# CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: PHILLIPS PETROLEUM CO. Well: LUSK DEEP UNIT A WELL No. 19

Contact: PAT CULPEPPER Title: ENG. Phone: 915-368-1542

DATE IN 11-4-93 RELEASE DATE 11-18-93 DATE OUT 11-18-93

Proposed Injection Application is for: ___ WATERFLOOD ___ Expansion ___ Initial

Original Order: R- _____ ___ Secondary Recovery ___ Pressure Maintenance

SENSITIVE AREAS X SALT WATER DISPOSAL

___WIPP X Capitan Reef ___ Commercial Operation

Data is complete for proposed well(s)? YES Additional Data _____

AREA of REVIEW WELLS

3 Total # of AOR @ 1 # of Plugged Wells

√ Tabulation Complete √ Schematics of P & A's

√ Cement Tops Adequate ___ AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) BELL CANYON

Source of Water PRODUCED - DELAWARE - TOKA - MORROW Compatible Y

PROOF OF NOTICE

√ Copy of Legal Notice √ Information Printed Correctly

√ Correct Operators √ Copies of Certified Mail Receipts

___ Objection Received ___ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact: X Telephoned ___ Letter 11-15 Date Nature of Discussion PLUGGED WELL INFO

2nd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

3rd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

RELEASE 11-16-93

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: PHILLIPS PETROLEUM COMPANY

Address: 4001 Penbrook, Odessa, Texas 79762

Contact party: Pat Culpepper Phone: 915/368-1542

III. Well data: Complete the data required on the reverse side of this form for each well proposed 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 source 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: Kevin Snow Title North District Prod. Engr. Supvr.

Signature: Kevin E. Snow Date: 10/28/93

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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.

Application for Authorization to Inject

PHILLIPS PETROLEUM COMPANY
LUSK DEEP UNIT A WELL NO. 14

III. WELL DATA

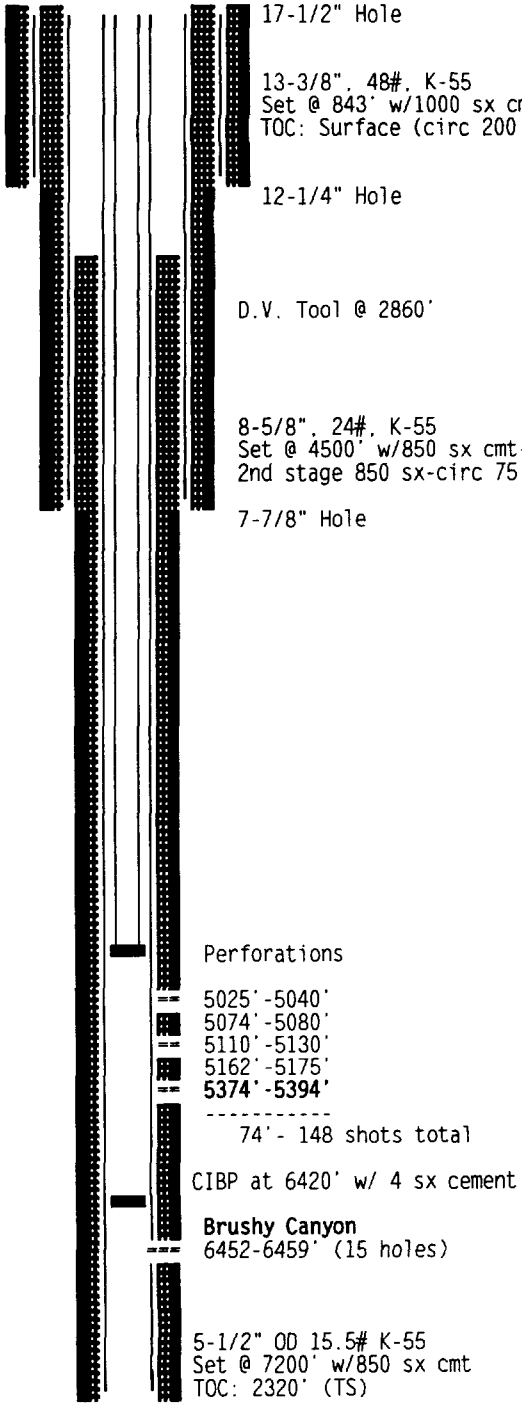
| | | | |
|---|---|---|---|
| A. | 1. | Name and Location: | Lusk Deep Unit A Well No. 14<br>330' FSL & 1980' FEL<br>Section 20, T-19-S, R-32-E<br>Lea County, New Mexico |
| | 2. | Casing<br>Surface: | 13-3/8" OD, 48# K-55 set at 843'. (17-1/2" hole). Cemented with 1000 sacks; TOC at surface (cement circulated). |
| | | Intermediate: | 8-5/8" 24# K-55 set at 4500'. (12-1/4" hole). Cemented with 1700 sacks. TOC at surface (cement circulated). |
| | | Production: | 5-1/2" 15.5# K-55 set at 7200'. (7-7/8" hole). Cemented with 850 sacks. TOC at 2320' (Temperature survey) |
| | 3. | Tubing: | 2-7/8" OD 6.5# and 2-3/8" OD 4.7# J-55 set at 4925'. Tubing to have Duoline 20 fiberglass insert. |
| | 4. | Packer: | Elder Sur-Lok Retrievable Packer set at 4925'. |
| B. | 1. | Formation: | Delaware (Bell Canyon), Lusk West |
| | 2. | Interval: | 5025'-5394' perforated selectively |
| | 3. | Original Intent: | Well was drilled for oil production |
| | 4. | Perforated Interval: | See Schematic (Attachment 1) |
| | 5. | Productive Zones: | Above the Bell Canyon are salts, anhydrites and shales. There are no productive zones above the Bell Canyon. Below the Bell Canyon there is one pay zone within the Cherry Canyon and 2 zones within the Brushy Canyon. Both of these zones are fine grain sandstones within the Delaware Mountain Group. Each of these zones are separated by shale and sandstone. |

III. WELL DATA SCHEMATIC

PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION
PROPOSED INJECTION SCHEMATIC
LUSK DEEP UNIT A WELL NO. 14

KB @ 3580.6 '
GL @ 3563.6 '

Area North Subarea Lovington Date October 8, 1993
Lease & Well No. Lusk Deep Unit-A #14 Spud Date: 11-02-88
Legal Description 330' FSL & 1980' FEL, Sec. 20, T-19-S, R-32-E
Lea County State: New Mexico
Field West Lusk Delaware
Status BOPD BWPD MCFD
Tbg. 2-3/8" and 2-7/8" J-55, Duoline, set at 4925'.
Elder Sur-Lok packer set at 4925'.




TD: 7,200'
PBTD: 7,155'

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Attachment 1

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

of the Hobbs Daily News-Sun, a daily 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

one weeks.
Beginning with the issue dated

October 20, 1993
and ending with the issue dated

October 20, 1993

Kathi Bearden
General Manager
Sworn and subscribed to before

me this 21 day of
October, 1993

Charlene Perrin
Notary Public.

My Commission expires
March 15, 1997
(Seal)

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.

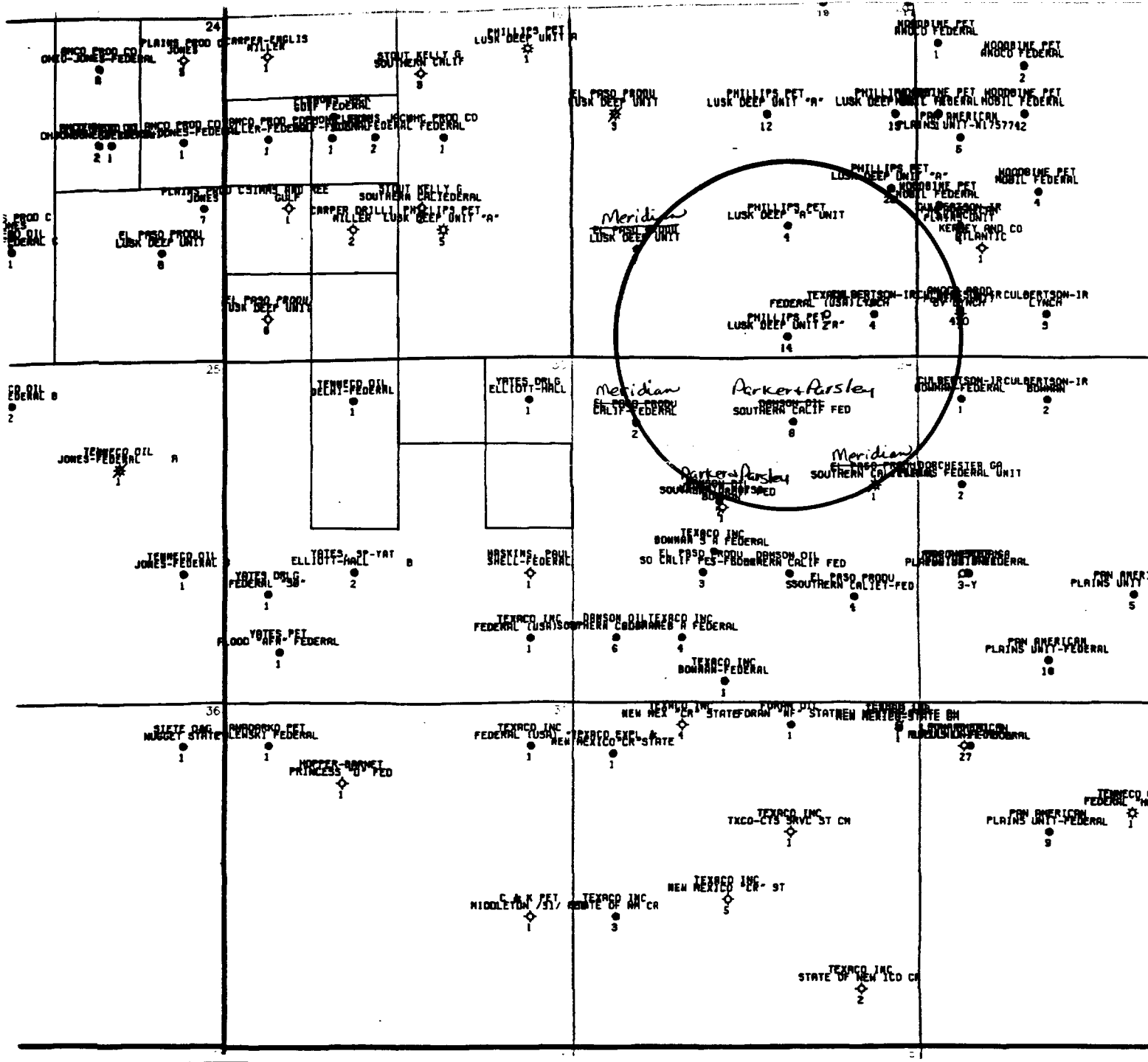
**LEGAL NOTICE**
**October 20, 1993**

Notice is hereby given of the application of Phillips Petroleum Company, 4001 Penbrook Street, Odessa, Texas 79762, Attn: L. M. Sanders, (915) 368-1488, to the Oil Conservation Division, New Mexico Energy and Mineral Department, for approval of the following Disposal well authorization for the purpose of Disposal:

Well name: Lusk Deep Unit A Well No. 14.

Location: 330 feet from the South line and 1980 feet from the East line. Section 20, T-19-S, R-32-E, Lea County, NM. The Disposal formation is Bell Canyon at a depth of 5025'-5394' below the surface of the ground.

Expected maximum injection rate is 500 bbls water




## MAP LEGEND

CULTURE DATA:
- STATE OUTLINE
- COUNTY OUTLINE
- TOWNSHIP
- SECTION — BLOCKS
- LOTS

USMF WELLS
- DRY HOLES
- OIL WELLS
- GAS WELLS
- GAS & CONDENSATE
- MULTIPLE COMP., OIL
- MULTIPLE COMP., GAS
- MULTIPLE COMP., GAS & COND
- MULTIPLE COMP., OIL & GAS
- JUNKED & ABANDONED
- INJECTION, SERVICE WELL
- DATA MISSING

SURFACE LOCATION

OPER
LSE

WNO

PHILLIPS 66

# PHILLIPS PETROLEUM COMPANY
EXPLORATION & PRODUCTION

## LUSK DEEP UNIT # 14

SEC.20 T-19-S, R-32-E
CREATED BY: LEE SUMMERS

V. 1/2 MILE RADIUS
OF PROPOSED WATER DISPOSAL
PHILLIPS PETROLEUM COMPANY

**APPLICATION FOR AUTHORIZATION TO INJECT**
**PHILLIPS PETROLEUM COMPANY**
**LUSK DEEP UNIT A WELL NO. 14**

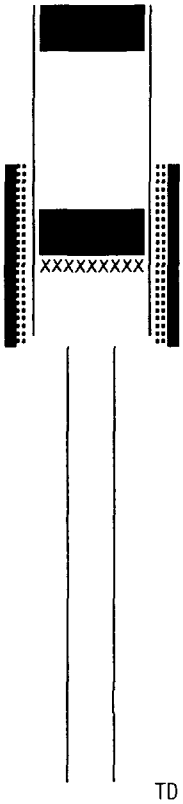
**VI. WELLS WITHIN THE AREA OF INTERIEST (1/2 MILE RADIUS OF INVESTIGATION)**

| Operator | Well Name | Location | Date Completed (DEPTH FT) | Well Type | Surface Casing Size (in) | Surface Casing Depth (ft) | Surface Casing Cement (sx) | Intermediate Casing Size (in) | Intermediate Casing Depth (ft) | Intermediate Casing Cement (sx) | Production Casing Size (in) | Production Casing Depth (ft) | Production Casing Cement (sx) | TOC (ft) | Initial Completion (zone) | Current Completio (zone) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Culbertson & Irwin, Inc.** | **Lynch #4 **** | 660' FSL & 660' FEL Sec 20, T-19-S, R-32-E Lea County, NM | 11 January 1943 (2820) | oil | 8-5/8 | 963 | 50 | | | | | | | | | plugged (ATTACHMENT 2) |
| **Damson Oil** | **Southern California Federal #8** | 990' FNL & 1900' FEL Sec 29, T-19-S, R-32-E Lea County, NM | 14 May 1988 (7200) | oil | 13-3/8 | 904 | 722 | 8-5/8 | 4504 | 2700 | 5-1/2 | 7192 | 800 | 4145 (C) | 6446'-6452' (Delaware) | unchanged |
| **Phillips Petroleum Company** | **Lusk Deep Unit A #4** | 1980' FEL & 1980' FSL Sec 20, T-19-S, R-32-E Lea County, NM | 12 December 1962 (11550) | oil | 13-3/8 | 822 | 1185 | 9-5/8 | 4226 | 2365 | 5-1/2 | 7165 | 500 | 5595 (TS) | 11430'-11470' (Strawn) | 6462'-6472' (Delaware) (ATTACHMENT 3) |

**- Did not penetrate proposed disposal zone

TS- Temperature Survey
C-Calculated w/50% Safety Factor

Operator Name: Culbertson & Irwin, et al.
Lease & Well No. Lynch # 4 Spud Date: 11/43
Legal Description 660' FSL & 660' FEL, Sec. 20, T-19-S, R-32-E
Lea County State: New Mexico




Date Completed: 11/3/43

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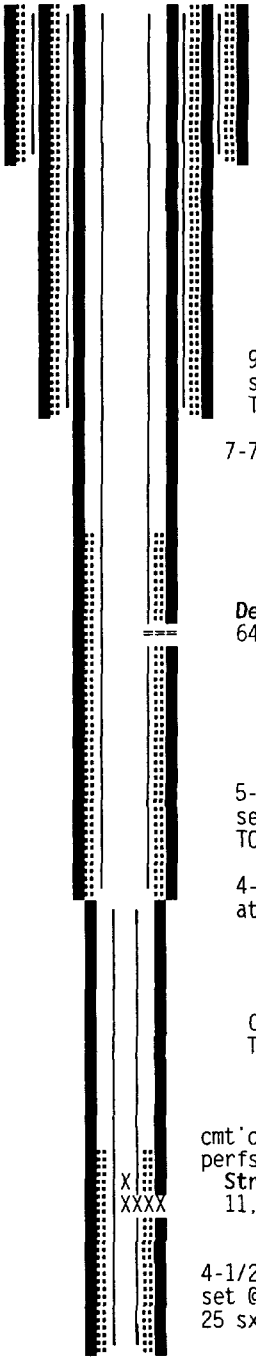
Attachment 2

WELL SERVICE APPROVAL
PHILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION

Lease & Well No. Lusk Deep Unit-A #4 Spud Date: 11/62
Legal Description 1980' FEL & 1980' FSL, Sec. 20, T-19-S, R-32-E
Lea County State: New Mexico



17-1/2" hole

13-3/8" csg set @ 822'

TOC: surface (circ.)
1185 SX
11" HOLE

9-5/8" 47# to 53.5# csg
set at 4226'
TOC: surface (CIR) 2365 SX

7-7/8" hole

**Delaware:**
6462-6472' (2 SPF) *current completion

5-1/2" OD K-55 15.5# LT&C
set @ 7165'
TOC @5595' (TS) 500sx

4-1/2" csg stub
at approx. 7192'

Calculated
TOC @ 10,750' @ (50% SF)

cmt'd w/25 sx over
perfs.
**Strawn:**
11,430-11,470'

4-1/2" OD 11.6# to 13.5# csg
set @ 11,531' w/300 sx
25 sx plug @ 11,430-11,470'

TD: 11,550'
PBTD: 7,141'

Hole/Casing Condition: Drld 11/62. P&A'D 10/71. Re-entered 5/88 & fished & pulled approx. 1700' of remaining 4-1/2" csg & ran 5-1/2" csg.

Strawn completed 12/12/1962 Gas well
Delaware completed 08/26/1988 Oil well

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Attachment 3

**Application for Authorization to Inject**

**PHILLIPS PETROLEUM COMPANY**
**LUSK DEEP UNIT A NO. 14**

VII. PROPOSED INJECTION OPERATIONS

| | | |
|---|---|---|
| 1. Rates: | average: | 150 |
| | *maximum:* | 500 |
| 2. System: | closed | |
| 3. Pressures: | average: | 500 psi |
| | *maximum:* | *1000 psi* |
| 4. Fluid: | Produced water analyses from the Phillips Lusk Deep A Battery (Delaware) ATTACHMENT 4, Lusk Deep No. 5 Well (Atoka/Morrow) ATTACHMENT 5 and Lusk Deep No. 13 (Atoka) ATTACHMENT 6. | |
| 5. Disposal Zone: | The Bell Canyon zone of the Delaware Mountain Group is composed of fine to medium grain sand interbedded with shale. Shows of oil or gas were not apparent in this interval of the Bell Canyon, and the interval was concluded to contain no hydrocarbons. | |

VIII. GEOLOGICAL DATA

A. Injection Zone:

In this well, the Delaware is from 4552'-7180'. The Bell Canyon is from 4552'-5591'. Porosity in the sand sections varies from 12% to 18%.

The Bell Canyon is found in the upper portion of the Delaware Mountain Group and consists of fine to medium grained sand and shale sequences with an occasional thin dolomite layer. The sand intervals are lenticular and vary significantly in water saturation. These Delaware sands experienced mild tectonic activity since the end of the Permian and faulting plays an insignificant role in the vertical and horizontal permeability separation within the Bell Canyon zone.

B. Fresh Water Sources:

Surface alluvium- From surface to 80' below surface.

Champion Technologies, Inc.

GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

# WATER ANALYSIS REPORT

Report for: Randall Smith
cc: Pat Culpepper
cc: Scott Malone;Danny Palmer
cc:
Company: Phillips
Address:
Service Engineer: Kenny Kearney

Date sampled: 9-20-93
Date reported: 9-27-93
Lease or well # : Lusk Deep A Batt
County: State:
Formation:
Depth:
Submitted by: Kenny Kearney

| CHEMICAL COMPOSITION : | mg/L | meq/L |
|---|---|---|
| Chloride (Cl) | 160000 | 4513 |
| Iron (Fe) (total) | 27.0 | |
| Total hardness | 100000 | |
| Calcium (Ca) | 29674 | 1481 |
| Magnesium (Mg) | 6318 | 507 |
| Bicarbonates (HCO3) | 85 | 1 |
| Carbonates (CO3) | n/a | |
| Sulfates (SO4) | 251 | 5 |
| Hydrogen sulfide (H2S) | 17 | |
| Carbon dioxide (CO2) | 368 | |
| Sodium (Na) | 58237 | 2532 |
| Total dissolved solids | 254566 | |
| Barium (Ba) | n/a | |
| Strontium (Sr) | n/a | |

| | |
|---|---|
| Specific Gravity | 1.181 |
| Density (#/gal.) | 9.842 |
| pH | 6.300 |
| IONIC STRENGTH | 5.52 |

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = +1.50
104 F = +1.73
122 F = +1.99
140 F = +2.28
158 F = +2.60

This water is 391 mg/l (-52.34%) under ITS CALCULATED CaSO4 saturation value at 82 F.
SATURATION= 747 mg/L PRESENT= 356 mg/L

REPORTED BY MOSES G. JIMENEZ
LAB TECHNICIAN

Attachment 4

Champion Technologies, Inc.

GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

# W A T E R  A N A L Y S I S  R E P O R T

Report for: Randall Smith
cc: Pat Culpepper
cc: Scott Malone;Danny Palmer
cc:
Company: Phillips
Address:
Service Engineer: Kenny Kearney

Date sampled: 9-20-93
Date reported: 9-27-93
Lease or well # : Lusk Deep A#5
County: State:
Formation:
Depth:
Submitted by: Kenny Kearney

| CHEMICAL COMPOSITION : | mg/L | meq/L |
|---|---|---|
| Chloride (Cl) | 43000 | 1213 |
| Iron (Fe) (total) | 145.0 | |
| Total hardness | 9100 | |
| Calcium (Ca) | 3248 | 162 |
| Magnesium (Mg) | 243 | 20 |
| Bicarbonates (HCO3) | 207 | 3 |
| Carbonates (CO3) | n/a | |
| Sulfates (SO4) | 322 | 7 |
| Hydrogen sulfide (H2S) | 34 | |
| Carbon dioxide (CO2) | 245 | |
| Sodium (Na) | 23954 | 1041 |
| Total dissolved solids | 70975 | |
| Barium (Ba) | n/a | |
| Strontium (Sr) | n/a | |

| | |
|---|---|
| Specific Gravity | 1.050 |
| Density (#/gal.) | 8.750 |
| pH | 6.430 |
| IONIC STRENGTH | 1.32 |

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = -0.43
104 F = -0.20
122 F = +0.06
140 F = +0.35
158 F = +0.67

This water is 2950 mg/l (-86.61%) under ITS CALCULATED CaSO4 saturation value at 82 F.
SATURATION= 3406 mg/L PRESENT= 456 mg/L

REPORTED BY MOSES G. JIMENEZ
LAB TECHNICIAN

Attachment 5

Champion Technologies, Inc.

GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

# WATER ANALYSIS REPORT

Report for: Randall Smith
cc: Pat Culpepper
cc: Scott Malone;Danny Palmer
cc:
Company: Phillips
Address:
Service Engineer: Kenny Kearney

Date sampled: 9-20-93
Date reported: 9-27-93
Lease or well # : Lusk Deep A#13
County: State:
Formation:
Depth:
Submitted by: Kenny Kearney

| CHEMICAL COMPOSITION : | mg/L | meq/L |
|---|---|---|
| Chloride (Cl) | 47000 | 1326 |
| Iron (Fe) (total) | 115.0 | |
| Total hardness | 10600 | |
| Calcium (Ca) | 3408 | 170 |
| Magnesium (Mg) | 510 | 41 |
| Bicarbonates (HCO3) | 244 | 4 |
| Carbonates (CO3) | n/a | |
| Sulfates (SO4) | 217 | 5 |
| Hydrogen sulfide (H2S) | 34 | |
| Carbon dioxide (CO2) | 149 | |
| Sodium (Na) | 25835 | 1123 |
| Total dissolved solids | 77216 | |
| Barium (Ba) | n/a | |
| Strontium (Sr) | n/a | |

| | |
|---|---|
| Specific Gravity | 1.055 |
| Density (#/gal.) | 8.792 |
| pH | 6.400 |
| IONIC STRENGTH | 1.44 |

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = -0.37
104 F = -0.14
122 F = +0.12
140 F = +0.41
158 F = +0.73

This water is 3119 mg/l (-91.01%) under ITS CALCULATED CaSO4 saturation value at 82 F.
SATURATION= 3427 mg/L PRESENT= 308 mg/L

REPORTED BY MOSES G. JIMENEZ
LAB TECHNICIAN

Application for Authorization to Inject

PHILLIPS PETROLEUM COMPANY
LUSK DEEP UNIT A WELL NO. 14

## IX. PROPOSED STIMULATION PROGRAM

A CIBP will be set at ± 6420', with 4 sx cement on top. The Bell Canyon will be perforated over the following intervals:

5025'-5040'
5074'-5080'
5110'-5130'
5162'-5175'
5374'-5394'

The injection zone will be acidized with 1850 gallons 7-1/2% NeFe HCl.

## X. LOGGING DATA

Well logs were filed after the well was drilled in 1988.

## XI. FRESH WATER ANALYSIS

No fresh water sources were available within 1 mile of the proposed disposal.

## XII. AFFIRMATIVE STATEMENT

All available geological and engineering data has been examined and no evidence of open faults or any other hydrological connection between the injection zone and underground source of drinking water was found.

ATTACHMENT NO. XIV
Notification

I hereby certify that a complete copy of this application was sent by certified mail to the below listed persons on October 28, 1993.

Signed: for Jay Maxles
Name: L. M. Sanders
Title: Supervisor, Regulatory Affairs
Date: 10/28/93

Surface Owner:

United States Department of the Interior
Bureau of Land Management
P. O. Box 1397
Roswell, NM 88201

Offset Operators:

Amoco Production Co.
200 Amoco Court
Farmington, NM 87401

Parker & Parsley Dev. Co.
600 W. Illinois Ave. Ste. 103
High Tower Bldg.
Midland, Texas 79701

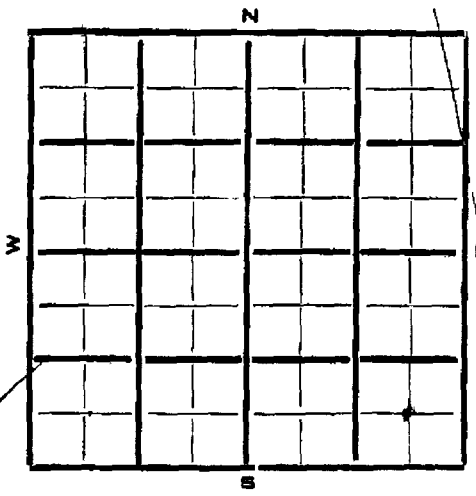
Culbertson & Irwin
P. O. Box 2918
Midland, Texas 79702

Culbertson & Irwin
P. O. Box 1071
Midland, Texas 79702

Meridian Oil Inc.
2919 Allen Parkway
Houston, Texas 77019

LOST LUCK

# SCOUT REPORT
## NEW MEXICO
### OIL CONSERVATION COMMISSION




Company Gulbertson & Irwin, et al

Farm Name Lynch Well No. 1

Land Classification Government

Sec. 20 Twp. 19 Range 32 County Lea

Feet from Line: N. 660 S. 660 E. W.

Elevation 3580 Method Mx

Contractor A. C. Williams Scout

Spudded 10-3-43 Completed 11-1-43 Initial Production

Bond Status

TA 785
TX 920
BX 2010
TRS
TY
TBL
TWL

AMOUNT CASING AND CEMENTING RECORD

| SIZE | FEET | INCHES | SAX CEMENT |
|---|---|---|---|
| 8 5/8 | 963 | | 50 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD

PACKER

ACID RECORD

Gals.

Top Pay TD

SHOOTING RECORD

No. of Quarts From To

No. of Quarts From To

S/ Surf w 28 ID 2 S/ S/

S/ S/ S/

| DATE | 9-29-43 Loc. | DATE |
|---|---|---|
| 10-20 | Ø 850 N | |
| 10-19 | Ø 1425 X | |
| 10-26 | Ø 2722 S | |
| 11-3 | TD 2820 L | |
| | P & A | |

Budget Bureau No. 42-R358.
Approval expires 11-30-46.

Form 9-331a
(March 1942)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. 059582
Unit J.V. Lynch

# 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 | X |
| NOTICE OF INTENTION TO PULL OR ALTER CASING | | SUPPLEMENTARY WELL HISTORY | |
| NOTICE OF INTENTION TO ABANDON WELL | | | |

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

December 12, 1946

Well No. 4 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 20

SW/4 Sec. 20 (¼ Sec. and Sec. No.) 19S (Twp.) 32E (Range) N.M.P. (Meridian)

East Lynk (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3500 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)

Well temporarily abandoned in accordance with Notice of November 9, 1943. Well has now been finally plugged and abandoned. Mudded hole to surface and set 10 sack cement plug on bridge in 6 5/8" casing at 850'. Also set 10 sack cement plug and mat at surface and erected 4" by 10' steel marker.

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

Company [illegible] & Irwin, Inc.

Address Box 1071

Midland, Texas

By [signature]

Title President

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