CASE 6632: MESA PETROLEUM COMPANY FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO

CASE NO.

6632

APPlication,
Transcripts,
Small Exhibits,

ETC.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

September 21, 1979

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 87501 (505) 827-2434

Mesa Petroleum Company Dear Sir: Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case. The provided Herewith are two copies of the above-referenced in the subject case. The provided Herewith are two copies of the above-referenced in the subject case. The provided Herewith are two copies of the above-referenced in the subject case. The provided Herewith are two copies of the above-referenced in the subject case. The provided Herewith are two copies of the above-referenced in the subject case. The provided Herewith are two copies of the above-referenced in the subject case.		a de la companya de l			•		
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	Hobbs OCD X						
	Other						

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

CASE NO. 6632 Order No. R-6114

APPLICATION OF MESA PETROLEUM COMPANY FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 22, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 19th day of September, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Mesa Petroleum Company, seeks authority to complete its Frank State Well No. 1, located in Unit I of Section 7, Township 19 South, Range 23 East, NMPM, Runyan Ranch Field, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Morrow formation through 2 3/8-inch tubing and gas from the Abo formation through the casing-tubing annulus, separation of the zones to be achieved by means of a packer set at 7548 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

-2-Case No. 6632 Order No. R-6114

IT IS THEREFORE ORDERED:

(1) That the applicant, Mesa Petroleum Company, is hereby authorized to complete its Frank State Well No. 1, located in Unit I of Section 7, Township 19 South, Range 23 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Abo and Morrow formations, Runyan Ranch Field, through the casing-tubing annulus and through tubing.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take Packer Leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for the Morrow zone.

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

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

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

BEAL

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT Oil Conservation Division State Land Office Building Santa Fe, New Mexico 22 August 1979

EXAMINER HEARING

IN THE MATTER OF:

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Application of Mesa Petroleum Com-) pany for a dual completion, Eddy) County, New Mexico.

CASE 6632

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503

For the Applicant:

D. Dale Gillette, Esq. Mesa Petroleum Company P. O. Box 2009 Amarillo, Texas 79189

SALLY WALTON BOYD
CERTFIED SHORTHAND REPORTER
3020 Plaza Blanca (605) 471-4462
Santa Fe, New Mexico 37501

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MIKE HOUSTON

Direct Examination by Mr. Gillette

Cross Examination by Mr. Nutter

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Applicant	Exhibit	Two,	Diagram			6
Applicant	Exhibit	Three	e. Log	5.5		_

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MR. NUTTER: We'll call next Case Number

MR. PADILLA: Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

MR. GILLETTE: Mr. Examiner, my name is

Dale Gillette. I am an attorney for Mesa Petroleum Company.

Mr. Paul Eaton normally accompanies us before this Commission.

Mr. Eaton was unavailable today and has delivered to the

Commission, or asked me to deliver to the Commission, a

letter of introduction, signed by Mr. Conrad Coffield of his

law firm.

I would present this to you at this time and the Examiner's permission to present the case on behalf of Mesa Petroleum Company this morning.

MR. NUTTER: This is fine. You may proceed, Mr. Gillette.

MR. GILLETTE: Thank you, sir.

MR. NUTTER: This is entry of appearance in

both cases?

MR. GILLETTE: Yes, sir, that's correct.

Mr. Examiner, we have one witness this morning to testify on both cases, 6632 and 6633. He will present three exhibits. I would like him to be sworn at this point.

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(Witness sworn.)

MIKE HOUSTON

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

DIRECT EXAMINATION

BY MR. GILLETTE:

Would you state your name, residence, and by whom you are employed, please, sir?

My name is Mike Houston. I live in Midland Texas, and I'm employed by Mesa Petroleum.

Mr. Houston, what is your position with Mesa Petroleum Company?

I'm the Operations Manager in that Midland office.

All right. Mr. Houston, have you testified before the New Mexico Oil Conservation Division before and had your qualifications accepted and were accepted as an expert in petroleum engineering before this Division?

Yes,

MR. GILLETTE: Mr. Examiner, we would tender the witness as qualified.

MR. NUTTER: Mr. Houston, as Operations

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blance (605) 411-2462
Santa Fe, New Mexico 87501

Manager, however, you are a petroleum engineer, is that correct?

A. Yes, that's correct.

MR. NUTTER: He's qualified.

MR. GILLETTE: Thank you, sir.

Ω (Mr. Gillette continuing.) Mr. Houston, what is the nature of the present application of Mesa Petroleum Company this morning?

A. We are applying or seeking approval for a dual completion of the Frank State Well No. 1, located in Section 7 of Township 19 South, Range 22 East, Eddy County.

Q. All right, sir, and since this application and other actions, have you notified the offset operators to this tract?

A. That is correct. We filed Form C-107 with the offset operators and also with the District Office in Artesia, and everything looked okay except there was not an applicable well that we could refer to to have this handled administratively, so therefore, the hearing resulted.

Q Very good. Mr. Houston, directing your attention to what is marked as Mesa Petroleum's Exhibit Number One, would you explain this to the Examiner and tell him what this purports to show, please?

A. Yes. This is a general plat in the South

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Hope area, approximately eight miles south of Hope, New Mexico, covering primarily a portion of Township 19 South, Range 23 East, Eddy County.

The red arrow points to the Frank State No. 1, the well in question, which is operated by Mesa Petroleum, and commercial quantities of gas have been encountered in both the Abo and Morrow zones. We feel that dual completion would maximize gas recovery in the shortest possible

All right, sir, before we move off this time. exhibit, is there anything in addition that you would like to add about the exhibit and what -- what it purports to show with respect to the location of this well?

When we applied for this location, we applied for the well to be drilled at a point 2130 from the south line and 660 feet from the east line, which was in agreement with 320-acre spacing going to the Morrow, but upon the dual completion, the Abo zone being of an earlier -or later age than the Wolfcamp formation, just yesterday we discovered that this is -- would be an unorthdox location for the Abo zone.

All right, sir. Directing your attention to Exhibit Number Two, would you explain what this exhibit purports to show?

Exhibit Two is a wellbore schematic of the

Frank State No. 1, located in Section 7 of 19 South, 23 East, and 5-1/2 inch casing is set to a total depth of 7700 feet with top of cement at 3390.

The Morrow perforations at 7592 to 7611 are separated from the Abo perforations at 4395 to 4454 by a production packer set at 7548.

If approval is granted to multiple complete hydrocarbons from the Morrow zone would be produced up the 2-3/8ths inch tubing and hydrocarbons from the Abo zone would be produced up the 5-1/2, 2-3/8ths tubing annulus.

Q All right, sir. Now, you -- in your opinion would the setting of the production packer at 7548 prevent the commingling or communication between the producing zones?

A. That's correct, it would, and we would -naturally will run packer leakage test upon commencement of
production in the well.

Q All right, sir.

Finally, directing your attention to what you have marked as Exhibit Number Three, would you explain to the Examiner what this document is?

A. It's merely a Xeroxed portion of the -small portion of the radioactive log of the named well. It
indicates the two zones that we talked about, Abo and Morrow,
that are productive in this particular well.

	Q.	All right.	Now,	with re	espect	to this	parti
cular	exhibit,	Mr. Houston, d	lid you	ı prepar	re this	exhibi	Ŀ ?

A. It's -- yes, I did. It's, naturally, a log from Schlumberger, you see, and we just Xeroxed a portion of it for the hearing.

- Q. All right, now, the Schlumberger, the actual Schlumberger log, you did not prepare that, did you?
 - A. Oh, no, no, I see what you're asking.
- Q But you -- but you have reviewed the Schlumberger log and also you have reviewed these Xeroxed copies, and they to the best of your knowledge are true and correct information as reflected on the Schlumberger log, is that correct?
- A. That's right. The perforations that are so marked, yes, were marked under my supervision.
 - Q All right.

MR. GILLETTE: Mr. Examiner, we'd ask that Exhibits One, Two, and Three be admitted into evidence in this proceeding.

MR. NUTTER: Mesa Exhibits One through Three will be admitted.

Mr. Houston, if, in fact, this application is granted for the dual completion, in your opinion would the multi-completion prevent waste and protect correlative rights and avoid the drilling of unnecessary additional wells?

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around 2000.

in these two zones, Mr. Houston?

1	A.	Yes, I feel like that it would.
2	Q.	And if completed in this manner, will
3	hydrocarbons be sa	fely and effectively produced in each zone?
4	A.	Yes, I feel like that they will.
5		MR. GILLETTE: Okay. I'll pass the witness
6	Mr. Examiner.	
7		
8		CROSS EXAMINATION
9	BY MR. NUTTER:	
10	Q.	Mr. Houston, have you obtained potentials
11	on these zones as y	γet?
12	A.	Yes, sir. Perhaps I skipped over that.
13		On Exhibit Number Two you might see right
14	under the perforat	ions marked in each category there, are
15	CAOF calculations.	
16	1	For the Abo perfs we potentialed it for
17	2557 Mcf per day, a	and the Morrow potentialed for 1609.
18	Q. V	What kind of pressures have you got in
19	those two zones?	

I don't have that number on the top of

How about the gas-liquid or gas-oil ratio

my head. Surface shut-in pressure on the Abo perforations

is around 1300, I believe, and the Morrow shuts in at

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A. On potential test both of these zones tested dry. If you'll refer back to Exhibit One, we have a well completed in the Morrow formation only in Section 8, the Gardner State No. 1, and the gas-oil ratio on it has averaged out around 291,000 cubic feet per barrel. That will give you some indication of the Morrow gas-oil ratio.

We do have another completion down in Section 17, the Runyan Federal Com No. 1, and to date that thing has made just a half a barrel of condensate. It's very, very low, almost dry there, also.

Q. What I was particularly concerned with is the gas-liquid or gas-oil ratio in the Abo because it's coming up the annulus.

A. Tend to log off and possibly die. Again, on this Runyan, it's practically dry. I don't feel like that it's going to be of any great consequence.

On which one?

A. The Runyan Federal Com No. 1 in Section 17.

Q. Is it an Abo well?

A. It is completed from the Abo, yes, sir.

You see the total depth there of only 4725.

Q. Oh, I see. Okay.

A. Yes.

g so these wells on Exhibit Number One; the

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two producing wells, one's a Morrow single and the other is an Abo single?

The one in Section 3 is That's correct. a Morrow single and the one in Section 17 is an Abo single, yes.

MR. NUTTER: Are there any other questions of Mr. Houston? He may be excused.

Do you have anything further in this case,

Mr. Gillette?

MR. GILLETTE: No, sir, we do not.

MR. NUTTER: Does anyone have anything they

wish to offer in Case Number 6632?

We'll take the case under advisement.

(Hearing concluded.)

.- **1**

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY

CERTIFY that the foregoing and attached Transcript of

Hearing before the OIl Conservation Division was reported

by me; that the said transcript is a full, true, and correct

record of the hearing, prepared by me to the best of my

ability from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 19.77 heard by me on Particle Proceedings in the Examiner hearing of Case No. 19.77 heard by me on Examiner heard by me on the contract of the contract of

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
SUSPENSE BENIEF (605) 411-446

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
Oil Conservation Division
State Land Office Building
Santa Fe, New Mexico
22 August 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of Mesa Petroleum Com-)
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County, New Mexico.

CASE 6632

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

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Ernest L. Padilla, Esq. Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503

For the Applicant:

D. Dale Gillette, Esq. Mesa Petroleum Company P. O. Box 2009 Amarillo, Texas 79189

LY WALTON BOY TED SHORTHAND REPORT PAR BLUCK (605) 472-3-4

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MIKE HOUSTON

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Cross Examination by Mr. Nutter

EXHIBITS

Applicant Exhibit One, Plat 5
Applicant Exhibit Two, Diagram 6
Applicant Exhibit Three, Log 7

SALLY WALTON BOYC CERTIFIED SHORTHAND REPORTE 3030 Plaza Blanca (505) ATI-510 Santa Fe, New Mexico 57501 MR. NUTTER: We'll call next Case Number

MR. PADILLA: Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

MR. GILLETTE: Mr. Examiner, my name is Dale Gillette. I am an attorney for Mesa Petroleum Company. Mr. Paul Eaton normally accompanies us before this Commission. Mr. Eaton was unavailable today and has delivered to the Commission, or asked me to deliver to the Commission, a letter of introduction, signed by Mr. Conrad Coffield of his law firm.

I would present this to you at this time and the Examiner's permission to present the case on behalf of Mesa Petroleum Company this morning.

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I'm the Operations Manager in that Midland office.

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Yes.

MR. GILLETTE: Mr. Examiner, we would tender the witness as qualified.

MR. NUTTER: Mr. Houston, as Operations

Manager, however, you are a petroleum engineer, is that correct?

A. Yes, that's correct.

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	Page
Q	All right. Now, with respect to this parti-
	Mr. Houston, did you prepare this exhibit? It's yes, I did. It's, naturally, a log
from Schlumber	ger, you see, and we just Xeroxed a portion of
	All right, now, the Schlumberger,
actual Schlum	Oh, no, no, I see what you're asking. But you but you have reviewed the
Q Schlumberger	log and also you have reviewed these Xeroxed they to the best of your knowledge are true and the Schlumberger log, is
copies, and correct info	they to the best of journal to the schlumberger log, is rmation as reflected on the schlumberger log, is

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6	Mr. Examiner.
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9	BY MR. NUTTER: O. Mr. Houston, have you obtained potentials
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11	on these zones as yet?
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16	and the Morrow potentialed for 1609.
17	what kind of pressures have
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19	those two zones? I don't have that number on the top of
20	A. I don't have I don't have I my head. Surface shut-in pressure on the Abo perforations
2	1 my head. Surface shut-in pressure
2	my head. Sullado is around 1300, I believe, and the Morrow shuts in at
2	around 2000. Now about the gas-liquid or gas-oil ratio
	24 Row about the gas rigure

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A Tend to log off and possibly die. Again, on this Runyan, it's practically dry. I don't feel like that it's going to be of any great consequence.

o On which one?

A. The Runyan Federal Com No. 1 in Section 17.

It's --

Q Is it an Abo well?

A. It is completed from the Abo, yes, sir. You see the total depth there of only 4725.

Oh, I sec. Okay.

n Yes.

Q. So these wells on Exhibit Number One, the

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yes.

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That's correct. a Morrow single and the one in Section 17 is an Abo single,

MR. NUTTER: Are there any other questions

He may be excused.

Do you have anything further in this case,

Mr. Gillette?

of Mr. Houston?

an Abo single?

MR. GILLETTE: No, sir, we do not.

MR. NUTTER: Does anyone have anything they

wish to offer in Case Number 6632?

We'll take the case under advisement.

(Hearing concluded.)

.

REPORTER'S CERTIFICATE

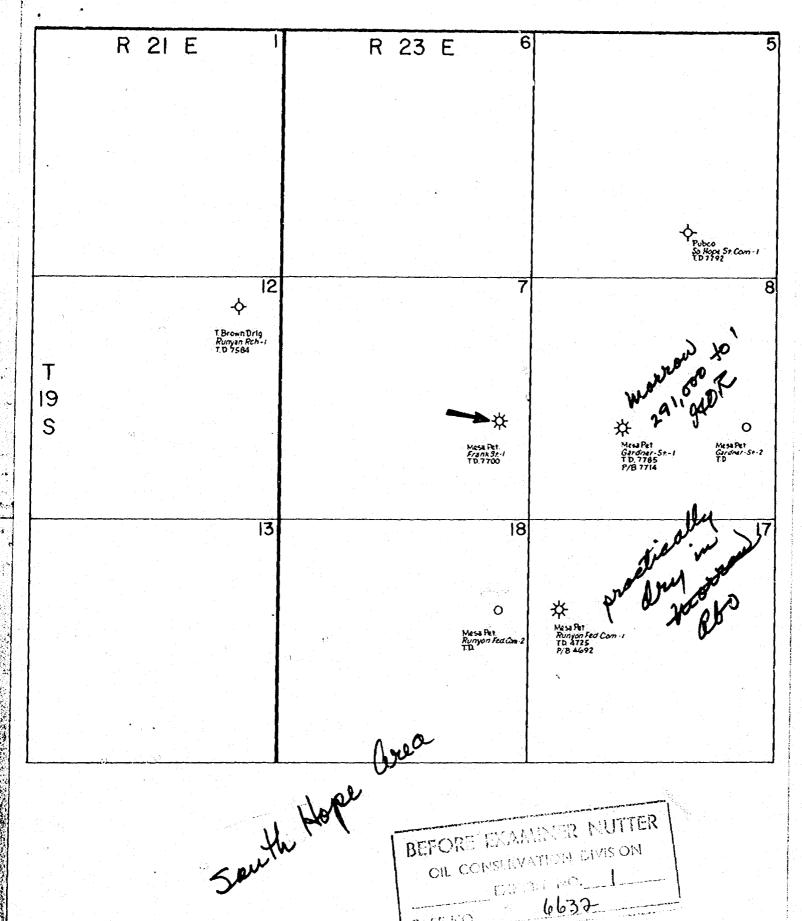
I, SALLY W. BOYD, a court reporter, DO HEREBY
CERTIFY that the foregoing and attached Transcript of
Hearing before the OIL Conservation Division was reported
by me; that the said transcript is a full, true, and correct
record of the hearing, prepared by me to the best of my
ability from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 4632 heard by me on 19.79

___, Examiner

Oil Conservation Division



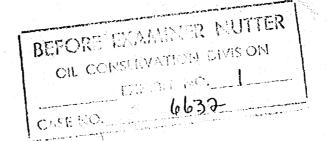




EXHIBIT NO. I LOCATION PLAT

FRANK STATE NO. I Sec. 7, T 19 S,R 23 E Eddy County, New Mexico



EXHIBIT NO. 2

FRANK STATE NO. I

Sec. 7, T 19 S, R 23 E Eddy County, New Mexico

Eddy County, New Mexic

SCALE Morrow to Gas Sales Abo to Gas Sales 13 %, 68 * K-55 ST&C casing set @ 240 RKB then comented with 275 sx Class C. Circulated approx. 35 sx to surface. 8%" 24* K-55 ST&C casing set@ 1665'
RKB then cemented with 200 sx Thix Set +
10° gilsonite+½* flocele + 3% cc, Fottowed by
175 sx HLW + 5° gilsonite + ½* flocele,
Followed by 200 sx Class C + 2% cc.
Circulated 75 sx to Surface. 2 % 4.7 J-55 ABC ... modified tubing <u>PERFS 4395'-4454'</u> CAOF 2557 MCFGPD √ ABO before by Adder Nutter Baker Model L Sliding | 0 OIL CONSCINATION DIVISION. EKIMBIT NO. 3 CASE NO. 6633-Baker Lok-Set Pocker at 7548 PERFS 7592'-7611' MORROW CAOF 1609 MCFGPD PBTD 7656'-5½" 17" ST&C and BT&C casing set © 7700 RKB, Centralizer (total of 10) installed from 4746 to 7658. Cemented with 800 sx 50-50 Poz + 2% get + 0.5% CFR-2 + 5" salt + ½" flocele, Followed by 300 sx Class H + 0.6% CFR-2 + 5" KCL + ½" flocele. Top of cement at 3390 (band log) TOTAL DEPTH 7700

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manage in the contract of the contract of		e:	• • • • • • • • • • • • • • • • • • • •							er Session S	igat (° s	yair y d				A MARINE			
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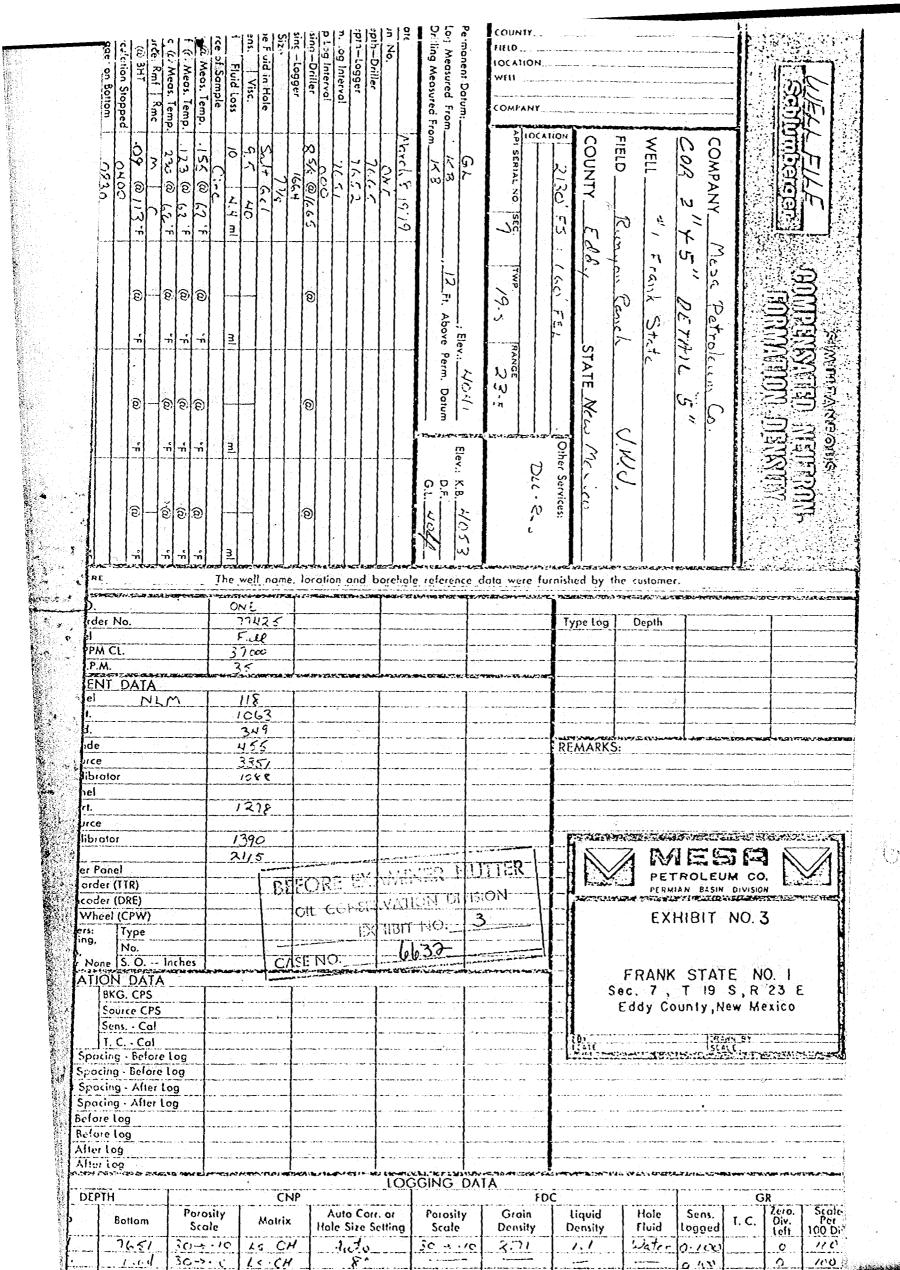
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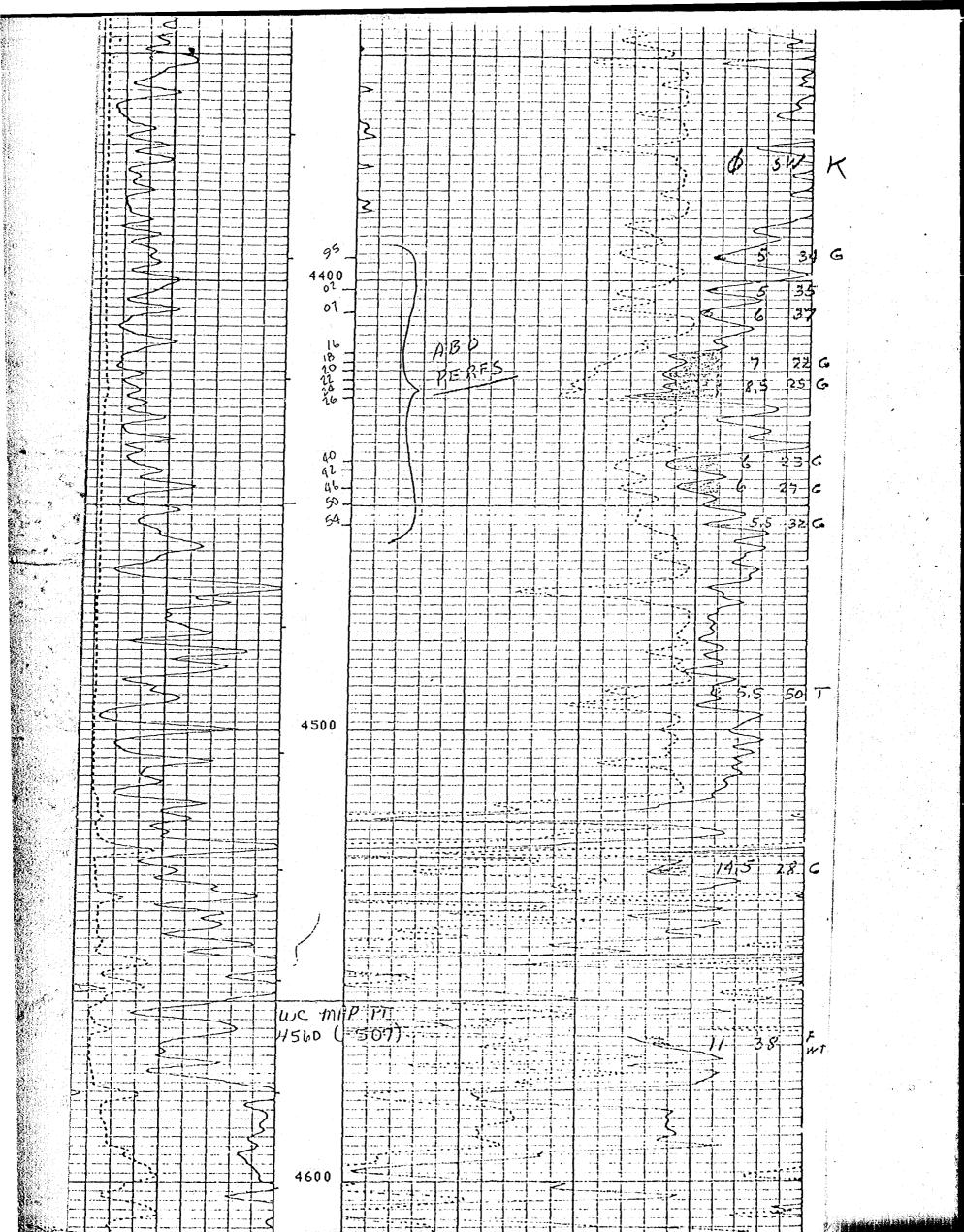
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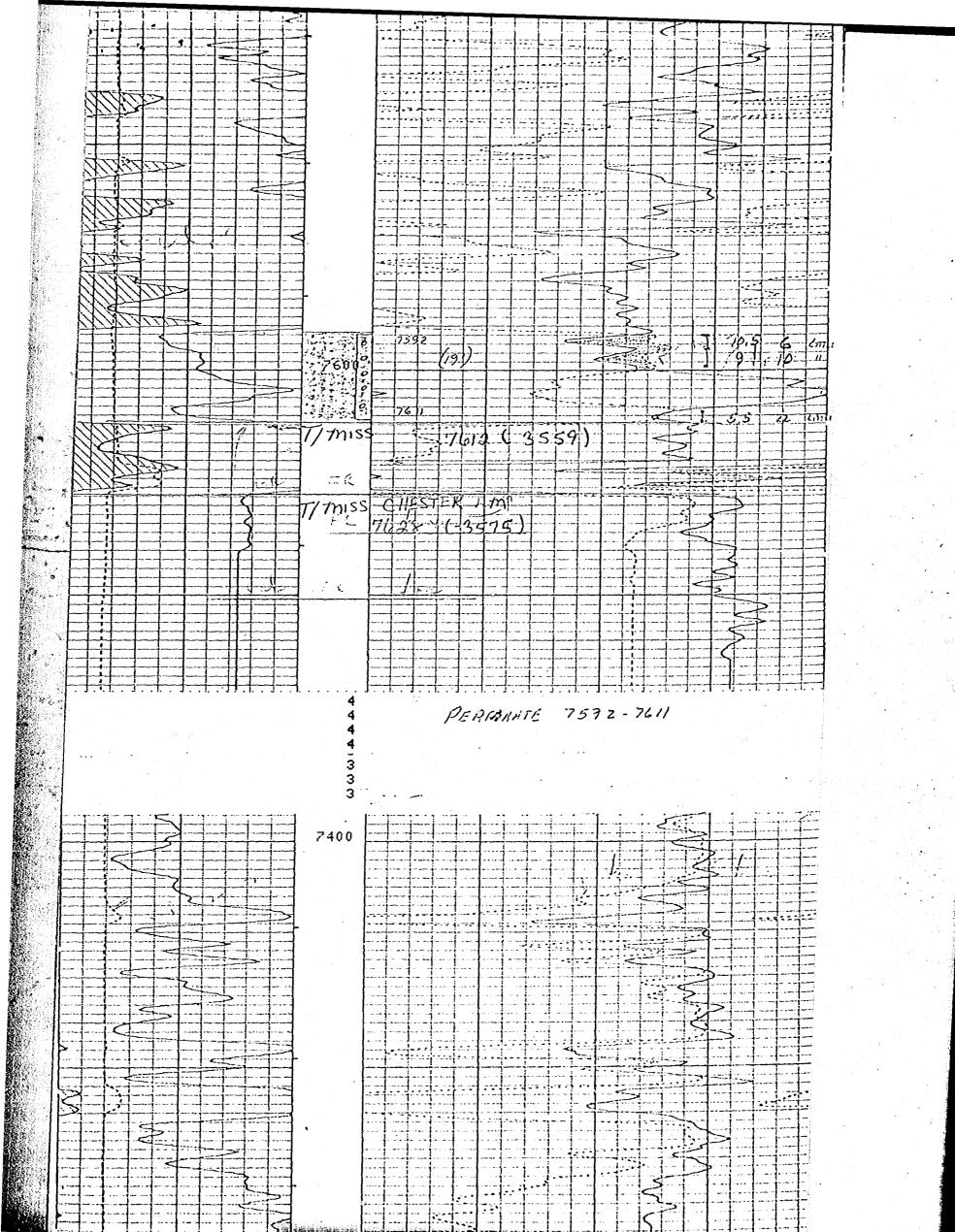
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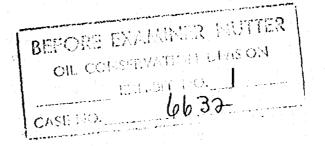




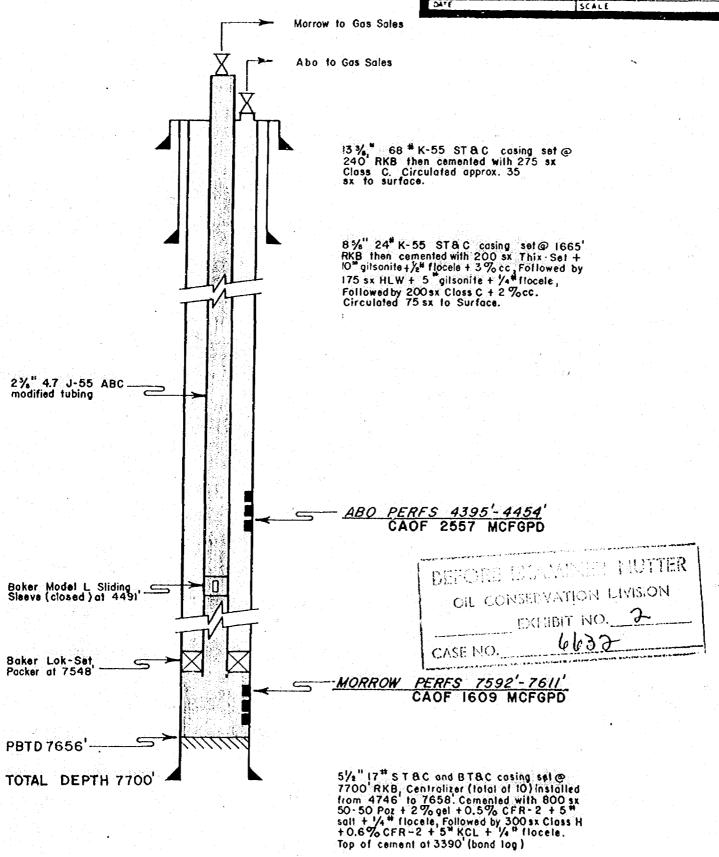


EXHIBIT NO. 2

FRANK STATE NO. I

Sec. 7, T 19 S,R 23 E Eddy County, New México

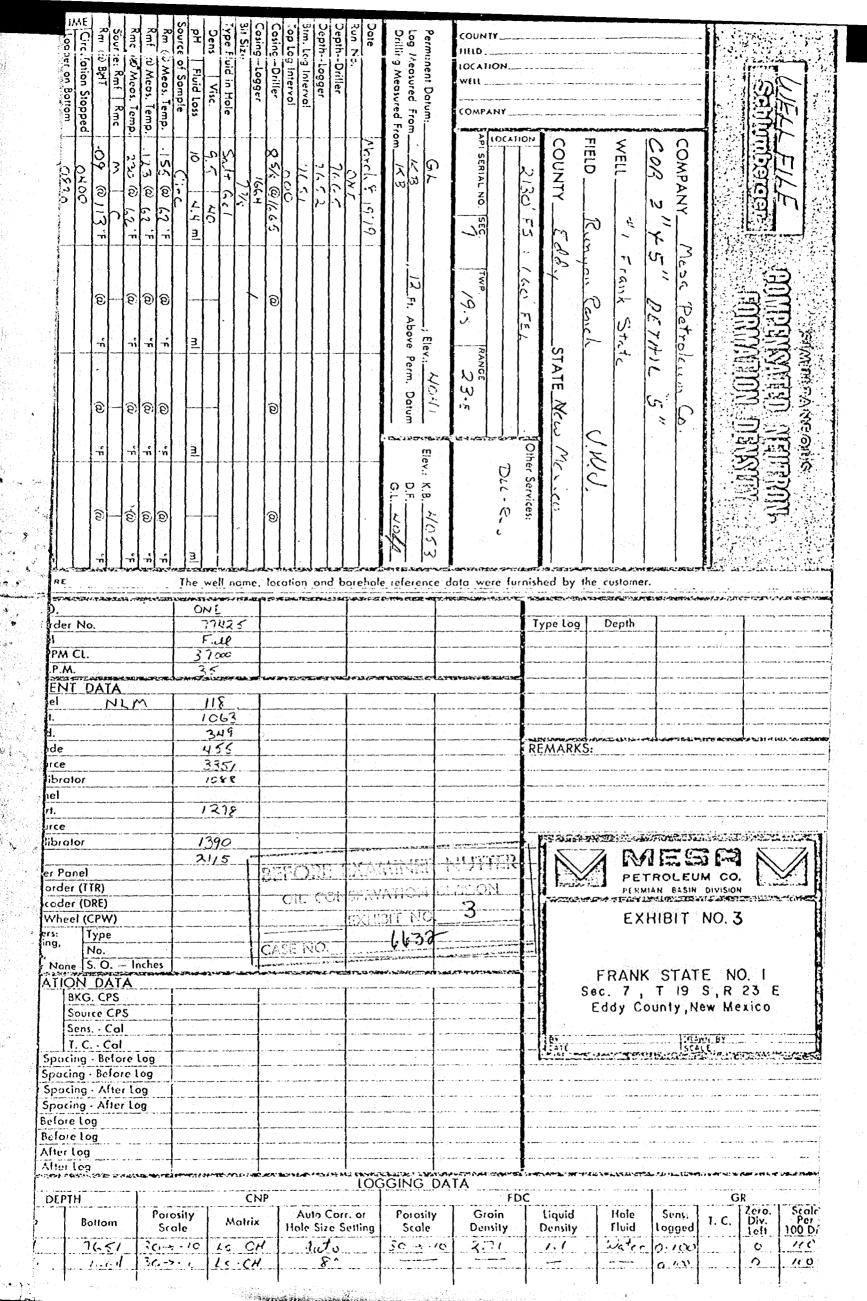
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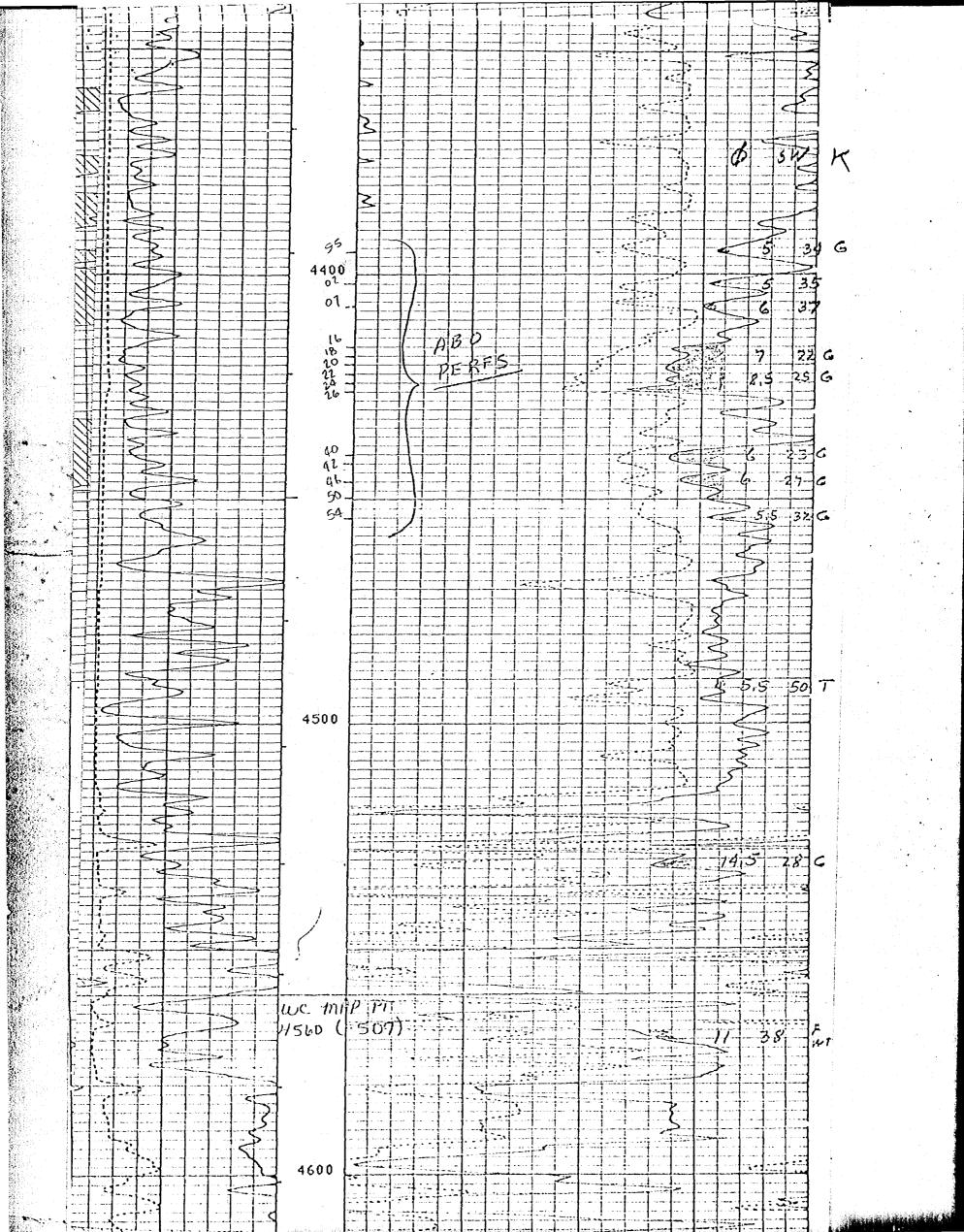


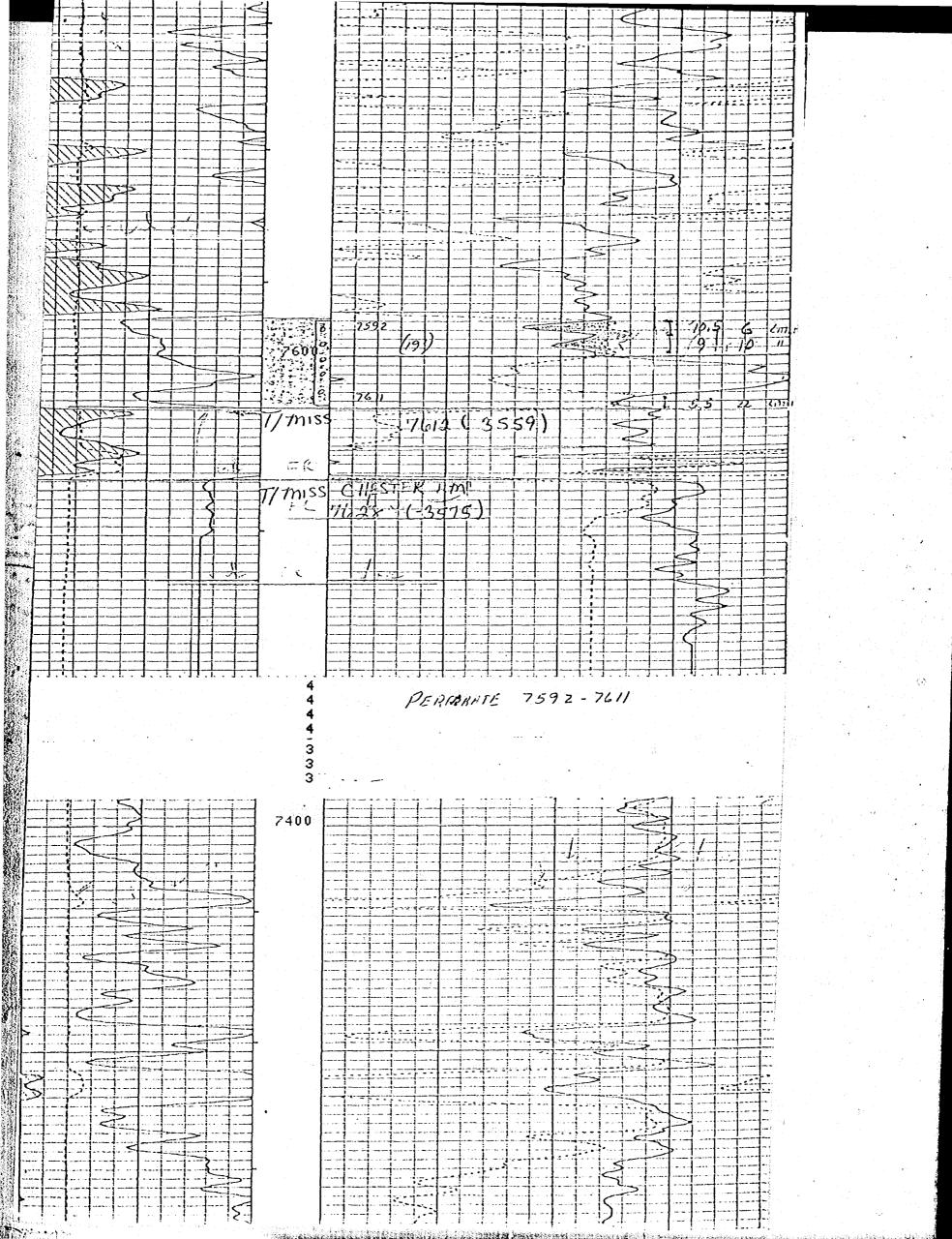
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CO <u>Co</u> WE FIELL	MPANY Mesa Petroleu R 2"45" PETAIL L "I Frank State Runyon Ranch	co.	e customer. Depth		PETROLEUM CO.	EXHIBIT NO.3 NK STATE NO. 1 T 19 S, R 23 E County, New Mexico
ANY LOCATION	130' FS : (60' FEL	Mew Mexicos: Other Services: DLL-R.	furnished by th	REMARKS.		Sec. 7 Sec. 7 Eddy
Permanent Datum: G. A. Log Measured From K Drilling Measured From K	19.5 RANGE 23.	- 5	ence data were		Fig. 1	
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Top tog Interval Casing-Driller Sit Size Type Fluid in Hole Dens. Visc. Cosing-Logger 166 Sult (Cosing-Logger) 167 Sult (Cosing-Logger) 168 Sult) //65 @ @ f c/	0	neme, location ond		SC1.00:	CASEINO
PH Fluid Loss 10 Source of Sample Circ Rm @ Meas. Temp155 @ Rml @ Meas. Temp123 @ Rnc & Meas. Temp123 @ Source Red La	62 °F @ 'F @	(i) 'F	1he well no 0N E 0N E 7227 E 122 E 7 22 E 2 2 2 2 2 2 2 2 2 2 2 2 2 2	118 32.6 33.6 45.6 45.6 5.6 6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	7,1/5	
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ME







NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C-107 3-1-61

euse (, 6, 32

Operator Mesa Petroleum Co		County Eddy	7-18-79
Address 1000 Vaughn Building/Mid		Leaso Frank State	Well No.
Location Unit Sec of Well I	tion Town	19 South	Range 23 East
zones within one mile of the subject	well? YESN	юХ	of a well in these same pools or in the sam
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation			Profit in the second se
b. Top and Bottom of Pay Section (Perforations)	Abo 4395'4454	, '	Morrow 7592'-7611
c. Type of production (Oil or Gas)	Gas		
d. Method of Production	uas		Gas
(Flowing or Artificial Lift)	Flowing		Flouring
4. The following are attached. (Please of	\		Flowing
tors have been furnis	hed copies of the application well or other acceptable log ich log is not available at the on which this well is located.	on." with tops and bottoms of produce time application is filed it shall together with their correct maili	
- ricou vertoreum oo operati	23 arr orrace rease.	3 co chi 3 weil as I an	10.
		•	
ECEIV	EDIN		
JUL 201			
OIL GONSERVATION SANTA	ON DIVISION FE		
6. Were all operators listed in Item 5 ab date of such notification	ove notified and furnished a N/A	 itory Coordinator of t	NO If answer is yes, give
CO (co under my supervision and direction and th	mpany), and that I am autho at the facts stated therein a	rized by said company to make the true, correct and complete to the	is report; and that this report was prepared the bost of my knowledge.
		R. E. MAT	THIS Signature

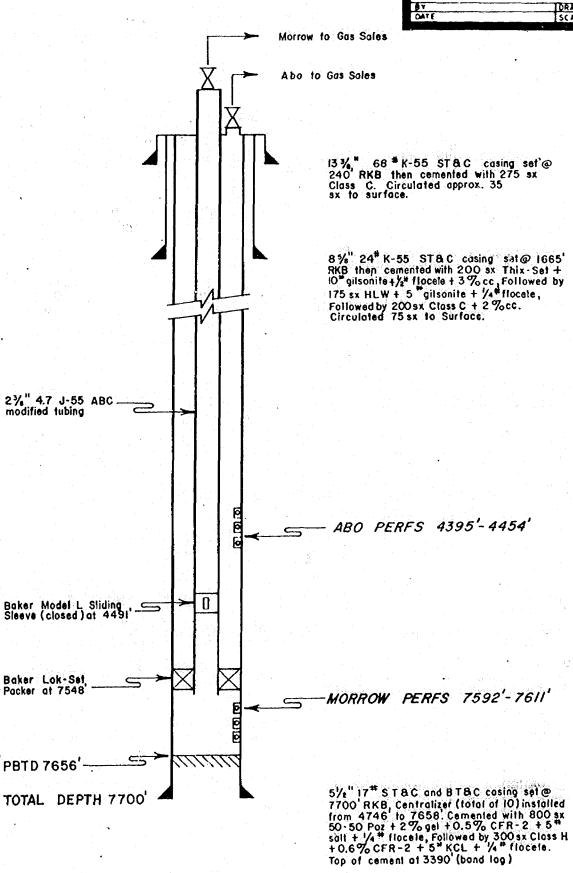
*Should walvers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conscruction Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



NO. I FRANK STATE Sec. 7, T 19 S, R 23 E Eddy County, New Mexico

SCALE



Citective 1-1-47 Substreeds C-158 W MEXICO OIL CONSERVATION COMMIST TH WE LOCATION AND ACREAGE DEDICATIO. PLAT All distances must be from the Frank State rbb3 23 Fost Mesa Patroleum Co East 19 South Actroque: 320 Leigini 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 660 'nit Letter 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both us to working interest and rovalist) Actual Fre lage Ground Level Fley 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consultation unitization. force-pooling, etc? If snawer is "no." list the owners and tract descriptions which have actually been consolidated. (I've reverse side of this form if necessary) duted by communitization, unitization, force-pooling, etc? No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, Vo allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, unitization) and the second of the communitization of the co No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-atandard unit, eliminating such interests, has been approved by the Commission. ☐ Yes ☐ No P(5):3sion. Steve D ··· Fle Steve Douglas LG 5025 Engineer Mesa Petroleum Co. January 10, 1979 I hereby certify that the well forotion ECEIVED JUL2 0',1979 knowledge and belief. VILLE TA OIL CONSERVATION DIVISION SANTA RE Chale Surveyed January (, 1979 Registered Figlessiandi Liginee 670 676 3239 Ronald J Eidson -16 50

WELL LOCATION AND ACREAGE DEDICATIO. PLAT

Porm C-102 Supersedes C-128 Effective 1-1-65

's crains All distances must be	from the outer boundaries of the	Cifertive past
lesa Fetraleum Ca	1.000	
Section Township	Frank State	Well to
Actual Footage Location of Well:	Havige Co.	unty
2120	23 Fast	Eddy
Froducing Formation	660	Libe East
4040.6 Abo	Pool feet from	line
1. Outling the acressed the	Undesignated	Dedicated Arreage:
Outline the acreage dedicated to the subject we If more than one lease is dedicated.	Il by colored pencil or had	kyra = 1
2. If more than one lease is dedicated to the well interest and royalty).		note marks on the plat below.
interest and royalty).	, outline each and identify	the ownership the cast at a
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3. If more than one lease of different ownership is duted by communitization, unitization, force-pooling	8. clc?	the interests of all owners been consoli-
The state of	consolidation N/A	
If answer is "no," list the owners and tract describis form if necessary.)		
inis form if necessary.)	ptions which have actually	been consolidated. (l'se reverse all
found and it will be assigned to the well until all i	nleresta la l	in terse side of
No allowable will be assigned to the well until all in forced-pooling, or otherwise) or until a non-standard sion.	mit elimination	dated (by communitization, unitivation
forced-pooling, or otherwise) or until a non-standard sion.	anch community and inferior	ests, has been approved by the Commis-
	Na - Tanana	
	- Carried - Carr	CERTIFICATION
Mesa		I hereby certify that the information con-
LG 5025		toined herein is true and complete in the
		best almy knowledge and ball
		R. L. Niachw
		Name
		R. E. MATHIS
		1 : 51110n
	1	Regulatory Coordinator
		Mesa Petroleum Co.
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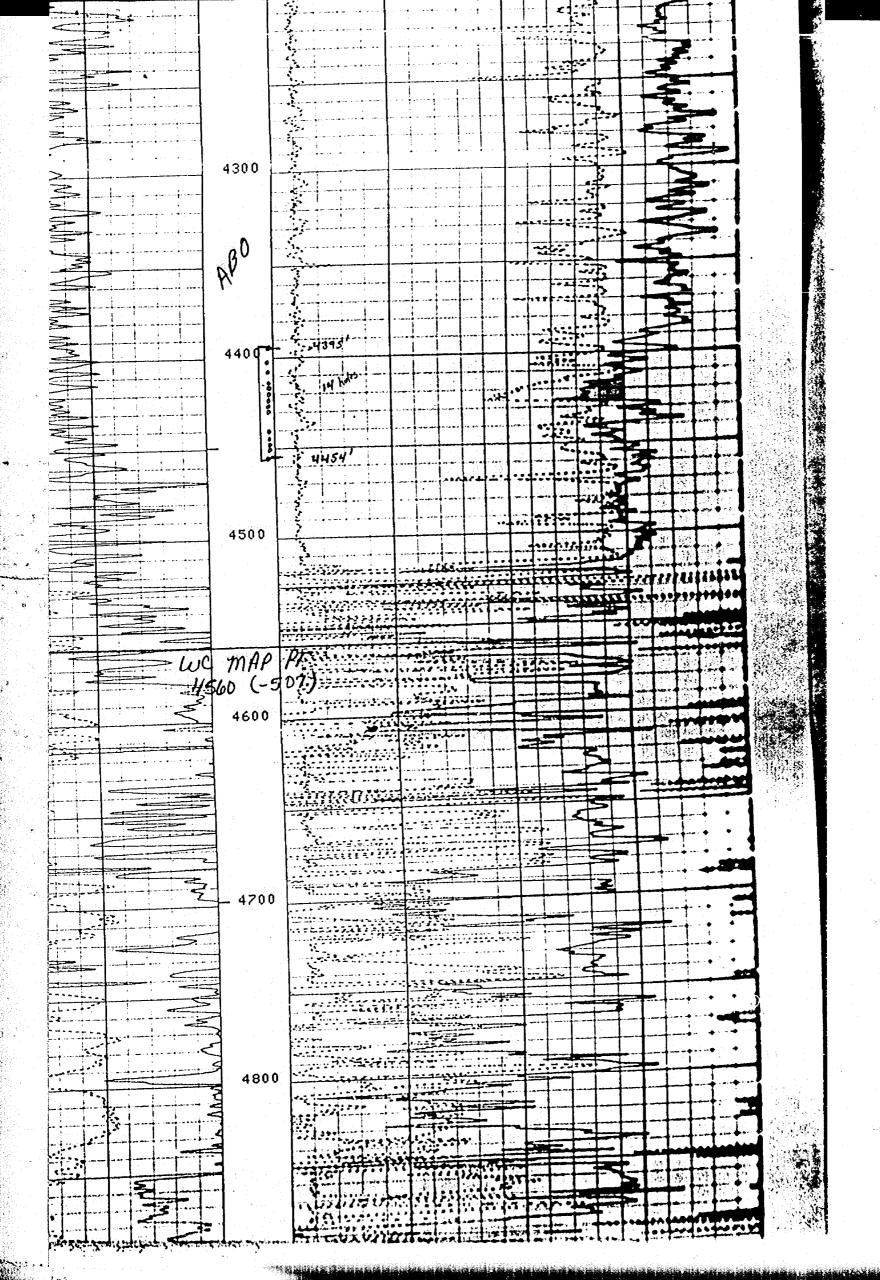
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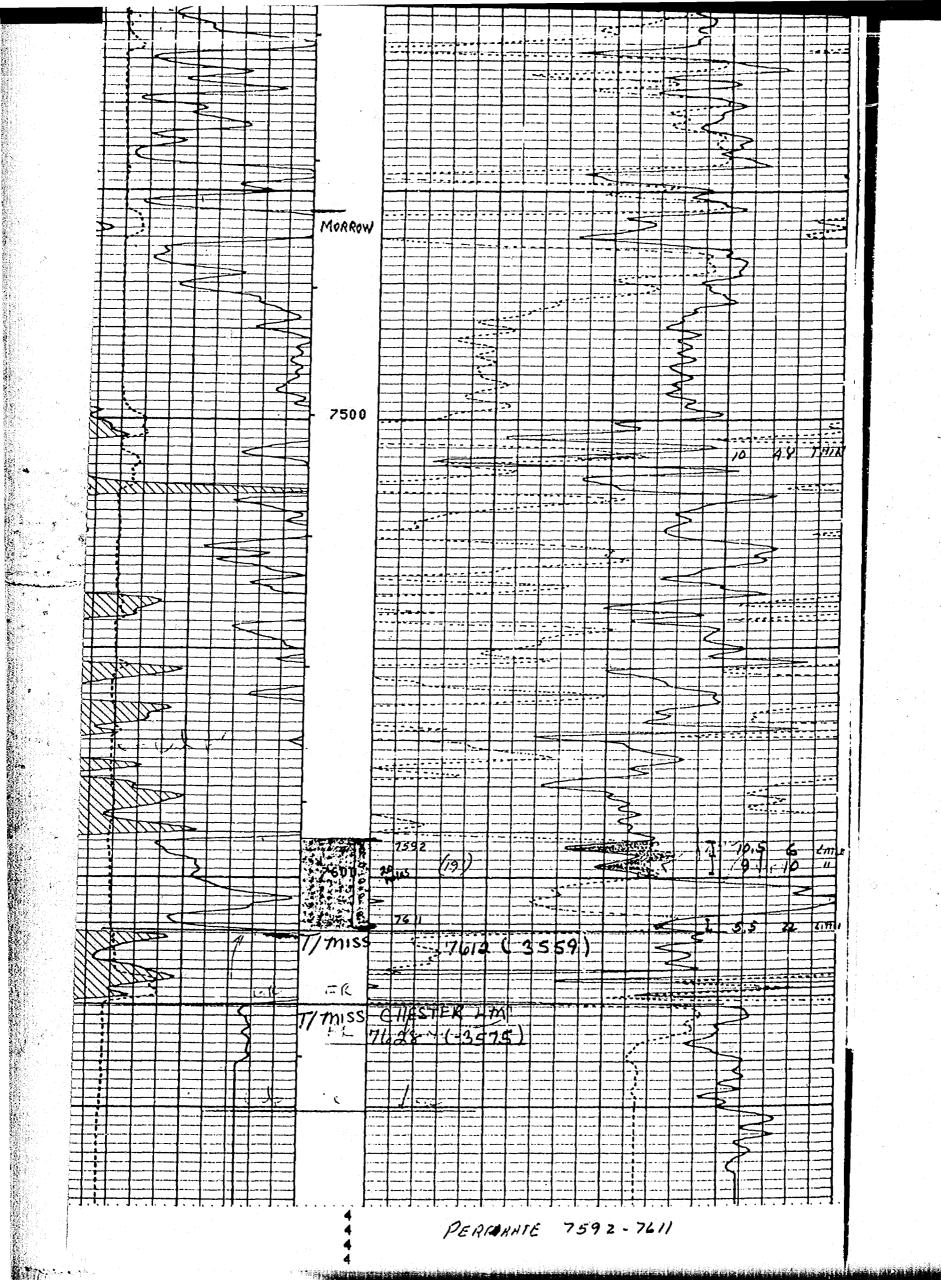
Schlumberger WELL UNU STATE New Mcxico Other Services: DLL . R. S API SERIAL NO. 19.5 23.5 borehole reference Elev.: K.B. 4/053 4041 GL Permanent Datum: .; Elev.:_ 12 Fl. Above Perm. Datum KB Log Measured From_ D.F. Drilling Measured From 18 GI NOL Dale Run' Nó. March 8, 19:19 ONE Depth-Driller 7665 name, location and Depth-Logger 1652 Bim. Log interval Top Log Interval Casing—Driller 7651 000 5/8 @1665 1664 @ @ @ Casing-logger 71/8 Salt Gel Bit Size Type Fluid in Hole The well Dens. Visc. pH Fluid Loss 40 pH | Fluid Loss
Source of Sample 4.4 ml m mi Rm @ Meas, Temp. Rmf @ Meas, Temp. .155 @ 62 F @ ٠F @ 'F @) 'F @ @ 62 @ ٠۴ ۴, (ā) Rmc @ Meas. Temp. @ 62 (a) 1(0) Source: Rmf | Rmc M Circulation Stopped Rm @ BHT @113 F (a) (ñ) .09 0400 Logger on Bottom 0830 Mox. Rec. Temp. Equip. Location

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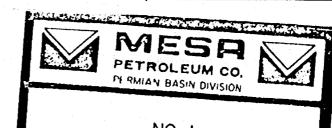
NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C-107 5-1-61

Operato Case 6632 Mesa Petroleum Co Address County 1000 Vaughn Building/Midland, Texas 79701 Date Eddy 7-18-79 Location Unit Well No. Frank State Section of Well 1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same 2. If answer is yes, identify one such instance: Order No. ; Operator Lease, and Well No .: 3. The following facts are submitted: Upper a. Name of Pool and Formation Intermediate Zone b. Top and Bottom of Lower Zone Pay Section 4395'---4454' (Perforations) c. Type of production (Oil or Gas) Morrow d. Method of Production 7592'-7611 Gas (Flowing or Artificial Lift) The following are attached. (Please check YES or NO) Gas Elowing a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including
diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. X Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) 5. List all offset operators to the lease on which this well is located together with their correct mailing address. Mesa Petroleum Co operates all offset leases to this well as 1 unit. 6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES____NO__ CERTIFICATE: I, the undersigned, state that I am the Regulatory Coordinator CO (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. R. E. MATHIS.

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



NO. 1 FRANK STATE Sec. 7, T 19 S, R 23 E Eddy County, New Mexico

DRIWY BY Morrow to Gas Sales

Abo to Gos Soles

13 % 68 # K-55 ST & C casing set @ 240 RKB then cemented with 275 sx class C. Circulated approx. 35

8%" 24* K-55 ST&C casing set@ 1665' RKB then cemented with 200 sx Thix-Set + 10* gilsonite+12* flocele + 3% cc, Followed by 175 sx HLW + 5* gilsonite + 1/4* flocele, Followed by 200 sx Class C + 2% cc. Circulated 75 sx to Surface.

0

Baker Model L Sliding Sleeve (closed) at 4491

2%" 4.7 J-55 ABC modified tubing

ņ

Baker Lok-Set Packer at 7548

MORROW PERFS 7592'-7611'

PBTD 7656'-

TOTAL DEPTH 7700'

5½" 17# ST &C and BT&C casing set @ 77C0' RKB, Centralizer (lotal of 10) installed from 4746 to 7658. Cemented with 800 sx 50·50 Poz + 2 % get + 0.5% CFR - 2 + 5 ** salt + ½ ** flacele, Followed by 300 sx Class H + 0.6% CFR - 2 + 5 ** KCL + ½ ** flacele. Top of cement at 3390' (bond log)

ABO PERFS 4395'-4454'

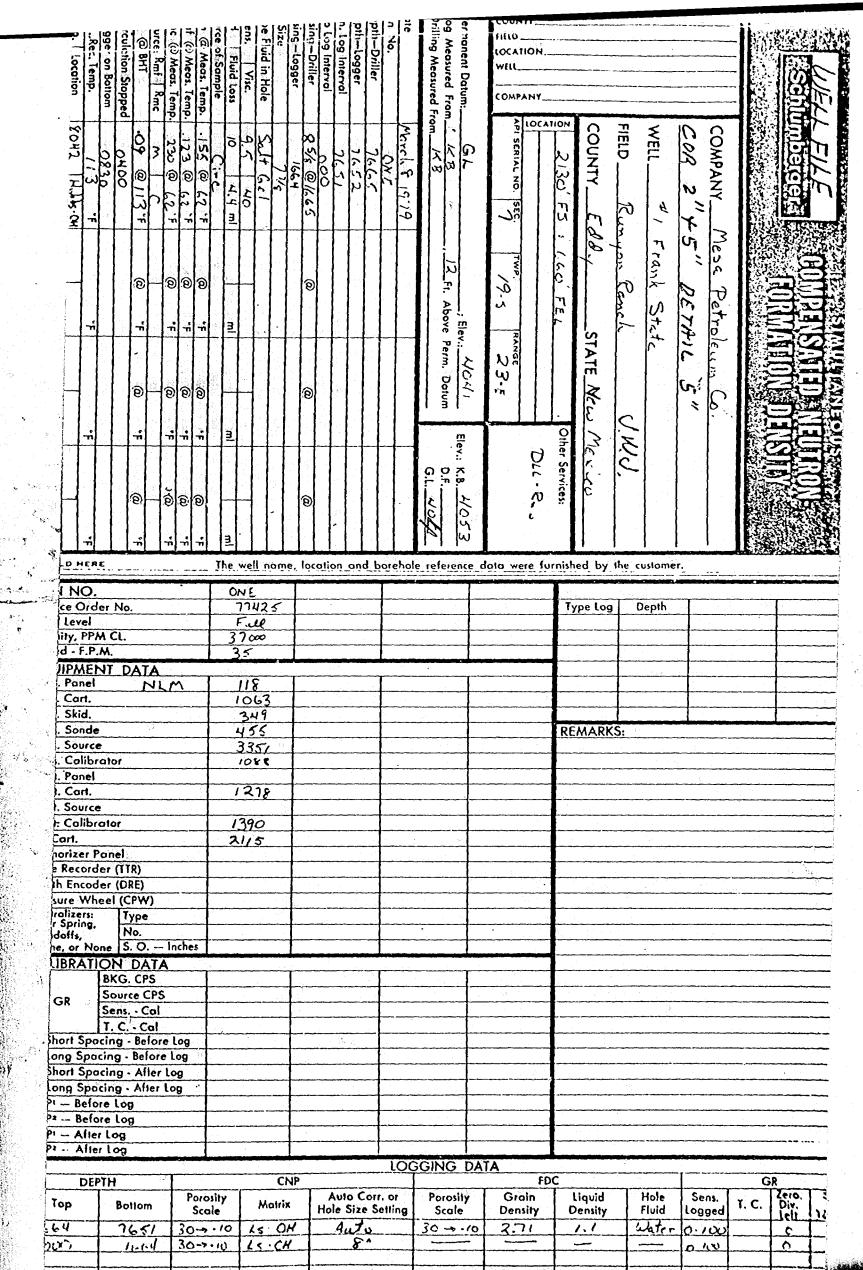
WELL'LOCATION AND ACREAGE DEDICATION, PLAT

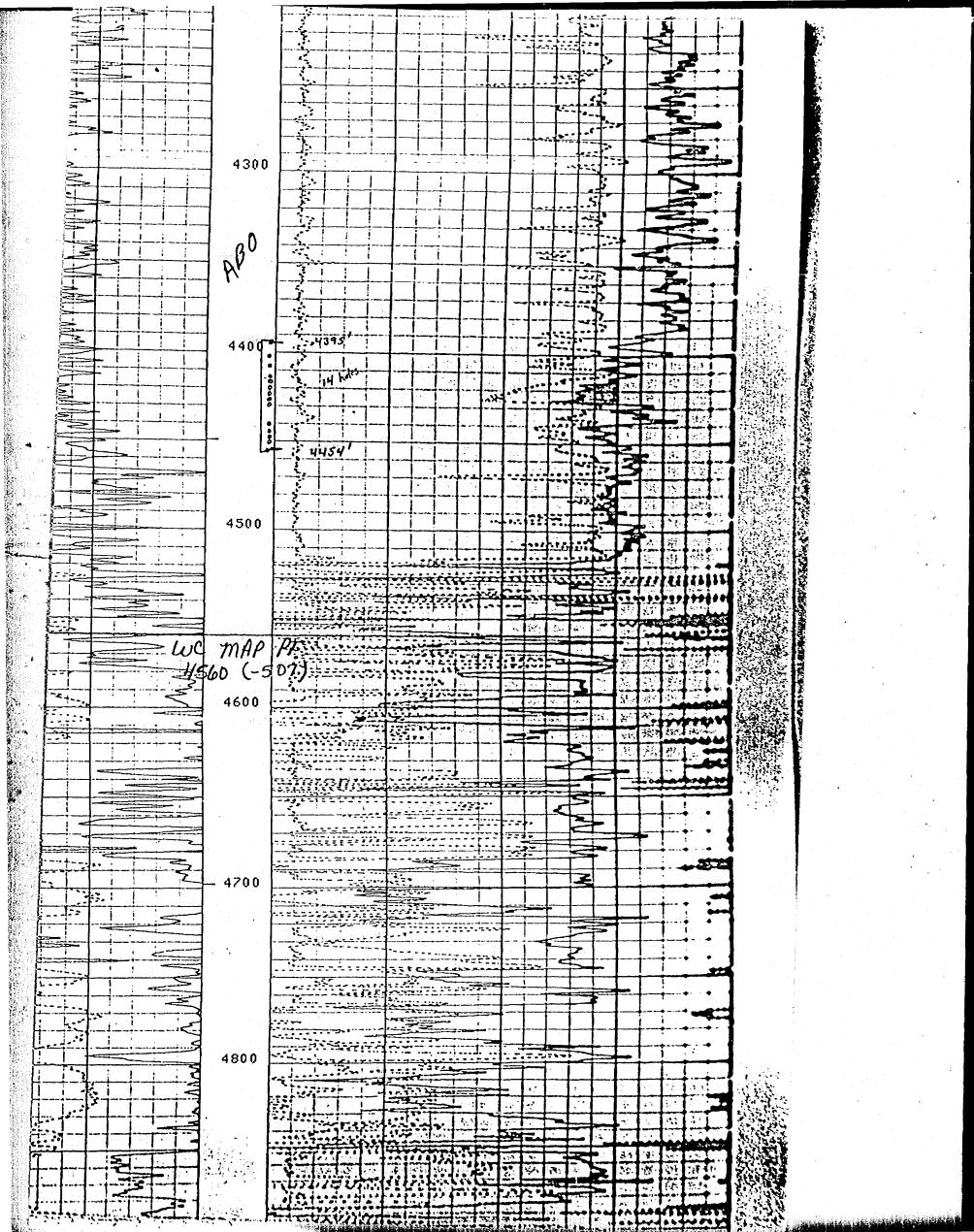
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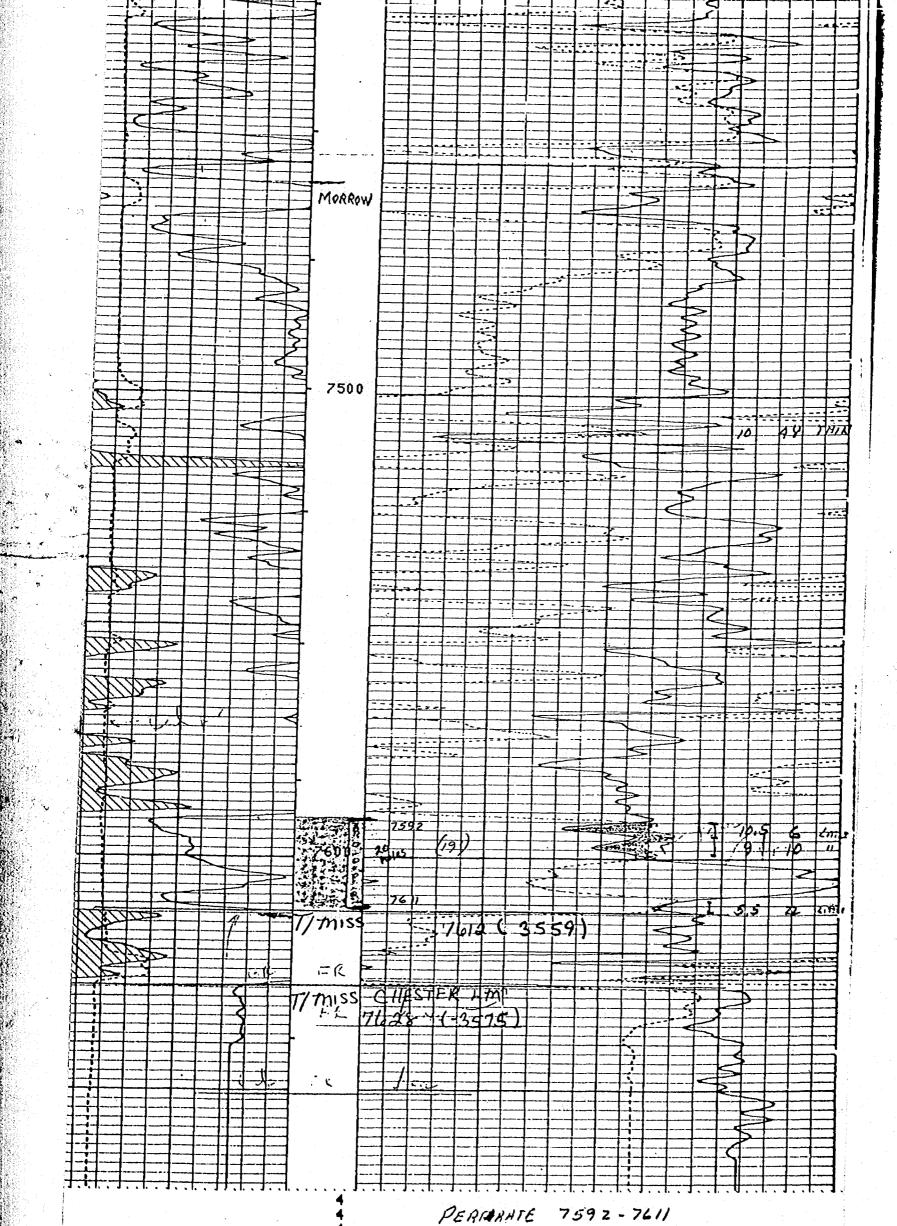
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Docket No. 32-79

Dockets Nos. 35-79 and 36-79 are tentatively set for September 5 and 19, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 22, 1979

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

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

CASE 6545: (Continued from July 25, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace, Travelers Indemnity Company, and all other interested parties to appear and show cause why the Kuklah Baby Well No. 1 located in Unit G of Section 24, Township 22 South, Range 26 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 6626: Application of T. H. McElvain Oil & Gas Properties for pool commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the commingling of Gallup and Dakota production in its Miller B Well No. 6 located in Unit G of Section 12, Township 24 North, Range 7 West.
- CASE 6627: Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying a previously approved 64.32-acre non-standard unit comprising the NN/4 NW/4 and that portion of Lot 5 lying north of the San Juan River, all in Section 18, Township 29 North, Range 14 West, Cha Cha-Gallup Oil Pool, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE (628: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Skaggs-Glorieta, Skaggs-Drinkard and East Weir-Blinebry production in the wellbore of its M. B. Weir "B" Well No. 9 located in Unit 0 of Section 12, Township 20 South, Range 37 East.
- CASE 6629: Application of Hilliard 0il & Gas, Inc. for directional drilling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to directionally drill its Hanson Bonds Well

 No. 1 located 1650 feet from the North line and 330 feet from the East line of Section 20, Township

 9 South, Range 35 East, to a Devonian bottom hole location within 100 feet of a point 1325 feet
 from the North line and 430 feet from the East line of said Section 20.
- CASE 6630: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and BS Mesa-Gallup production in the wellbore of its San Juan 27-4 Unit Well No. 37 located in Unit N of Section 33, Township 27 North, Range 4 West.
- CASE 6631: Application of Reserve Oil, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat gas and Langlie Mattix oil production in the wellbore of its Cooper Jal Unit Well No. 149-306 located in Unit J of Section 18, Township 24 South, Range 37 East.
- Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Frank State Well

 No. 1 located in Unit I of Section 7, Township 19 South, Range 23 East, to produce gas from the Abo
 and Morrow formations, Runyan Ranch Field, through the casing-tubing annulus and through tubing.
 - CASE 6633: Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Yates Federal Com Well No. 1-Y located in Unit J of Section 20, Township 17 South, Range 27 East, to produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated Morrow pool through the casing-tubing annulus and through tubing.
- CASE 6634: Application of Durham Inc. for special pool rules or a spacing exception, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Lake Arthur-Pennsylvanian Gas Pool to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for Pennsylvanian gas pools rather than the present 160-acre spacing. In the alternative applicant seeks to limit the application of the pool's rules to the horizontal limits of the pool, being the SW/4 of Section 31, Township 15 South, Range 27 East.

LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY

1000 FIRST NATIONAL BANK TOWER

OF COUNSEL CLARENCE E. HINKLE

POST OFFICE BOX 3580

MIDLAND, TEXAS 79702 (915) 683-4691

W. E. BONDURANT, JR. (1914-1973)

ROSWELL, NEW MEXICO OFFICE 600 HINKLE BUILDING

(505) 622-6510

ONLY ATTYS. COFFIELD, MARTIN, BOZARTH. BOHANNON, FOSTER, ALLEN, ALLEN & BURFORD

LICENSED IN TEXAS

August 21, 1979

Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: Mesa Petroleum Co. Oil Conservation Division Cases 6632 and 6633

Gentlemen:

LEWIS C. COX, JR.

PAUL W. EATON, UR.

CONRAD E.COFFIELD HAROLD L. HENSLEY, JR.

STUART D. SHANOR

PAUL J. KELLY, JR.

JAMES H. BOZARTH

PAUL M. BOHANNON J. DOUGLAS FOSTER

K-DOUGLAS PERRIN

JACQUEUNE W ALLEN T. CALDER EZZELL,JR.

WILLIAM B. BURFORD JOHN S. NELSON RICHARD E.OLSON

C. RAY ALLEN

DOUGLAS L.LUNSFORD

C. D. MARTIN

This letter is to provide evidence of the entry of appearance by the undersigned as New Mexico attorney of record for Mesa Petroleum Co. in connection with the two above referenced cases. The cases will be presented to the Examiner by Mr. Dale Gillette of Mesa's legal department in Amarillo, Texas. Mr. Gillette is admitted to practice in Texas, but not in New Mexico. Accordingly, it will be appreciated if you will note the Mesa case files to show the undersigned as attorney of record in order to satisfy the appropriate rules and regulations of the Oil Conservation Division.

Thank you.

Very truly yours,

HINKLE, COX, EATON, COFFIELD & HENSLEY

Conrad E. Cryfield Conrad E. Coffield

CEC:rh

xc: Mr. Mike Houston

Mesa Petroleum Co. 1000 Vaughn Building Midland, Texas 79701

Mesa Petroleum Co. XC:

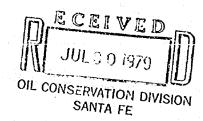
Post Office Box 2009 Amarillo, Texas 79105

> D. DAIE GILLETTE ATTORNEY

> > P 0 BOX 2009 AMARILLO, TEXAS 70169

MESA PETROLEUM CO. 808-378-1000





July 26, 1979

Case 6632

New Mexico Oil Conservation Division P. O. Box 2088 Sante Fe, New Mexico 87501

Mesa Petroleum Co Frank State #1 2130 FSL & 660 FEL Sec 7, T19S, R23E Eddy County, New Mexico Mesa Petroleum Co Yates Federal Com #1-Y 1980 FSL & 1995 FEL Sec 20, T17S, R27E Eddy County, New Mexico

Subject: Request for multiple completion hearing

Gentlemen:

It is requested that applications for multiple completion for the above captioned wells be entered on the docket scheduled for August 22, 1979. Said applications for completion are being filed as required by Rule 112-A.

Please notify R. E. Mathis, Regulatory Coordinator, Mesa Petroleum Co, 1000 Vaughn Building, Midland, Texas 79701 (Phone No. 915/683-5391) if additional information is required or if the scheduled hearing date is changed.

Thank you,

R. E. Mathis

REM/v1h

MESA PETROLEUM CO. / VAUGHN BUILDING / SUITE 1000 / AC 915 / 683-5391 / MIDLAND, TEXAS 79701

OIL CONSERVATION COMMISSION Artesia DISTRICT

Gentlemen: OIL CONSERVATION DIVISION Gentlemen: OIL CONSERVATION DIVISION SANTA FE SANTA FE SANTA FE SANTA FE SANTA FE SANTA FE	Proposed MC X Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen: OIL CONSERNTA FE	18-79
for the nesa letisleum 6. Frank State Operator Lease and W	/- I 7-19-23 Well No. Unit, S-T-R
andarions are as follows:	
Set for hearing Does not qualify for almin	estratui
	Yours very truly,
	210 Gressett

dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

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CASE NO. 6632
Order No. R- (0)/4
APPLICATION OF MESA PETROLEUM COMPANY
FOR A DUAL COMPLETION, EDDY
COUNTY, NEW MEXICO.
ORDER OF THE DIVISION
BY THE DIVISION:
This cause came on for head
This cause came on for hearing at 9 o'clock a.m. on August 22
August 22 , 19 79 , at Santa Fe, New Mexico, before Examiner Daniel S. Nutter
NOW, on this day of August , 1979 , the
Division Director, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,
FINDS:
(1) That due public notice having been given as required by
dw, the Division has jurisdiction of this cause and the subject
natter thereof.
(2) That the applicant, Mesa Petroleum Company
eeks authority to complete its Frank State
ell No. 1 , located in Unit I of Section 7 . Town-
ell No. 1 , located in Unit I of Section 7 , Town- hip 19 South , Range 23 East Runyau Rauch Field, Dunty, New Movice and dual
ounty, New Mexico, as a dual completion (conventional) to
(Authorite Sales)
oduce gas from the Abo and Morrow formation Runda Ranch Field,
through the casing-tuhing annulus and through tubing. Through 2% inch
lubing and gas from the Abo land! It
refing tubing annuly
Subing and gas from the Abo farmation through the series of a packer set at 7548 feet
The property of 1248 greet

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices. (4) That approval of the subject application will prevent waste and protect correlative rights. IT IS THEREFORE ORDERED: (1) That the applicant, Mesa Petroleum Company is hereby authorized to complete its Frank State Well \times Well No, $\frac{1}{}$, located in Unit $\frac{1}{}$ of Section Township 19 South , Range 23 East County, New Mexico, as a ____dual completion (conventional) (tubingless) to produce gas from the Abo and Morrow formations, Runyan Ranch Field, through the casing-tubing annulus and through tubing. PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order; PROVIDED FURTHER, that the applicant shall take tests upon completion and annually thereafter during the Annual Shut-in Presource Test Period for the Morrow gove.

(2) That jurisdiction of this cause is retained for the

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

entry of such further orders as the Division may deem necessary.

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designated.