CASE 5655: APOLLO OIL COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO

CASE NO.

5655

APPlication, Transcripts, Small Exhibits,

ETC.

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico March 31, 1975

EXAMINER HEARING IN THE MATTER OF: Application of Apollo Oil Company for CASE salt water disposal, Lea County, 5655 8 New Mexico. 10 BEFORE: Richard L. Stamets, Examiner 11 TRANSCRIPT OF HEARING APPEARANCES William F. Carr, Esq. For the New Mexico Oil Legal Counsel for the Commission Conservation Commission: State Land Office Building Santa Fe, New Mexico 17

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General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

For the Applicant:

W. Thomas Kellahin, Esq. KELLAHIN & FOX Attorneys at Law 500 Don Gaspar Santa Fe, New Mexico

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MR. KELLAHIN: Tom Kellahin of Kellahin and Fox appearing on behalf of the applicant and I have one witness to be sworn.

(THEREUPON, the witness was duly sworn.)

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called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Will you please state your name and occupation?
- A. Allen Ralston, Operator of Apollo Oil Company.
- Q You are the operator and owner of Apollo Oil Company and you are doing business under that name, is that correct?
 - A. Yes, sir.
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- Q. And are you familiar with the facts surrounding this particular application?
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MR. KELLAHIN: If the Examiner please, are the witness's qualifications acceptable?

MR. STAMETS: They are.

- Q. (Mr. Kellahin continuing.) Mr. Ralston, how do you spell your last name?
 - A. R-a-1-s-t-o-n.
- Q Would you please refer to what has been marked as Exhibit Number One and identify it?
- A. It is a plat of the proposed injection well and the surrounding acreage and the surrounding injection wells or disposal wells are outlined in green. The producing wells in the Jalmat field are outlined in red. The Langlie-Mattix on the right are outlined in a purple.
 - Q. What is your reason for seeking a disposal well?
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 - Q What would be the source of the disposal water?
 - A. From the produced water on this lease.
 - Q. How many wells contribute water to the lease?
- A. Well, presently there are three and in the end result there should be four.
- Q In your opinion, what do you anticipate the daily volume of water to be disposed?
 - A. Initially about two hundred and fifty barrels a day.
 - Q And will that be under vacuum or under pressure?

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A. Vacuum.

- Q And have you discussed or sought the possibility of using offset disposal wells to take your water?
- A. Yes, I have contacted Antweil and I have contacted Ralph Lowe and Continental and verbally Continental and Antweil declined to take my water. I have a letter here from Marlowe, which is the name that Ralph Lowe runs under now and they declined also.
- Q All right, sir, please refer to Exhibit Number Two and identify it?
- A. It is a proposed sketch of the way the well is now in operation and how it will be in operation during the disposal.
 - Q What will be the disposal interval?
- A. It will be between thirty-two, eighty-nine and thirty-three, sixty-three.
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 - A. Into the Seven Rivers open hole.
- Q. How will you monitor this particular well to detect any leakage?
- A. I will have a pressure gauge and a vacuum gauge on the annulus of this well.
 - Q. And how will you fill the annular space?
- A. We will fill it with a packer fluid to prevent corrosion.
 - Q. And you will be using plastic-line tubing?

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A.	Yes,	sir.
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- Q. Please refer to Exhibit Number Three and identify it?
 - A. It's a water analysis.
 - Q I'm sorry, I've renumbered it for you.
- Q. Okay, Three is -- we logged this well to determine just what we had because we didn't get any records when we purchased this property and it has apparently been drilled deeper than the Commission records indicated and all of the perforations by indication of the electric log have been squeezed off and it had been used as a disposal well previously.
 - Q All right, Exhibit Number Four now?
- A. Exhibit Number Four is the original information that was turned in to the Commission on the well.
 - Q All right, and Exhibit Number Five?
- A. Exhibit Number Five is a water analysis run by United Chemical, Hobbs, New Mexico and I didn't get it on the proper form but they will verify this.
- Q Exhibit Number Six is the letter you have already referred to, would you identify that again, please?
- A. This is a letter from Marlowe, Incorporated where they declined to take my water from this lease.
 - Q And Exhibit Number Seven?
- A. It is an electric log run by GO International indicating the cement and the casing shoe and the TD and that

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- Q In your opinion, Mr. Ralston, will the approval of this application be in the best interest of conservation, the prevention of waste and the protection of correlative rights?
 - A. Yes, sir.
- Q. Were Exhibits One through Seven either prepared by you directly or complied under your direction and supervision?
 - A. Yes, sir.

MR. KELLAHIN: We move the introduction of Exhibits One through Seven.

MR. STAMETS: These exhibits will be admitted.

(THEREUPON, Applicant's Exhibits One through Seven were admitted into evidence.)

MR. KELLAHIN: That concludes our direct examination

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Ralston, what type of a log do you have here, Exhibit Number Seven?

A. It's a -- well, they didn't even put on there. It's just a standard log. It's an electric log but I can't tell you without consulting GO International.

Q. Perhaps you would be able to send us a little more information concerning this log subsequent to the hearing?

MR. KELLAHIN: We will be happy to.

- Q. (Mr. Stamets continuing.) Will the water be going back into the same zone that you produce from?
- A. No, sir, it will be going into the Seven Rivers, which is about one hundred and fifty feet below the production in this area.
- Q If you are at some future date required to use pressure on this system would you be willing to limit the pressure such that the bottom-hole pressure is no more than seven-tenths of a pound per foot?
 - A. Yes, sir.
- Q. How often will somebody be out there to check these gauges to make sure there is no leakage in the tubing or the packer in the well?
- A. They should be checked daily but I will have a report each week from the pumper.
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MR. STAMETS: Okay. Any other questions of the witness? He may be excused.

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REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F. Morrish, C.S.R.

the Exeminer hearing of Case No. 5053, heard by me on 373, Examiner

New Mexico Oil Conservation Commission

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State Land Office Building

Santa Fe, New Mexico

For the Applicant:

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Attorneys at Law 500 Don Gaspar Santa Fe, New Mexico

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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

PHIL R. LUCERO April 21, 1976



STATE GEOLOGIST EMERY C. ARNOLD

DIRECTOR LAND COM
JOE D. RAMEY PHIL R.
April 2

Other

r. Tom Kellahin ellahin & Fox	Re:	CASE NO ORDER NO.		
ttorneys at Law ost Office Box 1769 anta Fe, New Mexico		Applicant	:	+ .7 + .7
		Apollo	Oil Comp	any
Dear Sir:			٠	
Enclosed herewith are Commission order recen				
Yours very truly, JOE D. RAMEY Director				
				,
JDR/fd				
Copy of order also sen	it to:			
Hobbs OCC X Artesia OCC Aztec OCC		·		

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5655 Order No. R-5196

APPLICATION OF APOLLO OIL COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 31, 1976, at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 20th day of April, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Apollo Oil Company, is the owner and operator of the Brown Well No. 5, located in Unit E of Section 25, Township 25 South, Range 36 East, NMPM, Jalmat Gas Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the lower Yates-Seven Rivers formation, with injection into the open-hole interval from approximately 3289 feet to 3363 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3150 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure and/or vacuum gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (5) That if injection into said well should be under pressure, the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 825 psi.

-2-Case No. 5655 Order No. R-5196

- (6) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) That 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.
- (8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Apollo Oil Company, is hereby authorized to utilize its Brown Well No. 5, located in Unit E of Section 25, Township 25 South, Range 36 East, NMPM, Jalmat Gas Pool, Lea County, New Mexico, to dispose of produced salt water into the lower Yates-Seven Rivers formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3150 feet, with injection into the open-hole interval from approximately 3289 feet to 3363 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure and/or vacuum gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

- (2) That if injection into said well shall be under pressure, the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 825 psi.
- (3) That if injection into said well is under a vacuum, the operator shall conduct an annual pressure test of the casing-tubing annulus to determine leakage of the casing, tubing, or packer in said well.
- (4) That the operator shall notify the Hobbs office of the Commission of the date and time of such pressure tests in order that they may be witnessed by a Commission representative.
- (5) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

-3-Case No. 5655 Order No. R-5196

- (6) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (7) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

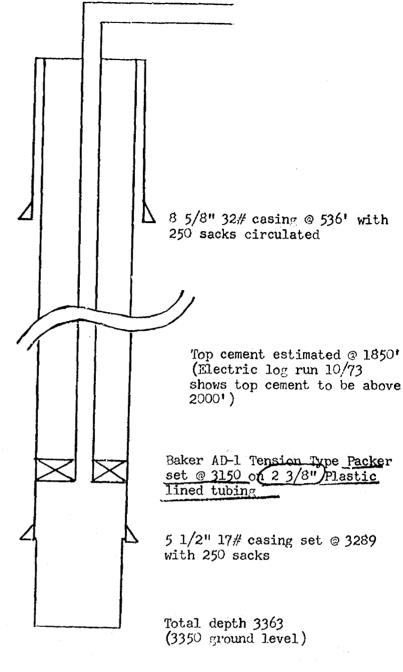
PHIL R. LUCERO, Chairman

FMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

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Proposed for: Apollo Cil Company
Brown No. 5

Brown No. 5 1650' FNL & 990' FWL Sec. 25, T25S, 136E Jalmat Pool Lea County, New Mexico

Asallo Exercis Case NO. 575 Submitted by___ Hearing Date 31 Mar 71

DISTRIBUTION HITAFE FILE		NEW HEXICO OIL CONS	ERVATION COMMISSIO	ОМ	Form C-1 Supersede C-102 and Ellective	s Old C-103	
C.S.G.S. LAND OFFICE OPERATOR					State	ype of Lease Fe Gas Lease No.	. 🖹
ICO NOT USE THIS F	SUNDRY NOTICE	ES AND REPORTS ON	WELLS ACK TO A DIFFERENT MESER H PROPOSALS.)	voja.	7. Unit Agree	ment Name	
OIL GAS WELL III G	L OTHER-				8. Form or Le		
Apollo Oll Co	about.		·		Brocas	ase trame	
. Address of Creater	A Gas Services	, Inc., Box 763,	Hobbs, Nolls 60	21,0	9, Well No.		
Location of Well	1650	LET FROM THE LIBERT		FEET FAC	Jalmst	Pool, or Wildcat	
THE HOST	0.5	TOWNSHIP 258	AANGE 36E	NMPI			
		S. Elevation (Show whether I	DF, RT, GR, etc.)		12, County		H
ę. 		te Box To Indicate Na	· · · · · · · · · · · · · · · · · · ·	·			777
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Brown Honl	5-36
Brown	
11 -	R.
	Well No==
- line Spud 9/16/59	Com 9/27/50
y 3184 Total Depth 3289	PRTO 2204
Tubular Record:	7010
8 5/8 32 set @	536 w/ 250
5 1/2 175 set @ 3	289 w/ 250
	3X
3267-69. 3278-80 1 000	
Remarks:	
From Antweil to Standard 9,	/8/60
3	Spud 9/16/59 Total Depth 3289 Tubular Record: 8 5/8 32 set @

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Agollo EXHIBIT NO. 4
CASE NO. 5765
Submitted by RALSTO.
Hearing Date 31 MM 71

WATER ANALYSIS

Milligrams per liter:

Calcium	342
Magnesium	212
Sodium	1810
Bicarbonate	1903
Sulfate	438
Chlorides	2597
Total dissolved solids	7302
Iron Count	2.4 ppm
рН	6.7
Specific Gravity	1.005
Scale deposits:	
Calcium Carbonate positive @ 86° F	•70
Calcium Sulfate negative	·

A lot of H₂S

BEFOLD X	FORMULE STALLEDS
40. 144	n HON COMMON TRAN
Apo 110 00	41817 NO. 5
CASENO	5755
Submitted by	RALSIA
Hearing Date_	31 mm 76
_	The second secon

January 30, 1975

Nr. Alan W. Ralston Apollo Oil Company Box 1672 Hobbs, New Mexico 88240

Dear Mr. Ralston:

Re: Brown Lease
Section 27-25-36
Lea County, New Mexico

Thank you for your letter of January 23, 1975 concerning the above lease.

After consulting with my men in the field, we do not believe that our company can handle this additional volume of water at this time.

Very truly yours,

MARALO, INC.

Cecil Evans

CE/1m

Gevans

A Subsidiary of M. Ralph Lowe Inc. / P. O. Box 832 / Midland, Texas 79701 / (915) 684-7441

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Ag.//a EXHIBIT NO.

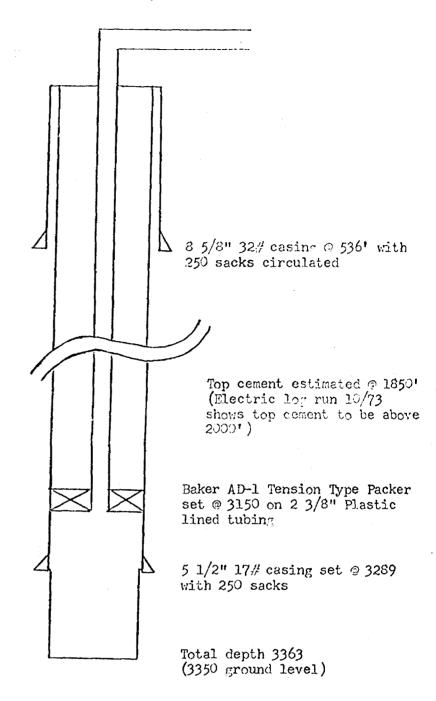
CASE NO. 5 655

Submitted by RA4576m

Hearing Date 31 man 76

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DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Apollo Cil Company
Brown No. 5
1650' FNL & 990' FWL
Sec. 25, T25S, T36E
Jalmat Pool
Lea County, New Mexico

Case 5655 Exhibit 2

1			-
- Titles Ficeives			Form C+103 Supersedes Old
DISTRIBUTION			
	NEW MEXICO OIL CONSERVA	TION COMMISSION	Effective 1-1-65
FILE			Sa. Indicate Type of Lease
LAND OFFICE			State Fee X
CPERATOR			5. State OH & Gas Lease No.
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Virgina Virgina Tamena a enna			E, Fam of Lease Name
C/O C.3 Enjoyed & C.3 Engage	Acce, Inc., La: 763, Kal	to, Italia CUELO	9. Well No.
4. Licentian of Well	FEET FROM THE LINE		10. Field and Pool, or Wildcat
		_	
THE DIE, SECTION	25 255	RANGE SSE	
	15. Elevation (Show whether DF, RT	, GR, etc.)	12. County
it. Check Approx	priate Box To Indicate Nature	of Notice Penant of Ot	har Dara
NOTICE OF INTENT			T REPORT OF:
FERFERN REMEDIAL NEAR	PLUG AND ARANDON AEMED	DIAL WORK	ALTERING CASING
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PLL OR ALTER CASING	CHANGE PLANS CASING	TEST END CENENT ICE	M Matay - A
O'MER		(8#	
		The same the same that the same that the same to be sam	
17. Describe Proposed or Completed Operations works SEE RULE 1903.	(Clearly state all pertinent details, and	give pertinent dates, including	estimated date of starting any proposed
100000000000000000000000000000000000000	0.66		
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That have to his	\$5 3 °	÷	
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12. I hereby certify that the information above is	true and complete to the best of my know	wledge and beilef.	
17 11 7	.1	•	a a la la
SIGNED 1/6 DESIA WALK	Agents Agents		82/9/7B
Orje.	Signed by		
). Remey		1.0 1974
The state of the s	7376		DATE

Case 5655 Exhibit 3

	The History on 5%	10/73	File: 25-	25-36		
Standard Production Co .		Broi	m	-	5 11 No 1	
Unit E Sec 25 Twp. 25 Rng Footoge: 1650 Ir North line & Pool Jalrat 8 Poy	ge. 36CountyLoafr NestTop of Poy	line Spud.	9/16/59 cpth _ 3289	Elev. _ Comp 9/2	_3065 27/59	
Type of Well:		02.3/		3289 320 0	, 250	
Petentiols: 80 EO, 1:00 BH, 21, hrs, pump		Treelment: 3267-69, 3278 3199-3205, 32 12,500 gal lad	-80 1,000 g	Leal act	3181-88, d: 3181-3	250
Formation Tops: A 1085, X 1210, BX 2860, Y 3		Remarks: From Antweil to Standard 9/8/60				
Dil Reports and Gas Sarvicas, Bax 763, Na55s, 1	н, <i>м.</i>				·	· · ·

Case 5655 Exhibit 4

ATER BALLYold

Hilligrams per liters

Calcium	342
Hagnesium	212
Sedjum	7470
licerbonate	1933
Sulfate	4)8
Chlorides	2547
fetal disselved solida	7302
Iren Count	2.4 999
pis	6.7
Specific Gravity	1,003
Scale deposits:	
Calcium Carbonate positive (860 F	.70
Calcium Bulfate menutive	

A lot of H2S

January 30, 1975

Mr. Alan W. Ralston Apollo Gil Company Box 1672 Hobbs, New Mexico 88240

Dear Mr. Raiston:

Re: Brown Lease Section 27-25-36 Lea County, New Mexico

Thank you for your letter of January 23, 1975 concerning the above lease.

After consulting with my men in the field, we do not believe that our company can handle this additional volume of water at this ring.

Very truly yours,

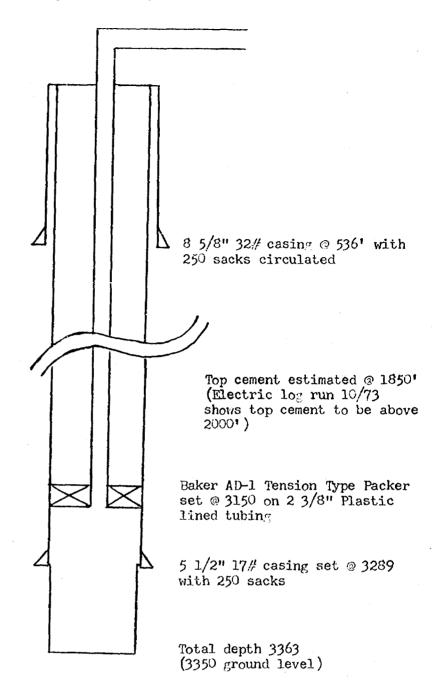
MARALO, INC.

Cecil Evans

CE/lm

7. Cubsidiary of M. Rolph Lowellac. 7 P. O. Box 832 7 Midland, Texas 79701 7 (915) 634-7441

W States II P	Continuated T. H. Stouc !! Tr	Comptilist of the Comp	Bapte (1) CE Topedo (Guir) Stori Ares (1934) O'B NECOTION TO THE	Continuedad del	Para Tagara		The state of the s	MOBIL DOE
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υ.s.	9	10	Salvy Cill 18 July 20 Cill Cill Cill 18 July 20 Cill Cill Cill Cill Cill Cill Cill Cil	A R Co. Monate be	Green Company Company	In There is a series of the se	Amaco	Ponamera 21
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Bathan Sal	E.1924	-36 15	Refres Ches Server	Shipes of 3 to combine	(Expen) thrown be: Or /r (Expen) (Company)	America (a) (construction of the construction	LANGLIE: 00 LANGLIE UNIT MOBILIOPER	10923 Floor 1 15 July 1 15
MEST	JAL State JAL State II T.H. Stavell, Tr. W.D. Dingiddie, et al., (5)	W D.D. sta	Moralo 1-9-86 Murralgir	Animali Marios eral of Grandstole Resident	the call carries (OEG	Reserve OE.G 0160975	RESERVE OIL	Mobiliosesses Mobilioses 23 Maria Salaria 23 Maria Salaria 23 Maria 23 Maria 23 Maria 23 Maria 24 Mari
SKELL) October (OPER.) State of the control of th	Skelly Skellg etcl 7 - 8 - 76 Constant Skelly Skellg etcl 7 - 8 - 76 Constant Skellg etcl 7 - 8 - 76 Constant Skellg etcl 7 - 76 Constant Skel	Feet Mind	Johnson (1) (Runystan Russin (Planer Propriet (Antalia L. C.)	Sant JAL 30	The state of the s	And frame	Francisco Programme Property American Property American Sanity Manager Property Prop
Win 5 1 W Job Unit and Anthony (2)	0el. Dige. 14 Skelly atol: 19 12788 (6 - 21 - 76)	MAT 47-50	Supremi School State of State	00 00 00 00 00 00 00 00 00 00 00 00 00	Shalps US 95 Water of US (O'garer on US)	Control of the second of the s	Canada Caran Program	El Resident Sharify 10 miles
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First To TT	U.S., MI 28 Taxon 7-25-77 J-1-03 Inthony, et al Cymble L.	27	Abortho formed () 26 Local Disk () 1 Company () 1 Compan		Sheder 11595	Serve Section 1	Francisco Control of the Control of	Integritor Appendic Caratrage 27- [Franchise 19-10- [Franchise
	tennoe etelijiii U.S. Egri FEST Frank Anthony Evron 7 : 78 1085	Frank Anthony (2) El Poso Net 6-1-81 12940	Texate Gutti Columbia Corban Toolin	Appropriate States (S. 1997)	# Shaker Burkene High	Gulf Gulf	Ger Million 201	Chycle R Ce-car [5a Colif per sa) Imp A.R Co
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	U.S. U.S. Frank Pronk Pr	Frank Anthony (20)	Frank Anthony (S)	Frank Anthony, (5) #1	11 Page 1 Cagar Tom		TPO Whiten Tex. Par TPO The state of the sta	O', Bra 3-3-31 Unio Sin a sobject of Coo nerado, a
	NAME STATE OF THE PART OF T	/A	6-243 8-1341 1031	From Anthony (3) 01	Shephord's	S	WD - Jalmat anglie Mattix	33e174.6 3
1 T. ""	Noon 4 1 78 1 728 1 128 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Essen (7-1-70 (6720 (Philips (ct Serv Ethno Kap Not 1974 C.2927 4 3 32 Ct Philipping 1 4 32 C	Appropries	BENNET	'n	13384 Swinsowin of	<i>U3</i> ♣ ₽



Proposed for: Apollo Cil Company
Brown No. 5
1650' FNL & 990' FWL
Sec. 25, T25S, R36E
Jalmat Pool
Lea County, New Mexico

4-						-
CPIES ALC	crists]			Form C	103
DISTRIBUTI	ОИ				Superse C+102 a	des Old nd C-103
HTA FE		- NEV	HEXICO OIL CONSERV	ATION COMMISSION	Effectiv	
FILE		-			Sa. Indicate	Type of Lease
LAND OFFICE		-			State	—————————————————————————————————————
CPERATOR		_			5. State Oil	6 Gas Lease No.
			-			
IOO NOT USE	SUND	RY NOTICES A	MD REPORTS ON WEL	LS		
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	L1 Company				Eroas	3
Address of Operat		Sessions.	Inc., Box 763, Ho	bba. N.M. 83240	9. Well No.	
4. Location of Well				1001 110124 001244		d Pool, or Wildcat
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OTHER						
17. Describe Propose u ork) SEE RULE		perations (Clearly	state all pertinent details, a	nd give pertinent dates, incl	uding estimated date	of starting any proposed
	17433 444		dand Bradishlan (24 049	
	Complete	ende an esta	dard Production (company have been	1000 QU	
	5 1/2* co	ains set a	ould indicate the 3289 and perforat	doug 21th do 20th	a aray maga	40
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	was 13°	then the cu	rrout interval op	en to production	is open hal	ð
	Arca 3289	to 3363.		•		
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8. I hereby certify the	at the information	above is true and	complete to the best of my kr	nowledge and belief.		
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IGNEO / LE	molle K	MULT.	TITLE		DATE	
		Orig, Signed				e i da same
PPROVED BY		Joe D. Reme			DATE	1.0 1974
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Case 5655 Exhibit 3

CONDITIONS OF APPROVAL, IF ANYS

My therance 5	A Iclis	File: 25-	-25-36
Standard Production Co		Brown	5
. Op. Hourto-Antwork		Honit	Well No=
Unit E Sec 25 Twp. 25 Rnge. 36 County Le			
Footoge: 1650 tr North line & 990 fr West	line	Spud 9/16/59	Elev. 3066
Pool Jalmat Top of P	oy 3184_	Total Depth3289	РВТО3286
8		Tubular Record:	
Poy.			
Type of Well:		8 5/8 32 set @	536·w/_250sx
Perforations:		5 1/2 17 set @ -	3289 w/ 250 sx
3181-88, 3199-3205, 3245-3250, 3267-69,3278	-80.	2_3/8set @ _	_3200w/sx
		set @ _	
		, , , , , , , , , , , , , , , , , , ,	^
Potentials:	Treatment		@
80 EO, 400 BW, 24 hrs, pump			gal acid: 3184-88.
	3199-3	205, 3245-50 1.00	0 gal acid: 3184-3250
	12,500	gal lse oil, 1.5	# SPG
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Formation Tops:	Remarks:		
A 1085, X 1210, BX 2860, Y 3030	From Ar	tweil to Standar	d 9/8/60
A 1007, A 1410, DA 6000, I JUJU			

	*** * **********		
Oil Reports and Gas Services, Box 763, Habbs, N. M.			

HATER ANALYSIS

Milligrams per liter:

Calcium	342
Magnesium	212
Sodium	1810
Bicarbonate	1903
Sulfate	438
Chlorides	2597
Total dissolved solids	7302
Iron Count	2.4 ppm
pH	6.7
Specific Gravity	1.005
Scale deposits:	
Calcium Carbonate positive @ 860 F	•70
Calcium Sulfate negative	

A lot of H23

January 30, 1975

Mr. Alan W. Ralston Apollo Oil Company Box 1672 Hobbs, New Mexico 88240

Dear Mr. Ralston:

Re: Brown Lease Section 27-25-36 Lea County, New Mexico

Thank you for your letter of January 23, 1975 concerning the above lease.

After consulting with my men in the field, we do not believe that our company can handle this additional volume of water at this time.

Very truly yours,

MARALO, INC.

Cecil Evans

CE/1m

A Subsidiary of M. Ralph Lowe Inc. / P. O. Box 832 / Midland, Texas 79701 / (915) 684-7441

Burk Royalty Co.

ood Oll & Gas Bullding Wichita Bulls, Oexus 78301

Case 5655

March 17, 1976

Oil Reports and Gas Services, Inc. P. O. Box 763
Hobbs, New Mexico 88240

Attention: (Mrs.) Donna Holler

Gentlemen:

We have received your letter of March 8, 1976 in regard to Apollo Oil Company's Application to Dispose of Produced Salt Water into their Brown #5 located in Sec. 25, Twp. 25S, Rge.36E, Lea County, New Mexico.

As this well is 990' from our lease line, we would appreciate receiving a copy of the log in order that we might determine if the zone to be used for disposal is the same as that from which we are producing.

If you would please contact Apollo Oil Company and request that they forward a log, we would appreciate your help.

Very truly yours,

JIID/bs

cc: Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240 Dockets Nos. 12-76 and 13-76 are tentatively set for hearing on April 14 and 28, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 31, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 5641: (Continued from March 17, 1976 Examiner Hearing)

Application of John Yuronka for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection to the Oueen formation through the open-hole interval from approximately 3800 to 3875 feet in his State JC "T" Well No. 1 located in Unit B of Section 16, Township 23 South, Range 36 East, Langlie-Matrix Pool, Lea County, New Mexico.

CASE 5651: (Continued & Readvertised)

Application of Burmah Oil & Gas Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 1780 feet from the South line and 660 feet from the West line of Section 11, Township 24 South, Range 28 East, Eddy County, New Mexico, the W/2 of said Section 11 to be dedicated to the well.

CASE 5655:
Application of Apollo 011 Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water into the lower Yates-Seven Rivers formation through the open-hole interval from 3289 to 3363 feet in its Brown Well No. 5, located in Unit E of Section 25, Township 25 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

CASE 5656: Application of David Fasken for an unorthodox location and simultaneous dedication, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of his Avalon Federal Com Well No. 2, to be drilled 660 feet from the South and West lines of Section 1, Township 21 South, Range 25 East, Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, with all of said Section 1, a previously approved 854-acre non-standard gas proration unit, to be simultaneously dedicated to said well and to applicant's Avalon Federal Com Well No. 1, located in Unit P of said Section 1.

CASE 5657: Application of Inexco Oil Company for an unorthodox gas well location, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of a well to be drilled 350 feet from the East line and 803 feet from the South line of Section 1,

Township 21 South, Range 26 East, Burton Flat Field, Eddy County, New Mexico, the S/2 of said Section 1 to be dedicated to the well.

CASE 5658: Application of Inexco Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 10, Township 21 South, Range 26 East, Avalon Field, Eddy County, New Mexico, to be dedicated to applicant's Inexco Federal-State Com Well No. 1-10, to be drilled at an orthodox location. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5659: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Penrose Skelly Grayburg and Drinkard production in the wellbore of its Mittie Weatherly Well No. 1, located in Unit F of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 5660: Application of Exxon Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Fairview Mills Unit Area comprising 3840 acres, more or less, of Federal and Fee lands in Township 25 South, Range 34 East, Lea County, New Mexico.

CASE 5661: Application of Randolph M. Richardson for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the CC Tank Unit Area comprising 10,550 acres, more or less, of Federal, State, and fee lands in Townships 19 and 20 South, Ranges 23 and 24 East, Eddy County, New Mexico.

Oil Reports and Gas Services, Inc.

P. O. BOX 763 HOBBS, NEW MEXICO 88240

March 8, 1976

PHONE NUMBERS 393-2727 - 393-2017

State of New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

In accordance with Rule 1203 application is hereby made on behalf of Apollo Oil Company for an Examiner Hearing before the Oil Conservation Commission for the purpose of presenting evidence to obtain Commission approval to dispose of produced oil field brine by injection into the Yates-Seven Rivers formation.

Applicant proposes to inject into their Brown No. 5, located 1650' from the North line and 990' from the West line of Section 25, T25S, R36E, open hole interval 3289 to 3363 feet, classified as Jalmat pool.

Control of said injection to be obtained by running 2 3/8" plastic lined tubing with a packer set at 3150 feet as shown by the attached sketch.

Offset operators who have this day been furnished a copy of this application:

Morris R. Antweil P. O. Box 2010 Hobbs, New Mexico 88240

Burk Royalty Company 800 Oil & Gas Building Wichita Falls, Texas 76301 Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240

Maralo, Inc. P. O. Box 832 Midland, Texas 79701

Yours very truly,

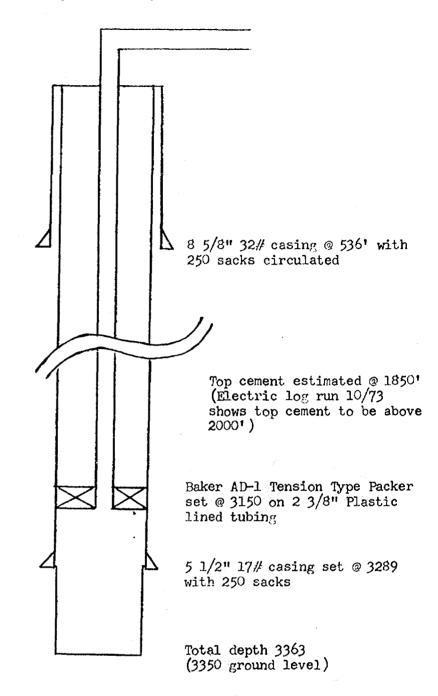
OIL REPORTS & GAS SERVICES, INC.

DH/ra

cc: Apollo Oil Company
P. O. Box 1672
Hobbs, New Mexico 88240

Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Apollo Oil Company
Brown No. 5
1650' FNL & 990' FWL
Sec. 25, T25S, R36E
Jalmat Pool
Lea County, New Mexico

Car: 5-855

Oil Reports and Gas Services, Inc. F. O. BOX 763 HOBBS, NEW MEXICO 88240

March 8, 1976

State of New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

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Yours very truly,

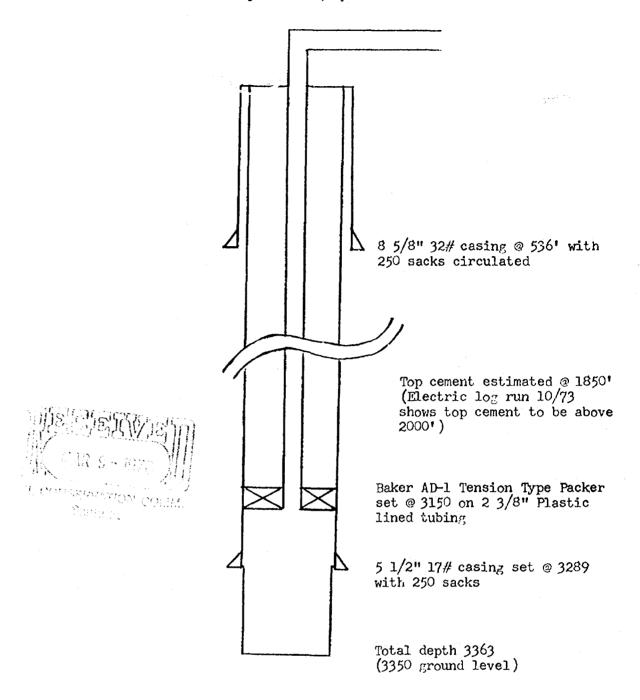
OIL REPORTS & GAS SERVICES, INC.

Wre. Donne Holler

DH/ra

P. O. Box 1672 Hobbs, New Mexico 88240 Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Apollo Oil Company
Brown No. 5
1650' FNL & 990' FWL
Sec. 25, T25S, P36E
Jalmat Pool
Lea County, New Mexico

ene 5655

Oil Reports and Gas Services, Inc. P. O. 80X 763 HOBBS. NEW MEXICO 88240

March 8, 1976

State of New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

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Burk Royalty Company 800 Oil & Gas Building Wichita Falls, Texas 76301 Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240

Maralo, Inc. P. O. Box 832 Midland, Texas 79701

Yours very truly,

OIL REPORTS & GAS SERVICES, INC.

(MC Ge)

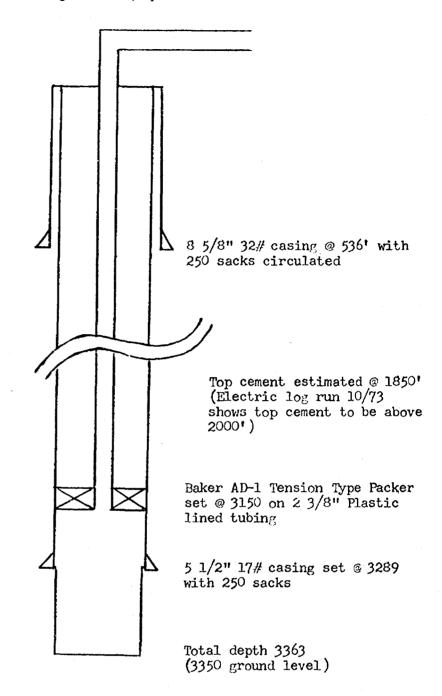
dre.) Donna Holler

DH/ra

cc: Apollo Oil Company
P. O. Box 1672
Hobbs, New Mexico 88240

Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Apollo Oil Company
Brown No. 5
1650' FNL & 990' FWL
Sec. 25, T25S, R36E
Jalmat Pool
Lea County, New Mexico

* apollo Oil Co. --

Brown #5 week

1650 FNL 990 FWL

25 T 25 5 , 36 E

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Jalmas

despose in lower yates and Swar Reveis formation

Of for Much 31

DRAFT dr/

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

5655

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 5655
Order No. R- 5/96
APPLICATION OF APOLLO OIL COMPANY FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.
ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on March 31, 1976 at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.
NOW, on this day of April , 1976 , the Commissio a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,
FINDS:
(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
(2) That the applicant, Apollo Oil Company
is the owner and operator of the Brown Well No. 5
located in Unit E of Section 25, Township 26 25 ERRE South
Range 36 East , NMPM, Jalmat Gas Pool ,
Lea County, New Mexico.
(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the lower Yates-Seven Rivers
formation, with injection into the open-hole interval
from approximately 3289 feet to 3363 feet.
(4) That the injection should be accomplished through $\frac{3}{2}$
-inch plastic-lined tubing installed in a packer
set at approximately 3/50 feet; that the casing-tubing annulus and/or vacuum
should be filled with an inert fluid; and that a pressure gauge
or approved leak detection device should be attached to the

-2- CASE NO.
annulus in order to determine leakage in the casing, tubing,
or packer. if injection with said well should be under pressur (4) That the injection well or system should be equipped
with a pop-off valve or acceptable substitute which will
limit the wellhead pressure on the injection well to no more than 700 psi.
(5) That the operator should notify the supervisor of
the Hobbs district office of the Commission of the date
and time of the installation of disposal equipment so that the
same may be inspected.
(6) That 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.
(7) That approval of the subject application will prevent
the drilling of unnecessary wells and otherwise prevent waste
and protect correlative rights.
IT IS THEREFORE ORDERED:
(1) That the applicant, Apollo Oil Company ,
is hereby authorized to utilize its Brown Well No. 5 ,
located in Unit E of Section 25 , Township 25 South ,
Range 36 East , NMPM, Jalmat Gas Pool ,
Lea County, New Mexico, to dispose of produced salt
water into the <u>lower Yates-Seven Rivers</u> formation, injec-
tion to be accomplished through 2 3/5 -inch
tubing installed in a packer set at approximately 3/50 feet,
with injection into the open-hole interval from approximately
3289 feet to 3363 feet;
PROVIDED HOWEVER, that the tubing shall be plastic-lined;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert andorvacuum fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

- (2) That if injection into said well shall be under pressure, the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1880 psi.
- (3) That if injection into said well is under a vacuum, the operator shall conduct an annual pressure test of the casing-tubing annulus to determine leakage of the casing, tubing, or packer in said well.
- (4) That the operator shall notify the Hobbs office of the Commission of the date and time of such pressure tests in order that they may be witnessed by a Commission representative.
- (5) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

Sunder

steps as may be timely and necessary to correct such failure or leakage.

That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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