVT 5-1/2" 15.5# K55 LTC
TAG TOC
 6504' PBDT 35' CMT CAP (3/14/2001)
 6469' CIBP (3/14/2001)
 6280' TOC (CBL) 1st Stage
 6519' PERF 6519-23' 1 SPF 0° PHSG
 6523'
 6651' PERF 6651-55' 1 SPF 0° PHSG
 6655'
 6721' PERF 6721-25' 1 SPF 0° PHSG
 6725'
 7740' PERF 7740-50' "V" SAND
 7750' 2 JSPF 180° PHSG
 7785' 5-1/2" MRKR JT
 8002' PBDT
 8017' FC
 8097' 5-1/2" 17# CSG
 8100' 7-7/8" HOLE

PBDT: 6504'
 TD: 8100'
 LOGGER TD: 8128'

Updated: 3/9/2007
 Author: WHF
 Engr: MMM

PROPOSED RE-ENTER

LEASE: POKER LAKE UNIT WELL #: 91 -- RE-ENTER
 FIELD: NE CORRAL CANYON (DELAWARE) FIELD
 LOCATION: 360' FNL & 330' FWL, SEC 12, T25S, R30E
 COUNTY: EDDY ST: NM API: 30-015-29509

KB:	3372.5'
GL:	3355.7'
SPUD DATE:	6/1/1997
COMP DATE:	7/4/1997
P&A'D:	6/13/2007

SURFACE CASING

SIZE:	11-3/4"
WT/GRD:	42# WC-40 STC
CSA:	1079'
SX:	625
CIRC:	Yes 161 SXS
TOC:	SURF
HOLE SIZE:	14-3/4" 1084'

INTERMEDIATE CASING

SIZE:	8-5/8"
WT/GRD:	32# WC50 LTC
CSA:	4070'
SX:	1550
CIRC:	No
TOC:	1356' TS
HOLE SIZE:	11" 4072'

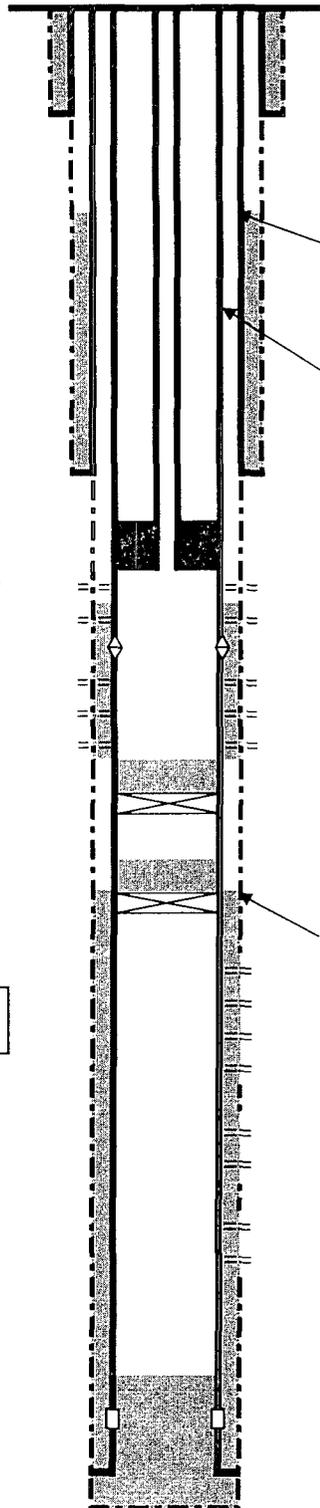
NOTE: CALIPER INDICATES AVG HOLE SIZE 14-1/4"

PRODUCTION CASING

SIZE:	5-1/2"
WT/GRD:	15.5# K55 0-5019'
WT/GRD:	17# LS LTC 5019-8097'
CSA:	8097'
SX:	440 CLS "H"
SX:	300 CLS "C"
CIRC:	No 6280' CBL
TOC:	4250' CBL
HOLE SIZE:	7-7/8" 8100'

TUBING

2-7/8" J-55 Seal Tite IPC tbg set @ 4,130'
5-1/2" Lokset Nickel Plated EXT/INT PC pkr @ 4,130'



Cut 8-5/8" Csg @ 1312' Did not pull csg Sqz cmt

Run 5-1/2" csg to tie into existing csg @ 4170'.

4130' PKR/EOT
Proposed Inj Perfs - 4,180' - 6,065'

4250' TOC (CBL)
 5019' DVT 5-1/2" 15.5# K55 LTC

6065' TOP OF CMT PLUG
 6100' CIBP w/ 35' CMT CAP

6504' PBTD 35' CMT CAP (3/14/2001)
 6469' CIBP (3/14/2001)
 6280' TOC (CBL) 1st Stage
 6519' PERF 6519-23' 1 SPF 0° PHSG
 6523'
 6651' PERF 6651-55' 1 SPF 0° PHSG
 6655'

6721' PERF 6721-25' 1 SPF 0° PHSG
 6725'

7740' PERF 7740-50' "V" SAND
 7750' 2 JSPF 180° PHSG

7785' 5-1/2" MRKR JT

8002' PBTD
 8017' FC
 8097' 5-1/2" 17# CSG
 8100' 7-7/8" HOLE

PBTD: 6065'
 TD: 8100'
 LOGGER TD: 8128'

Updated: 3/22/2010
 Author: MJR
 Engr: CCC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM 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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM 030456
2. Name of Operator BEPCO, L.P.		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 2760 MIDLAND TX 79702-2760		7. If Unit or CA/Agreement, Name and/or No. POKER LAKE UNIT
3b. Phone No (include area code) (432)683-2277		8. Well Name and No. POKER LAKE UNIT #91
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 360' FNL & 330' FWL, SEC. 12, T25S, R30E LAT. 32.15 LONG -103.84137		9. API Well No. 30-015-29509
		10. Field and Pool, or Exploratory Area CORRAL CANYON, NE. (DELAWARE)
		11. County or Parish, State EDDY COUNTY NEW MEXICO

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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.)

06-04-2007 MIRU MAYO MARS PLUGGING RIG. RIH AND TAG TOC @ 6504'. CIRCULATE WELL W/10# BRINE MIX W/30 SACKS SALT GEL.
PUH TO 5069' AND SPOTTED 25 SXS CLASS C NEAT CEMENT PLUG FROM 4822-5069'. PLUG WITNESSED BY TERRY WILSON WITH BLM. POOH & LAY DOWN TUBING.
RIH W/5-1/2" JET CUTTER AND CUT AND PULL 5-1/2" CSG FROM 4170'.
SPOT 125 SXS. CLASS C NEAT CEMENT FROM 3731'-4220. CALLED TERRY WILSON W/BLM BUT HE DID NOT WITNESS. RIH AND TAG CEMENT @3731'. POH WITH TUBING AND RIH WITH JET CUTTER TO 1312' & CUT 8-5/8" CSG. ATTEMPTED TO PULL CSG WITH 120,000 # BUT NO SUCCESS. SET PKR @ 20' AND PRESSURED UP TO 800 PSI. HELD OK. SPOTTED 40 SXS CLASS C NEAT CEMENT FROM 1173' - 1340'. CALLED TERRY WILSON W/BLM BUT HE DID NOT WITNESS.
PERFED 8-5/8" CSG AT 100' AND PUMPED 50 SXS. CLASS C NEAT CEMENT AND CIRCULATED TO SURFACE. 8/5/8" CSG FULL OF CEMENT INSIDE AND OUT. CIRCULATED PLUGGING MUD BETWEEN ALL PLUGS. DUG OUT CELLAR AND CUT OFF WELLHEAD. INSTALL DRY HOLE MARKER AS PER BLM REGULATIONS. FILL IN CELLAR AND CLEAN LOCATION.
6-13-2007 WELL IS PLUGGED AND ABANDONED.

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

ANN MOORE

Title PRODUCTION CLERK

Signature

Ann Moore

Date 06/18/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

ACCEPTED FOR RECORD

Approved by

Title

Date

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 property which would entitle the applicant to conduct operations thereon.

Office

JUN 30 2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1722 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)

OCD-District II ARTESIA

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

POKER LAKE UNIT #91
WELL HISTORY

DRILLING NOTES:

03-07-97 Arch Survey on location 460' FNL & 330' FWL.
03-22-97 BLM moved location 100' N & re-staked location @ 360' FNL & 330' FWL.
03-27-97 Arch Survey on location 360' FNL & 330' FWL.
SURFACE CSG: CMT 11-3/4" CSG W/ 385 SX CLS C + 4% GEL + 2% CaCl₂ + 1/2 PPS CELLOPHANE LEAD (13.5 PPG, YLD 1.74) + 240 SX CLS C + 2% CaCl₂ TAIL (14.8 PPG, YLD 1.32). BUMP PLUG @ 10:37 AM. CIRC 161 SX (50 BBLS) TO PIT. FLOATS HELD.
INTERMEDIATE CSG: (NOTE: FLUID CALIPER INDICATES AVG HOLE SIZE 14-1/4") CMT 8-5/8" CSG W/ 1400 SX LEAD (12.4 PPG, 2.14 YLD) + 150 SX TAIL (14.8 PPG, 1.32 YLD). BUMPED PLUG @ 7:30 PM ON 6/11/97. FLOATS HELD. **DID NOT CIRC CMT TO SURFACE.** TOC @ 1356' TS (FIELD EST). NOTE: BGH notified Gene Hunt w/BLM concerning lack of cmt rets. Per call w/Joe Lara & Jim Amos, will run TS & either 1" top out or perf & sqz if TOC not above 880' (200' fill inside 11-3/4" csg). NOTE: WRD spoke w/ Joe Lara w/ BLM on 6/12/97 concerning cmt top out. Top out will be deferred until well is P&A'd (perf & sqz or cut & salvage csg).
PRODUCTION CSG: CMT CSG W/ 1ST STG 440 SX + CLS H + 1.4 GPS D155 + 0.05 GPS D604 + 0.02 GPS M-45 + 3% SALT + 0.3% D13 (WT 14.0 PPG, YLD 1.66). PLUG DOWN @ 9:36 AM ON 6/21/97. DROP OPENING BOMB. OPEN DVT @ 5019' & CIRC. 2ND STG 100 SX 35/65 POZ C + 6% GEL + 1/4 PPS CELLOPHANE LEAD (WT 12.8, YLD 1.85) FOLLOWED BY 200 SX CLS C NEAT TAIL (WT 14.8 PPG, YLD 1.32). PLUG DOWN @ 2:25 PM ON 6/21/97. TOC 4220' (TS). 06/30/97 RAN RBL/GR/CCL FOUND TOC 6280' 1ST STG & 4250' 2ND STG

INITIAL COMPLETION: 06/27/1997-07/03/1997

DOC 4974-5019'. DO DVT @ 5019'. RIH to PBD @ 8002'. Ran RBL-GR-CCL log from 7900-7600, 6900-6000', 5100-4700', 4300-4000'. Found TOC @ 6280'(1st stg) & 4250 (2nd Stg).

06/30/97 PERF 7740-50' "V" SAND 2 JSPF 180° PHSG. FRAC w/ 33,000 gls YF130 + 147,730# 20/40 Brady Sd + 500# 20/40 RCS. Screened out extrmly fast on RCS. Rvrs clean to PBD @ 8002'. Set Lufkin 640 PU w/ Ajax DP-80 Gas engine. POP @ 144" SL X 8.5 SPM. Flowline to PLU #79 btry.

IP: 07/24/97 52 BOPD+52 MCFGPD+186 BWPD.

WORKOVER SUMMARY:

07/1997 CLEAN OUT & PROP-LOK
01/1998 COMPLETE 115 SZ, JRU 13 & LR "A"
03/1998 DO CIBP & COMMINGLE ALL ZONES
04/1998 SUMP PUMP
03/2001 TA WELL

CLEAN OUT SAND & PROP-LOK: 07/15/1997-07/18/1997

Tag sand fill @ 7739' FS (263' entry). POH w/tbg. CO fill to PBD @ 8002'. Re-tag top of fill @ 7957' (45' of entry). CO to PBD @ 8002'. Pmp 5 bbls Prop-Lok w/25 BS. POP.

COMPLETE 115 SZ, JRU 13 & LR "A" F & FRAC: 01/27/1998-01/31/1998

01/27/98 Set CIBP @ 7650'.

PERF 6519-23, 6651-55 W/1 SPF @ 0° PHSG. PERF 6721-25 W/1 SPF @ 0° PHSG. Frac 6519-6725 w/28,000 gls. SFG 2500 + 101,000# 16/30 Brady sd + 53,000# 12/20 RCS. POP. AWO: 2/8/98 55 BO, 274 BW, 56 MCFG.

DO CIBP @ 7650' & COMMINGLE ALL ZONES: 03/17/1998-03/20/1998

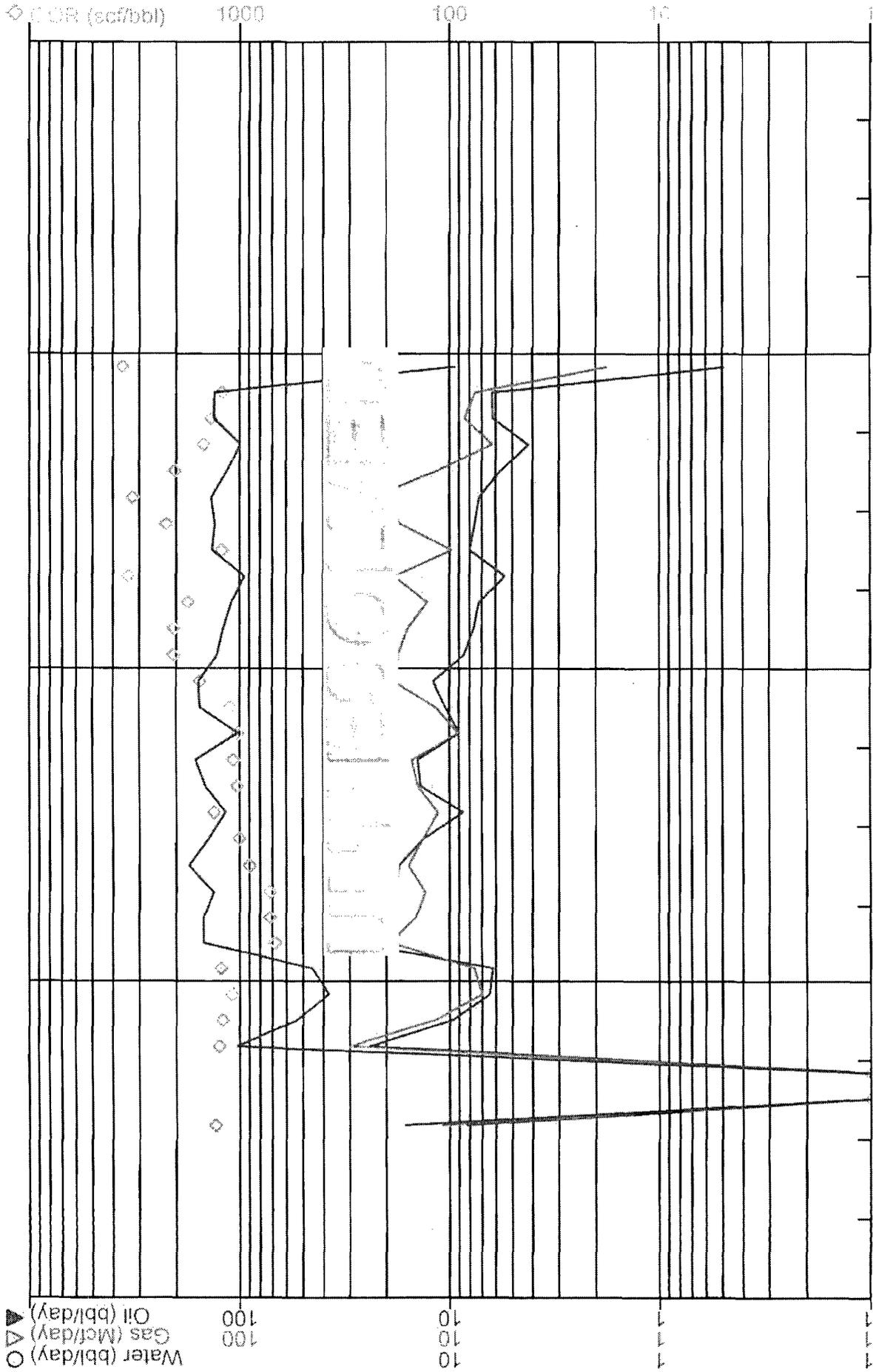
Tag top of fill @ 6760'(35' below bottom perf) w/575' of entry since 1/31/97. DO CIBP @ 7650'. CO to PBD @ 8015' (ORIGINAL PBD 8002' - POSSIBLE FILL TO 8015'). RIH w/tbg. rods, & pump. Place well on prod.

AWO: 3/25/98 22 BO, 168 BW, 17 MCFG.

Accepted for record
NMOCD

1000353/POKER LAKE UNIT/91/DEL
Major Phase: Oil

Field: CORRAL CANYON (DELAWARE) NORTHEAST



1997

1998

1999

2000

Hist Oil Cum: 8.96 Mbbbl

Hist Gas Cum: 11.35 MMcf

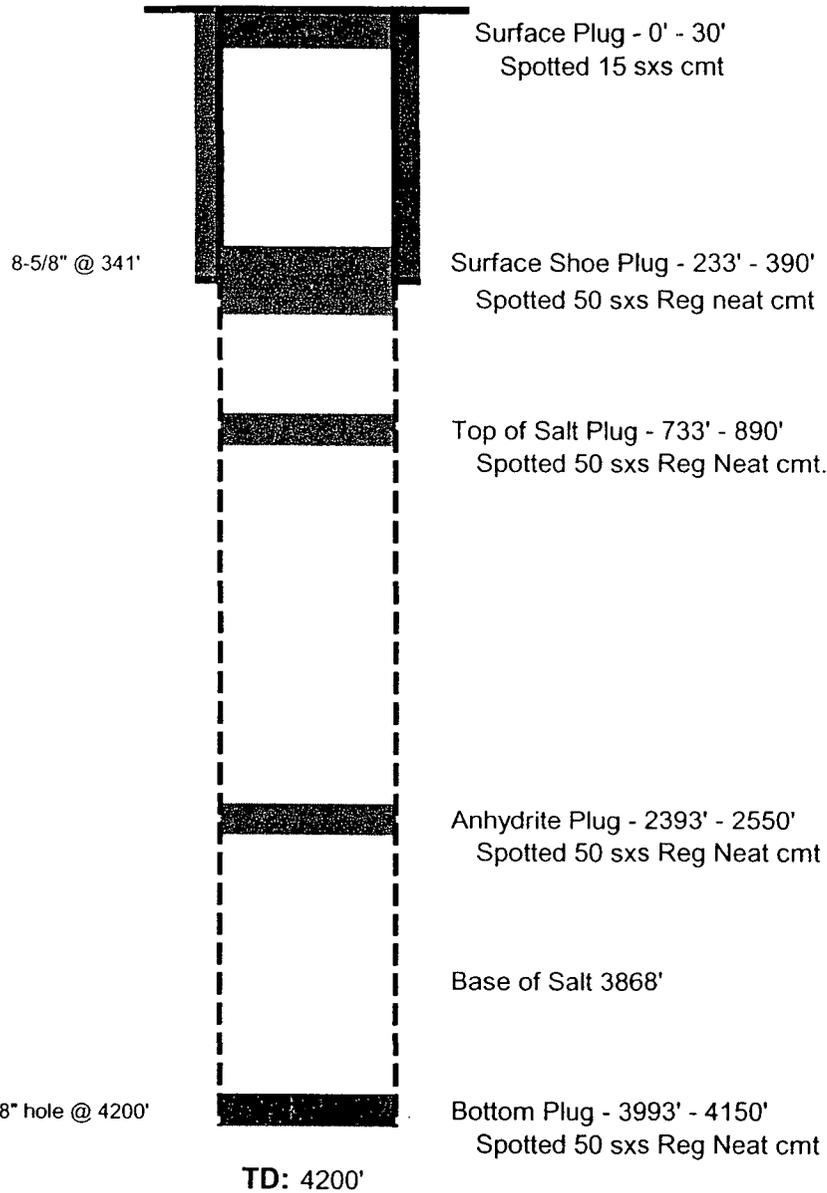
CURRENT WELLBORE DIAGRAM

LEASE: SHUGART FEDERAL **WELL #:** 1
FIELD: _____
OPERATOR: CHOCTAW PROD. CO.
LOCATION: 1980' FNL & 1980' FWL, SEC 12-T25S-R30E
COUNTY: EDDY **ST:** NM **API:** 30-015-10524

KB: 3370'
GL: 3363'
SPUD DATE: 9/16/1965
P&A DATE: 10/1/1965

SURFACE CASING

SIZE: 8-5/8"
 WT: 24# J-55
 CSA: 341'
 SX: 225
 CIRC: YES
 TOC: SURF
 HOLE SIZE: 12 1/4"



Surface Plug - 0' - 30'
 Spotted 15 sxs cmt

 Surface Shoe Plug - 233' - 390'
 Spotted 50 sxs Reg neat cmt

 Top of Salt Plug - 733' - 890'
 Spotted 50 sxs Reg Neat cmt.

 Anhydrite Plug - 2393' - 2550'
 Spotted 50 sxs Reg Neat cmt

 Base of Salt 3868'

 Bottom Plug - 3993' - 4150'
 Spotted 50 sxs Reg Neat cmt

UPDATED: 4/8/2010
 AUTHOR: cm
 ENGINEER: CCC

CURRENT WELLBORE DIAGRAM

Lease: **J. F. HARRISON FEDERAL** Well No.: **1**
 Field: **WILDCAT**
 Location: **660' FNL & 660' FWL, SEC. 12, T-25-S, R30E**
 County: **EDDY** St: **NM** API: **30-015-04749**

KB: 3378'
 GL:
 Spud Date: 7/22/1952
 Compl. Date: 10/27/1953

Surface Csg.

Size: 13-3/8"
 Wt 61 & 72
 Grd. J-55
 Set @: 3971'
 Sxs cmt: 6450 SX
 Circ:
 TOC: Surface
 Hole Size:

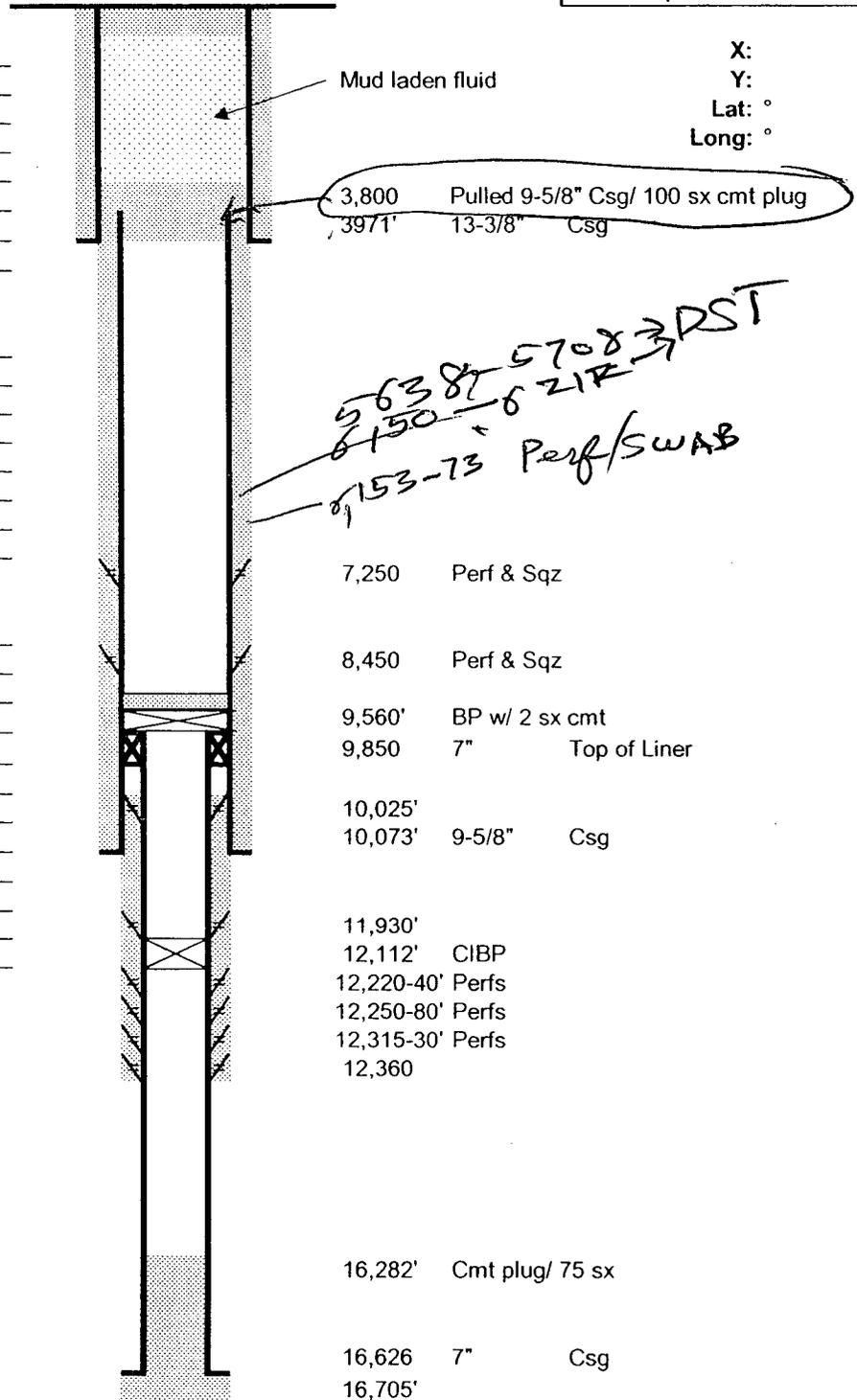
Intermediate Csg.

Size: 9-5/8"
 Wt 40 & 42
 Grd
 Set @: 10,073'
 Sxs Cmt: 2540 sx
 Circ:
 TOC:
 Hole Size:

Production Csg.

Size: 7"
 Wt 32
 Grd
 Set @: 16,626
 Stage 1: 1975 sx
 Circ:
 Stage 2:
 Circ:
 TOC:
 Hole Size:

Tubing



Mud laden fluid
 3,800 Pulled 9-5/8" Csg/ 100 sx cmt plug
 3971' 13-3/8" Csg

7,250 Perf & Sqz
 8,450 Perf & Sqz
 9,560' BP w/ 2 sx cmt
 9,850 7" Top of Liner
 10,025'
 10,073' 9-5/8" Csg
 11,930'
 12,112' CIBP
 12,220-40' Perfs
 12,250-80' Perfs
 12,315-30' Perfs
 12,360
 16,282' Cmt plug/ 75 sx
 16,626 7" Csg
 16,705'

Handwritten notes:
 5638 5708 3 RST
 6150 - 6 2 1/2
 153-73 Perf/Swab

PBTD: 12,343
 TD: 16,705
 TD:

Updated: 2/24/2010
 Author: ezg
 Engr: CC

Form 9-331a
(Feb. 1951)

ARTESIA OFFICE COPY

Budget Bureau 42-R338.2
Approval expires 12-31-52

APPROVED MAY 24 1954
[Signature]
DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. 061620-A
Unit Poker Lake

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Federal-J. F. Harrison May 21 19 54

Well No. 1 is located 660 ft. from N line and 660 ft. from W line of sec. 12

NW/4, Section 12 T-25-S R-30-S NMPM
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

"Wildcat" Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3378 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

20" casing set @ 557'; 13-3/8" casing set @ 3971'; 9-5/8" casing set @ 10,073';
7" casing set @ 9850' to 16,626'.

Well drilled to a total depth of 16,705' - Plugged back to 16,282' w/75 sacks cement. Set cast iron bridge plug in 7" liner @ 12,112'. Set 9-5/8" magnesium bridge plug at 7560' and dumped 2 sacks of cement on top. All testing perforations in 7" and 9-5/8" casing have been squeezed off w/cement. After pulling the 9-5/8" casing from 3800', 100 sacks of cement will be spotted in the top of 9-5/8" casing at this point. Twenty sacks of cement will be placed in the 13-3/8" casing at the surface.

Between the plugs is mud laden fluid.

MAY 24 1954
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Richardson & Bass

Address P. O. Box 1178

Monahans, Texas

By *[Signature]*
S. J. Scarborough
Title Assistant Division Manager

PI/Dwights PLUS on CD Well Summary Report

----- General Information -----					
State	:	NEW MEXICO	Final Status	:	D&A-OG
County	:	EDDY	Drill Total Depth	:	16705
Field	:	EDDY	Log Total Depth	:	
Operator Name	:	RICHARDSON & BASS	True Vertical Depth	:	
Lease Name	:	JF HARRISON FEDERAL			
Well Number	:	1	Spud Date	:	JUL 24, 1952
API Number	:	30015047490000	Comp Date	:	MAY 22, 1954
Regulatory API	:				
Init Lahee Class	:	WF	Hole Direction	:	VERTICAL
Final Lahee Class	:	WF	Reference Elevation	:	3378 DF
Permit Number	:		Ground Elevation	:	
Geologic Province	:	PERMIAN BASIN	KB Elevation	:	
Formation at TD	:	000UNKWN			UNKNOWN
Oldest Age Pen	:	309			DEVONIAN UNDIFFERENTIATED
Township	:	25 S	Section	:	12 SEC
Range	:	30 E	Spot	:	
Base Meridian	:	NEW MEXICO			

----- Additional Location Information -----				
Footage Location	:	660 FNL 660 FWL CONGRESS SECTION		
Latitude	:	32.1503700	Latitude (Bot)	:
Longitude	:	-103.8404200	Longitude (Bot)	:
Lat./Long. Source	:	TS		

----- Production Tests -----									
Test	Top Form	Base Form	Top Depth	Base Depth	Choke	Oil GOR	Prod Grav	Method	Test Method
001			12320	12335				PERF	FLOWING
002			12220	12335	40/64			PERF	FLOWING
003			12220	12335				PERF	FLOWING
004			12320	12335	32/64			PERF	FLOWING
005			12320	12335	64/64			PERF	GAS LIFT
006			9380	9460				PERF	SWABBING
007			9380	9400				PERF	SWABBING
008			9425	9430				PERF	SWABBING
009			9460	9530				PERF	SWABBING
010			7652	7662				PERF	SWABBING
011			7652	7662				PERF	SWABBING
012			7665	7670				PERF	SWABBING
013			7665	7670				PERF	SWABBING
014			7665	7670				PERF	SWABBING
015			7665	7670				PERF	SWABBING
016			7710	7716				PERF	SWABBING
017			6153	6173				PERF	SWABBING
018			6435	6595				PERF	UNDESIGNATED
019									UNDESIGNATED
020			6435	6595				PERF	SWABBING
021			6530	6595				PERF	SWABBING
022			6435	6515				PERF	SWABBING

Production Shutoff

Test	Shutoff Type	Top Depth	Base Depth	Plugback Depth
002	UNDG			12345
003	UNDG			12345

PI/Dwights PLUS on CD Well Summary Report

004	UNDG	12345
005	UNDG	12345
006	UNDG	9560
008	UNDG	9560
010	UNDG	7675
011	UNDG	7675
012	UNDG	7675
013	UNDG	7675
014	UNDG	7675
015	UNDG	7675
016	UNDG	7675
017	UNDG	6230
020	UNDG	6766
021	UNDG	6766
022	UNDG	6523

Production Volume

Test	Amount	Oil			Cond			Gas			Wtr	
		Unit	Desc	Amount	Unit	Desc	Amount	Unit	Desc	Amount	Unit	Desc
001	5	BBL					750	MCFD				
002							125	MCFD				
003	15	BBL										
004	14	BBL					75	MCFD				
005	5	BBL					24	MCFD				
006												
007												
008												
009												
010												
011												
012										25	BBL	
013												
014												
015												
016												
017										165	BBL	
018												
019												
020												
021												
022												

Production Pressure

Test	FTP	Production Pressure		
		SITP	FCP	SICP
001				
002				
003				
004	350			
005				
012				
017				
020				
021				
022				

PI/Dwights PLUS on CD Well Summary Report

Test	Press	Production Bottom Hole		
		Temp	Depth	Time
020				
021				

Test	Top	Base	Production Treatment				PSI	Inj	Type	Nbr	Agent	Add
			Volume	Meas	Amount	T/P						
002	12320	12335	1600	GAL				FRAC			SAND	
002	12320	12335	1000	GAL				ACID				
007	9380	9400	2000	GAL				FRAC				
009	9460	9530	6000	GAL				FRAC				
011	7652	7662	5000	GAL				FRAC				
013	7665	7670	3000	GAL				FRAC			SAND	
013	7665	7670	3000	GAL				FRAC			SAND	
015	7665	7670	1000	GAL				ACID				
016	7710	7716	3000	GAL				FRAC				
016	7710	7716	5000	GAL				FRAC				
019	7710	7716	3000	GAL				FRAC				
022	6435	6515	1000	GAL				FRAC				

Test	Top	Base	Production Perforation						Count	Density	Per
			Type	Method	Top Form	Base Form	Status				
001	12320	12335		PERF				C			
002	12220	12240		PERF				C			
002	12250	12280		PERF				C			
002	12315	12330		PERF				C			
003	12220	12335		PERF							
004	12320	12335		PERF							
005	12320	12335		PERF							
006	9380	9460		PERF							
006	9380	9400		PERF							
007	9380	9400		PERF							
008	9425	9430		PERF				C			
009	9460	9530		PERF				C			
010	7652	7662		PERF				C			
011	7652	7662		PERF							
012	7665	7670		PERF				C			
013	7665	7670		PERF							
014	7665	7670		PERF							
015	7665	7670		PERF							
016	7710	7716		PERF				C			
017	6153	6173		PERF				C			
018	6435	6490		PERF				C			
018	6500	6515		PERF				C			
018	6530	6560		PERF				C			
018	6575	6595		PERF				C			

Formations

Form Code	Form Name	Top Depth	Top TVD	Base Depth	Base TVD	Source	Lithology
453DLLM	BLACK LIME /DELAWARE LM/	4060				LOG	
453DLWR	DELAWARE	4090				LOG	
452BSPG	BONE SPRING	7880				LOG	
409PSLV	PENNSYLVANIAN	13720				LOG	
359MSSP	MISSISSIPPIAN	15885				LOG	

PL/Dwights PLUS on CD Well Summary Report

359MPLM	MISSISSIPPIAN LM	16075	LOG
319WDFSH	WOODFORD /SH/	16475	LOG
309DVNN	DEVONIAN	16627	LOG

Core Data

Formation	Top Depth	Base Depth	Recovered	Type	Show
	5677	5687	10 FT	CONV	
	5688	5708	20 FT	CONV	WET
	6163	6212	30 FT	CONV	
	6305	6325	14 FT	CONV	
	6327	6347	20 FT	CONV	
	6395	6401	6 FT	CONV	OIL
	6745	6753	8.5 FT	CONV	
	7069	7094	25 FT	CONV	
	7253	7265	12 FT	CONV	
	7265	7268	3 FT	CONV	FLRN
	7268	7274	6 FT	CONV	FLRN
	7274	7278	4 FT	CONV	
	7299	7349	50 FT	CONV	
	7423	7448	19 FT	CONV	FLRN
	7474	7499	25 FT	CONV	FLRN
	7499	7520	21 FT	CONV	
	7560	7586	26 FT	CONV	FLRN
	7673	7698	25 FT	CONV	
	7698	7723	25 FT	CONV	
	7723	7727	4 FT	CONV	
	7727	7738	11 FT	CONV	
	7754	7766	12 FT	CONV	
	7767	7773	6.5 FT	CONV	FLRN
	8120	8140	20 FT	CONV	
	8893	8918	21 FT	CONV	
	9139	9153	12 FT	CONV	GAS
	9155	9167	12 FT	CONV	
	9172	9180	0 FT	CONV	
	9180	9205	25 FT	CONV	
	9206	9208	1.5 FT	CONV	
	9211	9216	5 FT	CONV	

Formation Tests

Test	Type	Top Depth	Base Depth	Top Form	Top Choke	Bottom Choke	Show
001	DST	5638	5708				7
002	DST	6150	6212				7
003	DST	6225	6327				
004	DST	6379	6401				
005	DST	7212	7299				
006	DST	7428	7520				
007	DST	7544	7586				
008	DST	7644	7673				
009	DST	7669	7723				

Pressure and Time

Test	Init	Hydro Final	Init Flow Init	Init Flow Final	Final Flow Init	Final Flow Final	Shut-in Init	Shut-in Final	Open Time Init	Open Time Final	Shut-in Time Init	Shut-in Time Final
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PI/Dwights PLUS on CD Well Summary Report

001	70	118	308	120	15
002	40	315	1885	180	30
003	260	650	1375	120	30
004	435	2660		240	
005	30	130	1380	270	30
006	880	1760	0	42	
007	95	130	225	60	15
008	590	1035	2400	60	
009	65	195	360	240	

Pipe Recovery

Test	Amount	Unit	Desc	Rec Type	Rec Method
001	125	FT	M		PIPE
001	90	FT	O&GCM		PIPE
002	105	FT	M		PIPE
002	180	FT	SOGCXWB		PIPE
002	90	FT	SMCXW		PIPE
002	180	FT	XW		PIPE
003	480	FT	M		PIPE
003	180	FT	GCM		PIPE
003	270	FT	HGCM		PIPE
003	450	FT	HO&GCM		PIPE
004	180	FT	M		PIPE
004	1580	FT	SGCM		PIPE
004	3640	FT	GCMCXW		PIPE
005	96	FT	SO&GCM		PIPE
005	90	FT	GCM		PIPE
005	90	FT	GXWCM		PIPE
005	45	FT	GCM		PIPE
006	2880	FT	SGCM		PIPE
007	265	FT	VSO&GCM		PIPE
008	450	FT	M		PIPE
008	360	FT	GCOCM		PIPE
008	630	FT	HGOCM		PIPE
008	270	FT	SXWCHGO		PIPE
009	66	FT	SGOCM		PIPE
009	174	FT	HO&GCM		PIPE
009	174	FT	GOCXW		PIPE

Casing Data

Size	Base Depth	Cement Unit
20 IN	557	750 SACK
13 3/8 IN	3971	4979 SACK
9 5/8 IN	10076	2711 SACK

Liner Data

Size	Type	Cement Unit	Top Depth	Base Depth
7 IN		1150 SACK	9850	16626

Analytical Laboratory Report for:

BOPCO LP



BJ Chemical Services

Account Representative:

Mossman, Willis

Production Water Analysis

Listed below please find water analysis report from: POKER LAKE UNIT, Fresh Water Well 91

Lab Test No: 2010120071

Sample Date:

04/22/2010

Specific Gravity: 1.002

TDS: 730

pH: 7.60

Cations:	mg/L	as:
Calcium	109	(Ca ⁺⁺)
Magnesium	29.00	(Mg ⁺⁺)
Sodium	78	(Na ⁺)
Iron	0.50	(Fe ⁺⁺)
Potassium	5.0	(K ⁺)
Barium	0.46	(Ba ⁺⁺)
Strontium	1.31	(Sr ⁺⁺)
Manganese	0.03	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	146	(HCO ₃ ⁻)
Sulfate	240	(SO ₄ ⁼)
Chloride	120	(Cl ⁻)
Gases:		
Carbon Dioxide	50	(CO ₂)
Hydrogen Sulfide	17	(H ₂ S)

BOPCO LP

Lab Test No: 2010120071

DownHole SAT™ Scale Prediction
@ 100 deg. F



Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO ₃)	1.50	0.21
Strontianite (SrCO ₃)	0.05	-4.75
Anhydrite (CaSO ₄)	0.04	-1079.08
Gypsum (CaSO ₄ *2H ₂ O)	0.06	-967.16
Barite (BaSO ₄)	9.05	0.70
Celestite (SrSO ₄)	0.03	-85.60
Siderite (FeCO ₃)	14.31	0.58
Halite (NaCl)	0.00	-426942.47
Iron sulfide (FeS)	328.85	0.42

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

BOPCO LP



BJ Chemical Services

Account Representative:
Mossman, Willis

Production Water Analysis

Listed below please find water analysis report from: POKER LAKE UNIT, Fresh Water Well 91

Lab Test No: 2010120071 Sample Date: 04/22/2010

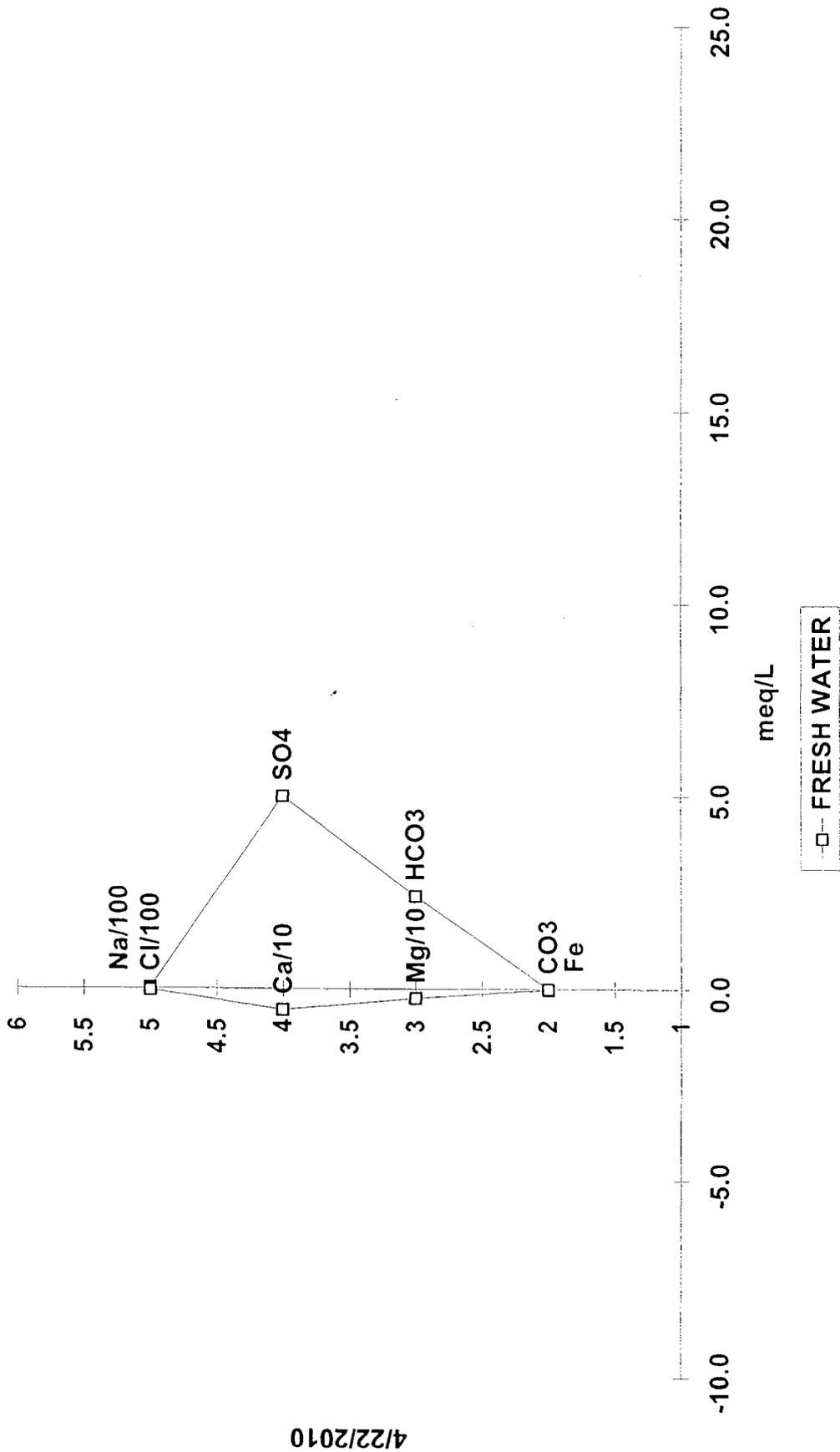
Specific Gravity: 1.002

TDS: 730

pH: 7.60

Cations:	mg/L	as:
Calcium	109	(Ca ⁺⁺)
Magnesium	29.00	(Mg ⁺⁺)
Sodium	78	(Na ⁺)
Iron	0.50	(Fe ⁺⁺)
Potassium	5.0	(K ⁺)
Barium	0.46	(Ba ⁺⁺)
Strontium	1.31	(Sr ⁺⁺)
Manganese	0.03	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	146	(HCO ₃ ⁻)
Sulfate	240	(SO ₄ ⁼)
Chloride	120	(Cl ⁻)
Gases:		
Carbon Dioxide	50	(CO ₂)
Hydrogen Sulfide	17	(H ₂ S)

FRESH WATER STOCK TANK NEAR PLU 91



4/22/2010

7160 3901 9846 3454 6855

US Postal Service
**Certified
Mail
Receipt**
Domestic Mail Only
No Insurance
Coverage Provided

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
Here

Sent To:
Carlsbad Current Argus
ATTN: KATHY MCCANNELL
P O Box 1029
Carlsbad NM 88220

PLU #91 Newspaper Notice
4.7.10

2

2. Article Number

7160 3901 9846 3454 6855

3. Service Type **CERTIFIED MAIL**
4. Restricted Delivery? (Extra Fee) Yes
1. Article Addressed to:

Carlsbad Current Argus
ATTN: KATHY MCCANNELL

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)	B. Date of Delivery
C. Signature <i>Kathy McCannell</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D. Is delivery address different from recipient's address? If YES, enter delivery address below	

PLU #91 Newspaper Notice
4.7.10



7160 3901 9846 3454 6947

2 Article Number

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)	B. Date of Delivery
<i>R. Montoya</i>	5/25/10
C. Signature	<input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee
<i>R. Montoya</i>	
D. Is delivery address different from item 1? If YES, enter delivery address below:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

7160 3901 9846 3454 6947

3. Service Type **CERTIFIED MAIL**

4. Restricted Delivery? (Extra Fee) Yes

1. Article Addressed to:

Oil Conservation Division
1301 W Grand Avenue
Artesia New Mexico 88210

PLU #91 Dsp. App. C108
5.18.10

PS Form 3811, January 2005

Domestic Return Receipt

0669 454E 9846 3454 6930

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C
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Dom
N
Cov
Sent

7160 3901 9846 3454 6930

3. Service Type **CERTIFIED MAIL**

4. Restricted Delivery? (Extra Fee) Yes

1. Article Addressed to:

Bu Bureau of Land Management
62 603 E Greene Street
Ca Carlsbad NM 88220-6292

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)	B. Date of Delivery
	5/24
C. Signature	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee
<i>[Signature]</i>	
D. Is delivery address different from item 1? If YES, enter delivery address below:	<input type="checkbox"/> Yes <input type="checkbox"/> No

PLU #91 Dsp. App. C108
5.18.10

PS Form 3811, January 2005

Domestic Return Receipt

Surface covered

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn,
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

April 14 _____ 2010

That the cost of publication is **\$62.01** and that payment thereof has been made and will be assessed as court costs.

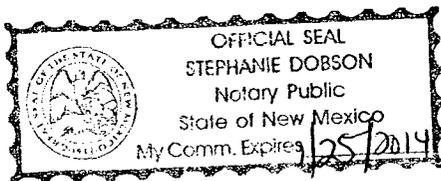
Kathy McCarroll

Subscribed and sworn to before me this

20th day of April, 2010
Stephanie Dobson

My commission Expires on 1/25/2014

Notary Public



April 14, 2010
NOTICE OF APPLI
CATION FOR SALT
WATER DISPOSAL
WELL PERMIT
BOPCO, L.P. has ap-
plied to the New
Mexico Oil Conserva-
tion Division for a
permit to dispose of
produced salt water
or other oil and gas
waste into a porous
formation, non-
productive of oil or
gas.
The applicant propos-
es to dispose of pro-
duced water or other
oil and gas waste into
the Poker Lake Unit
#91 (Delaware For-
mation). The maxi-
mum injection pres-
sure will be 836 psi
and the maximum
rate will be 2,500 bbls
produced water/day.
The proposed dispos-
al well is located 13
miles southeast of
Malaga, New Mexico
in Section 12, T25S,
R30E, Eddy County,
New Mexico. The
produced salt water
will be disposed of at
a subsurface depth of
4,180'-6,065'.
Any questions con-
cerning this applica-
tion should be direct-
ed to Sandra Bell,
Regulatory Clerk,
BOPCO, L.P., P.O.
Box 2760, Midland,
Texas 79702-2760.
(432) 683-2277.
Interested parties
must file objections
or requests for hear-
ing with the Oil Con-
servation Division,
1220 S. St. Francis
Dr., Santa Fe, New
Mexico 87505 with 15
days.

RECEIVED
APR 30 2010
BOPCO WTD PRODUCTION

PLU #91

Dsp Permit App

8-17-10

Will,

Here is a copy of the newspaper clipping, 1/2 mile x 2 mile plot.

We are in the process of getting the 10yr production plot.

Please let me know if I need to provide more documents. Thanks for your help.

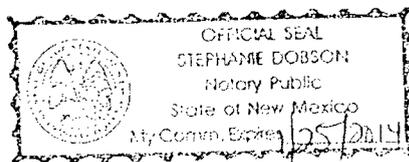
Sandra Belt

Subscribed and sworn to before me this

20th day of April, 2010
Stephanie Dobson

My commission Expires on 1/25/2014

Notary Public



April 14, 2010

NOTICE OF APPLICATION FOR SALT WATER DISPOSAL WELLS PERMIT

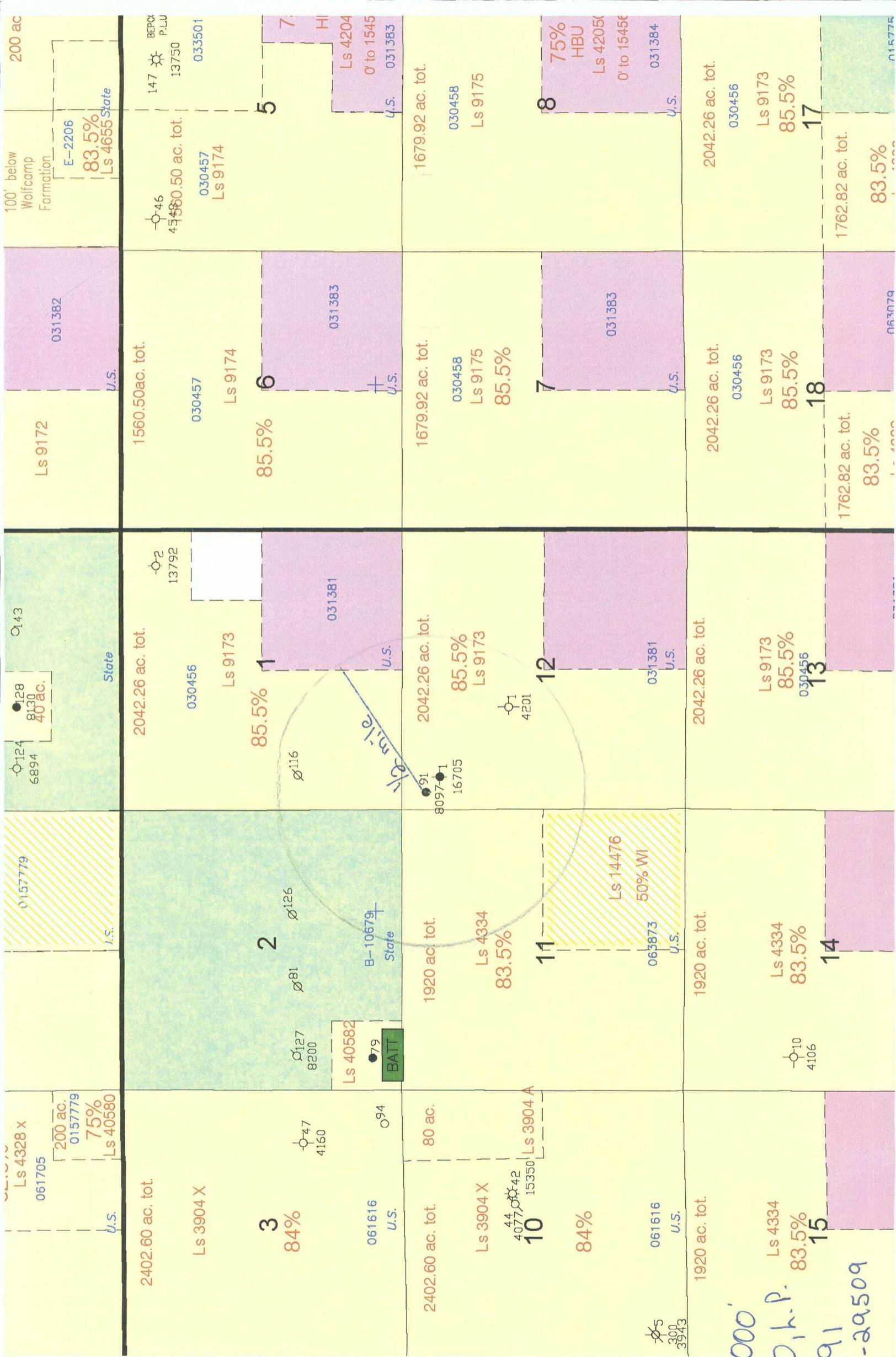
BOPCO, L.P. has applied to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water or other oil and gas waste into a porous formation that is not productive of oil or gas.

The applicant proposes to dispose of produced water or other oil and gas waste into the Poker Lake Unit #91 (Delaware Formation). The maximum injection pressure will be 836 psi and the maximum rate will be 2,500 bbls produced water/day. The proposed disposal well is located 13 miles southeast of Magdalena, New Mexico in Section 17, T25S, R30E, Eddy County, New Mexico. The produced salt water will be disposed of a subsurface depth of 4,180-4,065 feet.

Any questions concerning this application should be directed to Sandra Belt, Regulatory Clerk, BOPCO, L.P., P.O. Box 2760, Midland, Texas 79702-2760, (432) 683-2777.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, New Mexico, 87505, with 15 days.

RECEIVED
APR 30 2010
BOPCO WTD PRODUCTION



1" = 2,000'
 BOPC O, h. P.
 PLU # 91
 30-015-29509

100' below Wolfcamp Formation
 E-2206
 83.5%
 Ls 4655 State
 147 BEPC P.L.U. 13750 033501
 45-46 1560.50 ac. tot. 030457 Ls 9174
 030457 Ls 9174
 5
 Ls 4204 0' to 1545 031383
 U.S. 031383
 1679.92 ac. tot. 030458 Ls 9175 85.5%
 030458 Ls 9175 85.5%
 75% HBHU Ls 4205 0' to 1545 031384
 U.S. 031384
 1679.92 ac. tot. 2042.26 ac. tot. 030456
 030456 Ls 9173 85.5%
 030456 Ls 9173 85.5%
 17
 1762.82 ac. tot. 030456 Ls 9173 85.5%
 030456 Ls 9173 85.5%
 18
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 29
 1762.82 ac. tot. 030456 Ls 9173 85.5%
 030456 Ls 9173 85.5%
 30
 1762.82 ac. tot. 030456 Ls 9173 85.5%
 030456 Ls 9173 85.5%

Jones, William V., EMNRD

From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Thursday, August 26, 2010 4:28 PM
To: Jones, William V., EMNRD
Subject: PLU 91 Disposal Permit; Missing Documents
Attachments: PLU 91 Missing Documents Newsp Article Plat Production History.pdf

Good afternoon Will – here are copies of the missing documents. You should already have the plats and newspaper article, but if not I have attached. Also, Carlos gave me the production curve or whatever it is called. Please let me know if I need to submit anything further. I thank you for your time and help. Have a good one.

Sandra J. Belt

Regulatory Clerk

BOPCO, L.P.

P O Box 2760

Midland Tx 79702-2760

432.686.2999 ext. 149

432.687.0329 (F)

sjbelt@basspet.com



Jones, William V., EMNRD

From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Tuesday, September 14, 2010 12:03 PM
To: Jones, William V., EMNRD
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Will do Will. There is someone in Ft. Worth working on it now and will let me know so that I can send out the waiver letters. Thanks and will be getting back w/u. Have a good one.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Tuesday, September 14, 2010 12:16 PM
To: Jones, William V., EMNRD; Belt, Sandra J.
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Sandra:

Two of your BOPCO Landman's were here today concerning another project and I asked them about your land map. They pointed out that the Section 1 and Section 2 areas referenced below are currently owned by different oil companies.

Please let me know your progress in obtaining waivers or providing notice to these two companies.

Regards,

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Jones, William V., EMNRD
Sent: Tuesday, September 14, 2010 8:14 AM
To: 'sjbelt@basspet.com'
Subject: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Hello Sandra:

I have your permit ready but in your application it has no statements as to who controls the minerals in the Delaware all around this disposal well.

You did send a colored plat with ownership percentages on it. Some acreage has no percentages listed.

Are those ownership percentages on this map for BOPCO?
Does Bass control the minerals in Section 2 to the NW?
What about the SE/4 of Section 1?

William V. Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



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Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, December 13, 2010 3:13 PM
To: 'Belt, Sandra J.'
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Hello Sandra:
Are you folks still interested in an SWD permit for this well?

Looks like the land folks never got back with you on the owners of the two tracts referenced below?
All I am lacking to release this permit is proof of notice to the owners of those two tracts of land.

*SHOULD BE READY
TO RE-OPEN
R 1/13/11*

FYI: the permit would require:

- a. Run tie-in casing from surface to the 4170 feet cutoff point and circulate with cement.
- b. Squeeze cement to close the open annulus from 6065 feet to 6280 feet or otherwise show it is already squeezed.

Let me know.

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

*DEVON
is only other
NOTICE*

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New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

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Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, December 23, 2010 11:23 AM
To: 'Belt, Sandra J.'
Cc: Ezeanyim, Richard, EMNRD
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Hello Sandra:

Please send the proof of notice (sending the C-108 application) to Devon for this well and I will schedule it for release.

Regards,

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

Release 1/21/11

From: Jones, William V., EMNRD
Sent: Monday, December 13, 2010 3:13 PM
To: 'Belt, Sandra J.'
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Hello Sandra:

Are you folks still interested in an SWD permit for this well?

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FYI: the permit would require:

- a. Run tie-in casing from surface to the 4170 feet cutoff point and circulate with cement.
- b. Squeeze cement to close the open annulus from 6065 feet to 6280 feet or otherwise show it is already squeezed.

Let me know.

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

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To: Jones, William V., EMNRD
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

Will do Will. There is someone in Ft. Worth working on it now and will let me know so that I can send out the waiver letters. Thanks and will be getting back w/u. Have a good one.

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Sent: Tuesday, September 14, 2010 12:16 PM

To: Jones, William V., EMNRD; Belt, Sandra J.

Subject: RE: Disposal application from BOPCO, LP: PLU #91 30-015-29509

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Will Jones

New Mexico

Oil Conservation Division

[Images](#) [Contacts](#)

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William V Jones, P.E.

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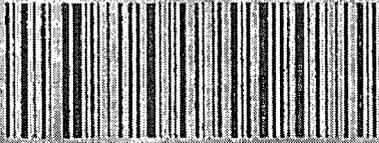
Jones, William V., EMNRD

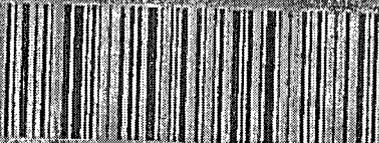
From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Monday, January 17, 2011 7:56 AM
To: Jones, William V., EMNRD
Subject: PLU #91; Certification Notification/Signed & Received
Attachments: Offset Certification Notification.pdf

Good morning Will – attached please find where the documents were received for Devon and Exxon. U have a good day.

Sandra J. Belt

*Regulatory Clerk
BOPCO, L.P.
P O Box 2760
Midland Tx 79702-2760
432.686.2999 ext. 149
432.687.0329 (F)
sjbelt@basspet.com*

2. Article Number		COMPLETE THIS SECTION ON DELIVERY	
 7160 3901 9846 3454 9784		A. Received by (Please Print Clearly)	B. Date of Delivery
		C. Signature X <i>[Signature]</i> <input type="checkbox"/> Agent Addressee	
3. Service Type CERTIFIED MAIL		D. Is delivery address different from item 1? If YES, enter delivery address below.	
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		1. Article Addressed to: Davo Energy Production Co., L.P. Attn: James Felder 20 W. Broadway Suite 1500 Oklahoma City, OK 73102	
1. Article Addressed to:		PLU 91 Notification Offset Opr 1.6.11	
PS Form 3811, January 2005		Domestic Return Receipt	

2. Article Number		COMPLETE THIS SECTION ON DELIVERY	
 7160 3901 9846 3454 9573		A. Received by (Please Print Clearly)	B. Date of Delivery
		C. Signature X <i>[Signature]</i> JAMES FELDER <input type="checkbox"/> Agent Addressee	
3. Service Type CERTIFIED MAIL		D. Is delivery address different from item 1? If YES, enter delivery address below.	
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		1. Article Addressed to: Exxon Mobil Corp Attn: J. Felder P.O. Box 4367 Houston Tx 77210	
1. Article Addressed to:		PLU 91 Notification Offset Opr 1.6.11	
PS Form 3811, January 2005		Domestic Return Receipt	

Injection Permit Checklist (08/27/2010)

WFX _____ PMX _____ SWD 12/15/10 Permit Date 12/15/10 UIC Qtr (A/S/O)

Wells 1 Well Name(s): Pocahontas Unit # 91

API Num: 30-0 15-29509 Spud Date: 3/15/77 New/Old: N (UIC primacy March 7, 1982)

Footages 330 FNL/330 FWL Unit D Sec 12 Tsp 25 S Rge 30 E County EDDY

General Location: MIDDLE of Del. BASIN

Operator: BP/CO, L.P. Contact Sandra Belle

OGRID: 260737 RULE 5.9 Compliance (Wells) 2/95 (Finan Assur) IS 5.9 OK? OK

Well File Reviewed _____ Current Status: PEA

Planned Work to Well: Run 5/2 to 4170 Tie IN

Diagrams: Before Conversion _____ After Conversion _____ Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New ___ Existing ___ Surface	<u>14 3/4</u>	<u>11 3/4</u>	<u>1079</u>		<u>625 SX</u>	<u>CIRC</u>
New ___ Existing ___ Interm	<u>11</u>	<u>8 5/8</u>	<u>470</u>		<u>1350</u>	<u>1356 T.S.</u>
New ___ Existing ___ LongSt	<u>7 7/8</u>	<u>5 1/2</u>	<u>8097</u>	<u>5019</u>	<u>300/400</u>	<u>6280 CBL/4200 T.S.</u>
New ___ Existing ___ Liner					<u>440/300</u>	<u>5220 T.S.</u>
New ___ Existing ___ OpenHole						

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>4088</u>	<u>Del</u>	<input checked="" type="checkbox"/>
Injection TOP:	<u>4180</u>	<u>Del.</u>	Max. PSI <u>836</u> Open Hole <input checked="" type="checkbox"/> Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	<u>6065</u>	<u>Del.</u>	Tubing Size <u>27 1/8</u> Packer Depth <u>4130</u>
Formation(s) Below	<u>7894</u>	<u>Base Spig</u>	<input checked="" type="checkbox"/>

Capitan Reef? _____ (Potash? _____ Noticed? _____) [WIPP? _____ Noticed? _____] Salado Top/Bot _____ Cliff House? _____

Fresh Water: Depths: 938' - 1255' Formation Russlar Wells? 1/2 Analysis? _____ Affirmative Statement

Disposal Fluid Analysis? Sources: Del.

Disposal Interval: Analysis? _____ Production Potential/Testing: Depleted / tested

Notice: Newspaper Date 4/20/10 Surface Owner BLM Mineral Owner(s) _____

RULE 26.7(A) Affected Persdns: _____

AOR: Maps? Well List? Producing in Interval? No Wellbore Diagrams? _____

.....Active Wells 0 Repairs? _____ Which Wells? _____

.....P&A Wells 2 Repairs? _____ Which Wells? Run Train CSE/CIRC Permit

Questions: 1) Cmp Retention
2) Size 6181 just below 6065' SPZ Hole Request Sent 8/11 Reply: 8/26/10