STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

Case 8916

PPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Drilling Company

Address: 207 South 4th Street, Artesia, N.M. 88210

Contact party: Tobin L. Rhodes Phone: (505) 746-9889

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 R-4608, R-4609.

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: Tobin L. Rhodes Title Engineer

Signature: Tobin L. Rhodes Date: 11-27-85

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.

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.

FORM C-108 SUPPLEMENT

Case 8916

I. Purpose:

To convert the producing well (AMU #35) to an injection well. This well is currently within the Artesia Metex Unit Waterflood. The conversion of this well will increase secondary recovery of oil within the unit.

II. The Operator is:

Yates Drilling Company
207 South 4th Street
Artesia, New Mexico 88210

III. Well data:

See attached well data and schematic sheet.

IV. This will be an expansion within the boundaries of the Artesia Metex Unit Waterflood (Division Order No. R-4609).

V. A land plat is attached which shows the acreage surrounding the subject well. A two mile radius circle has been drawn around the AMU #35 location to identify all lease ownership within two miles of the subject well. The smaller circle has a radius of ½ mile and identifies the area of review for the proposed injection well.

VI. There are seven wells other than the proposed injection well within the area of review, as indicated by the attached map. Data concerning the seven wells is included in the attached tabulations.

VII. Data on the proposed operation:

1. Initially the average and maximum daily rates of fluid injection will be 250 barrels and 500 barrels respectively. However, we request permission to run a step-rate test on the subject well within 90 days of first injection and adjust our injection rate so that injection pressure is below the fracture pressure exhibited by the test.

2. The subject well will be connected to the existing closed injection system of the unit.

3. The proposed initial average and maximum surface injection pressures will be 1235 psig and 1400 psig. The figures were obtained by comparison of the subject well to other injection wells within the unit. See VII part 1 concerning step-rate testing and long term maximum pressure.

4. The source of injection fluid will be produced water from the unit and fresh water purchased from the City of Carlsbad through its Double Eagle water line. Compatibility of this injection water with formation water has not caused a problem previously within the unit, therefore we request that water compatibility testing not be required.

5. Injection into the subject well will not be for disposal purposes.

VIII. Geologic data:

The injection interval will be from +1667 to +1586 subsea. This will include the seven Metex zones of the Grayburg formation. The Metex zones are characterized by intervals of fine grained sandstone and dolomite, and intermitten streaks of shaley dolomite with traces of anhydrite.

IX. No additional stimulation is planned at this time.

X. Well logs have been previously submitted to the Division.

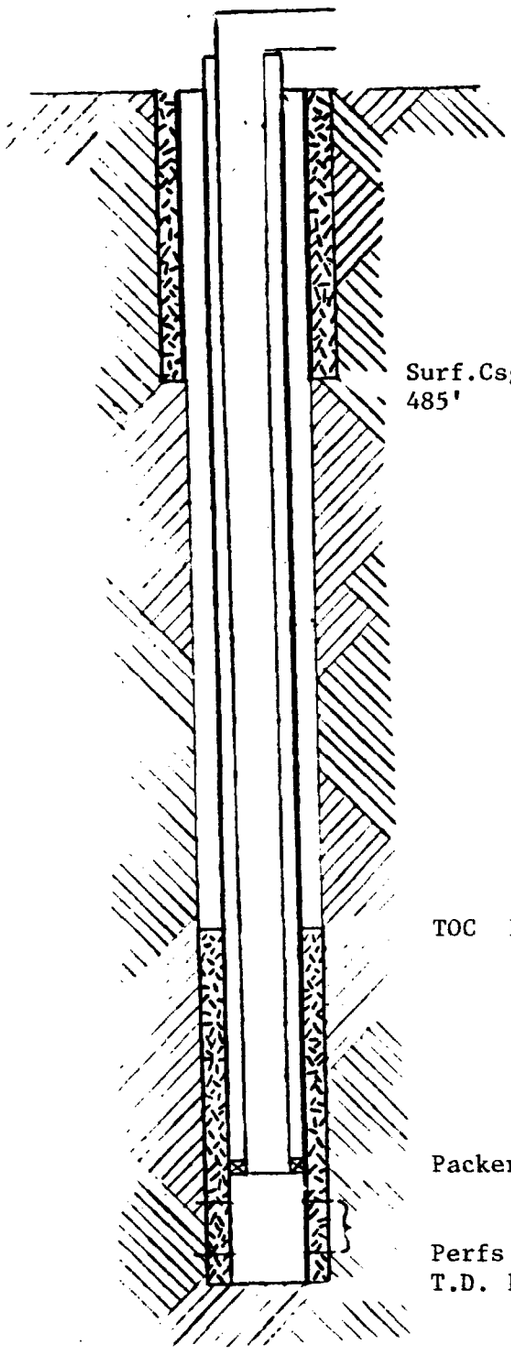
XI. Attached you will find a water analysis for the only fresh water well within one mile of the proposed injection well. Also you will find a copy of the letter from the State Engineer's Office stating the location and estimated depth of this well.

XII. This in not an application for a disposal well.

XIII. Attached you will find receipts indicating that each of the offset leasehold operators and surface owners have received a copy of this application.

Yates Drilling Company — Artesia Metex Unit
OPERATOR — LEASE

35 — 1650' FNL & 330' FEL — 26 — 18S — 27E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE



Tubular Data

Surface Casing

Size 7", 23# @ 485' Cemented with 410 sx.

TOC Surface feet determined by Circulation

Hole size Assume 10"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4½", 10.5# @ 1987' Cemented with 175 sx.

TOC 1400' feet determined by Temp. Surv.

Hole size Assume 6.25"

Total depth 1987'

Injection interval

1858' feet to 1939' feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with Plastic (material) set in a

Baker Plastic Coated AD-1 (brand and model) packer at 1800' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

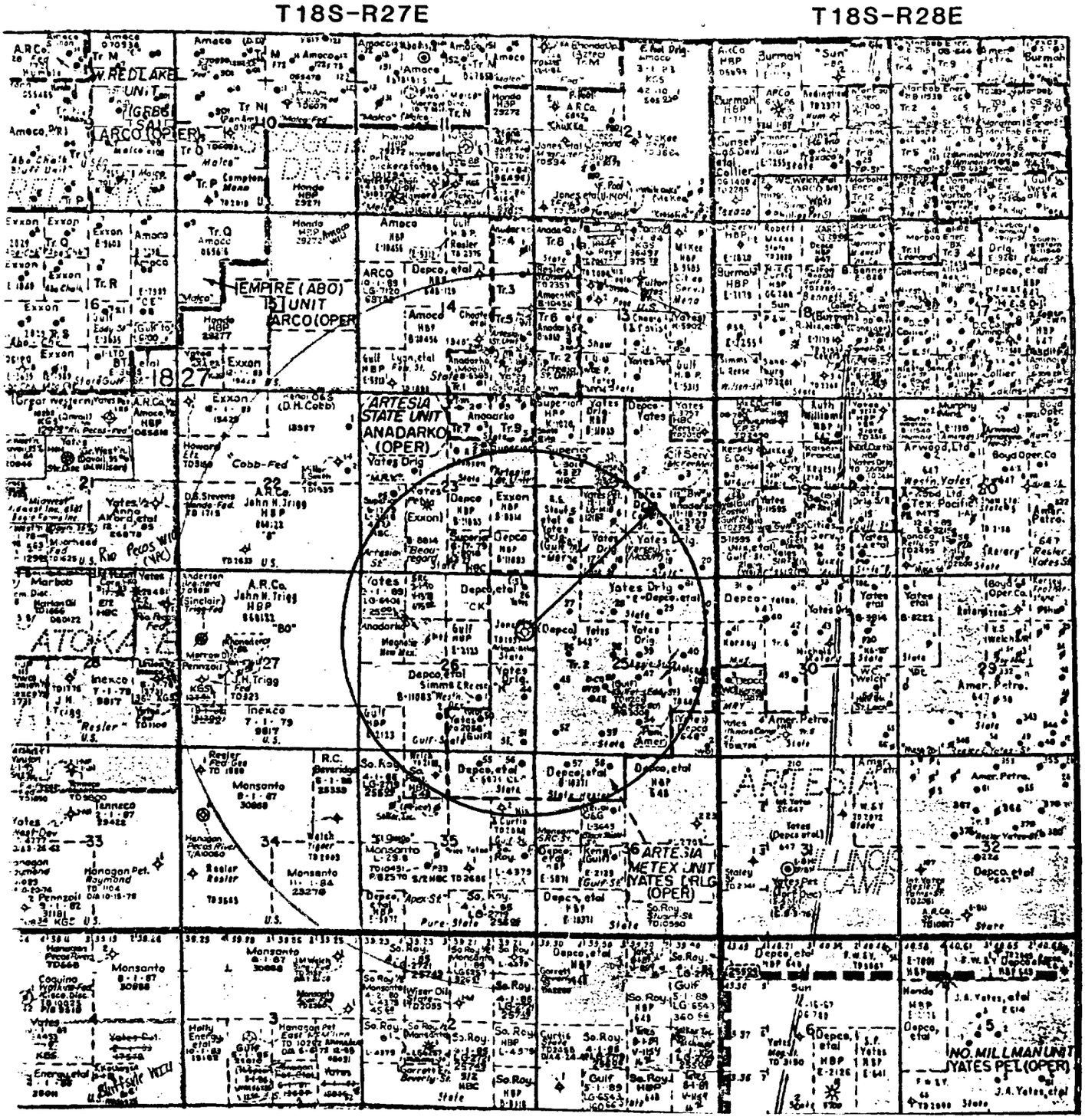
2. Name of Field or Pool (if applicable) Artesia Queen-Grayburg-SA

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Queen 1300' San Andres 2050'

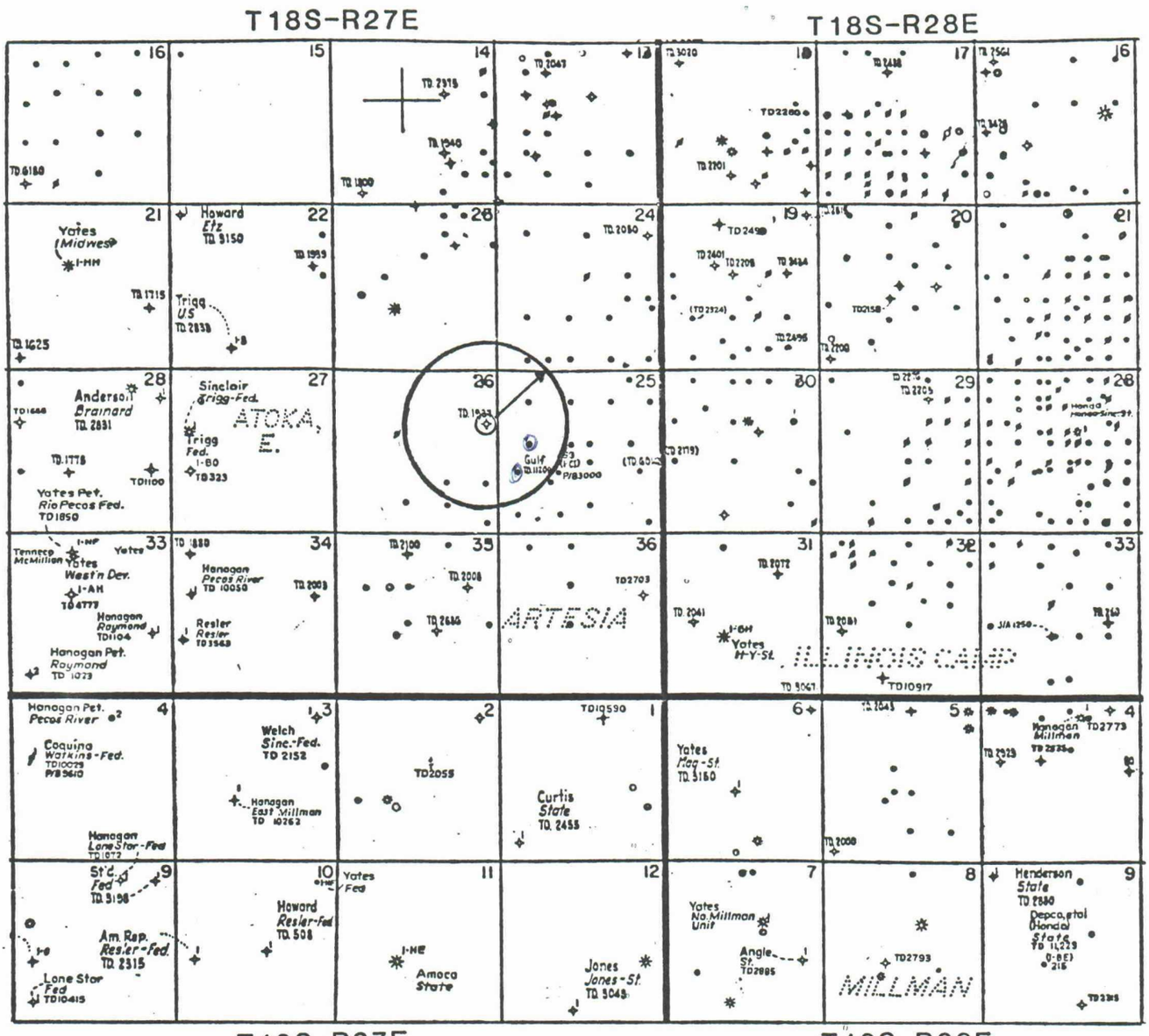


YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

Scale : 1" : 4000'



YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

SCALE : 1" : 5000'

1858' - 1939'

Wireline Services
Division
Geosource Inc.

GEOSOURCE

RADIOACTIVITY LOG

COMPANY YATES DRILLING COMPANY

WELL ARTESIA METEX # 35

FIELD ARTESIA QUEEN GRAYBURG SAN ANDRES

COUNTY EDDY STATE NEW MEXICO

Location: 1650' FNL & 330' FEL

Other Services:

Sec. 26 Twp. 18-S Rge. 27-E

Permanent Datum: , Elev. 3525'

Log Measured From GROUND LEVEL Ft Above Perm. Datum

Drilling Measured From

Elev.: K.B.

D.F.

G.L. 3525'

Date	[redacted]
Run No.	ONE
Type Log	GAMMA RAY - NEUTRON
Depth — Driller	1986'
Depth — Logger	1987'
Bottom Logged Interval	1986'
Top Logged Interval	400'
Type Fluid In Hole	MUD
Salinity, PPM Cl.	
Density	
Level	
Max. Rec. Temp., Deg F.	
Operating Rig Time	2 HRS.
Recorded By	H. MONTES
Witnessed By	MR. DADE

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 4
CASE NO. 8916

RUN No.	BORE-HOLE RECORD Bit	From	To	CASING RECORD Size	Wgt.	From	To
				7"		SURF.	482'

FOLD HERE

This Heading and Log Conforms to API RP 33

EQUIPMENT DATA

	Gamma Ray	Neutron
Run No.		
Log Type		
Tool Model No.		
Diameter		

LEASE NAME: Artesia Metex t | WELL NUMBER: 6

OPERATOR: Yates Drilling Company | LEASE NUMBER: NM-648

FORMATION: Grayburg | POOL: Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 990' FWL Section 24-18S-27E

ELEVATION: 3568' GL | TOTAL DEPTH: 2150'

SURFACE CASING: 8 5/8", 24# @ 486' | CEMENT: 50 sx. TOP:

INT. CASING: | CEMENT: sx. TOP:

PROD. CASING: 5½", 14# @ 2150' | CEMENT: 370 sx. TOP:

SPUD DATE: 6-1-51 | COMP. DATE: 2-11-52

PERFORATIONS: 2014-2105, 1940-88

STIMULATION: Shot open hole 1946-1998 with 200 qts. Nitro.
Frac 2014-2105 with 42000 gals. gelled water and 44000# sand

COMP. TYPE: Originally completed open hole as oil well. Later ran 5½" csg.

CURRENT STATUS: Artesia Metex Unit Injection Well

LEASE NAME: Artesia Metex Unit | WELL NUMBER: 26

OPERATOR: Yates Drilling Company | LEASE NUMBER:

FORMATION: Grayburg | POOL: Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3536' GL | TOTAL DEPTH: 1991'

SURFACE CASING: 8 5/8" @ 494' | CEMENT: 50 sx. TOP:

INT. CASING: | CEMENT: sx. TOP:

PROD. CASING: 4 1/2", 9.5# @ 1991' | CEMENT: 250 sx. TOP: 1500 est.

SPUD DATE: 3-9-50 | COMP. DATE: 4-18-50

PERFORATIONS: Shot open hole 1956-1880 with 350 qts. Nitro.

STIMULATION: Breakdown and frac 1856'-1951' with 2250 gals. 15% HCL. 20000 gals. gelled water and 12000# sand.

COMP. TYPE: Originally completed open hole. 4½" csg. ran 4-23-74

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Mete 'nit WELL NUMBER: 27

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 990' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3564' GL TOTAL DEPTH: 2040'

SURFACE CASING: 8 5/8" @ 496' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: CEMENT: sx. TOP:

SPUD DATE: 3-8-50 COMP. DATE: 3-31-50

PERFORATIONS: None

STIMULATION: Shot open hole 1940-2040 with 390 qts. Nitro.
Frac with 40000 gals. gelled water and 30000# sand

COMP. TYPE: Completed open hole, as oil well.

CURRENT STATUS: Pumping oil well.

LEASE NAME: Artesia Metex Unit WELL NUMBER: 35

OPERATOR: Yates Drilling Company LEASE NUMBER:

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3525' GL TOTAL DEPTH: 1987'

SURFACE CASING: 7", 23# @ 485' CEMENT: 410 sx. TOP: Surface

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 10.5# @ 1987' CEMENT: 175 sx. TOP: 1400 Temp. Sur.

SPUD DATE: 4-27-50 COMP. DATE: -

PERFORATIONS: 1858-1939

STIMULATION: Frac perfs with 40000 gals. gelled water and 73700# sand

COMP. TYPE: Originally drilled then P&A. Re-entered 4-83.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex it WELL NUMBER: 36

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 2310' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3551' GL TOTAL DEPTH: 2004'

SURFACE CASING: 8 5/8", 24# @ 449' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 11.6# @ 2004' CEMENT: 100 sx. TOP:

SPUD DATE: 4-11-50 COMP. DATE: 5-5-50

PERFORATIONS: 1986-98, 1918-32

STIMULATION: Shot open hole 1910-2001 with 360 qts. Nitro.

Frac 1986-98 with 20000 gals. gelled water and 40000# of sand

Frac 1918-32 with 20000 gals. gelled water and 40000# sand

COMP. TYPE: Originally completed open hole. fan 4½" csg. perfed & frac'd 11-57.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit WELL NUMBER: 44

OPERATOR: Yates Drilling Company LEASE NUMBER: B-11083

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 330' FEL Section 26-18S-27E

ELEVATION: TOTAL DEPTH: 2030'

SURFACE CASING: 8 5/8" @ 502' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: CEMENT: sx. TOP:

SPUD DATE: 7-31-51 COMP. DATE: 9-9-51

PERFORATIONS: None

STIMULATION: Shot open hole 1861-1971 with 430 qts. Nitro

Frac below open hole, packer @ 1845' with 40000 gals gelled water and 30000# sand.

COMP. TYPE: Originally completed open hole. Re-entered 5-67, left open hole.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Mete. nit WELL NUMBER: 45

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1980' FSL & 660' FWL Section 25-18S-27E

ELEVATION: 3552' GL TOTAL DEPTH: 2010

SURFACE CASING: 8 5/8", 28# @ 500' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 11.6# @ 2010' CEMENT: 175 sx. TOP: 1510 est.

SPUD DATE: 11-51 COMP. DATE: 10-51

PERFORATIONS: 1873-2005'

STIMULATION: Shot open hole 1925-2010 with 400 qts. Nitro.
Acidized perfs. with 4000 gals. 15% HCL
Frac 1873-2005 with 72500 gals oil and 14000# sand

COMP. TYPE: Originally completed open hole. Ran 4½" csg. 1-58.

CURRENT STATUS: Artesia Metex Injection Well

LEASE NAME: Western Development WELL NUMBER: 1

OPERATOR: H&S Oil Company LEASE NUMBER: B-11083

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 1650' FEL Section 26-18S-27E

ELEVATION: 3522' GL TOTAL DEPTH: 1945' PBTD 1931'

SURFACE CASING: 8 5/8", 24# @ 301' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 5½", 14# @ 1931' CEMENT: 50 sx. TOP:

SPUD DATE: 10-10-60 COMP. DATE: 10-29-60

PERFORATIONS: 1904-08', 1912-14', 1916-18'

STIMULATION: Original 20000 gals lease crude with 14000 # sand

COMP. TYPE: Oil well

CURRENT STATUS: Pumping oil well

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

S. E. REYNOLDS
STATE ENGINEER

April 29, 1985

DISTRICT II
909 E. 2nd STREET
P.O.BOX 1717
ROSWELL, NEW MEXICO 88201

T.L. Rhodes, Engineer
YATES DRILLING COMPANY
Yates Building
207 S. 4th Street
Artesia, New Mexico 88210

Dear Mr. Rhodes:

In reply to your letter of April 24, 1985, regarding water wells in the vicinity of section 26, Township 18 South, Range 27 East, this is to advise you that we have very little data in this area. There is a windmill in the SW¼NE¼SE¼NW¼SW¼ of Section 26 but I don't know how deep it is.

In my opinion the only fresh water in this area would be from the Artesia Group and would probably be in the upper 400 feet of the formation.

Yours truly,

James I. Wright
Field Engineer

JIW/tmg
cc Santa Fe

Phone (505) 746-6100

CHEMEX

P. O. Box 423
Artesia, N. M. 88210

WATER ANALYSIS REPORT

Company Yates Drilling Co. Date 11-21-85

Field Metex County Eddy State NM

Lease and Well No. Fresh H_2O well Offset #35 Prod. Formation

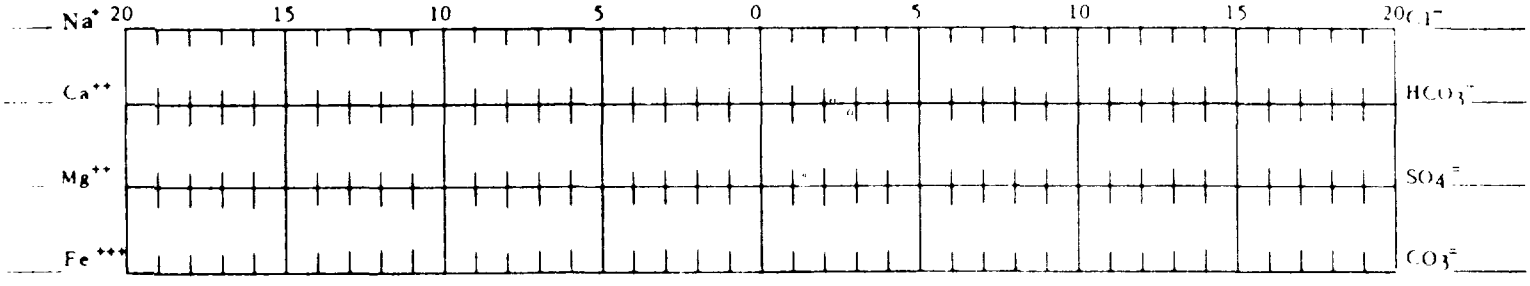
Source of Sample

Sample of Prod. Water ☐ Inj. Water ☐ Other XX

Date Collected Analyst Kent Jones

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me / SCALE UNIT)



Dissolved Solids Constituent	MG/L (PPM)	EPM
Calcium	nil	
Magnesium	nil	
Sodium	nil	
Iron	nil	
Chloride	nil	
Bicarbonate	48	
Carbonate	0	
Sulfate	nil	
Total Hardness	nil	
Total Dissolved Solids	48	
Hydrogen Sulfide	nil	
Oxygen	10+	

ph 6.85

Sp. Gravity

Remarks:

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Depco, Inc.
Suite 875, Empire Plaza
Midland, Texas 79701

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-002-226

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X [signature]

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

Put your address in th ETURN TO" space on the reverse side. Failure t his will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
N.M. Oil Conservation Division
P O Drawer DD
Artesia NM 88210

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-002-227

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X [signature]

6. Signature – Agent
X

7. Date of Delivery
12-5-85

8. Addressee's Address (ONLY if requested and fee paid)
Artesia Office

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Production Co.
Midland, Texas 79702

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-001-999

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X [signature]

7. Date of Delivery
12-5-85

8. Addressee's Address (ONLY if requested and fee paid)

MIDLAND, TX DEC 5 1985 USPS

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Southland Royalty Company
200 Executive Tower
801 CHERRY ST.
Fort Worth, Texas 76102

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-001-998

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X Randy Tucker

7. Date of Delivery
12-6-85

8. Addressee's Address (ONLY if requested and fee paid)
801 CHERRY ST SUITE 200

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:

Gulf Oil Corporation
PO Box 1150
Midland, Texas 79702

4. Type of Service: ☐ Registered ☑ Certified ☐ Express Mail ☐ Insured ☐ COD

Article Number: P-010-001-997

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X [signature]

7. Date of Delivery

MIDLAND, TX. DEC 5 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:

Weber as agent for Superior Oil Co.
PO Box 100822
Houston, Texas 77212

4. Type of Service: ☐ Registered ☑ Certified ☐ Express Mail ☐ Insured ☐ COD

Article Number: P 010-[illegible]

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X TONY [illegible]

7. Date of Delivery
DEC 0 9 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

LEGAL NOTICE

NOTICE OF PUBLICATION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application for authorization for an additional injection well has been submitted for approval to the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501.

Yates Drilling Company, 207 South 4th Street, Artesia, New Mexico, (505) 746-9889, Tobin L. Rhodes, contact party proposes the conversion of a producing well to an injection well to provide additional injection capability in the Artesia Metex Unit Waterflood. The proposed injection will be in the Artesia Metex Unit Waterflood well #35, 1650' FNL and 330' FSL, Section 26-T18S-27E, Eddy County, New Mexico.

Injection will be into the Grayburg formation between 1058' and 1939'. Maximum injection rate will be 500 barrels of water per day. Maximum injection pressure will be 1400 psi.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division at the above address within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., Dec. 31, 1985.

Legal No. 11378.

ENERGY AND MINERALS DEPARTMENT

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

Revised 7-1-81

PPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Drilling Company

Address: 207 South 4th Street, Artesia, N.M. 88210

Contact party: Tobin L. Rhodes Phone: (505) 746-9889

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 R-4608, R-4609.

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: Tobin L. Rhodes Title Engineer

Signature: Tobin L. Rhodes Date: 11-21-85

* 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.

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.

FORM C-108 SUPPLEMENT

I. Purpose:

To convert the producing well (AMU #35) to an injection well. This well is currently within the Artesia Metex Unit Waterflood. The conversion of this well will increase secondary recovery of oil within the unit.

II. The Operator is:

Yates Drilling Company
207 South 4th Street
Artesia, New Mexico 88210

III. Well data:

See attached well data and schematic sheet.

IV. This will be an expansion within the boundaries of the Artesia Metex Unit Waterflood (Division Order No. R-4609).

V. A land plat is attached which shows the acreage surrounding the subject well. A two mile radius circle has been drawn around the AMU #35 location to identify all lease ownership within two miles of the subject well. The smaller circle has a radius of ½ mile and identifies the area of review for the proposed injection well.

VI. There are seven wells other than the proposed injection well within the area of review, as indicated by the attached map. Data concerning the seven wells is included in the attached tabulations.

VII. Data on the proposed operation:

1. Initially the average and maximum daily rates of fluid injection will be 250 barrels and 500 barrels respectively. However, we request permission to run a step-rate test on the subject well within 90 days of first injection and adjust our injection rate so that injection pressure is below the fracture pressure exhibited by the test.

2. The subject well will be connected to the existing closed injection system of the unit.

3. The proposed initial average and maximum surface injection pressures will be 1235 psig and 1400 psig. The figures were obtained by comparison of the subject well to other injection wells within the unit. See VII part 1 concerning step-rate testing and long term maximum pressure.

4. The source of injection fluid will be produced water from the unit and fresh water purchased from the City of Carlsbad through its Double Eagle water line. Compatibility of this injection water with formation water has not caused a problem previously within the unit, therefore we request that water compatibility testing not be required.

5. Injection into the subject well will not be for disposal purposes.

VIII. Geologic data:

The injection interval will be from +1667 to +1586 subsea. This will include the seven Metex zones of the Grayburg formation. The Metex zones are characterized by intervals of fine grained sandstone and dolomite, and intermitten streaks of shaley dolomite with traces of anhydrite.

IX. No additional stimulation is planned at this time.

X. Well logs have been previously submitted to the Division.

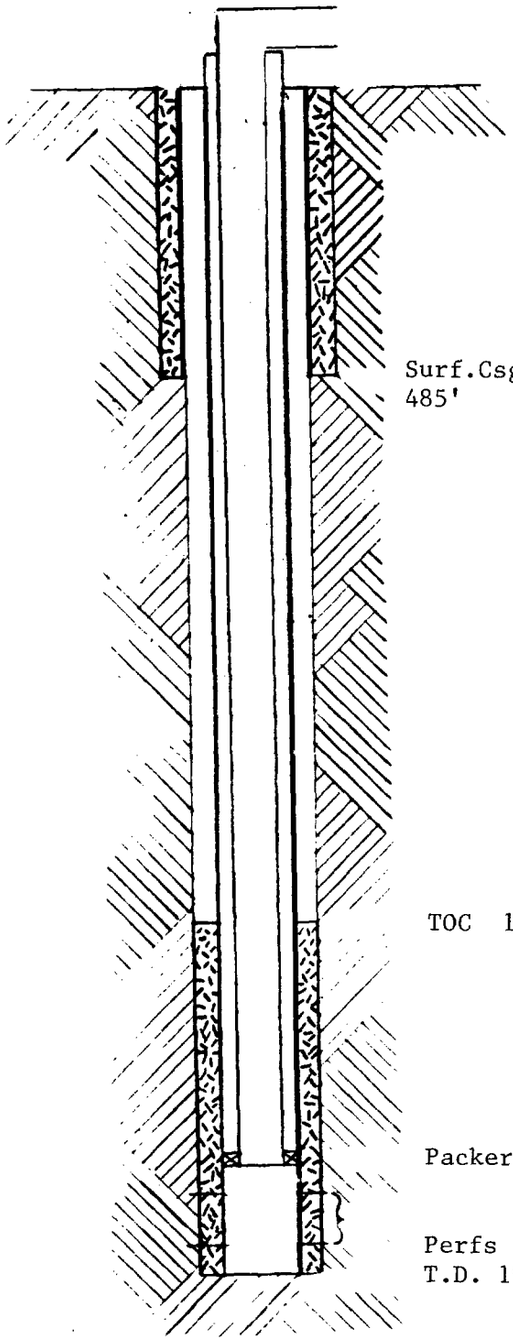
XI. Attached you will find a water analysis for the only fresh water well within one mile of the proposed injection well. Also you will find a copy of the letter from the State Engineer's Office stating the location and estimated depth of this well.

XII. This in not an application for a disposal well.

XIII. Attached you will find receipts indicating that each of the offset leasehold operators and surface owners have received a copy of this application.

Yates Drilling Company — Artesia Metex Unit
OPERATOR — LEASE

35 — 1650' FNL & 330' FEL — 26 — 18S — 27E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE



Tubular Data

Surface Casing

Size 7", 23# @ 485' Cemented with 410 sx.
TOC Surface feet determined by Circulation
Hole size Assume 10"

Intermediate Casing

Size _____" Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string

Size 4½", 10.5# @ 1987' Cemented with 175 sx.
TOC 1400' feet determined by Temp. Surv.
Hole size Assume 6.25"
Total depth 1987'

Injection interval

1858' feet to 1939' feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with Plastic (material) set in a Baker Plastic Coated AD-1 (brand and model) packer at 1800' feet

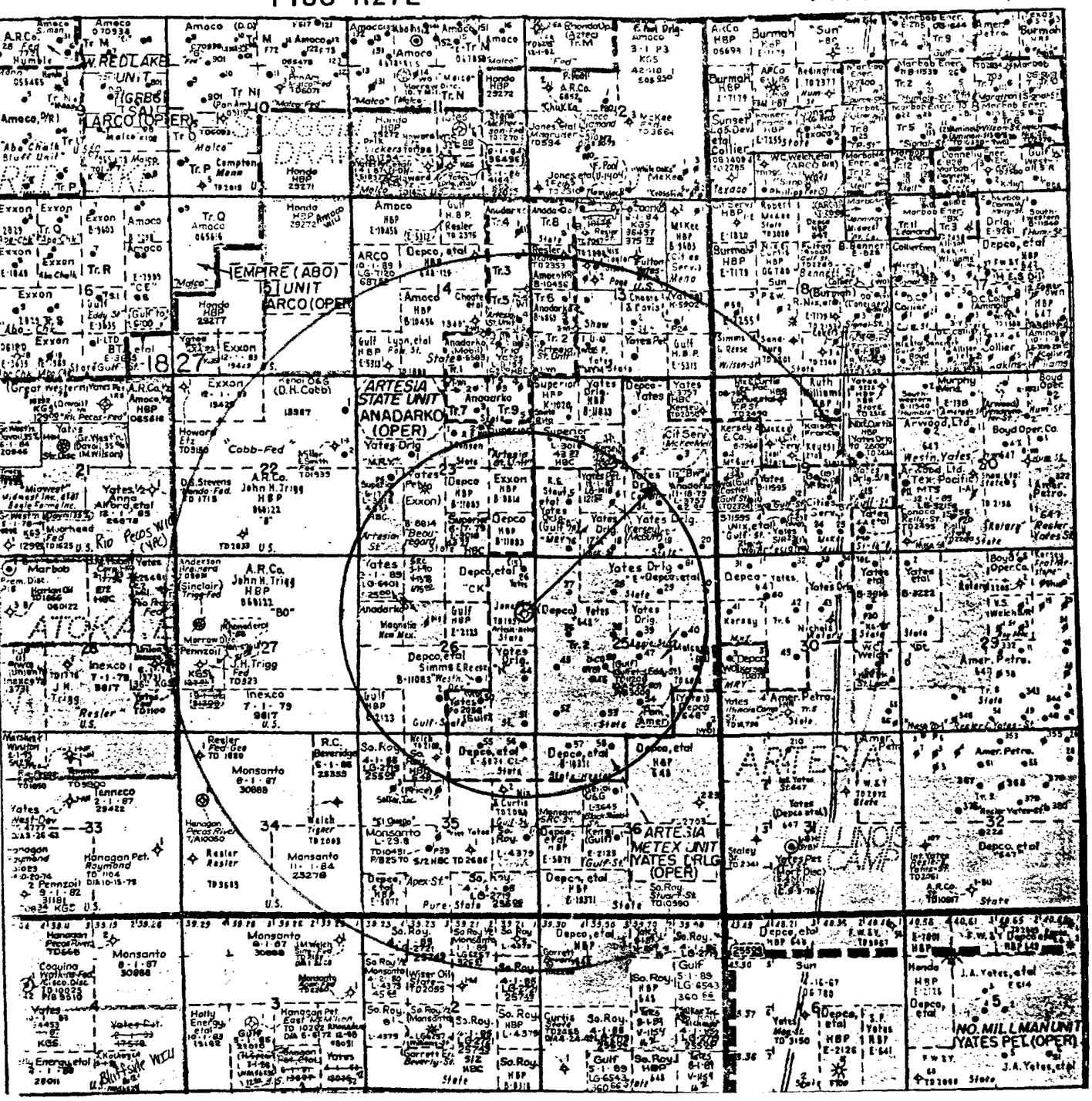
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg
2. Name of Field or Pool (if applicable) Artesia Queen-Grayburg-SA
3. Is this a new well drilled for injection? ☐ Yes ☒ No
   If no, for what purpose was the well originally drilled? Oil Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No other perforations
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Queen 1300' San Andres 2050'

T18S-R27E

T18S-R28E



T19S-R27E

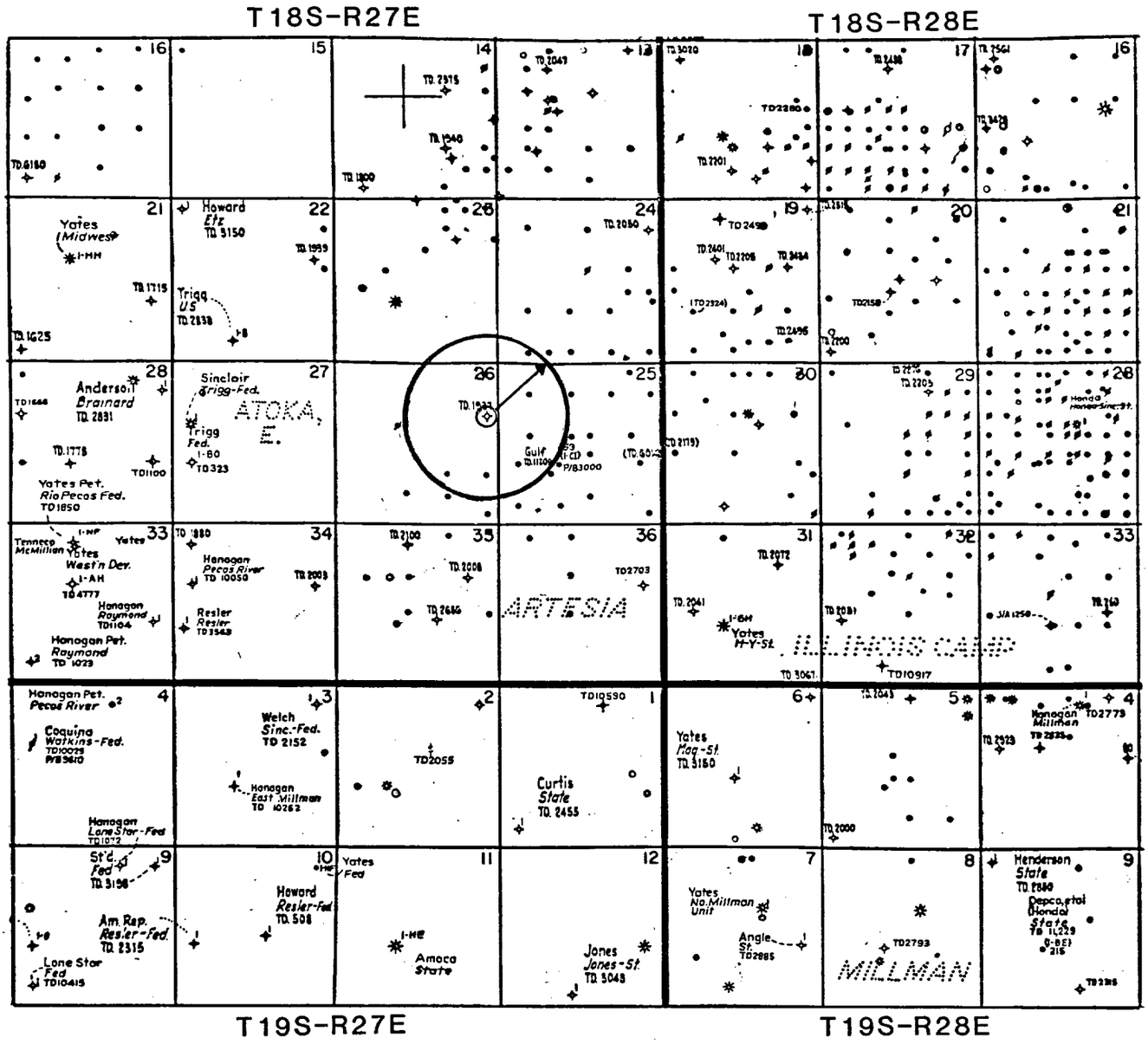
T19S-R28E

YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

Scale : 1'' : 4000'



YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

SCALE : 1" : 5000'

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 16

OPERATOR: Yates Drilling Company **LEASE NUMBER:** NM-648

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 990' FWL Section 24-18S-27E

ELEVATION: 3568' GL **TOTAL DEPTH:** 2150'

SURFACE CASING: 8 5/8", 24# @ 486' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 5½", 14# @ 2150' **CEMENT:** 370 **sx. TOP:**

SPUD DATE: 6-1-51 **COMP. DATE:** 2-11-52

PERFORATIONS: 2014-2105, 1940-88

STIMULATION: Shot open hole 1946-1998 with 200 qts. Nitro.
Frac 2014-2105 with 42000 gals. gelled water and 44000# sand

COMP. TYPE: Originally completed open hole as oil well. Later ran 5½" csg.

CURRENT STATUS: Artesia Metex Unit Injection Well

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 26

OPERATOR: Yates Drilling Company **LEASE NUMBER:**

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3536' GL **TOTAL DEPTH:** 1991'

SURFACE CASING: 8 5/8" @ 494' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 4 1/2", 9.5# @ 1991' **CEMENT:** 250 **sx. TOP:** 1500 est.

SPUD DATE: 3-9-50 **COMP. DATE:** 4-18-50

PERFORATIONS: Shot open hole 1956-1880 with 350 qts. Nitro.

STIMULATION: Breakdown and frac 1856'-1951' with 2250 gals. 15% HCL. 20000 gals. gelled water and 12000# sand.

COMP. TYPE: Originally completed open hole. 4½" csg. ran 4-23-74

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 27

OPERATOR: Yates Drilling Company **LEASE NUMBER:** NM-648

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 990' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3564' GL **TOTAL DEPTH:** 2040'

SURFACE CASING: 8 5/8" @ 496' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: **CEMENT:** **sx. TOP:**

SPUD DATE: 3-8-50 **COMP. DATE:** 3-31-50

PERFORATIONS: None

STIMULATION: Shot open hole 1940-2040 with 390 qts. Nitro.
Frac with 40000 gals. gelled water and 30000# sand

COMP. TYPE: Completed open hole, as oil well.

CURRENT STATUS: Pumping oil well.

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 35

OPERATOR: Yates Drilling Company **LEASE NUMBER:**

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 1650' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3525' GL **TOTAL DEPTH:** 1987'

SURFACE CASING: 7", 23# @ 485' **CEMENT:** 410 **sx. TOP:** Surface

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 4½", 10.5# @ 1987' **CEMENT:** 175 **sx. TOP:** 1400 Temp. Sur.

SPUD DATE: 4-27-50 **COMP. DATE:** -

PERFORATIONS: 1858-1939

STIMULATION: Frac perfs with 40000 gals. gelled water and 73700# sand

COMP. TYPE: Originally drilled then P&A. Re-entered 4-83.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 36

OPERATOR: Yates Drilling Company **LEASE NUMBER:** NM-648

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 2310' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3551' GL **TOTAL DEPTH:** 2004'

SURFACE CASING: 8 5/8", 24# @ 449' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 4½", 11.6# @ 2004' **CEMENT:** 100 **sx. TOP:**

SPUD DATE: 4-11-50 **COMP. DATE:** 5-5-50

PERFORATIONS: 1986-98, 1918-32

STIMULATION: Shot open hole 1910-2001 with 360 qts. Nitro.
Frac 1986-98 with 20000 gals. gelled water and 40000# of sand
Frac 1918-32 with 20000 gals. gelled water and 40000# sand

COMP. TYPE: Originally completed open hole, ran 4½" csg. perfed & frac'd 11-57.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 44

OPERATOR: Yates Drilling Company **LEASE NUMBER:** B-11083

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 330' FEL Section 26-18S-27E

ELEVATION: **TOTAL DEPTH:** 2030'

SURFACE CASING: 8 5/8" @ 502' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: **CEMENT:** **sx. TOP:**

SPUD DATE: 7-31-51 **COMP. DATE:** 9-9-51

PERFORATIONS: None

STIMULATION: Shot open hole 1861-1971 with 430 qts. Nitro
Frac below open hole, packer @ 1845' with 40000 gals gelled water
and 30000# sand.

COMP. TYPE: Originally completed open hole. Re-entered 5-67, left open hole.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit **WELL NUMBER:** 45

OPERATOR: Yates Drilling Company **LEASE NUMBER:** NM-648

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 1980' FSL & 660' FWL Section 25-18S-27E

ELEVATION: 3552' GL **TOTAL DEPTH:** 2010

SURFACE CASING: 8 5/8", 28# @ 500' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 4½", 11.6# @ 2010' **CEMENT:** 175 **sx. TOP:** 1510 est.

SPUD DATE: 11-51 **COMP. DATE:** 10-51

PERFORATIONS: 1873-2005'

STIMULATION: Shot open hole 1925-2010 with 400 qts. Nitro.
Acidized perfs. with 4000 gals. 15% HCL
Frac 1873-2005 with 72500 gals oil and 14000# sand

COMP. TYPE: Originally completed open hole. Ran 4½" csg. 1-58.

CURRENT STATUS: Artesia Metex Injection Well

LEASE NAME: Western Development **WELL NUMBER:** 1

OPERATOR: H&S Oil Company **LEASE NUMBER:** B-11083

FORMATION: Grayburg **POOL:** Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 1650' FEL Section 26-18S-27E

ELEVATION: 3522' GL **TOTAL DEPTH:** 1945' PBTD 1931'

SURFACE CASING: 8 5/8", 24# @ 301' **CEMENT:** 50 **sx. TOP:**

INT. CASING: **CEMENT:** **sx. TOP:**

PROD. CASING: 5½", 14# @ 1931' **CEMENT:** 50 **sx. TOP:**

SPUD DATE: 10-10-60 **COMP. DATE:** 10-29-60

PERFORATIONS: 1904-08', 1912-14', 1916-18'

STIMULATION: Original 20000 gals lease crude with 14000 # sand

COMP. TYPE: Oil well

CURRENT STATUS: Pumping oil well

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

S. E. REYNOLDS
STATE ENGINEER

April 29, 1985

DISTRICT II
909 E. 2nd STREET
P.O.BOX 1717
ROSWELL, NEW MEXICO 88201

Case 8916

T.L. Rhodes, Engineer
YATES DRILLING COMPANY
Yates Building
207 S. 4th Street
Artesia, New Mexico 88210

Dear Mr. Rhodes:

In reply to your letter of April 24, 1985, regarding water wells in the vicinity of section 26, Township 18 South, Range 27 East, this is to advise you that we have very little data in this area. There is a windmill in the SW¼NE¼SE¼NW¼SW¼ of Section 26 but I don't know how deep it is.

In my opinion the only fresh water in this area would be from the Artesia Group and would probably be in the upper 400 feet of the formation.

Yours truly,

James I. Wright
Field Engineer

JIW/tmg
cc Santa Fe

Phone (505) 746-6100

CHEMEX

P. O. Box 423
Artesia, N. M. 88210

WATER ANALYSIS REPORT

Company Yates Drilling Co. Date 11-21-85

Field Metex County Eddy State NM

Lease and Well No. Fresh H_2O well Offset #35 Prod. Formation

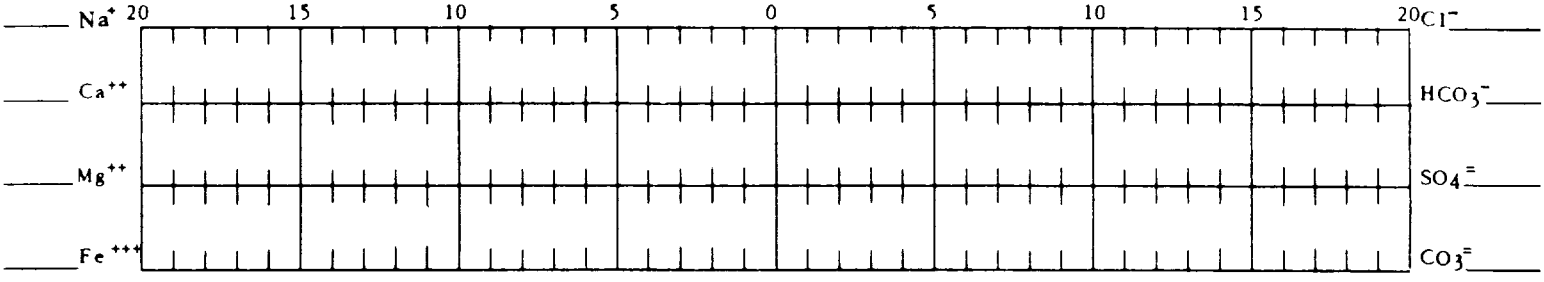
Source of Sample

Sample of Prod. Water ☐ Inj. Water ☐ Other XX

Date Collected Analyst Kent Jones

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



Dissolved Solids Constituent	MG/L (PPM)	EPM
Calcium	nil	
Magnesium	nil	
Sodium	nil	
Iron	nil	
Chloride	nil	
Bicarbonate	48	
Carbonate	0	
Sulfate	nil	
Total Hardness	nil	
Total Dissolved Solids	48	
Hydrogen Sulfide	nil	
Oxygen	10+	

ph 6.85

Sp. Gravity

Remarks:

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☒ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Depco, Inc.
Suite 875, Empire Plaza
Midland, Texas 79701

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-002-226

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X D Cantrell.

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
N.M. O & G Conservation Division
P O Drawer DD
Artesia NM 88210

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-002-227

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X A O Scroggin

6. Signature – Agent
X

7. Date of Delivery
12-5-85

8. Addressee's Address *(ONLY if requested and fee paid)*
Artesia Post

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Production Co.
Midland, Texas 79702

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-001-999

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
12-5-85

8. Addressee's Address *(ONLY if requested and fee paid)*

MIDLAND, TX DEC 5 1985 USPS

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Southland Royalty Company
200 Fortified Tower
801 CHERRY ST.
Fort Worth, Texas 76102

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number: P-010-001-998

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X Pandy Tucker

7. Date of Delivery
12-6-85

8. Addressee's Address *(ONLY if requested and fee paid)*
801 CHERRY ST SUITE 200

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Gulf Oil Corporation
PO Box 1150
Midland, Texas 79702

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number
P 610-001-997

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
DEC 5 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

MIDLAND, TEXAS

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Fisher as agent for Superior Oil Co.
PO Box 10022
Houston, Texas 77212

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number
P 610-[illegible]

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X TONY F[illegible]

7. Date of Delivery
DEC 09 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

LEGAL NOTICE

NOTICE OF PUBLICATION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application for authorization for an additional injection well has been submitted for approval to the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501.

Yates Drilling Company, 207 South 4th Street, Artesia, New Mexico, (505) 746-9889, Tobin L. Rhodes, contact party proposes the conversion of a producing well to an injection well to provide additional injection capability in the Artesia Metex Unit Waterflood. The proposed injection will be in the Artesia Metex Unit Waterflood well #35, 1650' FNL and 330' FSL, Section 26-T18S-27E, Eddy County, New Mexico.

Injection will be into the Grayburg formation between 1058' and 1939'. Maximum injection rate will be 500 barrels of water per day. Maximum injection pressure will be 1400 psi.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division at the above address within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., Dec. 31, 1985.

Legal No. 11378.

STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

RECEIVED BY
JAN 15 1986
O. C. D.
ARTESIA, OFFICE

PPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Drilling Company

Address: 207 South 4th Street, Artesia, N.M. 88210

Contact party: Tobin L. Rhodes Phone: (505) 746-9889

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 R-4608, R-4609.

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.).

III. 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.

III. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

(IV. Certification

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

Name: Tobin L. Rhodes Title Engineer

Signature: Tobin L. Rhodes Date: 11-21-85

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.

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.

FORM C-108 SUPPLEMENT

I. Purpose:

To convert the producing well (AMU #35) to an injection well. This well is currently within the Artesia Metex Unit Waterflood. The conversion of this well will increase secondary recovery of oil within the unit.

II. The Operator is:

Yates Drilling Company
207 South 4th Street
Artesia, New Mexico 88210

III. Well data:

See attached well data and schematic sheet.

IV. This will be an expansion within the boundaries of the Artesia Metex Unit Waterflood (Division Order No. R-4609).

V. A land plat is attached which shows the acreage surrounding the subject well. A two mile radius circle has been drawn around the AMU #35 location to identify all lease ownership within two miles of the subject well. The smaller circle has a radius of ½ mile and identifies the area of review for the proposed injection well.

VI. There are seven wells other than the proposed injection well within the area of review, as indicated by the attached map. Data concerning the seven wells is included in the attached tabulations.

VII. Data on the proposed operation:

1. Initially the average and maximum daily rates of fluid injection will be 250 barrels and 500 barrels respectively. However, we request permission to run a step-rate test on the subject well within 90 days of first injection and adjust our injection rate so that injection pressure is below the fracture pressure exhibited by the test.

2. The subject well will be connected to the existing closed injection system of the unit.

3. The proposed initial average and maximum surface injection pressures will be 1235 psig and 1400 psig. The figures were obtained by comparison of the subject well to other injection wells within the unit. See VII part 1 concerning step-rate testing and long term maximum pressure.

4. The source of injection fluid will be produced water from the unit and fresh water purchased from the City of Carlsbad through its Double Eagle water line. Compatibility of this injection water with formation water has not caused a problem previously within the unit, therefore we request that water compatibility testing not be required.

5. Injection into the subject well will not be for disposal purposes.

VIII. Geologic data:

The injection interval will be from +1667 to +1586 subsea. This will include the seven Metex zones of the Grayburg formation. The Metex zones are characterized by intervals of fine grained sandstone and dolomite, and intermitten streaks of shaley dolomite with traces of anhydrite.

IX. No additional stimulation is planned at this time.

X. Well logs have been previously submitted to the Division.

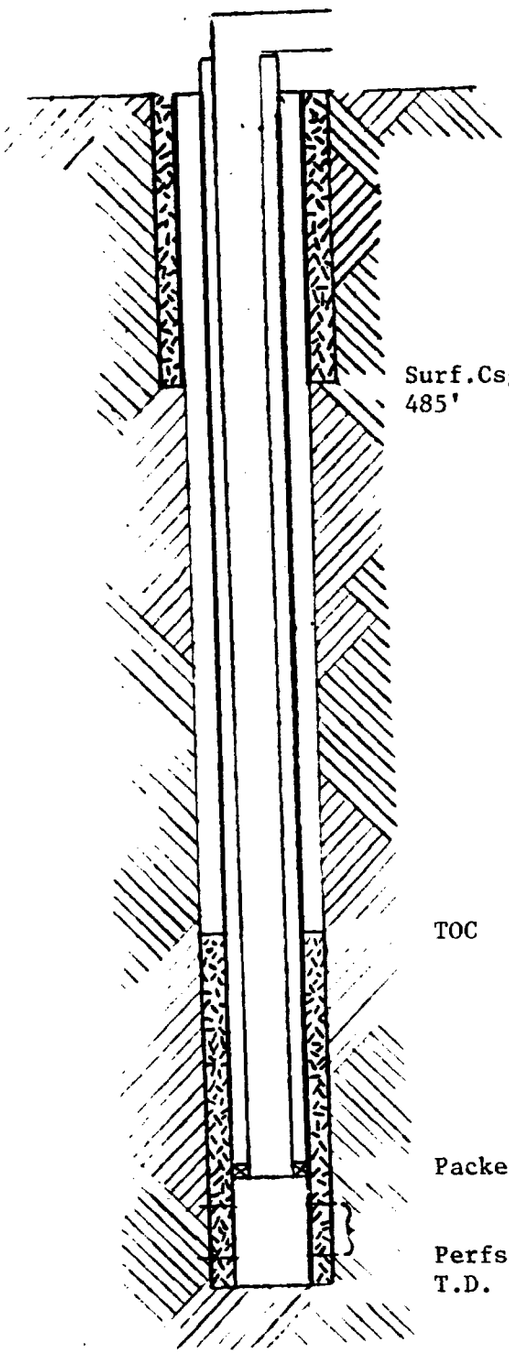
XI. Attached you will find a water analysis for the only fresh water well within one mile of the proposed injection well. Also you will find a copy of the letter from the State Engineer's Office stating the location and estimated depth of this well.

XII. This in not an application for a disposal well.

XIII. Attached you will find receipts indicating that each of the offset leasehold operators and surface owners have received a copy of this application.

Yates Drilling Company — Artesia Metex Unit
OPERATOR — LEASE

35 — 1650' FNL & 330' FEL — 26 — 18S — 27E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE



Tubular Data

Surface Casing

Size 7", 23# @ 485' Cemented with 410 sx.

TOC Surface feet determined by Circulation

Hole size Assume 10"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4½", 10.5# @ 1987' Cemented with 175 sx.

TOC 1400' feet determined by Temp. Surv.

Hole size Assume 6.25"

Total depth 1987'

Injection interval

1858' feet to 1939' feet
(perforated or open-hole, indicate which)

Tubing size 2 3/8" lined with Plastic (material) set in a Baker Plastic Coated AD-1 (brand and model) packer at 1800' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

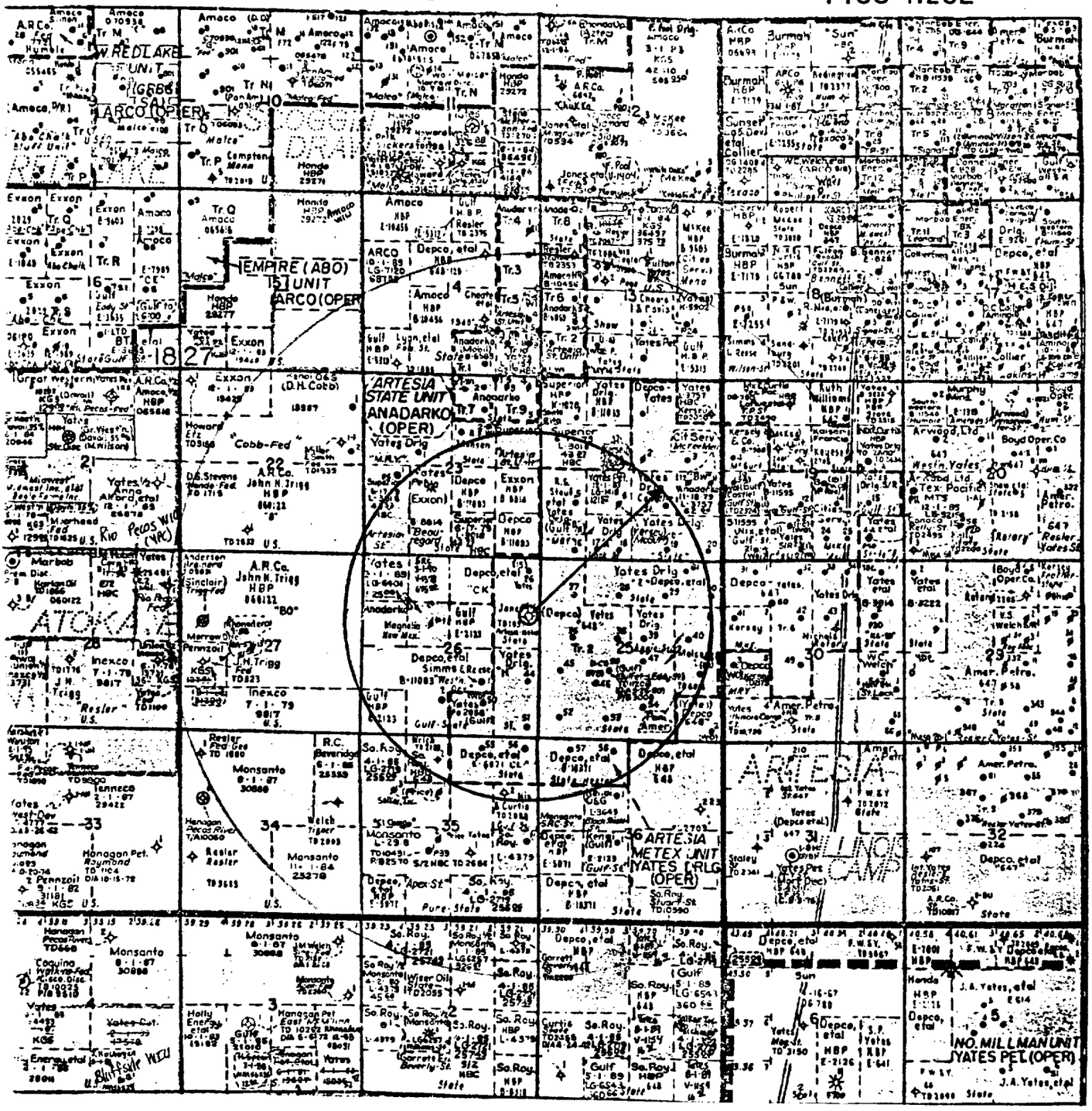
2. Name of Field or Pool (if applicable) Artesia Queen-Grayburg-SA

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Queen 1300' San Andres 2050'

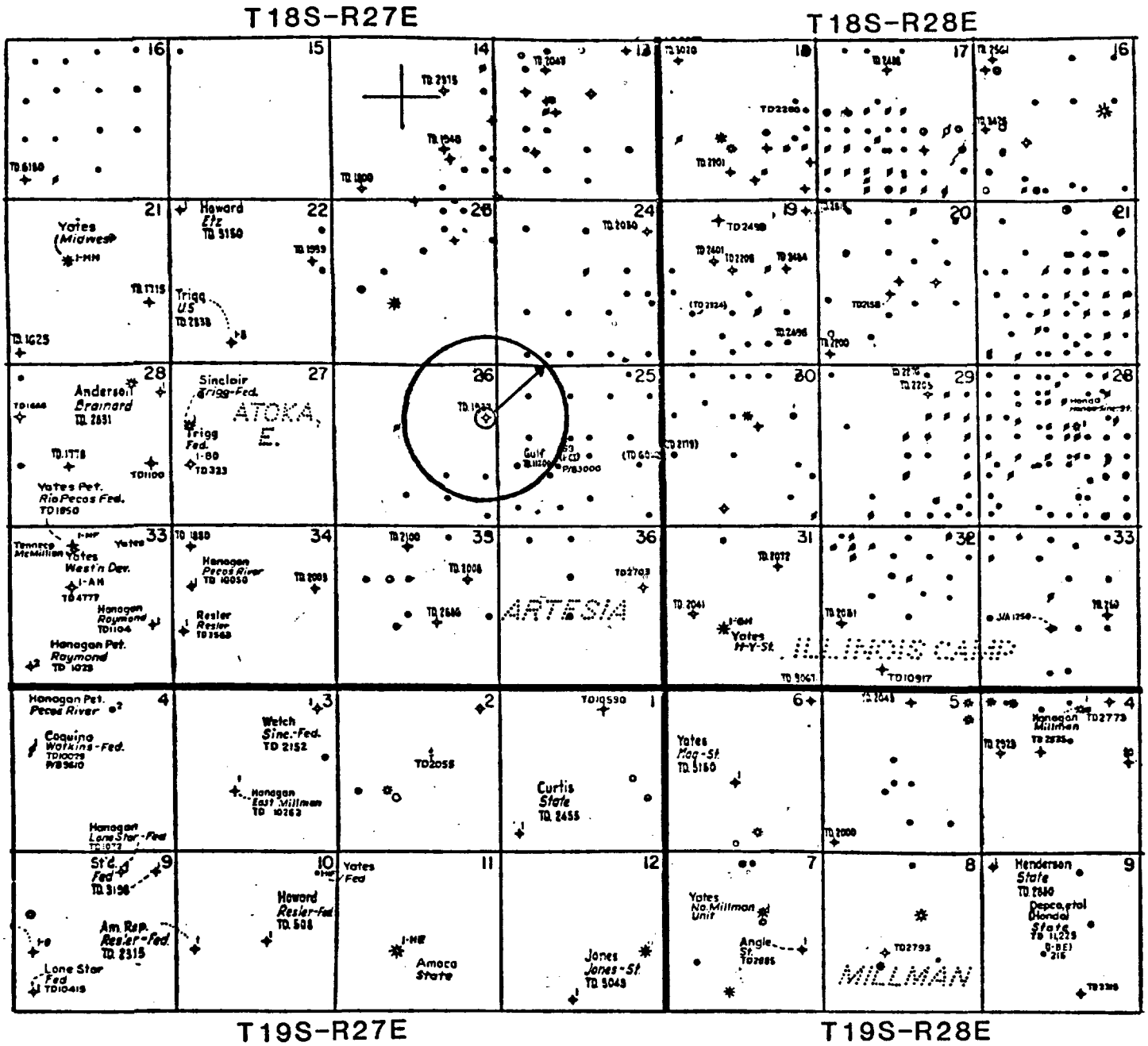


YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

Scale : 1" : 4000'



YATES DRILLING CO.

Artesia Metex Unit

Proposal to Convert AMU #35 to Injection

SCALE : 1" : 5000'

LEASE NAME: Artesia Mete: ıit WELL NUMBER: 16

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 990' FWL Section 24-18S-27E

ELEVATION: 3568' GL TOTAL DEPTH: 2150'

SURFACE CASING: 8 5/8", 24# @ 486' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 5½", 14# @ 2150' CEMENT: 370 sx. TOP:

SPUD DATE: 6-1-51 COMP. DATE: 2-11-52

PERFORATIONS: 2014-2105, 1940-88

STIMULATION: Shot open hole 1946-1998 with 200 qts. Nitro.
Frac 2014-2105 with 42000 gals. gelled water and 44000# sand

COMP. TYPE: Originally completed open hole as oil well. Later ran 5½" csg.

CURRENT STATUS: Artesia Metex Unit Injection Well

LEASE NAME: Artesia Metex Unit WELL NUMBER: 26

OPERATOR: Yates Drilling Company LEASE NUMBER:

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 330' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3536' GL TOTAL DEPTH: 1991'

SURFACE CASING: 8 5/8" @ 494' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4 1/2", 9.5# @ 1991' CEMENT: 250 sx. TOP: 1500 est.

SPUD DATE: 3-9-50 COMP. DATE: 4-18-50

PERFORATIONS: Shot open hole 1956-1880 with 350 qts. Nitro.

STIMULATION: Breakdown and frac 1856'-1951' with 2250 gals. 15% HCL. 20000 gals. gelled water and 12000# sand.

COMP. TYPE: Originally completed open hole. 4½" csg. ran 4-23-74

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Mete nit WELL NUMBER: 27

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 990' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3564' GL TOTAL DEPTH: 2040'

SURFACE CASING: 8 5/8" @ 496' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: CEMENT: sx. TOP:

SPUD DATE: 3-8-50 COMP. DATE: 3-31-50

PERFORATIONS: None

STIMULATION: Shot open hole 1940-2040 with 390 qts. Nitro.
Frac with 40000 gals. gelled water and 30000# sand

COMP. TYPE: Completed open hole, as oil well.

CURRENT STATUS: Pumping oil well.

LEASE NAME: Artesia Metex Unit WELL NUMBER: 35

OPERATOR: Yates Drilling Company LEASE NUMBER:

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FNL & 330' FEL Section 26-18S-27E

ELEVATION: 3525' GL TOTAL DEPTH: 1987'

SURFACE CASING: 7", 23# @ 485' CEMENT: 410 sx. TOP: Surface

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 10.5# @ 1987' CEMENT: 175 sx. TOP: 1400 Temp. Sur.

SPUD DATE: 4-27-50 COMP. DATE: -

PERFORATIONS: 1858-1939

STIMULATION: Frac perfs with 40000 gals. gelled water and 73700# sand

COMP. TYPE: Originally drilled then P&A. Re-entered 4-83.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Mete nit WELL NUMBER: 36

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 2310' FNL & 990' FWL Section 25-18S-27E

ELEVATION: 3551' GL TOTAL DEPTH: 2004'

SURFACE CASING: 8 5/8", 24# @ 449' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 11.6# @ 2004' CEMENT: 100 sx. TOP:

SPUD DATE: 4-11-50 COMP. DATE: 5-5-50

PERFORATIONS: 1986-98, 1918-32

STIMULATION: Shot open hole 1910-2001 with 360 qts. Nitro.

Frac 1986-98 with 20000 gals. gelled water and 40000# of sand

Frac 1918-32 with 20000 gals. gelled water and 40000# sand

COMP. TYPE: Originally completed open hole, fan 4½" csg. perfed & frac'd 11-57.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Metex Unit WELL NUMBER: 44

OPERATOR: Yates Drilling Company LEASE NUMBER: B-11083

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 330' FEL Section 26-18S-27E

ELEVATION: TOTAL DEPTH: 2030'

SURFACE CASING: 8 5/8" @ 502' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: CEMENT: sx. TOP:

SPUD DATE: 7-31-51 COMP. DATE: 9-9-51

PERFORATIONS: None

STIMULATION: Shot open hole 1861-1971 with 430 qts. Nitro

Frac below open hole, packer @ 1845' with 40000 gals gelled water and 30000# sand.

COMP. TYPE: Originally completed open hole. Re-entered 5-67, left open hole.

CURRENT STATUS: Pumping oil well

LEASE NAME: Artesia Mete nit WELL NUMBER: 45

OPERATOR: Yates Drilling Company LEASE NUMBER: NM-648

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1980' FSL & 660' FWL Section 25-18S-27E

ELEVATION: 3552' GL TOTAL DEPTH: 2010

SURFACE CASING: 8 5/8", 28# @ 500' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 4½", 11.6# @ 2010' CEMENT: 175 sx. TOP: 1510 est.

SPUD DATE: 11-51 COMP. DATE: 10-51

PERFORATIONS: 1873-2005'

STIMULATION: Shot open hole 1925-2010 with 400 qts. Nitro.
Acidized perfs. with 4000 gals. 15% HCL
Frac 1873-2005 with 72500 gals oil and 14000# sand

COMP. TYPE: Originally completed open hole. Ran 4½" csg. 1-58.

CURRENT STATUS: Artesia Metex Injection Well

LEASE NAME: Western Development WELL NUMBER: 1

OPERATOR: H&S Oil Company LEASE NUMBER: B-11083

FORMATION: Grayburg POOL: Artesia Queen-Grayburg-SA

LOCATION: 1650' FSL & 1650' FEL Section 26-18S-27E

ELEVATION: 3522' GL TOTAL DEPTH: 1945' PBTD 1931'

SURFACE CASING: 8 5/8", 24# @ 301' CEMENT: 50 sx. TOP:

INT. CASING: CEMENT: sx. TOP:

PROD. CASING: 5½", 14# @ 1931' CEMENT: 50 sx. TOP:

SPUD DATE: 10-10-60 COMP. DATE: 10-29-60

PERFORATIONS: 1904-08', 1912-14', 1916-18'

STIMULATION: Original 20000 gals lease crude with 14000 # sand

COMP. TYPE: Oil well

CURRENT STATUS: Pumping oil well

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

S. E. REYNOLDS
STATE ENGINEER

April 29, 1985

DISTRICT II
909 E. 2nd STREET
P.O.BOX 1717
ROSWELL, NEW MEXICO 88201

T.L. Rhodes, Engineer
YATES DRILLING COMPANY
Yates Building
207 S. 4th Street
Artesia, New Mexico 88210

Dear Mr. Rhodes:

In reply to your letter of April 24, 1985, regarding water wells in the vicinity of section 26, Township 18 South, Range 27 East, this is to advise you that we have very little data in this area. There is a windmill in the SW¼NE¼SE¼NW¼SW¼ of Section 26 but I don't know how deep it is.

In my opinion the only fresh water in this area would be from the Artesia Group and would probably be in the upper 400 feet of the formation.

Yours truly,

James I. Wright
Field Engineer

JIW/tmg
cc Santa Fe

Phone (505) 746-6100

CHEMEX

P. O. Box 423
Artesia, N. M. 88210

WATER ANALYSIS REPORT

Company Yates Drilling Co. Date 11-21-85

Field Metex County Eddy State NM

Lease and Well No. Fresh H_2O well Offset #35 Prod. Formation

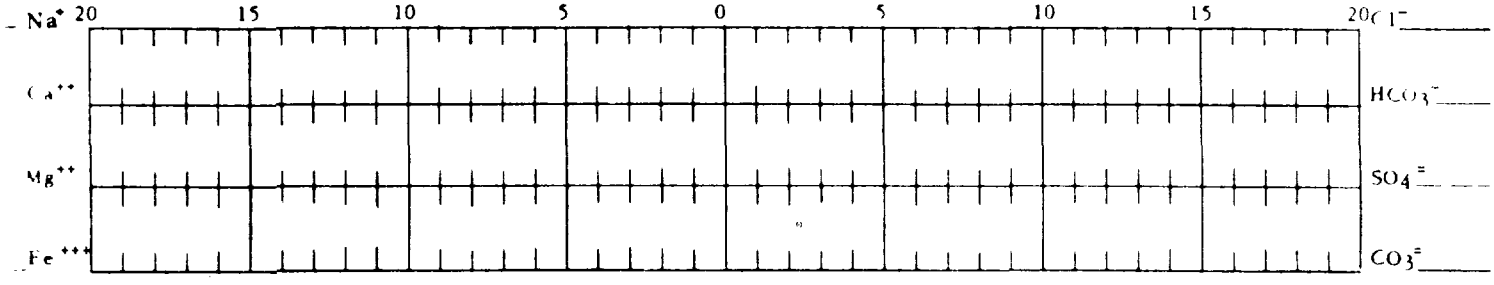
Source of Sample

Sample of Prod. Water ☐ Inj. Water ☐ Other XX

Date Collected Analyst Kent Jones

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me./l* SCALE UNIT)



ssolved Solids nstituent	MG/L (PPM)	EPM
lcium	nil	
agnesium	nil	
dium	nil	
n	nil	
loride	nil	
carbonate	48	
arbonate	0	
ulfate	nil	
tal Hardness	nil	
tal Dissolved Solids	48	
drogen Sulfide	nil	
gen	10+	

ph 6.85

Sp. Gravity

REMARKS

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Depco, Inc.
Suite 875, Empire Plaza
Midland, Texas 79701

4. Type of Service:	Article Number
☐ Registered ☐ Insured ☑ Certified ☐ COD ☐ Express Mail	P 010-002-226

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X D Cantrell

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
N.M. Oil Conservation Division
P O Drawer DD
Artesia NM 88210

4. Type of Service:	Article Number
☐ Registered ☐ Insured ☑ Certified ☐ COD ☐ Express Mail	P 010-002-227

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X A C Scroggin

6. Signature – Agent
X

7. Date of Delivery
12-5-85

8. Addressee's Address *(ONLY if requested and fee paid)*
Artesia Pipeline

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
[illegible] Production Co.
[illegible]
Midland, Texas 79702

4. Type of Service:	Article Number
☐ Registered ☐ Insured ☑ Certified ☐ COD ☐ Express Mail	P 010-001-999

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X [illegible]

7. Date of Delivery
12-5-85

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Southland Royalty Company
200 First National Tower
801 CHERRY ST.
Fort Worth, Texas 76102

4. Type of Service:	Article Number
☐ Registered ☐ Insured ☑ Certified ☐ COD ☐ Express Mail	P 010-001-998

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X Randy Tucker

7. Date of Delivery
12-4-85

8. Addressee's Address *(ONLY if requested and fee paid)*
801 CHERRY ST SUITE 200

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Hip Oil Corporation
PO Box 1150
Midland, Texas 79702

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P-010-001-907

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X L D Parker

7. Date of Delivery
DEC 5 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☑ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Mobil Oil Agent for Superior Oil Co
PO Box 100922
Houston, Texas 77212

4. Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Article Number
P 010 002 [illegible]

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X TONY [illegible]

7. Date of Delivery
DEC 09 1985

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

LEGAL NOTICE

NOTICE OF PUBLICATION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application for authorization for an additional injection well has been submitted for approval to the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501.

Yates Drilling Company, 207 South 4th Street, Artesia, New Mexico, (505) 746-9889, Tobin L. Rhodes, contact party proposes the conversion of a producing well to an injection well to provide additional injection capability in the Artesia Metex Unit Waterflood. The proposed injection will be in the Artesia Metex Unit Waterflood well #35, 1650' FNL and 330' FSL, Section 26-T18S-27E, Eddy County, New Mexico.

Injection will be into the Grayburg formation between 1058' and 1939'. Maximum injection rate will be 500 barrels of water per day. Maximum injection pressure will be 1400 psi.

Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division at the above address within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., Dec. 31, 1985.

Legal No. 11378.