

1/25/06 DATE IN	2/9/06 SUSPENSE	DRC ENGINEER	2/13/06 LOGGED IN	WFX TYPE	PDRC0604447763 APP NO.
--------------------	--------------------	-----------------	----------------------	-------------	---------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



818

**ADMINISTRATIVE APPLICATION CHECKLIST**

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 \_\_\_\_\_
- [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.**

Print or Type Name	Signature	Title	Date
		e-mail Address	

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE : ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Latigo Petroleum, Inc.  
ADDRESS : 550 W. Texas, Suite 700 Midland TX 79701  
CONTACT PARTY : Lisa Hunt PHONE : (432)684-4293
- 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 Order No. R-9337
- 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: Lisa Hunt TITLE: Regulatory Analyst  
SIGNATURE: Lisa Hunt DATE: 01/18/2006  
E-MAIL ADDRESS: lhunt@latigopetro.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.

## INJECTION WELL DATA SHEET

OPERATOR: Latigo Petroleum, Inc.WELL NAME & NUMBER: Central Corbin Queen Unit #105WELL LOCATION: 2310 FSL & 2310 FEL J 9 18S 33E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 12-1/4" Casing Size: 8-5/8"Cemented with: 250 sx. or  ft<sup>3</sup>Top of Cement: Surface Method Determined: Circ.Intermediate CasingHole Size:  Casing Size: Cemented with:  sx. or  ft<sup>3</sup>Top of Cement:  Method Determined: Production CasingHole Size: 7-7/8" Casing Size: 5-1/2"Cemented with: 850 sx. or  ft<sup>3</sup>Top of Cement: Surface Method Determined: Circ.Total Depth: 4400'Injection Interval4.274 feet to 4.294 (Perfs)

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**Tubing Size: 2-3/8" Lining Material: IPCType of Packer: Arrowset 1XPacker Setting Depth: 4,212'Other Type of Tubing/Casing Seal (if applicable): N/A**Additional Data**

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes X No

If no, for what purpose was the well originally drilled? Oil Producer

2. Name of the Injected Formation: Queen

3. Name of Field or Pool (if applicable): Corbin Queen Central

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: \_\_\_\_\_

Yates 3000'

Seven Rivers 3408'

Queen 4160'

# Well Schematic and History

Lease: CCQU Well: 105 Field: Corbin  
Location: 2310' From South line and 2310' From East line  
Unit J, Section 9 - T18S - R33E County: Lea State: New Mexico

API No.: 30-025-29898

Spud Date: 5/15/1987  
Compl. Date: 6/10/1987

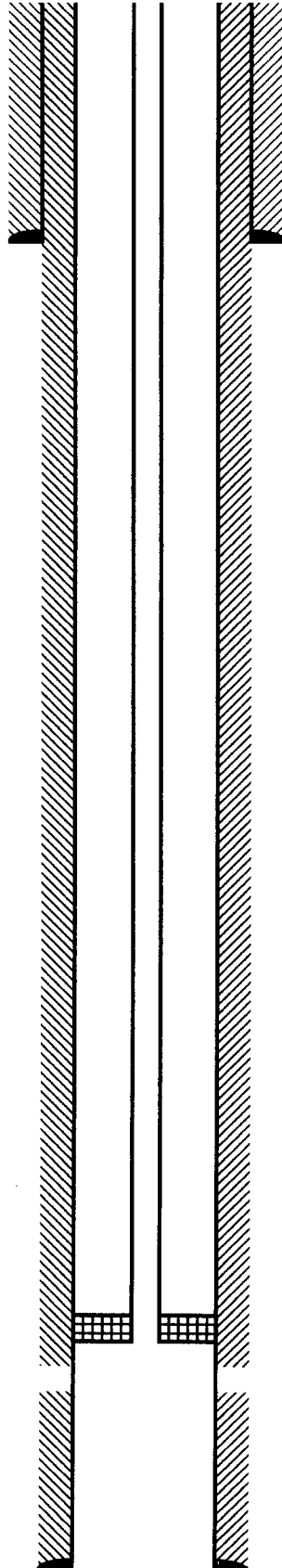
GL: 3967'  
DF: \_\_\_\_\_  
KB: \_\_\_\_\_

## SURF CSG

8 5/8" 24# @ 380'  
Cmt'd w/ 250 sx (12 1/4" hole)  
TOC @ surface by circ.

DATE INITIAL COMPLETION DATA:

5/1987 PERFs 4274'-94' w/ 2 ispf (40 holes total)  
Acidized w/ 1000 gal. 15% HCl  
Frac'd w/ 40,000# sand  
IP 105 BO, 70 BW



Queen perms 4274-4294'

Packer @ 4212'

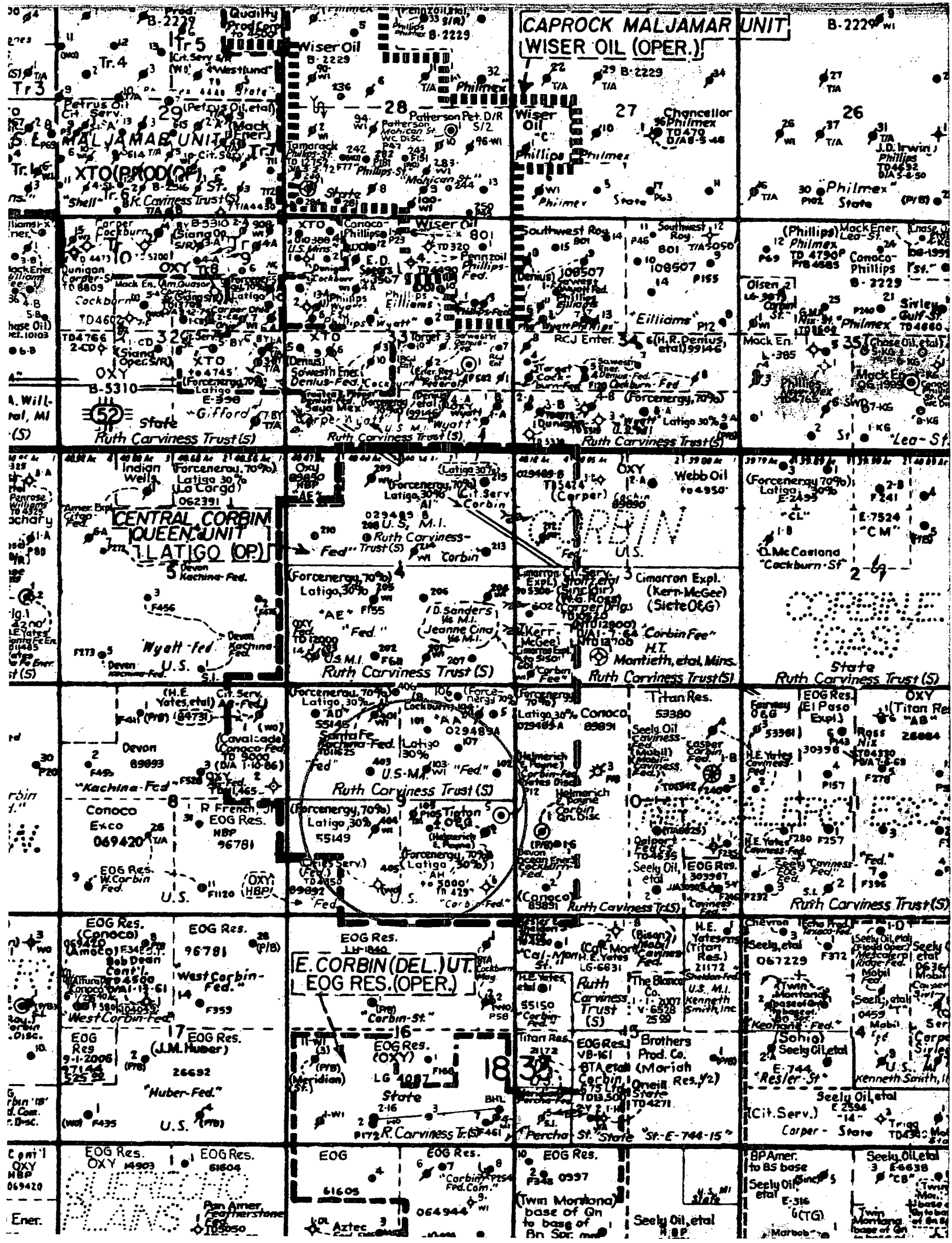
## PROD CSG

5 1/2" @ 4400'  
Cmt'd w/ 850 sx (7 7/8" hole)  
TOC @ 389' by CBL

PBTD 4322'

CENTRAL CORBIN QUEEN UNIT #105  
Injection Application Data

Well	Location	Surface Casing	Inter. Casing	Prod. Casing	TD	Completions	Type	P&A
CCQU #105 Spud 5/16/87	Sec. 9-T18S-R33E Unit J 2310' FSL & 2310' FEL	12-1/4" hole size 8-5/8" @ 380' Cmt w/ 250 sx circ to surf		7-7/8" hole size 5 1/2" @ 4400' Cmt w/ 850 sx circ to surf	TD 4401' PBTD 4400'	4274'-4294	Oil to Inj	TAD CIBP @ 4199'





---

## Application for Authorization to Inject

---

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed injection well, the Central Corbin Queen Unit #105. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. This project is part of a re-patterning of the existing Central Corbin Queen Unit waterflood, authorized under Order No. R-9337.
- VII. The proposed average daily injection rate for the subject well is 250 BWPD; the maximum daily injection rate would be 500 BWPD. This is an open system with an average pressure of 850 and a maximum pressure of 900 psi. Only produced water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a Permian-age sand known as the Queen. The main zone is the upper part of the Queen, known locally as the Shattuck member. The top of the Queen in this well is at 4,160', and is approximately 50' thick. The zone is perforated from 4,274' - 4,294'. The source of fresh water in this area comes from the Ogallala formation, the base of which is at approximately 350'. There are no known sources of drinking water underlying the injection interval.
- IX. After perforation, the well will be stimulated with 2000 gallons of 15% NEFE HCl and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well approximately 1 mile northwest of the proposed injector. This is the only well which could be located.
- XII. Latigo Petroleum has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.
-

CENTRAL CORBIN QUEEN UNIT #105  
Offset wells

Well	Location	Surface Casing	Inter. Casing	Prod. Casing	TD	Completions	Type	Comments
CCQU #101 Spud 10/31/84	Sec. 9-T18S-R33E Unit B 990' FNL & 1980 FEL	17-1/2" hole 13-3/8" @ 430' Cmt w/420 sx circ to surf	12-1/4" hole 9-5/8" @ 5100' Cmt w/3300 sx circ to surf	7-7/8" hole 5-1/2" @ 13,825' Cmt w/3100 sx cmt TOC 3600'	TD 13,825' PBTD 4850'	4228'-4238'	Oil to Inj	CIBP set @ 4900' w/3 sx cmt on top
CCQU #102 Spud 6/15/85	Sec. 9-T18S-R33E Unit H 1980 FNL & 430' FEL	12-1/4" hole 8-5/8" csg @ 380' Cmt w/300 sx circ to surf		7-7/8" hole 5-1/2" @4366' Cmt w/1550 sx circ to surf	TD 4375' PBTD 4339'	4270'-4282'	Oil to Inj	
CCQU #103 Spud 8/19/86	Sec. 9-T18S-R33E Unit G 1980' FNL & 1980' FEL	8-5/8" @ 360' Cmt w/400 sx		5 1/2" @ 4350' Cmt w/ 1400 sx	TD 4350' PBTD 4314'	4236'-4262'	Inj	
CCQU #104 Spud 9/19/86	Sec. 9-T18S-R33E Unit A 660' FNL & 790' FEL	8-5/8" @ 375' Cmt. w/ 300 sx		5-1/2" @ 4325' Cmt w/ 1400 sx	TD 4325' PBTD 4312'	4213'-4242' 4244'-4254'	Inj	
CCQU #107 Spud 9/22/04	Sec. 9-T18S-R33E Unit H 1400' FNL & 1307' FEL	14" Conductor @ 40'	8-5/8" @ 411' Cmt w/234 sx	5-1/2" @ 4332' Cmt w/1815 sx cmt	TD 4332' PBTD 4266'	4212'-4259'	Oil	
CCQU #401 Spud 7/1/85	Sec. 9-T18S-R33E Unit C 660' FNL & 1980' FWL	8-5/8" @ 369' Cmt w/350 sx		5-1/2" @ 4310' Cmt w/1150 sx	TD 4310' PBTD 4256'	4206'-4232'	Inj	
CCQU #403 Spud 12/23/85	Sec. 9-T18S-R33E Unit F 1980' FNL & 1980' FWL	8-5/8" @ 362' Cmt w/300 sx		5 1/2" @ 4319' Cmt w/ 1450 sx	TD 4320' PBTD 4276'	4245'-4253'	Oil	
CCQU #404 Spud 9/10/86	Sec. 9-T18S-R33E Unit K 1980' FSL & 1980' FWL	8-5/8" @ 351' Cmt w/300 sx		5 1/2" @ 4350' Cmt w/ 1400 sx	TD 4350' PBTD 4287'	4258'-4271' 4250'-4252'	Inj	
CCQU #405 10/27/1987	Sec. 9-T18S-R33E Unit N 660' FSL & 2055' FWL	8-5/8" @ 373' Cmt w/300 sx		5 1/2" @ 4352' Cmt w/1525 sx	TD 4352' PBTD 4165'	4275'-4291'	Oil	P&A 12/6/02 API # 30-025-29813
Federal AH #4 Spud 5/15/45	Sec. 9-T18S-R33E Unit J 1980' FSL & 1980' FEL	12-3/4" @ 275' w/150 sx or 13-3/8" @ 277 Cmt. w/ 150 sx	8-5/8" @ 1450' or 1539' Cmt w/600 or 625 sx	5-1/2" @ 4324' Cmt w/ 215 sx	TD 4324 PBTD 3520'	3535'-3560' 3468'-3488	Oil	
Federal AH #5 Spud 9/18/51	Sec. 9-T18S-R33E Unit I 2310' FSL & 330' FEL	7" @ 1530' Cmt w/50 sx		5-1/2" @ 3417' Cmt w/ 50 sx	TD 4305' PBTD 3464'	4262'-4294 3448'-3464'	Oil	
Kachina 9 Federal #1 Spud 11/92	Sec. 9-T18S-R33E Unit C 490' FNL & 2131" FWL	13 3/8" @ 468' Cmt. w/ 500 sx	8-5/8" @ 4349' Cmt w/ 1700 sx	5 1/2" @ 11,625' Cmt w/950 sx	TD 11,625'	8752'-11,484'		P&A-Dry hole API # 30-025-31787
Pre-Ongard Well #2 Spud 8/6/40	Sec. 9-T18S-R33E Unit I 1980' FSL & 660' FEL	10-3/4" @ 264' Cmt w150 sx		5-1/2" @ 4228' Cmt w/528 sx	TD 4350'	Open hole 4228'-4350'		P&A API # 30-025-01595
Pre-Ongard Well #3 Spud N/A	Sec. 9-T18S-R33E Unit A 660' FNL & 660' FEL							Never drilled Federal AE #7 API # 30-025-29301

CENTRAL CORBIN QUEEN UNIT #105  
Offset wells

Pre-Ongard Well #6 Spud 1955	Sec. 9-T18S-R33E Unit P 660' FSL & 660' FEL							P&A 8/2/05 API # 30-025-01592
---------------------------------	---	--	--	--	--	--	--	-------------------------------------

# Well Schematic and History

Lease: CCQU Well: 405  
Location: 660' From South line & 2055' From West line  
Unit N, Section 9 - T18S - R33E

Field: Corbin

County: Lea State: New Mexico

API No.: 30-025-29813

Spud Date: 12/19/1986

Compl. Date: \_\_\_\_\_

GL: 3926'  
DF: \_\_\_\_\_  
KB: \_\_\_\_\_

15 sx surface plug

## SURF CSG

8 5/8" 24# J55 @ 373'

Cmt'd w/ 300 sx (12 1/4" hole)

TOC @ surface by circ.

Santa Rosa perfs 432-472'

25 sx @ 525', tag top @ 248'

Santa Rosa perfs 855-1085'

25 sx @ 1135'

25 sx @ 1620'

25 sx @ 2915'

CIBP @ 4200' w/ 35' cement

Queen perfs 4275-4291'

## PROD CSG

5 1/2" 14# J55 @ 4352'

Cmt'd w/ 1525 sx (7 7/8" hole)

TOC @ surface by circ.

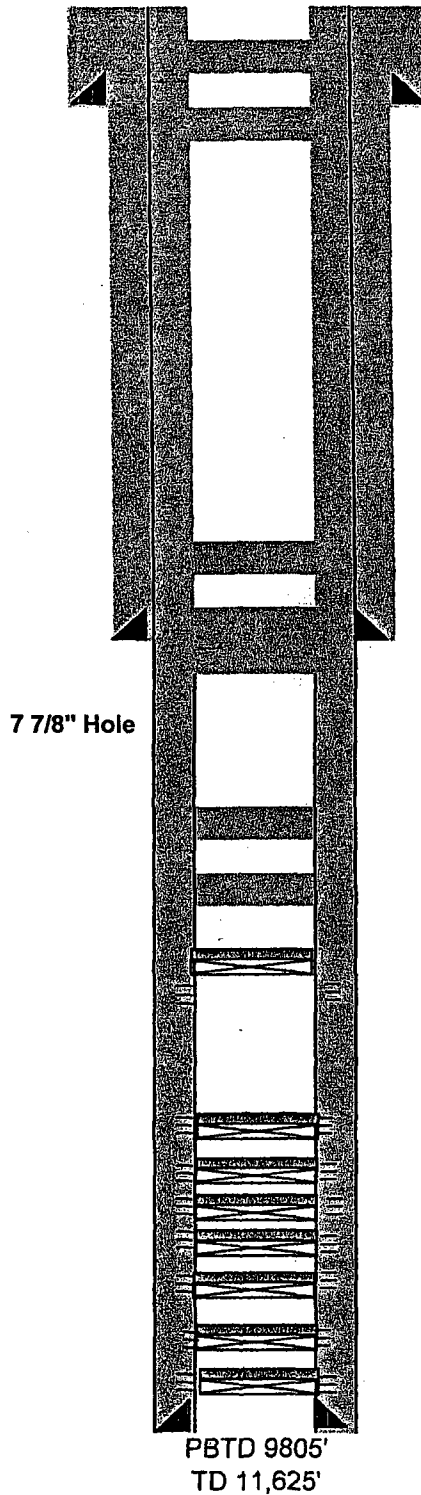
DATE: 7/27/98

PREPARED BY: JNC

# Kachina 9 Federal #1

740' FNL & 1730' FWL  
Sec9, T18S, R33E Unit C  
Lea County, NM  
API No. 30-025-31787

Spud Date: 11/23/92



## 17 1/2" Hole

10 sx cmt plug 2 jts down, circ to surf  
13 3/8" csg @ 468' w/500  
sx cmt, circ 25 sx to pit  
30 sx cmt plug 520'

20 sx cmt plug 1450' - 1550'

## 12 1/4" Hole

Set 8 5/8" 32# csg @ 4349' w/1700  
sx cmt, circ 30 sx cmt to pit

30 sx cmt plug @ 3450'

140 sx cmt plug @ 4450'

55 sx cmt plug @ 5450'

65 sx cmt plug 6950'

Set CIBP @ 8715', spot 20 sx cmt  
Perf Bone Springs 8752' - 8780'

Set CIBP @ 9840', cap w/35' cmt

Perf Wolfcamp 10,704' - 10730'

Set CIBP @ 10,780', cap w/10' cmt

Perf Wolfcamp 10,798' - 10804'

Set CIBP @ 10,960, cap w/10' cmt

Perf Wolfcamp 10,975' - 11,034'

Set CIBP 11,200', cap w/35' cmt

Perf Wolfcamp 11,214' - 11266'

Set CIBP @ 11,295', cap w/10' cmt

Perf Wolfcamp 11,304' - 11,337'

Set CIBP @ 11,360', cap w/10' cmt

Perf Wolfcamp 11,368' - 11,436'

Set CIBP @ 11,4650' cap w/10' cmt

Perf Wolfcamp 11,478' - 11,484'

Set 5 1/2" 17# csg @ 11,625'

w/950 sx cmt, circ

H&P - CORBIN FEDERAL #2  
1980' FSL & 660' FEL SEC 9 T18S R33E  
LEA COUNTY, NEW MEXICO

ELEVATION: KB: N.A.  
GL: 3982'

DATE DRILLED : 10/40

10 3/4" SURFACE CASING @ 264'  
CMTD W/ 150 SX CMT CIRC

500 SX PLUG (825' - 0')

	SURFACE	PRODUCTION	
SIZE	10 3/4"	5 1/2"	
WEIGHT	N.A.	N.A.	
GRADE	N.A.	N.A.	
THREAD	N.A.	N.A.	
DEPTH	264'	4228'	

200 SX PLUG (4228' - 2278')

5 1/2" CSG @ 4228' CMTD W/ 528 SX

PREPRD BY: SCOTT E. GENGLER  
DATE : JULY 24, 1990

TD @ 4350'

# Well Schematic and History

Lease: Corbin Well: 6 Field: Corbin Queen  
Location: 660' From South line and 660' From East line  
Unit P, Section 9 - T18S - R33E County: Lea State: New Mexico

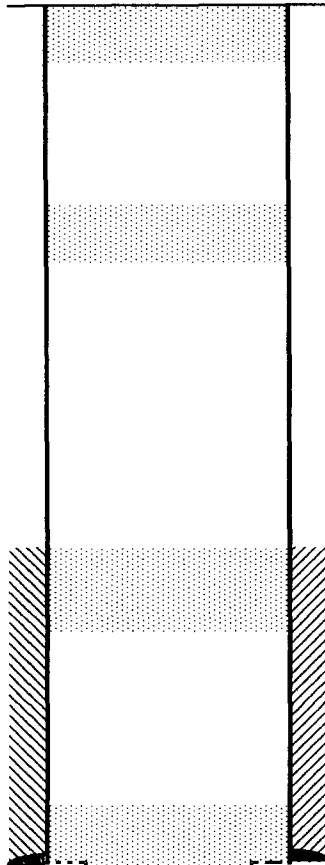
API No.: \_\_\_\_\_

Spud Date: 5/1955  
Compl. Date: \_\_\_\_\_

GL: 3849'  
DF: \_\_\_\_\_  
KB: \_\_\_\_\_

## SURF CSG

8 5/8" 23# @ 558'  
Cmt'd w/ 875 sx (11" hole)  
TOC estimated @ 1150'



Perf @ 50'  
Squeeze w/ 25 sx  
Left cement @ surfac

Perf @ 300'  
Squeeze w/ 60 sx cmt  
Tagged plug @ 220'

Perf @ 1135', C/N pump in  
Spot 35 sx cmt @ 1185'  
Tagged plug @ 1060'

Spot 40 sx cmt @ 1602'  
Tagged plug @ 1450'

Spot 25 sx cmt @ 2850'  
Tagged plug @ 2744'

Could not clean out below 2850'

## PROD CSG

None set

Open hole 558-4927'

DATE: 2/23/05

OMEGA TREATING CHEMICALS, INC.  
2605 GARDEN CITY HYW.  
MIDLAND, TEXAS 79701

WATER ANALYSIS REPORT

COMPANY NAME: LATIGO

LEASE NAME: CQU INJECTION STATION

WELL#\SAMPLE POINT:

1. WELLHEAD pH	7.36
2. H2S (QUALITATIVE)	0.00 PPM
3. CALCIUM (Ca)	2520.00 Mg/L
4. MAGNESIUM (Mg)	3013.20 Mg/L
5. IRON (Fe)	5.43 PPM
6. SODIUM	59723.23 Mg/L
7. CHLORIDE (Cl)	103660.00 Mg/L
8. BICARBONATE (HCO3)	244.00 Mg/L
9. SULFATE (SO4)	2191.0 Mg/L
10. TOTAL HARDNESS	18700.00 Mg/L
11. TOTAL DISSOLVED SOLIDS	171356.86 Mg/L
12. RESISTIVITY	0.04
13. CARBONATE SCALING TENDENCY	0.91
14. SULFATE SCALING TENDENCY	-33.80

BOPD \_\_\_\_

BWPD \_\_\_\_

REMARKS: \_\_\_\_\_

COPIES TO: \_\_\_\_\_



DATE: 2/23/05

OMEGA TREATING CHEMICALS, INC.  
2605 GARDEN CITY HYW.  
MIDLAND, TEXAS 79701

WATER ANALYSIS REPORT

COMPANY NAME: LATIGO

LEASE NAME: 3C WATER STATION

WELL#\SAMPLE POINT:

1. WELLHEAD pH	7.71
2. H2S (QUALITATIVE)	0.00 PPM
3. CALCIUM (Ca)	640.00 Mg/L
4. MAGNESIUM (Mg)	340.20 Mg/L
5. IRON (Fe)	0.54 PPM
6. SODIUM	615.49 Mg/L
7. CHLORIDE (Cl)	1420.00 Mg/L
8. BICARBONATE (HCO3)	61.00 Mg/L
9. SULFATE (SO4)	5.6 Mg/L
10. TOTAL HARDNESS	3000.00 Mg/L
11. TOTAL DISSOLVED SOLIDS	3082.83 Mg/L
12. RESISTIVITY	1.41
13. CARBONATE SCALING TENDENCY	0.62
14. SULFATE SCALING TENDENCY	-23.43

BOPD \_\_\_\_

BWPD \_\_\_\_

REMARKS: \_\_\_\_\_

COPIES TO: \_\_\_\_\_

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Daniel Russell

Editor

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of \_\_\_\_\_

1 issue(s).

Beginning with the issue dated 5

December 17, 2005

and ending with the issue dated

December 17, 2005

*Daniel Russell*

Editor

Sworn and subscribed to before

11th day of

January, 2006

*Dora Montz*  
Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

**LEGAL NOTICE**  
**December 17, 2005**

**Conversion To Water Injection Well**

Latigo Petroleum, 550 W. Texas, Fasken Tower II, Suite 700, Midland, Texas 79701, 432-684-4293, contact Lisa Hunt, has made application for a water injection well with the New Mexico Oil Conservation Commission. The well, known as the Central Corbin Queen Unit #105, is located 2310' FSL and 2310' FEL, UL J, Sec. 9-T18S-R33E, Lea County, New Mexico. Disposal will be into the Queen zone through perforations from 4,274' - 4,294'. Maximum rate and pressure is anticipated to be 500 BWPD and 900 PSI. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Commission, 1220 South Saint Francis, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice.  
#22023

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

67100898  
LISA HUNT  
LATIGO PETROLEUM  
550 W. TEXAS, STE 700  
MIDLAND, TX 79701

67535051



Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

*VIA CERTIFIED MAIL / RETURN RECEIPT REQUESTED*

January 3, 2006

Caviness Cattle Company  
HC-71, Box 177  
Maljmar, NM 88260

Re: **Notification of Intent to Inject -**  
Central Corbin Queen Unit #105  
UL J; 2310' FSL & 2310' FEL; Sec 9-T18S-R33E  
Lea County, New Mexico

To Whom It May Concern:

Latigo Petroleum has submitted an application to the New Mexico Oil Conservation Division requesting authority to inject water into our Central Corbin Queen Unit #105.

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators within a one-half mile radius of the proposed injection well be sent copies of the Application for Authority to Inject. In compliance with this requirement, you will find copies of the application attached to this letter.

Any objections or requests for hearings must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. If any questions arise concerning this matter, please contact me at (432) 684-4293.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Hunt".

Lisa Hunt  
Regulatory Analyst

Attachments

7004 1160 0000 4929 1721

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL

7004 1160 0000 4929 1721  
7004 1160 0000 4929 1721

U.S. Postal Service

## CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com.

## OFFICIAL USE

Postage \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)Restricted Delivery Fee  
(Endorsement Required)

Total Postage &amp; Fees \$

Postmark  
Here

Sent To

Caviness Cattle Company

Street, Apt. No.,  
or PO Box No.

HC-71, Box 177

City, State, ZIP+4

Maljmar, NM 88260

PS Form 3800, June 2002

See Reverse for Instructions

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Caviness Cattle Company  
HC-71, Box 177  
Maljmar, NM 88260

2. Article Number

(Transfer from service label)

7004 1160 0000 4929 1721

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Caviness Cattle Company  
HC-71, Box 177  
Maljmar, NM 88260

2. Article Number

(Transfer from service label)

7004 1160 0000 4929 1721

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Ross Caviness

☐ Agent☐ Addressee

B. Received by (Printed Name)

ROSS CAVINESS

C. Date of Delivery

1/11/06

D. Is delivery address different from item 1? ☒ Yes  
If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes



Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

*VIA CERTIFIED MAIL / RETURN RECEIPT REQUESTED*

January 3, 2006

Devon Louisiana Corporation  
20 North Broadway, Ste. 1500  
Oklahoma City, OK 73102

Re: **Notification of Intent to Inject -**  
Central Corbin Queen Unit #105  
UL J; 2310' FSL & 2310' FEL; Sec 9-T18S-R33E  
Lea County, New Mexico

To Whom It May Concern:

Latigo Petroleum has submitted an application to the New Mexico Oil Conservation Division requesting authority to inject water into our Central Corbin Queen Unit #105.

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators within a one-half mile radius of the proposed injection well be sent copies of the Application for Authority to Inject. In compliance with this requirement, you will find copies of the application attached to this letter.

Any objections or requests for hearings must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. If any questions arise concerning this matter, please contact me at (432) 684-4293.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Hunt".

Lisa Hunt  
Regulatory Analyst

Attachments

7004 1160 0000 4929 1714

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

CERTIFIED MAIL™

U.S. Postal Service™

## CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com

## OFFICIAL USE

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

Postmark  
Here

Sent To

Devon Louisiana Corporation

Street, Apt. No.,  
or PO Box No.

20 North Broadway, Ste. 1500

City, State, ZIP+4

Oklahoma City, OK 73102

PS Form 3800, June 2002

See Reverse for Instructions

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Louisiana Corporation  
20 North Broadway, Ste. 1500  
Oklahoma City, OK 73102

2. Article Number

(Transfer from service label)

7004 1160 00004929 1714

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Louisiana Corporation  
20 North Broadway, Ste. 1500  
Oklahoma City, OK 73102

2. Article Number

(Transfer from service label)

7004 1160 00004929 1714

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

LUKE DAVID

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes



Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

*VIA CERTIFIED MAIL / RETURN RECEIPT REQUESTED*

January 3, 2006

Tipton Oil & Gas Acquisitions, Inc.  
P.O. Box 1234  
Lovington, NM 88260

Re: **Notification of Intent to Inject -**  
Central Corbin Queen Unit #105  
UL J; 2310' FSL & 2310' FEL; Sec 9-T18S-R33E  
Lea County, New Mexico

To Whom It May Concern:

Latigo Petroleum has submitted an application to the New Mexico Oil Conservation Division requesting authority to inject water into our Central Corbin Queen Unit #105.

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators within a one-half mile radius of the proposed injection well be sent copies of the Application for Authority to Inject. In compliance with this requirement, you will find copies of the application attached to this letter.

Any objections or requests for hearings must be filed with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505. If any questions arise concerning this matter, please contact me at (432) 684-4293.

Sincerely,

A handwritten signature in cursive script that reads "Lisa Hunt".

Lisa Hunt  
Regulatory Analyst

Attachments

7004 1160 0000 4929 1738

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL™

7004 1160 0000 4929 1738  
7004 1160 0000 4929 1738

U.S. Postal Service™

## CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com®

## OFFICIAL USE

Postage \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)Restricted Delivery Fee  
(Endorsement Required)

Total Postage &amp; Fees \$

Postmark  
Here

Sent To

Tipton Oil &amp; Gas Acquisitions, Inc.

Street, Apt. No.,  
or PO Box No.

P.O. Box 1234

City, State, ZIP+4

Lovington, NM 88260

PS Form 3800, June 2002

See Reverse for Instructions

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Tipton Oil & Gas Acquisitions  
P.O. Box 1234  
Lovington, NM 88260

## 2. Article Number

(Transfer from service label)

7004 1160 0000 4929 1738

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

☐ Agent☐ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Tipton Oil & Gas Acquisitions  
P.O. Box 1234  
Lovington, NM 88260

## 2. Article Number

(Transfer from service label)

7004 1160 0000 4929 1738

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

☐ Agent☐ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes



## Inactive Well List

Total Well Count:250 Inactive Well Count:1 Since:11/21/2004

Printed On: Tuesday, February 14 2006

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	Days in TA
1	30-025-07542	STATE LAND SECTION 32 #008	I-32-18S-38E	I	227001	LATIGO PETROLEUM, INC.	S	O	12/1992			

WHERE Ogrid:227001, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15