CASE 5624: HARRIS & WALTON FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO

CASE NO.

5624

APPlication,
Transcripts,
Small Exhibits,

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 4, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Harris & Walton for salt) water disposal, Lea County, New Mexico.)

CASE 5624

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

William F. Carr, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant:

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

INDEX Page H. R. HARRIS Direct Examination by Mr. Kellahin Cross Examination by Mr. Stamets EXHIBIT INDEX Page Applicant's Exhibit No. One, Plat Applicant's Exhibit No. Two, Plat Applicant's Exhibit No. Three, Diagram Applicant's Exhibit No. Four, Cross Section Applicant's Exhibit No. Five, Log Applicant's Exhibit No. Six, Log Applicant's Exhibit No. Seven, Log

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MR. STAMETS: We will call next Case 5624.

MR. CARR: Case 5624, application of Harris & Walton for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: Tom Kellahin, Kellahin and Fox, Santa Fe, New Mexico, appearing for Harris and Walton and we have one witness to be sworn.

MR. STAMETS: If you will stand and be sworn, please?

(THEREUPON, the witness was duly sworn.)

H. R. HARRIS

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q. Mr. Harris, would you please state your name and address?
 - A. I'm H. R. Harris from Midland, Texas.
- Q. And what is your interest in this particular application?
 - A. I'm a partner in the firm of Harris and Walton.
 - Q You are the owner of this lease and the operator of this lease in question, is that correct?
 - A. Correct.

	Q.	Have you previously testified before this Commission?
	A.	No, I haven't.
-	Q.	Would you please describe briefly for the Commission.
У	our back	ground in the oil and gas industry?
	A.	I attended Texas A & M for two years in the
n	etroleum	n production engineering and worked for Sun Oil
•	rompany i	for fifteen years in drilling, production, land and
,	in vario	us departments and I have been independent since 1951.
<u>.</u>	Q.	How long have you drilled and operated oil and gas
	•	New Mexico?
	A.	I believe we acquired our first property there or
		in it in 1960.
	Q.	And you have been actively pursuing the oil and
		perties in New Mexico since that date?
	Ä,	Correct.
	Q.	And when did you acquire this particular lease in
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	A.	In 1960. I believe that's correct. We got it on
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		MR. KELLAHIN: If the Examiner please, are the
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' 2		MR. STAMETS: They are.
3	Q	(Mr. Kellahin continuing.) Mr. Harris, would you
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refer to what has been marked as Applicant's Exhibit Number

One and identify that, please?

A. It is a plat covering our lease in the Jalmat field	•
It covers production in the Yates-Seven Rivers formation and	
on Section 4, that's 24, 26, our lease covers the east half	
of Section 4 and forty acres out of the northeast corner of	
the northwest quarter of Section 4.	

- Q. What does the color code indicate, Mr. Harris?
- A. The red circles indicate producers, the green, water disposal wells, produced water disposal wells.
- Q. These producing wells are producing from what formation?
- A. Primarily from the Yates and the very upper part of the Seven Rivers formation.
 - Q Please refer to Exhibit Number Two and identify it?
- A. It is a plat similar to the one we just looked at, except it's on a larger scale and setting out the well in question that we propose to dispose of the water in.
- Q. Your proposed disposal well is in the northwest quarter of Section 4, circled in red?
 - A. Correct.
 - Q. And it is Well Number 1 Whitten?
- A. Number 1 Whitten, right. And I believe we have a Skelly water well on which Skelly has the water rights. They have drilled two wells in which they acquired water out of the lower Seven Rivers-Capitan and used it for water flood water on other leases.

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- A. At the Number 6 Well is the well they drilled.
- Q Why are you seeking a salt water disposal well?
- A. Well, at the present time our Number 5 Well which is classed as a water disposal well and it is higher in structure, on the structure, than the Number 1 Well which we plan to dispose, it's down dip.
- Q. That Number 5 Well is located in the northwest of the northeast of Section 4?
- A. Correct. And we propose to convert the Number 1
 Well to a water disposal well and recomplete the Number 5 in
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- Q. And the Number 5 Well is currently your disposal well?
 - A Correct.
- Q. What is the volume of water being disposed of in the Number 5 Well at this time?
 - A. Between twenty and thirty barrels.
- Q And what is your anticipated disposal in the Number 1 Well?
- A. Well, at the present time, disposal of the same amount of water but eventually we plan to do rework operations in the area and anticipate that when you produce from the Seven Rivers you are naturally going to get some water with your production, it's unavoidable and we will have additional

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Q.	What is	the source	of the disposal water?	
A.	Primari:	ly from the	upper Seven Rivers and the	

Q And from what wells?

Yates formations.

A. Right now, Wells Number 3 and 4, the producers on the east half of Section 4, is going into that Well Number 5.

Are there any other wells hooked into that disposal?

A. Well, we own the southeast quarter of Section 33 in the Township north and Wells Number 1 and 2 are now producing and we anticipate rework on that and would ask to carry this water over to this particular well.

Q Would you turn your attention now to Exhibit Number
Three and identify it?

A. Three is a diagram of the proposed casing and tubing packer hookup on the disposal well.

Q Will you fill the annular space here in your diagram?

A. Yes, we set our packer, or actually we fill this annulus space with a fresh water and a two percent solution of KCL and then put inhibitor in it and that will be the inert water between the annulus and the tubing and the casing.

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The seven-inch casing is set at thirty-five, oh,

seven and our total depth is thirty-seven, sixty-one. The disposal interval will be approximately at thirty-seven, sixty-one. The well was deepened sometime ago by another party before we acquired it and since then we have run some tests on it and it will take a considerable amount of water on a vacuum.

- Q. This will be on a vacuum as opposed to under pressure?
- A. Right.
- Q. What type of surface installation will you have that will allow you to monitor any potential leakage from this injection?
- A. Well, our tubing will be set on a tubing head and, of course, we will have two-inch outlets with gauges in case there is any pressure buildup of any type it will be indicated.
- O. In the event that the formation will not take the disposal water, what will happen to it?
- A. Well, at our tank battery we have a water disposal tank and on it is an emergency overflow, it goes out to a pit and if something happens it will go into this pit and, of course, we have a pumper that goes by there at least once and should go by there twice a day and he should detect it whenever something happens.
 - Q. Is there any potential for contamination of fresh water in the area or fresh water sources?
 - A. I don't feel that there is. This particular well

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has thirteen and three-eighths and at three, seventeen we circulated cement and nine and five-eighths at fifteen, twenty-two and it circulated and I believe that the casing is more than adequately protected really, exceptionally.

Q. Would you turn your attention to Exhibit Number Four and identify it?

A. It is a cross section prepared by Frank Glaze, an independent geologist in Midland and it is an east-west cross section. On the west we have the proposed water disposal well and in the middle is the Skelly Oil Well Number 6 and on the east is our producing well Number 3. And it shows the dip of the Yates and the Seven Rivers, which indicates that we will be disposing of the water on the down-throw side and into the lower part of the Seven Rivers, which is a water dry formation and actually we will be putting practically the the same water back in that we are taking out.

- Q Please refer to Exhibits Five, Six and Seven and identify these, please?
- A. Well, they are logs, gamma ray neutron logs, on the three previous wells that we have mentioned here in the cross section.
- O In your opinion, Mr. Harris, will the granting of this application be in the best interests of conservation, prevention of waste and the protection of correlative rights?

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Were Exhibits One through Seven either prepared by you directly or compiled under your direction and supervison?

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

These exhibits will be admitted. MR. STAMETS: (THEREUPON, Applicant's Exhibits One through Seven were admitted into evidence.)

CROSS EXAMINATION

Mr. Harris, as far as you know, this well will take BY MR. STAMETS:

all of the water you plan to put in it on a vacuum?

In test and the well, I'm sure, will take up to five hundred barrels a day on a vacuum. That lower part of that Seven Rivers which might be actually into the Capitan there, it's getting very low there but highly porous and there is no telling how much water you could pour into all of that.

Do you know if there is a significant difference in the quality of the water that you are going to be injecting into this reservoir and the water that is already there?

From our general experience it is practically the same water and what little water we do get out of the Yates Sid morrish reporting service

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might be a little saltier. Primarily your Seven Rivers is sulphur water with a few solids and various things of that type. Your Yates may be just slightly saltier but there is very little Yates water involved in it.

- Q. Do you have an analysis of the produced water?
- A. No, he asked me that this morning and we didn't have one available.
 - Q Could you submit one at a later date?
 - A. Yes.
 - O That will be fine.
 - A. Do you want it of the injected or produced water?
 - Q The water that you are going to be disposing of.
 - A. All right.
- Q If the well is taking water on a vacuum, how will you be able to determine if there is a leak in the tubing, would you have to pressure up on the annular space?
 - A. Well, you mean after a period of time?
 - Q Yes.
- A. Well, there should be a loss of the fluid between the annulus and the tubing if we get a hole in that tubing. In other words, the well being on a vacuum, it will suck that KCL water, the inhibited water, right on out, down to the hole anyway.
- Q Will the well be equipped in such a manner that it will be easily observable?

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- Q. How will you determine if you have a vacuum on there?
- A. Just open the valve and hold your hand over it and the way that Seven Rivers sucks that water in there it will nearly suck your hand in that valve.
- Q. However, the pressure on the annular space would definitely show whether or not there was a leak?
- A. Oh, yes, if you've got a vacuum on it, why the first thing we would do is put a water truck on there with a pump and find out what our problem was.
- Q Would it cause any problem if the provision of the order stated that before any pressure was used on this well approval would have to be made by the Secretary-Director of the Commission?
 - A. It would be all right with us.

MR. KELLAHIN: Would we be able to obtain that approval administratively?

MR. STAMETS: Yes, that's what I had in mind.

MR. KELLAHIN: Just apply for it administratively without a hearing?

MR. STAMETS: Yes.

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(THEREUPON, the witness was excused.) MR. STAMETS: Anything further in this case? We

Any other questions of this witness?

REPORTER'S CERTIFICATE

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

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I do hereby certify that the foregoing is I do hereby certify that the proceedings in a complete record of the proceedings in the Prominer hearing of Case No. 5624. the Examiner hearing of Case No New Mexico Oil Conservation Commission

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 4, 1976 EXAMINER HEARING Application of Harris & Walton for salt) CASE water disposal, Lea County, New Mexico.) 5624 BEFORE: Richard L. Stamets, Examiner

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 - A. I'm a partner in the firm of Harris and Walton.
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4	your background in the oil and gas industry?
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6	petroleum production engineering and worked for Sun Oil
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9	Q How long have you drilled and operated oil and gas
10	wells in New Mexico?
11	A. I believe we acquired our first property there or
12	interest in it in 1960.
13	Q And you have been actively pursuing the oil and
14	gas properties in New Mexico since that date?
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A. It will have the regular tubing head sealed off on it and you will have a sealed chamber in between your annulus and you go up there and find a vacuum on it, you know you've got some kind of a problem.

- A How will you determine if you have a vacuum on
 there?
- A. Just open the valve and hold your hand over it and the way that Seven Rivers sucks that water in there it will nearly suck your hand in that valve.
- Q However, the pressure on the annular space would definitely show whether or not there was a leak?
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Any other questions of this witness? He may be

MR. STAMETS: Anything further in this case? We will take the case under advisement.

(THEREUPON, the witness was excused.)

REPORTER'S CERTIFICATE

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

Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 562

New Mexico Oil Conservation Commission

sid morrish reporting service

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Phone (505) 982-9212



OIL CONSERVATION COMMISSION

P. O. BOX 2088 - SANTA FE

87501

DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

Re:



STATE GEOLOGIST EMERY C, ARNOLD

Mr. Tom Kellahin	
Kellahin & Fox	:
Attorneys at Law	ing to Security 1
Post Office Box 17	
Santa Fe, New Mexi	lco

CASE NO	5624	<u> </u>	
ORDER NO	R-5167		

Applicant:

Harris & Walton

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY

Director

JDR/fd

Copy of order also sent to:

Hobbs OCC X
Artesia OCC Aztec OCC

Other____

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> Case No. 5624 Order No. R-5167

APPLICATION OF HARRIS & WALTON FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 4, 1976, at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 24th day of February, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Harris & Walton, is the owner and operator of the H. Whitten Well No. 1, located in Unit C of Section 4, Township 24 South, Range 36 East, NMPM, Jalmat Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Yates-Seven Rivers formation, with injection into the open-hole interval from approximately 3,507 feet to 3,761 feet.
- (4) That the injection should be accomplished through 2 7/8-inch plastic lined tubing installed in a packer set at approximately 3200 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 into said well should be under pressure, the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1800 psi.

-2-Case No. 5624 Order No. R-5167

- (6) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Harris & Walton, is hereby authorized to utilize its H. Whitten Well No. 1, located in Unit C of Section 4, Township 24 South, Range 36 East, NMPM, Jalmat Pool, Lea County, New Mexico, to dispose of produced salt water into the Yates-Seven Rivers formation, injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 3200 feet, with injection into the open-hole interval from approximately 3,507 feet to 3,761 feet;

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

- (2) That if injection into said well shall be under pressure the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1800 psi.
- (3) That if injection into said well is under a vacuum, the operator shall conduct an annual pressure test of the casing-tubing annulus to determine leakage of the casing, tubing, or packer in said well.
- (4) That the operator shall notify the Hobbs office of the Commission of the date and time of such pressure tests in order that they may be witnessed by a Commission representative.
- (5) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

-3-Case No. 5624 Order No. R-5167

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

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

PHIL B. LUCERO, Chairman

Clevely Clarked Manuer

JOE D. RAMEY, Member & Secretary

SEAL

KELLAHIN AND FOX
ATTORNEYS AT LAW
600 DON GASPAR AVENUE
POST OFFICE BOX 1769
SANTA FE, NEW MEXICO B7501

JASON W. KELLAHIN ROBERT E. FOX W. THOMAS KELLAHIN

February 9, 1976

TELEPHONE 982-4315 AREA CODE 505

OIL SE 10 1976

Mr. Richard Stamets
New Mexico Oil Conservation
Commission
P. O. Box 2008
Santa Fe, New Mexico 87501

Re: OCC Case No. 5624 Harris & Walton

Dear Mr. Stamets:

In accordance with your request at the hearing on the above case on February 4, 1976, I am enclosing copies of the water analysis on the three wells that produce water to be disposed of in the H. Whitten No. 1 well.

Very truly yours,

W. Thomas Kellahin

CC: Mr. Randell Harris

WTK:kjf

Enclosure



DWELL division of the do

CHEMICAL COMPANY

FIELD LABORATORY REPORT WATER ANALYSIS

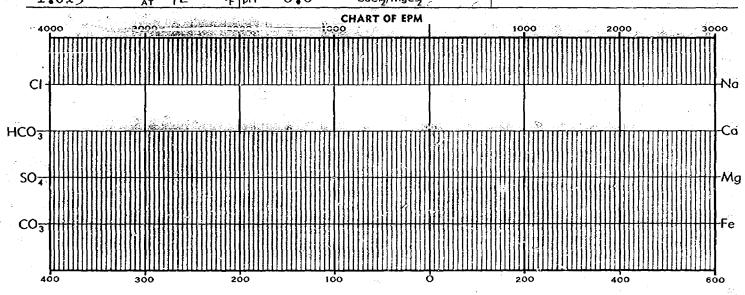
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LABORATORY LOCATION	REPORT NUMBER		
Hobbs, N.M.	#4758		
Saxey Oil Corp	C.W. Whitten B-3		
Poor Jalmat	Sec 4-T24 R36		
COUNTY	STATE		
Lea	New Mexico		
FORMATION	DEPTH		
Lower Yates	3543- 3556		
SUBMITTED BY	TESTS DESIRED		

MPLE	SOURCE
	Danadination
	Production

DATE SAMPLE SUBMITTED
12-2-64

Production		W/A			
	PPM	EPM		PPM	EPM
CALCIUM	1578	77:3	CHLORIDE	15739	440.6
MAGNESIUM	1581	129.6	SULFATE	780	16.3
SODIUM	6214	267.2	BICARBONATE	1081	17.2
IRON			CARBONATE		
HYDROGEN SULFIDE	e.		HYDROXIDE	i en	
SPECIFIC GRAVITY	72 %	_{вн} 6.8	CoCh/MoCh	% SALT SATURATIO	N



REMARKS:

No Mud in Sample

Emulsion was present - Although most water had broken out.

R.L. Ball

TRETOLITE DI SION
369 Marshall Avenue / Saint Louis, Missouri 63/19
(314) WO 1-3500/IWX 910-760-1660/Tetex 44-2417

FEB 10 1976 MINATER ANALYSIS REPORT

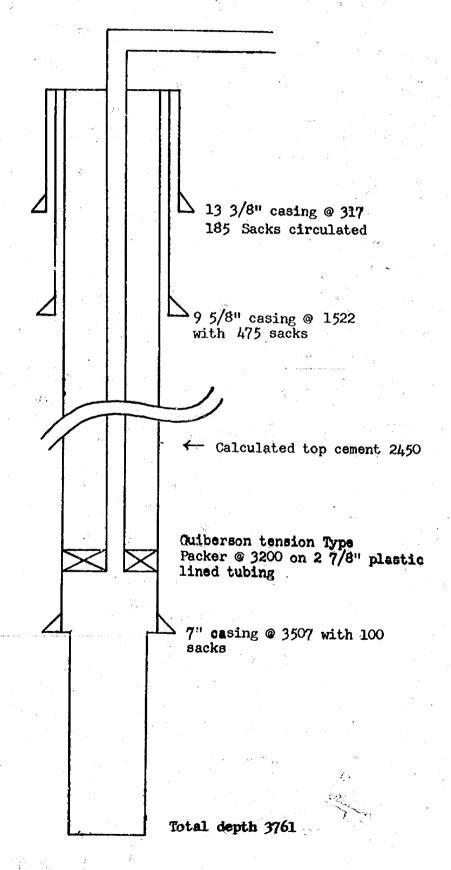
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SAMPLE NO.	
THE STATE OF THE	WESTERN COMPANY
AL CONSERVATION COMMA.	Service Laboratory Midland, Texas PHONE MU 3-2781 DAY PHONE MU 3-4162 NIGHT
Same 15	WATER ANALYSIS
County Lea, N. M.	Date Sampled 6-29-60
Field Jalmat	Date Received 6-30-60
Operator Ed. E. Watts Harris 4	Walton Submitted By Mr. H. R. Harris
Well Whitten J- #/	Worked By Jim Looney
Sea. 33, 7-23-5, R-36. E	Other Description Well head sample
Formation Brown Lime	
CHEMIC	CAL DETERMINATIONS as parts per million
Density <u>1.005</u>	pH
Ironnone	Hydrogen Sulfide none
Sodium and Potassium 3220	Bicarbonate 549
Calcium680	Sulfate 680
Magnesium	Phosphate
Chloride7,600	as Sodium Chloride
TOTAL ppm	
Resistivity	ohm-meters
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Remarks:	
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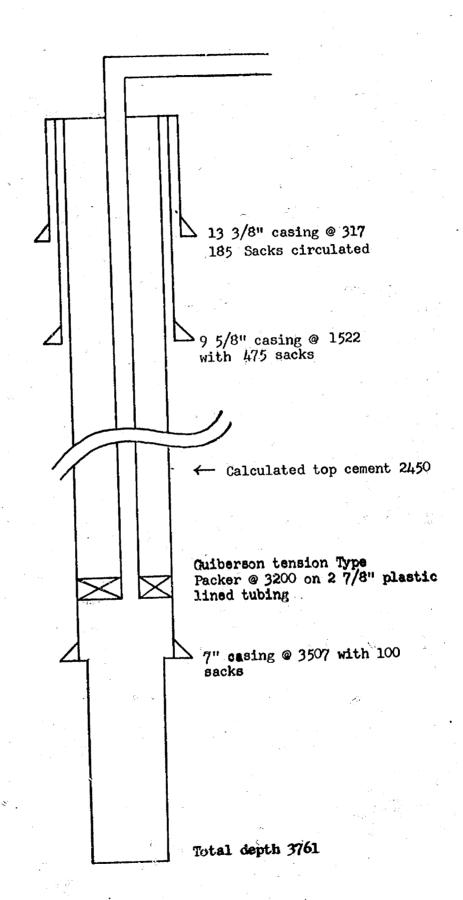


Proposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T245, R36E
Jalmat Pool
Lea County, New Mexico

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
HARRIS EXHIBIT NO. 3
CASE NO. 5624
Submitted by HARRIS
Hearing Date 4 Feb. 74

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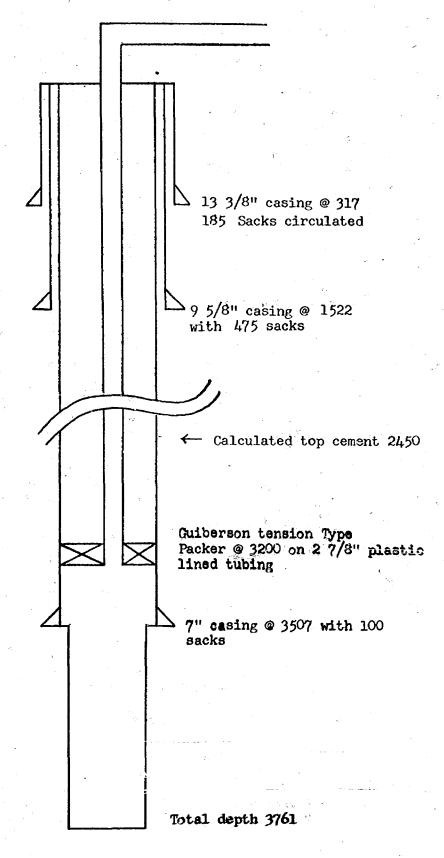
Proposed for: Harris & Walton H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T24S, R36E
Jalmat Pool Lea County, New Mexico

Case 5624 Exhibit 3

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DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



roposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T245, R36E
Jalmat Pool
Lea County, New Mexico

Case 5624 Exhibit 3 Dockets Nos. 6-76 and 7-76 are tentatively set for hearing on February 18 and March 3, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 4, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,

STATE LAND OFFICE BUILDING - SANYA FE, NEW MEXICO
The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

Application of Champlin Petroleum Company for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waverflood project in the Chaveroo-San Andres Pool by the injection of water into the San Andres formation through its Farrell Federal Well No. 4, located in Unit P of Section 30, Township 7 South, Range 33 East, Roosevelt County, New Mexico. Applicant further seeks an administrative procedure for approval of additional wells at standard and non-standard locations within the project area.

CASE 5397: (Reopened)

In the matter of Case 5397 being reopened pursuant to the provisions of Order No. R-4949, which order established the North Burton Flats-Wolfcamp Gas Pool, Eddy County, New Mexico, and promulgated special pool rules therefor, including a provision for 320-acre spacing and proration units. All interested parties may appear and show cause why said special pool rules should or should not remain in effect.

- Application of El Paso Natural Gas Company for doumhole commingling, Rio Arriba County, New Mexico. CASE 5621: Applicant, in the above-styled cause, seeks approval to commingle Basin-Dakota and Blanco-Mesaverde gas production in the wellbore of its Jicarilla 119N Well No. 4, located in Unit H of Section 6, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.
- CASE 5622: Application of Texaco for determination of charges and costs, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the determination by the Commission of reasonable well costs, and the applicability of the charge for risk to certain items of expense, for the William G. Ross A. O. Rogers Well No. 1, located in Unit P of Section 3, Township 18 South, Range 26 East, Eddy County, New Mexico, to which is dedicated the E/2 of said Section 3, said lands having been pooled by Commission Order No. R-4980.
- Application of Amoco Production Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection into the Lower Delaware formation through the perforated interval from 3376 to 3400 feet in its Old Indian Draw Well CASE 5623: No. 4, located in Unit I of Section 18, Township 22 South, Range 28 East, Indian Draw-Delaware Pool, Eddy County, New Mexico.
- Application of Narris & Walton for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water into the Yates-Seven Rivers formation through the open-hole interval from 3507 feet to 3761 feet in its H. Whitten Well No. 1, CASE 5624: located in Unit C of Section 4, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- Application of Walter W. Krug dba Wallen Production Co, for an exception to Order R-111-A, Lea CASE 5625: County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Potash-Oil Area casing-cementing rules for his Wallen Fee Well No. 1, located 330 feet from the North line and 990 feet from the West line of Section 28, Township 20 South, Range 34 East, Lea County, New Mexico, to permit completing said well with a shallow-cavings string cemented in and with 7-inch production casing to the top of the pay and a 4 1/2-inch liner through the pay, all cemented to the surface.
- Southeastern New Mexico nomenclature case calling for an order for the creation, abolishments, and extension of certain pools in Eddy and Lea Counties, New Mexico. CASE 5626:
 - (a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Carlsbad-Strawn Cas Pool. The discovery well is the Belco Petroleum Corporation Union Mead Com Well No. 1, located in Unit H of Section 8, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 8: All Section 17: N/2

(b) CRFATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the East Carlsbad-Morrow Gas Pool. The discovery well is the Champlin Petroleum Company Pecos Federal Well No. 1, located in Unit C of Section 1, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOUNSHIP 21 SOUTH, RANGE 27 FAST, NMPM Section 35: All Section 36: W/2

Examiner Hearing - Wednesday - February 4, 1976

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM Section 1: N/2 Section 2: N/2

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the East Cadsbad-Strawn Gas Pool. The discovery well is the Champlin Petroleum Company Pecos Federal Well No. 1, located in Unit C of Section 1, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 FAST, NMPM Section 1: N/2

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the La Huerta-Strawn Gas Pool. The discovery well is the Cities Service Oil Company Tracy A Com Well No. 1, located in Unit C of Section 33, Township 21 South, Range 27 Fast, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 33: N/2

(e) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Monombre-Pennsylvanian Pool. Said pool would consolidate the vertical limits and acreage of the abolished Nonombre Lower-Pennsylvanian, Nonombre Middle-Pennsylvanian and the Monombre Upper-Pennsylvanian Pools. New pool to be governed by the rules of the abolished Nonombre Lower-Pennsylvanian Pool under Order R-2929. Said pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM Section 32: All

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Robinia Draw-Morrow Gas Pool. The discovery well is the American Quasar Petroleum Company of New Mexico Robinia Draw Unit Well No. 1, located in Unit K of Section 7, Township 23 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM Section 7: W/2

(g) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Morth Sanmal-Pennsylvanian Pool. The discovery well is the Dalco Oil Company Bell 17 State Well No. 1, located in Unit G of Section 17, Township 16 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, MMPM Section 17: NE/4

(h) ABOLISH the Nonombre Lower Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM Section 32: SW/4

(i) ABOLISH the Nonombre Middle-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM Section 32: E/2 NW/4 and W/2 NE/4

(j) ABOLISH the Novombre Upper-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM Section 32: E/2 and SW/4

(k) EXTEND the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 32: S/2 NE/4 and NM/4 SM/4

(1) EXTEND the Burton Plat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NHPM Section 12: S/2
Section 13: E/2

TOWNSHIP 21 SOUTH, RANGE 27 FAST, RMPM Section 2: Lots 11, 12, 13, 14 & SW/4 Section 15, 16, 21, 22, & 28: All Section 33: N/2

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Examiner Rearing - Wednesday - February 4, 1976

(m) EXTEND the Eurton Flat-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 15: All

(n) EXTEND the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM

TOWNSHIP 22 SOUTH, RANGE 27 Section 3: /N/2
Section 4: All
Section 5: E/2
Sections 8, 9, 17 & 18: All
Section 20: W/2

(o) EXTEND the Eagle Creek-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM Section 13: N/2 NW/4

(p) EXTEND the Eumont Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM Section 33: NW/4 and SW/4 NE/4

(q) EXTEND the Los Medanos-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NNPM Section 6: E/2

(r) EXTEND the Lovington-Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM

Section 3: NW/4 Section 4: NE/4

(s) EXTEND the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM Section 36: SE/4

TOWNSHIP 17 SOUTH, RANGE 34 FAST, NMPM

Section 9: SE/4

(t) EXTEND the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM Section 11: E/2

(u) EXTEND the Wantz-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 14: NE/4

(v) CONTRACT the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, by the deletion of the following described lands:

TOWNSHIP 20 SOUTH, RANGE 25 FAST, NMPM Sections 31 & 32: All

TOWNSHIP 21 SOUTH, PANGE 24 EAST, NAPM Sections 4 & 5: All

(w) EXTEND the Cemetary-Morrow Gas Pool in Eddy County, New Mexico, to include the following described

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM

Section 31: All Section 32: W/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM Sections 4 & 5: All

(ase 5624 4 CONSERVATION COMM CODES TO PHONE NUMBERS 393-2727 - 393-2017

Oil Reports and Gas Services, Inc.

P. O. BOX 763

HOBBS, NEW MEXICO 88240

January 14, 1976

State of New Mexico Oil Conservation Commission P. 0. Box 2088 Santa Fe, New Mexico 87501

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

Applicant proposes to inject into their H. Whitten No. 1, located 330' from North line and 2310 from West line of Section 4, T24S, R36E, open hole interval 3507 to 3761 feet, classified as Jalmat pool.

Control of said injection to be obtained by running 2 7/8" plastic lined tubing with a packer set at 3200 feet as shown by the attached sketch.

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

Gackle Oil Company P. O. Box 2038 Hobbs, N. M. 88240 Graham-Paige Co. of Texas 804 Scanlon Building Houston, Texas 77002

P. O. Box 1351 Midland, Texas 79701

Mrs. Truman Spencer P. O. Box 6 Ruidoso Downs, N.M. Worldwide Energy Corporation 303 Gulf Building Midland, Texas 79701

Yours very truly,

OIL REPORTS AND GAS SERVICES, INC.

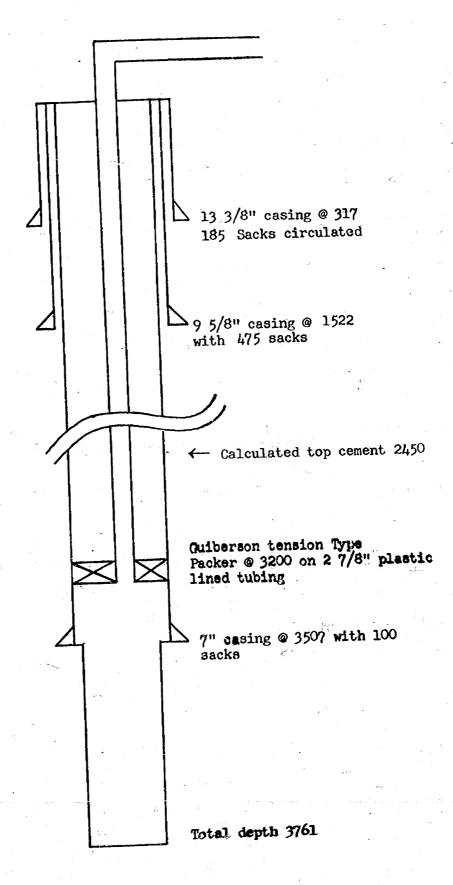
(Mrs.) Donna Holler

DH/1s

Harris & Walton P. O. Box 187 Midland, Texas 79701

DOCKET MAILED

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T24S, R36E
Jalmat Pool
Lea County, New Mexico

A STATE OF THE STA

Oll Reports and Gas Services, Inc. P. O. BOX 763 HOBBS. NEW MEXICO 88240

January 14, 1976

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Mrs. Trumen Spencer P. O. Box 6 Kuidoso Downs, N.M. Worldwide Energy Corporation 303 Gulf Building Midland, Texas 79701

Yours very truly,

OIL REPORTS AND GAS SERVICES, INC.

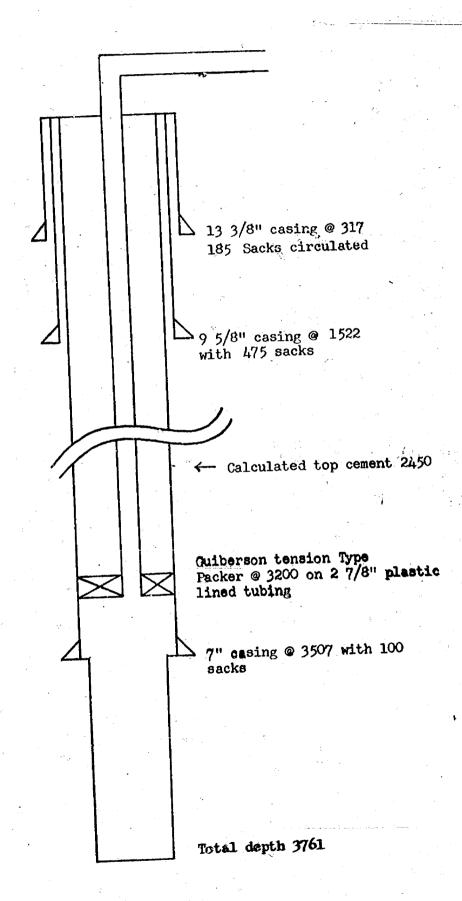
Aven A Departs Holler

DH/1#

co: Harris & Walton P. O. Box 187 Midland, Texas 79701

Sayin and heart stands the saint adopted the

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T245, R36E
Jalmat Pool
Lea County, New Mexico

Case 5624

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

January 14, 1976

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

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Mrs. Trumen Spencer P. O. Box 6 Ruidoso Downs, N.N. Worldwide Energy Corporation 303 Gulf Building Midland, Texas 79701

Yours very truly,

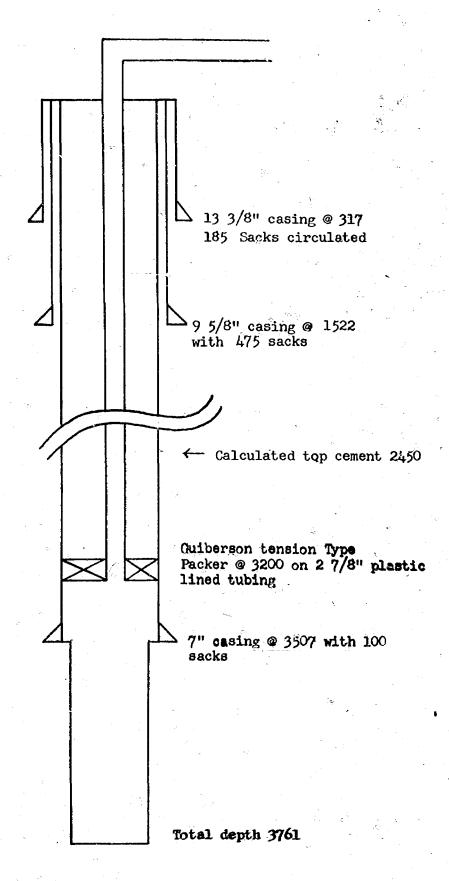
OIL REPORTS AND GAS SERVICES, INC.

(Mrs.) Downa Holler

DH/15

P. O. Box 187
Hidland, Texas 79701

DIAGRAMMATIC SKETCH of Proposed Installation of Water Injection Equipment



Proposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T24S, R36E
Jalmat Pool
Lea County, New Mexico

dr/

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

e

CASE NO. 5624

APPLICATION OF HARRIS & WALTON FOR SALT Order No. R-5/67 WATER DISPOSAL, LEA: COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 4, 1976, at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

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

FINDS:

	(1)	That due	publi	c notice	having	been	given	as I	requi	ired	by.
law,	the	Commission	has	jurisdic	tion of	this	cause	and	the	sub:	ject
matte	er tl	hereof.		And the second							

are (2) That the applicant Warris & Walton,	
15 % the owner and operator of the H. Whitten We	ll No. 1,
located in Unit C of Section 4 , Township 24	South,
Range 36 East , NMPM, Jalmat Pool	is \$1% its first in organity selecting per a great selection of the select
Lea County, New Mexico.	

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the <u>Yates-Seven Rivers</u> formation, with injection into the <u>open-hole</u> interval from approximately 3,507 feet to 3,761 feet.

(4) That the injection should be accomplished through
set at approximately 3200 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

or packer.

- or packer. The injection in to said well should be under present,

 (4) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than the injection well to no more
- (5) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (6) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (7) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Harris & Walton
Is hereby authorized to utilize is H. Whitten Well No. 1
located in Unit C of Section 4 , Township 24 South ,
Range 36 East , NMPM, Jalmat Pool ,
Lea County, New Mexico, to dispose of produced salt
water into the Yates-Seven Rivers formation, injec-
tion to be accomplished through 2 1/8 -inch
tubing installed in a packer set at approximately 3200 feet,
with injection into the open-hole interval from approximately
3,507 feet to 3,761 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure 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.

OK->

-3- CASE NO. That if injection into said well shall

(2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 700 psi. 1800 psi

(3) (4)
(5) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

That the operator shall immediately notify the supervisor of the Commission's <u>Hobbs</u> 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.

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

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

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

(3) That it injection into said well is under a vacuum the said well is the operator when I conduct an annual pressure test of the cusing. Tubing annulus to determine leakage of the casing, thing, or packer in said well.

(4) That the operator shall notify the Thobbs office of the Commission the Hobbs office of the Commission of the date and time of such of the date and time of such pressure tests in order that they pressure tests in order that they