

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: RAY WESTALL
Address: P.O. BOX 4 Loco Hills, NM 88255
Contact party: RANDALL HARRIS Phone: (505) 677-2370
- 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: RANDALL HARRIS Title: GEOLOGIST
Signature: [Signature] Date: 9/6/58
- * 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.

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.

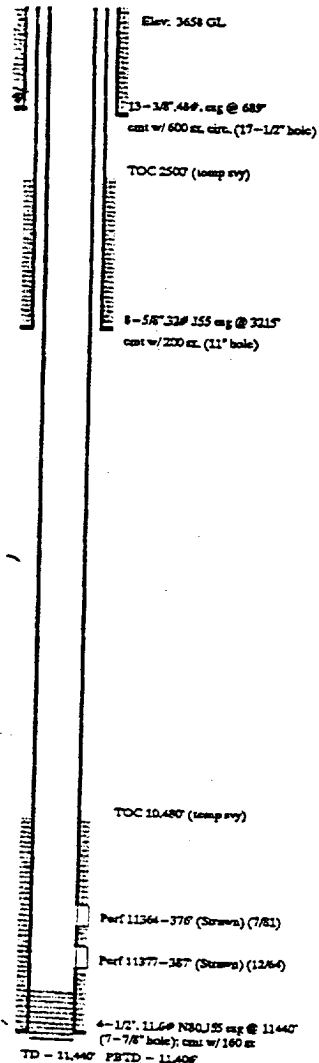
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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

RAY WESTALL OPERATOR FEDERAL SB NO. 1
1980 FNL & 660' FWL SECTION 5, TOWNSHIP 19 SOUTH, RANGE 32 EAST

SCHEMATIC



TABULAR DATA

Surface Casing

Size 13 3/8" Cemented with 600 sxs
TOC Circulated Hole size 17 1/2"
Set at 600

Intermediate

Size 8 5/8" Cemented with 200 sxs
TOC 2500' (temp svy) Hole size 11"
Set at 3215

Long String

Size 4 1/2" Cemented with 160 sxs
TOC 10,480 (temp svy)
Total Depth 11,440'

Injection Interval 11364-11387' Perforated

Tubing size 2 3/8" lined with plastic set in a BAKER LOC-SET packer at 11,300'

Other Data

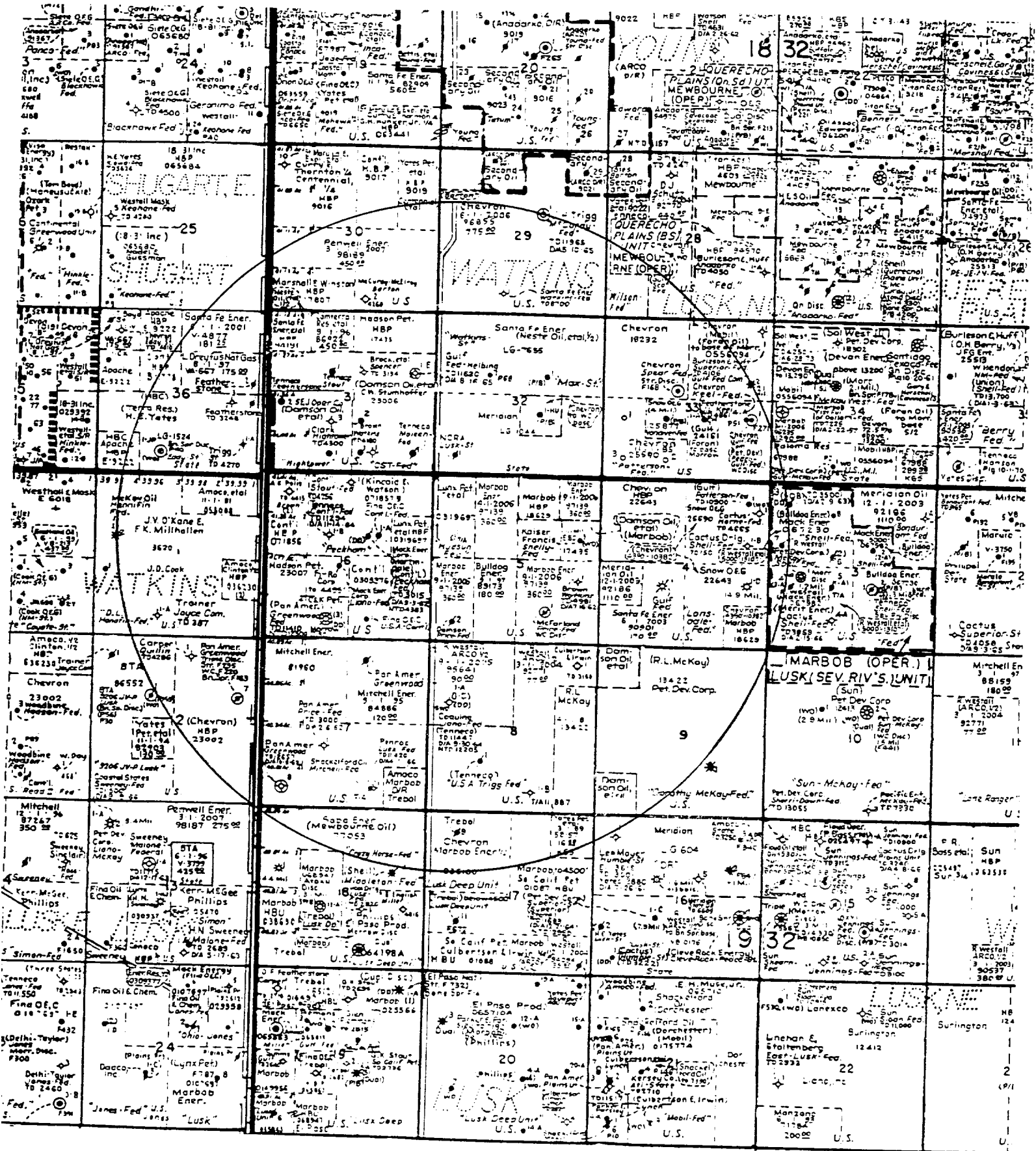
1. Name of the injection formation: STRAWN
2. Name of Pool: LUSK STRAWN
3. Original purpose of well: OIL & GAS PRODUCTION
4. Well is currently perforated 11364-11387.
5. Lusk Yates-Seven Rivers pools are overlying in this area at approximately 3000-4000'

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

This is a detailed map of the Lusk, Nebraska area, showing various oil and gas fields, wells, and production data. The map is divided into several sections, each representing a different field or area. Key features include:

- Fields and Wells:** Numerous fields are labeled, such as "Penwell Ener.", "Marshall E. Winston", "McCurdy-McIlroy", "Santa Fe Ener.", "Watkins", "Chevron", "Meridian", "Snow O.E.G.", "Kaiser Francis Shelly", "Bulldog Ener.", "Marbob Ener.", "Greenwood", "Mitchell Ener.", "Pan Amer.", "Shackelford Oil", "Amoco", "Trebol", "Saba Ener.", "Crazy Horse-Fed.", "Shell", "Middleton-Fed.", "Lusk Deep Unit", "So Calif Pet", "Vates Pet", "Lee Mayer", "Meridian", "L.G. 604", "DR", "F.B. 1", "F.B. 2", "F.B. 3", "F.B. 4", "F.B. 5", "F.B. 6", "F.B. 7", "F.B. 8", "F.B. 9", "F.B. 10", "F.B. 11", "F.B. 12", "F.B. 13", "F.B. 14", "F.B. 15", "F.B. 16", "F.B. 17", "F.B. 18", "F.B. 19", "F.B. 20", "F.B. 21", "F.B. 22", "F.B. 23", "F.B. 24", "F.B. 25", "F.B. 26", "F.B. 27", "F.B. 28", "F.B. 29", "F.B. 30", "F.B. 31", "F.B. 32", "F.B. 33", "F.B. 34", "F.B. 35", "F.B. 36", "F.B. 37", "F.B. 38", "F.B. 39", "F.B. 40", "F.B. 41", "F.B. 42", "F.B. 43", "F.B. 44", "F.B. 45", "F.B. 46", "F.B. 47", "F.B. 48", "F.B. 49", "F.B. 50", "F.B. 51", "F.B. 52", "F.B. 53", "F.B. 54", "F.B. 55", "F.B. 56", "F.B. 57", "F.B. 58", "F.B. 59", "F.B. 60", "F.B. 61", "F.B. 62", "F.B. 63", "F.B. 64", "F.B. 65", "F.B. 66", "F.B. 67", "F.B. 68", "F.B. 69", "F.B. 70", "F.B. 71", "F.B. 72", "F.B. 73", "F.B. 74", "F.B. 75", "F.B. 76", "F.B. 77", "F.B. 78", "F.B. 79", "F.B. 80", "F.B. 81", "F.B. 82", "F.B. 83", "F.B. 84", "F.B. 85", "F.B. 86", "F.B. 87", "F.B. 88", "F.B. 89", "F.B. 90", "F.B. 91", "F.B. 92", "F.B. 93", "F.B. 94", "F.B. 95", "F.B. 96", "F.B. 97", "F.B. 98", "F.B. 99", "F.B. 100".
- Production Data:** Many wells and fields have associated production data, including dates (e.g., "9-1-2006", "9-1-2005", "9-1-2004", "9-1-2003", "9-1-2002", "9-1-2001", "9-1-2000", "9-1-1999", "9-1-1998", "9-1-1997", "9-1-1996", "9-1-1995", "9-1-1994", "9-1-1993", "9-1-1992", "9-1-1991", "9-1-1990", "9-1-1989", "9-1-1988", "9-1-1987", "9-1-1986", "9-1-1985", "9-1-1984", "9-1-1983", "9-1-1982", "9-1-1981", "9-1-1980", "9-1-1979", "9-1-1978", "9-1-1977", "9-1-1976", "9-1-1975", "9-1-1974", "9-1-1973", "9-1-1972", "9-1-1971", "9-1-1970", "9-1-1969", "9-1-1968", "9-1-1967", "9-1-1966", "9-1-1965", "9-1-1964", "9-1-1963", "9-1-1962", "9-1-1961", "9-1-1960", "9-1-1959", "9-1-1958", "9-1-1957", "9-1-1956", "9-1-1955", "9-1-1954", "9-1-1953", "9-1-1952", "9-1-1951", "9-1-1950", "9-1-1949", "9-1-1948", "9-1-1947", "9-1-1946", "9-1-1945", "9-1-1944", "9-1-1943", "9-1-1942", "9-1-1941", "9-1-1940", "9-1-1939", "9-1-1938", "9-1-1937", "9-1-1936", "9-1-1935", "9-1-1934", "9-1-1933", "9-1-1932", "9-1-1931", "9-1-1930", "9-1-1929", "9-1-1928", "9-1-1927", "9-1-1926", "9-1-1925", "9-1-1924", "9-1-1923", "9-1-1922", "9-1-1921", "9-1-1920", "9-1-1919", "9-1-1918", "9-1-1917", "9-1-1916", "9-1-1915", "9-1-1914", "9-1-1913", "9-1-1912", "9-1-1911", "9-1-1910", "9-1-1909", "9-1-1908", "9-1-1907", "9-1-1906", "9-1-1905", "9-1-1904", "9-1-1903", "9-1-1902", "9-1-1901", "9-1-1900", "9-1-1899", "9-1-1898", "9-1-1897", "9-1-1896", "9-1-1895", "9-1-1894", "9-1-1893", "9-1-1892", "9-1-1891", "9-1-1890", "9-1-1889", "9-1-1888", "9-1-1887", "9-1-1886", "9-1-1885", "9-1-1884", "9-1-1883", "9-1-1882", "9-1-1881", "9-1-1880", "9-1-1879", "9-1-1878", "9-1-1877", "9-1-1876", "9-1-1875", "9-1-1874", "9-1-1873", "9-1-1872", "9-1-1871", "9-1-1870", "9-1-1869", "9-1-1868", "9-1-1867", "9-1-1866", "9-1-1865", "9-1-1864", "9-1-1863", "9-1-1862", "9-1-1861", "9-1-1860", "9-1-1859", "9-1-1858", "9-1-1857", "9-1-1856", "9-1-1855", "9-1-1854", "9-1-1853", "9-1-1852", "9-1-1851", "9-1-1850", "9-1-1849", "9-1-1848", "9-1-1847", "9-1-1846", "9-1-1845", "9-1-1844", "9-1-1843", "9-1-1842", "9-1-1841", "9-1-1840", "9-1-1839", "9-1-1838", "9-1-1837", "9-1-1836", "9-1-1835", "9-1-1834", "9-1-1833", "9-1-1832", "9-1-1831", "9-1-1830", "9-1-1829", "9-1-1828", "9-1-1827", "9-1-1826", "9-1-1825", "9-1-1824", "9-1-1823", "9-1-1822", "9-1-1821", "9-1-1820", "9-1-1819", "9-1-1818", "9-1-1817", "9-1-1816", "9-1-1815", "9-1-1814", "9-1-1813", "9-1-1812", "9-1-1811", "9-1-1810", "9-1-1809", "9-1-1808", "9-1-1807", "9-1-1806", "9-1-1805", "9-1-1804", "9-1-1803", "9-1-1802", "9-1-1801", "9-1-1800", "9-1-1799", "9-1-1798", "9-1-1797", "9-1-1796", "9-1-1795", "9-1-1794", "9-1-1793", "9-1-1792", "9-1-1791", "9-1-1790", "9-1-1789", "9-1-1788", "9-1-1787", "9-1-1786", "9-1-1785", "9-1-1784", "9-1-1783", "9-1-1782", "9-1-1781", "9-1-1780", "9-1-1779", "9-1-1778", "9-1-1777", "9-1-1776", "9-1-1775", "9-1-1774", "9-1-1773", "9-1-1772", "9-1-1771", "9-1-1770", "9-1-1769", "9-1-1768", "9-1-1767", "9-1-1766", "9-1-1765", "9-1-1764", "9-1-1763", "9-1-1762", "9-1-1761", "9-1-1760", "9-1-1759", "9-1-1758", "9-1-1757", "9-1-1756", "9-1-1755", "9-1-1754", "9-1-1753", "9-1-1752", "9-1-1751", "9-1-1750", "9-1-1749", "9-1-1748", "9-1-1747", "9-1-1746", "9-1-1745", "9-1-1744", "9-1-1743", "9-1-1742", "9-1-1741", "9-1-1740", "9-1-1739", "9-1-1738", "9-1-1737", "9-1-1736", "9-1-1735", "9-1-1734", "9-1-1733", "9-1-1732", "9-1-1731", "9-1-1730", "9-1-1729", "9-1-1728", "9-1-1727", "9-1-1726", "9-1-1725", "9-1-1724", "9-1-1723", "9-1-1722", "9-1-1721", "9-1-1720", "9-1-1719", "9-1-1718", "9-1-1717", "9-1-1716", "9-1-1715", "9-1-1714", "9-1-1713", "9-1-1712", "9-1-1711", "9-1-1710", "9-1-1709", "9-1-1708", "9-1-1707", "9-1-1706", "9-1-1705", "9-1-1704", "9-1-1703", "9-1-1702", "



ATTACHMENT VI

Data on all wells of public record within the area of review.
There are Three plugged wells that penetrated the proposed
injection zone within the area of review.

Well name	Location	Spud date	Sur. Casing	Int. Casing	Prod. Casing	Completion
Damson Oil Lusk State #1	SWSW Sec 32 T18S-R32E	04/22/65	13 3/8" @ 638 510 sxs Circ.	8 5/8" @ 3211 900 sxs Circ.	5 1/2" @ 11,600 270sxs T/9600 est	11396-11476 Lusk Strawn. Oil--P&A
Damson Oil Price 5 Fed #1	SWSW Sec 5 T19S-R32E	09/05/64	11 3/4" @ 850 650 sxs Circ.	8 5/8" @ 3650 300 sxs Circ	4 1/2" @ 11,347 5505 sxs T/	11295-11323 Lusk Strawn OIL--P&A
Fina Oil USA Contentinal #5	SWNE Sec 6 T22S-R28E	07/28/64	13 3/8" @ 650 320 sxs Circ.	8 5/8" @ 3599	5 1/2" @ 11,471 1385 sxs Circ	11143-11163 Lusk Strawn Oil--P&A

P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Sarasota, New Mexico 87504-2088

5. Lease Type of Lease STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
L61044

7. Lease Name or Unit Agreement Name
Lusk State

8. Well No.
1

9. Pool name or Wildcat
Lusk Strawn

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL ☒ GAS ☐ OTHER ☐

2. Name of Operator
Damson Oil Corporation

3. Address of Operator
3300 N "A", Building 8, Suite 100, Midland, Texas 79705

4. Well Location
Unit Letter M : 660 Feet From The South Line and 660 Feet From The West Line

Section 32 Township 18S Range 32E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3692' DF

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☒

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

WITNESSED BY: RAY SMITH & JACK GRIFFIN OF N.M.O.C.D.

1. RIH with 5 1/2" CIBP to 9610', stopped by obstruction.
2. POH with CIBP.
3. RIH open ended with 2 3/8" tubing to 11,315'.
4. Spotted 50 sks. cement w/lost circ. material at 11,315', WOC, plug not there
5. Spotted 45 sks. cement w/lost circ. material at 11,315', WOC, tagged cement at 11,065'.
6. Loaded hole with brine and saltwater gel.
7. Cut and pull 4150' 5 1/2" casing.
8. RIH with tubing and spot 25 sks. cement at 6947'.
9. POH to 4200' and spot 45 sks. cement from 4200'-4080', WOC, tagged plug at 2604'.
10. Drilled out plug at 2604'.
11. RIH and spotted 45 sks. plug from 4190'-4090', WOC, plug not there.
12. Spotted 3rd-45 sks. plug from 4190-4090' WOC, tag at 4152', pump 10 sacks.
13. Spotted 45 sks. plug at 32' WOC, plug not there.
14. Spot 25 sks., WOC, tagged plug at 3178'.
15. Spot 25 sks. at 1000', WOC tagged at 887'.
16. Spot plug at 748', WOC, tagged at 547'.
17. Spot 50 sks. surface plug. P & A COMPLETE 4/26/90.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Donald R. Crang TITLE District Engineer DATE May 10, 1990

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

APPROVED BY Lyle F. Turnacliffe TITLE OIL & GAS INSPECTOR DATE MAY 11 1990

CONDITIONS OF APPROVAL, IF ANY:

CERTIFICATE OF COMPLIANCE

OIL CONSERVATION DIVISION
DEC 13 1994

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

0-1914

1. TYPE OF WELL

2. TYPE OF COMPLETION

NEW ☒ WELL

EXISTING ☐ WELL

Lusk-State

3. Name of Operator

United States Smelting Refining and Mining Company

1

4. Address of Operator

Post Office Box 1877, Midland, Texas 79701

Undermined

5. Location of Well

UNIT LETTER M

LOCATED

560

South

600

6. West

LINE OF SEC. 32

16-S

32-E

Lead

7. Date of Drilling

4-22-65

5-21-65

6-5-65

3692 DF

3678

8. Total Depth

11,600'

11,552'

0-11,600

9. Producing Interval(s), of this completion

Strawn Reef (Pennsylvania). Top 11,390, bottom 11,557

no

10. Type Electric and Other Logs Run

Sonic Log - Gamma Ray: Continuous Dipmeter

no

11.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LBS. FT.	DEPTH	DIAMETER	AMOUNT USED	AMOUNT FILLED
13 3/8"	48	638	17 1/2"	510 sacks	None
8 5/8"	32	3211	11"	900 sacks	None
5 1/2"	17 & 20	11600	7 7/8"	270 sacks	None

12.

LINE RECORD

SIZE	TOP	DEPTH	DIAMETER	AMOUNT USED	AMOUNT FILLED
2 3/8"	11,366	11,350			

13. List all casing, tubing, or other material used in completion

1 hole each: 11,396, 11,399, 11,414, 11,424, 11,436. P/11,470-11,476 with 6 holes All 1 1/2" Dia. Holes.

11,396-11,476 Lined with 5000 gals reg- ular acid, low tension.

14.

1. Date of Completion

6-5-65

Flowing

Producing

2. Date of Test

6-5 to 6-6

24

16/64

336

754.2

none

2247:1

3. Flow Test Results

990

Pkr.

336

754.91

none

47 deg.

15. List all casing, tubing, or other material used in completion

Contract made to Phillips Petroleum Company

Wendell Chantry

16. List all casing, tubing, or other material used in completion

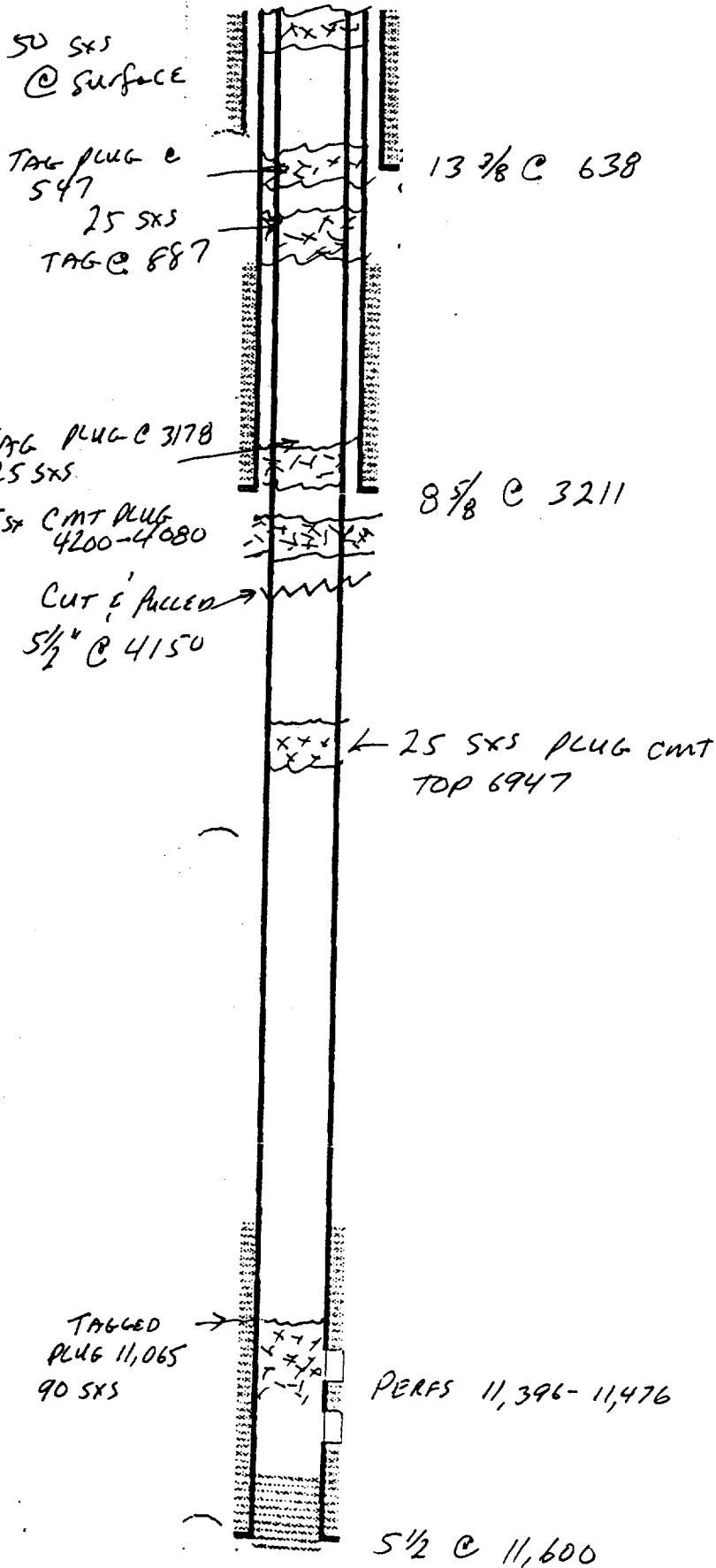
17. I hereby certify that the information furnished is true and correct

SIGNED

Manager of Production

June 17, 1965

DAMSON OIL
 LUSK STATE #1
 660 FSL 660 FWL
 SECTION 32
 T185-R32E



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instruct
reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

LC-071856-C (SW230)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Damson Oil Corporation

3. ADDRESS OF OPERATOR

3300 N. "A", Building 8, Suite 100, Midland, Texas 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

660' FSL and FWL SW/SW M-5

Unit m

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

API NO. 30-025-00889

3647' GL

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANE

(Other)

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. RIH with 4 1/2" CIBP to 11,215 ft.
2. Load hole and pump 12 sacks cement on top of CIBP.
3. Cut and pull 3,000 ft. 4 1/2" casing, load hole.
4. Spot 15 sack plug at 3650'.
5. Spot 37 sack plug at 3050', WOC, tagged at 2883'.
6. Cut and pulled 948' of 8 5/8" casing.
7. RIH with tubing to 987' and pump 85 sack plug, WOC, tagged at 984'.
8. Pumped 120 sack plug at 978'.
9. Pumped 90 sack plug from 65' to surface.
10. Weld on dry hole marker.

WITNESSED BY: BILL MCMANUS OF B.L.M.
P & A Complete 3/28/90

RECEIVED
MAY 18 11 05 AM '90
BUREAU OF LAND MANAGEMENT
CARRIZO AREA

18. I hereby certify that the foregoing is true and correct

SIGNED

Donald R. Crang

TITLE

District Engineer

DATE

May 14, 1990

(This space for Federal or State office use)

APPROVED BY: [Signature]

TITLE

PETROLEUM ENGINEER

DATE

6-18-90

CONDITIONS OF APPROVAL, IF ANY:

Liability under bond is retained until
surface restoration is completed.

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

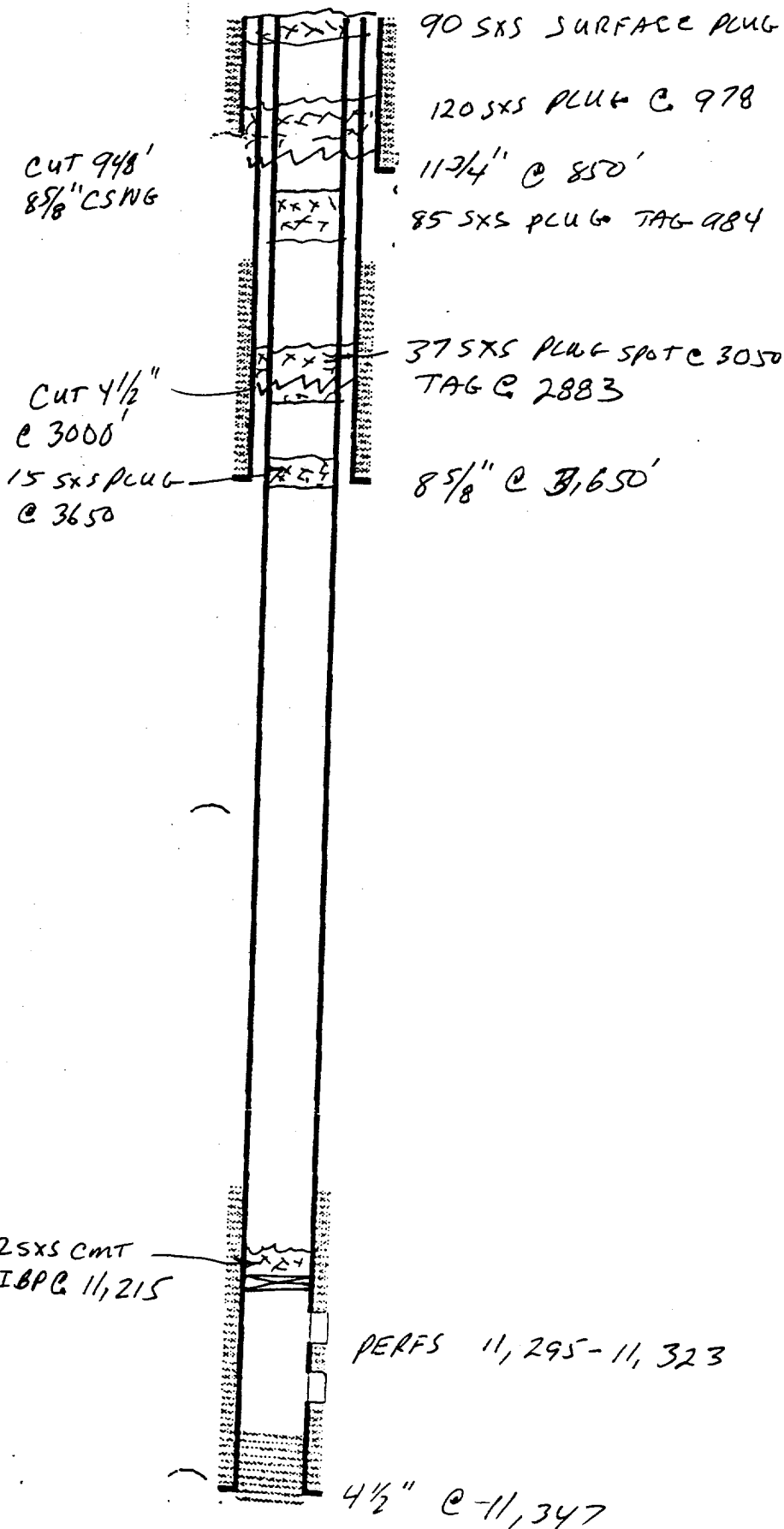
SUBMIT IN DUPLICATE

WELL COMPLETION OR RECOMPLETION REPORT AND

1. TYPE OF WELL:		OIL WELL ☒	GAS WELL ☐	Other ☐	
2. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	
3. NAME OF OPERATOR		McFarland Corporation			
4. ADDRESS OF OPERATOR		3612 West Wall, Midland, Texas			
5. LOCATION OF WELL (Report location clearly and in accordance with any State law)		At surface 660' PS & ML of Sec. 5 - 19 - 32			
At top prod. interval reported below					
At total depth					
14. PERMIT NO.		DATE ISSUED		Sec. 5, 19. COUNTY OR PARISH Lee	
15. DATE SPudded	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (OF. P.D., ET. CR. ETC.)	19. ELEV. CASING	
9-5-64	10-11-64	10-16-64	3647 C.L.	3657 D.E.	
20. TOTAL DEPTH, MD & TVD	21. PLUG BACK F.D., MD & TVD	22. IF MULTIPLE COMPLET. HOW MANY?	23. INTERVALS DRILLED BY	24. CABLE TOOLS	
11,437	PETD 11,355'		Yes		
25. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*					
Strawn 11,295' - 11,323'					
26. TYPE ELECTRIC AND OTHER LOGS RUN					
Schlumberger ES-Induction, GR-Indic, & MLL					
27. WAS WELL CURED					
No					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	42#	350	15"	650 sacks	None
8 5/8"	24 & 32#	3650	11"	300 sacks	None
4 1/2"	11.6# & 13.5#	11,347	7 7/8"	350 sacks	None
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
None					
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/8"	11,263	11,260			
31. PERFORATION RECORD (Interval, size and number)					
11,295' - 11,323' 2 CJFF 1 1/2" holes					
32. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)					
11,295'-11,323'					
AMOUNT AND KIND OF MATERIAL USED					
2500 gallons 15% HCl					
33. PRODUCTION					
DATE FIRST PRODUCTION					
10-16-64					
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					
Flowing					
WELL STATUS (Producing or shut-in)					
Producing					
DATE OF TEST	HOURS TESTED	MOH. SET	PROV. FOR TEST PERIOD	OIL—BBL.	GAS—SCF.
10-16-64	8	15/64		115	189.8
HOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HOUR RATE	OIL—BBL.	GAS—SCF.	WATER—BBL.
1900	-0- Packer		346	570.9	-0-
GRAVITY—API (GORA)					
43 degrees API					
TEST WITNESSED BY					
Richard L. Robinson					
Will be sold to Phillips Petroleum Co.					
I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.					
Richard L. Robinson					
TITLE Vice President					
DATE 10-19-64					

*(See Instructions and Spaces for Additional Data on Reverse Side)

LAMSON OIL
 F 1065 FEDERAL
 660 FSL & 660 FNL
 SECTION 5
 T 195 - R 32 E



(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR FINA OIL & CHEMICAL COMPANY		8. FARM OR LEASE NAME Continental "A" Com Federal	
3. ADDRESS OF OPERATOR Post Office Box 2990, Midland, Texas 79702		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit Letter G, 1980' FNL and 1650' FEL, Section 6, Township 19S, Range 32E, NMPM		10. FIELD AND POOL, OR WILDCAT Lusk Strawn	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 6, T 19S, R 32E, NMPM	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3675' (3676') RKB		12. COUNTY OR PARISH Lea	
		13. STATE New Mexico	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETION	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☒
REPAIR WELL	☐	CHANGE PLANS	☐
(Other)	☐		☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other)	☐		☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1. MIRU PU. NU BOP.
2. PU workstring & TIH w/3.75" casing swage, 6-3 1/2" drill collars, bumper sub and hydraulic jars.
3. Work swage through collapsed casing @ 6993'; TOH w/workstring.
4. Change out casing swage, using 1/4" larger swage each trip, up to a maximum of 4.75". TIH w/same bottom hole assembly each trip and work through collapsed section.
5. TIH w/5 1/2" cement retainer on workstring. Set retainer @ 11,050'. Squeeze perfs (11,114'-11,554') w/100 sx C1 H cement.
6. Sting out of retainer. Circulate 10 ppg mud. Spot 25 sx C1 H cement on top of retainer.
7. PUH to 10,200' & spot 25 sx C1 H cement (across Wolfcamp).
8. PUH to 8,500' & spot 25 sx C1 H cement (across Bone Springs).
9. PUH to 3,650' & spot 25 sx C1 H cement (across Grayburg).
10. PUH to 2,900' & spot 25 sx C1 H cement (across 7 Rivers/Queen).
11. PUH & spot 5 sx C1 H cement from 50' to surface.
12. LD workstring. Weld on plate.
13. RD and MDL.
14. Restore location.

* NOTIFY BLM ---
PERF. ---

RECEIVED
SEP 26 11 28 AM '89
OIL AND GAS

18. I hereby certify that the foregoing is true and correct

SIGNED Ronald E. Smelley
Ronald E. Smelley

TITLE Division Mgr-Drlg & Production DATE Sep 08 1989

(This space for Federal or State office use)

Orig. Signed by Adam Salameh

APPROVED BY _____ TITLE PETROLEUM ENGINEER

CONDITIONS OF APPROVAL, IF ANY:

DATE 10-11-89

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION DIVISION
JUN 2 1989

Date Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN PLAIN
(Other instructions on re-
verse side)

Approved.
Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
Nov 15 4 14 PM '90

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	2. NAME OF OPERATOR FINA OIL & CHEMICAL COMPANY	3. ADDRESS OF OPERATOR P. O. Box 2990, Midland, TX 79702-2990	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit Letter G, 1980' FNL & 1650' FEL	5. LEASE DESIGNATION AND SERIAL NO LC 071857 B	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Continental A Com Fed Cont A Fed	9. WELL NO. 1	10. FIELD AND POOL, OR WILDCAT Lusk Strawn	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-19-S, R-32-E	12. COUNTY OR PARISH Lea	13. STATE N.M.
14. PERMIT NO. API 30-025-20913	15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 3672.6, GL 3654.5											

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐
REPAIR WELL	☐	CHANGE PLANE	☐
(Other)	☐		☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☒
(Other)	☐		☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 1) Circulated hole with 10# salt gel from 6919' to surface.
- 2) Pumped 20 sx. C1 "H" plug from 6919'-6800'.
- 3) Pumped 100' plug between 5 1/2" & 8 5/8" casing @ 4089'-3989'.
- 4) Pumped 100' plug from 3300'-3200' outside and inside 5 1/2" casing.
- 5) Spot cement from 60' to surface, 10 sxs.
- 6) Remove wellhead and install marker, clean and rip location 6" deep.
- 7) Well P&A 1-17-90.

18. I hereby certify that the foregoing is true and correct

SIGNED Neva Herndon
(This space for Federal or State office use)

TITLE Senior Production Clerk

DATE 11-12-90

APPROVED BY Orig. Signed by Adar Salameh

TITLE PETROLEUM ENGINEER

DATE 11 27 90

CONDITIONS OF APPROVAL, IF ANY:

- Approved as to plug of the well bore.
- Liability under bond is retained until surface restoration is completed.

*See Instructions on Reverse Side

FINA OIL
CONTINENTAL A COM FED #1
1980 FNL & 1650 FEL
SECTION 6
T 195 - R32 E

10 SX
SURFACE

13 3/8 @ 650

3200-3300

100' PLUG
INSIDE & OUTSIDE
5 1/2" CSN

8 5/8 @ 3599

100' PLUG 4089-3989
INSIDE & OUTSIDE 5 1/2" CSN

PLUG 6919-6800

PERFS 11,143-11,163

5 1/2" @ 11471

ATTACHMENT VII

PROPOSED OPERATION

1. Plans are to inject 1000-1500 bbls of produced water per day per well.
2. The injection system is be a closed system.
3. The estimated injection pressure is 1500 psig. Maximum pressure will be 2000# psig.
4. Injection fluid will be produced water from oil and gas wells from the surrounding area.
5. A several samples of produced waters are attached.

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W052
ARTESIA LAB

GENERAL INFORMATION

OPERATOR:	RAY WESTALL OPERATING	DEPTH:	7376-7386
WELL:	MAVERICK FEDERAL #1	DATE SAMPLED:	04/04/96
FIELD:		DATE RECEIVED:	04/04/96
SUBMITTED BY:	RANDY HARRIS	COUNTY:	EDDY
WORKED BY:	CRAIG BAILLEY	STATE:	NM
PHONE NUMBER:		FORMATION:	

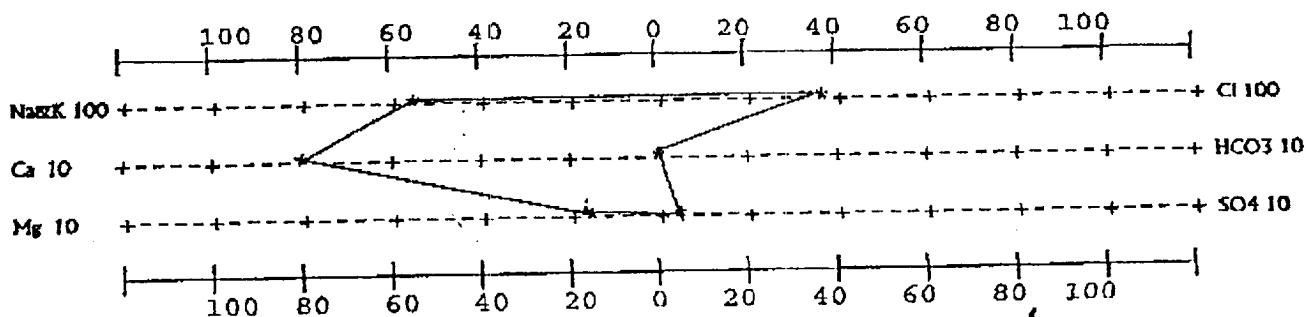
SAMPLE DESCRIPTION

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.165	@ 70°F	PH:	5.55
RESISTIVITY (CALCULATED):	0.025	ohms @ 75°F		
IRON (FE++) :	65 ppm	SULFATE:		1,030 ppm
CALCIUM:	16,153 ppm	TOTAL HARDNESS		48,956 ppm
MAGNESIUM:	2,086 ppm	BICARBONATE:		178 ppm
CHLORIDE:	130,443 ppm	SODIUM CHLORIDE (Calc)		214,578 ppm
SODIUM+POTASS:	84,610 ppm	TOT. DISSOLVED SOLIDS:		265,217 ppm
IODINE:		POTASSIUM CHLORIDE:		

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

Craig Bailey
 CRAIG BAILLEY

GENERAL INFORMATION

OPERATOR:	RAY WESTALL	DEPTH:	
WELL:	PALADIN FED. #1	DATE SAMPLED:	05/07/96
FIELD:		DATE RECEIVED:	05/07/96
SUBMITTED BY:	RANDY HARRIS	COUNTY:	EDDY
WORKED BY	:ERIC HENDERSON	STATE:	NM
PHONE NUMBER:		FORMATION:	DELEWARE

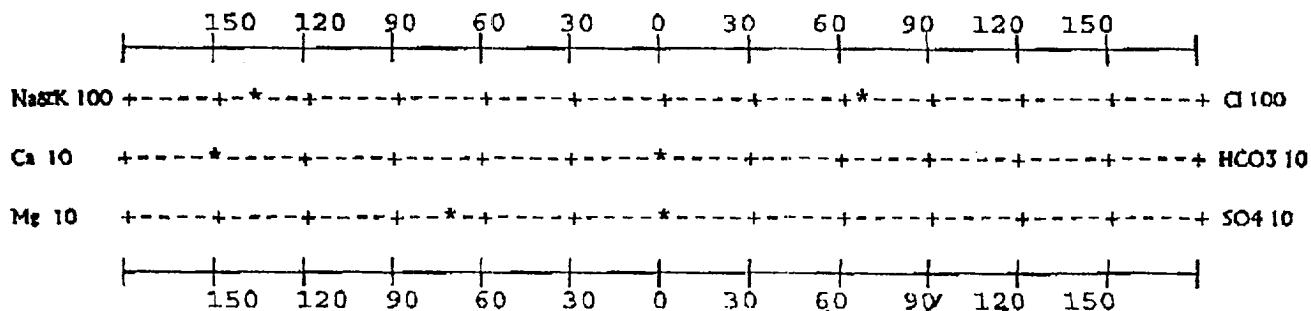
flow back sample

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:		1.165	@ 77°F	PH:	6.50
RESISTIVITY (CALCULATED):		0.015	ohms @ 75°F		
IRON (FE++) :	30	ppm	SULFATE:		343 ppm
CALCIUM:	29,901	ppm	TOTAL HARDNESS	111,655	ppm
MAGNESIUM:	8,969	ppm	BICARBONATE:		157 ppm
CHLORIDE:	240,289	ppm	SODIUM CHLORIDE (Calc)	395,276	ppm
SODIUM+POTASS:	141,462	ppm	TOT. DISSOLVED SOLIDS:	493,907	ppm
H2S: NO TRACE			POTASSIUM CHLORIDE:	450	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

ERIC HENDERSON

EXT. NO.

WATER ANALYSIS

OPERATOR RAY Westall

DATE SAMPLED 7/10/95

WELL Amerc?

DATE RECEIVED 7/10/95

FIELD

SUBMITTED BY

FORMATION

WORKED BY R. Williams

COUNTY

SAMPLE DESCRIPTION: —

STATE

DEPTH

SPECIFIC GRAVITY 1.025 AT 74 °F

TOTAL DISSOLVED SOLIDS		PPM
1	1	1

pH 8.7

RESISTIVITY 1.25 @ 299 PPM

IRON *100*
SERIAL *TRACE / 100* *100* *TRACE*

SULFATE 100 20 120 240 PPM

HYDROGEN SULFIDE VERY VERY STRONG

BICARBONATE 100 36 1960 PPM

HARDNESS: 10 2.9 2.500

CHLORIDE ¹⁰ ^{1.3} 22.0 PPM

CALCIUM 4800

SODIUM CHLORIDE	40.778	PPM
-----------------	--------	-----

MAGNESIUM 36.96 PPM

SODIUM 4.67 PPM

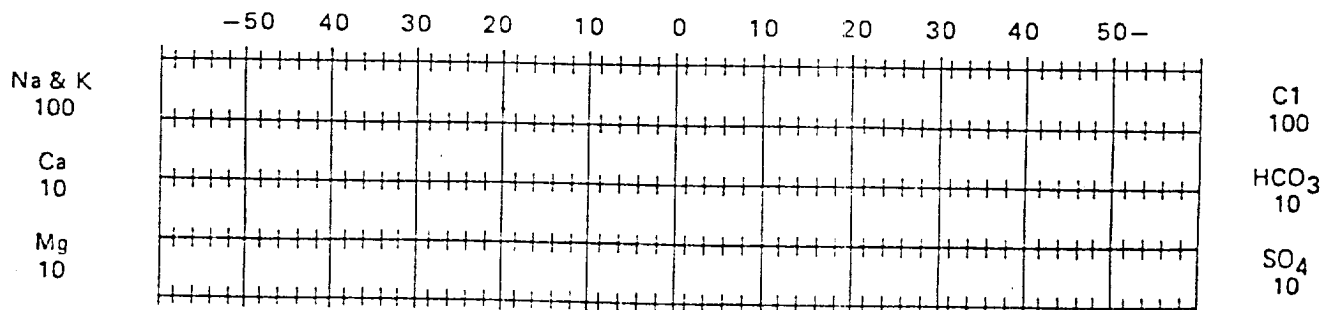
SODIUM & POTASSIUM 6076 PPM

POTASSIUM	PPM
0.0	
0.1	
0.2	
0.3	
0.4	
0.5	
0.6	
0.7	
0.8	
0.9	
1.0	
1.1	
1.2	
1.3	
1.4	
1.5	
1.6	
1.7	
1.8	
1.9	
2.0	
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9.7	
9.8	
9.9	
10.0	

PHOSPHATE —

REMARKS:
$$\begin{array}{r} 132 \\ 24 \\ \hline 56 \\ 56 \\ \hline 56 \end{array} \quad \begin{array}{r} 240 \\ 240 \\ \hline 560 \\ 560 \\ \hline 560 \end{array} \quad \begin{array}{r} 240 \\ 240 \\ \hline 560 \\ 560 \\ \hline 560 \end{array}$$

for Stiff type plot (in meq./l.)



ATTACHMENT VIII

The proposed injection zone is a carbonate in the Strawn Formation. This is a reef carbonate. It has average thickness of 250 feet thick. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250' There is no known source underlying the injection interval.

ATTACHMENT IX

No proposed stimulation.

ATTACHMENT XI

There is no fresh water wells within one mile.

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are Marbob Energy, Burlington, Fina, Kaiser Francis and Tenneco. Each of these operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the of United States of America, BLM.

PROOF OF PUBLICATION

Proof of publication will be from the Hobbs News-Suns and will be forwarded.