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20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260 8/9/86

Telephone 405/235-3611 FAX 405/552-4550

July 22, 1996

Certified Mail No. Z 737 086 290

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Santa Fe, NM 88505

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RE: West Red Lake Unit #8 Section 7-T18S-R27E Eddy County, New Mexico

Gentlemen:

Concerning the referenced, enclosed please find our Application for Authorization to Inject and one copy of same. A copy of this submittal is being sent to the OCD office in Artesia.

Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 235-3611, X4509.

Yours truly,

**DEVON ENERGY CORPORATION (NEVADA)** 

Candace R. Draham

Ms. Candace R. Graham Engineering Tech

/cg

**Enclosures** 

copy: NMOCD, Artesia

EB, File

of the early r submittal.

#### OIL CONSERVATION DIVISION

POST OFFICE BOX 2088

BTATE LAND DIFFICE BUILDING
BANTA FE, NEW MEXICO 87501

FORM C-108 Revised 7-1-81

Ι.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
	Application qualifies for administrative approval? $igthered{\mathbb{X}}$ yes $igcap$ no
II.	Operator: Devon Energy Corporation (Nevada)
	Address: 20 N. Broadway, Suite 1500, OKC, OK 73102-8260
	Contact party: E.L. Buttross, Jr. Phone: (405) 235-3611 X4509
111.	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.  Refer to Attachment III
IV.	Is this an expansion of an existing project? X yes no R-3469  If yes, give the Division order number authorizing the project
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.  Refer to Attachment V
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.  Refer to Attachment VI
VII.	Attach data on the proposed operation, including: Refer to Attachment VII  1. Proposed average and maximum daily rate and volume of fluids to be injected;
	<ol> <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</li> </ol>
	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.  Refer to Attachment VIII
IX.	Describe the proposed stimulation program, if any. Acidize perfs w/5000 gals 15% acid
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Filed at the time of drlg (in 1957) as Malco RefineriesGant Federal #1.
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.	There are no fresh water wells in the Applicants for disposal wells must make an affirmative statement that they have are 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.
111.	Refer to Attachment XII Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Refer to Attachment XIII  Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: E.L. Buttross, Jr Title District Engineer
	Signature: S.J.R. Wish Jr., Date: July 12, 1996

DISTRIBUTION: Original and one conv to Santa to with one conv to the appropriate division

#### 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

XIII

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.

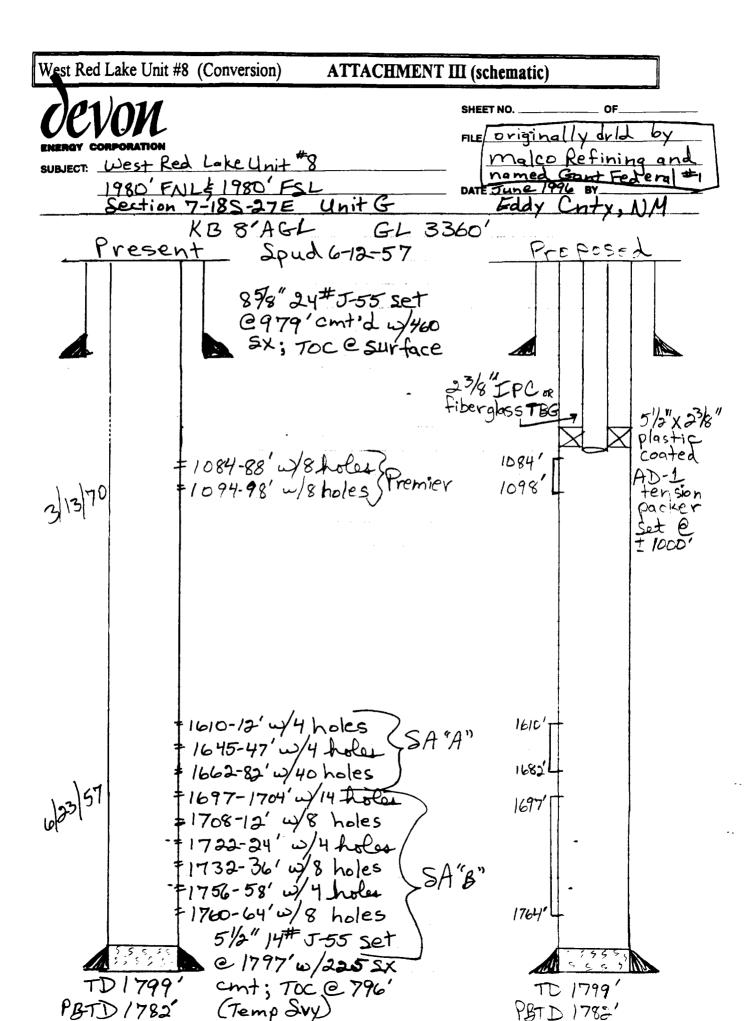
#### **WELL DATA**

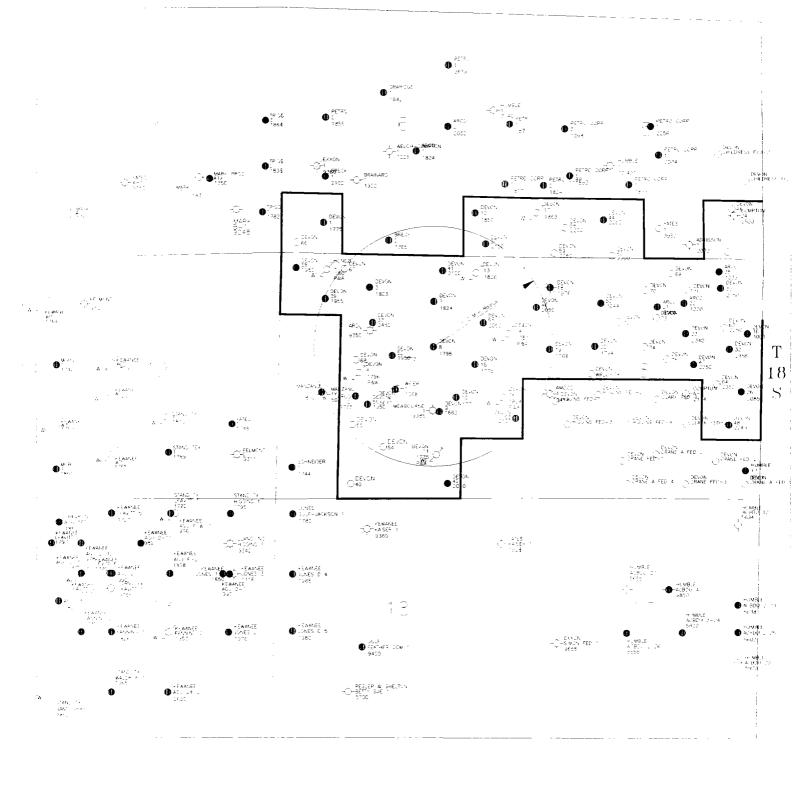
- A. (1) West Red Lake Unit #8
  Section G-7-T18S-R27E
  1980' FNL & 1980' FEL
  Eddy County, New Mexico
  - (2) Please refer to the wellbore schematic labeled Attachment III-(schematic). Cement was circulated back to surface on the surface string. Top of cement on the production string is 790' determined by Temperature Survey.
  - (3) We will be using 2 3/8" fiberglass or internally coated tubing. The tubing will be set at 1000' ( $\pm$ ).
  - (4) We will use a 5 1/2" x 2 3/8" plastic coated AD-1 tension packer to be set at 1000'±.
- B. (1) The injection formation will be the Grayburg-San Andres in the Red Lake (Q-GB-SA) Field.
  - (2) The injection intervals will be through existing perforations as follows:

Premier at 1084-1098'
San Andres "A" at 1610-1682'
San Andres "B" at 1697-1764'.

- (3) This well was originally drilled as a Grayburg-San Andres oil well.
- (4) Please refer to the wellbore schematic labeled Attachment III (schematic).
- (5) There are no lower oil or gas zones in the area of this well.

REDLAKE DEB/SA





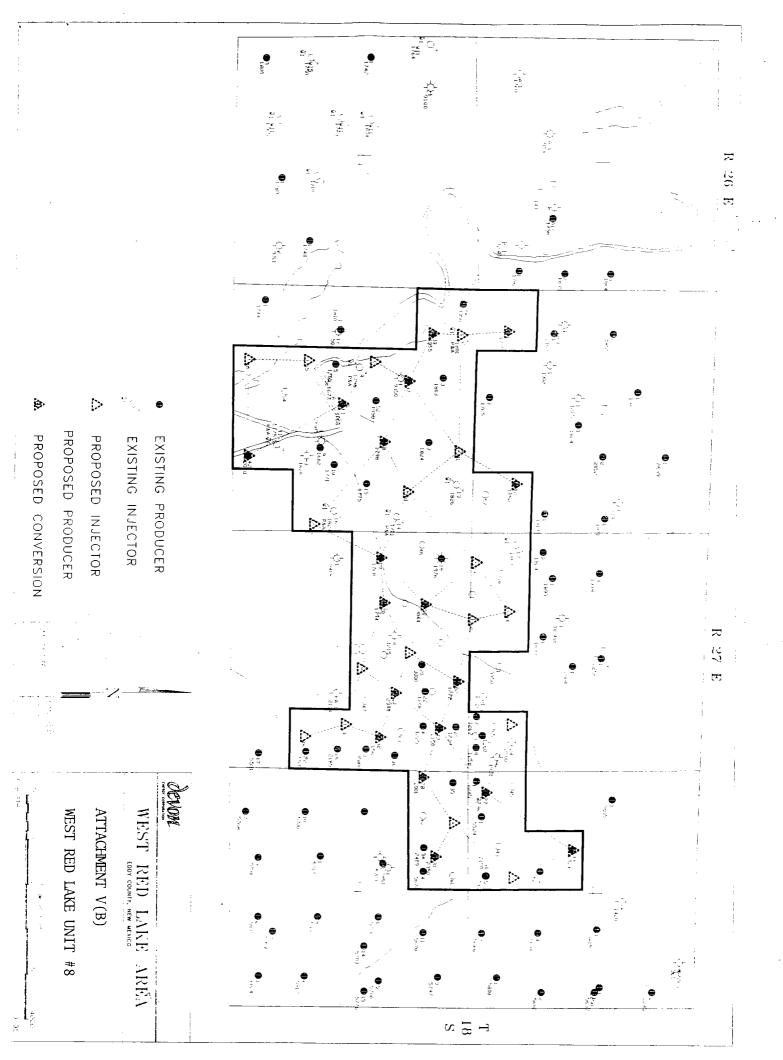
WEST RED LAKE AREA

EDDY COUNTY, NEW MEXICO

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ATTACHMENT V

WEST RED LAKE UNIT 8



1034-1047	(sqzd after testing)										
876-1670' он 1602-1622' 1642-1674'	Surface Surface	210	876' 1750'	20 9.5	7" 4 1/2"	OIL	1932 01-02-59 03-18-70	1932	TD 1670' TD 1770' PB 1710'	2310' FSL & 1650' FEL Sec. I-7-T18S-R27E	West Red Lake Unit #10 (Devon)
1151-1662' он 1615-76'	Surface 398' (calculated)	160 80	836° 1151° 1737°	28 20	8 5/8" 7" 4"	OIL	03-16-48 04-18-57		TD 1759'	Sec. J-7-T18S-R27E	(Devon)
1084-1098	Surface	5	107	40	10,"		03-13-70	12-22-47	TD 1662'	2310, ESI % 2026, EEI	West Red Lake Unit #9
1610-1764'	Surface 796' (Temp Svv)	460 225	979° 1797°	24 14	8 5/8" 5 1/2"	OIL	06-24-57	06-12-57	TD 1799' PB 1782'	1980' FNL & 1980' FEL Sec. G-7-T18S-R27E	West Red Lake Unit #8 (Devon)
1690-1784' 1103-1115'	260' (Temp Svy) 1262' (calculated)	292 75	928 <sup>7</sup> 1824 <sup>7</sup>	20 9.5	7" 4 1/2"	OIL	09-24-58 03-20-70	07-30-58	PB 1821'	1980' FSL & 990' FWL Sec. B-7-T18S-R27E	West Rcd Lake ∪nit #7 (Devon)
1740-1754							02-29-92				
1688-1691' 998-1007'	1450' (Temp Svy)	135	1776'	9.5	4 1/2"		02-22-57 03-09-70		TD 1776' PB 1771'		
1582-92° OH 1640-58° OH	490' (Calc)	100	1105		-	OIL	05-2/-48			Sec. K-/-1185-R2/E	(Devon)
1500 000 011	Surface	50	163		9 5/8"			1948	TD 1677'	2460' FSL & 2580' FWL	West Red Lake Unit #6
123' to surf	pulled for P&A										
all perts sqzd	sqzd 4 1/2" csg then shot off at 80' &					P&A	12-17-70				
pf'd 1000-06'	630' (Temp Svy	105	1765'		4 1/2"	OIL	08-17-57			Sec. K-7-T18S-R27E	(Devon)
cored 985-1035'	Surface	175	879'		7"			07-29-57	TD 1765	2280' FSL & 1710' FWL	West Rcd Lake Unit #5
at 340-341	w/cmt to P&A										
perfs to P&A	902', 1497', 1703'										
all perfs sqzd	cmt retainers at					P&A	03-19-80	·			
1032-1036'	injection pkr 1080'					WIW	09-23-68				
1578-1676					<del></del>		-		-		
998-1017	300 (CDL 3/00)	0.7	1//4	1	2/1 C	Ę	12-01-57		101/0/	000: 1 = / = 1 100 = 102 / L	(Descen)
1734 1734	Surface	360 360	874	24	\$ 5/8"		12 10 57	06-24-57	TD 1796'	2310' FNL & 1650' FWL	West Red Lake Unit #4
1772-1784							02-22-92				
1042-1052							06-02-70				
1596-1709'	860' (Temp Svy)	225	1801'	14	5 1/2"	OIL	06-14-57		PB 1791'	Sec. C-7-T18S-R27E	(Devon)
	Ŋ	350	919,	- 1	8 5/8"			06-01-57	TD 1803'	660' FNL & 1980' FWL	West Red Lake Unit #3
PERFS	SX CMT TOC	SX CMT	SET	bs	CASING,	TYPE	DATE	DATE	PBTD	LOCATION	(Operator)
	TION BECOME	a lawe	2			u/ETI	Cal	Cirias	77	Edd. Cut. NM	WEII NAME

ATTACHMENT VI

Attachment VI Page 2

West Red Lake Unit #41 (Devon)	West Red Lake Unit #39 (Devon)	West Red Lake Unit #37 (Devon)	West Red Lake Unit #19 (Devon)	West Rcd Lake Unit #16 (Devon)	West Red Lake Unit #15 (Devon)	(Devon)	West Red Lake Unit #13 (Devon)	West Red Lake Unit #11 (Devon)	WELL NAME (Operator)
330' FNL & 1800' FEL Sec. B-7-T18S-R27E	990' FNL & 990' FWL Sec. D-7-T18S-R27E	1490' FNL & 2050' FWL Sec. F-7-T18S-R27E	1980' FNL & 660' FWL Sec. E-8-T18S-R27E	2240' FSL & 400' FEL Sec. I-7-T18S-R27E	2310' FNL & 990' FEL Sec. H-7-T18S-R27E	Sec. I-7-T18S-R27E	330' FSL & 990' FEL Sec. A-7-T18S-R27E	990' FSL & 1810' FEL Sec. O-7-T18S-R27E	Eddy Cnty, NM LOCATION
TD 2100' PB 2054'	TD 1955' PB 1889'	TD 2450' PB 2394'	TD 1768' PB 1767'	TD 1824	TD 1775' PB 1737'	PB 1747'	TD 1826' PB 1819'	TD 1775' PB 1760'	TD PBTD
10-20-95	01-14-95	08-26-93	07-07-57	06-17-57	10-17-62	11-52	04-57	12-04-57	SPUD DATE
11-09-95	03-25-95 06-11-95	01-21-94	07-18-57 12-05-57	07-30-57 09-23-68 03-17-80	12-15-62	06-10-57 06-10-57 09-27-68 03-14-80	04-10-57 09-27-68	12-18-57 03-05-70 03-18-80	CPLN DATE
OIL	OIL	OIL	OIL	OIL WIW P&A	OIL	OIL WIW P&A	OIL	OIL WIW P&A	WELL TYPE
8 5/8" 5 1/2"	8 5/8" 5 1/2"	8 5/8" 5 1/2"	8 5/8" 5 1/2"	8 5/8" 5 1/2"	4 1/2"	4 1/2"	7" 20# 4 1/2"	7" 4 1/2"	CASING,
24 15.5	24 15.5	24 15.5	24 14	24 14	9.5	9.5	& 23 9.5 & 11	20 9.5 & 10.5	lbs
971' 2100'	922' 1954'	889 <sup>°</sup> 2449 <sup>°</sup>	918' 1739'	925' 1820'	1760'	1751	1205' 1826'	863' 1772'	SET CO
500 425	500 350	625 435	325 225	300 225	530	80 80	200 120	225 115	MPLE;
Surface Surface	Surface Surface	Surface Surface	Surface 618' (Temp Svy)	Surface 430' injection pkr 1175' cmt retainers at 881' and 1511' filled 5 1/2" csg w/cmt to P&A	Surrace cored perf d	Surface 972' (CBL) cmt'd csg ann, TOC at surface injection pkr 1152' cmt retainers at 1496' and 961' filled 4 1/2" csg w/cmt to P&A	Surface 610' (Temp Svy) injection pkr 1071'	Surface 695' (Temp Svy) injection pkr 1089' cmt retainers at 1617' and 980' filled 4 1/2" csg w/cmt to P&A	COMPLETION RECORD  T SX CMT TOC
1526-1956'	1548-1808' 1358-1440'	1535-1750'	1615-1746' 1079-89'	1683-1774' 1090-1124' perfs to P&A at 493' all perfs sqzd	1040-89' 1044-1064' 1628-1720'	1057-1096' all perfs sqzd	1716-1760' 1129-1174'	1642-1737' 1038-1047' perfs to P&A at 724-725' all perfs sqzd	PERFS

Surface Surface Surface Surface 800' (Temp Svy) 990-1670' hole increased from N/A 11" to 8' at 150'; skidded rig; cmt'd hole and surface	skidded rig; cmt hole and surface				-						
3					•						
	hole incl				N/A	J&A	04-12-58	04-58	TD 150'	2390° FSL & 990° FWL Sec. L-7-T18S-R27E	Johnston #1 (Nearburg & Ingram)
1662-	Surface Surface 800' (Temp Svy)	50 590 225	50° 872° 1810°	24 14	18" 8 5/8" 5 1/2"	OIL	08-19-58	04-07-58	TD 1810'	2340' FSL & 990' FWL Sec. L-7-T18S-R27E	Johnston-Federal #1Y (Manzano)
1000	Surface 900'	300 125	917' 1765'	28 14	8 5/8" 5 1/2"	WIW	09-01-57 02-26-69	08-10-57	TD 1765' PB 1747'	330' FSL & 2290' FWL Sec. N-6-T18S-R27E	Paton-Federal #2 (Break Operating)
set cmt retainers at for P&A 8824', 8720', 5112' perf'd 8770- and spotted cmt 77', 5160-61', plugs + 30' cmt 2675-77', plug at surface 1950-52' all perfs sqzd	set cmt retainers 8824', 8720', 5; and spotted cmt plugs + 30' cmt plug at surface					r «A	03-30-80				
	Surface 87' (calculated) 4817' (calculate	700 810 850	890' 1900' 9350'		13 3/8" 8 5/8" 5 1/2"	Morrow GAS	07-02-75	05-20-75	TD 9350'	1650' FNL & 1980' FWL Sec. K-7-T18S-R27E	Stirling Com #1 (ARCO)
1529-1962	Surface Surface	500 425	999° 2149°	24 15.5	8 5/8" 5 1/2"	OIL	10-07-95	10-13-95	TD 2150' PB 2086'	280' FSL & 850' FEL Sec. P-6-T18S-R27E	West Red Lake Unit #57 (Devon)
1374-1807	Surface Surface Surface	551 500 340	201' 899' 1949'	48 24 15.5	13 3/8" 8 5/8" 5 1/2"	OIL	11-22-95	11-01-95	TD 1950' PB 1883'	2100' FSL & 1980' FWL Sec. K-7-T18S-R27E	West Red Lake Unit #56 (Devon)
1512-1913	Surface Surface	650 375	949' 2096'	24 15.5	8 5/8" 5 1/2"	OIL	10-20-95	10-02-95	TD 2100' PB 2019'	1780' FSL & 155' FEL Sec. I-7-T18S-R27E	West Red Lake Unit #53 (Devon)
1018-1818	60' Surface Surface	200 450 400	204' 915' 1949'	48 24 15.5	13 3/8" 8 5/8" 5 1/2"	OIL	04-15-95	01-21-95	TD 1950' PB 1873'	2200' FNL & 2500' FWL Sec. F-7-T18S-R27E	West Red Lake Unit #52 (Devon)
1498-1908	Surface Surface	675 425	964' 2049'	24 15.5	8 5/8" 5 1/2"	OIL	11-17-95	10-26-95	TD 2050' PB 1982'	1450' FNL & 890' FEL Sec. H-7-T18S-R27E	West Red Lake Unit #51 (Devon)
1662-1912 <sup>,</sup> 1498-1570 <sup>,</sup>	Surface Surface	550 350	1025' 2049'	24 15.5	8 5/8" 5 1/2"	OIL	03-12-95 08-06-95	02-04-95	TD 2050' PB 1954'	1090' FNL & 820' FWL Sec. D-8-T18S-R27E	West Red Lake Unit #46 (Devon)
CORD PERFS	COMPLETION RECORD SX CMT TOC	OMPLET SX CMT	$\frac{C}{SET}$	i, lbs	CASING,	WELL TYPE	CPLN DATE	SPUD DATE	TD PBTD	Eddy Cnty, NM LOCATION	WELL NAME (Operator)

9142-9251	7860' (Temp Svy) 9142-9251'	325	9385	4 1/2"	GAS	10-08-73				
	Surface	475	1971'	8 5/8"	Penn					
	Surface	540	900'	11 3/4"			-		Sec. J-7-T18S-R27E	(Mewbourne Oil)
	Surface	250	200'	16"			08-19-73	TD 9385'	1980' FSL & 1980' FEL	Peterson Com #1
	off 7" csg, at 547')									
	820' to surface (cut									
	spotted cmt plugs									
1240-1626'	550' (estimated)	50	1255	7"	D&A	12-22-48			Sec. J-7-T18S-R27E	(Weier Drilling)
	Surface	80	114'	9 5/8"			11-16-48	TD 1626'	1650' FSL & 1650' FEL	A.A. Kaiser #3
	plug at top	1								
	hole w/mud, cmt									
9 5/8" in hole	820' and 760', filled 9 5/8" in hole									
for P&A left	set cmt plugs at					04-18-48			Sec. K-/-118S-R27E	(Weier Drilling)
	190' 25 Surface	25	190'	9 5/8"	D&A		04-05-48	TD 1068' 04-05-48	2460' FSL & 2622' FWL	Gilbert #1
PERFS	TOC	SET SX CMT TOC	SET	CASING, lbs	TYPE	DATE	DATE	PBTD	LOCATION	(Operator)
	COMPLETION RECORD	)MPLE1	CC		WELL	CPLN	SPUD	ar	Eddy Cnty, NM	WELL NAME

Logs: GRA 7-6-57 Tempsuno 4-3 Inj Profile 4-2-69: CBL 3/1980

TempSurvey 4-3-69

Teatmil Byper 9-19-68

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# P&A 12/11/10

DATE 10/12/92

WIRLL #5 (Wies Dria Co. - Gilbret#2)

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LOS: CBL 3/17/80

Temp Enjectum profile 11/24/70

Temp Enjectum profile 11/24/70

SINONETON

GR/N 12-14-70 SHEET NO

DEVON ENGINEERING CHART

SUBJECT: WRLU#11 (Weie Drla - Kaiser#1)

1810 FEL = 990 FSL Section 7-7185-R27E GL 3292 7"20# @ 863' cm+ 22554 SQZ'D OFF Gray Dum (Phomor Derts) CR@ 1617' (3/80) 12/57 4/2/9.5# @ 17721 cmf 1155x TO 1772 West Red Lake Unit #8 (Conversion) ATTACHMENT VI (schematic)

GR/N 6/8/57 CBL 9/18/6

Trijection Profile 4/2/69
CSS inspection 5/18/72
ENGINEERING CHART

P&A 3/14/80

SHEET	NO.

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DATE 10/23/92

off# \ BY LS Powell

1.18) 11#14 (Mildred Crover Huden - Warden

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# DEVON ENGINEERING CHART PEA 3/17/80

	 •
FILE	 

SUBJECT: West Red Lake #16

S++ 2 7 185-27E 2240 FSL & 450 FEL = 12 4 marsaz ch + 3/90 1 = 1/1 CRE 280 85/8" @925 Contiduy 300 sacks - Costo summe 1090-92 1097-99 10/62 1102-03 1121-24 Z-CRE 1510 1683'-1693' A 5/2"14# J-55 ste 1820' 1825 West Red Lake Unit #8 (Conversion) **ATTACHMENT VI (schematic)** 

EMERGY CORPORATION SUBJECT: Stirling Com#  1650' FNI & 1980' Sac.7-185-27E UI Spud 5-20-75  Gas Well 7-2-75  P&A 3-30-80	30' cont	SHEET NO.  FILE ARCO Eddy C  DATE BY GL 32881 20" cig@ 37	
	25 5x Comt plug 2 18007 1950-19	13%8"csg at 890 Cmt; Toce 78"csg @ 1900'u mt; Toce 87 152' sqz perfs 92 perf (3-80)	/810 SX
Toce 2700' Temp Say (3-80)  Cont Rtnr -7 @ 5112'  TOCE 5190' CBL (3-80)	2675-3 950 sx. cmt plus above rtnr.	1677'sqz perfs	
Cont Rthrage 8720' Cont Rthrage 8824'	9032-9	t below rthre  3777'S92 perfs  174' Production  csg @ 9350'w/  TOC @ 4817'	3-80 (2)12 sxcmt) perfs(592d)

ATTACHMENT VI (schematic)

OEVON	SHEET NO	OF	
ENERGY CORPORATION		arburg & Ing	ram
SUBJECT: Johnston #1	Eo	ldy Cnty, N	М_`
2390' FSL & 990' FWL Section 7-182-27E Unit L	DATE	BY	
Spud 4-58 { :: : : : : } Upon	reachi	na 1501 the	
J&A 4-12-58 } hole	Size	increased fr	om
Spud 4-58 1 100n  JEA 4-12-58 1 100  Depth 150 11"	to 81		•
cemented hole to surface			

w/150 sx and set marker

OCVOIL ENERGY CORPORATION SUBJECT: Gilbert #1		FILE Weier Drig Eddy Cnty, NM
2460/FSL \$ 2622/ F Sec. 7-185-27E Unit K Spud 4-5-48 D&A 4-18-48 filled hole	WL	set cont plug at top  to P\$A  95/8"csa set e 190"  w/25sx cont (left inhole)  TOCE surf
w/heavy mud after spotting cement plugs		Set 30 sx cmt plug @ 760' set 20 sx cmt plug @ 820'
1	D 1068'	

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DEVOIL  ENERGY CORPORATION  SUBJECT: A.A. Kaiser #3  1650' FSL & 1650' F  Sec. 7-185-27E Uni  Spud 11-16-48 Spotkal  D\$A 12-22-48 conting  Swy.:  **The continue of the contin	-EL '-	SHEET NOOF
Spotted and plug		-Cut off 7" csg @ 547'  525-550' to D&A  795-820' to D; A  7" csg set@ 1255'  2/50 sx cmt, Toc @ ~ 550'
TD 1626'		open hole acidized

#### **ATTACHMENT VII**

## **PROPOSED OPERATION**

- 1. Plans are to inject 1800 bbls of produced water per day.
- 2. The injection system will be a closed system.
- 3. The proposed injection pressure is 800 psig. Maximum pressure will be 1000 psig.
- 4. The injection fluid will be reinjected produced water.
- 5. A sample of produced water from the West Red Lake Unit battery was analyzed by the Pro-Kem, Inc. lab. Please refer to Attachment VII (5) for a copy of the analysis.

# Pro-Kem, Inc.

#### WATER ANALYSIS REPORT

#### SAMPLE

Oil Co. : Devon Energy Corp.

Lease : West Red Lake

Well No.: Injection Pump Salesman:

Sample Loc.

Date Analyzed: 05-April-1995

Date Sampled:

#### ANALYSIS

pH 5.900 Specific Gravity 60/60 F. 1.130

3.	CaCO <sub>3</sub> Satura	ation Ind	dex @ 80 F. @ 140 F.	-0.385 +0.605		
D	issolved Gass	ses	C 110 1.	MG/L	EQ. WT.	*MEQ/L
4. 5. 6.	Hydrogen Sul Carbon Diox Dissolved Ox	lfide ide xygen	Not	150 200 Determined		
C	ations					
7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca <sup>++</sup> ) (Mg <sup>++</sup> ) (Na <sup>+</sup> ) (Ba <sup>++</sup> )	(Calculated)	2,004 608 70,719 Determined	/ 20.1 = / 12.2 = / 23.0 =	99.70 49.84 3,074.74
<u>A</u>	nions					
11. 12. 13. 14. 15.	Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH <sup>-</sup> ) (CO <sub>3</sub> <sup>-</sup> ) (HCO <sub>3</sub> ) (SO <sub>4</sub> )		0 0 459 5,600 109,975	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 7.51 114.75 3,097.89
16. 17. 18. 19.	Total Dissol Total Iron Total Hardne Resistivity	(Fe)	ids <sup>ACO</sup> 3 (Calculated)	189,365 7,507 0.009 /cm.	/ 18.2 =	0.11

#### LOGARITHMIC WATER PATTERN \*meq/L.

#### PROBABLE MINERAL COMPOSITION FOUND EQ. WT. X \*meq/L = mg/L. COMPOUND 609 Ca(HCO<sub>3</sub>)<sub>2</sub> 81.04 7.51 HCO3 CaSO<sub>4</sub> 68.07 92.19 6,275 0.00 0 SO4 CaCl2 55.50 Mg <del>∭∭</del> Mg(HCO<sub>3</sub>)<sub>2</sub> 0.00 73.17 10000 1000 100 10 100 1000 10000 1,358 22.56 MgSO<sub>4</sub> 60.19 Calcium Sulfate Solubility Profile 27.27 1,299 MgCL<sub>2</sub> 47.62 4888 0.00 0 NaHCO3 84.00

# 4875 4870 4868 -4855 4858 4835

\*Milli Equivalents per Liter

71.03 58.46 0.00

3,070.62 179,508

0

This water is somewhat corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2 in solution.

NaSOA

NaCl

#### **ATTACHMENT VIII**

## **GEOLOGY AND LITHOLOGY**

Injection zones are sand and dolomite lenses within the Grayburg-San Andres formation at an average depth of 1084-1764' feet. Specifically they are:

Grayburg 1084-1098' (14') San Andres 1610-1764' (154')

#### Fresh Water Zones

Base of near surface aquifer is estimated to be at approximately 500 feet. No fresh water zones exist below the proposed injection intervals.

## ATTACHMENT XII

No evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered as the result of detailed studies of formations in the West Red Lake Unit.

**ATTACHMENT XIII** 

#### **PROOF OF NOTICE**

Devon Energy Corporation (Nevada) operates the West Red Lake Unit in Sections 4, 5, 6, 7, 8 and 9 of T18S, R27E, Eddy County, New Mexico.

Breck Operating Corporation, Manzano Oil Corporation, and Mewbourne Oil operate wells within the area of review. Each of these operators were provided a copy of our application by certified mail. Proof of notice is enclosed.

The Bureau of Land Management is the surface owner. They have been notified by BLM Form 3160-5 Sundry Notice.

#### **PROOF OF PUBLICATION**

Proof of publication from the Carlsbad Current-Argus is enclosed.

## **Affidavit of Publication**

State of New Mexico,

County of Eddy, ss.
Amy McKay
being first duly sworn, on oath says:
That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:
June 27 , 19 <u>96</u>
,19
That the cost of publication is \$25.11, and that payment thereof has been made and will be assessed as court costs.  Subscribed and sworn to before me this
2 4h Till
Subscribed and swom to before me this  30 4h day of June ,1946  My commission expires 08-01-98  Notary Public
Notally 1 dolle

June 27, 1996

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation Division to convert the following well to an injection well for secondary recovery purposes.

West Red Lake Unit #8 1980' FNL & 1980' FEL Section G-7-T18S-R27E Eddy County, NM

The intended purpose of this well is to inject produced waters into the Grayburg-San Andres sand to enhance oil production through secondary recovery. Maximum injection rates of 1500 BWPD and a maximum pressure of 1000 psig are expected.

Interested parties must file objections or requests for hearing within 15 days to the following commission.

New Mexico Oil Conservation Division 2040 South Pacheco Sante Fe, NM 87505

E.L. Buttross, Jr.
District Engineer
Devon Energy Corporation
(Nevada)
20 North Broadway,
Suite 1500
Oklahoma City, OK
(405) 552-4509

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3. Article Addressed to:	4a. Article Number
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Mewbourne Oil Company	4b. Service Type ☐ Registered ☐ Insured
Post office Box 5270	Certified COD
Hobbs, New Mexico 88241	Express Mail Return Receipt Merchandise
delivered.  3. Article Addressed to:  Mewbourne Oil Company Post office Box 5270 Hobbs, New Mexico 88241	7. Date of Delivery
5. Signature (Addressee)/	8. Addressee's Address (Only if requ
5. Signature (Addressee)/ 6. Signature (Agent)	and fee is paid)
6. Signature (Agent)	
PS Form 3811, December 1991 #U.S. GPO: 18	983—352-714 DOMESTIC RETURN REC
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Breckenridge, Texas 76424	Certified
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6. Signature Agents  WWW 1991  PS Form 3811, December 1991 +U.S. GPO: 1990	Date of Delivery      Addressee's Address (Only if reque and fee is paid)
6. Signature Agents  PS Form 3871, December 1991 *U.S. GPO: 199  SENDER: WRLU & (>199-74)	Date of Delivery      Addressee's Address (Only if reque and fee is paid)
6. Signature Agent)  PS Form 3811, December 1991 &U.S. GPO: 199  SENDER: U.S. GPO: 199  Complete items 1 and/or 2 for additional services.  Complete items 3, and 4a & b.	8. Addressee's Address (Only if reque and fee is paid)  10-352-714 DOMESTIC RETURN RECE  1 also wish to receive the following services (for an extension of the services)
6. Signature Agent)  PS Form 3811, December 1991 & U.S. GPO: 199  SENDER: DRLU & Services.  Complete items 1 and/or 2 for additional services.  Print your name and address on the reverse of this form eturn this card to you.	7. Date of Delivery  8. Addressee's Address (Only if reque and fee is paid)  9-352-714 DOMESTIC RETURN RECE  1 also wish to receive the following services (for an extraction of the paid)  so that we can
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