Do not use this form for	UNIPTD ST DEPARTMEL OF T BUREAU OF LAND M JNDRY NOTICES AND R proposals to drill or to dee PPLICATION FOR PERM	HE INTERIOR ANAGEMENT EPORTS ON WELLS pen or reentry to a di	811 S. 1st Street Artesia, NM 882 fferent reservoir.	Divisioform Approved Budget Bureau No. 1004-0135 Expires March 31, 1993 O-2834 Designation and Serial No. LC-067981-A
			Sais	6. If Indian, Allottee or Tribe Name
	SUBMIT IN TRIP			N/A 7. If Unit or CA, Agreement Designation
1. Type of Well	Other Proposed WIW conversion	Q,		8910089700 West Red Lake Unit
2. Name of Operator DEVON ENERGY C	ORPORATION (NEVADA)		णा ३ : १९२६	8. Well Name and No.
3. Address and Telephone No.		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		9. API Well No.
	VAY, SUITE 1500, OKLAHOMA	CITY, OKLAHOMA 73102	(405) 235-3611	30-015-00806
	, T., R., M., or Survey Description)			10. Field and Pool, or Exploratory Area
1980' FNL & 1980' FEL,	Unit G, Section 7-T18S-	R27E		West Red Lake (Q-GB-SA) 11. County or Parish, State
				Eddy Cnty, New Mexico
	PRIATE BOX(s) TO IN	DICATE NATURE	OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMIS	SION		TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·
Notice of Intent		Abandonment		Change of Plans
Subsequent Report		Recompletion Plugging Back		New Construction
		Casing Repair		Water Shut-Off
Final Abandonment Notice		Altering Casing		Conversion to Injection
		Other	`	Dispose Water Note: Report results of multiple completion on Well
	vertical depths for all markers and zones po			ARDE NED
14. I hereby certify that the foregoi Signed	- R. Shaham	Candace R. Gr Title Engineering T		Date July 22, 1996
L	UBJECT TO IKE APPROVAL V STATE Crime for any person knowingly and willful			Date

ENERGY		NEW MEXICO ALS DEPARTHE) I	CONSERVATION DIVISI POST DIFICE BOX (1900 BTATE LAND OFFICE BENEDING GANTA FE, NEW MERICO 9/501	N	Revi	1 C-108 sed 7-1-81
APPLICAT	ION FOR AU	THORIZATION TO IN	IJECT			lu -	RECEIVED
1.	Purpose: Applica	Secondary Rec tion qualifies fo	overy or admini:	Pressure Main strative approva.	tenance 1? Xyea	Dignosh	Storage
Π.	Operator:	Devon Energy Co	orporatio	on (Nevada)			
•	Address:	20 N. Broadway	, Suite :	500, ОКС, ОК 7	3102-8260		
i	Contact pa	rty: E.L. Buttro	oss, Jr.		Phone:	(405) 235-3	611 X4509
		Complete the da proposed for in Attachment III	ta requi: jection.	red on the revers Additional shee	se side of ets may be	this form fo attached if	r each well necessary.
IV.	Is this an	expansion of an ve the Division c	existing rder numb	project? 🔼 y per authorizing (res	no _{R-3469}	•
	injection w well. This	ap that identifie well with a one-h s circle identifi Attachment V	alf mile	radius circle di	awn around	miles of any d each propos	proposed ed injection
VI.	Attach a ta penetrate (well's type a schematic	abulation of data the proposed inje e, construction, c of any plugged Attachment VI	ction zor date dril	ne. Such data st lled, location, d	all includ lepth, reco	de a descript ord of comple	ion of each
	Attach data Refer to	a on the proposed Attachment VII pposed average an			volume of	fluids to be	injected:
	2. Whe	ether the system	is open o	or closed;			
	4. Sou 1 5. If	urces and an appr the receiving for injection is for at or within one	opriate a mation if disposal mile of t	nalysis of injec other than rein purposes into a he proposed well	tion fluid jected pro zone not , attach a	oduced water; productive o chemical an	and f oil or gas alysis of
		the disposal zone literature, studi			measured c	or inferred f	rom existing
4 1 1 1	detail, geo pottom of a total disso injection a injection i	ropriate geologic ological name, th oll underground s olved solids conc zone as well as a interval. Attachment VIII	ickness, ources of entratior	and depth. Give drinking water s of 10,000 mg/1	the geolo (aquifers or less)	ogic name, an containing w overlying th	d depth to atcrs with e proposed
IX. 0	Describe th	ne proposed stimu	lation pr	ogram, if any.	Acidize :	perfs w/5000	gals 15% acid.
x. /	Attach appr with the Di as Malco	ropriate logging ivision they need RefineriesGan	and test not be r Federal	data on the well resubmitted.) Fi #1.	(If wel led at the	e time of dr	bcen filed 1g (in 1957)
XI. A	Attach a ch available a	nemical analysis and producing) wi wells and dates	of fresh thin one	water from two o mile of any inje were taken.	ction or d	isposal well	showing
6 C 8	examined av or any othe source of c	for disposal wel vailable gcologic er hydrologic con drinking water.	and engi	ake an affirmati neering data and	ve stateme find no e	ent that they evidence of o	pen faults
XIII. /	Applicants	Attachment XII must complete th Attachment XIII ion	e "Proof	of Notice" secti	on on the	rcverse side	of this form.
]	hereby ce to the best	ertify that the i of my knowledge	and beli	on submitted with cf.			
1	lame:	E.L. Buttross		۲		trict Engine	
	Signature:	E.J. R. Th	the fr	<u> </u>	Date:	July 12, 199	6
submit	informatic ted, it nec earlir su	on required under ad not be duplica ubmittal.	Sections ted and r	VI, VIII, X, an esubmitted. Ple	d XI above ase show t	e has been pr the date and	eviously circumstance

DISTRIBUTION: Original and one copy to Santa Le with one copy to the appropriate Division

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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:
 - 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 875D1 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 anplications within 15 days from the date this application was mailed to them.

West Red Lake Unit #8 (Conversion) ATTACHMENT III (tabular)

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' (±).
 - (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.

West Red Lake Unit #8 (Conversion) ATTACHMENT III (schematic) original bv alco Refining Red Lake Unit #8 1980' FAIL & 1980' FS Unit G ection Eddy 7-185-27E KB 8'AGL GL 3360 Present Pre Posed Spud 6-12-57 878" 24# J-55 set eq79' cmt'd w/460 SX; TOC e surface 23/8" IPC or fiberglass TBG 5%"x 2%" plasti coated = 1084-88' w/8 holes (Premier = 1094-98' w/8 holes (Premier 1084' 4D-1 1098' 3/13/70 ren sion Dacker Set @ I 1000' 1610-12' w/4 holes 1610' , SA *A" 1645-47 w/4 holos 1662-82' w/40 holes 1682 6/23/57 1697-1704 w/14 tola 1697' 1708-12' w/8 holes 1722-24" w/4 holes 1732-36' w/8 holes SA"B" -1756-58' w/ 4 holes 1760-64' w/8 holes 1764" 51/2" 14# J-55 set 555555 C 1797'w/225 SX 553 TD1799' cmt; Toc @ 796' TC 1799' (Temp Svy) PBTD 1782 PBTD 1782'

R 27 E







West Red Lake Unit #8	8 (Conversion)			A	ATTACHM	ENT	VI				
WELL NAME	Eddy Cnty. NM	TD	SPUD	CPIN	WEII			3	MDIE	COMPLETION RECORD	
(Operator)	LOCATION	PBTD	DATE	DATE	TYPE	CASING,	lbs	SET	SX CMT	TOC	PERFS
West Red Lake Unit #3 (Devon)	660' FNL & 1980' FWL Sec. C-7-T18S-R27E	TD 1803' PB 1791'	06-01-57	06-14-57	OIL		24 14	,1801,	350 775	Surface 860' (Temp Svv)	1596-1709'
				06-02-70 02-22-92	(ooo (Tenip ay)	1030-1703 1042-1052' 1772-1784'
West Red Lake Unit #4 (Devon)	2310' FNL & 1650' FWL Sec. F-7-T18S-R27E	TD 1796' PB 1767'	06-24-57	12-18-57	OIL	8 5/8" 5 1/2"	24 14	874' 1774'	360 250	Surface 368' (CBL 3/80)	1724-1734'
						-					998-1012' 1578-1676'
	1			09-23-68	WIW	-				injection pkr 1080'	1032-1036'
				08-61-50	Ρ&Α					cmt retainers at 902', 1497', 1703'	all perfs sqzd perfs to P&A
										filled 5 1/2" csg w/cmt to P&A	at 340-341'
West Red Lake Unit #5 (Devon)	2280' FSL & 1710' FWL Sec. K-7-T18S-R27E	TD 1765'	07-29-57	08-17-57 12-17-70	OIL P&A	7" 4 1/2"		879' 1765'	175 105	Surface 630' (Temp Svy sqzd 4 1/2" csg then shot off at 80' & pulled for P&A	cored 985-1035' pf'd 1000-06' all perfs sqzd set cmt plug 123' to surf
West Rcd Lake Unit #6 (Devon)	2460' FSL & 2580' FWL Sec. K-7-T18S-R27E	TD 1677'	1948	05-27-48	OIL	9 5/8" 7"		163' 1105'	100	Surface 490' (Calc)	1582-92' OH
		TD 1776' PB 1771'		02-22-57 03-09-70 02-29-92		4 1/2"	9.5	1776'	135	1450' (Temp Svy)	1688-1691' 998-1007' 1740-1754'
von)	1980' FSL & 990' FWL Sec. B-7-T18S-R27E	TD 1824' PB 1821'	07-30-58	09-24-58 03-20-70	OIL	7" 4 1/2"	20 9.5	928' 1824'	292 75	. 260' (Temp Svy) 1262' (calculated)	1690-1784' 1103-1115'
West Red Lake Unit #8 (Devon)	1980' FNL & 1980' FEL Sec. G-7-T18S-R27E	TD 1799' PB 1782'	06-12-57	06-24-57 03-13-70	OIL	8 5/8" 5 1/2"	24 14	979' 1797'	460 225	Surface 796' (Temp Svy)	1610-1764' 1084-1098'
West Red Lake Unit #9 (Devon)	2310' FSL & 2026' FEL Sec. J-7-T18S-R27E	TD 1662'	12-22-47	03-16-48	OIL	10" 8 5/8" 7"	40 28 20	107' 836' 1151'	80 160	Surface Surface 398' (calculated)	1151-1662' он
West Red I ake I Init #10	7110' ECI & 1650' EEI	TD 1759'	1072	04-18-57		4"		1737'			1615-76'
West Red Lake Unit #10 (Devon)	2310' FSL & 1650' FEL Sec. 1-7-T18S-R27E	TD 1670' TD 1770' PB 1710'	1932	1932 01-02-59 03-18-70	OIL	7" 4 1/2"	20 9.5	876' 1750'	210	Surface Surface	876-1670' он 1602-1622' 1642-1674'
										(sqzd alter testing)	1034-1047

1526-1956'	Surface Surface	500 425	971' 2100'	24 15.5	8 5/8" 5 1/2"	OIL	11-09-95	10-20-95	1D 2100 [°] PB 2054 [°]	Sec. B-7-T18S-R27E	(Devon)
1548-1808' 1358-1440'	Surface	350	1954'	15.5	5 1/2"	OIL	03-25-95 06-11-95		PB 1889'	Sec. D-7-T18S-R27E	(Devon)
	Surface	ŝ	922,	24	8 5/8"			01-14-95	TD 1955'	990' FNL & 990' FWL	West Red Lake Unit #39
1535-1750'	Surface Surface	625 435	889' 2449'	24 15.5	8 5/8" 5 1/2"	OIL	01-21-94	08-26-93	TD 2450' PB 2394'	1490' FNL & 2050' FWL Sec. F-7-T18S-R27E	(Devon)
1615-1746' 1079-89'	Surface 618' (Temp Svy)	325 225	918' 1739'	24 14	8 5/8" 5 1/2"	OIL	07-18-57 12-05-57	07-07-57	TD 1768' PB 1767'	1980' FNL & 660' FWL Sec. E-8-T18S-R27E	(Devon)
	W/CINIL TO P&A									1090'ENT & //0'ENT	West Ded I also That #10
all perfs sqzd	filled 5 1/2" csg										
at 493'	881' and 1511'										
nerfs to P& A	cmt retainers at					P&A	03-17-80				
1683-1774'	430' injection akt 1175'	225	1820,	14	3 I/Z"		09-23-68			JCC. 1-1-1 103-K47E	
	Surface	300	925'	24	8 5/8"	2		06-17-57	TD 1824'	2240' FSL & 400' FEL	(Devon)
1044-1064' 1628-1720'	perf°d					OIL			PB 1737'	Sec. H-7-1118S-R27E	(Devon)
1040-89'	Surrace cored	530	1760'	9.5	4 1/2"		12-15-62	10-17-62	TD 1775'	2310' FNL & 990' FEL	West Red Lake Unit #15
	w/cmt to P&A										
	filled 4 1/2" csg										
•	1496' and 961'										
all perfs sqzd	cmt retainers at					P&A	03-14-80				
1057-1096'	injection pkr 1152'					WIW	09-27-68				
	at surface										
096-656	972' (CBL)	80	1751,	9.5	4 1/2"	OIL	/2-01-90		PD 1/4/	SEC. 1-1-1185-K2/E	
1664-1720' OH	Surface	75	1011'	20	7")	11-52	11-52	TD 1750'	1650' FNL & 330' FEL	West Red Lake Unit #14
1129-1174'	injection pkr 1071'			& 11		WIW	09-27-68				
1716-1760'	610' (Temp Svy)	120	1826'	9.5	4 1/2"	OIL	04-10-57		PB 1819'	Sec. A-7-T18S-R27E	(Devon)
	Surface	200	1205'	& 23	7"20#			04-57	TD 1826'	330' FSL & 990' FEL	West Red Lake Unit #13
•	w/cmt to P&A										
all perfs sqzd	filled 4 1/2" csg										
at 724-725'	1617' and 980'										
norfe to D.P. A	cmt retainers at					P& A	03-18-80				
1032-1047	injection ner 1080'			10 5	:	WIW	03-05-70		1		
1642-1727'	Surface	225	863°	9.5 æ	4 1 <i>/</i> 2"	OII	12-18-57	12-04-57	TD 1775' PB 1760'	990' FSL & 1810' FEL Sec. O-7-T18S-R27E	(Devon)
PERFS	T TOC	SX CMT	SET	, Ibs	CASING,	TYPE	DATE	DATE	PBTD	LOCATION	(uperator)
	COMPLETION RECORD	OMPLE	<u>0</u>			WELL	CPLN	SPUD	TD	Eddy Cnty, NM	WELL NAME

. . West Red Lake Unit #8 (Conversion)

Attachment VI Page 2

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	Attachment VI
	Page 3

Johnston #1 (Nearburg & Ingram) Sec. L-7-T18S-R27E	derai #1Y			(ARCO) Sec. K-7-T18S-R27E	Com #1 16	West Red Lake Unit #57 280' FSL & 850' FEL (Devon) Sec. P-6-T18S-R27E		von) 1/80 FSL & 105 FEL Wet Red Lake Unit #56 2100, ESL & 1080, EWT				
2 990' FWL 18S-R27E	2 990' FWL 18S-R27E	2290' FWL 18S-R27E		'18S-R27E	2 1980' FWL	2 850' FEL	18S-R27E	8 133 FEL	2 2000 FWL 18S-R27E	1430 FNL & 890 FEL Sec. H-7-T18S-R27E	1090' FNL & 820' FWL Sec. D-8-T18S-R27E	Eddy Cnty, NM LOCATION
TD 150'	TD 1810'	TD 1765' PB 1747'			TD 9350'	TD 2150' PB 2086'	PB 1883'	PB 2019'	PB 1873'	PB 1982'	TD 2050' PB 1954'	TD PBTD
04-58	04-07-58	08-10-57			05-20-75	10-13-95	11-01-50	10-02-95	01-21-95	10-26-95	02-04-95	SPUD DATE
04-12-58	08-19-58	09-01-57 02-26-69		07-02-75 03-30-80		10-07-95	11-22-95	10-20-95	04-15-95	11-17-95	03-12-95 08-06-95	CPLN DATE
J&A	OIL	OIL WIW		Morrow GAS P&A	QE	011	OIL	OIL	OIL	OIL	OIL	WELL TYPE
N/A	18" 8 5/8" 5 1/2"	8 5/8" 5 1/2"		8 5/8" 5 1/2"	13 3/8"	5 1/ <u>)</u> "	13 3/8 8 5/8" 5 1/2"	8 5/8" 5 1/2"	13 3/8" 8 5/8" 5 1/2"	8 5/8" 5 1/2"	8 5/8" 5 1/2"	CASING,
	24 14 1	28 14 1		5		24	48 24 15.5		48 24 15.5	24 15.5	24 15.5	lbs
	50' 872' 1810'	917' 1765'		1900' 9350'	890 [,]	9999' 9149'	201 899' 1949'	949' 2096'	204' 915' 1949'	964' 2049'	1025' 2049'	<u>CO</u> SET
	50 590 225	300 125		810 850		43 SOO	500 340	650 375	200 450 400	675 425	550 350	MPLET SX CMT
hole increased from 11" to 8' at 150'; skidded rig; cmt'd hole and surface w/150 sx to J&A	Surface Surface 800' (Temp Svy)	Surface 900'	and spotted cmt plugs + 30' cmt plug at surface	87' (calculated) 4817' (calculated) set cmt retainers at 8824', 8720', 5112'	Surface	Surface	Surface Surface	Surface Surface	60' Surface Surface	Surface Surface	Surface Surface	<u>COMPLETION RECORD</u> T SX CMT TOC
N/A	990-1670'	1690-1726' 1662-1699'	77', 5160-61', 2675-77', 2600', and 1950-52' all perfs sqzd	9035-9174' for P&A perf'd 8770-	7941-6701	1620 10621	1374-1807'	1512-1913'	1018-1818'	1498-1908'	1662-1912' 1498-1570'	PERFS

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West Red Lake Unit #8 (Conversion)

Attachment VI Page 4

142-9201		ſ	1002		┡						
	7060' (Tame C)	205	02851	4 1/2"	GAS 4		10-08-71				
	Surface	475	1971'	5/8"	Penn 8	Pe			_		
	Surface	540	900'	11 3/4"			·			SEC. J-/-1183-R2/E	
	Surface	250	200'	16"				08-19-73	TD 9385'	1980' FSL & 1980' FEL	Mewbourne Oil
	off 7" csg, at 547')										Data and Com #1
	820' to surface (cut										
	spotted cmt plugs										
1240-1626'	550' (estimated)	50	1255'	7"	D&A		12-22-48			Sec. J-1-118S-K2/E	
	Surface	80	114'	9 5/8"				11-16-48	TD 1626'	1000 FSL & 1650 FEL	A.A. Maiser #3
	plug at top					╞					
	hole w/mud, cmt										
9 5/8" in hole	820' and 760', filled										
for P&A left	set cmt plugs at					~	04-18-48		<u> </u>	300. N-1-1183-R21E	
	Surface	190' 25	190'	9 5/8"	D&A 9		, , ,	04-05-48	10 1068,	2400 FSL & 2622 FWL	(Weier Drilling)
PERFS	TOC	SET SYCMT TOC	SET	CASING, Ibs	ITTE CA	╀	DAIE		1010		
	I TOTAL THE OWNER					_			DDTT	Incation	(Operator)
	COMPLETION RECORD	MPI F	2		WELL	_	CPLN	SPUD	TD	Eddy Cnty, NM	WELL NAME

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-X NOTE ALL INFO FROM SCOUT CARds SHEET NO. No WPII file found. OF **BORVOIT** ENGINEERING CHART PEA 12/11/10 FILE DATE 10/12/92 BY 15 Power SUBJECT: WRLU #5 (Wier Drla Co. - Gilbert #2) 22B0'FSLE 1710'FUL Section 7-188-27E shy off 4'b' a 80' Elevation 3296 DF Comput PIUS from 2 to 122 7' a 879' cmt'd w/175 sx Coper 485-1035 Recover 50' Hold 24shots 000-1006 Let toget coment 502 w/50 sx side 411- - +0 650' TOC CALCULATIO Put 2 20 Sx in zove 1200 USING 6'4" bit w/Bod eres TOC CALCULATED USING 6'66+ X4 /2 10 1091' 140 B N 4" @ 1765 w/ 105 5x West Red Lake Unit #8 (Conversion) **ATTACHMENT VI (schematic)** 1

Devon Does it Deeper!

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SHEET NO. OF FILE Nearburg & Ingram Eddy Cnty SUBJECT: Johnston 2390' FSL & 990' FWL Section 7-185-27E Unit L DATE _____ BY. Spud 4-58 4 4-12-58 4 4-12-58 4 Hoon reaching 150' the Depth 150' 11" to 8' comented hole to surface w/150 sx and set marker

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SHEET NO. OF_ FILE Weier Drla SUBJECT: Gilbert #1 2460'FSL \$ 2622' FWL Sec. 7-185-27E Unit K DATE set ant plug at top to P\$A Spud 4-5-48 D&A 4-18-48 95/5" cog set e 198' W/25x cmt (left in hole) TOCE surf filled hole w/heavy mud after spotting cement plugs Set 30 sx cmt plug @ 760' There is a contract set 20 sx cmt plug C 820' TD 1068'

SHEET NO. ___ FILE Weier Drlg Eddy Cnty, NM A.A. Kaiser #3 SUBJECT: 1650' FSL & 1650' FEL Sec. 7-185-27E Unit J Spud 11-16-48 spotted D \$A 12-22-48 control plug: 44 95/8" Csq set€ 114'
 ₩/80 sx cmt, Toc
 € surf - Cut off 7" csg@ 547' 525-550' to D&A 795-820' to Di A 7" csq set@ 1255' w/50 sx cmt, Toc @≈550' open hole acidized TD , West Red Lake Unit #8 (Conversion) **ATTACHMENT VI (schematic)**

ATTACHMENT VII

PROPOSED OPERATION

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1. Plans are to inject 1800 bbls of produced water per day.

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- 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.

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ATTACHME VII (B)



WATER ANALYSIS REPORT

SAMPLE

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Oil Co. : Devon Energy Corp. Lease : West Red Lake Well No.: Injection Pump Salesman:

Sample Loc. : Date Analyzed: 05-April-1995 Date Sampled : •. .

ANALYSIS

ANALISIS		
1. pH 2. Specific Gravity 60/60 F. 5.900 3. CaCO ₃ Saturation Index 6 80 F0 6 140 F. +0	385	
Dissolved Gasses	605 <u>MG/L</u> EQ.WT.	*MEQ/L
 Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen Not Det 	150	
Cations		
7. Calcium (Ca ⁺⁺) 8. Magnesium (Mg ⁺⁺) 9. Sodium (Na ⁺) (Calculated) 10. Barium (Ba ⁺⁺) Not Det	2,004 / 20.1 = 608 / 12.2 = 70,719 / 23.0 =	99.70 49.84 3,074.74
Anions		
<pre>11. Hydroxyl (OH⁻) 12. Carbonate (CO₃⁻) 13. Bicarbonate (HCO₃⁻) 14. Sulfate (SO₄⁻) 15. Chloride (Cl⁻)</pre>	0 / 17.0 = 0 / 30.0 = 459 / 61.1 = 5,600 / 48.8 = 109,975 / 35.5 =	0.00 7.51 114.75
16. Total Dissolved Solida	.89,365	3,097.89
18. Total Hardness As CaCO ₃ 19. Resistivity 6 75 Paco3	7,507 / 18.2 = 009 /cm.	0.11
LOGARITHMIC WATER PATTERN *meq/L.	PROBABLE MINER	CAL COMPOSITION X *meq/L = mg/L.
	Ca(HCO ₃) ₂ 81.04	7.51 609
Ma HCO3	CaSO ₄ 68.07	92.19 6,275
Mg ####################################	CaCl ₂ 55.50	0.00 0
Fe 10000 1000 100 10 1 10 100 1000 10000	Mg(HCO ₃) ₂ 73.17	0.00 0
Calcium Sulfate Solubility Profile	MgSO ₄ 60.19	22.56 1,358
	MgCL ₂ 47.62	27.27 1,299
	NaHCO3 84.00	0.00 0
	NaSO ₄ 71.03	0.00 0
	NaCl 58.46	3,070.62 179,508
This water is somewhat corrosive due to the The corrosivity is increased by the	*Milli Equival H observed on ana	ents per Liter

The corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2 in solution.

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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:

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

Fresh Water Zones

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

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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.

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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.

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Affidavit of Publication

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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>
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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

dayof

My commission expires 08-01-98 Notary Public

Nº 17871

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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