STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF GARY L. BENNETT FOR PRESSURE MAINTENANCE PROJECT, LEA COUNTY, NEW MEXICO

CASE NO. 9972

CERTIFICATE OF MAILING

AND

COMPLIANCE WITH ORDER R-8054

In Accordance with Division Rule 1207 (Order R-8054) I hereby certify that on June 5, 1990, I caused to be mailed by certified mail return-receipt requested notice of this hearing and a copy of the Application for the above referenced case along with the cover letter, at least twenty days prior to the hearing set for June 27, 1990, to the parties shown in the Application as evidenced by the attached copies of return receipt cards.

W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me this <u>76</u> day of June, 1990.

Notary Public

My Commission Expires:

7-6-91

BEFORE EXAMINER CATANACH

OIL CONSERVATION DIVISION

Bennett EXHIBIT NO. 6

CASE NO. 9977

	A CONTRACTOR	-31-5135Y	o 1 and	2 when	additi	onal s	ervic	es ar	e des	ired,	and comple will prevent	ete iter	ns			
i ♥ ∄3 and •	4	A 1875 M. 1875	- 1 TO!!	Canco on	the ret	verse S	iiae. i	ranur			بميزاماء محمد	ad to a	nd. I∜-∞			
9 and Put your ad from being the date of	Idress in th	e "RETU you. <u>The</u>	return r	eceipt fee	will pr	ovide y	you th	he nai availa	me of ble. C	onsul	postmaste	r for fe	es			
the date of and check	delivery. F	or addition	onal tees al servici	e(s) reque	sted.		droce	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		Restr	icted Delive	ery				
1. A Sho	w to who	m delive	red, date ixtra cha	e, and add rge)	resse	e s au				(Extro	icted Delive charge)	12.				
3. Article	Addresse		19 1			2.84	4.	Artic	le Nu	mber	000					
3. Atticle	Bureau	. of	T.and	Mana	ager	nent	P				989	100	7124			
USA	gureau	1057	Hand	16.00			Ty	pe of	Serv	ice:	Insured					
P.O.	Box 211,	TOJ!	201						fied		LI COD 独			Ì		
ROSW	BTT.						2 43	Expr	ess M	ail	for Mer	chandia	e 🕶			
1000							AIN	ways	obtain	signa	ture of addr	essee :				
	Benn	ett s	7	NTK:			or	agent	and I	DATE	DELIVERED.	Maria Con		1		
Gary	iture - A	ddressee	2.4	in the	***	45.2	8.	Adc	resse	e's A	ddress (Ol	VLY IJ				
5. Signa	iture — A		er ver			33-20-2		requ	(E) (E)	FRI	ICF/	raje sa Marka		[] 		
A Sign	wirel - A	gent	海ノなく		e de fin				XY		ZXX			H		
6. Signa			製造		50			狐	UL.	HB.	Billi		1	*		
7 Date	of Delive	ry		ent es la												
	Harry .	<i>a</i> (0)	29	O						STICRET	IDN DE	CEIPT			
ne Form	3811; A	pr 1989		1100	PO, 19	9-238-	n•			OME	SIIUREIG					
	A COLUMN			3.69			s in the	المراجع والمراجع					* * * *	3) 3		
			189	ad 2 divbe	n edd	itional	serv	ices	are d	esired	and com	plete it	ems	ā (1		
SENI 3 and	JEH: Com	iplete ite		1		ue A	cide	Fail	ure to	do thi	, and com	nt this	card	3		
I Put vour	address in	THE SUPER	OHIT	Separate C					amá c	of that	nerenn deliv	ered to	and I	1		
the date	of delivery.	For addi	ional rec	(-)	actod	666	1. 178 L.	5. 5		100		a jaran	\$	4		
i. Gk Si	how to wh	om deliv	ered, da	ite, and a	idress	ee's a	ddres	ss.	2. L	∫ Hes . (Ext	tricted Deli ra charge)	Very	10	. 1		
	le Address		Tarra Ci	1	Ne die k		4.	Art	icle N	umbe	(West the	12.00°	的主义			
1. 1. 2. 16. 1. 16. 16. 16. 16. 16. 16. 16. 16.	k Ope	Perk (Ital) All Value		orn k		167	P.	5,7	2 1	24	986			5. 5.1		
Prec	Box	011									Y- NA		A STATE OF THE STA			
Proc	kenri	300	Tex.	as 76	024			- 5000	11 11 11 11	1200	tall Insure	d de la				
DIEC	Kelliti		A Jean			ut 🔑	E		tified ress	1.3	Return	Receip	it w	3		
						an.		. 7		Own .	ature of add	rchand	A c			
Gary	Benn	ett	W'	тĸ	44			rager	t and	DATE	DELIVERED	ಾರ್		il i		
_	1 1 15 15	1. 10 \$1,41 St.		- 1000 (400) - 1000 かん		20 M					Address (Q		N3 235			
	ature — A	idulesse:					¥.				fee paid) 🐧					
X	afµre — A	gent	od Sida			the second	3		(1997年) 第7年			3000 - N		*		
x ()	T. L	de	ned Ve	1%		1,		4	TO.			F	_(_	112	2 1	
7 Date	of Delive	rv II IN		1000	O Jak	4			14	- 1		<u>L</u> L		<u> </u>	JL	. L_
1. 32 . 34		JUN	11	コフリ	11			(A) (A)		7		7	1346.37	7		
PS Form	3811.	Apr. 1989	3.5	*us,G	P.O. 19	89-238-	815	1		OOME	STIC RET	JRN R	ECEIPT			
	. 2 ·	250			e ca			g strates.		: 3)		7.2				
1																
1,	S Form 3	800, Jur	e 1985		•		⊹ U.S	.G.P.O	. 1989-	234-555	;					
F		<u> </u>		ठ क्रा	ιχ	္စ	g	P	St	Sent T)						
1	Ga	ostr OT A	eturi ate.	Restricted De Return Receipto whom and	Secre	Certified Fee	Postage	Po.	85 64	int to	RE(
Į	ĸ.	ia ż	an R	∄a cted	ğ	ă	ĕ	State	22	R T	_ ZH	ס				
		TOTAL Postage an Postmark or Date	Return Receipt sho Date, and Address	Restricted Delivery Return Receipt short to whom and Date I	Special Delivery Fee	8		Power,	Street and No. 2828 Di	ngram	IPT FOF NO INSURANC NOT FOR IT	۲ŋ				
	Ве)ate	dres	Date Date	ry F	١	ļ	, Z	<u>)</u> .	۲	FOR I	7				
	ä	~ 3	νŏ	<u> </u>	ایوا	- 1	- 1	UH OH	<u>p</u>	\mathbf{e}	1 2 E & X					

PS Form 3800), June	1985	i				⊹ U. S	s.G.P.O		234-555	;
Gar' Ben lett	TOTAL Postage and Fees	Return Receipt showing to whom, Date, and Address of Delivery	Return Receipt showing to whom and Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	Pho State and ZIP Code	No. Diamond	Sent to Ingram Oil & Gas	RECEIPT FOR CERTIFIED IND INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)
WTK	\$ 2.80		.90			• 85	⁸ 1.05	TX 7522	Shamrock	Ø	D MAIL
								25			

유민류

3 **6** F

1. Article Number	
Put your address in the "RETURN To receipt fee will provide you the provide you the provide you the provide you the provide you. The return receipt fee will provide you the provide you the provide you the provide you have a available. Consult postmaster to from being returned to you. The return receipt fee will provide you the provide you the provide you the provide you have a addressed and research addressed and research the provide you the your provide you the provide you the your provide you they are your provide your pr	
the date of delivery. For additional service(s) requested. the date of delivery for additional service(s) requested. and check box(es) for additional service(s) requested. (Extra charge) 1. Show to whom delivered, date, and addressed a address. (Extra charge) 4. Article Number	
and check box(es) for additional service and addresses a searce (Extra charge) (Extra charge) 1. (Extra charge) 4. Article Number	
3. Article Addressed to: P 572 124 990	
Mr. Jerry Sexton Mr. Jerry Sexton Registered Registered	
Oil Conservation Table 1 Table 2 Table 2 Cooperation Table 2	
P.O. Box 1980 Hobbs, New Mexico 88240 Always obtain signature of addressee.	
Hobbs, New Mexico 88240 Always obtain signature of addressee or seems of addressee or seems of addressee or seems of addressee or seems of addressee.	
Pannett Address WILL	
Garry Bearing Addresses 5. Signature Addresses	
x ////////////////////////////////////	
8. Signature - Agent	
X Polivery (2	
7. Date of Delivery 6 790 DOMESTIC RETURN RECEIPT	
PS Form 38141 Apr. 1929 - 195 (1929)	u.
The state of the s	
SENDER: Complete Items 2 and 2 when additional services are desired, and complete Items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side Failure to do this will prevent this card and the person delivered to end the person delivered	
SENDER: Complete Items 2 and 2 and 4 and 4 and 4 and 4 and 4 and 5 and 4 and 5 and 4 and 5 and 5 and 5 and 6 and 6 and 6 and 7 and 7 and 7 and 8 and 9	
Put your address in the "RETURN TO" Space on the reverse side Fallium of the person delivered to all Put your address in the "RETURN TO" Space on the reverse side Fallium of the person delivered to such that the return receipt fee will provide you the name of the person delivered to fees put your address in the return receipt fee will provide you the name of the person delivered to such that the reverse side Fallium of the person delivered to such that the person delivered to all put your address. Put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to all put your address in the person delivered to your the name of the person delivered to your the name of the person delivered to all put your address in the person delivered to your the name of the person delivered to your the name of the person delivered to your the name of the person delivered to all put your address and address a	
from being returned to you. The return retur	

3. Article Addressed to: P 572 124 988	
Chevron USA, Inc. Chevron USA, Inc. Registered Registered COO	
「「「・ 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「	
Midland, Texas: Express Mail For Merchandise Always obtain signature of addressee Always obtain signature of addressee	60
1 The Control of the	430
Carry Renneuc	
5. Signature – Addressee	CIDI
X	EGIDL
6. Signature – Agent	Ed M
7. Date of Delivery U.N. 1.1.1990	
JUN 1.2 JUN 1.	
The state of the s	ų.
and complete items	
SENDER: Complete items 1 and 2 when additional services are desired and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card the province of the person delivered to and the name of the person delivered to and the person delivered to and the province of the person delivered to and the person delivered to and the person delivered to an additional fees the following services are available. Consult postmaster for fees the person delivery services are available.	
SENDER: Complete items 1 and 2 when additional services and 4. 3 and 4. Put your address in the "RETURN TO", Space on the reverse side. Failure to Go this will prevent this card to and 7 your address in the "RETURN TO", Space on the reverse side. Failure to Go this will prevent do and 1 your address in the "RETURN TO", Space on the reverse side. Failure to Go this will prevent did to and 1 your your address in the "RETURN TO", Space on the reverse side. Failure to Go this will prevent this card to and 4. Put your address in the "RETURN TO", Space on the reverse side. Failure to Go this will prevent this card to and 4. From being returned to you. The return receipt fee will provide you the name of the person delivered for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the following services are available; Consult postmaster for fees the feet of delivery.	
Put your address in the HE The return receipt fee will be returned to you. The return receipt feel will be returned to you. The return receipt feel will be returned to you. The return receipt feel will be returned to you. The return receipt feel will be returned to you. The return receipt feel will be returned to you. The return receipt feel will be returned to yo	
the date of delivery. For additional service(s) requested the date of delivery for additional service(s) req	
1. Show to Wholl os (Extra charge) 4 Article Nation 987	
13. Atticle Table 1997 1997 1997 1997 1997 1997 1997 199	
Mewbourne Oil Co. Suite 1270 Type of Service Engineer Co.	
400 W 1111 79701	
Midland, Teaching of addresses	
or agent and DATE DELIVERED.	5
Carry Bennett WIK 8. Addressee's Addressee's Addressee and fee paid	
5. Signature — Addressee	
1.5 Signature And	
LX Y III CX PO	(368 L) 20
5. Signature - Agent 500 500 500 500 500 500 500 500 500 50	
LANG MICON PORTION OF THE PROPERTY OF THE PROP	EIPT

STATE OF NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 9972 Order No. R-9240

APPLICATION OF GARY L. BENNETT FOR A PRESSURE MAINTENANCE PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on June 27, 1990, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this <u>31st</u> day of July, 1990, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Gary L. Bennett, seeks authority to institute a pressure maintenance project on its Cavalcade Federal "21" Lease comprising the E/2 SW/4 and SE/4 of Section 21, Township 18 South, Range 32 East, NMPM, Lea County, New Mexico, by the injection of water into the Querecho Plains-Queen Associated Pool through the perforated interval from approximately 4088 feet to 4130 feet in its Cavalcade Federal "21" Well No. 4 located 400 feet from the South line and 660 feet from the East line (Unit P) of said Section 21.

CASE NO. 9972 Order No. R-9240 Page -2-

- (3) The applicant proposes to maintain reservoir pressure in the Querecho Plains-Queen Associated Pool by the injection of water into the Penrose member of the Queen formation within the wellbore of its Cavalcade Federal "21" Well No. 4 as described above.
- (4) The proposed pressure maintenance project should result in the recovery of otherwise unrecoverable oil from the Querecho Plains-Queen Associated Pool, thereby preventing waste.
- (5) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (6) The evidence presented indicates that within the proposed injection well's area of review, there are two wells which may not be adequately cemented or plugged back in a manner adequate to confine the injected fluid to the proposed injection zone, these being the Cavalcade Federal "21" Well Nos. 1 and 3 located, respectively, 660 feet from the South line and 1650 feet from the East line (Unit O), and 1980 feet from the South line and 660 feet from the East line (Unit I), both in said Section 21.
- (7) Prior to commencing injection operations, the applicant should be required to perform remedial cement operations and remedial plug back operations on the wells described in Finding No. (6) above in a manner satisfactory to the supervisor of the Division's Hobbs district office.
- (8) In addition, the evidence presented indicates that within the SW/4 SW/4 of Section 22, Township 18 South, Range 32 East, NMPM, there apparently exists a plugged and abandoned well of which the Division has no records, and it is unknown whether such well has been plugged in a manner which will prevent the migration of fluid from the injection formation.
- (9) The applicant currently operates an additional Queen producing well, the Federal "Q" Well No. 4 located 660 feet from the South line and 710 feet from the West line (Unit M) of said Section 22 which is located in close proximity to said plugged and abandoned well.

CASE NO. 9972 Order No. R-9240 Page -3-

- (10) The applicant should not be required to re-enter and replug said well at this time, provided however, that the applicant should be required, as long as pressure maintenance operations are being conducted, to produce its Federal "Q" Well No. 4 so as to draw down the pressure in the Queen formation.
- (11) Injection into the proposed injection well should be accomplished through 2 3/8-inch internally plastic-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation; the casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.
- (12) The injection well or system should be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 817 psi.
- (13) The Division Director should have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in migration of waters from the Querecho Plains-Queen Associated Pool.
- (14) Prior to commencing injection operations into the proposed injection well, the casing should be pressure tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.
- (15) The operator should give advance notification to the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment, of the mechanical integrity pressure test, and of the conductance of any remedial cement or plug back operations in order that the same may be witnessed.
- (16) The project allowable should be equal to top unit allowable for the Querecho Plains-Queen Associated Pool times the number of developed (production or injection) proration units within the project area.

CASE NO. 9972 Order No. R-9240 Page -4-

- (17) The project should be designated the Cavalcade Queen Pressure Maintenance Project.
- (18) The application should be approved and the project should be governed by the provisions of Rules 701 through 708 of the Oil Conservation Division Rules and Regulations.

IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Gary L. Bennett, is hereby authorized to institute a pressure maintenance project on its Cavalcade Federal "21" Lease comprising the E/2 SW/4 and SE/4 of Section 21, Township 18 South, Range 32 East, NMPM, Lea County, New Mexico, by the injection of water into the Querecho Plains-Queen Associated Pool through the perforated interval from approximately 4088 feet to 4130 feet in its Cavalcade Federal "21" Well No. 4 located 400 feet from the South line and 660 feet from the East line (Unit P) of said Section 21.
- (2) The project is hereby designated the Cavalcade Queen Pressure Maintenance Project.
- (3) The project allowable shall be equal to top unit allowable for the Querecho Plains-Queen Associated Pool times the number of developed (production or injection) proration units within the project area.
- (4) Prior to commencing injection operations, the applicant shall be required to perform remedial cement operations and remedial plug back operations on the Cavalcade Federal "21" Well Nos. 1 and 3 located, respectively, 660 feet from the South line and 1650 feet from the East line (Unit O), and 1980 feet from the South line and 660 feet from the East line (Unit I), both in said Section 21, in a manner satisfactory to the supervisor of the Division's Hobbs district office.
- (5) The applicant shall further be required, as long as pressure maintenance operations are being conducted, to produce its Federal "Q" Well No. 4, described in Finding No. (9) above, so as to draw down the pressure in the Queen formation.

CASE NO. 9972 Order No. R-9240 Page -5-

- (6) The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (7) Injection into the proposed injection well shall be accomplished through 2 3/8-inch internally plastic-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation; the casing-tubing annulus shall be filled with an inert fluid and a gauge or approved leak detection device shall be attached to the annulus in order to determine leakage in the casing, tubing or packer.
- (8) The injection well or system shall be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 817 psi.
- (9) The Division Director shall have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in migration of waters from the Querecho Plains-Queen Associated Pool.
- (10) Prior to commencing injection operations into the injection well, the casing shall be pressure tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.
- (11) The operator shall give advance notification to the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment, of the mechanical integrity pressure test, and of the conductance of any remedial cement or plug back operations in order that the same may be witnessed.
- (12) The operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing, casing, or packer in the injection well, the leakage of water or oil from or around any producing well, or the leakage of water or oil from or around any plugged and abandoned well within the project area and shall take such steps as may be timely and necessary to correct such failure or leakage.

CASE NO. 9972 Order No. R-9240 Page -6-

- (13) The applicant shall conduct injection operations in accordance with Division Rule Nos. 701 through 708 and shall submit monthly progress reports in accordance with Division Rule Nos. 706 and 1115.
- (14) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

designated.

S E A L

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director