

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

CASE NO.

5624

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,

ETC.

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) CASE
water disposal, Lea County, New Mexico.) 5624

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

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1 MR. STAMETS: We will call next Case 5624.

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

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

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

9 (THEREUPON, the witness was duly sworn.)

10
11 H. R. HARRIS

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

14
15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q Mr. Harris, would you please state your name and
18 address?

19 A I'm H. R. Harris from Midland, Texas.

20 Q And what is your interest in this particular
21 application?

22 A I'm a partner in the firm of Harris and Walton.

23 Q You are the owner of this lease and the operator
24 of this lease in question, is that correct?

25 A Correct.

1 Q Have you previously testified before this Commission?

2 A No, I haven't.

3 Q Would you please describe briefly for the Commission
4 your background in the oil and gas industry?

5 A I attended Texas A & M for two years in the
6 petroleum production engineering and worked for Sun Oil
7 Company for fifteen years in drilling, production, land and
8 in various departments and I have been independent since 1951.

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?

15 A Correct.

16 Q And when did you acquire this particular lease in
17 question?

18 A In 1960. I believe that's correct. We got it on
19 a farmout from Sinclair.

20 MR. KELLAHIN: If the Examiner please, are the
21 witness's qualifications acceptable?

22 MR. STAMETS: They are.

23 Q (Mr. Kellahin continuing.) Mr. Harris, would you
24 refer to what has been marked as Applicant's Exhibit Number
25 One and identify that, please?

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

6 Q. What does the color code indicate, Mr. Harris?

7 A. The red circles indicate producers, the green, water
8 disposal wells, produced water disposal wells.

9 Q. These producing wells are producing from what
10 formation?

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12 of the Seven Rivers formation.

13 Q. Please refer to Exhibit Number Two and identify it?

14 A. It is a plat similar to the one we just looked at,
15 except it's on a larger scale and setting out the well in
16 question that we propose to dispose of the water in.

17 Q. Your proposed disposal well is in the northwest
18 quarter of Section 4, circled in red?

19 A. Correct.

20 Q. And it is Well Number 1 Whitten?

21 A. Number 1 Whitten, right. And I believe we have a
22 Skelly water well on which Skelly has the water rights. They
23 have drilled two wells in which they acquired water out of
24 the lower Seven Rivers-Capitan and used it for water flood
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1 Q Where?

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3 Q Why are you seeking a salt water disposal well?

4 A Well, at the present time our Number 5 Well which
 5 is classed as a water disposal well and it is higher in
 6 structure, on the structure, than the Number 1 Well which
 7 we plan to dispose, it's down dip.

8 Q That Number 5 Well is located in the northwest of
 9 the northeast of Section 4?

10 A Correct. And we propose to convert the Number 1
 11 Well to a water disposal well and recomplete the Number 5 in
 12 the upper part of the Yates as a producer.

13 Q And the Number 5 Well is currently your disposal
 14 well?

15 A Correct.

16 Q What is the volume of water being disposed of in
 17 the Number 5 Well at this time?

18 A Between twenty and thirty barrels.

19 Q And what is your anticipated disposal in the
 20 Number 1 Well?

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 22 amount of water but eventually we plan to do rework operations
 23 in the area and anticipate that when you produce from the
 24 Seven Rivers you are naturally going to get some water with
 25 your production, it's unavoidable and we will have additional

1 water probably to dispose of.

2 Q What is the source of the disposal water?

3 A Primarily from the upper Seven Rivers and the
4 Yates formations.

5 Q And from what wells?

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

8 Q Are there any other wells hooked into that disposal?

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

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

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

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

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

23 Q What will be the interval of disposal in this
24 formation?

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

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

7 Q This will be on a vacuum as opposed to under pressure?

8 A Right.

9 Q What type of surface installation will you have
10 that will allow you to monitor any potential leakage from
11 this injection?

12 A Well, our tubing will be set on a tubing head and,
13 of course, we will have two-inch outlets with gauges in case
14 there is any pressure buildup of any type it will be indicated.

15 Q In the event that the formation will not take the
16 disposal water, what will happen to it?

17 A Well, at our tank battery we have a water disposal
18 tank and on it is an emergency overflow, it goes out to a
19 pit and if something happens it will go into this pit and,
20 of course, we have a pumper that goes by there at least once
21 and should go by there twice a day and he should detect it
22 whenever something happens.

23 Q Is there any potential for contamination of fresh
24 water in the area or fresh water sources?

25 A I don't feel that there is. This particular well

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

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10 disposal well and in the middle is the Skelly Oil Well Number
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12 shows the dip of the Yates and the Seven Rivers, which
13 indicates that we will be disposing of the water on the
14 down-throw side and into the lower part of the Seven Rivers,
15 which is a water dry formation and actually we will be putting
16 practically the the same water back in that we are taking
17 out.

18 Q Please refer to Exhibits Five, Six and Seven and
19 identify these, please?

20 A Well, they are logs, gamma ray neutron logs, on
21 the three previous wells that we have mentioned here in the
22 cross section.

23 Q In your opinion, Mr. Harris, will the granting of
24 this application be in the best interests of conservation,
25 prevention of waste and the protection of correlative rights?

1 A. Yes, sir.

2 Q. Were Exhibits One through Seven either prepared
3 by you directly or compiled under your direction and super-
4 vision?

5 A. Right.

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

8 MR. STAMETS: These exhibits will be admitted.
9 (THEREUPON, Applicant's Exhibits One
10 through Seven were admitted into evidence.)
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12 CROSS EXAMINATION

13 BY MR. STAMETS:

14 Q. Mr. Harris, as far as you know, this well will take
15 all of the water you plan to put in it on a vacuum?

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

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

24 A. From our general experience it is practically the
25 same water and what little water we do get out of the Yates

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

5 Q Do you have an analysis of the produced water?

6 A No, he asked me that this morning and we didn't
7 have one available.

8 Q Could you submit one at a later date?

9 A Yes.

10 Q That will be fine.

11 A Do you want it of the injected or produced water?

12 Q The water that you are going to be disposing of.

13 A All right.

14 Q If the well is taking water on a vacuum, how will
15 you be able to determine if there is a leak in the tubing,
16 would you have to pressure up on the annular space?

17 A Well, you mean after a period of time?

18 Q Yes.

19 A Well, there should be a loss of the fluid between
20 the annulus and the tubing if we get a hole in that tubing.
21 In other words, the well being on a vacuum, it will suck that
22 KCL water, the inhibited water, right on out, down to the
23 hole anyway.

24 Q Will the well be equipped in such a manner that
25 it will be easily observable?

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1 A. It will have the regular tubing head sealed off
2 on it and you will have a sealed chamber in between your
3 annulus and you go up there and find a vacuum on it, you
4 know you've got some kind of a problem.

5 Q. How will you determine if you have a vacuum on
6 there?

7 A. Just open the valve and hold your hand over it and
8 the way that Seven Rivers sucks that water in there it will
9 nearly suck your hand in that valve.

10 Q. However, the pressure on the annular space would
11 definitely show whether or not there was a leak?

12 A. Oh, yes, if you've got a vacuum on it, why the first
13 thing we would do is put a water truck on there with a pump
14 and find out what our problem was.

15 Q. Would it cause any problem if the provision of the
16 order stated that before any pressure was used on this well
17 approval would have to be made by the Secretary-Director
18 of the Commission?

19 A. It would be all right with us.

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

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

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

25 MR. STAMETS: Yes.

Any other questions of this witness? He may be

excused.

(THEREUPON, the witness was excused.)

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

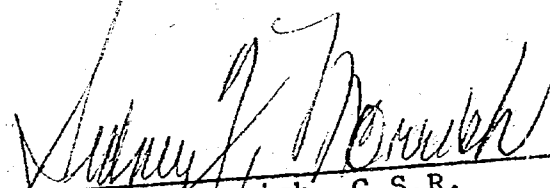
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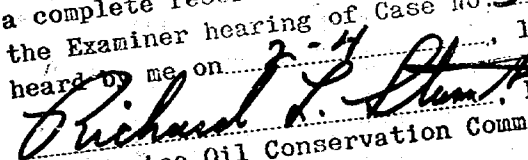
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REPORTER'S CERTIFICATE

1
2 I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
3 do hereby certify that the foregoing and attached Transcript
4 of Hearing before the New Mexico Oil Conservation Commission
5 was reported by me, and the same is a true and correct record
6 of the said proceedings to the best of my knowledge, skill and
7 ability.

8
9
10 
11 Sidney F. Morrish, C.S.R.

12
13
14
15
16 I do hereby certify that the foregoing is
17 a complete record of the proceedings in
18 the Examiner hearing of Case No. 5624.
19 heard by me on 3-7-76 1976
20  Examiner
21 New Mexico Oil Conservation Commission
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H. R. HARRIS

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Stamets

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Applicant's Exhibit No. One, Plat

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Applicant's Exhibit No. Two, Plat

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Applicant's Exhibit No. Three, Diagram

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Applicant's Exhibit No. Four, Cross Section

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Applicant's Exhibit No. Five, Log

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Applicant's Exhibit No. Seven, Log

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23 Q You are the owner of this lease and the operator
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25 A Correct.

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4 very little Yates water involved in it.

5 Q Do you have an analysis of the produced water?

6 A No, he asked me that this morning and we didn't
7 have one available.

8 Q Could you submit one at a later date?

9 A Yes.

10 Q That will be fine.

11 A Do you want it of the injected or produced water?

12 Q The water that you are going to be disposing of.

13 A All right.

14 Q If the well is taking water on a vacuum, how will
15 you be able to determine if there is a leak in the tubing,
16 would you have to pressure up on the annular space?

17 A Well, you mean after a period of time?

18 Q Yes.

19 A Well, there should be a loss of the fluid between
20 the annulus and the tubing if we get a hole in that tubing.
21 In other words, the well being on a vacuum, it will suck that
22 KCL water, the inhibited water, right on out, down to the
23 hole anyway.

24 Q Will the well be equipped in such a manner that
25 it will be easily observable?

1 A It will have the regular tubing head sealed off
2 on it and you will have a sealed chamber in between your
3 annulus and you go up there and find a vacuum on it, you
4 know you've got some kind of a problem.

5 Q How will you determine if you have a vacuum on
6 there?

7 A Just open the valve and hold your hand over it and
8 the way that Seven Rivers sucks that water in there it will
9 nearly suck your hand in that valve.

10 Q However, the pressure on the annular space would
11 definitely show whether or not there was a leak?

12 A Oh, yes, if you've got a vacuum on it, why the first
13 thing we would do is put a water truck on there with a pump
14 and find out what our problem was.

15 Q Would it cause any problem if the provision of the
16 order stated that before any pressure was used on this well
17 approval would have to be made by the Secretary-Director
18 of the Commission?

19 A It would be all right with us.

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

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

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

25 MR. STAMETS: Yes.

1 Any other questions of this witness? He may be
2 excused.

3 (THEREUPON, the witness was excused.)

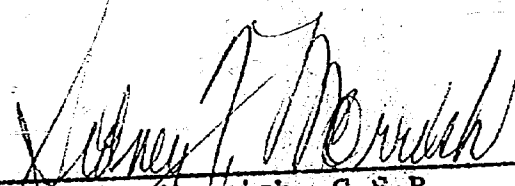
4 MR. STAMETS: Anything further in this case? We
5 will take the case under advisement.

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

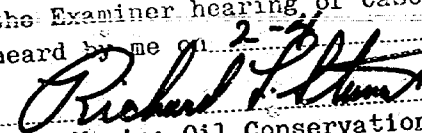
sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

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. 5624.
heard by me on 7-7-76 1976


Richard F. Plummer, Examiner
New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501



DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

Mr. Tom Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: CASE NO. 5624
ORDER NO. R-5167

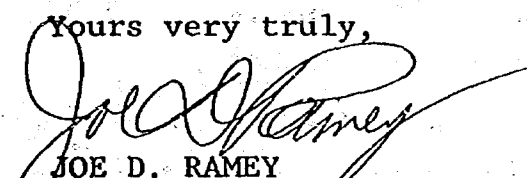
Applicant:

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

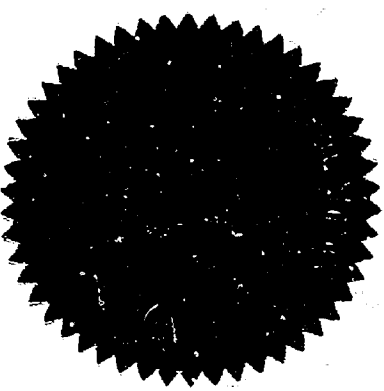
(6) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(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 herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


Phil B. Lucero
PHIL B. LUCERO, Chairman

Emery C. Arnold
EMERY C. ARNOLD, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

S E A L

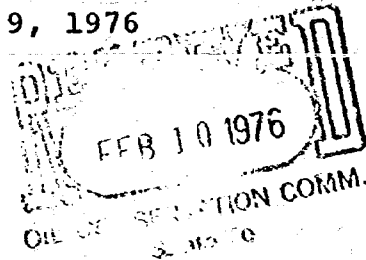
jr/

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

KELLAHIN AND FOX
ATTORNEYS AT LAW
500 DON GASPAR AVENUE
POST OFFICE BOX 1769
SANTA FE, NEW MEXICO 87501

TELEPHONE 982-4315
AREA CODE 505

February 9, 1976



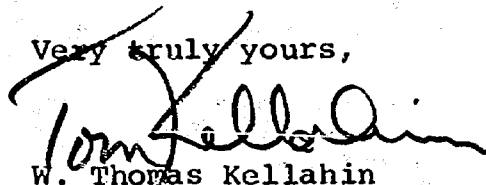
Mr. Richard Stamets
New Mexico Oil Conservation
Commission
P. O. Box 2008
Santa Fe, New Mexico 87501

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



DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

FIELD LABORATORY REPORT

WATER ANALYSIS

TO: Saxet Oil Corp.
Box 187
Midland, Texas

RECEIVED
FEB 19 1976
U.S. CONSERVATION COMMISSION
Santa Fe

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

DATE SAMPLE SUBMITTED
12-2-64

SAMPLE SOURCE
Production

	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			HYDROXIDE		

SPECIFIC GRAVITY

1.015

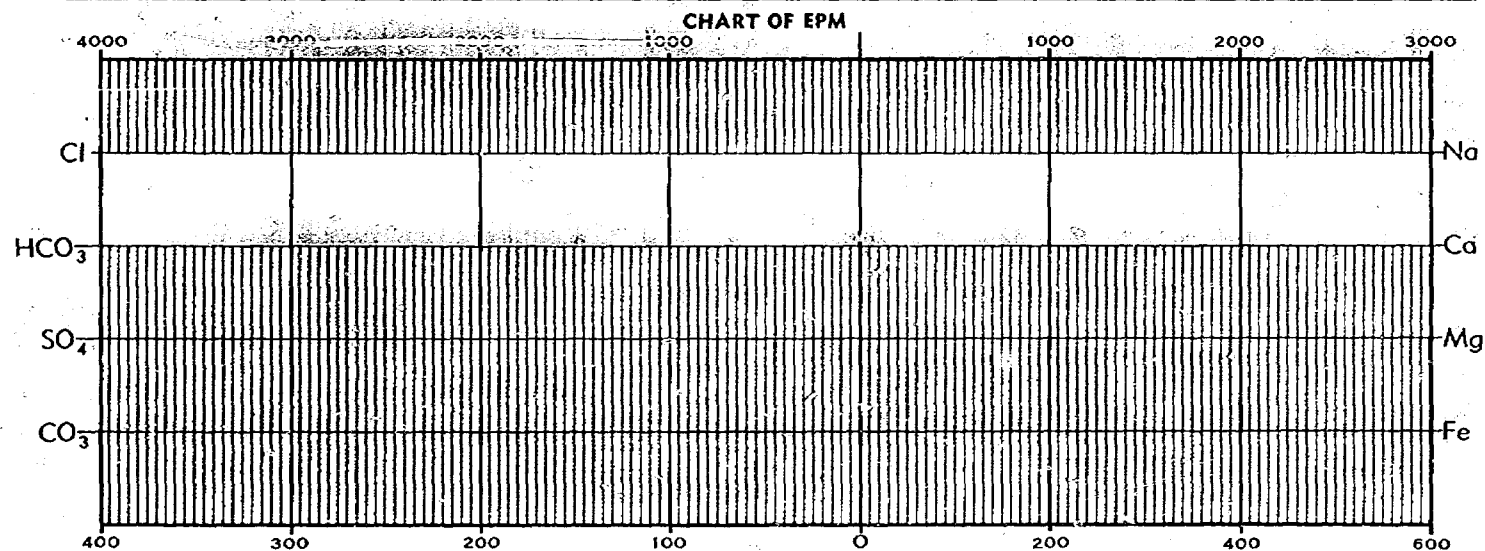
AT 72

°F

pH 6.8

CaCl₂/MgCl₂

% SALT SATURATION



REMARKS:

No Mud in Sample

Emulsion was present - Although most water had broken out.

R.L. Ball

12-2-64

CHEMIST

DATE

RECEIVED
FEB 10 1976
CONSERVATION COM

TRETOLITE DIVISION
369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

COMPANY Shell Oil Co. Harris & Walton ADDRESS Jal, New Mexico DATE: 8-9-73
SOURCE Whiten "B" #4 Sec. 4, T-24-S, R-36-E DATE SAMPLED 8-3-73 ANALYSIS NO. 7141
Analysis Mg/L *Meq/L

1. PH 7.7
 2. H₂S (Qualitative) Pos.
 3. Specific Gravity 1.005
 4. Dissolved Solids 6,664
 5. Suspended Solids
 6. Phenolphthalein Alkalinity (CaCO₃)
 7. Methyl Orange Alkalinity (CaCO₃) 1,410
 8. Bicarbonate (HCO₃) 1,720 ÷ 61 28 HCO₃
 9. Chlorides (Cl) 2,812 ÷ 35.5 79 Cl
 10. Sulfates (SO₄) None ÷ 48 --- SO₄
 11. Calcium (Ca) 380 ÷ 20 19 Ca
 12. Magnesium (Mg) 282 ÷ 12.2 23 Mg
 13. Total Hardness (CaCO₃) 2,110
 14. Total Iron (Fe) 16.5 ppm
 15. Barium (Qualitative) Pos.
 16.
- *Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

	Ca	Mg	Na	HCO ₃	SO ₄	Cl	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
19	←			→			Ca (HCO ₃) ₂	81.04		19		1,539
23		←		→			Ca SO ₄	68.07				
65			←	→			Ca Cl ₂	55.50				
					←		Mg (HCO ₃) ₂	73.17		9		659
						←	Mg SO ₄	60.19				
							Mg Cl ₂	47.62		14		666
							Na HCO ₃	84.00				
							Na ₂ SO ₄	71.03				
							Na Cl	58.46		65		3,800

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS (1) Mr. Harris (1) Mr. Walton - Midland

cc: Frost - Worsham - Parish - File

Respectfully submitted
TRETOLITE COMPANY
Ray Shaffner

FORM 0-71B (REV. 6-58)

SAMPLE NO. _____

RECEIVED
FEB 10 1976
U.S. CONSERVATION COMMISSION
Santa Fe

THE WESTERN COMPANY

Service Laboratory
Midland, Texas
PHONE MU 3-2781 DAY
PHONE MU 3-4162 NIGHT

WATER ANALYSIS

County Lea, N. M.

Date Sampled 6-29-60

Field Jalmat

Date Received 6-30-60

Operator Ed. E. Watts Harris & Walton

Submitted By Mr. H. R. Harris

Well Whitten J-4/

Worked By Jim Looney

Depth Sec. 33, T-23-S, R-36-E (SE/4)

Other Description Well head sample

Formation Brown Lime

CHEMICAL DETERMINATIONS as parts per million

Density 1.005

pH 7

Iron none

Hydrogen Sulfide none

Sodium and Potassium 3220

Bicarbonate 549

Calcium 680

Sulfate 680

Magnesium 753

Phosphate _____

Chloride 7,600

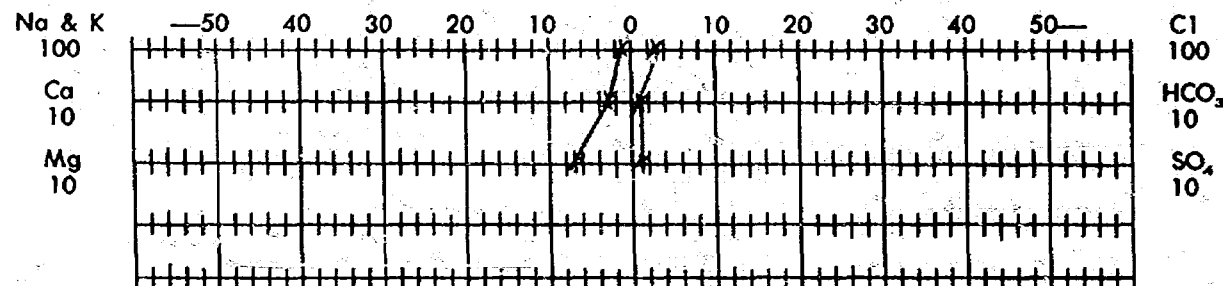
as Sodium Chloride _____

TOTAL ppm _____

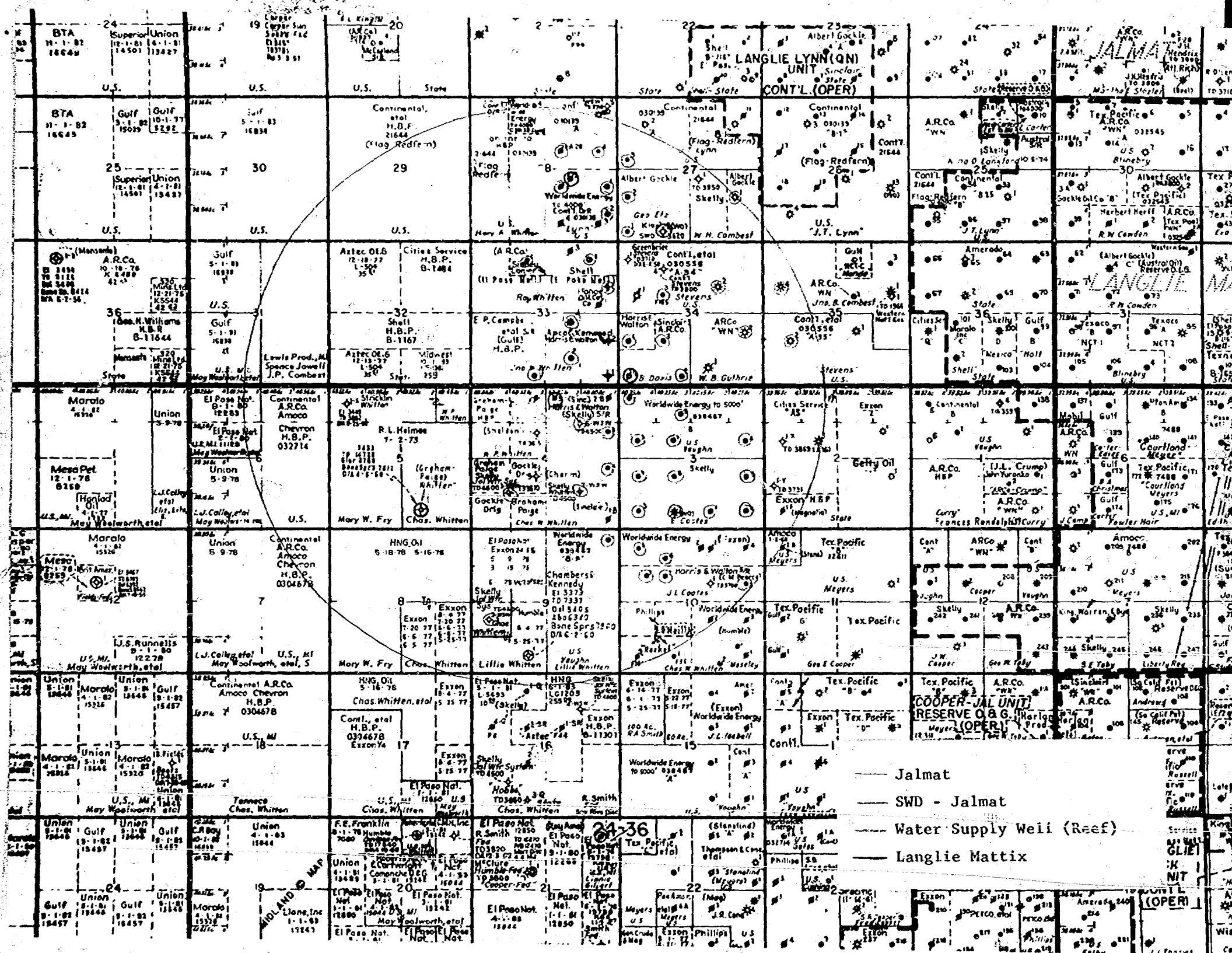
Resistivity _____ ohm-meters

Remarks:

for Stiff type plot (in meq./l.)

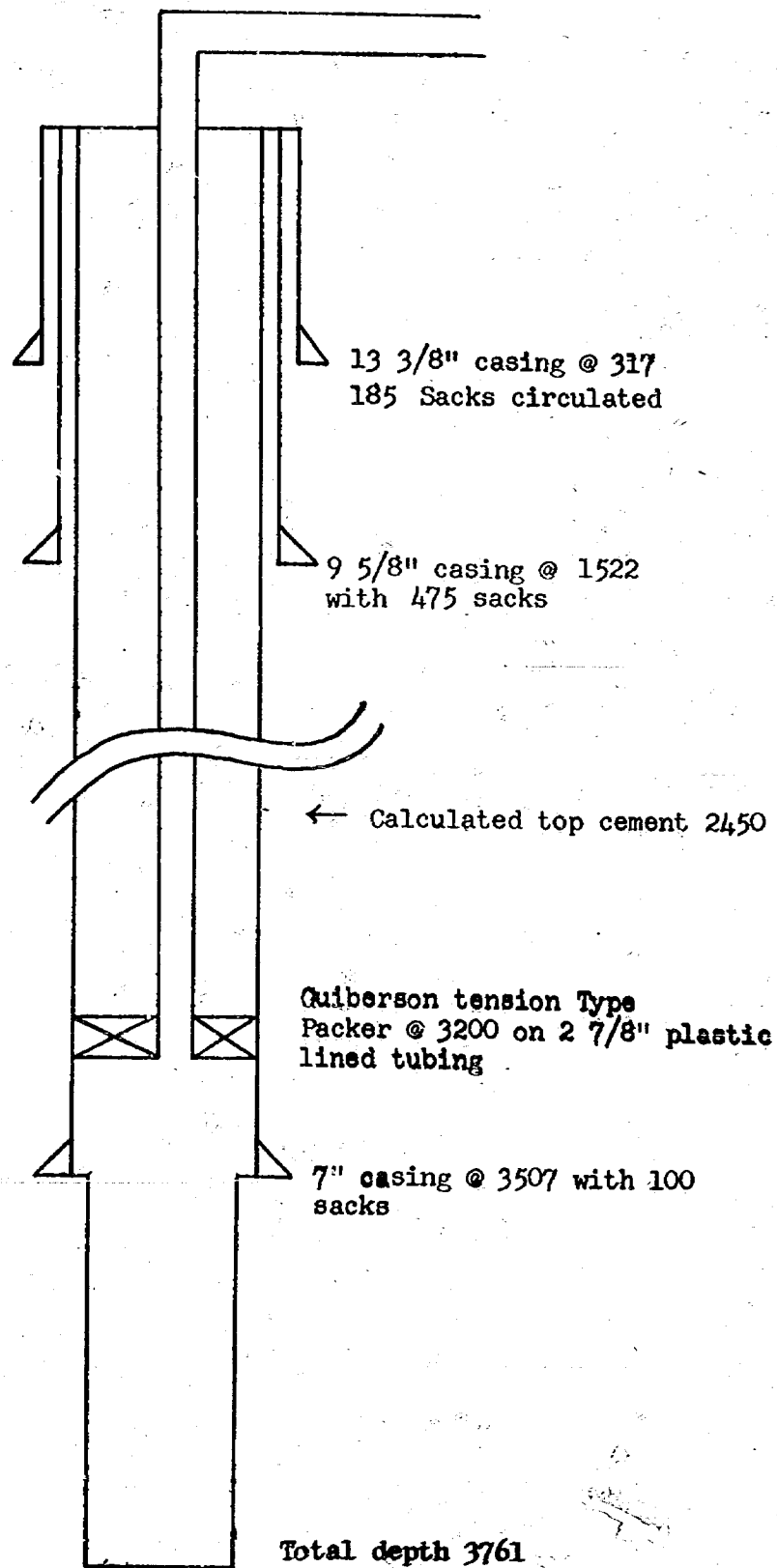


Per _____



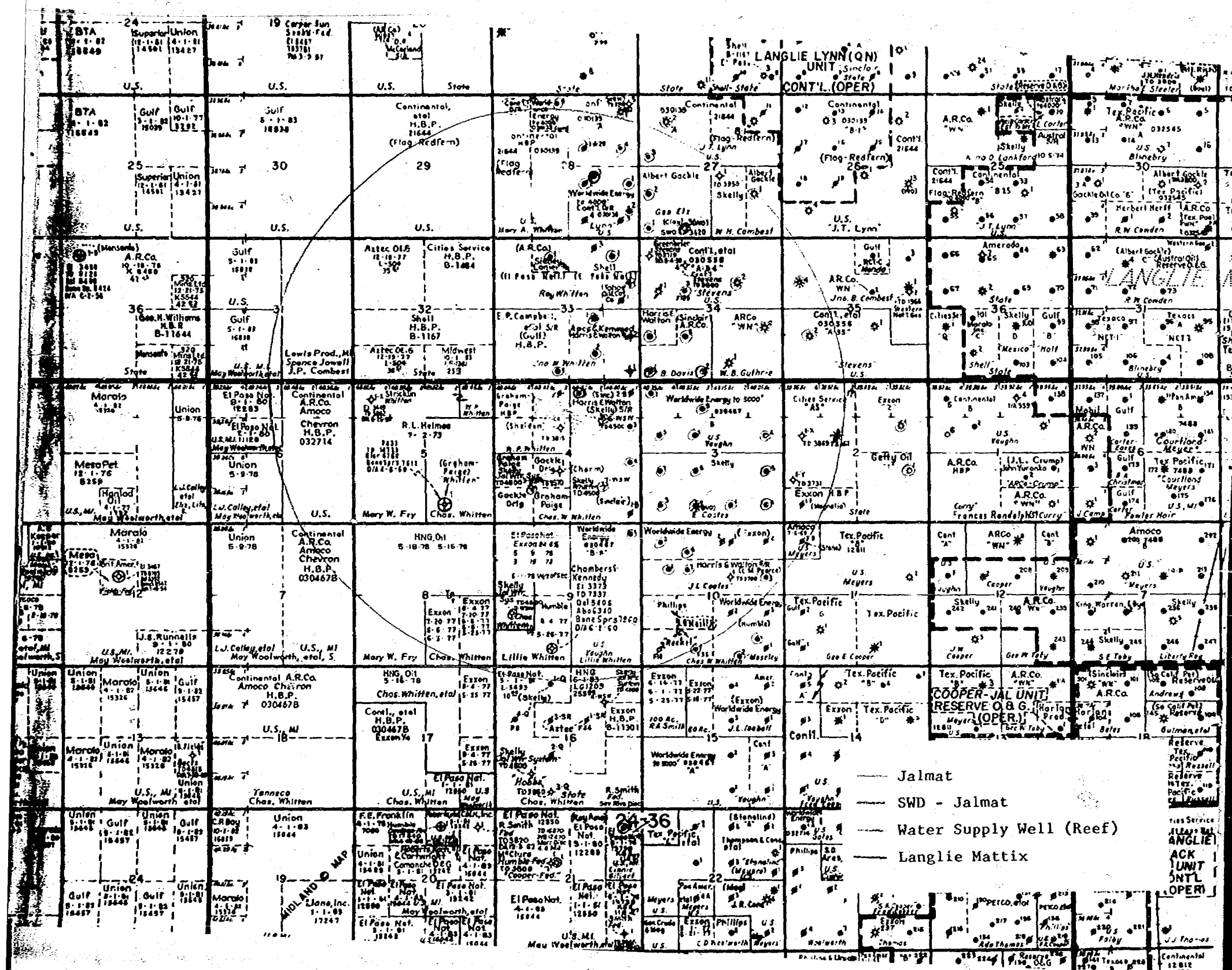
U.S.		U.S. Mary A. Whitten	Lynn U.S.	(Clay) 3(Wo) SWD 3620	W H. Combest
Aztec O.E.G 12-18-77 L-504 35	Cities Service H.B.P. B-1484	(A.R.Co.) Sidney Lanier (El Paso Natl.)	Shell Tohoo Oil & Co.	Greenbrier Stevens 103710 D/A 4-50	Cont'l, etal 030556 "A. 34" Cont'l Stevens 3 to 3000 Pigs Stevens U.S.
32 Shell H.B.P B-1167		33 E.P. Campbell, etal S/R (Gulf) H.B.P. Jno W Whitten		34 Harris & Walton (Sinclair) A.R.Co. ARCo "WN"	
Aztec O.E.G 12-18-77 L-504 35	Amoco 10-1-83 LG-1361 25	Jno W Whitten		B Davis	W. B. Guthrie
Stricklin Whitten EI 3449 TD 3802 D/A 4-5-80	R.L. Holmes 7-2-73	Graham- Paige HBP (Sheldon) TD 3815 W.P. Whitten	Harris & Walton (Skelly) S/R Harris & Walton TD 4500 TD 4000	Worldwide Energy to 5000'	Worldwide Energy to 5000'
3433 TD 14713 Glor 6760 Bone Sprs 7612 D/A 4-6-80	(Graham- Paige) Whitten	Graham- Paige Jal Wyr. Sys. TD 4500 Gackle Orig	Gackle Orig Graham- Paige Chas. W. Whitten	U.S. Vaughn	Skelly
Mary W. Fry	Chas. Whitten	Chas. W. Whitten		Skelly Whitten TD 4500 (Sinclair)	Skelly
HNG Oil 5-18-78 6-16-78		El Paso Nat Exxon 24 6% 5-9-78 3-15-78 6-78 w/20 sec.	Worldwide Energy Yarbob Res. 1/4 to 5000' 030467 "B-9" Chambers & Kennedy EI 3373 TD 7337 Del 5405 Ab 6343 Bone Sprs 7260 D/A 6-2-80	Worldwide Energy Yarbob Res. 1/4	(Exxon)
8 Exxon 18-4-77 7-20-77 6-6-77 6-5-77	Exxon 18-4-77 7-20-77 6-6-77 6-5-77	Skelly Jal Wyr. Sys TD 4500 Chas. Whitten	Humble 8-4-77 5-25-77	Harris & Walton S/R (C. M. Pearce) TD 3100	J.L. Coates
Mary W. Fry	Chas. Whitten	Lillie Whitten	U.S. Vaughn Lillie Whitten	Phillips O'Neill "Rocket"	Worldwide Energy Yarbob Res. 1/4 (Humble)
HNG Oil 5-16-78	Exxon 18-4-77	El Paso Nat. 5-1-81 1-24-83	HNG 6-1-83 LG1209	Exxon 6-14-77	(Exxon) Am

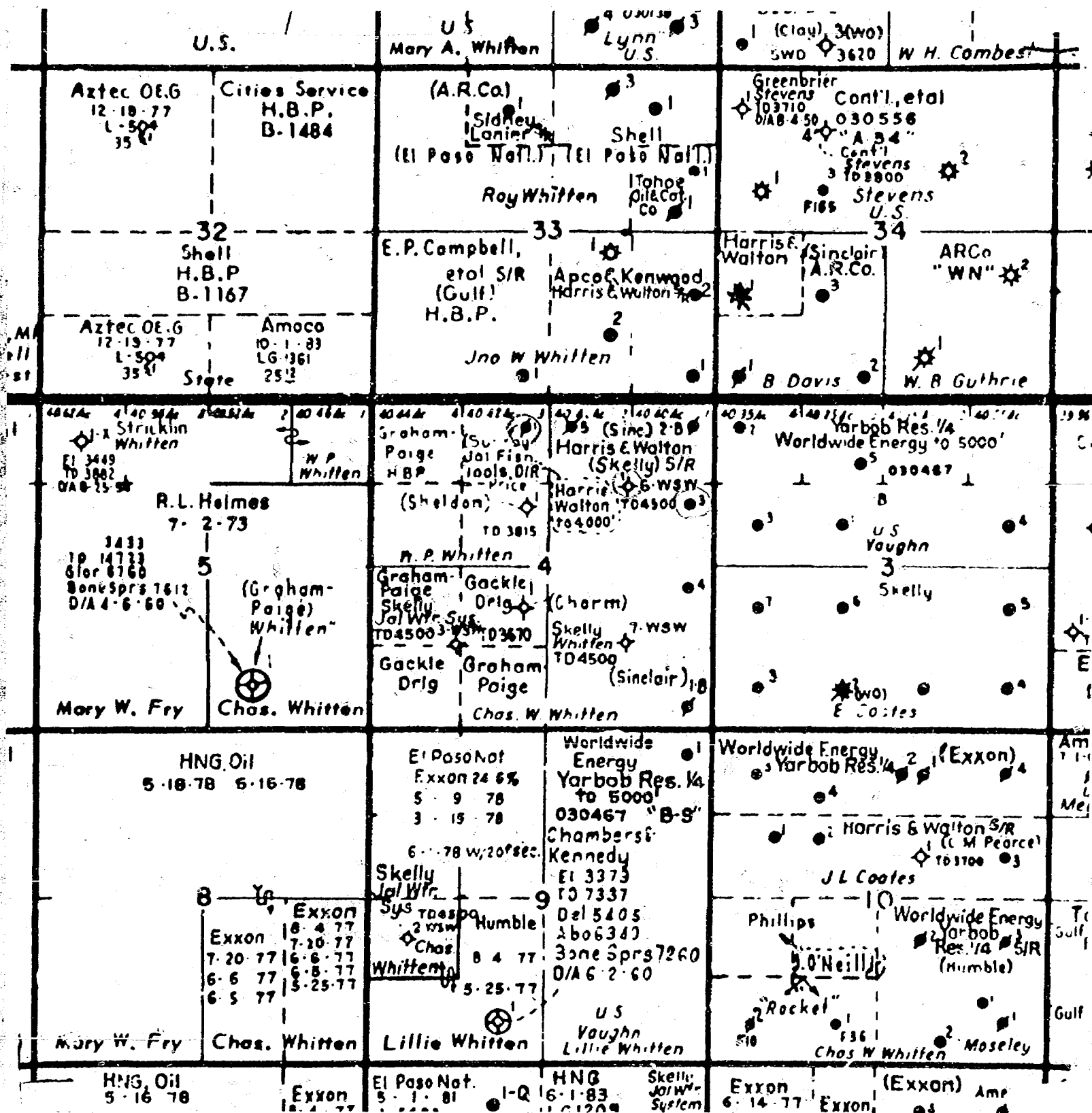
DIAGRAMMATIC SKETCH
of Proposed Installation of
Water Injection Equipment



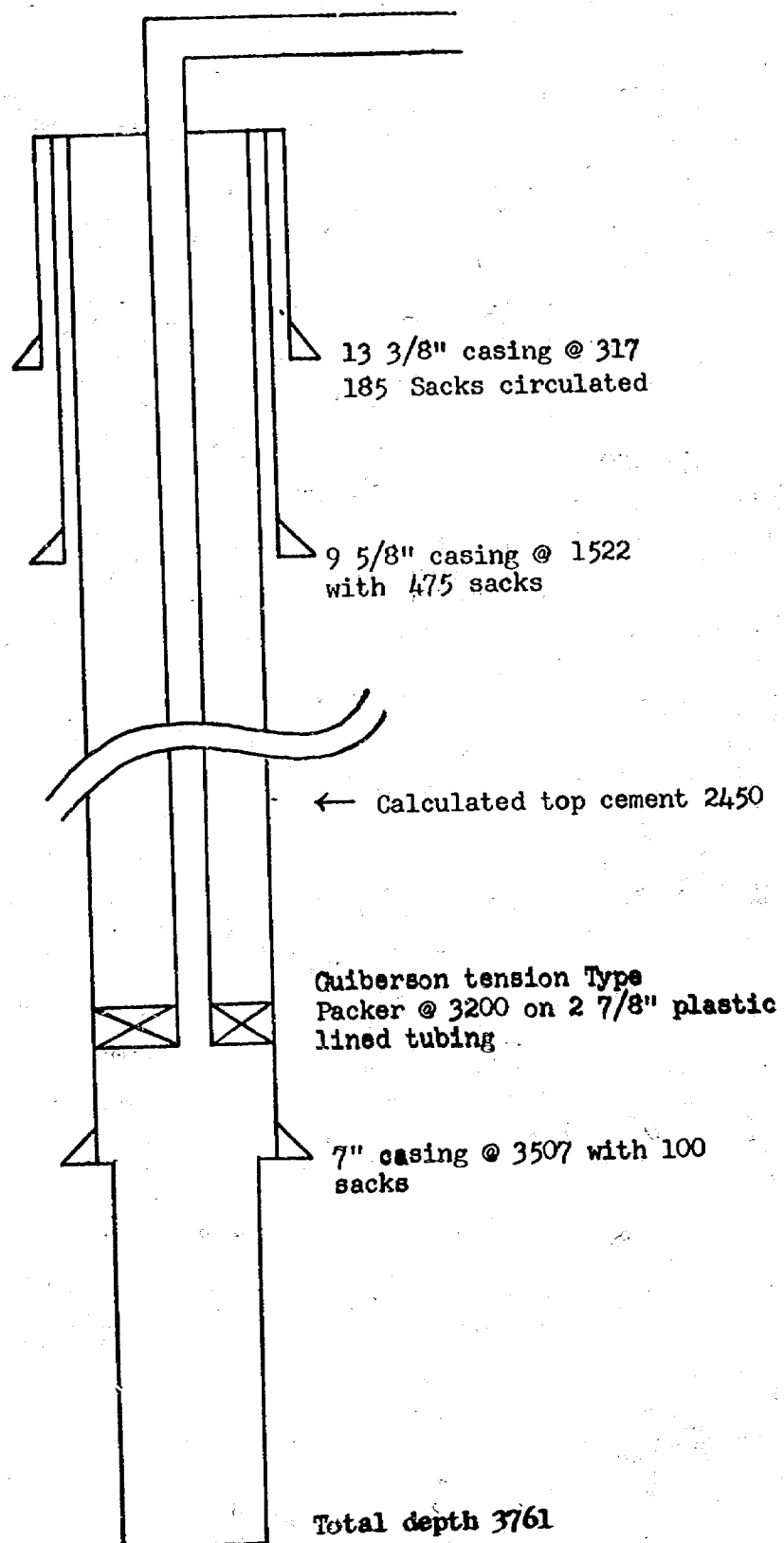
Proposed for: Harris & Walton
H. Whitten No. 1
330' FNL & 2310' FWL
Sec. 4, T24S, R36E
Jalmat Pool
Lea County, New Mexico

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
HARRIS	EXHIBIT NO. 3
CASE NO.	5624
Submitted by	HARRIS
Hearing Date	4 Feb 76



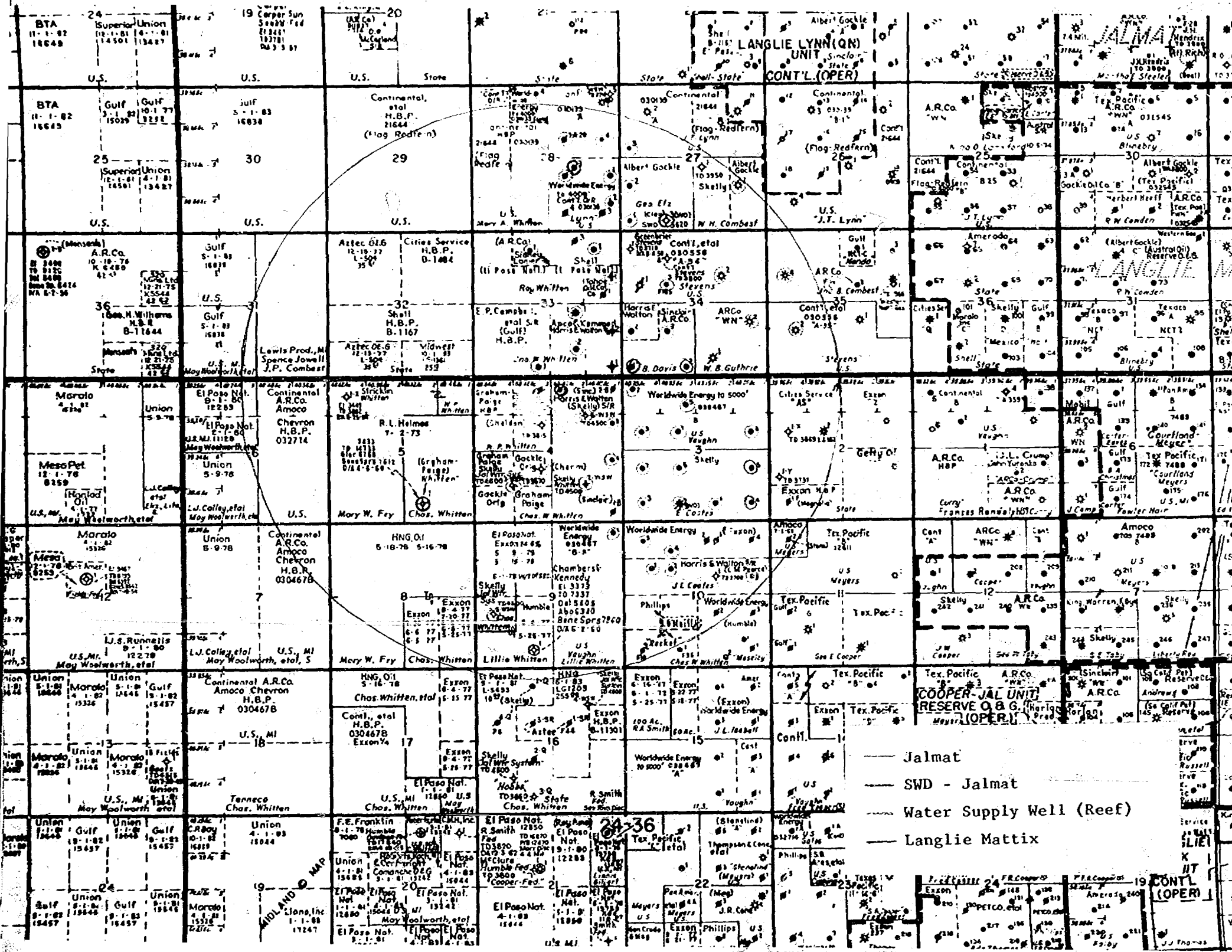


DIAGRAMMATIC SKETCH
of Proposed Installation of
Water Injection Equipment



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

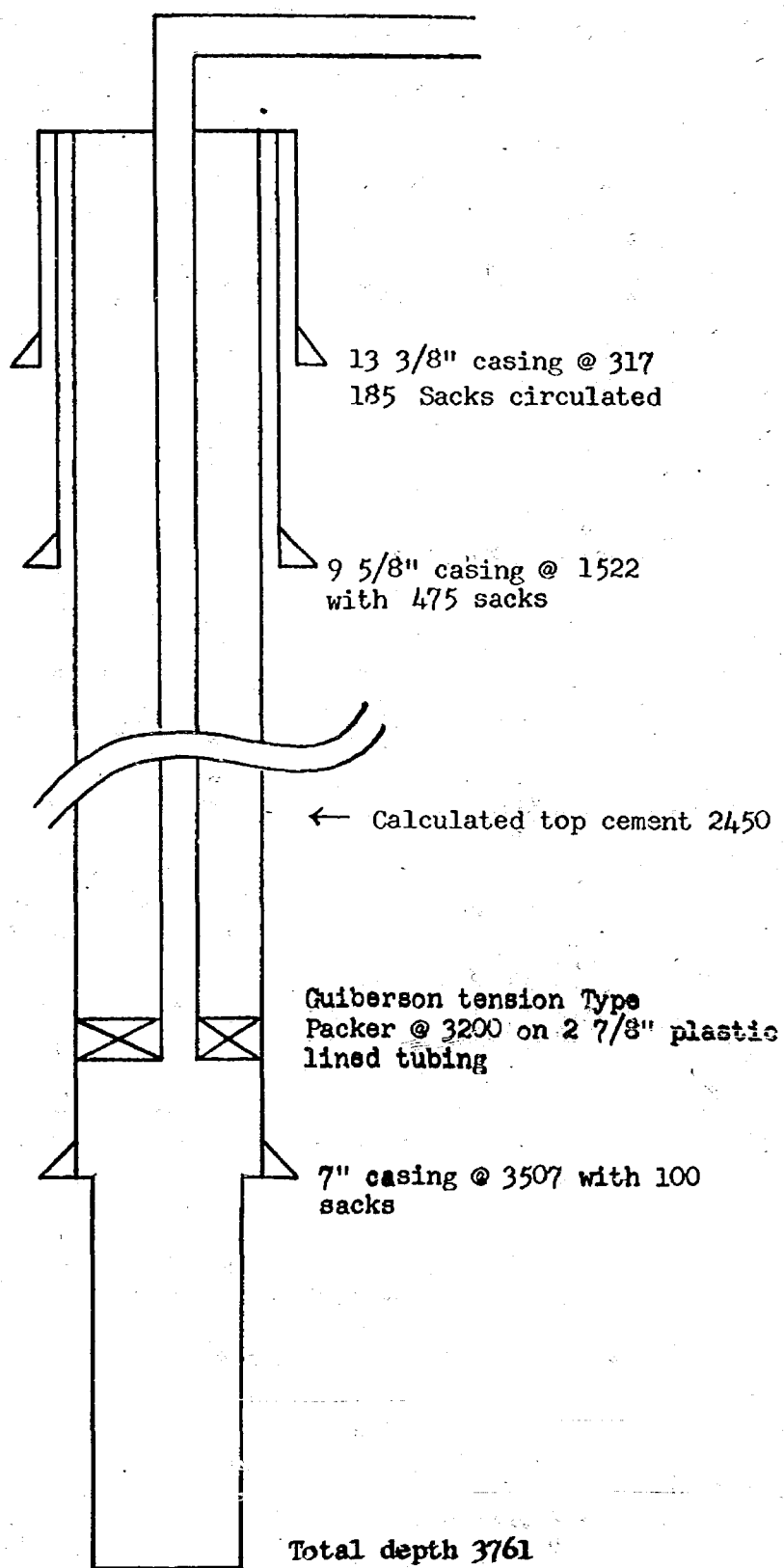
Case 5624
Exhibit 3



— Jalmat
— SWD - Jalmat
— Water Supply Well (Reef)
— Langlie Mattix

COOPER-JAL UNIT
RESERVE O & G
JALMAT UNIT
LANGLIE LYNN (ON) UNIT
CONT'L (OPER)

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

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 - SANTA FE, NEW MEXICO

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

CASE 5620: Application of Champlin Petroleum Company for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood 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.

CASE 5621: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. 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.

CASE 5623: 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 No. 4, located in Unit I of Section 18, Township 22 South, Range 28 East, Indian Draw-Delaware Pool, Eddy County, New Mexico.

CASE 5624: Application of Harris & 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, located in Unit C of Section 4, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

CASE 5625: Application of Walter W. Krug dba Wallen Production Co. for an exception to Order R-111-A, Lea 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.

CASE 5626: 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.

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Carlsbad-Strawn Gas 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) CREATE 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:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 35: All
Section 36: W/2

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 Carlsbad-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 EAST, 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 East, 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 Nonombre-Pennsylvanian Pool. Said pool would consolidate the vertical limits and acreage of the abolished Nonombre Lower-Pennsylvanian, Nonombre Middle-Pennsylvanian and the Nonombre 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 North Samral-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, NMPM

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 Nonombre 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 NW/4 SW/4

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

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM

Section 12: S/2

Section 13: E/2

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM

Section 2: Lots 11, 12, 13, 14 & SW/4

Section 15, 16, 21, 22, & 28: All

Section 33: N/2

- (m) EXTEND the Burton 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
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 Elmont 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, NMPM
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 EAST, 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 EAST, NMPM
Sections 31 & 32: All

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

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

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

Oil Reports and Gas Services, Inc.

P. O. BOX 763
HOBBS, NEW MEXICO 88240

January 14, 1976

Case 5624

JAN 15 1976

CONSERVATION COM.

TELEPHONE NUMBERS
393-2727 - 393-2017

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

Gentlemen:

In accordance with Rule 1203 application is hereby made on behalf of 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

Skelly Oil Company
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

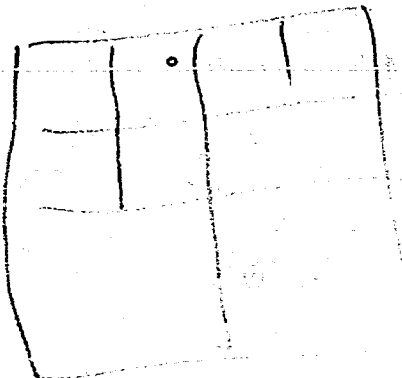
Yours very truly,

OIL REPORTS AND GAS SERVICES, INC.

Donna Holler
(Mrs.) Donna Holler

DH/lr

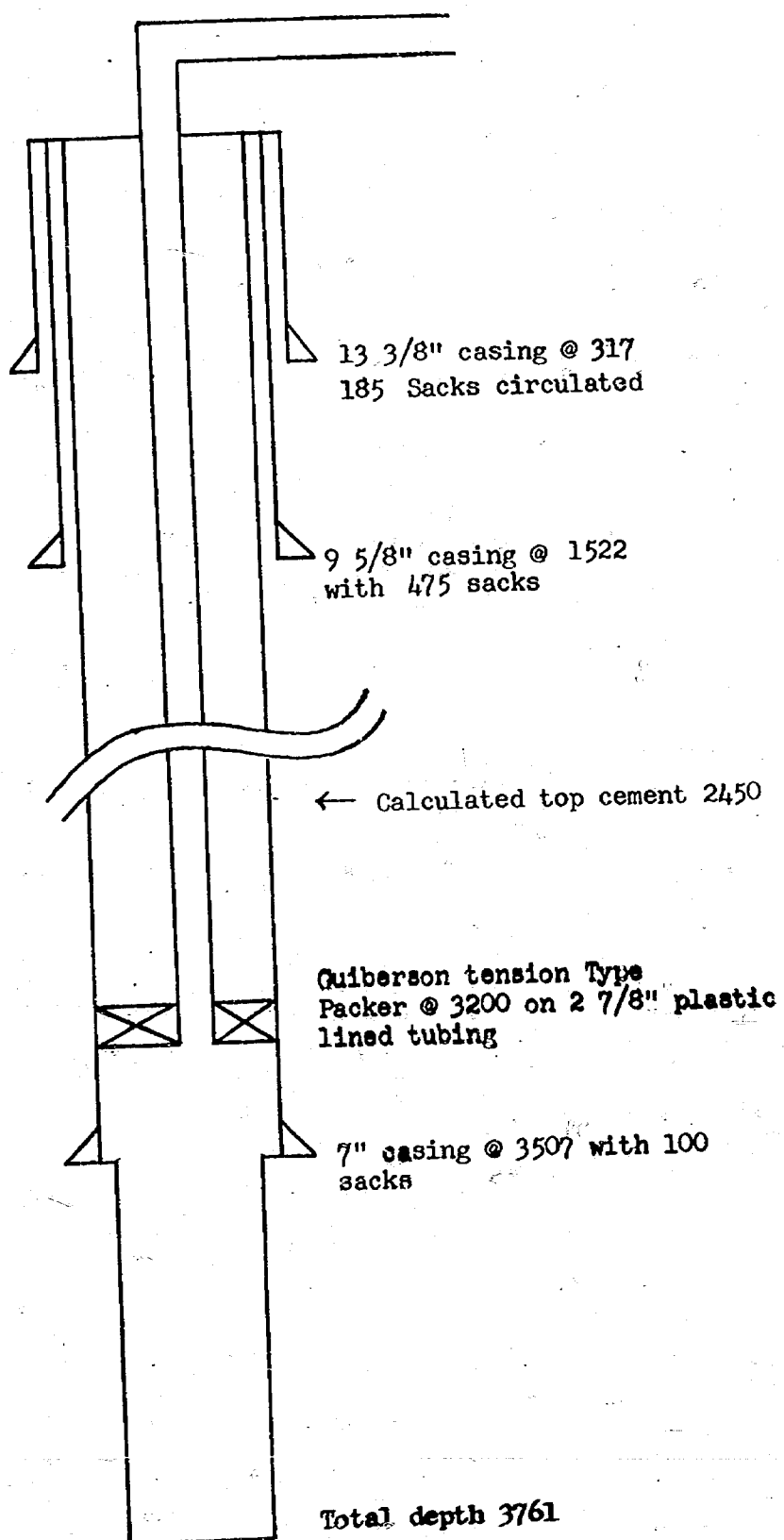
cc: Harris & Walton
P. O. Box 187
Midland, Texas 79701



DOCKET MAILED
Date 1/26/76

Case 5624

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

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
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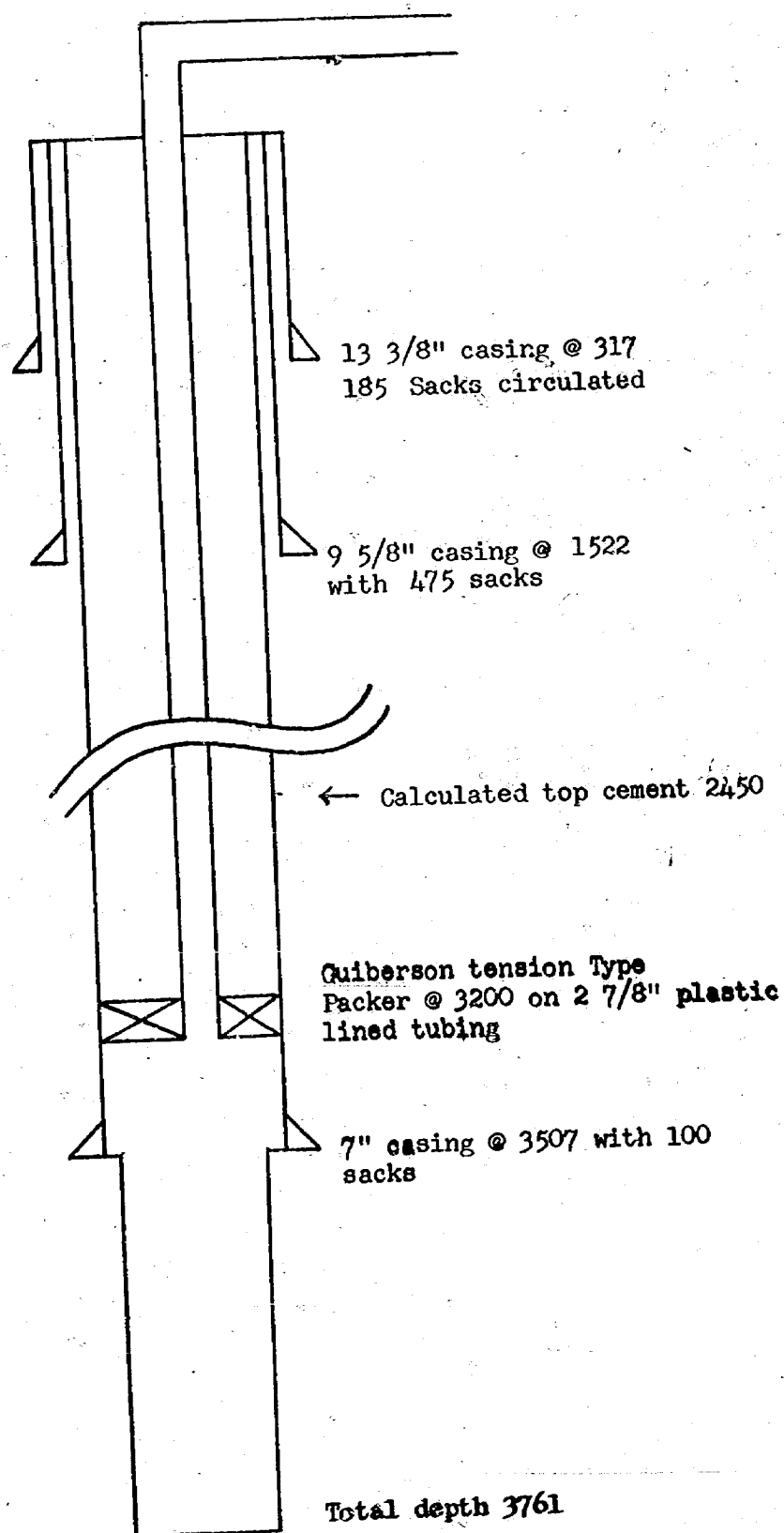

(Mrs.) Donna Holler

DH/ls

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

Case 5624

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

Case 5624

Oil Reports and Gas Services, Inc.

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January 14, 1976

State of New Mexico
Oil Conservation Commission
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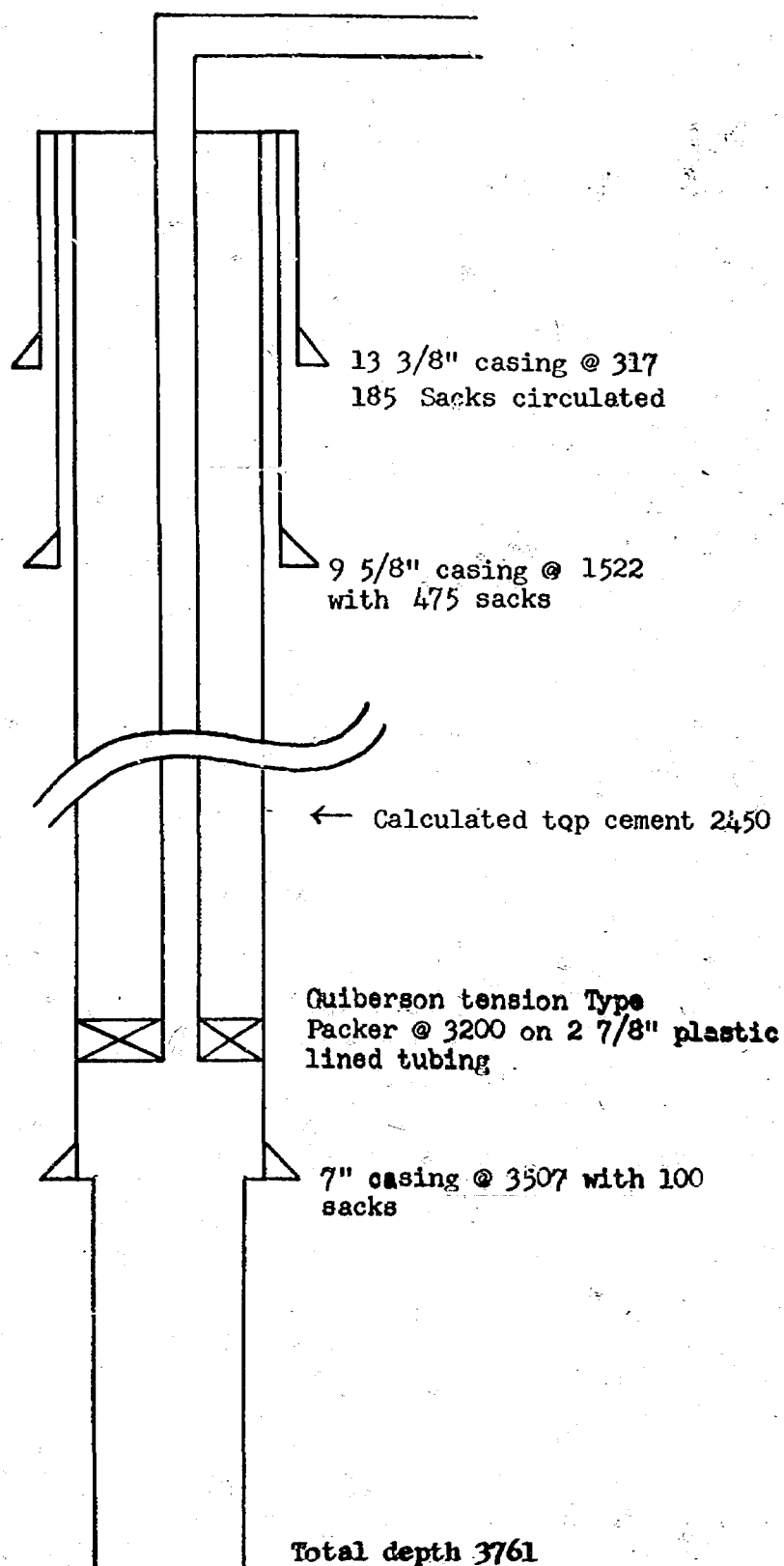

(Mrs.) Donna Holler

DH/ls

cc: Harris & Walton
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Midland, Texas 79701

Case
5624

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

in
DRAFT

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:

de
CASE NO. 5624

app *jar*
APPLICATION OF HARRIS & WALTON FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO. Order No. R- 5167

JSW
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 public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

are (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

CASE NO. _____

annulus in order to determine leakage in the casing, tubing, or packer. *That if injection into said well should be under pressure,*

OK → (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 ~~1,800 psi~~. *1,800 psi.*

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

(6) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(7) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

~~are~~ (1) That the applicant, Harris & Walton, ~~is~~ ^{hereby} authorized to utilize ~~the~~ ^{their} 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 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.

-3-
CASE NO.

(2) That if injection into said well shall
be under pressure,

(3) 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.

(6) That the operator shall immediately notify the super-
visor of the Commission's Hobbs district office of the
failure of the tubing, casing, or packer, in said well or the
leakage of water from or around said well and shall take such
steps as may be timely and necessary to correct such failure
or leakage.

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

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

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

(3) That if injection into said well is
under a vacuum, ~~the supervisor~~ 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.