Exhibits 1 through 4 Complete Set

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEX

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 5030 Order No. R-4608

APPLICATION OF YATES DRILLING COMPANY FOR APPROVAL OF THE ARTESIA METEX UNIT AGREEMENT, EDDY COUNTY, NEW MEXICO.

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 25, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 13th day of August, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Drilling Company, seeks approval of the Artesia Metex Unit Agreement covering 2016.93 acres, more or less, of State lands described as follows:

### EDDY COUNTY, NEW MEXICO

TOWNSHIP 18 SCUTH, RANGE 27 EAST, NMPM

Section 24: NW/4 NE/4, S/2 NE/4, S/2

Section 25: N/2, SW/4, N/2 SE/4, SW/4 SE/4

Section 26: E/2 E/2, SW/4 SE/4

Section 35: N/2 NE/4

Section 36: N/2 NW/4

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

Section 19: Lots, 2, 3, 4, E/2 SW/4, W/2 SE/4,

NE/4 SE/4

Section 30: Lots 1, 2, E/2 NW/4, W/2 NE/4, NE/4 SW/4

(3) That approval of the proposed unit agreement should promote the prevention of waste and the protection of correlative rights within the unit area.

BEFORE EXAMINER CATTALLOH
OIL CONSERVATEM LIVELDY

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### IT IS THEREFORE ORDERED:

- (1) That the Artesia Metex Unit Agreement is hereby approved.
- (2) That the plan contained in said unit agreement for the development and operation of the unit area is hereby approved in principle as a proper conservation measure; provided however, that notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinguishing, in any manner, any right, duty, or obligation which is now, or may hereafter be, vested in the Commission to supervise and control operations for the exploration and development of any lands committed to the unit and production of oil or gas therefrom.
- (3) That the unit operator shall file with the Commission an executed original or executed counterpart of the unit agreement within 30 days after the effective date thereof; that in the event of subsequent joinder by any party or expansion or contraction of the unit area, the unit operator shall file with the Commission within 30 days thereafter counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.
- of said unit agreement by the Commissioner of Public Lands for the State of New Mexico; that this order shall terminate ipso facto upon the termination of said unit agreement; and that the last unit operator shall notify the Commission immediately in writing of such termination.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

.I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

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IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 5031 Order No. R-4609

APPLICATION OF YATES DRILLING COMPANY FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 25, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 13th day of August, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Drilling Company, seeks authority to institute a waterflood project in the Artesia Metex Unit Area, Artesia Pool, by the injection of water into the Grayburg formation through 14 injection wells in Sections 24, 25, 26, 35, and 36, Township 18 South, Range 27 East, NMPM, and Sections 19 and 30 of Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

Case No. 5031 Order No. R-4609

- (6) That an administrative procedure should be established whereby additional injection and producing wells at orthodox and unorthodox locations in the project area may be approved without notice and hearing.
- (7) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

### IT IS THEREFORE ORDERED:

(1) That the applicant, Yates Drilling Company, is hereby authorized to institute a waterflood project in the Artesia Metex Unit Area, Artesia Pool, by the injection of water into the Grayburg formation through the following-described wells:

	NEW TRACT					
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State 648		<i>1.</i> c	τ.	25	10	07
Well #116	1	45	L	25	18	27
State 648	4	<b>-</b> /	•	0.5	10	0.7
Well #111	1	54	0	25	18	27
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Well #1	3	6	K	24	18	27
State "D"	_					
Well #1	6	20	P	24	18	27
State "BW"						
Well #12	7	8	I	24	18	27
Gulf State						
Well #1	10	12	K	19	18	28
Eddy "CK"						
Well #1	13	26	Α	26	18	27
Eddy "CL"						
Well #1	16	56	Α	35	18	27
State "E"			ò			
Well #3	17	28	С	25	18	27
Hester St.						
Well #2	19	58	С	36	18 *	27
State 647						
Well #96	20	32	С	30	18	28
State 647						
Well #97	20	49	K	30	18	28
MRY Well						
#2	22	41	E	30	18	28
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Case No. 50' Order No. R-4609

- (2) That prior to initial injection of water into any of said injection wells, the operator shall obtain the approval of supervisor of the Commission's Artesia district office as to the casing and cementing of said well.
- (3) That injection into each of said wells shall be through cement-lined tubing, set in a packer which shall be located as near as practicable to the uppermost perforation, or in the case of open-hole completions, as near as practicable to the casing-shoe; that the casing-tubing annulus of each injection well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.
- (4) That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.
- (5) That the subject waterflood project is hereby designated the Yates Artesia Metex Unit Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- authorized to approve such additional producing wells and injection wells at orthodox and unorthodox locations within the boundaries of the Artesia Metex Unit Area as may be necessary to complete an efficient production and injection pattern, provided said wells are drilled no closer than 660 feet to the outer boundary of said unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the project operator shall file proper application with the Commission, which application, if it seeks authorization to convert additional wells to injection or to drill additional production or injection wells shall include the following:
- (a) A plat showing the location of proposed well, all wells within the project area, and offset operators, locating wells which offset the project area.
- (b) A schematic drawing of the proposed well which fully describes the casing, tubing, perforated interval, and depth.
- (c) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant

-4-Case No. 5031 Order No. R-4609

immediate approval, provided waivers of objection are received from all offset operators.

Expansion of the project area may be approved by the Secretary-Director of the Commission administratively when good cause is shown therefor.

- (7) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

A., L. PORTER, Jr., Member & Secretary

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١.	Operator: Yates Drilling Company
	Address: 207 South 4th Street, Artesia, N.M. 88210
	Contact party: Tobin L. Rhodes Phone: (505) 746-9889
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۱.	proposed for injection. Additional sheets may be attached if necessary.
1.	Is this an expansion of an existing project? " $\square$ yes $\square$ no If yes, give the Division order number authorizing the project $\underline{R-4608}$ , $\underline{R-4609}$
٧.	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.
1.	Attach a tabulation of data on all wells of public record within the area of review whi 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.
ı.	Attach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>
1.	Attach appropriate geological data on the injection zone including appropriate litholog detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquiters 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.
X.	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.)
cJ.	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.
11.	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.
1.	Applicants must complete the "Proof of Notice" section on the reverse side of this form
٧.	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 litle Engineer
	Signature: 121-85

DISTRIBUTION: Uriginal and one copy to Santa le with one copy to the appropriate Division district office.

(2)

### 111. WELL DATA

- 1. The following well data must be submitted for each injection well covered by this application.
  The data must be both in tabular and schemațic form and shall include:
  - (1) Lease name: Well No.: location by Section, Township, and Range: and factage location within the section.
  - (2) Each easing 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. Applicant's 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 achematics 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.

### IIV. 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.

### 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:
  - 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 intermittent streaks of shaley dolomite with traces of anhydrite.

	BEFORE EXAMINER CATANACH OIL CONSERVATION DIVISION
	EXHIBIT NO.
A STATE OF THE REAL PROPERTY.	CASE NO

- 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.

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County of the state of the stat	1	Simm E Reces   1   1   1   1   1   1   1   1   1	Desce et al Cope of the Control of the Cope of the Cop	Amer. Petro  Marie d'Amer.  Marie	Amer. Petro.  Amer. Petro.  And Amer. Petro.  And Amer. Petro.  And Amer. Petro.  Bas Amer. Petro.  Ba
County of the state of the stat	1	Simm E Reces   1   1   1   1   1   1   1   1   1	Desce et al Cope of the Control of the Cope of the Cop	Amer. Petro  Marie d'Amer.  Marie	Amer. Petro.  Amer. Petro.  And Amer. Petro.  And Amer. Petro.  And Amer. Petro.  Bas Amer. Petro.  Ba
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T19S-R27E

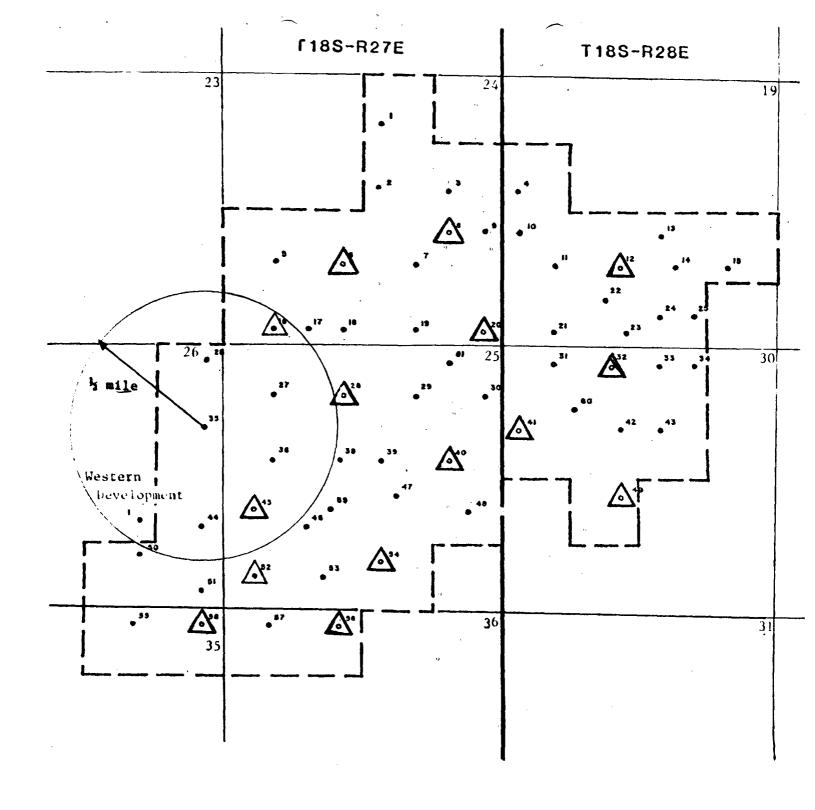
T19S-R28E

# 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 \$\times - injection well\$

EASE NAME: Artesia Mete it	WELL NUMBER: 16
PERATOR: Yates Drilling Company	LEASE NUMBER: NM-648
ORMATION: Grayburg	POOL: Artesia Queen-Grayburg-SA
OCATION: 330' FNL & 990' FWL Section 24	-18S-27E
LEVATION: 3568' GL	TOȚAL DEPTH: 2150'
URFACE CASING: 8 5/8", 24# @ 486'	CEMENT: 50 sx. TOP:
NT. CASING:	CEMENT: sx. TOP:
'ROD. 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 ga	ls. gelled water and 44000# sand
•	
	•
I.PASE NAME: Artesia Metex Unit	well number: 26
OFERATOR: Yates Drilling Company	LEASE NUMBER:
Yates Drilling Company  OFERATOR: Grayburg	LEASE NUMBER: POQL: Artesia Queen-Grayburg-SA
Yates Drilling Company OFERATOR: Yates Drilling Company OFERATION: Grayburg LOCATION: 330' FNL & 330' FEL Section	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA 26-18S-27E
Yates Drilling Company  OFERATOR: Yates Drilling Company  ORMATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section  ELEVATION: 3536' GL	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'
Yates Drilling Company OFERATOR: Yates Drilling Company OFERATION: Grayburg LOCATION: 330' FNL & 330' FEL Section	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:
OFERATOR: Yates Drilling Company OFERATOR: Grayburg LOCATION: 330' FNL & 330' FEL Section ELEVATION: 3536' GL SURFACE CASING: 8 5/8" @ 494' INT. CASING:	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:  CEMENT: 8x. TOP:
Vates Drilling Company  IORMATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section  ELEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'	LEASE NUMBER:  POQL: Artesia Oueen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:  CEMENT: sx. TOP:  CEMENT: 250 sx. TOP: 1500 est.
OPERATOR: Yates Drilling Company OURMATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section ELEVATION: 3536' GL SURFACE CASING: 8 5/8" @ 494' INT. CASING:	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:  CEMENT: sx. TOP:
Yates Drilling Company  IURMATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section  ELEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'  INT. CASING: 4 1/2", 9.5# @ 1991'	LEASE NUMBER:  POQL: Artesia Queen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:  CEMENT: 250 sx. TOP: 1500 est.  COMP. DATE: 4-18-50
OFERATOR: Yates Drilling Company  OFERATOR: Grayburg  LOCATION: 330' FNL & 330' FEL Section  FLEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'  INT. CASING: 4 1/2", 9.5# @ 1991'  SPUD DATE: 3-9-50	LEASE NUMBER:  POQL: Artesia Oueen-Grayburg-SA  26-18S-27E  TOTAL DEPTH: 1991'  CEMENT: 50 sx. TOP:  CEMENT: sx. TOP:  CEMENT: 250 sx. TOP: 1500 est.  COMP. DATE: 4-18-50
IVERATOR: Yates Drilling Company IVERATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section ELEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'  INT. CASING: 4 1/2", 9.5# @ 1991'  SPUD DATE: 3-9-50  PERFORATIONS: Shot open hole 1956-1880 w	LEASE NUMBER:  POQL:Artesia Oueen-Grayburg-SA  26-18S-27E  TOTAL DEPTH:1991'  CEMENT:50
IVERATOR: Yates Drilling Company IVERATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section ELEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'  INT. CASING: 4 1/2", 9.5# @ 1991'  SPUD DATE: 3-9-50  PERFORATIONS: Shot open hole 1956-1880 w  STIMULATION: Breakdown and frac 1856'-1	LEASE NUMBER:  POQL:Artesia Oueen-Grayburg-SA  26-18S-27E  TOTAL DEPTH:1991'  CEMENT:50
IVERATOR: Yates Drilling Company IVERATION: Grayburg  LOCATION: 330' FNL & 330' FEL Section  ELEVATION: 3536' GL  SURFACE CASING: 8 5/8" @ 494'  INT. CASING: 4 1/2", 9.5# @ 1991'  SPUD DATE: 3-9-50  PERFORATIONS: Shot open hole 1956-1880 w  STIMULATION: Breakdown and frac 1856'-1  gelled water and 12000# sa	LEASE NUMBER:  POQL:Artesia Oueen-Grayburg-SA  26-18S-27E  TOTAL DEPTH:1991'  CEMENT:50

EASE NAME:	Artesia Met Jnit	WELL NUMBER: 27
PERATOR:	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:
		CEMENT: sx. TOP:
SPUD DATE:		COMP. DATE: 3-31-50
PERFORATIONS:	None	
STIMULATION:	Shot open hole 1940-2040 with	390 qts. Nitro:
	Frac with 40000 gals. gelled w	ater and 30000# sand
COMP. TYPE:	Completed open hole, as oil we	11.
		a - a
		tiri i Minanio
	Artesia Metex Unit	WELL NUMBER: 35
OPERATOR:	Yates Drilling Company	LEASE NUMBER:
TURMATION:	Grayburg	POQL: Artesia Queen-Grayburg-SA
LOCATION:	1650' FNL & 330' FEL Section	
ELEVATION:	3525' GL	TOTAL DEPTH: 1987'
SURFACE CASIN	G: 7", 23# @ 485'	CEMENT: 410 sx. TOP: Surface
INT. CASING:	*	CEMENT: sx. TOP:
PROD. CASING:	45", 10.5# @ 1987'	CEMENT: 175 Bx. TOP: 1400 Temp. Sur
SPUD DATE:	4-27-50	COMP. DATE:
PERFORATIONS:	1858-1939	
STIMULATION:	Frac perfs with 40000 gals. g	gelled water and 73700# sand
-		
-		
COMP. TYPE.	Originally drilled then P&A	Parantarad 4-93

CURRENT STATUS: Pumping oil well

FORMATION:	rayburg	POOL: Artesia Queen-Grayburg-SA
LOCATION: 2	310' FNL & 990' FWL Section 25-	18S-27E
ELEVATION:	3551' GL	TOTAL DEPTH:
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:	at	360 qts. Nitro.
		gelled water and 40000# of sand
<del></del>	Frac 1918-32 with 20000 gals	gelled water and 40000# sand
COMP. TYPE:		fan 45" csg. perfed & frac'd 11-57
	Pumping oil well	'n
		, 
I PASE NAMP:	Artesia Metex Unit	WELL NUMBER: AA
OPERATOR:	Yates Drilling Company	LEASE NUMBER: B-11083
FURMATION:	Grayburg	POQL: Artesia Queen-Grayburg-SA
LOCATION:	1650' FSL & 330' FEL Section	
ELEVATION:		TOTAL DEPTH: 2030'
	: 8 5/8" @ 502'	CEMENT: 50 sx. TOP:
		CEMENT: ex. TOP:
		CEMENT: Bx. TOP:
SPUD DATE:		COMP. DATE: 9-9-51
PERFORATIONS:		
<del>-</del>	Shot open hole 1861-1971 wi	ith 430 ate Nitro
We assured a sum o		er @ 1845! with 40000 gals gelled, wat
-	and 30000# sand.	
"OMB TVDF.		nole. Re-entered 5-67. left open hole.
COMP. TYPE:	Pumping oil well	ore, we enterted 5 of , Tert open note.
COMPENS SIVIO	1	

WELL NUMBER

LEASE NUMBER:

36

NM-648

LEASE NAME: Artesia Met Init

OPERATOR: Yates Drilling Company

ease name:	Artesia Met	WELL NUMBER: 45
PERATOR:	Yates Drilling Company	LEASE NUMBER: NM-648
ORHATION:	Grayburg	POOL: Artesia Queen-Grayburg-SA
OCATION:	1980' FSL & 660' FWL Section 25-	18S-27E
	3552' GL	TOTAL DEPTH: 2010
URFACE CASING	8 5/8", 28# @ 500'	CEMENT: 50 sx. TOP:
NT. CASING:		CEMENT: sx. TOP:
ROD. CASING:	4½", 11.6# @ 2010'	CEMENT: 175 sx. TOP: 1510 est.
PUD DATE:	11-51	COMP. DATE: 10-51
ERFORATIONS:_	1873-2005	
TIMULATION:		400 qts. Nitro.'
	Acidized perfs. with 4000 gals	. 15% нсг.
-	Frac 1873-2005 with 72500 gals	oil and 14000# sand
COMP TYPE:	Originally completed open hole	Pan /12" agg 1.58
	Western Development	
Lease Name:		WELL NUMBER: 1
DIERATOR:	H&S Oil Company	LEASE NUMBER: B-11083
ORMATION:	Grayburg	POCL: Artesia Queen-Grayburg-SA
LOCATION:	1650' FSL & 1650' FEL Section	
ELEVATION:	3522' GL	TOTAL DEPTH: 1945' PBTD 1931'
	<b>C:</b> 8 5/8", 24# @ 301'	CEMENT: 50 sx. TOP:
INT. CASING:		CEMENT: sx. TOP:
PROD. CASING:	5½", 14# @ 1931'	CEMENT: 50 Bx. TOP:
		COMP. DATE: 10-29-60
	1904-08', 1912-14'. 1916-18'	
STIMULATION:	Original 20000 gals lease crud	e with 14000 # sand
_		
_		
COMP TYPE.	Oil well	

CURRENT STATUS: Pumping oil well

APR 3 0195



### STATE OF NEW MEXICO

# STATE ENGINEER OFFICE ROSWELL

S. E. REYNOLDS STATE ENGINEER

April 29, 1985

OISTRICT II
909 E. 2nd STREET
PO 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:

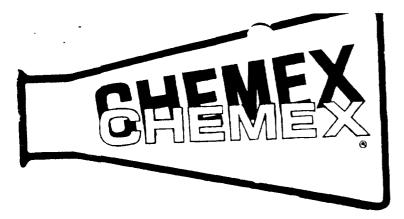
In reply to your letter of April 24, 1985, regarding water wells in the vicinity of section 26, Township 18 South, Range 27 East, this is to advise you that we have very little data in this area. There is a windmill in the  $SW_4NE_4SE_4NW_4SW_4$  of Section 26 but I don't know how deep it is.

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



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

(B)

### WATER ANALYSIS REPORT

CompanyYates Dril	ling Co.	<del>-</del>					Date_	11-21-	8 5
Field Metex			*9	Cor	unty_Edd				
Lease and Well No. Fresh	H <sub>2</sub> O well Offse						-		
Source of Sample					<del></del>				·
Sample of Prod. Water()	Inj. Water	OtherX	×		e.				
Late Collected			Analyst	<u>K</u>	ent Jon	es	<del></del>		
_ Na* 2015	NUMBER BESIDE ION	ANALY:	NDICATE	S me 1'		10	1	5	200-1-
( a · · ·	<del>                                     </del>	+ + + -				+++	++-		HCO3
Mr	+	+-+	<del> </del>		-   -   -   -		-+-	 	SO4 =
1		111					44		Cos
Enssolved Solids Constituent	MG/L (PPM)	4		E	РМ .				
Calcium	nil nil		-					6.85	
Coloride	nil nil 48		-	.,					
CarbonateSulfate	0 nil					 			
Total Hardness Total Dissolved Solids Hydrogen Sulfide Gygen	nil 48 nil 10+			t,		 			
Remarks:		* 1							
					у.				

valiable. Consult postma: pervice(s) requested.	es the following services are ster for fees and check box(es)
Show to whom, da	te and address of delivery.
Article Addressed to:	
Deper An	c .
Seute 875,	Empire Plaza  Lucas 79701  Assista Number
Midland	Lugar 79701
4. Type of Service:	Article Number
Aegistered Insu Decentified Insu Express Mail	
Always obtain <b>signature</b> ( DATE DELIVERED.	of addressee <u>or</u> agent and
5. Signature – Addresse X	
6 Signiture - Agent	trick.
7. Date . * Delivery	
8. Adic essee's Address (	ONLY if requested and fee paid)
	i

PS F 1771 2811, July 1983 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 ad intonal fees the following services are available. Consult postcraster for fees and sheck box(es) for services in the following services are services.						
447-845							
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	married, Disper 19702						
	4. Type of Service: Article Number						
	☐ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail						
	Always obtain signature of addressee or agent and DATE DELIVERED.						
DOMESTIC RETURN RECEIF	5. Signature – Addressee X						
EST	6. Signature - Agent						
CF	7. Date of Selivery						
IET.	125-85 (55)						
BR	8. Addressee's Address (ONLY if requested the leg (194)						
REC	USF						
CEIF							

Form 3811, July 1883 447-845	Put your address in		
345	3. Article Addressed to: Th.M. i i Conspiration Revision POLrawer DO Corlegia MM 88210		
	4., Type of Service: Article Number    Registered   Insured   Cortified   COD     Express Mail   P. C10		
_	Always obtain signature of addressee <u>or</u> agent and <u>DATE DELIVERED.</u> 5. Signature – Addressee		
DOMESTIC	X ( Scool Green  6. Signature - Agent 0 0		
	X		
JETU!	7. Date of Delivery		
RETURN RECEIPT	8. Addressee's Address (ONLY if requested and jee paid)  Calina of offered		

3[	SENDER: Complete items 1, 2, 3 and 4.					
Form 3811, July 1983 447-845	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 evailable. Consult postmaster for fees and check box(es) for service(s) requested.					
883	1. Show to whom, date and address of delivery.					
2. Restricted Delivery.						
8	3. Article Addressed to:					
	Southland Rugardy Company					
	Lest worth, Jet ST.					
	4. Type of Service: Article Number					
	☐ Registered ☐ Insured ☐ COD ☐ Express Mail ☐ COD ☐ COL ☐ C					
	Always obtain signature of addressee or agent and DATE DELIVERED.					
9	5. Signature – Addressee X					
ÆSI	6. Signature - Agent					
2	x landy lucker					
RETU	7. Date of Delivery \ /2-4-85					
DOMESTIC RETURN RECEIP	8. Addressee's Address (ONLY if requested and fee paid)  BOI CHERRY ST SUITE ZCO					
CEIPT	*					

זג	SESIDED: Complete items 1 2 3 and 4			
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 boxies) for services (s) requested.			
1983 447	1. Life these to whom, date and address of delivery. 2. Life Restricted Delivery.			
845	3 Article Addressed to:  Africa CJ Consparation  PC Best 1150  Mudiani, Diga, 79102			
	4 Type of Service: Article Number			
	D Registered □ Insured □ COD □ Contribut □ COD □ COD □ COD □ Existens Mail □ COD □			
į	Alcares I tan signature of addressee or agent and DATE DEEMERED.			
MOD	5 grature - Addressee X			
ESTIC	X. A. Agent X. A. Agent X. A.			
RETU	CEO CEO			
DOMESTIC RETURN RECEIP	Address (ONLY if reques would fee paid)			
Ä				

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.								
Put your address in the "HETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will prove you the name of the person delivered to and the determined available. Consult postmaster for fees and check boxies for service(s) requested.  1. L' Show to whom, date and address of delivery.  2. L' Restricted Delivery.  3. Article Addressed to.  7. Charling a glad for Lagrana.								
							Houston, Dix	no 177212
							4. Type of Service:	Article Number
Registered Insured COD Express Mail	P (16:00) 235							
Always obtain signature of addressee or agent and DATE DELIVERED.								
5. Signature - Addressee X								
X  6. Signature - Agent X  7. Date of Delivery  BEC 0 9 1985  8. Addressee's Address (ONLY if requested and fee)								
						8. Addressee's Address (ONL	Y if requested and fee paid)	
							reverse side. Failure to do this being returned to you. The ret you the name of the person de delivery. For additional fees the available, Consult postmaster of for service(s) requested.  1. Expression to whom, date and the service of the service	

### **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.

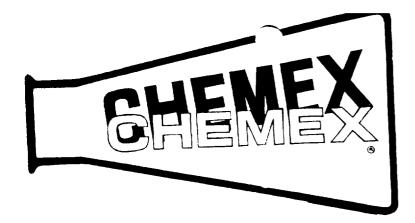
Yates Drilling Company, 207
South 4th Street, Artesia,
New Mexico, (505) 746-9889,
Tobin L. Rhodes, contact
party proposes the conversion of a producing well to an
injection well to provide additional injection capability
in the Artesia Metex Unit
Waterflood. The proposed injection will be in the Artesia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



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

### **WATER ANALYSIS REPORT**

CompanyYates Dri	lling Co.		Date4-2-86						
FieldMetex		County Eddy	StateNM						
Lease and Well No. Metex #	25P	rod. Formation							
Source of Sample wellhead									
Sample of Prod. Water X Inj. Water Other 1									
Date Collected 4-1-85		Analyst Fred Jones							
	WATER ANALY	SIS PATTERN							
Na* 20 15		INDICATES me I* SCALE UNIT)  0 5 10	15 20C1-						
Ca**	++++++++	+++++	HCO3-						
.Mg**	│ <del>┤</del> ╂ <del>┼┼</del> ┼┼┼┼┼	<del>                                     </del>	SO4 =						
Fe***			co <sub>3</sub> =						
Dissolved Solids Constituent	MG.L (PPM)	EPM							
Calcium	820 1230 25;400 -C- 49,600 355 185		ph <u>6.6</u> Sp. Gravity						
Total Hardness  Total Dissolved Solids  Hydrogen Suifide  ()xygen	2050 54,350 4+								
Remarks:									