Chevron U.S.A. Production Company



P.O. Box 1150

Midland, TX 79702

OFT - 8 1997

September 17, 1997

APPLICATION FOR AUTHORIZATION TO INJECT - OCD FORM C-108 EUNICE MONUMENT SOUTH UNIT EUNICE MONUMENT OIL POOL LEA COUNTY, NEW MEXICO

State of New Mexico Energy and Minerals Dept. Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504

Attention: Mr. William J. Lemay, Director

Gentlemen:

Chevron U.S.A. Production Co. requests your approval of the subject application to inject water into Eunice Monument South Unit Well No. 679 located in Unit D, Section 8, Township 21 South, Range 36 East, Lea County, New Mexico.

Chevron converted this producer to an injector due to its poor performance. This conversion will provide the much needed injection support in this area and enhance the production of the EMSU secondary recovery unit.

Attached is an OCD Form C-108 with information relative to the water injection conversion of the EMSU #679.

A copy of this letter and application is being sent to applicable surface land owners and offset operators by certified mail as their notice.

Your prompt consideration and approval of this application will be greatly appreciated. If further information is required please contact me at (915) 687-7645.

Sincerely, Dracy Love

Tracy G. Love Petroleum Engineer

New Mexico Waterfloods

TL Attachments

CH	IECKLIST for Al	<u>OMINISTR</u>	ATIVE I	NJECTION A	PPLICATION	S
Operator: HEVR	ON U.S.A.PR	20.Co.	Well:	EMSU "	4679	
Contact: TRACY						915 · 687 · 764
DATE IN	10.8.97	RELEASE DA	TE <u>/0 ·</u>	<i>23.97</i> DAT	TE OUT <u>/ Z · / 2</u>	2.97
Proposed Injection A	pplication is for:	<u> </u>	WATERF	LOOD	Expansio	n Initial
Original Order: R- <u>7</u>	766	<u> </u>	Secondar	y Recovery	Pressure	Maintenance
SENSITIVE A	AREAS		SALT WA	ATER DISPOSA	L Commer	cial Well
WIPP Çal	pitan Reef					
Data is complete for		Addi	tional Dat	a Req'd		
AREA of REVIEW W	ELLS	,				
	<u>/ 7</u> Total # of A	AOR		# of Plug	ged Wells	
	リ <u>め</u> Tabulation (Complete		Schemati	ics of P & A's	
	465 Cement Top	os Adequate		AOR Rep		
INJECTION FORMA	TION					
Injection Forr	mation(s)	RBG -	SA		Compati	ble Analysis 4/5
Source of Water or Ir	njectate	EA FR	<u>OD/C11</u>	on_		
PROOF of NOTICE						
<u>\</u> (Copy of Legal Notic	е		Information	on Printed Corre	ectly
<u>\</u>	Correct Operators			Copies of	Certified Mail F	Receipts
NO	Objection Received			Set to He	aring	Date
NOTES:						.—
		<u>-</u> ".				
	APPLICATION QU	ALIFIES FO	R ADMIN	ISTRATIVE AP	PROVAL? 443	,
COMMUNICATION WITH CONTAC						
1 st Contact;		Letter				
2nd Contact:		Letter	· · · · · · · · · · · · · · · · · · ·			
3rd Contact:	Telephoned	Letter	Date	Nature of Discussion		

UIL CUNSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501

FORM C-108 Revised 7-1-81

I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes no
I.	Operator: Chevron V.S.A. Production Co.
	Address: P.O. Box 1150 Midland, TX 79702
	Contact party: Tracy Love - Petroleum Eng. Phone: (915) 687-7645
Ι.	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.
/ .	Is this an expansion of an existing project? \boxtimes yes \square no $R-7766$.
<i>i</i> .	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.
Ι.	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.
	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; 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.).
•	Attach appropriate geological data on the injection zone including appropriate lithological, 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.
	Describe the proposed stimulation program, if any.
•	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 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 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.
•	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
•	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Tracy G. Love Title Petroleum Engineer Signature: Date: 9/17/97
	Signature: Date: 1/////

- Commissioners hearing held on 11-07-84 (Order No. 7766-Effective 12-27-84 DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

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

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

EMSU # 679 Conversion to Injection Eunice Monument South Unit Lea County, NM

INFORMATION FOR NMOCD FORM C-108

ITEM I

(See OCD Form C-108)

ITEM II

(See OCD Form C-108)

ITEM III

See attached wellbore schematic.

ITEM IV

(See OCD Form C-108)

ITEM V

This was originally submitted as Exhibit No. 28 Case No. 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). Smaller area maps relating to the EMSU #679 conversion are attached.

ITEM VI

This was originally submitted as Exhibit No. 31 of Case 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). Please note attached schematic diagrams of new drilled wells within the area of review since the effective date of the Order. No existing wells at the time of the original Order are known to have been plugged and abandoned.

ITEM VII

See attached table showing items VII (1). (2), and (3) for the subject well of this C-108 application. Items VII (4) and (5) are consistent with the original C-108 application and its Exhibit No. 33a.

ITEM VIII

This was originally submitted as Exhibit No. 34a and 36 of Case No. 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). Copies of these Exhibits are enclosed.

ITEM IX

No proposed stimulation program.

ITEM X

Logging and test data have been filed with the OCD.

ITEM XI

This was originally submitted as Exhibit No. 37 of Case 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). A copy of this Exhibit is enclosed.

ITEM XII

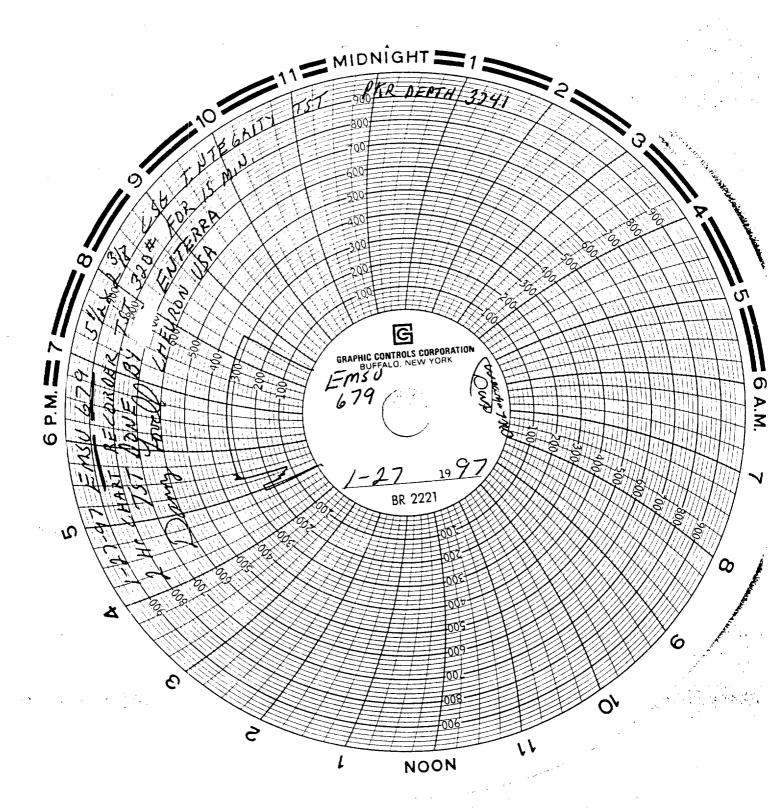
This was originally submitted as Exhibit No. 38 of Case 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). A copy of this Exhibit is enclosed.

EMSU # 679 Conversion to Injection Eunice Monument South Unit Lea County, NM

ITEM XIII

All surface land owners and offset operators are being notified by Certified Mail with a copy of the C-108 Form. A request for publication in the Hobbs News-Sun was mailed on 9-17-97. The actual newspaper add and an affidavit of publication will be forwarded to the OCD as soon as it is obtained.

Lease & V	Wellno <i>E1</i>	775U # 679		Field / Pool Eunice Monument 6 to 151 Date 8/7/96
٠	1220	Feet From NORTH	_Line and	1220 Feet From West Line
Section	B, T215	R36E	County	hea NM Operator Chevron
	8, 12, 3	GE _3585.5 KDB to GE _/ DF to GE + 69 85/8 * OD 32 * Gr, set @ /220 * w/	#Thd Csg. sx.	Date Completed 11/1/90 Initial Formation Beautines From: 3852 "to 4097 "GOR 3200 Initial: Production 15 BOPD 222 BWPD Or: Injection BWPD @ psig Completion Data: Peef 4045-47; 4052-64; 4059-61; 4064-66; 4069-71; 4083-90 4095-97; w/23HPF. Acad w/1800 and 152, Herea i ECNE; 5 wond 446w 4 runo EFL: 1700; 5006 12B0/156 BW 441mm, EFL: 3400; 5w6 680/766w 166mm EFL: 2800; Perf 3852-54, 3859-61, 3886-82, 3904-14, 3929-31, 3952-54 3970-76; w/ 23HPF. Acad w/ 2000 and 152 Netern i ECNE; 5 who 460/42Em EFL: 5w6 380/358w 9em EF-: 3600; Paton pump Tosted 1580/222 Bw/48 wfpd FLESN. (Datad 11/25/90) Tost (picked up on Rpt) 12/20/90 = 4B-/268 BW/20 metryl FLESN
		Cmt Circ.? _/e TOC @_sure_'t	ру <u></u>	Subsequent Workover or Reconditioning: 2/91 - Set RBPe 4080', Test pump 3852-4071' Last test 380/20884 25 met Flesh. Pull ; set RBPe 4025' Test pump 3852-3976'. Last
3699 . 3775 -	N N	5 1/2 Guberson 56.6 pt - 8 XL	Pastic conted On/044 Teol	Test 2B0/22BW/ 4 metod FLCSN. POHW/RFF and return all enti- to prod. Text 1B0/365 DW/30 metro. FLCSN. 7/91 - Set pki0 4029' Purporte 24:25 No comm. Seel CICF C
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3888		= 3852-54' = 3859-61' = 3886-88'		4-6W Fet O. Acad 3852-3976 6/2000 calls. Weren Sub 62 EW EFL 32, Acad Cods 3778-3886 W/1250 apt 152 Weren Sub 20 EW Fet = 0 Patin
3954	₹2a =	= 3904-14' = 3929-31' = 3952-53'592d		5/94-Fill & 4004' (16 fill). C/O to PBTD 4080'. Trt perfs 3852'-4071' w/prf clan trol, 1424 gal Idulene & Isoropy
3998 —	Z3 =	= 3954·62' = 3 9 70·76' = 4045·47'	-	Archyl. & 4750 ral 15%. Suab 33 HJs. SNO 4040. 15T: B-2B0/194 BW/SMCF. A-3B0/579 BW/6 MCF. FL=464 ASN
4062 —	£5 PPTD 40B0	= 4052-54' = 4055-64 sqzd = 4059-61' = 4064-66' = 4069-71 = 4088-90' 7 Sqzb		1/97- TOH w/ Pred eap. RIH w/ 5/2 Conberson place wated 5-6 ptr , X L ON/OF TOOL & 27/2" IPC the rested to 200 psi, Perton 600 MIT.
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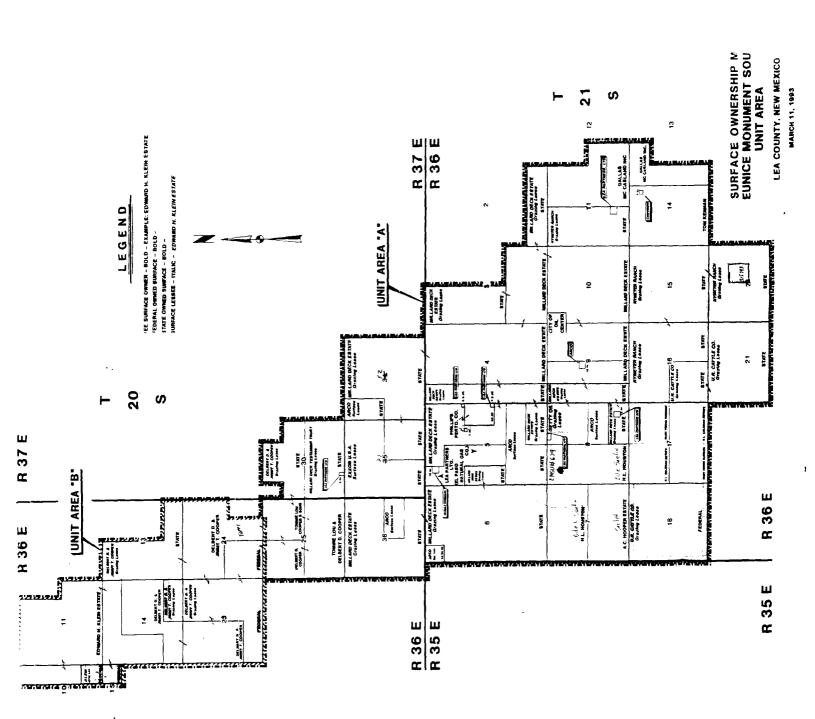


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LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE



21 S

7 20 S

Well	Data Sheet 2/10/20
Pase & Wellno EMSU = 649 Location 210 Feet From South Line and Section 6 7215 R36 County	Field / Pool Eurice Monumer Gos/SA Date 40 Feet From 425 Line Les NowMerice Operator Chevren USA
GE KDB to GE	Date Completed 196 Initial Formation Grateurs From: to GOR Initial: Production BOPD BWPD Or: Injection BWPD psig Completion Data: Per 3582-95' - 3900-23'/
85/2 ' OD 24 #Thd GrCsg. set @//90' w/ 675 sx. Cmt Circ.? Yes. TOC @ suef ' by circ.	Subsequent Workover or Reconditioning: RBP @ 3863! 2/96 Port 3809-12, 3816-22, 3826-44, Acoz. Perfs 5809-3844 w/3000 gals 15% HC/ im 7 stages. RIH W/PE. TOP 4/96 Retrieve & Poth W/RBP @ 3863!. Doc 10 4040! Port W/3 THPF 3786-94, 3851-56, 3862-67,
37%-94====================================	3890-99, 3947-54, 3970-77, 3986-98. ACDZ Dev fs. W. 8400 gals 1590 in 15 stages. Swat -8M EFL -1800', EFL' 2800'. Rec'd 45 BW. RIHWIPE, TOP.
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5/2 * OD/55 # Thd Gr Csg. set @ 1004 * w/ 575 sx. Cmt Circ.? NO TOC @ 720 * by TS	Present Injbwpd @psi Date Present Prodbopdbwpd Date

PBD <u>4003</u>

ease & Wellno $EMSU + 650$ Location 250 Feet From $North$ Line and Section 8 , $7-21-5$, $R-36-E$ County	Field / Pool <u>Funice Monument</u> Date 4/24/97 1/35 Feet From <u>West</u> Line Lea, NM Operator (herron U.S.A.
GE 3576 KDB to GE 5.5 DF to GE 4.5 KB 3581.5 DF 3580.5	Date Completed 3-10-97 Initial Formation From: 'to 'GOR Initial: Production BOPD BWPD Or: Injection BWPD psig Completion Data: Cored 3755 - 4039, GR/LDT/CNL/EHC/DLL/INCFL/CM
8 % OD 24 Thd Gr. K-55, 57 & C Csg. set @ 1185 'w/650 sx. Cmt Circ.? 145 sv. TOC @ 0 'by circ.	
,	Subsequent Workover or Reconditioning: 947 Dr. Fersemt to 4021. Circles. Pickle approxyels 15% HCL. Perf f/3240. So. 384-11, 3977-390, 3907-10, 3916 =334 3960-66 (25448F). Set BP@4020. Spot 500 gals Raisol II. Acdz ap/1000 gals Paisol II. Acdz w/5000 gr/s 15% Resisol II formal w/Nz (9stages w/50-189). Ret BP. Run GR Log all zone frestad.
3840-56 = 3861-71 = 3877-3900 = 3907-10	
= 39%-23 = 3962-66 5 1/2 · OD 15.5# 8 od Tha	
25jts 17# 1111'	Logs 4/17 CNYGR + GR KBL Jecl
1st stage 40sx 36circ 2nd stage 875sx 50cive	Present Inj bwpd @ psi Date Present Prod bopd bwpd Date Gas mcfpd

PBD TD <u>4038</u>

BI9675

Lease & W	ellno EMSU	680	_ -	Field / Pool Date <u>3-/-</u>	97
Location	1490 Feet Fro	m North Lin	e and	185 Feet From <u>EAST</u> Line	
Section	1 T2/5	R36E (County	185 Feet From <u>EAST</u> Line LEN Operator <u>Cheuron</u>	
	KB	3588	LMD	Initial Formation	
	42	3582'		Initial: Production BOPD BWPD Or: Injection BWPD @ psig	
	89	6 - 00 24 # C	sg.K-55	Initial: Production BOPD BWPD Or: Injection BWPD Deposite Completion Data: 2-7-97 LOST CIRCULATION DE 3637 CORE 3750-4016 LDT/CNL/DLL/MCFL/GA SONIC LIMPE TILD 3572 VENERAL TO OVERSE	7
12/4	set Cm1	@/zzs' w/ <u>650</u> Circ.? <u>/055x</u>	SX.	LORE 3750-4076 LDT/CNL/DLL/MCFL/64	<u>e</u> -
		@ <u>0</u> by <u>C</u>	TRE SAME	Subsequent Workover or Reconditioning:	
				2-7-99 LOST CITE & 3637' 28-99 CORE 3750-4076	— ठार
				3-20 97 Drill DU Trol Drill Float Come + Cret +0 4001	_
				3-21-97 Run GRKBL KCL F/4366 to 1225' GRKCL to surf. Lo cont @ 1200' mone f/3 500 to sert 3-21 97 Perf f3863' to 5877' 3900-3939, 3934 4003 4009 4018, 4024-	
				RIH W/PKR to 3863 + PBP 324-97 Spot 220 gals Risi-sol II brok dam pays 5/40-22-3877, more oke to	_
				3763 Pmp 168 bbis Resident Widsballsoning even 10 bbls 3: 45 47 Rud KUB'SB2.1 BPM. Flush POH WIRBF & PKr. RIH willing.	_
				4-9-97 POHW/prod exip	_
				4-10-47 acdz w/ 4000 gal 90/10 Rosirsol II. Ru GR f/3990-3700	_
					_
e zone					<u>-</u>
637					_
					_
					<u> </u>
	= 3%5.5977 = 39co - 3939				_
	= 3984 - 4003 = 409-40181 = 4024-4032				_
/"	5 1/2	" OD/5.5# 8 nd 1<-55. C			_ _ _
3 5/8"	set ©	/-55, C D <u>4075 WI 275</u> Circ.? <u>/30</u> @ <u>Surf</u> ' by <u>L</u>	sx.		_
	TOC	@ Surf by DI ZND Stage	TC .		<u>-</u>
		J., 5 -1-4			<u>-</u>
	•		•		_
					-
			•		- -

PBD //nn/

	_ Field / Pool <u>Eun se Mismument Gks/SA</u> Date <u>1/24/</u> and <u>1520</u> Feet From <u>west</u> Line unty <u>Lea Lew West</u> Operator <u>Cheurs</u>
GE _3586.7 KDB to GE _/7.6 DF to GE	Date Completed 2-1/-87 Initial Formation Ser Frier From: 4252 to 5202 GOR— Initial: Production—BOPD 15840 BWPD Or: Injection—BWPD @—psig Completion Data: This first is a first is up to the survey consed SP failure PWOP and power surce consed SP failure Subsequent Workover or Reconditioning: #87-Pull is rerun pump. Empower motor queid did not work. Ran Baker-Litt 300HP: 2360Y-80 a moner coated reator equal zer. 46 stg pump. Run an 4'2' 10,5° STC IPC csq for the Ppg 16320 BWPD @ 75 pmgs. 10/88-SP grounded In hole. PoH. Btm 33 its csq p.tted. cable also bad (btm 33 its). XO calle 2/ poly calle, exchambad csa 2/Cl. B. Ran new Trico motor, pump, seed. Tst 1250BWP.
85/8 • OD 32 #Thd Gr. 14 · 55 ,Csg. set @ 4350 ' w/ 750 sx. Cmt Circ.? No TOC @ 700 ' by 75	5/89 - Grad dahole. POH. Revon pump's motor. XD seed apolly Tot 12600 BWPD @ 80 Amps. 8/89 - Grad dahole. during elec. style. POH, found burns mater. No motor i seed oanby. Tot 17300 EWPD @ 75 Amps. 9/90 - Replaced burst mater is pump of Centrilife 440HP motor i series 675 pup. Ren new poly colle. Tot 21800 burloe Xe 9/92 - Replaced Shorted mater of 450 HP Centrilife motors. XC Shorted cable. Revon pump i cog. Tot 20 one BWPD 1/95 - POH, motor burnt. Pump tot bad. Run new pump; motor Cont. 1: ft 32HC19000 450 HP 32 stg ESP. Run new pump; motor Cont. 1: ft 32HC19000 450 HP 32 stg ESP. Run rew round colle warehouse ald flat cable. Test 22000 BWPD. Present Prod bupd psi Date Gas mcfpd

Lease & Wellno <u>f.f.</u>	6021117 6 to	Field / Pool Grant County Date Date
Location (22)	eet From Line and	Feet From Line
Section $\mathcal{L}_{\mathcal{A}} = \mathcal{L}_{\mathcal{A}}$	County	
	GE KDB to GE DF to GE	Date Completed 10 31 92 Initial Formation
	Gr Csg. set @/ w/sx. Cmt Circ.? by	Subsequent Workover or Reconditioning:
	Gr OD # Thd Gr Csg. set @ <u>2.200</u> w/ sx. Cmt Circ.? TOC @ by	
		Present Inj bwpd @ psi Date Present Prod bopd bwpd Date Gas mcfpd

PBD _____

ease & Wellno <u>Line and Line and Section Jacks Section</u> Count	Field / Pool
GE SON KDB to GE DF to GE	
2 ** OD ** Thd Gr Csg. set @ 2 * w/ <u>6 ** S</u> * w/ <u>6 ** S</u> * x. Cmt Circ.? TOC @ ' by	
100 w by	Subsequent Workover or Reconditioning:
# # # # # # # # # # # # # # # # # # #	
= 3×2×30 = 3×2×3 = 3×2×32	
357 S7	
5/2 · OD # Thd GrCsg.	
set @ <u>3700</u> 'w/ <u>7325</u> sx. Cmt Circ.? TOC @' by	
	Present Inj bwpd @ psi Date Present Prod bopd bwpd Date Gas mcfpd

Tron Tro	Well	<u>Data Sheet</u>
Lease & Wellno Maje	o, r / = x)	Field / Pool Example Into The No. Jour Date
Location 1933 For Section $U_{r,t} \in S_{r,r}$	eet From <u>And Albert</u> Line and <u>County</u>	Field / Pool <u>Crame Into Marker</u> Date
		,
	OD#Thd Gr,Csg. set @ w/sx. Cmt Circ.? TOC @ by	
	.000	Subsequent Workover or Reconditioning:
	e e del e e e e e e e e e e e e e e e e	
⊿	OD_#Thd GrCsg. set @'w/sx. Cmt Circ.? TOC @'by	
		Present Inj bwpd @ psi Date Present Prod bopd bwpd Date Gas mcfpd

EMSU # 679 Conversion to Injection Eunice Monument South Unit Lea County, NM

Well No.	Max Inj. Rate (BWPD)	Avg. Inj. Rate (BWPD)	Max Inj. Press. (PSI)	Avg. Inj. Press. (PSI)	System Open	System Closed
EMSU #679	1500	750	750	650		X

Data on Proposed Operation of Eunice Monument South Unit

1. Proposed average and maximum daily rate and volume of fluids to be injected:

Average daily rate of 400 BWPD Maximum daily rate of 500 BWPD

- 2. System is closed.
- 3. Proposed average and maximum injection pressures:

Average injection pressure of 350 psi Maximum injection pressure of 740 psi *

- The source of injection fluids will be from the San Andres formation initially, then produced water from Unit wells will be used as the primary source of water when the Unit becomes fully developed.
- 5. The make-up water from the San Andres formation to be used as injection fluid is compatible with the produced water from the Unit wells (See attached water analysis).
- * Until a fracture gradient is determined, maximum injection pressure will be based on a .2 psi/foot gradient.

EXHIBIT NO. <u>334</u>

Case No. <u>8397</u>

November 7, 1984

P 9 801 1448

700 W INDIANA

MONANAME TEXAS 78766 Pm 843-3234 OR 863-1040				PHONE 663-4821
RESU!	LT OF WATER			
	,	LABORATORY NO	284226	
To Kr. Stan Chapman		SAMPLE RECEIVED _	2-15-8-	
P.O. Box 670, Hoths, NM		SAMPLE RECEIVED RESULTS REPORTED_	2-20-84	
COMPANY Culf Oil Exploration & Produ	uction LEASE	Ē 		
FIELD OR POOL Company				
SECTION BLOCK SURVEY	COUNTY	STA	ATE	
SOURCE OF SAMPLE AND DATE TAKEN.				
HO. 1 Make-up water.				
No. 2 Produced water.				
NO. 3				
NO. 4				
	AND BHYSICAL	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 601 F.	11.0465	1.0051		1 10
pel When Samoked	1			
pM When Received	6.80	7.22		1
Bicarbonete es HCO3	964	1,830		
Supersaturation as CaCO3	75	120		
Undersaturation as CaCO3	<u> </u>			i
Total Heroness as CaCO3	5',400	800		
Catcum as Ca	1,400	144		
Magnesium as Mg	462	107		
Sacium and/ar Potassium	23,244	2,308		
Sulfate as SCa	3,432	30C		
Chieride as Cit	36,575	2,841		
Iron as Fe	0.27	7.5		
Barrum es Ba				
Turbidity, Electric				
Calor 85 Pt				
Total Solids Calculated	1 66 077	7.530		
Temperature 15.	1		·	<u></u>
Carbon Diomde Calculated	 		·	<u> </u>
Dissolvet Children Winkler	1 (00			<u> </u>
Hydroget Sulf de	600	325		
Resistivity, white at 77 F Suspensed On 4	0.126	0.935		
Filtrate Satisfa es me/		+	i	1
Volume Fritterec, mi	 			
Calcim Carbonate Scaling Tendency	NONE	NONE		
Calcium Sulfate Scaling Tendency	NONE	NONE		
tdittie Juliace Jealing Length		+		
Resurs	Reported As Milligr	Par Lirar		L
		in the above res	sults that	would indi-
cate my incompatibility when mixin				
contact us if we can be of any addi	itional ass:	istance in this	regard.	
CONTRACT OF THE CONTRACT OF TH				
				•
		EXHIF	BIT NO. <u>33</u>	6
			No. 8397	
		——— W35	ررس الم	· · · · · · · · · · · · · · · · · · ·

Waytan C. Harrin, H.A.

November 7, 1984

Geological Data Injection Zones in the

Proposed Eunice Monument South Unit

Penrose - Approx. depth 3,400'-3,800*, approx. 170 gross feet.

The Penrose is the lower portion of the Queen formation and overlies the Grayburg. The Penrose is composed of alternating layers of hard dolomite and sand lenses. The Penrose is productive of oil and/or gas, depending on structural position.

Grayburg - Approx. depth 3,500'-3,900*, approx. 490 gross feet.

The Grayburg is a massive dolomite with thin stringers of sand interspersed within it. The majority of oil production comes from intercrystalline porosity in the dolomite.

The range in depths to the top of the Grayburg is due to an asymmetrical anticlinal structure running NW to SE through the Eunice-Monument Pool. The structure dips steeply along the western and southern flanks and therefore the Grayburg top runs deeper, approximately 3,700'-3,900'. Along the axis and the gently dipping eastern flank of the anticline the Grayburg depths run at approximately 3,500-3,700 feet.

San Andres - Approx. depth 4,100'-4,500*, approx. 1,130 gross feet.

The San Andres is a massive dolomite with intercrystalline porosity, which lies directly below the Grayburg. The contact between the Grayburg and the San Andres is gradational and there is no clear marker for the top of the San Andres which can be traced across the field. The San Andres contributes very little if any oil production to the field and serves primarily as a source for injection make-up water and as a zone for salt water disposal.

There are no known faults cutting through the San Andres and Grayburg which would act as a conduit for gas, oil or injection water to seep into fresh water horizons above the injection zones in the Grayburg and San Andres.

* Depth depends upon structural position of the well.

EXHIBIT NO. 34 a. Case No. 8397

November 7, 1984-

Geological Data Fresh Water Aquifers in the Area of the Proposed Eunice Monument South Unit Lea County, New Mexico

The proposed Eunice Monument South Unit is located approximately 3/4 of a mile southwest of the Mescalero Ridge on the Eunice Plain.

The fresh water zones within the proposed Eunice Monument South Unit boundaries are the Quaternary alluvium, Pliocene Ogallala, and the Triassic Chinle and Santa Rosa formations.

The Quaternary aquifers are in recent sediments and are very localized in extent. They are made up of dune sands and sands filling channels or depressions in the underlying Ogallala. The sands are unconsolidated to semiconsolidated, fine to medium grained sands. They are found at the surface to a depth of approximately 100 feet.

The Pliocene Ogallala aquifer underlies the Quaternary alluvium and is present across the entire area but is not a major water source. The Ogalfala is a calcareous unconsolidated sand containing some silt, clay and gravel. The Ogallala is found at approximately 60-125 feet.

The Triassic Chinle and Santa Rosa aquifers are the principal fresh water bearing zones in this area. They are both fine to medium grained sandstones interbedded with red clays and silt stones. At the northern end of the proposed unit, the Chinle is at a depth of approximately 50 feet and the Santa Rosa is at about 675 feet. At the southern end of the unit the Chinle is at approximately 200 feet and the Santa Rosa is at about 1000 feet.

Below the Santa Rosa are un-differentiated Permian and Triassic red beds. These "red beds" consist of red shales and red silty sandstones, and are not known to produce fresh water.

At the base of the Santa Rosa and/or the un-differentiated Permian and Triassic "red beds" is the Permian Rustler. At the top of the Rustler is an impermeable anhydrite bed, approximately 60-70 feet thick which provides an excellent barrier against contamination from brine waters in the Permian oil producing formations. The Rustler anhydrite is at approximately 1000 feet at the northern end of the unit and approximately 1400 feet at the southern end of the unit. There are no known fresh water horizons below the Rustler anhydrite.

For the protection of all fresh water zones within the unit boundary, cement will be circulated to surface around casing on all new injection wells and producing wells converted to injection wells.

Reference - Ground Water Report 6, USGS, 1961.

EXHIBIT NO. <u>36</u>

Case No. <u>8397</u>

November 7, 1984

Chemical Analysis of Fresh Water Within The Proposed Eunice Monument South Unit Lea County, New Mexico

See attached water analysis results.

- Sample No. 1 -Unit A Section 16, T-21-S, R-36-E Livestock Water Source Ogallala Formation State Engineer's Well No. CP 00505
- Sample No. 2 -Unit D Section 10, T-21-S, R-36-E
 Domestic and Commercial Sale Source
 Triassic Chinle Formation
 State Engineer's Well No. CP 00147
- Sample No. 3 -Unit K Section 36, T-20-S, R-36-E Livestock Water Source (Not on file with State Engineer's office)
- Sample No. 4 -Unit O Section 17, T-21-S, R-36-E Livestock Water Source Ogallala Formation (Not on file with State Engineers Office)

EXHIBIT NO. <u>37</u>

Case No. <u>8347</u>

November 7, 1984

P Q 80X 1466 DETER SAST SHAHANOM

700 W INDIANA

MIDLAND TEXAS 78701 PHONE 483-4821 RESULT OF WATER ANALYSES

		LABORATORY NO	284225	
o Mr. Stan Chapman		SAMPLE RECEIVED	2 15 2/	
P.O. Box 670, Hobbs, NM		RESULTS REPORTED	2-20-8/	
P.O. BOX 670, 1100003, Att		ACSOC IS NET GATE.	·	
COMPANY Gulf Oil Exploration & P	roduction . e.e.	-		
COMPANY GUIT OUT EXPENSE	CEASE			
FIELD OR POOL COMPANY SECTION BLOCK SURVEY	COUNTY	ς.	TATE	
OURCE OF SAMPLE AND DATE TAKEN.				
NO. 1 Fresh water (sample #1).				
NO. 1 Fresh water (sample #2).				
NO 2 Fiesh water (adapte 12).				
NO. 3 Fresh water (sample #3).				
NO. 4				
REMARKS:				
CHEMIC	AL AND PHYSICAL	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0047	1.0020	1.0022	
pri When Samored				
am When Received	7.56	8.20	8.27	
Bicarbonate as HCO3	212	494	476	
Supersaturation as CaCO3				
Undersaturation as CaCO3				
Total Hardness as CaCO3	1,680	75	1 68	
Carcium as Ca	376	16	15	
Magnesium as Mg	180	8	7	
Sodium and/or Potassium	744	289	413	
Sulfate as SO4	1,492	186	300	
Chioride as C:	1,115	60	138	
fron as Fe	0.31	1.3	1.3	
Barrum as Ba				
Turbidity, Electric	1			
Color as Pt		1 065	1 201	
Total Solids Carculated	4,119	1,065	1,391	
Temperature 1F				
Carbon Dioxide Calculated				
Dissolved Oxigen Winkler			0.0	
Hydrogen Sulf de	0.0	0.0	5.50	
Resistivity, ohms/m at 771 F.	1.60	8.10		
Suspended Oil			1	
Filtraple Soice as me/				
Votume Filtered, ml		12	42	
Carbonate, as CO3			,	
	<u> </u>			
9	suits Reported As Millig	rams Per Liner	<u>!</u>	
Additional Determinations And Remarks Plea	and contact us	if we can be of	f any assista	nce in in-
		II WE CAN DE U		
terpretation of the above resul	L3.			
				
				

Farm Na. 3

Waylan C. Martin, M.A.

UNICHEM INTERNATIONAL

401 NORTH LEECH

P.O BOX1499

HORBS, NEW MEXICO 88240

COMPANY : GULF OIL

DATE : 9-28-84

TIELD.LEASE&WELL SECTION 17-T215-R36E UNIT O

SAMPLING POINT: WELLHEAD-FRESH WATER SAMPLE

DATE SAMPLED : 9-27-84

SPECIFIC GRAVITY = 1 TOTAL DISSOLVED SOLIDS = 1055 PH = 7.21

		ME/L	MC/L
CATIONS			
CALCIUM TAGNESIUM FODIUM	(CA)+Z (MG)+Z (NA).GALC.	4 . 4 3 . 8 7 Z	88.1 46.1 167.
ANIONS			
PICARBONATE LARBONATE LYDROXIDE SULFATE LHIORIDES	(HCO3) - 1 (CO3) - 2 (OH) - 1 (SO4) - 2 (CL) - 1	4 6 0 0 5 . 8 5	280 0 0 282. 190
DISSOLVED CASE	s		
ARBON DIOXIDE YDROCEN SULFIDE XYCEN	(CO2) (H25) (C2)	NOT RUN NOT RUN NOT RUN	
RON(TOTAL) BARIUM BANGANESE	(FE) (BA)+2 (MN)	o NOT RUN	1.4

ONIC STRENGTH (MODAL) = .023

Proposed Eunice Monument South Unit Lea County, New Mexico

Affirmative Statement

Gulf Oil Corporation has examined available geological and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

EXHIBIT NO. 38 Case No. 8397

EMSU # 679 Conversion to Injection Eunice Monument South Unit Lea County, NM

Surface Land Owners

Ms. Billie Sartin 223 Moore St. Sulfur Springs, TX 75480

Offset Operators

Conoco, Inc. One Post Oak Central 2000 Post Oak Blvd., Suite 100 Houston, TX 79705-4500

Arco Permian P.O. Box 1610 Midland, TX 79702

Texaco E&P, Inc. P.O. Box 3900 Midland, TX 79702

Collins & Ware, Inc. 508 W. Wall, Suite 1200 Midland, TX 79701

D. Hartman 500 N. Main St. Midland, TX 79701



Chevron U.S.A. Production Company P.O. Box 1150 Midland, TX 79702

September 16, 1997

REQUEST TO PUBLISH LEGAL NOTICE

Hobbs News-Sun 201 N. Thorp Hobbs, NM 88240

Attention: Classified Department

Dracy Love

Chevron U.S.A. Production Company requests that you publish the attached notice in your newspaper, one time only, as soon as possible.

Please mail the invoice to the letterhead address, attention: Tracy Love. Also, please attach a copy of the notice as run in your newspaper and an affidavit certifying publication of the attached notice and the date of publication.

Your prompt assistance in this matter will be greatly appreciated. Questions may be directed to Mr. Tracy Love at (915) 687-7645.

Sincerely,

Tracy Love

Petroleum Engineer

TL/ndm Attachment

LEGAL NOTICE (DATE)

Chevron U.S.A. Production Company has applied to the Oil Conservation Division of the State of New Mexico for approval to convert #679 to an injection well in their Eunice Monument South Unit. This well is designed to improve the efficiency of the waterflood pattern and enhance the production of the EMSU secondary recovery project. This well is located in Section 8, Unit D, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Water will be injected into the unitized interval of the Eunice Monument Grayburg-San Andres Pool which has an upper limit of 100 feet below mean sea level of the top of the Grayburg formation, whichever is higher, to a lower limit being the base of the San Andres formation. Injection will be at an expected maximum rate of 1500 barrels of water per day and an expected maximum pressure of 750 pounds per square inch. Persons wishing to contact Chevron U.S.A. should direct their inquiries to Tracy Love, Chevron U.S.A., P. O. Box 1150, Midland, TX 79702, phone (915) 687-7645.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501 within 15 days of this notice.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I,	KATHI	BEARDEN

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of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

I. L		P
of	1	<u>.</u>
		weeks
Beginnir	ig with the is:	sue dated
S	eptember 23	1997
and endi	ng with the is	
Se	eptember 23	1997
Hatt	ri Beara	%
Sworn	Publisher and subscribe	
me this	23rd	day of

Jodi Gensa

September

Notary Public.

My Commision expires October 18, 2000 (Seal)

LEGAL NOTICE September 23, 1997

Chevron U.S.A. Production Company has applied to the Oil Conservation Division of the State of New Mexico for approval to convert #679 to an injection well in their Eunice Monument South Unit. This well is designed to improve the efficiency of the waterflood pattern and enhance the production of the EMSU secondary recovery project. This well is located in Section 8, Unit D, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Water will be injected into the unitized interval of the Eunice Monument Grayburg-San Andres Pool which has an upper limit of 100 feet below mean sea level of the top of the Grayburg formation, whichev er is higher, to a lower limit being the base of the San Andres formation. Injection will be at an expected maximum rate of 1500 barrels of water per day and an expected maximum pressure of 750 pounds per square inch. Persons wishing to contact Chevron U.S.A. should direct their inquiries to Tracy Love, Chevron U.S.A., P.O. Box 1150. Midland, Tx 79702, phone (915) 687-7645.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501 within 15 days of this notice. #15433

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

01102480000 02509754 Chevron U.S.A. Production Comp P.O. Box 1150 a/c# MIDLAND, TX 79702