Case MO.

7360

Application

Transcripts.

Small Exhibits

FTC



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

DIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 1505) 827-2434

October 14, 1981

Mr. Thomas Kellshin Kellshin & Kellshin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico	Re: CASE NO. 7360 ORDER NO. R-6799 Applicant:
	L. J. Buck
Dear Sir:	
Enclosed herewith are two cop Division order recently enter	
Yours very truly, JOE D. RAMEY Director	
JDR/fd	
Copy of order also sent to:	
Hobbs OCD x Artesia OCD x Aztec OCD	
Othor	

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Monco #2 Sec. 25-25S-36E Lea County, New Mexico

Exhibit - 1 - Map required by Paragraph V C-108

Exhibit - 2 - Tubular summary required by
Paragraph VI C-108
Exhibit - 3 - Data Sheet required by Paragraph VII C-108

Exhibit - 4 - Geological Data, Paragraph VIII C-108

Exhibit - 5 - Data Sheet on Disposal Well

Exhibit - 6 - Schematic SWD Well

Exhibit - 7 - Water Quality

Exhibit - 8- Statement per Paragraph XII C-108

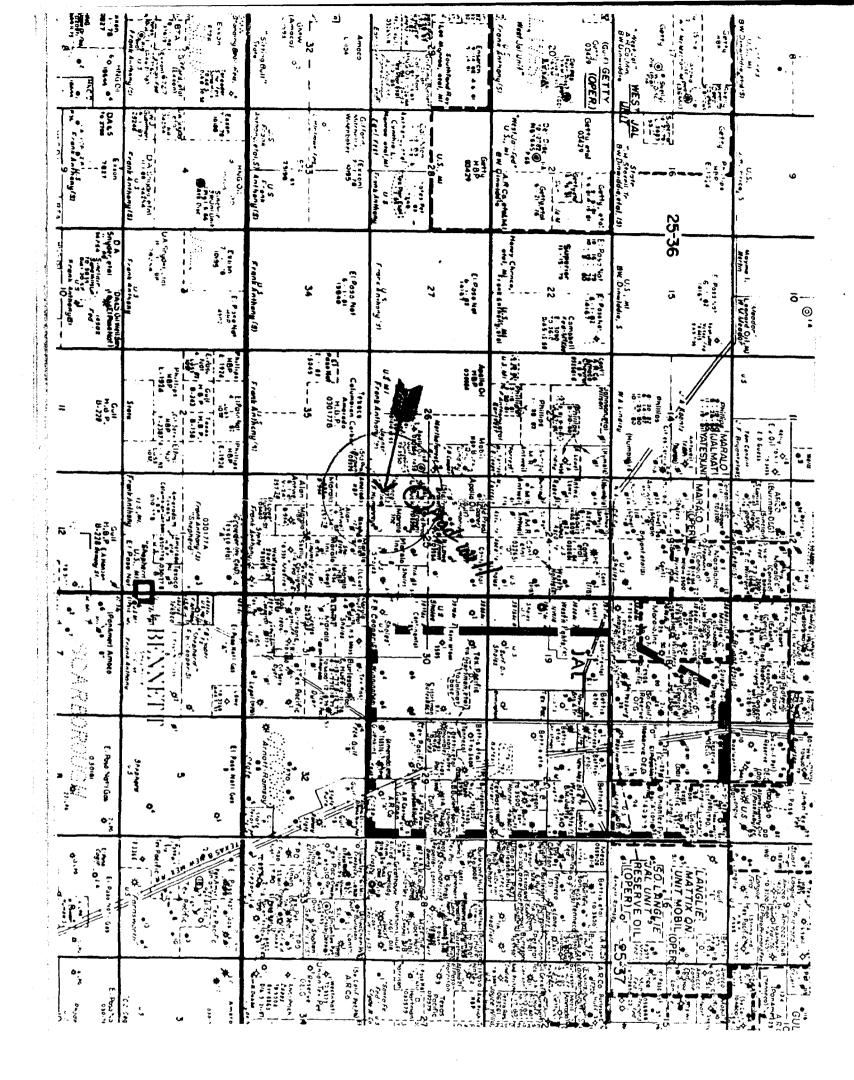
Exhibit - 9 - Notice Requirements

Cute 736 TORM C-108 Revised 7-1-81 STATE OF NEW MEXICO ENERGY AND HINERALS DEPARTMENT **OIL CONSERVATION DIVISION** POST CHICE BOX 20HB STATE LAND CHICE BUILDING SANTA FE NEW MEXICO 97501 Sec. 25-258-36E APPLICATION FOR AUTHORIZATION TO INJECT Lea County, New Mexico Pressure Maintenance X Disposal Secondary Recovery Application qualifies for administrative approval? Operator: Lonnie J. Buck II. Address: Box 129 Hobbs, New Mexico Contact party: Lonnie J. Buck Phone: 505-397-4583 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. III. Is this an expansion of an existing project? yes If yes, give the Division order number authorizing the project 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. 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. VII. 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.). *VIII. Attach appropriate geological data on the injection zone including appropriate lithological detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval. IX. Describe the proposed stimulation program, if any. Attach appropriate logging and test data on the well. (If well logs have been filed X. 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. XII. 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. XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIV. Certification I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. Lonnie J. Buck Title Owner-Operator

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

 If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

Date: 9-8-81



1		2
2	INDEX	
3		
4	I. J. BUCK	
5	Direct Examination by Mr. Kellahin	3
6	Cross Examination by Mr. Stamets	17
7		
8	-	
•	EXHIBITS	
10		
11	Applicant Exhibit One, Plat	4
12	Applicant Exhibit Two, Documents	8
13	Applicant Exhibit Three, Proposal	14
14	Applicant Exhibit Four, Geologic Info.	15
15	Applicant Exhibit Five,	
16	Applicant Exhibit Six, Schematic	15
17	Applicant Exhibit Seven,	
18	Applicant Exhibit Eight, Statement	16
19	Applicant Exhibit Nine,	16
20		
21		
22		
23		
24		
25		

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10

11

12

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14 15

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MR. STAMETS: Call next Case 7360.

MR. PEARCE: Application of L. J. Buck

for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, I'm Tom Kellahin from Santa Fe, appearing on behalf of the applicant and I have one witness.

(Witness sworn.)

L. J. BUCK

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Mr. Buck, would you please state your Q. name for the record?

- Lonnie J. Buck.
- And where do you reside, sir?
- 901 North Jefferson, Hobbs, New Mexico.
- And what is your business or occupation?
- Independent oil operator.
- All right, sir, and as an independent

cil and gas operator have you previously testified before

then, in the packet of exhibits, which is the plat of this

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area, and have you identify for me the well that you seek to convert as a disposal well.

It's the Monco No. 2 in the southwest quarter of the southwest quarter of Section 25, 25 South, 36 East.

Would you tell us what formation you propose to dispose of produced salt water into?

> A. Queen-Seven River.

Would you give us a little background on this Monco Well No. 2, please?

It's a well that was originally drilled as a dry hole and I re-entered it and it had 7-inch surface pipe and I ran 4-1/2 casing and I had to install a submersible pump in it to produce it, and I've been producing about 800 barrels of water a day from it with about 13 to 15 oil.

And the installation for a submersible and 4-1/2 is much more expensive than it is in 5-1/2. The installation in that well cost me \$65,000.

And in the latter part of July it was struck by lightning and burned the cable in several places all the way up and down the hole and burned all three motors up, and minimum repairs would be \$40,000.

Total revenue from the well prior to that was about \$10,500 to \$11,000 a month, and it was costing

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me about \$62 or \$6300 a month to operate it. So just to put it back in production it would -- I would be looking at 10 or 11 months to get the repair bill back.

so the well to the north of it is also mine and I -- what I propose to do is convert this one to a salt water disposal well and put a submersible pump in the other one, which is currently on a beam unit, and I think it will make more oil by quite a bit -- quite a -- considerably more oil than both of them put together have been making.

- All right, the disposal well that you're seeking to convert for disposal purposes, this Monco No. 2, produced at one time from the Seven Rivers and that also produced oil in that formation, along with water?
 - A That's correct.
- All right. Now, would you specifically locate for us the producing well that will be the source of the water that you're going to put in the disposal well?
- A It's in the northwest quarter of the southwest quarter of Section 25, 25, 36, a direct offset.
 - Q Can you give us a -
 MR. STAMETS: Let me make sure I've got

That would be the well in the --

A. Letter L.

MR. STAMETS: Okay, and there's a dry

7 hole and there's a producing well shown --Right. The old Gypsy Oil Company drilled a dry hole to 2900 feet, approximately, in 1928 there MR. STAMETS: Okay. Thank you. Does structure play any significance in production from the Seven Rivers formation, Mr. Buck? Yes, it does. Both of these wells are lower structurally. This one I propose to convert is approximately 25 feet lower structurally than my other well to the north of it, but it is also about 25 feet low to the better producers in the field, which are north and east of that. There are other Seven Rivers wells that Q do produce in this area? Right. And your disposal well will be structurally lower than any of the other producing wells? Than anything else in the field. Q. All right, sir. Now, concerning your producing well from the Seven Rivers, can you give us an indication of what

volumes of production that you anticipate in terms of barreis of oil and barrels of water?

Hopefully, I think I can produce a total of about 800 barrels of fluid per day, and hopefully,

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2	I can I can main	tain the current ratio that I am producing
3	on the beam unit.	I can produce about 60 to 70 barrels of
4	oil per day. I'm o	urrently producing about 15 with the beam
5	unit.	
6	Q.	Once you get this producing well fixed
7	up with a pump you	anticipate fluid production of 800 barrels
3	a day, is that what	you told me?
•	a.	Yes.
10	Q	Out of which you will get how many
11	barrels of oil?	
12	A.	60 or 70, hopefully.
13	Q	All right, sir. Let's turn to the
14	next exhibit in the	packet of exhibits, which is some inform-
15	ation on the Skelly	Oil Company well? What is this?
16	A.	This is a Getty well that they Skelly
17	well, that they dri	lled in 1928.
18	a	This is one of the wells that has pene-
19	trated the Seven Ri	vers and is within a half mile radius of
20	the disposal well?	
21	A.	That's correct. It is owned by Apollo
22	Oil Company and thi	s one is in the northeast of the southeast
23	of Section 26.	
24	a	What is the status of this well?
25	A.	It's a producing well.

Yes.

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1	10		
2	Q. And tell me about this well.		
3	A. It's producing from the Queen-Seven		
4	Rivers.		
5	Q It continues to produce from that forma-		
6	tion?		
7	A Right. It's the one that I haven't		
8	abandoned it. I'm producing about 200 barrels total fluid		
9	a day, and approximately 15 oil, and I can't lower the fluid		
10	level below 1300 foot from the sprface.		
11	Q What will you do with the produced water		
12	or what do you now to with the produced water from this		
13	well?		
14	A. I'm going to a disposal well, what is		
15	north of you there. It's in Section 25, and it's on this		
16	plat it's the Brown No. 5, Standard production. It's owned		
17	by Apollo Oil Company.		
18	Q If the Monco No. 2 Well is approved for		
19	disposal, will you take the water produced from this well		
20	and put it in that disposal well?		
21	Will you put it in your new disposal		
22	well?		
23	A Yes, in the Monco No. 2. I'd put the		
24	water from Monco No. 1 into Monco No. 2.		
25	Q. Okay.		

Z

that exhibit.

 MR. STAMETS: Let me ask one question on

The copy I have, the Kerox machine missed the far lefthand side and I don't have the first number on the perforations. Is that 3252?

A Yes. You're talking -- you're speaking of Monco No. 1, now?

MR. STAMETS: Yes.

A Yes, 3252 to 58.

MR. STAMETS: Thank you.

O Are there any other wells, Mr. Buck, that will be sources of water to put in the disposal well?

I don't know Maralo Mike has tried

A I don't know. Maralo, Mike has tried to contact me twice within the last week and one of his engineers made an appointment to come by and never did show. They own several wells just east of me there and the water they're producing is being hauled. It isn't a large amount but I have good relations with them and most of their people, and I was assuming that they probably were contacting me to maybe dispose of it in this well, if I do make a disposal well.

At this point your intention is to take

Seven Rivers produced water and reinject it in the disposal

well in the Seven Rivers.

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3	A.	Right.
4	Q.	the information on the State "Z" No.
5	1 Well.	•
6	A.	That's correct.
7	Q	All right, let's move along then and have
8	you tell me what the	next exhibit is.
9	A.	That's the completion record of one of
10	Maralo's wells withi	n the within the half mile radius.
11	It's within the same	section.
12		That one shows No. 1, which is letter O.
13	Q.	Yes, sir, it's O.
14	A.	Couldn't see it on the yeah, here
15	it is on the top.	
16	Q	All right, tell me about that well.
17	A.	Well, they it was completed in 1946
18	and is currently pro	ducing.
19	Ó	This is in what formation?
20	A.	Queen-Seven Rivers.
21	Q.	Next exhibit?
22	À	Is the Humphrey No. 2 of Maralo that is
23	letter K, and it als	o produces from the Queen-Seven Rivers.
24	Q	All right, sir, and the next one?
25	A.	Is the Humphrey No. 1, letter M, that

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the injection fluid as the Monco No. 1, it's the Seven Rivers. Queen formation, and you have an analysis of that fluid?

That's ccrrect.

All right, sir. Let's go on to Exhibit Number Four. Would you summarize the information contained on that exhibit for me?

Well, it's geological information that is a matter of record. The Jalmat Pool, Seven Rivers. You know, some people call it Seven Rivers, some Queen, and a lot of people call it Seven Rivers-Queen.

It's approximately 58 foot thick and I have it perforated, 19 perfs between 3221 and 3250.

All right, sir, and you've given a copy of the well log for this well to the Examiner this morning?

Yes.

All right, sir. Let's go to Exhibit Number Six and have you identify that.

That's a schematic of pipe program and cement. It had some 500 foot of 7-inch surface pipe in it when I re-entered it, so consequently I had to run 4-1/2 oil string, and it shows the perfs. At the bottom I ran 4-1/2 plug and 60 pound casing and circulated cement and it also shows I intend to set a packer at approximately 3150 to isolate the zone where I'll be injecting.

Are those the individuals named on

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Exhibit Number Nine?

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A Mr. Fred Cooper is the surface owner and Apollo Oil Company operates this one well that they bought from Skelly, and then Maralo has three within this area.

And in your opinion, Mr. Buck, will approval of this application be in the best interests of conservation, the prevention of waste, and the protection of correlative rights?

Yes.

MR. KELLAHIN: If the Examiner please, we move the introduction of the applicant's exhibits.

MR. STAMETS: These exhibits will be

CROSS EXAMINATION

BY MR. STAMETS:

admitted.

Mr. Buck, a number of times during the course of the hearing you have referred to the Queen-Seven Rivers zone, and the advertisement in this case is for the Seven Rivers only.

as, for the Seven Rivers, and I -- on the completion. I call it the Seven Rivers and I think most people do.

Q Okay, and then --

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2	A.	But
3	Q.	Okay, and then the Oil Conservation
4	Commission didn't am	end that, so I would assume that is
5	correct.	
6		So you're really not seeking authority
7	to inject into the	Queen today.
8	A.	No, into the Seven Rivers.
, - 9	Q	Okay.
10		In essence, what you will be doing is
11	simply returning wa	ater that is produced in the immediate
12	vicinity of your w	ell back into the same horizon
1.3	A.	That's correct.
1	Q.	so you do not have any great pressure
1	effect on that hor	ison.
1	6 A.	That's correct.
1	17 Q	And would it be safe to say that you
1	only intend to ac	cept water produced from the Jalmat Pool in
	the immediate vic	inity of your well?
	20 A.	That's correct.
	21 Q	Okay. It's not your intention to go
	22 out and solicit	water from other
	23 A.	I don't want that headache.
	24	What size tubing is to be used in the
	25 injection?	

southeast of 26.

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Q The one with the circle around it, indicating --

A Right, right.

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The same company that now owns that well has a disposal well that would be much closer to it than my disposal well would be. It would be a diagonal offset to the northeast. It shows on the map as Brown No. 5 of Standard

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Production. It's now owned by Apollo. Both those wells are.

Now, one of the things that has little

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to do with your application but something that I noticed

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before, this is a new system that we have for filing, and

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Form C-108 anticipates, or I thought it anticipated, that it

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tells you to take information that you presented on these

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sheets and put it on a tabular summary, and also I thought

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it said that you should take any well which had been plugged

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and abandoned and do a diagrammatic sketch of it to show where

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the plugs were.

And yet this is the second instance

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where that has not been done. So I'm curious --

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A Well, that's -- that's my fault because
I gathered this information up and I was assuming that -- at

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the time that a copy of the records would be better than a

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transfer tabulation, so that's my mistake.

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under advisement.

 Okay, I didn't know if the form was poorly written in that respect, and if there was some change that needed to be made there.

MR. KELLAHIN: No, sir, we understood the rule of the form to require a tabulation and a schematic.

MR. STAMETS: Okay.

MR. KELLAHIN: We'll be happy to furnish them in this case if you think it necessary.

MR. STAMETS: In going through the records I think there are not so many and they're not so detailed that those won't be acceptable in this case.

Any other questions of this witness?

He may be excused.

Anything further in this case?

MR. KELLAHIN: No, sir.

MR. STAMETS: The case will be taken

(Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sary W. Bayd CSRU

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. heard by me on ______19

, Examiner Oil Conservation Division

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 7360 Order No. R-6799

APPLICATION OF L. J. BUCK FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on September 23, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this ______day of October, 1981, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, L. J. Buck, is the owner and operator of the Monco Well No. 2, located in Unit M of Section 25, Township 25 South, Range 36 East, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Seven Rivers formation, with injection into the perforated interval

-2-CASE NO. 7360 Order No. R-6799

from approximately 3221 feet to 3250 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 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 is 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 645 psi.
- (6) That the Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the Seven Rivers formation.
- (7) That the well should be used only to reinject water produced from the Jalmat Pool from applicant's wells in said pool and from nearby offset acreage in said pool.
- (8) That the operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.
- (9) 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.
- (10) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

-3-Case No. 7360 Order No. R-6799

IT IS THEREFORE ORDERED:

(1) That the applicant, L. J. Buck, is hereby authorized to utilize its Monco Well No. 2, located in Unit M of Section 25, Township 25 South, Range 36 East, NMPM, Lea County, New Mexico, to dispose of produced salt water into the 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 perforated interval from approximately 3221 feet to 3250 feet;

PROVIDED HOWEVER, that the tubing shall be plasticlined; that the casing-tubing annulus shall be filled with an inert 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.

PROVIDED FURTHER, that the well shall be used only to reinject water produced from the Jalmat Pool from applicant's wells in said pool and from nearby offset acreage in said pool.

- (2) That if injection is under pressure, the injection well or system shall be equipped with a popoff valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 645 psi.
- (3) That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Seven Rivers formation.
- (4) That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

-4-Case No. 7360 Order No. R-6799

- (5) That the operator shall immediately notify the supervisor of the Division'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.
- (6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Division Rules and Regulations.
- (7) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOB D. RAMEY,

SEAL

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2	STATE OF NEW MEXICO
	ENERGY AND MINERALS DEPARTMENT
3	OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG.
4	SANTA FE, NEW MEXICO
5	23 September 1981
6	EXAMINER HEARING
7	IN THE MATTER OF:
	Application of L. J. Buck for
	salt water disposal, Lea County, CASE
9	New Mexico. 7360
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13	BEFORE: Richard L. Stamets
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	TRANSCRIPT OF HEARING
16	
17	APPEARANCES
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19	For the Oil Conservation W. Perry Pearce, Esq. Division: Legal Counsel to the Division
20	State Land Office Bldg. Santa Fe, New Mexico 87501
21	
22	For the Applicant: W. Thomas Kellahin, Esq.
23	KELLAHIN & KELLAHIN 500 Don Gaspar
24	Santa Fe, New Mexico 87501
25	

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3			
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24 25 MR. STAMETS: Call next Case 7360.

MR. PEARCE: Application of L. J. Buck

for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please,

I'm Tom Kellahin from Santa Fe, appearing on behalf of the applicant and I have one witness.

(Witness sworn.)

L. J. BUCK

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BY MR. KELLAHIN:

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A Lonnie J. Buck.

And where do you reside, sir?

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And what is your business or occupation?

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All right, sir, and as an independent

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me about \$62 or \$6300 a month to operate it. So just to put it back in production it would -- I would be looking at 10 or 11 months to get the repair bill back.

So the well to the north of it is also mine and I -- what I propose to do is convert this one to a salt water disposal well and put a submersible pump in the other one, which is currently on a beam unit, and I think it will make more cil by quite a bit -- quite a -- considerably more oil than both of them put together have been making.

- All right, the disposal well that you're seeking to convert for disposal purposes, this Monco No. 2, produced at one time from the Seven Rivers and that also produced oil in that formation, along with water?
 - A. That's correct.
- Q All right. Now, would you specifically locate for us the producing well that will be the source of the water that you're going to put in the disposal well?
- A. It's in the northwest quarter of the southwest quarter of Section 25, 25, 36, a direct offset.
 - Q. Can you give us a --

MR. STAMETS: Lot me make sure I've got

the right one. That would be the well in the --

A. Letter L.

MR. STAMETS: Okay, and there's a dry

Now, concerning your producing well from volumes of production that you anticipate in terms of barrels of oil and barrels of water?

Hopefully, I think I can produce a A. total of about 800 barrels of fluid per day, and hopefully,

23

24

25

What is the status of this well?

It's a producing well.

23

24

25

of Section 26.

Okay.

Q.

MR. STAMETS: Let me ask one question on that exhibit.

The copy I have, the Xerox machine missed the far lefthand side and I don't have the first number on the perforations. Is that 3252?

A Yes. You're talking ~- you're speaking of Monco No. 1, now?

MR. STAMETS: Yes.

A Yes, 3252 to 58.

MR. STAMETS: Thank you.

Are there any other wells, Mr. Buck, that will be sources of water to put in the disposal well?

A I don't know. Maralo, Mike has tried to contact me twice within the last week and one of his engineers made an appointment to come by and never did show. They own several wells just east of me there and the water they're producing is being hauled. It isn't a large amount but I have good relations with them and most of their people, and I was assuming that they probably were contacting me to maybe dispose of it in this well, if I do make a disposal well.

At this point your intention is to take

Seven Rivers produced water and reinject it in the disposal

well in the Seven Rivers.

1		12
2	A.	In the Seven Rivers, that's right.
3	Q	Let's go on to the next exhibit, then,
4	Mr. Buck, and have yo	ou tell me what that is.
5	A.	That is a record of a well, plugged well
6	of Skelly Oil Company	y that is in Section 36, 25 South, Range
7	Q.	This is also one of the wells that
8	penetrates the Seven	Rivers that's in the half mile radius.
•	A.	That's correct.
10	Q.	All right, and this well has been plug-
11	ged and abandoned?	÷
12	Α.	Yes.
13	Ď.	In your opinion is the method of aban-
14	donment of this well	adequate that it will insure that water
15	disposed of in the S	even Rivers won't migrate up through
16	this wellbore into a	ny other formation?
17	A.	That's correct.
18	Q.	Let's go on to the next
19	A.	It was originally completed above this
20	one structurally, an	yway.
21	Q.	All right, sir. The next exhibit is
22	for the Skelly State	"Z" No. 1 Well.
23	/A.	That is also the same well, isn't it?
24	It's just where they	went back and finished plugging it.
25	Q.	All right, sir, there's two pages, then,

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•

the injection fluid as the Monco No. 1, it's the Seven Rivers-Queen formation, and you have an analysis of that fluid?

A. That's correct.

All right, sir. Let's go on to Exhibit

Number Four. Would you summarize the information contained

on that exhibit for me?

A. Well, it's geological information that is a matter of record. The Jalmat Pool, Seven Rivers. You know, some people call it Seven Rivers, some Queen, and a lot of people call it Seven Rivers-Queen.

It's approximately 58 foot thick and I have it perforated, 19 perfs between 3221 and 3250.

All right, sir, and you've given a copy
 of the well log for this well to the Examiner this morning?

A. Yes.

All right, sir. Let's go to Exhibit
Number Six and have you identify that.

A. That's a schematic of pipe program and cement. It had some 500 foot of 7-inch surface pipe in it when I re-entered it, so consequently I had to run 4-1/2 oil string, and it shows the perfs. At the bottom I ran 4-1/2 plug and 60 pound casing and circulated cement and it also shows I intend to set a packer at approximately 3150 to isolate the zone where I'll be injecting.

2	a	Have you circulated the cement behind
3	the 7-inch casing al	l the way to the surface?
4	A.	Yes.
5	Q	And how about circulating the cement
6	behind the 4-1/2 inc	h?
7	A.	Yes. That's, I ran a DV tool at 2500
8	feet and it took alm	ost 1000 sacks to circulate cement.
9 .	Q.	In your opinion, Mr. Buck, will the
10	method of completion	for this disposal well be such that
11	water injected into	the disposal formation will not migrate
12	up into any shallow	fresh water sands?
13	A.	I think it's an ideal situation.
14	Q.	All right, sir, Exhibit Number Eight.
15	Have you studied the	geology and well information in the are
16	and determined wheth	er or not there are any hydrologic con-
17	nections or faults b	etween the disposal zone and any fresh
18	water sources?	
19	A.	There are none that I know of.
20	Q.	In addition, have you notified the sur-
21	face owner of the di	sposal well and offset operators within
22	a half mile radius?	
23	A.	Yes.
24	Ć.	Are those the individuals named on
25	Exhibit Number Nine?	

1 Mr. Fred Cooper is the surface owner 2 A. 3 and Apollo Oil Company operates this one well that they bought from Skelly, and then Maralo has three within this area. And in your opinion, Mr. Buck, will approval of this application be in the best interests of comservation, the prevention of waste, and the protection of correlative rights? 10 Yes. 11 MR. KELLAHTM: If the Examiner please, 12 we move the introduction of the applicant's exhibits. 13 MR. STAMETS: These exhibits will be 14 admitted. 15 16 CROSS EXAMINATION 17 BY MR. STAMETS: 18 Mr. Buck, a number of times during the 19 course of the hearing you have referred to the Queen-Seven 20 Rivers zone, and the advertisement in this case is for the 21 Seven Rivers only. 22 That's what I -- that's what I filed it 23 as, for the Seven Rivers, and I -- c the completion. I 24 call it the Seven Rivers and I think most people do.

Okay, and then --

25

Q.

1		18
2	A.	But
3	Q.	Okay, and then the Oil Conservation
4	Commission didn't an	mend that, so I would assume that that is
5	correct.	
6		So you're really not seeking authority
7	to inject into the	Queen today.
8	Α	No, into the Seven Rivers.
9	Q.	Okay.
10		In essence, what you will be doing is
11	simply returning wa	ter that is produced in the immediate
12	vicinity of your we	11 back into the same horizon
13	A.	That's correct.
14	Q	-> so you do not have any great pressure
15	effect on that hori	zon.
16	A.	That's correct.
17	Q.	And would it be safe to say that you
18	only intend to acce	pt water produced from the Jalmat Pool in
19	the immediate vicin	ity of your well?
20	A.	That's correct.
21	Q	Okay. It's not your intention to go
22	out and solicit wat	er from other
23	A.	I don't want that headache.
24	Q.	What size tubing is to be used in the
25	injection?	

1		19
2	A.	2-3/8ths.
3	Q	And what type of
4	A	Plastic coated.
5	Q.	Okay. And I presume the wellhead will
6	be fixed up so that	you can determine if there's any leakage
7	in the system.	
8	A	You bet.
9	Q	And you intend to run some sort of
10	treated fluid behind	the tubing?
11	A.	Yes.
12	<u>σ</u>	On the first of the series of sheets
13	that deal with the	wells within a half mile radius is this
14	Skelly well and I ha	ad a hard time looking at that seeing how
15	that well was comple	eted, at least as far as the casing set
16	through the produci	ng horizon. Does that show that that
17	casing was cemented	at all?
18	A.	My records don't. This is a there
19	is no record in the	well file at the Commission office in
20	Hobbs.	
21		Skelly, I mean Getty, just happened to
22	have some old well	files still and this is the only record
23	they have of it.	
24	Q.	And which well is this on the plat?
25	Α.	This is the one in the northeast of the

southeast of 26.

A Right, right.

The same company that now owns that well has a disposal well that would be much closer to it than my disposal well would be. It would be a diagonal offset to the northeast. It shows on the map as Brown No. 5 of Standard Production. It's now owned by Apollo. Both those wells are.

Now, one of the things that has little to do with your application but something that I noticed before, this is a new system that we have for filing, and Form C-108 anticipates, or I thought it anticipated, that it tells you to take information that you presented on these sheets and put it on a tabular summary, and also I thought it said that you should take any well which had been plugged and abandoned and do a diagrammatic sketch of it to show where the plugs were.

And yet this is the second instance where that has not been done. So I'm curious --

A. Well, that's -- that's my fault because I gathered this information up and I was assuming that -- at the time that a copy of the records would be better than a transfer tabulation, so that's my mistake.

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sassy W. Boyd Cor

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2366. heard by me on Examiner

Oil Conservation Division

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Of the Court of th OIL CONSERVATION DIVISION P. O. HOX 2008 ******* SANTA PE, NEW MEXICO 87501 w 1.0.1. . 440 000 K 3 REQUEST FOR ALLOWABLE ********* AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL CAS PAURATION OFFICE 6,410101 Lonnie J. Buck Address 901 North Jefferson Hobbs, New Mexico 88240 Ressorts) for bling (Check proper bos) Hed Aell CASINGHEAD GAS MUST NOT TO FLARED AFTER 11-1-1-1 Oil Dry Ges Recenciation Change in Ownershis[Casinghood Gas Condensate UNLESS AN EXCEPTION TO R-1979 If chance of asmeration give name B OBTAINED. and address of provious owner DESCRIPTION OF WELL AND LEASE. | Well No. | Paul Name, Including Fairmatte Lease No. Monco #2 State, Federal or Fee Jalmat <u>670</u> M Feet From The South Line and 660 25 Line of Section Township " **25**S Range 36E , NMPM, County DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Name of Authorized Transporter of Oil Of Condensate hadress (Give address to which approved copy of this form is to be sent) Western Oil Transportation Hobbs, New Mexico tione of Authorized Transporter of Castaghead Gas ut Dty Gas [] Address (Give address to which approved copy of this form is to be sent) Paso Natural Gas Co. Midland, Texas 25 25S 36E M Not tested: If this production is commingled with that from any other lease or pool, give commingling order number: COMPLETION DATA Oil Well Ges Well Now Well Deepen Plug Rock Same Rest. Dill. Rest Designate Type of Completion - (X) XX Re-entry Duta Compl. Heady to Prod. Total Depth P.D.T.D. 7-30-79 Elevations (VF, RKB, RY, GK, etc., 3327' 8-22-79 3303' 'une of Producing Formation Seven Rivers Top Oil/Gas Pay Tublag Capib 3288 3066° Perfectations pla Castra Shot <u> 3326'</u> <u> 3264-70: 81-91: 96-98</u> TUBING, CASING, AND CEMENTING RECORD SACKS CEMENT HOLE SIZE CASHIG & TUBING SIZE DEPTH SET 3325x 4}"-11.60# 611 drige_ 3326 DV tool at 2501'. Cemented in 2 stages. Circulated cement W/ 980 sx cement. 2-3/8" tubing 3288! SN_@_3253' TEST DATA AND REQUEST FOR ALLOWABLE Test must be after recovery of total volume of load oil and must be usual to or exceed top alive. OIL WELL oble for this depth or be for full 24 hours) Oli Hun To Tanks Date of Toos Producting Method (Flow, pump, gas lift, etc.) Dute First No 8-24-79 8-30-79 Pumping Chote Size Length of Test Tubing Pissours Casing Pressure 24 hrs. vented Gua - MCF 011-3514. Hatel - Bbis. Actual Prod. During Tool 26 bbls. 22 oil 4 water not tested

GAS WELL Gravity of Condensate Actual From Tool-MCF/D Length of Test Bala. Contenagle MAICF Teeting Method (pitot, back pr.) Tubing Pressur (shut-in) Casing Pressue (Shut-in) Choke Siza

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation thivision have been compiled with and that the information given above is true and complete to the best of my knowledge and belief.

Hierordel OwnerOperator

> 9-5-79 (1)010)

OIL CONSERVATION DIVISION 1,15/5

APPROVED

This form is to be filled in compliance with RULE 1104,

If this is a request? r allowable for a newly deliled or despans well, this form must be accompanied by a tabulation of the deviation taken on the well in accordance with nuck tit.

All sections of this form must be filled out completely for allo-able on new and recompleted wells.

FITI our only Sections 1, 11, 111, and VI for charges of owns well name or number, or transporter, or other such change of condition Separate Forms C-104 must be filed for each pool in multiprempleted wells.

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Exhibit 3

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Monco #2
Salt Water Disposal Well
Sec. 25-25S-36E
Lea County, New Mexico

Data On Proposed Operation of Well

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

Average daily rate of 1,000 B/D Maximum daily rate of 2,000 B/D

- 2. System will be closed.
- 3. Proposed average and maximum injection pressure:

Average injection pressure: O (Vacuum) Maximum injection pressure: 250 psi

4. (A) Source of injection Fluid: Monco #1

Seven Rivers-Queen Formation

(B) Analysis of Formation Fluid: (milligrams per liter)

Resistivity .190 @ 75 Degrees
Specific Gravity 1.025
Ph 6.5
Calcium 3,250
Magnesium 840
Chlorides 17,500
Sulfates 2,750
Bicarbonate 1,025
Iron - nil

5. Zone of disposal is productive of oil and gas within one mile of proposed disposal well, but those wells are much higher structurally than proposed disposal well.

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Exhibit 4 Ref: Para VIII - C-108

Monco #2
Salt Water Disposal Well
Section 25-25S-36E, NMPM
Lea County, New Mexico

Geological Data on Injection Zone

Pool: Jalmat

Formation: Seven Rivers

Geological Name: Seven Rivers

Thickness: 58 feet

Depth: 3221 feet

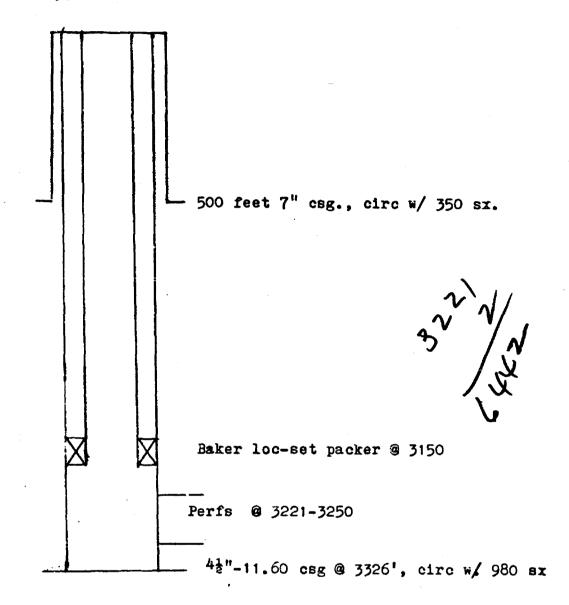
Injection Interval: 19 perforations 3221 feet to 3250 feet

Exhibit 6

Proposed Water Disposal Well

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Monco #2 Section 25-25S-36E Lea County, New Mexico.



901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Exhibit 8

Lonnie J. Buck researched available geologic 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

١.

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Exhibit 9

In accordance with Section XIV-C-108, applicant has mailed copies of the application to the following:

Surface Owner:

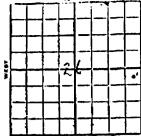
Mr. Fred Cooper Route I Blossom, Texas 75416

Leasehold Operators within one-half mile:

Apollo Oil Company Box 1737 Hobbs, New Mexico

MARALO Box 832 Midland, Texas

Applicant has caused to be published in the Lovington Leader, a newspaper of general circulation in Lea County, the attached notice.



SKELLY OIL He Maite Line

7200 3248

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		Lous	u #4494.	Torpedo	Record	1st Shot	Qts.	2d Shot	Qts
	BOUTH		-	Shot bet	ween	Ft.	Ft.	Ft.	Ft
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RECORD OF FORMATIONS

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O ⊋ro	615	61.0	
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		(92.2)	

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Notice Of Publication

State of New Mexico Energy and Minerals Department Oil Conservation Division Santa Fe, New Mexico

NOTICE: To all persons having any right, title, interest or claim in the following:

Pursuant to the Rules and Regulations of the New Mexico Oil Conservation Commission, Lonnie J. Buck hereby gives public notice that he has applied to the Division for an order approving his Monco #2 well Located 660 feet from the west line and 670 feet from the south line of Section 25, 25S, R36E, NMPM, Lea County, New Mexico as a disposal well in Seven Rivers-Queen formation in the Jalmat Pool at a depth of 3221 feet to 3250 feet at a maximum rate of 2,000 barrels per day at a maximum injection pressure of 250 psi.

Any interested party must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days of the date of publication of this notice.

KELLAHIN & KELLAHIN Attorneys at Law P.O. Box 1769 Santa Fe, New Mexico 87501 (505) 982-4285 Attorneys for Lonnie J. Buck P 335 765 492 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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P 335 765 493 RECEIPT FOR CERTIFIED MAIL

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RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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Dockets Nos. 31-81 and 32-81 are tentatively set for october 2, and October 21, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HUARING - WEDNESDAY -SEPTEMBER . 3, 1981

9 A.M. - OIL CONSERVATION DIVISION 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 7353: Application of Texaco, Inc., for the amendment of Division Order No. R-5530, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks the amendment of Order No. R-5530, which authorized its

 Central Vacuum Unit Area Pressure Maintenace Project, to increase the total project area allowable,

 or as an alternative, to reclassify the project as a waterflood project.
- CASE 7354: Application of Corona Oil Company, for a pilot steam-enhanced oil recovery project, Guadalupe County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to institute a pilot steam-enhanced oil recovery project in the Santa Rosa formation by using two existing wells and three additional wells to be drilled to complete a five spot pattern located in the NE/4 NW/4 of Section 17, Township 11 North, Range 26 East.
- CASE 7355: Application of Doyle Hartman for directional drilling and an unorthodox location, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to drill his Bates Well No. 3, the surface location of which is 1635 feet from the South line and 1210 feet from the West line of Section 20, Township 25

 South, Range 37 East, in such a manner as to bottom it at a depth of 3500 feet in the Jalmat Gas Pool at an unorthodox location 2310 feet from the South line and 1650 feet from the West line of Section 20.

 The SW/4 of said Section 20 would be dedicated to the well.
- CASE 7356: Application of S & I Oil Company for compulsory pooling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the W/2 SW/4 of Section 12, Township 29 North, Range 15 West, Cha Cha-Gallup Oil Pool, to be dedicated to a well to be drilled at a standard location thereon. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7357: Application of Union Oil Company of California for compulsory pooling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Atoka and

 Morrow formations underlying the W/2 of Section 16, Township 22 South, Range 33 East, to be dedicated

 to a well to be drilled at a standard location thereon. 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, designation of applicant as operator of the well, and a charge for

 risk involved in drilling said well.
- CASE 7343: (Continued from September 9, 1981, Examiner Hearing)

Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Cha Cha Gallup Oil Pool underlying the E/2 NW/4 of Section 18, Township 29 North, Range 14 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

Application of John Yuronka for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Langley Mattix Pool underlying the SW/4 of Section 6, Township 23 South, Range 37 East, to form four 40-acre tracts, each to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.

CASE 7359: Application of Energy Reserves Group for creation of a new gas pixel and an unorthodox location, Received County, New Mexico.

Applicant, in the above-styled cause, seeks creation of a new Cisco das pool for its Miller Com Well No. 1, located in Unit M of Section 12, Township o South, Range 33 East.

Applicant further seeks approval of an unorthodox location for its Miller "A" Well No. 1-Y, to be drilled 1800 feet from the South line and 1700 feet from the East line it destron 11 of the same township. The S/2 of said Section 11 to be dedicated to the well.

CLSE 7345: (Continued from September 9, 1981, Examiner Hearing)

Application of Bass Enterprises Production Company for compulsory pooling, hea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Lovington Penn Pool underlying the N/2 NE/4 of Section 13, Township to South, Range 36 East, to be dedicated to a well to be drilled at a standard location thereon. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7360:

Application of L. J. Buck for salt water disposal, Lea County, New Mexico.

Applicant, in the above-styled cause seeks authority to dispose of produced salt water into the Seven Rivers formation in the interval from 3221 feet to 3250 feet in his Monco Well No. 2 in Unit N of Section 25, Township 25 South, Range 36 East.

CASE 7352: (Continued from September 9, 1981 Examiner Hearing)

Application of Yates Petroleum Corporation for designation of a tight formation, Eddy County, New Mexico. Applicant, in the above-styled cause, pursuant to Section 107 of the Natural Gas Policy Act 18-CFR Section 271.701-705, seeks the designation as a tight formation of the Permo-Penn and formation underlying all of the following townships:

Township 17 South, Ranges 24 thru 26 East:

18 South, 24 and 25 East;

19 South, 23 thru 25 East:

20 South, 21 thru 24 East;

201 South, 21 and 22 East;

21 South, 21 and 22 East;

Also Sections 1 thru 12 in 22 South, 21 and 22 East,

All of the above containing a total of 315,000 acres more or less.

CASE 7329: (Readvertised)

Application of Loco Hills Water Disposal Company for an exception to Order No. R-3221, Eddy County, New Mexico

Applicant, in the above-styled cause, seeks an exception to Order No. R-3221 to permit the commercial disposal of produced brine into several unlined surface pits located in the N/2 SW/4 SW/4 of Section 16, Township 17 South, Range 30 East.

Docket No. 30-81

Dockets Nos. 31-81 and 32-81 are tentatively set for October 7, and October 21, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - SEPTEMBER 29, 1981

9 A.M. - OIL CONSERVATION DIVISION - MORGAN HALL STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

CASE 7116: (DE NOVO)

Application of Southland Royalty Company for designation of a tight formation, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying portions of Township 31 and 32 North, Ranges 10, 11, 12, and 13 west, containing 93,860 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

Upon application of Consolidated Oil & Gas, Inc., this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 7361: Application of Southland Royalty Company for designation of a tight formation, San Juan County, New Mexico.

Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying all or portions of Township 31 North, Ranges 10 and 11 West, and Township 32 Morth, Ranges 10, 11, 12, and 13 West, containing 92,871 acres more or less, as a tight formation pursuant to Section 107 of the Matural Gas Policy Act and 18 CFR Section 271. 701-705.

CASE 7362: Application of R. A. Mendenhall Associates, Ltd., for compulsory pooling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Delaware

Mountain Group formation underlying the NW/4 SE/4 of Section 10, Township 22 South, Range 27 East,

to be dedicated to a well to be drilled at a standard location thereon. 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, designation of applicant as operator of the well, and
a charge for risk involved in drilling said well.

Memo From

Florene Davidson

ADMINISTRATIVE SECRETARY

8/25/81

Palt Water Lisposal

Monco # 2- M SWY SWY

25-255-36 E

Lea County

Seven Rivers formation

3081' - 3/08'

901 N. Jefferson

88240

OIL CONSERVATION COMMISSION-SANTA FE

3221-3250

OIL CONSERVATION COMMISSION-SANTA FE

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

CASE	NO.	7360	
Orde	. No.	R- (0799	

APPLICATION OF L. J. BUCK FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION



BY	THE	DIV	TS	IO	N	:

NOW, on this ______ day of ______, 19 81__, the Division Director, having considered the testimony, the record, and the recomendations of the Examiner, and being fully advised in the premises, FINDS:

This cause came on for hearing at 9 a.m. on September 23, 1981

19____, at Santa Fe, New Mexico, before Examiner Richard L. Stamets

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, L. J. Buck is the owner and operator of the Monco Well No. 2 located in Unit M of Section 25, Township 25 South Range 36 East , NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Seven Rivers formation, with injection into the Derfora ted interval from approximately 3221 feet to 3250
- (4) That the injection should be accomplished through $\frac{235}{5}$ -inch plastic lined tubing installed in a packer set at approximately 3/50 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure 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 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 <u>645</u> psi.	
	(6) That the Director of the Division should be authorized	
	to administratively approve an increase in the injection	
	pressure upon a proper showing by the operator that such higher	
	pressure will not result in migration of the injected waters	
	from the Seven Rivers formation.	
		*
	(1) that the well should be used	-
	100 1 1 1 D 1 1 1 1 1 1 1	_
	the formet fool toom applicant's wells	
g	in said pool and from nearby offset	
	acreoge in said pool.	_
		-
	(16) (9) That approval of the subject application will prevent	
ŕ	the drilling of unnecessary wells and otherwise prevent waste	
	and protect correlative rights.	
	IT IS THEREFORE ORDERED:	
	(1) That the applicant, L. J. Buck	
	is hereby authorized to utilize its Monco Well No. 2	,
	located in Unit M of Section 25 , Township 25 South	,
	Range 36 East , NMPM,	
	Lea County, New Mexico, to dispose of produced salt	
	water into the Seven Rivers formation, injection to	
	be accomplished through 23/8 -inch tubing installed in a	
	packer set at approximately 3/50 feet, with injection into	
	the perfore ted interval from approximately 3221	
	feet to 3250 feet;	
	1	

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 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.

There led Free ther that the well shall be used to be reinject exter produced to be said from applicants wells in said pool and from nearly offset extension in said pool.

... migration of the injected fluid from the Seven Rivers formation.

- (4) That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.
- visor of the Division'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.
- (6) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Division Rules and Regulations.
- (7) That 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.

OIL CONSERVATION DIVISION POST OFFICE BOX (XXIII) BITTLE LAND OFFICE BUILDING GRAPTA FE, NEW MERICURE/SOT

7360 FORM C-108
Revised 7-1-81

Monco #2

•	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage
	Application qualifies for administrative approval? yes no
•	Operator: Lonnie J. Buck
	Address: Box 129 Hobbs, New Mexico
	Contact party: Lonnie J. Buck Phone: 505-397-4583
•	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?
•	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.
•	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 lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
•	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.
	Cortif' Lion
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Lonnie J. Buck Title Owner-Operator Signature: Viannie J. Buck Date: 9-8-81

Monco #2 Sec. 25-258-36B Lea County, New Mexico

Exhibit - 1 - Map required by Paragraph V C-108

Exhibit - 2 - Tubular summary required by
Paragraph VI C-108
Exhibit - 3 - Data Sheet required by Paragraph VII C-108

Exhibit - 4 - Geological Data, Paragraph VIII C-108

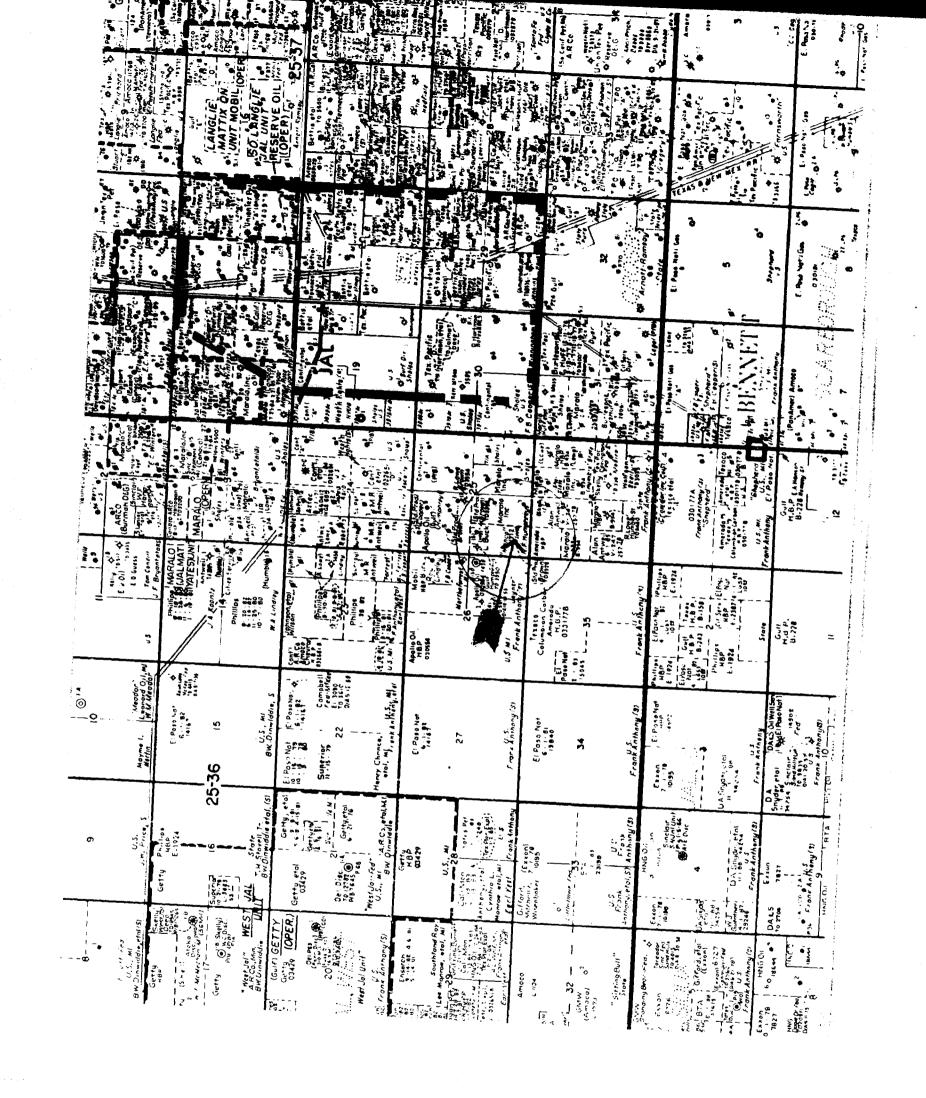
Exhibit - 5 - Data Sheet on Disposal Well

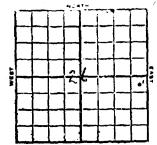
Exhibit - 6 - Schematic SWD Well

Exhibit - 7 - Water Quality

Exhibit - 8- Statement per Paragraph XII C-108

Exhibit - 9 - Notice Requirements





SKELLY OIL

COMPANY Request No. 1037.

Leasu #4494.

			_	
Record of Well	No1		. Jomer	Farm
Lease Description	E/2 Sec.	19,	ali Sec. 2	0. ∵/2 Sec.2
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				\cres 2560
				arquhar
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	lant from Courth	line	SE/4 Sec.	26. rom West line 1, 30, 19, 28
Jy	13 7 %.	28		1 2 30 26
		<u>, 28</u>	Drilling com'd.	an. 30. 19.29
J. A. Lo	mg			Rig Cont'r
			Ro	ary Drilling Cont's
Flahert	Bros.		Strand	ard Drilling Cont's
Total depth of	well	iœt	· · · · · · · · · · · · · · · · · · ·	per foot
Commenced P	roducing	oan:	Mry 30,	19 29
	/1st 3 hours		180	Bbls
Natural Production	(3) (3) (4)		272	DLL
1104461000				
After Shot	(1st 24 hours			
ALC: SHOT	(2d 24 hours.			Bbls.
Gas Pressure		lbs.	Volume	Cu. ft
·			L CRITTE	5017722
OU #1			. 201	941
Best Oil at			n 15½n	449*
Water at			~IK	
Top of Break	The same of the same	***************************************	125	9651
Bottom of Bro	ak		10"	29741
Top of 2nd Sa	nd		ريدع	32681
- ·	d		-	
			<u></u>	
Bottom of 2nd	Sand	333	<u> </u>	
TOTAL I	EPTH:		-	3 5

CLEANING OUT RECORD

Date commenced cleaning out_	September 14, 1943
Date cleaning out was complet	ed September 16, 1948
Drilled deeper No. of feet	
Production prior to cleaning	10 bbls. oil, 11 bbls. water
Production after cleaning	13 bbls. oil,12 bbls. mater
REMARAS:	

	,		Form N47-1M-	icts retel
RECORD OF ST	i i	To Tup	To Bet.	Thickness
Istor Chite L	1.6	7200	_223	_55'_
id or Suft Srion	21.20	3248	2251	5'
ad or Gray Lim		3260	3281	15⁴
4th or Gray Lim	e	2316	3523	5'
5th or Than 1 14-		3308	3573	3.
Torpedo Record	1st Shot	Qts.	2d Shot	Qts.
Shot between	Ft.	Ft.	Ft.	Ft.
Date of Shot		19		19
Put in by				
No. ft. of Shell				
Size of Shell				
No. ft. Anchor				
Listance below casing				
Any damage to casing or casing shoulder				

Packer set at	R, ^ Si	æ k	Kind
Packet set at	A. S	æ å	Kind
Wooden Conductor:	Size		Fee

Drive Pipe Casing, Tubing and Sucker Rods

Size	Weight per		Lest in Well		Put in We pulled	
	Foot	Jts.	Feet	In.	Feet	In
20"	90		یکو	9		
15 💯	70		443	O		
12 ³	50				964	4
10"	40		2997	5		
81,,	32.		3271	11	3271	11
						1

{ 		_
FILLELL	Plupius Where Set	
	Perforated at	
Liner Size_	Length Where Set	
Hole reduced at	Perforated at	
		_

DEEPENING RECORD

Date commenced deepening

Date completed

Drilled deeper No. of feet

Production prior to deepening

Froduction after deepening

NOTE: If well is dry, state under remarks, When, How, and by Whom plugged.

RECORD OF FORMATIONS

FORMATION	тор	BOTTOM	REMARKS Indicate Showing of Oil, Gas, Water and Describe Formation.
Sund, rad	0	15	
Sand, hard	15	30	
Sanle, sandy	30	35	_ (
Sand, red	35	60	
S ale, blue	- 85	85	
Rock, red	85	140	Set 20" casing at 94".
Smale, light smidy	140	130	
Rock, red	160	205	
Sand	205	230	·
Rock, red	230	235	
Sard, light	2.35	265	
Rock, red	265	275	·
Sard, white.	275	440	HF/ at 760'.
Stale, 11 ht	44.5	455	Sot & consisted 15fm casing with 200 marks
•		1	coment at 449' and while trying raise
		1	chain; to allow descrit to sired de areas
•		I	bettom of dies, rig front was palled in.
	}	1	2 on oill A count out of coning box re
	ļ	}	repairing rise lossified rights tried
	})	raise light to reas out but co death do so
	1	}	Cor out of drilling mod at 645 1th ando
Said, light	455	690	showing angut 6 billions water par hour.
Rock, red	490	615	The king district the setting of the day
Sud, Hit	615	675	1 1
G es	615	0.0	
Reck, red	633	210	

Lice, light	710	720		
Rock, red	720	720 3	bust tools at 7/ recorns	ed than serie day.
D. d. rel	700	570		
Ivi, red	870	875		•
Rock, red	675	830		
Samu, rod broken	880	900		•
G.fp. white	900	905		•
Kud, Ted	905	920		
Sand, white	920	930	luter.	
Rock, red	930	935		
Sund and red rook	935	940	Small show gus at 935.	
Rook, red	940	945		•
Sund, light broken	945	960		
Mud, red	960		Set 123 casing at 965.	3
Rock, red	965	1095	244 75% 0407.00	,
				-
Anhydri te, white	1095	1140	•	
Salt, white	1140	1160		•
Anh, drite, white	1160	1245		
Sult, white	1245	1320		•
Salt & potash, white	1320	1325		,
Smale, blue	1325	1330	**.	
S.u.le. red	1330	1360		_
Anudrite, light	1360	1405		
	1405	1410	-3 	
Saale, blue				•
Rock, red	1410	1415		
Salt, white	1415	1435		
Annydrite	1435	1450	*	
Salt, white	1450	1480		
Rock, red	1480	1.505	• •	
Suni, white	1505	1510		•
	1510	1520		
Rock, red .				
Salt	1520	1560		
Rock, red	1 5 60	1565		
Salt, white	15 65	1630	•	
Salt ani potesh	1630	1660		
Anhydrite, white	1660	1700		
Silt, white	1700	1815		
Anaydri te, light	1815	1835		
Salt ami potash	1835	1920		
	1920	1925		
Sult, white				
Anhydrite, white	1925	1950	•	
Salt, white	1950	1970		
Red bed and potash	1970	1980		. -
Salt, white	1980	2160	•	•
Annydrite, white	2160	2180		•
Salt, white	2160	2220		•
Amydrite, list 3434 433	2220	2245		
Salt, light.	2245	2485	Lost tools at 2380 & recov	ered same.
Anhydrite, white	2485	2520	•	
Sult, light	2520	2555		
	2555	2590	•	
anight to, white			ì	
Salt, light	2590	2615	4	•
Anhydrite, white	2015	2610		
Salt, li ht	2640	2760	• •	., 9 608
Anhydrite, white	27 60	2 5 00		· · · · · · · · · · · · · · · · · · ·
	2600	2935		·
Sult, light	29 35	2992	•	•
		5 005	Sat & cemented 10" casing	with 75 engles
Anhydri te, whi to	2992			
	2992		cement at 2974 SIMI3005 C	
Anhydri te, whi to	2992		to set 4 days before dril	i). Allowed cement
Annydrite, white Line, brown	2992		to set 4 days before dril	i). Allowed cement
Annydrite, white Line, brown Correction to steel line	•	5072		i). Allowed cement
Annydrite, whito Line, brown Correction to steel line measurement	3 005	2974		i). Allowed cement
Annydrite, whito Line, brown Correction to steel line measurement himo, gray	3005 2974	3040	to set 4 days before dril	i). Allowed cement ling plug.
Annydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black	3005 2974 3040	3040 3098	to set 4 days before drill Very slight show oil at 3	i). Allowed cement ling plug. 040-3042.
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken	3005 2974 3040 3098	3040 3098 3101	to set 4 days before dril	i). Allowed cement ling plug. 040-3042.
Annydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black	3005 2974 3040	3040 3098	to set 4 days before drill Very slight show oil at 3	i). Allowed cement ling plug. 040-3042.
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken	3005 2974 3040 3098	3040 3098 3101 3155	to set 4 days before drill Very slight show oil at 3	i). Allowed cement ling plug. 040-3042.
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Smale, light	3005 2974 3040 3098 3101 3156	3040 3098 3101 3155 3179	Very slight show oil at 3 Small show oil at 3098-31	i). Allowed cement ling plug. 040-3042.
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Shale, light Line and sand, light	3005 2974 3040 3098 3101 3156 3179	3040 3098 3101 3155 3179 3200	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180.	i). Allowed cement ling plug. 040-3042.
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Smale, light	3005 2974 3040 3098 3101 3156	3040 3098 3101 3155 3179	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to	i). Allowed cement ling plug. 040-3042. 01. 81. at 3228. 1/2
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Shale, light Line and sand, light	3005 2974 3040 3098 3101 3156 3179	3040 3098 3101 3155 3179 3200	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced halo from 10° to million cu. ft. gas at 32	i). Allowed cement ling plug. 040-3042. 01. 81° at 3228. 1/2 33. At 3233, put
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Shale, light Line and sand, light	3005 2974 3040 3098 3101 3156 3179	3040 3098 3101 3155 3179 3200	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10" to million cu. ft. gas at 32 on Master gate and moved	i). Allowed cement ling plug. 040-3042. 01. 81° at 3228. 1/2 33. At 3233, put
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced halo from 10° to million cu. ft. gas at 32 on Master gate and moved crease of gas at 3248.	i). Allowed cement ling plug. 040-3042. 01. 813 at 3228. 1/2 33. At 3233, out boiler back. In-
Anhydrite, whito Line, brown Correction to steel line measurement himo, gray Lime, black Linestone, light broken Line, light Shale, light Line and sand, light	3005 2974 3040 3098 3101 3156 3179	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10" to million cu. ft. gas at 32 on Master gate and moved	i). Allowed cement ling plug. 040-3042. 01. 813 at 3228. 1/2 33. At 3233, out boiler back. In-
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced halo from 10° to million cu. ft. gas at 32 on Master gate and moved crease of gas at 3248.	i). Allowed cement ling plug. 040-3042. 01. 813 at 3228. 1/2 33. At 3233, out boiler back. In-
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10° to million cu. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hal	1). Allowed cement ling plug. 040-3042. 01. 813 at 3228. 1/2 33. At 3233, out boiler back. In- e at 3248 to 3251. on Nov. 3, 1928
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10° to million cu. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hall Death of 3251 was reached a well was then shut in the	1). Allowed cement ling plug. 040-3042. 01. 81 at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o creet tankage.
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10° to million cu. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell beath of 3251 was reached a well was then shut in topened well up on Nov. 9	i). Allowed cement ling plug. 040-3042. 01. 81a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hale from 10° to million cu. ft. gas at 3248. Oil started rising in hell booth of 3251 was reached a well was then shut in topened well up on Nov. 9 of 72 obls. oil. The followers.	i). Allowed cement ling plug. 040-3042. 01. 819 at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 te 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million cu. ft. gis at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell beath of 3251 was reached a well was them shut in to Opened well up on Nov. 9 of 72 bbls. oil. The folla head of 65 bbls. after	i). Allowed cement ling plug. 040-3042. 01. 81a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed hading been shut in
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million ou. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell both of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The foll a head of 65 bbls. after over night. Run tools an	i). Allowed cement ling plug. 040-3042. 01. 81a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed had ng boen shut in it a itated but well
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million ou. ft. gas at 3248. Oil started rising in hell beath of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 bbls. oil. The follahend of 65 bbls. after over night. Run tools am would not flee a min so s	i). Allowed cement ling plug. 040-3042. 01. 8½a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed hading been shut in in a itated but well terted straight-
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million ou. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell both of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The foll a head of 65 bbls. after over night. Run tools an	i). Allowed cement ling plug. 040-3042. 01. 8½a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed hading been shut in in a itated but well terted straight-
Annydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line am sand, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million cu. ft. gas at 3248. Oil started rising in hell beath of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 bbls. oil. The folia head of 65 bbls. after over night. Run tools amount not flue a min so s remain; shoulder at 3226,	i). Allowed cement ling plug. 040-3042. 01. 8½ at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed harding been shut in it a itated but well terted straight- preparatory to
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million ou. ft. gas at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell Death of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 bbls. oil. The foll a head of 65 bbls. after over night. Rem tools am would not flue a min so she cain; shoulder at 3228, settin; 8," casing. Long.	i). Allowed cement ling plug. 040-3042. 01. 8½ at 3228. 1/2 33. At 3233, put boiler back. In- 9 at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed hading been shut in it a fitated but well terted straight- preparatory to ed to 3236, set
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million cu. ft. gis at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell Death of 3251 was reached & well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The folla head of 65 bbls. after over night. Run tools am would not the a min so streeting shoulder at 3228, setting 8," casing. Long 8," at that point am oul	i). Allowed cement ling plug. 040-3042. 01. 81a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed had ng been shut in in a fitated but well terted struight- preparatory to sed to 336, set led out all 121."
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million cu. ft. gis at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell Death of 3251 was reached & well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The follahend of 65 bbls. after over night. Run tools amusid not the a min so sremain; shoulder at 3228, settin; 8," casing. home 8," at thit point aminul cusin; with shoe. Mollaf	i). Allowed cement ling plug. 040-3042. 01. 81a at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o creet tankage. and it flowed a head lowing day, flowed had ng been shut in in a fitated but well terted struight- preparatory to sed to 3256, set led out all 121." lowed a head of
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Small show oil at 3098-31 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million cu. ft. grs at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell Death of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The follahead of 65 bbls. after over night. Run tools amuseld not flown min so s remain; shoulder at 3228, setting 8," casing. home 8," at thit point aminul cusin; with shoe. Not 1 50 bbls. Amen 6," casing	i). Allowed cement ling plug. 040-3042. 01. 81 at 3228. 1/2 33. At 3233, put boiler back. In- e at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed had ng been shut in in a fitated but well tarted struight- preparatory to sed to 3256, set led out all 121. lowed a head of tart set down at
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Small show oil at 3098-31 Small show oil at 3180. Reduced hele from 10" to million on, ft. grs at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell both of 3251 was reached 4 well was then shut in to Opened well up on Nov. 9 of 72 bbls, oil. The follahead of 65 bbls, after over night. Run tools amusild not flown min so streeting shoulder at 3228, setting 8% casing. Long 8% at this point aminut cusing with shoe. Well if 50 bbls, when 6% casing 3236. Commetted up tell	i). Allowed cenent ling plug. 040-3042. 01. 8½ at 3228. 1/2 33. At 3233, put boiler back. In- 9 at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed had ng been shut in it a fitated but well tarted straight- preparatory to ed to 3:36, set led out all 12½." Lowed a head of was sot down at preparatory to
Antydrite, white Line, brown Correction to steel line measurement hime, gray Line, clack Linestone, light broken Line, light Smale, light Line and smad, light Line, white	3005 2974 3040 3098 3101 3156 3179 3200	3040 3 098 3101 3155 3179 3200 3248	Very slight show oil at 3 Small show oil at 3098-31 Show of free oil at 3180. Reduced hele from 10" to million ou. ft. gis at 32 on Master gate and moved crease of gas at 3248. Oil started rising in hell Death of 3251 was reached a well was then shut in to Opened well up on Nov. 9 of 72 obls. oil. The folla head of 65 bbls. after over night. Run tools amusald not flown pin so stream; shoulder at 3228, setting 8," casing. Long 8," at this point amount casing with shoe. Well a 50 bbls. Amon 6," casing 3236. Commented up tell sumbing & billing and at	i). Allowed cenent ling plug. 040-3042. 01. 8½ at 3228. 1/2 33. At 3233, put boiler back. In- 9 at 3248 to 3251. on Nov. 3, 1928 o erect tankage. and it flowed a head lowing day, flowed had ng been shut in it a fitated but well tarted straight- preparatory to ed to 3:36, set led out all 12½." lowed a head of was sot down at errogaratory to wrist swapbing
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Legas No.

County

FREW AND MINEURES DEPARTMENT OIL CONSERVATION DIVISION ----#16 F M 18 UT 10 M P. O. HOX 20AB SANTÀ FE, NEW MEXICO 87501 LAND 077 K.B REQUEST FOR ALLOWABLE AUTHORIZATION TO TRANSPORT OIL AND NATURAL CAS PAURATION DEPICT Lonnie J. Buck Address 901 North Jefferson Hobbs New Mexico 88240 Reason(s) for filing (Check proper box) XI New Well CASINGHEAD GAS MOST NOT Recompletion OIL Dry Goo Castnahead Gas Condensate Change in Ownership UNLESS AN EXCEPTION TO E-1970 If change of ownership give name and address of previous owner..... E OBTAINED. DESCRIPTION OF WELL AND LEASE Legan Numb | Well No. Pool Name, Including Fermatia Monco State, Federal or Fee #2 Jalmat Location 670 Feet From The South Line and 660 25 Township **25S** NMPM. Line of Section Rome 36E DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS King of Authorited Transporter of Oti Address (Give address to which approved copy of this form is to be sent) Box 833 Hobbs, New Mexico Western Oil Transportation ot Dry Cas [] Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Castaghend Gas Midland. Texas Gas Co. El Paso Natural If well produces all or liquids, give location of transa. 25S 36E Not testedi M 25 If this production is commingled with that from any other lease or pool, give commingling order numbers COMPLETION DATA Designate Type of Completion - (X) XX Re-entry Data Speeded Date Compl. Heady to Prod. P. D. T.D. Total Depth 33271 8-22-79 3303" 7-30-79 Elevations (UF, RKB, AT, GR, 212.) "ume of Producing Fermation 🥒 Top Oll/Gas Pay Tubing Depth 30661 3288 Seven Rivers apt's Castry Shot 3264-70; 81-91; 96-98 3326' TUBING, CASING, AND CEMERTING RECORD CASING & TUBING SIZE HOLE SIZE DEPTH SET SACKS CEMENT 3326t 43"-11.60# 61 33x26 3326 DV tool at 2501'. Cemented in 2 stages. Circulated cement W/ 980 sx cement. 2-3/8" tubing SN @ 3253' 3288 (Test must be after recovery of total volume of local oil and must be equal to an exceed top after able for this depth or be for full 24 hours) TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL Cil Run To Tents Productor Method (Figur, pump, and list, ste.) Date First New 8-24-79 8-30-79 Pumping Chote Size Tubing Proseuro Length of Test 24 hrs. vented Actual Prod. Caring Test OH - Bbls. rictet - Bbis. 4 water 26 bbls 22 011 not tested GAS WELL Actual Frod. Tool-MCF/D Length of Test Bbls. Confensate/MMCF Gravity of Condensate Testing Method (pitot, back pr.) Tubing Piesswe (shot-in) Casing Pressure (Shut-In) Choke Sike OIL CONSERVATION DIVISION CERTIFICATE OF COMPLIANCE 7.15/3 APPROVED I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. This form is to be filed in compliance with AULE 1104. Hieroude OwnerOperator

9-5-79

(1)410/

If this is a request for allowable for a newly drilled or despens well, this form must be accompanied by a tabulation of the devicitions taken on the well in accordance with AULE 111.

All sections of this form must be filled out completely for allo-able on new and recompleted wells.

Fill out only Sections I. II. III. and VI for changes of owns all name or number, or transporter, or other such thangs of condition Separate Forms C-104 must be filed for each pool in multipampleted wells.

GIATE OF HEW MEXICO

OR, CONSERVATION DIVISION

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Lonnie J	I. Buck			-	
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El Paso Matural C		Address (One oddress to Midland		ta cobh el tyrs toim is fo	ite sent;
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6. Check Ans			ture of Notice, Report or		
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PL. OF ALTER CASING		· }	COMMENCE DRILLING OPNS.	PLU	G AND ABANDONNENT X
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CTHER					
17. Describe Proposed or Completed Opera	Same (Classic error)		?	32	7
Moved in casing pullers 8- Reran tubing open ended to 3265' to 3100'. Pulled to pulled loose. Pulled 72 end tubing to 2275', spot	o 3260', dis ubing. Shot jts. (2218')	placed oil off casing of 7000 8-	and water with mud. at 2264°, unable to R 20# SS J-55 R-2 ST	Spotted 35 pull; shot	sacks cement off at 2201',
3100-2		and 10th Mills	Heavy mud-laden F	luíð	
2275-2		•	30 Sacks Regular		
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1345-20 201	o. Surface	<u>-</u>	Heavy mud-laden F 20 Sack cement Su		
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Left in hole: 1064' of 7'	°00 2 04 8R (Casing from	2201-32651:1269' of	10-3/4"@ 40	‡ & 32₽
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The pits have been filled	and the loc	cation clear	ed and levelled.		
15. Thereby certify that the information abo	ove is true and com	niete to the hest of	To Enculative and belief		
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	- New Committee		B-8880
	SUNDRY NOTICES AND REPORT	S ON WELLS	
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1.			7, Unit Agreement Name
MEL X MELL	CTHER-		
			E. Farm or Lease Name
SIELLY OIL COMP	ANY		State "Z"
5. Address of Operator			ç, Well No.
P. O. Sox 730 -	Hobbs, New Mexico 88240		1
4. Location of Well			10. Field and Pool, or Wilson
	. 660 FEET FROM THE NO	mth 2310'	Jalmat Jalmat
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	15. Elevation (Show v	hether DF, RT, GR, etc.)	12. County
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PULL OR ALTER CASING	CHANGE PLANE		
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OTHER			
17. Describe Proposed or Comp	leted Crerations (Clearly state all penin	ent details, and give pertinent dates, in	icluding estimated date of starting any proposed
work) SEE RULE 1103.			
State "Z" Well	No. 1 is a producing wel	l in the Jalmat pool.	We propose to plug and
abandon this wa	ell as follows:		
1. Rig	up pulling unit. Pull	rods & tubing.	
	n tubing open ended to 32		
	ot cement plug from 3265'		
	oot 7"OD casing at 2400		
	tubing and spot 30-sack		
6. Spo	ot 20-sack plug in 10-3/4	" casing from 1385'-134	5'.
7. Spc	ot 10-sack plug in top of	10-3/4" casing from 20	to surface.
-		•	
NOTE: Intervals	not camented will be fi	lied with heavy mud-lad	en fluid.
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	ll indicated that remedi		
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li. I hereby certify that the info	ormation above is true and complete to th	e best of my knowledge and helief	
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Exhabit 3

Monco #2
Salt Water Disposal Well
Sac. 25-25S-36E
Lea County, New Mexico

Data On Proposed Operation of Well

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

Average daily rate of 1,000 B/D Maximum daily rate of 2,000 B/D

- 2. System will be closed.
- 3. Proposed average and maximum injection pressure:

Average injection pressure: 0 (Vacuum) Maximum injection pressure: 250 psi

4. (A) Source of injection Fluid: Monco #1

Seven Rivers-Queen Formation

(B) Analysis of Formation Fluid: (milligrams per liter)

Resistivity .190 @ 75 Degrees
Specific Gravity 1.025
Ph 6.5
Calcium 3,250
Magnesium 840
Chlorides 17,500
Sulfates 2,750
Bicarbonate 1,025
Iron - nil

5. Zone of disposal is productive of oil and gas within one mile of proposed disposal well, but those wells are much higher structurally than proposed disposal well.

Exhibit 4

Ref: Para VIII - C-108

Monco #2
Salt Water Disposal Well
Section 25-25S-36B, NMPM
Lea County, New Mexico

Geological Data on Injection Zone

Pool: Jalmat

Formation: Seven Rivers

Geological Name: Seven Rivers

Thickness: 58 feet

Depth: 3221 feet

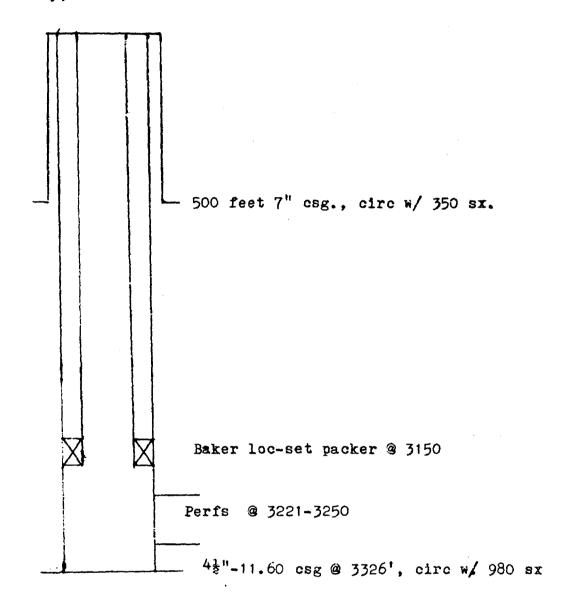
Injection Interval: 19 perforations

19 perforations 3221 feet to 3250 feet

Exhibit & Proposed Water Disposal Well

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Monco #2 Section 25-25S-36B Lea County, New Mexico



LONNIE J. BUCK
Oil Properties

901 North Jefferson Bus. (505) 392-7538 Res. (505) 393-0425 Hobbs, New Mexico 88240

Exhibit 8

Lonnie J. Buck researched available geologic 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 9

In accordance with Section XIV-C-108, applicant has mailed copies of the application to the following:

Surface Owner:

Mr. Fred Cooper Route I Blossom, Texas 75416

Leasehold Operators within one-half mile:

Apollo Oil Company Box 1737 Hobbs, New Mexico

MARALO Box 832 Midland, Texas

Applicant has caused to be published in the Lovington Leader, a newspaper of general circulation in Lea County, the attached notice.

Notice Of Publication

State of New Mexico Energy and Minerals Department Oil Conservation Division Santa Fe, New Mexico

NOTICE: To all persons having any right, title, interest or claim in the following:

Pursuant to the Rules and Regulations of the New Mexico Oil Conservation Commission, Lonnie J. Buck hereby gives public notice that he has applied to the Division for an order approving his Monco #2 well Located 660 feet from the west line and 670 feet from the south line of Section 25, 25S, R36E, NMPM, Lea County, New Mexico as a disposal well in Seven Rivers-Queen formation in the Jalmat Pool at a depth of 3221 feet to 3250 feet at a maximum rate of 2,000 barrels per day at a maximum injection pressure of 250 psi.

Any interested party must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days of the date of publication of this notice.

KELLAHIN & KELLAHIN Attorneys at Law P.O. Box 1769 Santa Fe, New Mexico 87501 (505) 982-4285 Attorneys for Lonnie J. Buck

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