

# STATE OF NEW MEXICO

# ENERGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

March 10, 1982

Depco, Inc. 800 Central Odessa, Texas 79760

ATTENTION: Leon Standard

RE: Northwest Artesia Unit Waterflood Expansion

Dear Sir:

As of July 1st, 1981, the Oil Conservation Commission has some rule changes on injection of fluids into reservoirs. Enclosed you will find a copy of the new rules on this matter and also our new C-108 Form. The instructions for administrative approval are found on the application.

If I can be of further assistance, please feel free to call upon me.

Sincerely,

Roy Johnson

Petroleum Geologist

RJ/dp

Enc.

Sp.

## STATE OF NEW MEXICO ENLRGY AND MINERALS DEPARTMENT

# OIL CONSERVATION DIVISION

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

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APPL	ALL ALLIN	FIIR	AUTHORIZATION	111 IN.11 I

PPLICA	TION FOR AUT	HORIZATION TO INJECT		
Ι.	Purpose: Applicat	X Secondary Recovery Lagon qualifies for administr	Pressure Maintenance Estive approval? Xyes	Disposal SANTAt FEage
II.	Operator:	DEPCO. Inc.		
	Address: _	800 Central, Odessa, TX	79761	
	Contact par	ty: Leon Standard	Phone:	915-337-1536
111.	Well data:	Complete the data required proposed for injection.		
IV.	Is this an If yes, giv	expansion of an existing prove the Division order number	roject? X yes I authorizing the project	no
٧.	injection w	up that identifies all wells well with a one-half mile ra s circle identifies the well	idius circle drawn around	
VI.	penetrate t well's type	bulation of data on all well the proposed injection zone e, construction, date drille e of any plugged well illust	Such data shall included, location, depth, reco	e a description of each rd of completion, and

- Attach data on the proposed operation, including:
  - Proposed average and maximum daily rate and volume of fluids to be injected;
  - 2. Whether the system is open or closed;
  - Proposed average and maximum injection pressure;
  - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  - 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 in ection interval.
  - IX. Describe the proposed stimulation program, if any.
- Χ. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
  - Applicants for disposal wells must make an affirmative statement that they have XII. 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

VII.

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

Name:	I	eon Stand	lard /2/	_ Title	<u> Field Eng</u>	<u>ineer                                   </u>	
Signature:	Seen	Vien .		Date:	March 25,	1982	
_			7				

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

### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical well: 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 applic∈tion. All items must be addressed for the initial well. Responses for additional wells reed 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. D. 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.

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	any other casing-tubing	g seal).		•
her Data				
Name of	the injection formation	Grayburg (Premier	) /	
Name of	Field or Pool (if appli	cable) Artesia Q. Grb.	S.A.	
	a new well drilled for .		<u>√</u> No	-
If no, f	or what purpose was the	well originally drilled	7 Producer	
		ad in any ather area/s\2	tiet all such asse	orated interest
Has the and give	plugging detail (sacks	ed in any other zone(s)? of cement or bridge plu	g(a) used) No	- 12 mile
				The last the

# APPLICATION FOR AUTHORIZATION TO INJECT

# SECTION III

Northwest Artesia Unit No. 12

/Location: 990' FSL & 760' FWL (Unit M) Sec. 32, T-17-S, R-28-E

✓Date Drilled: 5-6-67

Depth: 1997' PBTD 1989'

Hole size: 11" to 495', 7 7/8 to 1997'

Casing size: 8 5/8", 24# @ 495' w/100 sx., TOC circ. (calc)

4 1/2" 11.6# @ 1997' w/150 sx., TOC 1205' (calc)

Tubing size: 2 3/8 internally plastic coated set at 1875' (est)

Packer: 4 1/2" retrievable (brand subject to availability)

Perforations: 1922 - 1949'

1922

1875 47' Oh

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

# APPLICATION FOR AUTHORIZATION TO INJECT

# SECTION VI

A tabulation of data on all wells within the area of review which penetrate the proposed injection zone. DEPCO, Inc. is the operator of the Northwest Artesia Unit.

NORTWEST ARTESIA UNIT NO. 4

Location: 2277' FNL & 330' FEL (Unit H) Sec. 31, T-17s, R-28e

/ Date Drilled: 3-11-66 Depth: 6200', PBTD 2003'

Casing: 8 5/8", 24# @ 808' w/350 sxs., 4 1/2", 11.6# @ 2018/ w/150 sxs.

Perforation: 1898'-1906' Current Status: Water Injector

NORTHWEST ARTESIA UNIT NO. 8

Location: 2310' FSL & 2105' FWL (Unit K) Sec. 32, T-17s, R-28e

Date Drilled: 5-30-66 Depth: 2003', PBTD 1996'

Casing: 8 5/8", 24# @ 462' w/125 sx., 4 1/2", 11.6# @ 2002' w/175 sxs.

Ferforation: 1898'-1908', 1930'-34'

Current Status: Oil Producer

NORTHWEST ARTESIA UNIT No. 10

Location: 1980' FSL & 660' FEL (Unit I) Sec. 31, T-17s, R-28e

Date Drilled: 6-8-66
Depth: 2000', PBTD 1994'

Casing: 8 5/8", 24# @ 498' w/100 sx., 4 1/2" 11.6# @ 2000' w/175 sxs.

Ferforation: 1913'-25', 1944'-45'
Current Status: Oil Producer

NORTHWEST ARTESIA UNIT NO. 11

Location: 990' FSL & 660' FEL (Unit P) Sec. 31, T-17s, R-28e

Date Drilled: 5-4-67
Depth: 2012', PBTD 2004'

Casing: 8 5/8", 24# @ 495' w/125 sxs, 5 1/2", 17 & 15# @ 2005' w/125 sxs.

Perforation: 1935'-45', 1965'-67' Current Status: Water Injector

NORTHWEST ARTESIA UNIT NO. 13

Location: 990' FSL & 2030' FWL (Unit N) Sec. 32, T-17s, R-28e

Date Drilled: 6-17-66

Depth: 2006', PBTD 1996'

Casing: 8 5/8", 24 & 28# @ 493', w/125 sx., 4 1/2", 11.6# @ 2003' w/175 sxs.

Perforation: 1921'-26', 1952'-54' Current Status; Water Injector

NORTHWEST ARTESIA UNIT NO. 16

Location: 330' FNL & 330' FEL (Unit A) Sec. 6, T-17s, R-28e

Date Drilled: 2-21-67

Depth: 3273', PBTD 2034'

Casing: 8 5/8", 24# @ 495' w/100 sx., 4 1/2" 11.6# @ 3273' w/285 sx.

Perforation: 1962'-94'

Current Status: 0il Producer

W. E. JEFFERS: STATE 32 NO. 1

Location: 1650' FEL & 1350' FSL (Unit J) Sec. 32, T-17s, R-28e

Date Drilled: 3-12-58

Depth: 2075'

Casing: 8 5/8", 24# @ 516' w/50 sx., 5 1/2", 15.5# @ 2074' w/150 sx. Perforation: 1919-29', 1930-46', 1947-57', 2029-39'

Current Status: Oil Producer

W. E. JEFFERS: STATE 32 NO. 2

Location: 1980' FEL & 1980' FSL (Unit J) Sec. 32, T-17, R-28e

Date Drilled: 8-30-59 Depth: 2075', PBTD 1990'

Casing: 8 5/8", 24# @ 498' w/50 sx. (Pulled 350'), 7" @ 1680' w/200 sx. Tropoble 529

Perforation: 0.H. 1680'-1990' Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. F-25

Location: 977' FWL & 2280' FNL (Unit E) Sec. 32, T-17s, R-28e

Date Drilled: 9-13-60 Depth: 6013', PBTD 5933'

Casing: 8 5/8", 22.7# @ 976' w/500 sx., 5 1/2" 14# @ 6042' w/850 sx. Perforation: 5830'-60'(sqz) 5880'-5992' (sqz) 5830'-80'

Current Status: Gas Injector

ARCO: EMPIRE ABO UNIT NO. F-26

Location: 2280' FNL & 1980' FWL (Unit F) Sec. 32, T-17s, R-28e

Date Drilled: 8-24-60 Depth: 6171', PBTD 6134'

Casing: 8 5/8", 24# @ 1007' w/550 sx., 4 1/2" 9.5 & 11.6# @ 6171' w/1000 sx.

Perforation: 5844'-92'

Current Status: Shut-in producer

ARCO: LEMPIRE ABO UNIT NO. G-24

location: 1650' FSL & 330' FEL (Unit I) Sec. 31, T-17s, R-28e

Late Drilled: 4-30-60 Lepth: 6106', PBTD 6068'

Casing: 8 5/8", 28# @ 738' w/250 sx., 5 1/2" 15.5# @ 6104 w/450 sx. (perf 2899-2900\*

sqz w/450 sx.)

Ferforation: 6024-44' (sqz) 5862-83'

(urrent Status: Gas injector

ARCO: EMPIRE ABO UNIT NO. G-25

Location: 990'FWL & 1650' FSL (Unit L) Sec. 32, T-17s, R-28e

Date Drilled: 4-13-60 Depth: 6123', PBTD 6095'

Casing: 8 5/8", 24# @ 728' w/225 sx., 5 1/2" 15.5# @ 6125 w/450 sx. (Perf 2450 51'

sqz w/850 sx.)Ferforation: 5996'-6012'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. G-26

Location: 2310' FWL & 1650' FSL (Unit K) Sec. 32, T-17s, R-28e

Date Drilled: 3-27-60 Depth: 6083', PBTD 6048'

Casing: 8 5/8", 24# @ 748' w/225 sx., 5 1/2", 15.5# @ 6099' w/450 sx. (Perf. 2410-11'

sqz. w/900 sx.)

Perforation: 5966'-5982'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. G-27

Location: 1650' FSL & 1961' FEL (Unit J) Sec. 32, T-17s, R-28e

Date Drilled: 6-18-60
Depth: 6165', PBTD 6130'

Casing: 8 5/8", 22.7# @ 848' w/450 sx., 4 1/2" 9.5# @ 6165' w/850 sx.

Ferforation: 6036'-60', 6074-84', 6092-6112'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-24

Location: 660' FEL & 660' FSL (Unit P) Sec. 31, T-17s, R-28e

Date Drilled: 3-12-60 Depth: 6122', PBTD 6087'

Casing: 8 5/8", 24# @ 778' w/250 sx., 5 1/2" 14# @ 6122' w/450 sx. (Perf 2450 51'

sqz. w/750 sx.)

Perforation: 6026'-40'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-25

Location: 660' FSL & 660' FWL (Unit M) Sec. 32, T-17s, R-28e

Date Drilled: 3-5-60

Depth: 6187'

Casing: 8 5/8", 24# @ 770' w/750 sx., 5 1/2" 14# @ 6187' w/450 sx. (Perf 2575-76

sqz. w/800 sx.)
Perforation: 6020-30'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-26

Location: 1980' FWL & 660' FSL (Unit N) Sec. 32, T-17s, R-28e

Date Drilled: 2-14-60 Depth: 6172', PBTD 6134'

Casing: 8 5/8", 24# @ 779' w/280 sx., 5 1/2" 14# @ 6172' w/400 sx.

Perforation: 5972'-5998' (sqz) 6112'-6123'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-261

Location: 1400' FWL & 150' FSL (Unit N) Sec. 32, T-17s, R-28e

Date Drilled: 7-25-75 Depth: 6220' PBTD 6170'

Casing: 8 5/8", 24# @ 1000' w/400 sx., 5 1/2" 15.5# @ 6220' w/1133 sx.

Perforation: 6154'-64' (sqz.) 6112'-26'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-27

Location: 1950' FEL & 650' FSL (Unit 0) Sec. 32, T-17s, R-28e

Date Drilled: 1-24-60

Depth: 6215', PBTD 6180'

Casing: 8 5/8", 24# @ 984' w/circ, 4 1/2", 9.5# @ 6215' w/850 sx.

Perforation: 6010'-30 (sqz) 6050'-70' (sqz) 6134-56'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. H-271

Location: 1450' FEL & 330' FSL (Unit 0) Sec. 32, T-17s, 28e

Date Drilled: 6-17-75
Depth: 6255', PBTD 6221'

Casing: 8 5/8", 24# @ 1007' w/550 sx., 5 1/2" 14# @ 6255' w/900 sx.

Perforation: 6025-50' (sqz) 6140-58'

Current Status: Oil Producer

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ARCO: EMPIRE ABO UNIT NO. H-272 Location: 2481' FEL & 330' FSL (Unit 0) Sec. 32, T-17s, R-28e Date Drilled: 7-20-77 Depth: 6370', PBTD 6261' Casing: 8 5/8", 24# @ 600' w/245 sx., 5 1/2" 14 & 15.5# @ 6370' w/1500 sx. Perforation: 6139'-44', 6150-54', 6162'-66' Current Status: Oil Producer ARCO: EMPIRE ABO UNIT NO. H-28 Location: 660' FEL & 660' FSL (Unit P) Sec. 32, T-17s, R-28e Date Drilled: 6-2-60 Depth: 6319', PBTD 6285' Casing: 8 5/8", 22.7# @ 1229' w/550 sx., 4 1/2" 9.5# @ 6341' w/850 sx. Perforation: 6234'-68' Ot\_ Current Status: Oil Producer ARCO: EMPIRE ABO UNIT NO. H-281 Location: 200' FSL & 660' FEL (Unit P) Sec. 32, T-17s, R-28e Date Drilled: 9-20-78 Depth: 6330' Casing: 8 5/8", 24# @ 600' w/330 sx., 5 1/2" 15.5# @ 6330' w/1215 sx. perforation: 6169'-89' (sqz) 6252'-62' Current Status: Oil Producer ARCO: EMPIRE ABO UNIT NO. I-24 Location: 660' FNL & 660' FEL (Unit A) Sec. 6, T-18s, R-28e Date Drilled: 2-29-60 Depth: 6241', PBTD 6221' Casing: 8 5/8", 24# @ 638' w/250 sx., 5 1/2" 14# @ 6241' w/450 sx. (Perf 2520-22' sqz. w/1030 sx.)Perforation: 6103'-6118' (sqz) 6186'-96' Current Status: Oil producer ARCO: EMPIRE ABO UNIT NO. I-25 Location: 660' FNL & 660' FWL (Unit D) Sec. 5, T-18s, R-28e Date Drilled: 3-27-60 Depth: 6273', PBTD 6238' Casing: 8 5/8", 22.7# @ 1186' w/750 sx., 5 1/2" 14# @ 6309' w/850 sx. Perforation: 6122-68' (sqz) 6150-58' Current Status: Oil Producer ARCO: EMPIRE ABO UNIT NO. I-251 Location: 660' FNL & 150' FWL (Unit D) Sec. 5, T-18s, R-28e

Date Drilled: 1-7-79
Depth: 6250', PBTD 6185'

Casing: 8 5/8", 24# @ 745' w/315 sx., 5 1/2" 15.5# @ 6245' w/1350 sx.

Perforation: 6012-34'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. 1-26

Location: 330' FNL & 1941' FWL ( Unit C) Sec. 5, T-18s, R-28e

Pate Drilled: 7-18-60
Pepth: 6254', PBTD 6218'

Casing: 8 5/8", 22.7# @ 743' w/450 sx., 5 1/2" 14# @ 6287' w/850 sx.

Ferforation: 6060'-96'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. I-261

Location: 1914' FWL & 1080' FNL (Unit C) Sec. 5, T-18s, R-28e

Date Drilled: 1-6-79
Depth: 6350', PBTD 6293'

Casing 8 5/8", 24# @ 550' w/290 sx., 5 1/2" 15.5# @ 6345' w/1325 sx.

Perforation: 6174'-6204'
Current Status: 0il Producer

ARCO: EMPIRE ABO UNIT NO. I-27

Location: 2271' FEL & 330' FNL (Unit B) Sec. 5, T-18s, R-28e

Date Drilled: 3-30-60 Depth: 6261', PBTD 6228'

Casing: 8 5/8", 22.7# @ 1239' w/750 sx., 4 1/2", 9.5# @ 6282' w/900 sx.

Perforation: 6140'-77', 6184'-97'
Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. I-271

Location: 1700' FEL & 670' FNL (Unit B) Sec. 5, T-18s, R-28e

Date Drilled: 4-12-76 Depth: 6350', PBTD 6287'

Casing: 8 5/8", 24# @ 535' w/200 sx., 5 1/2" 14 & 15.5# @ 6350' w/1080 sx.

Perforation: 6174-84' (sqz) 6250-60'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. I-272

Location: 1300' FNL & 2345' FEL (Unit B) Sec. 5, T-18s, R-28e

Date Drilled: 7-25-78
Depth: 6350', PBTD 6283'

Casing: 8 5/8", 24# @ 550' w/332 sx., 5 1/2" 15.5# @ 6350' w/1655 sx.

Perforation: 6190'-6210' Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. I-273

Location: 1300' FNL & 1595' FEL (Unit B) Sec. 5, T-18s, R-28e

Date Drilled: 8-24-78 Depth: 6357', PBTD 6304'

Casing: 8 5/8", 24# @ 550' w/310 sx., 5 1/2" 15.5# @ 6351' w/1307 sx.

Perforation: 6200'-10'

Current Status: Oil Producer

ARCO: EMPIRE ABO UNIT NO. I-28

Location: 330' FNL & 970' FEL (Unit A) Sec. 5, T-18s, R-28e

Date Drilled: 2-16-60 Depth: 6290', PBTD 6285'

Casing: 8 5/8" 22.7# @ 1177' w/500 sx., 4 1/2" 9.5# @ 6315' w/750 sx.

Perforation: 6230'-35', 6256'-85'
Current Status: 0il Producer

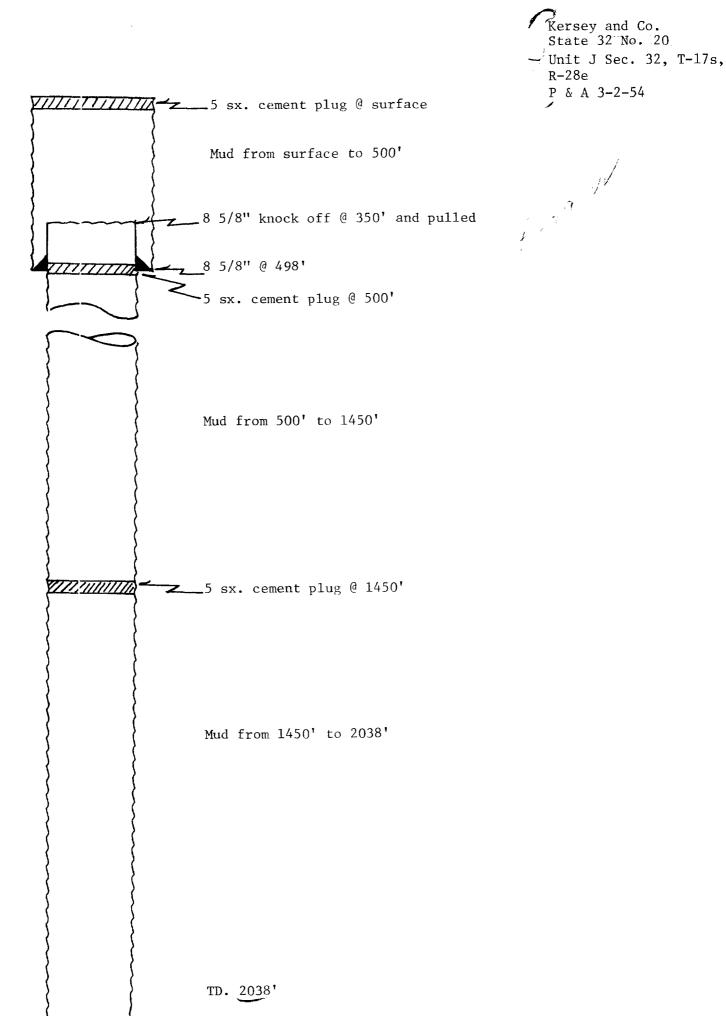
AMINOIL: STATE E No. 1

Location: 1659.9' FNL & 330' FWL (Unit E) Sec. 5, T-18s, R-28e

/Date Drilled: 5-10-60 Depth: 6265', PBTD 6228'

Casing: 9 5/8", 36# @ 1149' w/550 sx., 5 1/2" 7, 20 & 23# @ 6265' w/250 sx.

Perforation: 6165'-6195'
Current Status: 0il Producer



### SECTION VII

- 1. DEPCO, Inc. proposes to inject approximately 200 barrels of water per day.
- 2. The injection system is closed.
- 3. Average expected wellhead injection pressure is <u>1150</u> psig with a maximum of 1250 psig.
- 4. The injection fluid will consist of fresh water, obtained from a system owned by the City of Carlsbad and produced water from the lease.
- 5. Injection will be into the Premier section of the Grayburg.

### SECTION VIII

The Northwest Artesia Unit is located approximately 12 miles east of the town of Artesia, in Eddy County, New Mexico. The unit is producing from the Grayburg (Premier) of the Artesia Queen, Grayburg, San Andres Field. The Premier section of the Grayburg Sand is approximately 40' to 45' thick and is located at an approximate depth of 1975'.

No major fresh water aquifers exist in this area. However, shallow fresh water zones (Santa Rosa) are found to a depth of approximately 300'.

## SECTION IX

The stimulation program will consist of a 500 gallon clean up treatment using A-Sol, Xylene and acid.

### SECTION X

Attached please find the log on this well and the completion reports. The latest test on this well shows 2 BO and 65 BWPD.

## SECTION XI

A one mile radius around the well has been examined for producing fresh water wells. The only fresh water wells in this area are located approximately one (1) mile from the proposed injection well. These wells are shut-in at this time.

### SECTION XII

The proposed injector will become a part of an existing waterflood project.

# SECTION XIII

A copy of the previous application was sent to all offset operators along with a waiver of objection to the conversion of this well.

Attached are signed copies of these waivers. Also attached are photocopies of certified mail receipts from this application.

The surface rights in this area of review are state and a copy of this application has been sent to the State Land Office.

Since this application is subject to administrative approval, proper notice will be published in the Artesia Daily Press. (See attached letter). Copies of this notice will be forwarded by the paper to Santa Fe and the Artesia District Office at the time of publication.

Leasehold operators within the area of review are listed below:

ARCO Oil and Gas Company
W. E. Jeffers
Kersey and Company
Aminoil USA

A T T A C H M E N T
S E C T I O N V I I

.

601 NORTH LEECH

P.O.BOX1499

HORES, NEW MEXICO BRZ40

To the first OMPANY : DEPCO INTE : 3-24-82 IELD: LEASESWELL : N.W.A.U. FRESH AMPLING POINT: INTE SAMPLED : 3-19-82 PECIFIC GRAVITY = 1.001 OTAL DISSOLVED SOLIDS = 1902 H = 7.3 ME/I. MG/L CATIONS ALCIUM MAGNESIUM 3.5 70.1 (CA)+25.5 (MC) + 2 8.88 533. MUIDO (NA), CALC. 23.2 ANTONS SICAREONATE CARSONATE HYDROXIDE 183. (HCO3)-13 (CO3)-2 0 0 (OH)-1 0 0 SULFATE HLORIDES (504) - 21.0 49 999. (CL)-1 28.2 DISSOLVED GASES NOT RUN AREON DIGNIDE (002) YDROGEN SULFTDE (H2S) NYCEN (02) RON(TOTAL) BARIUN (FE) 1.3 (EA) + 2. 3 IANGANESE MOT RUM (MM) SCALING INDEX TEMP

3 0 C 8 6 F CARRONATE INDEX .460 LIKELY

SULFATE INDEX CALCIUM SULFATE SCALING -17. UNLIKELY

## 601 NORTH LEECH

F.O.EOX1499

# HOBES, NEW MEXICO 88240

COMPANY: DEPCO

BATE: 3-24-82
FIELD: LEASE EWELL: N.W.A.U. PRODUCED

SAMPLING POINT:

BATE SAMPLED: 3-19-82

SPECIFIC CRAVITY = 1.027 TOTAL DISSOLVED SOLIDS = 41252 PH = 6.75

			ME/L	MG/L
CATIONS				
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA),CALC		133. 126. 458.	2672 1539. 16543.
ANIONS				
EICARBONATE CARBONATE HYDEOXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1		10.8 0 0 59.2 648.	658. 0 0 2843. 22794.
DISSOLVED GASES				
CARBON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)		NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) EARIUM MANGANESE	(FE) (EA)+2 (MN)		NOT RUN NOT RUN	3.2
SCALING	INDEX	TEME		
		30C 86F		

SCALING INDEX TEMP

30C
86F
CAREONATE INDEX .356
CALCIUM CARRONATE SCALING LIKELY

SULFATE INDEX .124
CALCIUM SULFATE SCALING LIKELY

# 601 NORTH LEECH

P.O.BOX1499

MG/L

ME/L

HOBBS. NEW MEXICO 68240

COMPANY: DEPCO DATE: 3-24-82 FIELD.LEASESWELL: N.W.A.U. 25% FRESH/75%PRODUCED SAMPLING POINT: DATE SAMPLED: 3-19-82

SPECIF	IC GRA	VITY =	1.021	
TOTAL PH = 4		VED SOL		31419

CATIONS			
CALCIUM MAGNESIUM SCDIUM	(CA)+2 (MG)+2 (NA),CALC.	100. 96.3 349.	2021. 1175. 8040.
ANIONS			
RICAREONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	8.8 0 0 44.6 493.	539. 0 0 2143. 17496.
DISSOLVED CASES			
CAREON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) BARIUM MANGANESE	(FE) (EA)+2 (MN)	NOT RUN	2 . 7 . 8 7

SCALING INDEX TEME

> 3 0 C 8 6 F . 355 LIKELY

CALCIUM CARBONATE SCALING

SULFATE INDEX
CALCIUM SULFATE SCALING

CAREONATE INDEX

-.10 UNLIKELY

# 601 NORTH LEECH

F.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY: DEPCO
DATE: 3-24-82
FJELD, LEASESWELL: N.W.A.U. 50% FRESH/50% FRODUCED
SAMPLING FOINT:
DATE SAMPLED: 3-19-82

EPECIFIC CRAVITY = 1.014
TOTAL DISSOLVED SOLIDS = 21580
PH = 7.025

		ME/L	MG/L
CATIONS			
CALCIUM MAGNESIUM SODIUM	(CA) + 2 (MG) + 2 (NA) , CALC.	68.4 66.0 240.	1371. 806. 5538.
ANIONS			
EICARRONATE CARBONATE HYDROYIDE SULFATE CHLGRIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	6.9 0 0 30.1 336.	421. 0 0 1446. 11997.
DISSOLVED GASE	<b>S</b>		
CARRON DIOXIDE HYDROGEN SULFIDE DXYCEN	(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) BARIUM MANGANESE	(FE) (EA)+2 (MN)	NOT RUK	2 . 2 . 1 5

SCALING INDEX

TEMF

30C 8 6 F

CARBONATE INDEX
CALCIUM CARBONATE SCALING

. 324 LIKĒĪY

SULFATE INDEX CALCIUM SULFATE SCALING

-.50 UNLIKELY

# 601 NORTH LEECH

F.O.EOX1499

ME/L

MG/L

HOBES. NEW MEXICO 88240

COMPANY: DEPCO DATE: 3+24-62 FIELD.LEASESWELL: N.W.A.U. 75% FRESH/25% PRODUCED SAMPLING POINT: DATE SAMPLED: 3-19-82

SPECIFIC GRAVITY = 1.007 TOTAL DISSOLVED SOLIDS = 11741 PH = 7.1625

		7.0.1.2
(CA)+2 (MC)+2 (NA),CALC.	35.9 35.7 132.	720. 436. 3036.
(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	4 . 9 0 15 . 5 163 .	302. 0 0 747. 6798.
S		
(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN	
(FE) (BA) + Z (MN)	иия тои	1 . 7 . 2 2
	(MC) + 2 (NA), CALC. (HCO3) - 1 (CO3) - 2 (OH) - 1 (SO4) - 2 (CL) - 1 S (CO2) (H2S) (O2) (FE) (BA) + 2	(MC) + 2 (NA) , CALC. 132. (HCO3) - 1 (CO3) - 2 (OH) - 1 (SO4) - 2 (CL) - 1 S (CO7) (H2S)

SCALING INDEX

TEMP

3 0 C 8 & F . 253

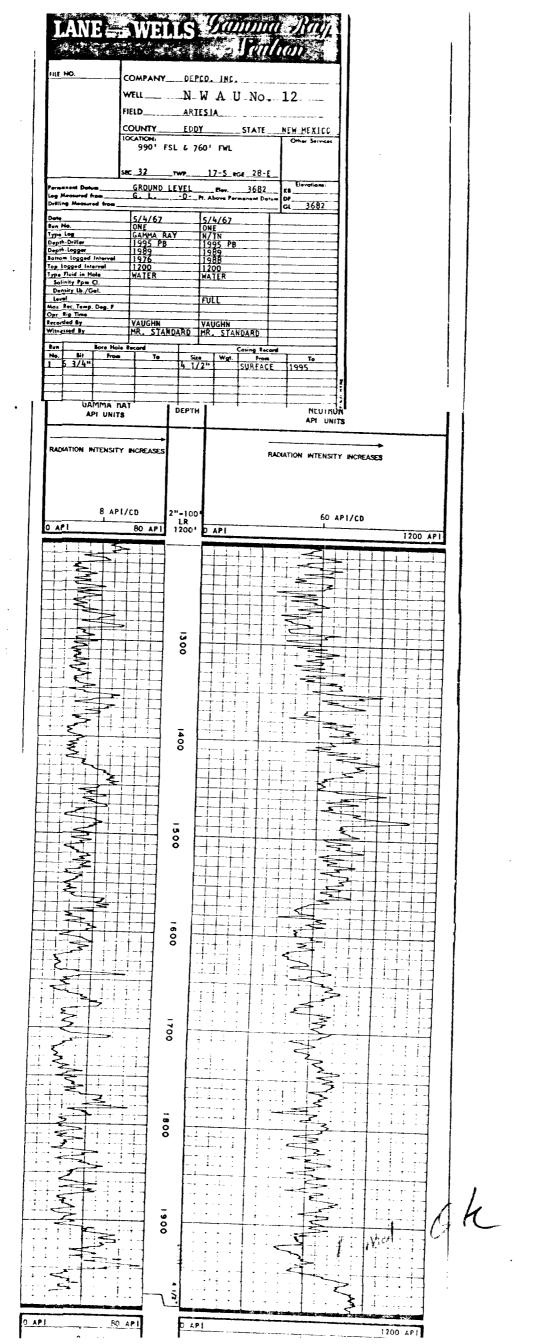
CARBONATE INDEX CALCIUM CAREONATE SCALING

LIKELY

SULFATE INDEX CALCIUM SULFATE SCALING

-1.3 UNLIKELY

ATTACHMENT
SECTION X



NO. OF COPIES RECEIVED 3			Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO OIL CON	SERVATION COMMISSION	Effective 1-1-65
FILE /			
U.S.G.S.			5a. Indicate Type of Lease
LAND OFFICE			State X Fee.
OPERATOR /-			5. State Oil & Gas Lease No.
			647
SUNDR	Y NOTICES AND REPORTS ON SPOSALS TO DRILL OR TO DEEPEN OR PLUG ION FOR PERMIT -" (FORM C-101) FOR SU	WELLS BACK TO A DIFFERENT RESERVOIR.	
1.			7. Unit Agreement Name
OIL X GAS WELL	OTHER.		_
2. Name of Operator			8, Farm or Lease Name
DEPCO, Inc.			State 647
3. Address of Operator			9. Well No.
			220
Juite 204, First Nation of Well	onal Bank Bldg., Artesi	a. New Mexico 88210	10. Field and Pool, or Wildcat
UNIT LETTER	990 FEET FROM THE SOUTH	LINE AND 760 FEET FROM	Artesla
1			
THE West LINE, SECTION	on32 township17	S RANGE 28E NMPM	
mmmmmm	(0)	DE DE CO	
	15. Elevation (Show whether	r DF, KI, GK, etc.)	12, County
ÖHHIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	3682 GL		Eddy ////////
Check A	Appropriate Box To Indicate 1	Nature of Notice, Report or Ot	ther Data
	ITENTION TO:		T REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	
	L	OTHER	
OTHER			
17. Describe Proposed or Completed Op work) SEE RULE 1103.	erations (Clearly state all pertinent de	tails, and give pertinent dates, includin	g estimated date of starting any proposed
·			
4-30-67 - Set 8 5/8"	24 # casing at 495 and	d cemented with 100 sx.	of 50-50 Incor-Pozmix
with 2% ge	1. 2% CaCl <sub>2</sub> 6% salt per	r sx.	av ye ye imeer yezmiy
-	-		
5-2-67 - T.D. 1997 (	GL. Set 4 1/2" J-55 11	.6# casing, with 150 sx.	Incor-Pozmix 4% gel.
8 1/2# salf	t per sx. 5% cacle. Bum	sed plug with 75 gal ace	tic acid.
	4, 4	, , , , , , , , , , , , , , , , , , , ,	
5-4-67 - Plug back 1	F.D. 1989. Ran Gamma Ra	y Neutron log. Perf. a	t 1922-23-24-25-27-28
1947-48 & 1	49.		The second secon
The second section of the second seco	and the second		
5-5-67 - Sand water	fraced with 40.000# sar	nd 36,300 gal. gelled wa	ter.
	•	se yeşye garı gerren ma	
It is inter	nded to recover load wat	er and notential test.	REGEINED
		cor and potential test.	- 7
			2: 1: 2
			18. Y 9 1957
			नहार कर कर के प्रस्तु
18. I hereby certify that the information	above is true and complete to the best	of my knowledge and belief.	
1 0-1	_ // /		
SIGNED DOOM	Mark	ingIncering Assistant	May 8, 1967
SIGNED STANDING	TITLE		DATE
_	,		
IN P Don	21	7.3	
APPROVED BY	TITLE		DATE TO STATE TO STATE OF THE S

	0							C-105
DISTRIBUTION								sed 1-1-65
SANTA FE	//_			EXICO OIL CO			l	ate Type of Lease
FILE	- 1/4	WEL	L COMPLE	TION OR REC	OMPLETION	REPORT AN	ND LOG State	Fee Dil & Gas Lease No.
U.S.G.S.	<del>- 17  </del>	$\dashv$					64,7	
OPERATOR	- 17 +				n =	CEIVE		mmmm
L-4	unis	7			re it			
la. TYPE OF WEL _		<del></del>	<del></del>				7. Unit A	greement Name
<b>'</b>		WELL	GAS WELL	DRY	OTHER	1 / 1 / 198	7	
b. TYPE OF COMPLE							8. Farm o	or Lease Name
WELL X OVE	```	DEEPEN	PLUG BACK	RESVR.	OTHER	7. 21. 10. 1. 17.0	Sta	ite 647
2. Name of Operator						1 U T C	1	
3. Address of Operator	nc.	<del></del>					270	and Pool, or Wildcat
			and Book	Astaaln	Blow a Straw Law	~	Arto	
Suite 26	4. F155	Charle	onal bank	ATTESTE.	REN HEXIC	,,,	Till -	
UNIT LETTER H	LOCATED	500	FEET FR	OM THE SOUL	LINE AND	760	EET FROM	
						THIKIN	12. Count	Millilli
THE LEST LINE OF	sec. 32	TWP.	17 PGE	. 23 NMP		IIIXIIII	Eddy	
i	ł .		1		1		KB, RT, GR, etc.) 1	9. Elev. Cashinghead
20. Total Depth	21	•67 Plug Bar	<b>5-</b> 5	22 If Multi-	ale Compl. How	662 GL	Potary Tools	3679 GL Cable Tools
1998 GL	21		Es GL	Many	ne Compi., now	Drilled F	Rotary Tools  y  //99864	Caple Tools
24. Froducing Interval(s	), of this co			, Name			7 177864	25. Was Directional Survey
								Made
Grayburg								No
25. Type Electric and O		un					27,	Was Well Cored
Garana Par	y theatre	on Long	\$	·				He
28.	<del></del>		<del></del>	ING RECORD (Re	port all strings :	set in well)		
CASING SIZE		LB./FT.			LESIZE		TING RECORD	AMOUNT PULLED
8 5/8		24	495		11	100	sx.	None
							sx.	<del></del>
8 5/8		24	495		11	100	sx.	None
8 5/8		24 11.6	495		11	100	sx.	Hone Hone
E 1/3		LINER	1955 1955		11	30. size	TUBING RE	Hone Hone
E 1/8 4 1/2 29.		LINER	l l l l l l l l l l l l l l l l l l l		7 7/8	100 :	SX. SX. TUBING RE	Hone Hone
29. SIZE	ТОР	24 11.6	R RECORD BOTTOM		7 7/8 SCREEN	30. SIZE 2 3/8	TUBING REDEPTH SET	Hone Hone ECORD PACKER SET
29. SIZE  31. Perforation Record (	TOP	LINER	R RECORD BOTTOM	SACKS CEMENT	7 7/8   SCREEN   32. A	30. SIZE 2 3/8	TUBING REDEPTH SET	Hone Hone  Hone  PACKER SET  SQUEEZE, ETC.
29. SIZE  31. Perforation Record (	TOP	LINER	R RECORD BOTTOM		32. A	30. SIZE 2 3/3 CID, SHOT, FRA	TUBING REDEPTH SET	Hone Hone  Hone  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED
29. SIZE  31. Perforation Record (	TOP	LINER	R RECORD BOTTOM	SACKS CEMENT	7 7/8   SCREEN   32. A	30. SIZE 2 3/3 CID, SHOT, FRA	TUBING REDEPTH SET	Hone Hone  Hone  PACKER SET  SQUEEZE, ETC.
29. SIZE  31. Perforation Record (	TOP	LINER	R RECORD BOTTOM	SACKS CEMENT	32. A	30. SIZE 2 3/3 CID, SHOT, FRA	TUBING REDEPTH SET	Hone Hone  Hone  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED
E 1/8 4 1/2  29.  SIZE  31. Perforation Record (  Perf. iit	TOP	LINER	R RECORD BOTTOM	SACKS CEMENT	32. A DEPTHI	30. SIZE 2 3/3 CID, SHOT, FRA	TUBING REDEPTH SET	Hone Hone  Hone  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED
E 1/8 4 1/2  29.  SIZE  31. Perforation Record (  Perf. ist	TOP Interval, siz	LINER  e and num  3.24,2	R RECORD BOTTOM  Sher)	SACKS CEMENT	32. A DEPTH II 1922-1	30. SIZE 2 3/8 CID, SHOT, FRANTERVAL	TUBING REDEPTH SET  1912  ACTURE, CEMENT SAMOUNT AND SAMOUNT AND SAMOUNT AND SAMOUNT SEE	Hone Hone  Hone  Flore  Flore  Flore  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad 6 36, 300 Gel.
29.  SIZE  31. Perforation Record (  Parf. ist  33.  Date First Production	TOP Interval, siz	LINER e and num 3.24.2	R RECORD BOTTOM  ber)  Method (Flow	SACKS CEMENT	32. A DEPTH II 1922-1	30. SIZE 2 3/8 CID, SHOT, FRANTERVAL	TUBING REDEPTH SET  1912  ACTURE, CEMENT SAMOUNT AND SAMOUNT AND SAMOUNT AND SAMOUNT SEE	Hone Hone Hone  Flore
E 1/8 4 1/2  29.  SIZE  31. Perforation Record (  Perf. ist	TOP Interval, siz	LINER e and num 3.24,3	R RECORD BOTTOM  ber)  Method (Flow	PRODuing, gas lift, pum	32. A DEPTH II 1922-1	30. SIZE 2 3/8 CID, SHOT, FRANTERVAL	TUBING RE DEPTH SET 1912  ACTURE, CEMENT S AMOUNT AND SES	Hone Hone Hone  Flore
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-67	TOP Interval, siz	LINER e and num 3.24,3	R RECORD BOTTOM  aber)  Method (Flow	PROI	SCREEN  32. A DEPTH II 1922-! DUCTION ping - Size and	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump)	TUBING REDEPTH SET  DEPTH SET  1912  ACTURE, CEMENT SET  AMOUNT AND MELLER  Well Sto	PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  14 6 36,300 (21).
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-67  Date of Test	TOP  Interval, siz 13??2	LINER e and num 3.24,3	R RECORD BOTTOM  aber)  Method (Flow	PROLING, gas lift, pum  Prod'n. For Test Period  Oil — Bbl.	SCREEN  32. A DEPTH II 1922-! DUCTION ping - Size and	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump) Gas - MCF Wate	TUBING REDEPTH SET  DEPTH SET  1912  ACTURE, CEMENT SAMOUNT AND SA	FLORE  FLORE  FLORE  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad & 36,300 Col.  Stus (Prod. or Shut-in)  Gas—Oil Ratio  Dil Gravity — API (Corr.)
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-67  Date of Test  5-13-67  Flow Tubing Press.	TOP Interval, siz	LINER LINER  e and num  3.74,2	R RECORD BOTTOM  Aber)  Method (Flow Choke Size  Calculated 24- Hour Rate	PROIDING, gas lift, pum	32. A DEPTH II 1922-! DUCTION ping - Size and OII - Bbl. 52	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump) Gas - MCF Wate	TUBING RE DEPTH SET 1912  ACTURE, CEMENT S AMOUNT AND S ANOUNT AND S ANOTHER S	Hone Hone  Hone  Hone  Hone  Flore  F
29.  SIZE  31. Perforation Record (  Perf. iit  33.  Date First Production  5-5-57  Date of Test  5-13-6;  Flow Tubing Press.  34. Disposition of Gas (	TOP Interval, siz	LINER LINER  e and num  3.74,2	R RECORD BOTTOM  Aber)  Method (Flow Choke Size  Calculated 24- Hour Rate	PROLING, gas lift, pum  Prod'n. For Test Period  Oil — Bbl.	32. A DEPTH II 1922-! DUCTION ping - Size and OII - Bbl. 52	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump) Gas - MCF Wate	TUBING RE DEPTH SET 1912  ACTURE, CEMENT S AMOUNT AND MANUAL AND M	Hone Hone Hone  FLORD  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad 6 36, 30 J Gel.  Ritus (Prod. or Shut-in)  Gas—Oil Ratio  Dil Gravity — API (Corr.)  35
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Productior  5-5-57  Date of Test  5-13-67  Flow Tubing Press.  34. Disposition of Gas (	TOP Interval, siz	LINER LINER  e and num  3.74,2	R RECORD BOTTOM  Aber)  Method (Flow Choke Size  Calculated 24- Hour Rate	PROLING, gas lift, pum  Prod'n. For Test Period  Oil — Bbl.	32. A DEPTH II 1922-! DUCTION ping - Size and OII - Bbl. 52	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump) Gas - MCF Wate	TUBING RE DEPTH SET 1912  ACTURE, CEMENT S AMOUNT AND MANUAL AND M	Hone Hone  Hone  Hone  Hone  Flore  F
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-57  Date of Test  5-13-67  Flow Tubing Press.  34. Disposition of Gas ( 5-14  35. List of Attachments	TOP  Interval, siz  1377.2  Hours Test  24  Casing Pre	LINER LINER e and num 3.24,2	R RECORD BOTTOM  There  Method (Flow Choke Size  Calculated 24- Hour Rate  Inted, etc.)	PROFINE PERIOD  Prod'n. For Test Period  Oil — Bbl.  52	32. A DEPTH II 1922-! DUCTION ping - Size and OII - Bbl. 52	30. SIZE 2 3/3 CID, SHOT, FRANTERVAL 39 type pump) Gas - MCF Wate	TUBING RE DEPTH SET 1912  ACTURE, CEMENT S AMOUNT AND MANUAL AND M	Hone Hone Hone  FLORD  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad 6 36, 30 J Gel.  Ritus (Prod. or Shut-in)  Gas—Oil Ratio  Dil Gravity — API (Corr.)  35
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-57  Date of Test  5-13-67  Flow Tubing Press.  34. Disposition of Gas ( 5-14  35. List of Attachments	TOP  Interval, siz  1372, 2  Hours Test  Casing Press  Sold, used f	LINER LINER  e and num  3.74,2	R RECORD BOTTOM  Sher)  Method (Flow Choke Size  Calculated 24- Hour Rate  Inted, etc.)	PROFINE PROFILE PROFIL	32. A DEPTH II 1922-! DUCTION ping - Size and Off - Bbl. 52 Gas - MC	30.   SIZE   2 3/8     CID, SHOT, FR.     NTERVAL       Size       Wate       22	TUBING REDEPTH SET  DEPTH SET  1912  ACTURE, CEMENT SAMOUNT AND PROCESSES  Water  Well Starter  Water — Bbl.  22 Load  Test Witnesses  Kamputli	Hone Hone Hone  Hone  Hone  Hone  RIGHT SET  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad 6 36, 300 Gell.  Gas—Oil Ratio  Dil Gravity — API (Corr.)  35  By Right Galle
29.  SIZE  31. Perforation Record (  Perf. ist  33.  Date First Production  5-5-57  Date of Test  5-13-67  Flow Tubing Press.  34. Disposition of Gas (  5-14  35. List of Attachments  Period 16	TOP  Interval, siz  1372, 2  Hours Test  Casing Press  Sold, used f	LINER LINER  e and num  3.74,2	R RECORD BOTTOM  Sher)  Method (Flow Choke Size  Calculated 24- Hour Rate  Inted, etc.)	PROD ing, gas lift, pum  Prod'n. For Test Period Oil — Bbl. 52	SCREEN  32. A DEPTH II 1922-1  DUCTION ping = Size and Off - Bbl. 52 Gas - MC	30.   SIZE   2 3/8     CID, SHOT, FR.     NTERVAL       Size       Wate       22	TUBING REDEPTH SET  DEPTH SET  1912  ACTURE, CEMENT SAMOUNT AND SERVET  Well Star  Proceuter  Water — Bbl.  22 Load  Test Witnessee  Kettill	Hone Hone Hone  Hone  Hone  Hone  RIGHT SET  PACKER SET  SQUEEZE, ETC.  KIND MATERIAL USED  Ad 6 36, 300 Gell.  Gas—Oil Ratio  Dil Gravity — API (Corr.)  35  By Right Galle

### **INSTRUCTIONS**

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

# INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

### Southeastern New Mexico

### Northwestern New Mexico

T.	Anhy	T.	Canyon	T.	Ojo Alamo	T.	Penn. "B"
			Strawn				
B.	Salt	T.	Atoka	T.	Pictured Cliffs	T.	Penn. "D"
T.	Yates	T.	Miss	T.	Cliff House	T.	Leadville
T.	7 Rivers	Ţ,	Devonian	T.	Menefee	T.	Madison
T.	Queen 1164	T.	Silurian	T.	Point Lookout	T.	Elbert
T.	Grayburg 1625	T.	Montoya	T.	Mancos	T.	McCracken
T.	San Andres	T.	Simpson	T.	Gallup	T.	Ignacio Qtzte
T.							Granite
T.			Ellenburger				i i
T.	Blinebry	т.	Gr. Wash	T.	Morrison	T.	
T.	Tubb	т.	Granite	T.	Todilto	T.	
T.	Drinkard	T.	Delaware Sand	T.	Entrada	T.	-
T.	Abo	Т.	Bone Springs	T.	Wingate	T.	
T.	Wolfcamp	T.		T.	Chinle	T.	
т.	Penn.	Т.	Andrew Control of the	Τ.	Permian	T.	
T	Cisco (Bough C)	T.		T.	Penn. "A"	T.	

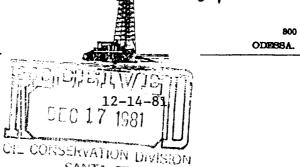
# FORMATION RECORD (Attach additional sheets if necessary)

From	то	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
250 454 763 1220 1663 1930	250 496 763 1220 1668 1539 7598	269 457	Anhy. Sand Anhy. Sand Anhy! Anhy. A Line & Colo. Line				
					And the state of t		

ATTACHMENT
SECTION XIII

A T T A C H M E N T
S E C T I O N XIII

Exploration & Production



SANTA FE

800 Central ODESSA. TEXAS 79760

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, A. M. hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

For_	
	an OI
вч	JB. adamson
<b>-</b> .	12-15-01
Date	12-15-81

# Exploration & Production



Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, ARCO Oil & Gas Company hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

For		
,	I hveel	
BY	& Rules	
Date_	January 7, 1982	

# Exploration & Production



800 Central ODESSA. TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

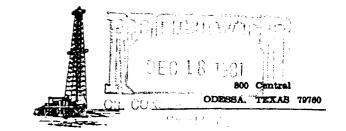
As an offset operator, hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

BY W5-Jeffer
Date Sec 27-81

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OIL CONSERVATION DIVISION
SANTA FF

# Exploration & Production



12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, <u>fill the Contemp</u> hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

BY (2 16-81)

800 Central ODESSA. TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, Froduction of hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

For By I Froduction

Date 1-44-92

# Exploration & Production



800 Central ODESSA. TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

any objection to the conversion and	injection of water into DEPCO, Inc. he Grayburg formation as requested in the Northwest Artesia Unit.
	For American Petrofina
	BY Ronald F. Smilly
	Date 12 12-81

# Exploration & Production



800 Central ODESSA, TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe. New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, Kersey & G. hereby waivers any objection to the conversion and injection of water into DEPCO, Inc.

Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

For Kersey & G.

BY Hawke Kersey

Date 12/16/8/

# Exploration & Production



800 Central ODESSA, TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:

As an offset operator, MARROA WERGY GER hereby waivers any objection to the conversion and injection of water into DEPCO, Inc. Northwest Artesia Unit No. 12 in the Grayburg formation as requested in their application for expansion of the Northwest Artesia Unit.

BY CARLY CORD.

Date 12-16-81

on reverse.	Add your address in the "RETURN TO" space on reverse.
On reverse.  (CONSULT POSTMASTER FOR FEES)  1. The following service is requested (check one).	(CONSULT POSTMASTER FOR FEES)
1. The following act the delivered	1. The following service is requested (check one).  Show to whom and date delivered
Show to whom, date, and address	Show to whom, date, and address of delivery.
2. RESTRICTED DELIVERY fee is charged in addition to	2. RESTRICTED DELIVERY  (The restricted delivery fee is charged in addition to
the return receipt fee.)	the return receipt fee.)
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and the second of the second o	
SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO":	space SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space
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Show to whom and date delivered	Show to whom and date delivered
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(The restricted delivery fee is charged in addition to	The restricted delinery fee is charmed in addition to
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X ARTICLE ADDRESSED TO:  KERSEY AND COMPANY 808 W. GRAND AVENUE ARTESTA. NEW MEXICO 88210	ARCO OIL & GAS COMPANY BOX 1710 HOBBS, NM 88240
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800 Central ODESSA. TEXAS 79760

# Exploration & Production

# LEGAL NOTICE

By this notice, DEPCO, Inc., 800 Central, Odessa, Texas 79761, (915) 337-1536 (Leon Standard) announces its intent to convert Northwest Artesia Unit No. 12 (32-17s-28e) to water injection in the Grayburg formation within the interval 1922' to 1949'. Expected maximum injection rates and surface pressure are 200 BWPD and 1250 psig. Interested parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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900 Central ODESSA, TEXAS 79760

# LEGAL NOTICE

By this notice, DEPCO, Inc., 800 Central, Odessa, Texas 79761, (915) 337-1536 (Leon Standard) announces its intent to convert Northwest Artesia Unit No. 12 (32-17s-28e) to water injection in the Grayburg formation within the interval 1922' to 1949'. Expected maximum injection rates and surface pressure are 200 BWPD and 1250 psig. Interested parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

# Exploration & Production



Energy and Minerals Department Oil Conservation Division Bcx 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Re: DEPCO, Inc.

Northwest Artesia Unit Waterflood Expansion

## Gentleman:

DEPCO, Inc. is asking the Commission to approve administratively the application to convert one additional well (No. 12) to water injection in the Northwest Artesia Unit Flood. The conversion of this well is due to the high water cut, and to have a more efficent sweep in this area of the flood. Latest test show this well making a trace of oil and 40 to 50 BWPD. The Northwest Artesia Unit was approved by commission order No. R-4727 on February 21, 1974.

Injection will be into the Grayburg at approximate depth of 1900 feet. The water will be injected at approximately 200 barrels of water per day. The injection fluid will consist of fresh water, obtained from a system owned by the city of Carlsbad, and produced water from the lease.

The location of this well is marked in red on the attached plat. This plat shows the location of the present injection wells and offset operators. This well is located in Unit M of Section 32, Township 17 South, Range 28 East, Eddy County, New Mexico.

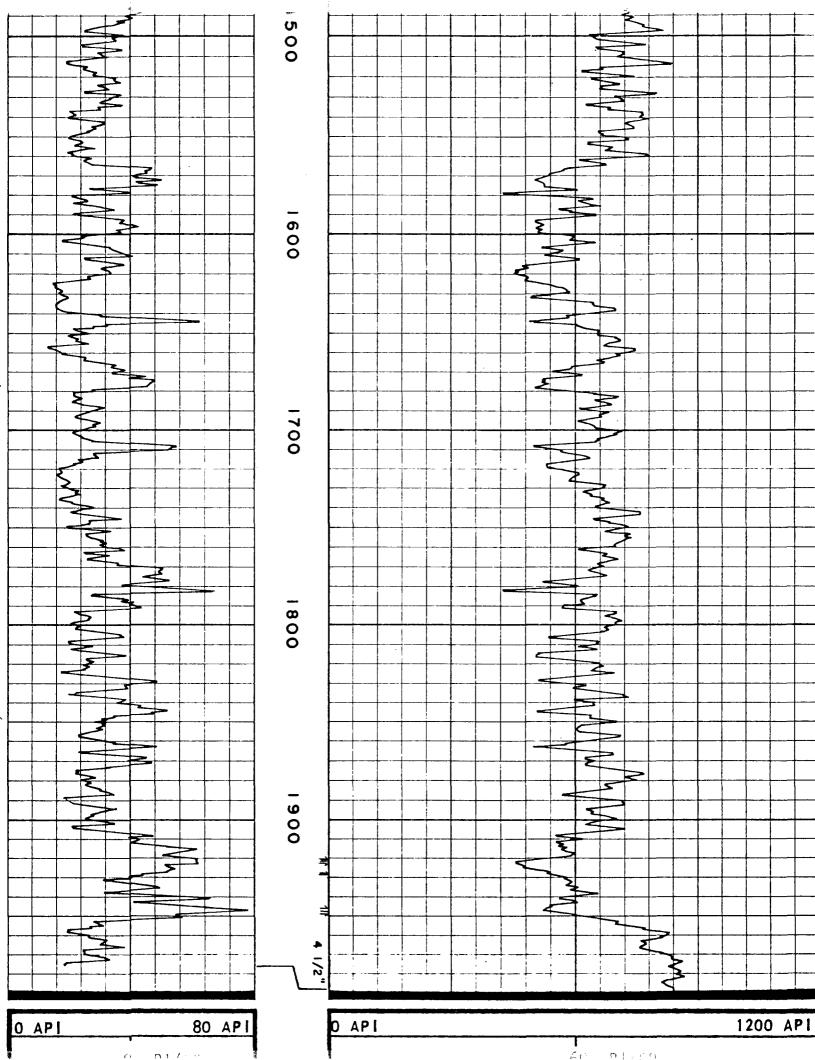
Attached please find copies of a log over the Grayburg, and a diagrammatic sketch of the proposed injection well, and a waiver sent to offset operators.

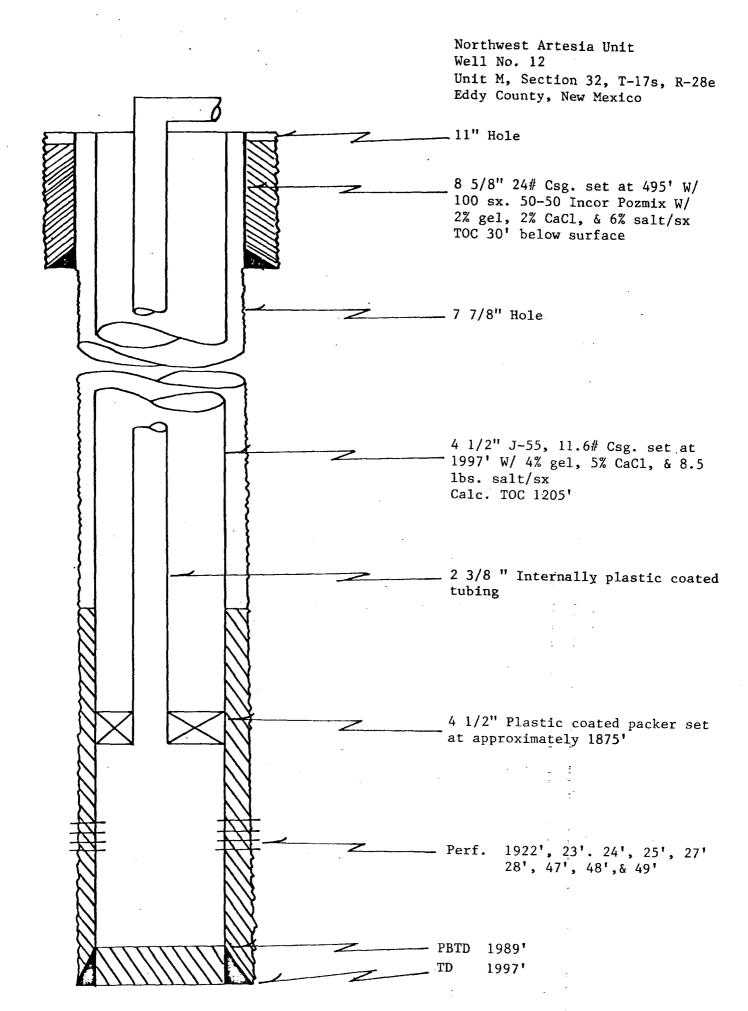
915-337-1536

Very truly yours

DEPCO, Inc. Leon Standard Field Engineer

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE





# Exploration & Production



800 Central ODESSA, TEXAS 79760

12-14-81

J. B. Adamson
American Petrofina Co. of Texas
ARCO
B & J Production Co.
Baber Well Servicing Co.
W. E. Jeffers
Kersey and Company
Marbob Energy Corp.

Box 727, Artesia, New Mexico 88210
Box 1311, Big Spring, Texas 79720
Box 1710, Hobbs, New Mexico 88240
512 W. Texas, Artesia, New Mexico 88210
Box 1772, Hobbs, New Mexico 88240
Box 65, Artesia, New Mexico 88210
808 W. Grand Ave. Artesia, New Meixco 88210
Box 304, Artesia, New Mexico 88210

RE: DEPCO, Inc.
Northwest Artesia Unit
Artesia Field
Eddy County, New Mexico

### Gentlemen:

DEPCO, Inc. is asking the Commission to approve administratively the application to convert one additional well to water injection in the Northwest Artesia Unit Flood. This well is NorthwestArtesia Unit No. 12. Injection will be into the Grayburg formation at an approximate depth to 1900 feet.

A copy of the application is attached, DEPCO would appreciate your waiver of objection to this application. Three copies of a waiver letter are attached. Please sign, one to the commission and return one copy to DEPCO.

Very truly your,

DEPCO, INC. Leon Standard Field Engineer

LS/vp

# Exploration & Production



800 Central ODESSA. TEXAS 79760

12-14-81

Energy and Minerals Department Oil Conservation Division Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Oscar Simpson

Gentlemen:	
-	hereby waivers injection of water into DEPCO, Inc. he Grayburg formation as requested in the Northwest Artesia Unit.
	For
	ВУ
	Date

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE