

CASE 5618: MESA PET. CO. FOR A
TRIPLE COMPLETION, SAN JUAN
COUNTY, NEW MEXICO

Jim Farrell
372 3411
406
Am. arillo
Tues 1/27

CASE NO.

5618

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,

ETC.



DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

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

LAND COMMISSIONER
PHIL R. LUCERO
January 28, 1976



STATE GEOLOGIST
EMERY C. ARNOLD

Mr. Clarence Hinkle
Hinkle, Bondurant, Cox
& Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: CASE NO. 5618
ORDER NO. R-5157

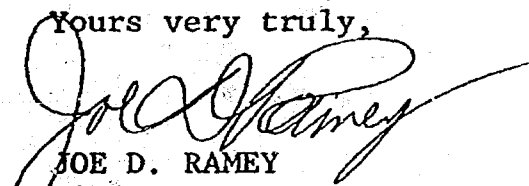
Applicant:

Mesa Petroleum Company

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 x

Other Don Dent

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. 5618
Order No. R-5157

APPLICATION OF MESA PETROLEUM CO.
FOR A TRIPLE COMPLETION, SAN JUAN
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
January 20, 1976, at Santa Fe, New Mexico, before Examiner,
Daniel S. Nutter.

NOW, on this 27th day of January, 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, Mesa Petroleum Co., seeks authority
to complete its Primo "A" Well No. 1, located in Unit D of Sec-
tion 6, Township 31 North, Range 10 West, NMPM, San Juan County,
New Mexico, as a triple completion (conventional) to produce gas
from the Blanco-Pictured Cliffs Pool through the casing-tubing
annulus, the Blanco-Mesaverde Pool through 2 1/16-inch tubing,
and from an undesignated Chacra gas pool through 2 1/16-inch
tubing, with separation of the zones achieved by means of packers
set at approximately 2764 feet and 4050 feet.

(3) That the mechanics of the proposed triple 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 Co., is hereby
authorized to complete its Primo "A" Well No. 1, located in Unit D
of Section 6, Township 31 North, Range 10 West, NMPM, San Juan
County, New Mexico, as a triple completion (conventional) to

-2-

Case No. 5618
Order No. R-5157

produce gas from the Blanco Pictured Cliffs Pool through the casing-tubing annulus, the Blanco-Mesaverde Pool through 2 1/16-inch tubing, and from an undesignated Chacra gas pool through 2 1/16-inch tubing.

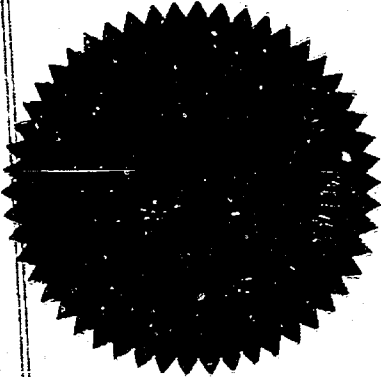
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


Phil R. Lucero
PHIL R. LUCERO, Chairman

Emery C. Arnold
EMERY C. ARNOLD, Member

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

S E A L

jr/

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 20, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Mesa Petroleum Co. for
a triple completion, San Juan County,
New Mexico.

CASE
5618

BEFORE: Daniel S. Nutter, 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:

Don Dent, Esq.
Legal Counsel for Mesa Petroleum
Amarillo, Texas

Clarence Hinkle, Esq.
HINKLE, BONDURANT, COX & EATON
Attorneys at Law
Hinkle Building
Roswell, New Mexico

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General Court Reporting Service
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Page 2

I N D E X

	<u>Page</u>
1	
2	
3	<u>JAMES L. FARRELL</u>
4	Direct Examination by Mr. Dent
5	Cross Examination by Mr. Nutter
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

EXHIBIT INDEX

	<u>Page</u>
12	8
13	Mesa's Exhibit Number One, Plat
14	Mesa's Exhibit Number Two, Schematic Diagram
15	Mesa's Exhibit Number Three, Packer Leakage Test
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

1 MR. NUTTER: We will call Case Number 5618.

2 MR. CARR: Case 5618, application of Mesa Petroleum
3 Company for a triple completion, San Juan County, New Mexico.

4 MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant,
5 Cox and Eaton, appearing on behalf of Mesa Petroleum Company.
6 We are associated with Mr. Don Dent, the general attorney
7 for Mesa. He will put on the case.

8 (THEREUPON, the witness was duly sworn.)
9

10 JAMES L. FARRELL

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

14 DIRECT EXAMINATION

15 BY MR. DENT:

16 Q Will you please state your name?

17 A James L. Farrell.

18 Q Mr. Farrell, for whom are you employed and in what
19 capacity?

20 A Mesa Petroleum Company, Operations Manager.

21 Q Would you tell the Examiner the purpose of Mesa's
22 application?

23 A The purpose of our application is to submit for
24 approval the triple completion of our Primo 1-A Well,
25 San Juan County, New Mexico.

1 Q Was the application for multiple completion prepared
2 by you or under your supervision?

3 A Yes, it was.

4 Q Were the attachments in paragraph four of that
5 application consisting of a sketch of the multiple completion,
6 a plat of the location of the wells, the waivers and an
7 electrical log furnished to the Commission?

8 A Yes, sir.

9 Q Did you receive the waivers from all of the offset
10 operators?

11 A Well, by checking with the Commission, they have
12 on file waivers of all of the offset operators.

13 Q Has there been prepared also for this hearing, by
14 you or under your supervision, certain exhibits?

15 A Yes, sir.

16 Q I hand you what has been marked as Exhibit Number
17 One and ask you to identify that and state what it shows?

18 A This is a plat required by Four-B of the application
19 showing the offset operators within a one-mile radius and
20 indicating the productive interval from which the offset wells
21 are producing.

22 Q Who are the offset operators?

23 A Amoco Production Company, W. P. Carr, El Paso
24 Natural Gas Company and Aztec Oil Company.

25 Q Where is the well located that you are seeking the

1 multiple completion for?

2 A. The Primo 1-A is located eleven hundred and ninety
3 feet from the north and west line, Section 6, Township 31
4 North, Range 10 West, San Juan County, New Mexico.

5 Q. Now, I hand you what has been marked as Exhibit
6 Number Two and ask you to please explain that exhibit?

7 A. Exhibit Two is a schematic diagram or a diagrammatic
8 sketch required by Four-A of the application for multiple
9 completion.

10 Q. Would you explain this exhibit?

11 A. This is, again, a diagrammatic sketch of the down
12 hole assemblies, tubing description, packers, orientation
13 casing programs, cementing programs, perforated intervals and
14 treating programs.

15 Q. There are two attachments to this exhibit, marked
16 Attachment One and Attachment Two, what do the attachments
17 show?

18 A. Those are detailed descriptions of the various
19 treatments performed and the production strings run into the
20 Primo 1-A.

21 Q. Is the Primo 1-A Well producing from one of the
22 zones at the present time?

23 A. We have been authorized by the Commission to
24 produce one of the three zones, which we have chosen to
25 produce the Chacra and it has been producing for some ten days

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1 or two weeks now.

2 Q Have you experienced any difficulties in connection
3 with that?

4 A No, none.

5 Q Would you refer to what has been marked as Exhibit
6 Three and explain what this exhibit is?

7 A This is a packer leakage test required by the
8 New Mexico Oil Conservation Commission, confirming the
9 absence of any communication between any of the producing
10 zones.

11 Q You have previously testified before the Commission,
12 have you not?

13 A Yes.

14 Q As a petroleum engineer?

15 A Yes.

16 Q And your qualifications have been accepted?

17 A Yes.

18 Q In your opinion, is this packer leakage test a
19 satisfactory test, which it does indicate that there has been
20 no communication?

21 A This is true. All pressures confirm the absence
22 of any communication, all packers are holding.

23 Q Is the ownership common between the three reservoirs
24 or the three zones?

25 A Mesa Petroleum owns a one hundred percent working

1 interest in the Pictured Cliffs and Chacra zones and eighty-
2 seven and a half percent in the Mesaverde. W. P. Carr owns
3 twelve-and-a-half percent of the balance of the Mesaverde
4 reservoir.

5 Q Did Mr. Carr submit his waiver to this application?

6 A Yes.

7 Q In your opinion, Mr. Farrell, will the proposed
8 triple completion recover additional hydrocarbons that would
9 otherwise be left unrecovered?

10 A Yes, sir.

11 Q In your opinion, will the completion result in the
12 unnecessary drilling of additional wells?

13 A Definitely. Obviously reserves could be recovered
14 by additional drilling but the economics are much more
15 desirable in this particular manner.

16 Q Based on your experience with multiple completions,
17 do you have an opinion as to whether or not it will adequately
18 protect the correlative rights of all parties owning an interest
19 in these zones?

20 A By all indications and by following the rules of
21 the Commission by annual testing and the submittal of the
22 packer leakage test, it should prevent any undue damage to
23 correlative rights.

24 Q What purchaser is taking the gas?

25 A Southern Union.

1 Q The well connections are there and they are ready
2 to take the production from the other two zones?

3 A Yes, as soon as we could receive permission from
4 the Commission.

5 MR. DENT: Mr. Examiner, at this time I would like
6 to offer Mesa's Exhibits One, Two and Three and that is all
7 the questions I have.

8 MR. NUTTER: Mesa's Exhibits One through Three
9 will be admitted into evidence.

10 (THEREUPON, Mesa's Exhibits One through
11 Three were admitted into evidence.)
12

13 CROSS EXAMINATION

14 BY MR. NUTTER:

15 Q Mr. Farrell, now referring to your Exhibit Number
16 Two, this tubing string indicated by the number six here, is
17 two-and-one-sixteenths inch tubing and that goes to the
18 Chacra zone, is that correct?

19 A Yes, sir.

20 Q And the tubing string indicated number three, is also
21 two-and-a-sixteenth and it is the tubing string for the
22 Mesaverde, right?

23 A Yes, I believe we are identifying that as Well 13,
24 right, those included within that, yes, sir.

25 Q It's a mixed string, but principally it is a two-and-

1 a-sixteenth?

2 A. Right.

3 Q And then the Pictured Cliffs would come up the
4 annulus?

5 A. Yes, sir.

6 Q Will there be any problem with the Pictured Cliffs
7 loading up with liquid in this well?

8 A. During the completion phases we have seen no
9 indication of liquid problems. We were fortunate to have
10 also a, what I consider, maybe above average four point on the
11 zone and it should be the velocity which quite adequately
12 removes any liquids should they develop, obviously particularly
13 in the early years.

14 Q It is a common practice up there in some of those
15 Pictured Cliff wells to run a one-inch bleeder string and
16 you do have room in this casing in which you could run the
17 one-inch bleeder if you thought it was necessary, don't you?

18 A. I think that with some adjustments at some later
19 date on maybe the Chacra tubing string by minimizing or
20 running a smaller string in we could also accomplish a one-
21 inch siphon string, so to speak, for the PC at some point,
22 should this ever become a problem. Our seven-inch casing
23 should afford us that luxury, yes, sir.

24 Q You have a seven-inch casing through the Pictured
25 Cliffs then?

1 A. Yes, sir.

2 MR. NUTTER: The record will note that we have
3 received a letter from Mr. Carr in which he has no objection
4 to the triple completion requested.

5 Are there any further questions of Mr. Farrell?
6 He maybe excused.

7 (THEREUPON, the witness was excused.)

8 MR. NUTTER: Do you have anything further, Mr. Dent?

9 MR. DENT: No, sir.

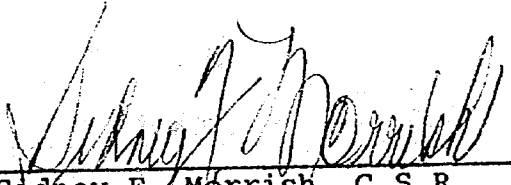
10 MR. NUTTER: Does anyone have anything they wish
11 to offer in Case 5618? We will take the case under advise-
12 ment.

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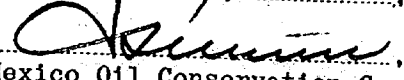
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REPORTER'S CERTIFICATE

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


Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5-18,
heard by me on 1/20, 1976.

, Examiner
New Mexico Oil Conservation Commission

sid morrish reporting service
General Court Reporting Service
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Phone (505) 982-9212

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:

CASE NO. 5618

Order No. R- 5157

APPLICATION OF MESA PETROLEUM CO.
FOR A TRIPLE COMPLETION, SAN JUAN
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
January 20, 1976, at Santa Fe, New Mexico, before
Examiner Daniel S. Nutter.

NOW, on this day of January, 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, Mesa Petroleum Co.,
seeks authority to complete its Primo "A"
Well No. 1, located in Unit D of Section 6, Township
31 North, Range 10 West, NMPM, San Juan County, New

Mexico, as a triple completion (conventional) to produce gas
(combination) (tubingless)

from the Pictured Cliffs Pool through the casing-tubing
annulus, the Chacra Pool through 2 3/8 inch tubing and the Mesaverde
Pool through 2 3/8 inch tubing, and from an undersaturated

Chacra gas pool through 2 1/16 inch tubing,
with separation of the zone achieved by means of gaskets
set at approximately 2764 feet and 4050 feet.

(3) That the mechanics of the proposed triple 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 Co.,
is hereby authorized to complete its Primo Well "A"
Well No. 1, located in Unit D of Section 6, Township

31 ~~SOUTH~~ North' Range 10 ~~EAST~~ West' NMPM, San Juan County, New

Mexico, as a triple completion ~~(conventional)~~ ~~(combination)~~ ~~(tubingless)~~ to produce gas

from the Blanco Pictured Cliffs Pool through the casing-tubing annulus ~~and the Chacra Pool through 2 3/8-inch tubing and the Mesaverde~~

Pool through ~~2 3/8-inch tubing~~ 2 1/16 inch tubing, ~~and from an undesignated~~
Chacra gas pool through 2 1/16 inch tubing

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

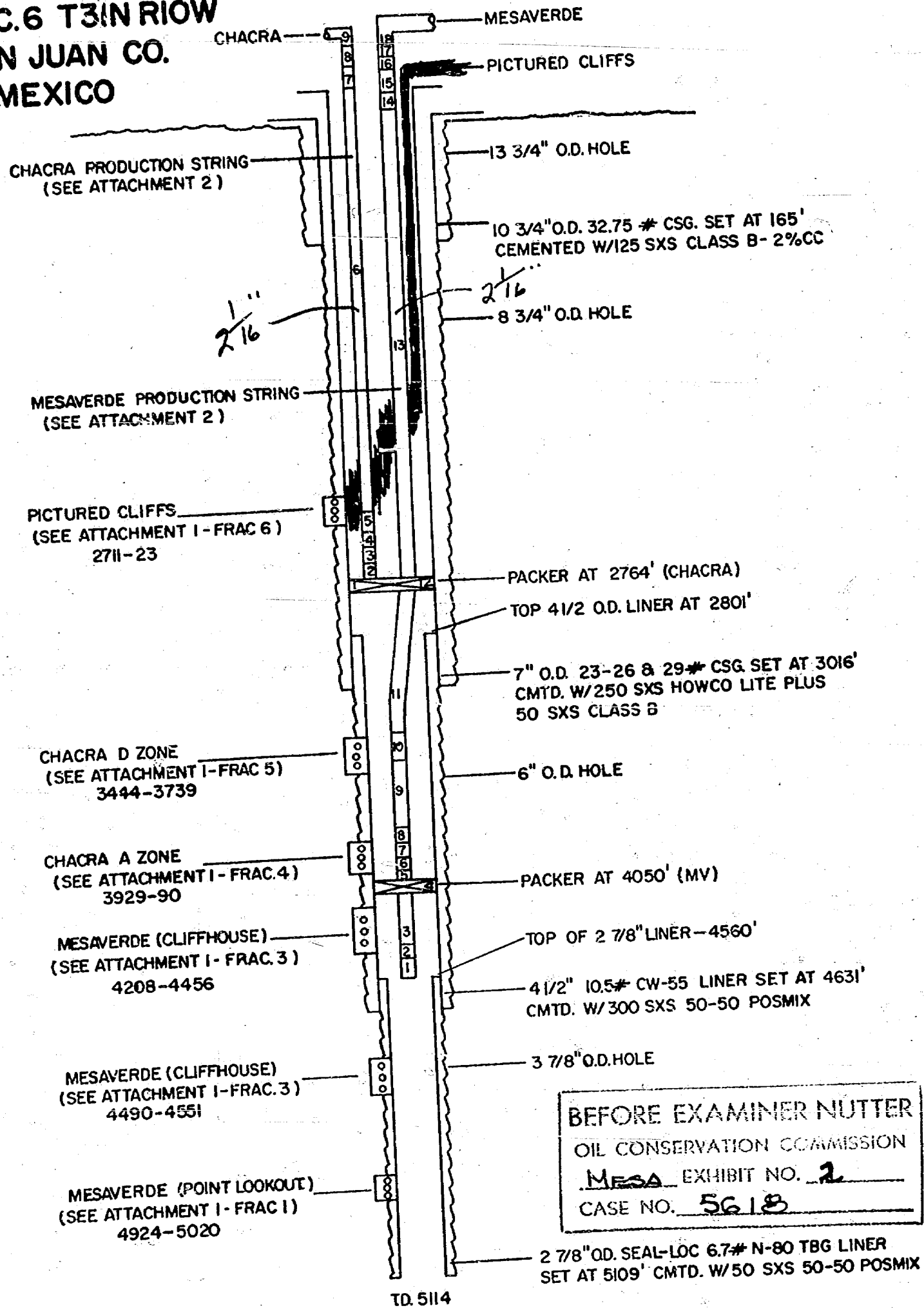
PROVIDED FURTHER, that the applicant shall take packer-leakage
tests upon completion and annually thereafter, ~~during the Annual~~
~~Gas Oil Ratio Test Period for the~~ Pool.
~~Deliverability~~

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

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

ISA PETROLEUM CO. TRIPLE COMPLETION DIAGRAM

PRIMO 1A
1190' FROM N&WL
SEC. 6 T3N R10W
SAN JUAN CO.
N. MEXICO



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
MESA EXHIBIT NO. 2
CASE NO. 5618

ATTACHMENT #1

Primo #1A
Sec. 6, T31N-R10W
San Juan Co., N.M.

FRAC #1: Mesaverde (Point Lookout) 4924' - 5020'

Frac'd with 80,000 gal in 4 stages:
5,000 gal pad, 5,000 100 mesh 3#/gal & 10,000 20/40 sd 2#/gal.
Max pressure 450 psi. 30 BPM rate - Avg 350 psi.
Dropped total of 52 balls.

FRAC #2: Mesaverde (Cliffhouse) 4490' - 4551'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w2#sd/gal.
1st Stage: Avg. 30 BPM, 500 psi.
2nd Stage: Avg. 31 BPM, 800 psi.
3rd Stage: Avg. 30 BPM, 1100 psi.
Dropped 10 balls after 1st & 2nd stages. Flushed with 5,670 gals at
31 BPM, 1100 psi - ISIP 350 psi, 4" - 0.

FRAC #3: Mesaverde (Cliffhouse) 4208' - 4456'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w/2#sd/gal.
1st Stage: Avg. 26 BPM, 600 psi.
2nd Stage: Avg. 24 BPM, 900 psi.
3rd Stage: Avg. 17 BPM, 1450 psi.
Dropped 9 balls after 1st & 2nd stages. Pumped 250 gals HCL (15%) acid
between 2nd & 3rd stages. Flushed with 5,586 gals water at 15 BPM, 1500 psi.
ISIP - 500 psi, 5" - 300 psi, 10" - 250 psi.

FRAC #4: Chacra A Zone 3929' - 3990'

Frac'd with 30,000 gals 30# gel water in 2 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w/2#sd/gal.
1st Stage: Avg of 25 BPM & 1100 psi. Dropped 8 balls.
2nd Stage: Avg of 25 BPM & 1200 psi.
Flushed with 5,334 gals water at 25 BPM & 1200 psi.
ISIP - 700 psi, 5" - 400 psi, 10" - 300 psi, 15" - 300 psi, final SIP 300 psi.

FRAC #5: Chacra D Zone 3444' - 3739'

Frac'd with 60,000 gals 30# gel water in 2 stages:
7,500 gal pad, 7,500 gal 100 mesh w/3#sd/gal & 15,000 gal 20/40 w/2#sd/gal.
1st Stage: Avg. 30 BPM, 600 psi.
2nd Stage: Avg. 29 BPM, 1200 psi.
Flushed with 5,124 gals water at 29 BPM & 1200 psi. ISIP - 700 psi,
5" - 400 psi, 10" - 100 psi.

FRAC #6: Pictured Cliffs 2711' - 2723'

Frac'd with 20,000 gals 30# gel water in 1 stage:
5,000 gal pad, 5,000 gal 100 mesh w/3#sd/gal & 10,000 gal 20/40 w/2#sd/gal.
Avg. 25 BPM, 350 psi. Flushed with 4,368 gals water at 25 BPM & 350 psi.
ISDP - 150 psi, 2" - 0.

ATTACHMENT #2

Primo #1A
 Sec. 6, T31N-R10W
 San Juan Co., N.M.

CHACRA PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(9)	1.00'	1 J x 8rd chg over
(8)	32.93'	2-1/16" OD IJ Tbg
(7)	3.92'	2-1/16" OD IJ Tbg Sub
(6)	2686.96'	2-1/16" OD IJ Tbg
(5)	2.45'	1.50" ID Baker Model L Sliding Sleeve set @ 2743'
(4)	25.00'	2-1/16" OD IJ Tbg
(3)	0.80'	1.43" ID Baker Model F Non-Ported Seating Nipple set @ 2768'
(2)	1.25'	2.28" Baker Model S Snap Latch Seal Nipple w/1.625" ID set @ 2769'
(1)	-----	Baker Model J Snap Set Dual Packer 1.937" ID - Long String - 1.625" ID - Short String set @ 2764' KB Set @ 2769' KB
	2754.31'	

MESAVERDE PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(18)	1.00'	Chg overs and donut
(17)	32.28'	1 jt 2-1/16" IJ Tbg
(16)	10.03'	1 2-1/16" Sub
(15)	9.95'	1 2-1/16" Sub
(14)	3.80'	1 2-1/16" Sub
(13)	2690.07'	48 jts 2-1/16" IJ Tbg
(12)	10.98'	1 Model J 7" Snap Set Baker Packer set @ 2764' KB
(11)	658.02'	20 jts 2-1/16" IJ Tbg
(10)	60.90'	3 Blast jts
(9)	236.93'	8 jts 2-1/16" IJ Tbg
(8)	10.10'	1 Blast jt
(7)	9.93'	1 2-1/16" Sub
(6)	296.45'	9 jts 2-1/16" IJ Tbg
(5)	2.33'	1 On & Off Tool
(4)	3.75'	Baker Model A-1 Loc Set Retrievable Csg Packer
(3)	461.29'	14 jts 2-1/16" tbg
(2)	.80'	1 F Nipple ID of 1.43"
(1)	32.27'	1 jt 2-1/16" Tbg.
	4530.88'	Set @ 4548' KB, Packer set @ 4050'.

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

JAN 5 1976

Operator Mesa Petroleum Co Lease Primo A.M.A. PROD. Well No. #1-A
Location of Well: Unit _____ Sec. _____ Twp. _____ Rge. _____ County San Juan

	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Tbg. or Csg.)
Upper Completion	<u>PC</u> <u>CH</u>	<u>Gas</u>	<u>Flow</u>	<u>Csg.</u> <u>Tbg.</u>
Lower Completion	<u>M.V.</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg.</u>

PRE-FLOW SHUT-IN PRESSURE DATA				
Upper Compl	Hour, date <u>10:00 AM</u> Shut-in <u>12-9-75</u>	Length of time shut-in <u>7 days</u>	SI press. <u>PC 792</u> psig <u>CH 758</u>	Stabilized? (Yes or No) <u>yes</u>
Lower Compl	Hour, date <u>10:00 AM</u> Shut-in <u>12-9-75</u>	Length of time shut-in <u>7 days</u>	SI press. <u>M.V. 761</u> psig <u>M.V. 761</u>	Stabilized? (Yes or No) <u>yes</u>

FLOW TEST NO. 1				
Commenced at (hour, date)* <u>11:00 AM</u> <u>12-16-75</u> Zone producing (Upper or Lower): <u>CH</u>				
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone
		Upper Compl.	Lower Compl.	Temp.
<u>11:00 A.M.</u>	<u>1 Hour</u>	<u>PC 173</u> <u>CH 758</u>	<u>M.V. 226</u>	<u>44°</u> <u>55°</u>
<u>12:00 P.M.</u>	<u>1 Hour</u>	<u>PC 159</u> <u>CH 758</u>	<u>M.V. 218</u>	<u>46°</u> <u>55°</u>
<u>1:00 P.M.</u>	<u>1 Hour</u>	<u>PC 156</u> <u>CH 758</u>	<u>M.V. 217</u>	<u>48°</u> <u>61°</u>
<u>4:30 P.M.</u>	<u>3 1/2 HOURS</u>	<u>PC 770</u> <u>CH 279</u>	<u>M.V. 746</u>	<u>61°</u>
<u>5:30 P.M.</u>	<u>1 Hour</u>	<u>PC 786</u> <u>CH 257</u>	<u>M.V. 746</u>	<u>62°</u>
<u>6:30 P.M.</u>	<u>1 Hour</u>	<u>PC 786</u> <u>CH 236</u>	<u>M.V. 746</u>	<u>62°</u>

Production rate during test
Oil: _____ BOPD based on _____ Bbls. in _____ Hrs. _____ Grav. _____ GOR _____
Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA				
Upper Compl	Hour, date <u>1:00 P.M.</u> <u>PC</u> Shut-in <u>6:30 P.M.</u> <u>CH</u>	Length of time shut-in <u>7 days</u>	SI press. <u>PC 878</u> psig <u>CH 772</u>	Stabilized? (Yes or No) <u>yes</u>
Lower Compl	Hour, date <u>1:00 P.M.</u> <u>MV</u> Shut-in <u>1:00 P.M.</u> <u>MV</u>	Length of time shut-in <u>7 days</u>	SI press. <u>MV 761</u> psig <u>MV 761</u>	Stabilized? (Yes or No) <u>yes</u>

FLOW TEST NO. 2				
Commenced at (hour, date)** <u>10:30 AM</u> <u>12-23-75</u> Zone producing (Upper or Lower): <u>CH</u>				
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone
		Upper Compl.	Lower Compl.	Temp.
<u>11:30 AM</u>	<u>1 Hour</u>	<u>CH 286</u> <u>PC 818</u>	<u>M.V. 761</u>	<u>60°</u>
<u>12:30 P.M.</u>	<u>1 Hour</u>	<u>CH 262</u> <u>PC 718</u>	<u>M.V. 761</u>	<u>60°</u>
<u>1:30 P.M.</u>	<u>1 Hour</u>	<u>CH 246</u> <u>PC 318</u>	<u>M.V. 761</u>	<u>60°</u>

Production rate during test
Oil: _____ BOPD based on _____ Bbls. in _____ Hrs. _____ Grav. _____ GOR _____
Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

REMARKS: _____

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: _____ 19 _____
New Mexico Oil Conservation Commission

By M. E. Madwell

Title _____

Operator Mesa Petroleum Co.

By Bill Toter

Title Switcher

Date 12/23/75

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION

Dockets Nos. 5-76 and 6-76 are tentatively set for hearing on February 4 and February 18, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - JANUARY 20, 1976

9 A.M. - OIL CONSERVATION COMMISSION 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 5614: Application of Amerada Hess Corporation for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval to commingle Basin-Dakota gas production and oil produced from an undesignated Gallup pool in the wellbore of its Apache "A" Well No. 7, located in Unit J of Section 26, Township 25 North, Range 5 West, Rio Arriba County, New Mexico.
- CASE 5615: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Morely EW Well No. 1, located 660 feet from the South and East lines of Section 27, Township 17 South, Range 25 East, Eddy County, New Mexico, the S/2 of said Section 27 to be dedicated to the well.
- CASE 5616: Application of Atlantic Richfield Company for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to simultaneously dedicate a previously approved 320-acre non-standard gas proration unit comprising the W/2 of Section 29, Township 24 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to its W. H. Harrison "D" WN Com Well No. 1, located in Unit L of said Section 29 and its W. H. Harrison "A" WN Well No. 2, at an unorthodox location 660 feet from the North and West lines of said Section 29.
- CASE 5617: Application of Robinson Resource Development Company, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 1530 feet from the North line and 330 feet from the East line of Section 18, Township 21 South, Range 25 East, Eddy County, New Mexico, the N/2 of said Section 18 to be dedicated to the well.
- CASE 5618: Application of Mesa Petroleum Co. for a triple completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (conventional) of its Primo Well No. 1A, located in Unit D of Section 6, Township 31 North, Range 10 West, San Juan County, New Mexico, to produce gas from the Pictured Cliffs, Chacra and Mesaverde formations.
- CASE 5117: (Reopened)
- In the matter of Case 5117 being reopened pursuant to the provisions of Order No. R-4691, which order established temporary special pool rules for the North Dagger Draw-Upper Pennsylvanian Pool, Eddy County, New Mexico. All interested parties may appear and show cause why said pool should not be developed on less than 320-acre spacing and why the special depth bracket allowable should remain in effect.
- CASE 5619: Application of Agua, Inc. for an extension of time, Order No. R-4495-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a 90-day extension of the February 7, 1976, deadline to cease the disposal of produced salt water through perforations from 4,230 feet to 4,320 feet in its SWD Well No. C-2, located in Unit C of Section 2, Township 22 South, Range 37 East, Lea County, New Mexico.
- CASE 5603: (Continued from January 7, 1976 Examiner Hearing)
- Application of Burleson and Huff for compulsory pooling, a non-standard gas proration unit, and an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Jalmat Gas Pool underlying the NW/4 of Section 35, Township 25 South, Range 37 East, Lea County, New Mexico, to form a non-standard 160-acre proration unit; applicant further seeks the pooling of all mineral interests in the Langlie-Mattix Pool underlying each of the following tracts in said Section 35 to form three standard 40-acre proration units: the NE/4 NW/4, to be dedicated to applicant's Dabbs Well No. 1, located 330 feet from the North line and 2310 feet from the West line of said Section 35; the SE/4 NW/4, to be dedicated to applicant's Dabbs Well No. 3, located 1980 feet from the North and West lines of said Section 35; and the SW/4 NW/4, to be dedicated to a well to be drilled on said tract at a standard Langlie-Mattix Pool location. In the event re-entry into either the Dabbs Well No. 1 or No. 3 is unsuccessful, applicant proposes to drill a replacement well at a standard location on its tract. Applicant further proposes to dedicate the 160-acre Jalmat proration unit to one of the three above-described wells, and in the event it should be the Dabbs Well No. 1, applicant seeks approval for the unorthodox Jalmat location for said well. Also to be considered will be the cost of re-entering, drilling, and completing said wells and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered will be the designation of the applicant as operator of the wells and a charge for the risk involved in re-entering, drilling, and completing said well.
- CASE 5604: (Continued from January 7, 1976 Examiner Hearing)
- Application of Burleson & Huff for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Querecho Plains-Queen Pool by the injection of water into the Queen formation through its Anadarko Federal Well No. 6 to be drilled at an unorthodox location in the approximate center of the SW/4 of Section 27, Township 18 South, Range 32 East, Lea County, New Mexico. Applicant further seeks an administrative procedure for approval of additional wells at standard and non-standard locations within the project area.

Docket No. 4-76

Dockets Nos. 5-76 and 6-76 are tentatively set for hearing on February 4 and February 18, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - WEDNESDAY - JANUARY 21, 1976

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

CASE 5592: (De Novo)

Application of Agua, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection into the San Andres formation through the open-hole interval from approximately 4000 to 5000 feet in its Blinbry-Drinkard SWD System Well No. A-22 located 817 feet from the North line and 965 feet from the East line of Section 22, Township 22 South, Range 37 East, Lea County, New Mexico.

Upon application of Agua, Inc., this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 5571: (De Novo)

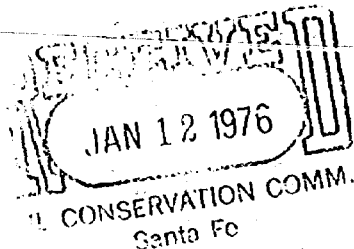
Application of Robert G. Cox for amendment of Order No. R-4561, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks amendment of Order No. R-4561, which order permitted the directional drilling of applicant's Federal "EA" Well No. 1, located 330 feet from the North and West lines of Section 12, Township 18 South, Range 27 East, Empire-Abo Pool, Eddy County, New Mexico, in such a manner as to be bottomed within 100 feet of the surface location. Applicant seeks the amendment of said order to permit bottoming of the subject well approximately 58 feet from the North line and 8 feet from the West line of said Section 12 and to permit verification of said downhole location by single-shot directional surveys made concurrently with the drilling of said well.

Upon application of Robert G. Cox, this case will be heard De Novo pursuant to the provisions of Rule 1220.

NOTE: Case No. 5592, above, will be dismissed at the request of applicant.

WILLIAM PLACK CARR
6700 FOREST LANE
DALLAS, TEXAS 75230

1/8/75



New Mexico Oil Cons Comm

Gentlemen:

We have no objection
to the triple completion requested
by Mesa Pet for their Pinedo 1A
well in Sec 6-31-10 San Juan
Co N Mex

Yours very truly
WP Carr

James L. Farrell, operations manager
central and permian divisions

Case 5618



December 23, 1975

New Mexico Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

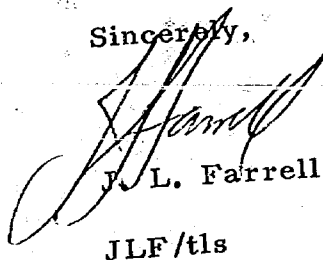
Gentlemen:

Re: MESA PETROLEUM CO. Primo 1A, San Juan County,
New Mexico

I have been informed this date by Mr. Carl Ulvog with the New Mexico State Oil Conservation Commission, Santa Fe, that the application to triple complete the captioned well will require a hearing. Mr. Ulvog also related that the earliest possible hearing date would be January 21, 1976.

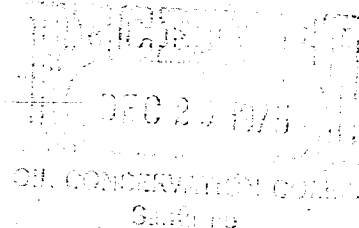
Please accept this letter as Mesa's acceptance to being placed on the January 21, 1976 docket.

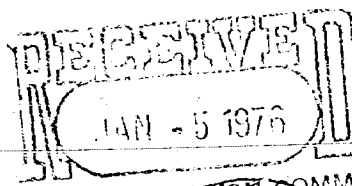
Sincerely,


J. L. Farrell
JLF/tls

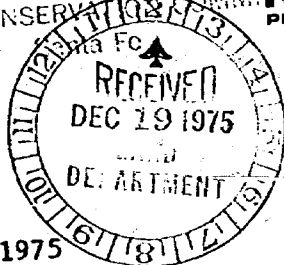
DOCKET MAILED

Date 1/12/76





OIL CONSERVATION COMM.



December 16, 1975



Aztec Oil & Gas Corp.
2000 1st National Bank Building
Dallas, Texas 75202

Case 5618

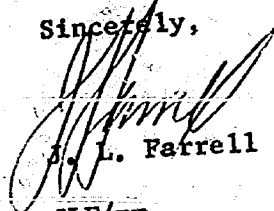
Re: Waiver of Application for Triple Completion
Mesa Petroleum Co.
Primo #1A
NW/NW of Section 6, T31N-R10W
San Juan County, New Mexico

Gentlemen:

Mesa is forwarding a waiver of a triple completion application on the subject well. If approval is obtained the well will be a triple completion in the Pictured Cliffs, Mesaverde and Chacra formations. It is requested that you approve and forward to the New Mexico Oil Conservation Commission the attached waiver form. For your convenience, an addressed envelope is enclosed.

Your prompt attention and consideration are appreciated.

Sincerely,


J. L. Farrell

JLF/mm

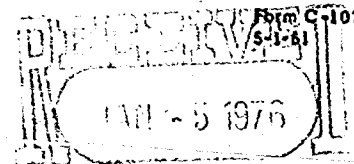
Enclosure

CC: El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

Amoco Production Co.
P. O. Box 591
Tulsa, Oklahoma 74102

W. P. Carr
% Carr & Irwin
5738 N. Central Expressway
Room 110
Dallas, Texas 75206

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



Operator Mesa Petroleum Co.		County San Juan		Date 12/16/75
Address P. O. Box 2009 Amarillo, Texas 79105		Lease Primo		Well No. 1A
Location of Well D	Unit D	Section 6	Township 31N	Range 10W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Pictured Cliffs	Chacra	Mesaverde
b. Top and Bottom of Pay Section (Perforations)	2711' - 2723'	3444' - 3990'	4208' - 5020'
c. Type of production (Oil or Gas)	Gas	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. 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.* |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. 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 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Amoco Production Co.	Box 591	Tulsa, Oklahoma
W. P. Carr	% Carr & Irwin 5738 N. Central Expressway,	Room 110 Dallas, Tx
El Paso Natural Gas Co.	Box 1492	El Paso, Texas
Aztec Oil Co.	2000 1st Natl. Bank Bldg.	Dallas, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 12/16/75.

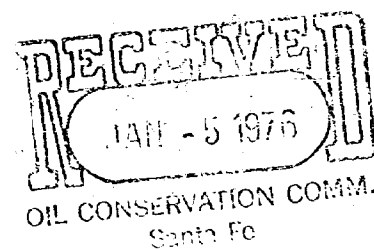
CERTIFICATE: I, the undersigned, state that I am the Operations Manager of the Mesa Petroleum Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

*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-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 perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

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



Re: Application for Triple Completion
Mesa Petroleum Co.
Primo #1A
NW/NW of Section 6, T31N-R10W
San Juan County, New Mexico

Gentlemen:

The undersigned being an authorized representative of the offset operator has been duly informed by Mesa Petroleum Co. of their intent to triple complete the Primo #1A well in Pictured Cliffs, Chacra and Mesaverde formations of the Blanco Field. The triple completed gas well is located in Unit D, Section 6, T31N-R10W, San Juan County, New Mexico and hereby waives all objections to triple completing said well as a Pictured Cliffs-Chacra-Mesaverde gas producer.

El Paso Natural Gas Co.
Name of Company

Carl E. Matthews
Representative of Company

CC: Aztec Oil & Gas Corp.
2000 1st National Bank Bldg.
Dallas, Texas 75202

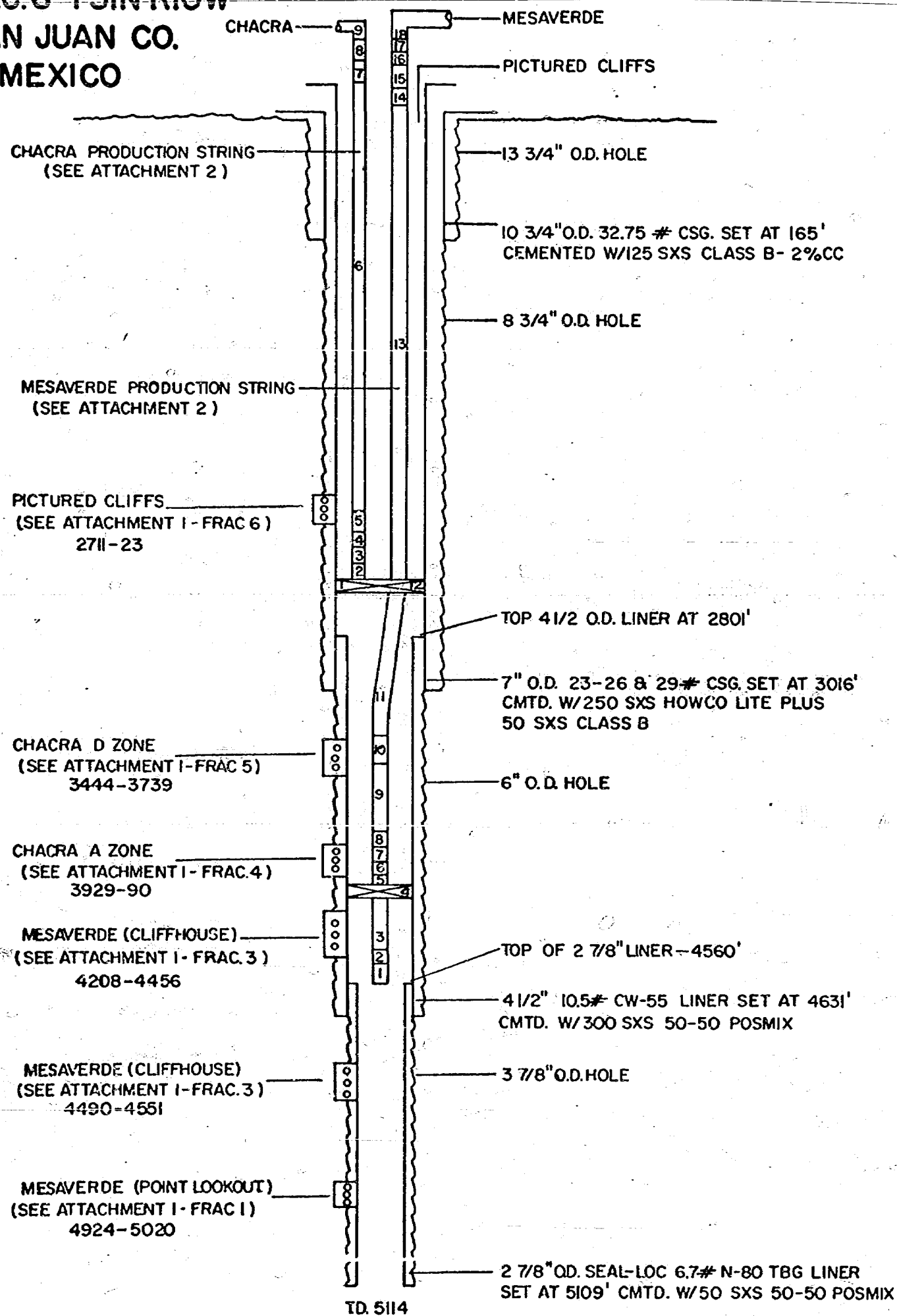
El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

Amoco Production Co.
P. O. Box 591
Tulsa, Oklahoma 74102

W. P. Carr
% Carr & Irwin
5738 N. Central Expressway
Room 110
Dallas, Texas 75206

MESA PETROLEUM CO. TRIPLE COMPLETION DIAGRAM

PRIMO 1A
1190' FROM N8WL
SEC. 6 T3IN RIOW
SAN JUAN CO.
N. MEXICO



ATTACHMENT #2

Primo #1A
 Sec. 6, T31N-R10W
 San Juan Co., N.M.

CHACRA PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(9)	1.00'	1 J x 8rd chg over
(8)	32.93'	2-1/16" OD IJ Tbg
(7)	3.92'	2-1/16" OD IJ Tbg Sub
(6)	2686.96'	2-1/16" OD IJ Tbg
(5)	2.45'	1.50" ID Baker Model L Sliding Sleeve set @ 2743'
(4)	25.00'	2-1/16" OD IJ Tbg
(3)	0.80'	1.43" ID Baker Model F Non-Ported Seating Nipple set @ 2768'
(2)	1.25'	2.28" Baker Model S Snap Latch Seal Nipple w/1.625" ID set @ 2769'
(1)	-----	Baker Model J Snap Set Dual Packer 1.937" ID - Long String -
	2754.31'	1.625" ID - Short String set @ 2764' KB Set @ 2769' KB

MESAVERDE PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(18)	1.00'	Chg overs and donut
(17)	32.28'	1 jt 2-1/16" IJ Tbg
(16)	10.03'	1 2-1/16" Sub
(15)	9.95'	1 2-1/16" Sub
(14)	3.80'	1 2-1/16" Sub
(13)	2690.07'	48 jts 2-1/16" IJ Tbg
(12)	10.98'	1 Model J 7" Snap Set Baker Packer set @ 2764' KB
(11)	658.02'	20 jts 2-1/16" IJ Tbg
(10)	60.90'	3 Blast jts
(9)	236.93'	8 jts 2-1/16" IJ Tbg
(8)	10.10'	1 Blast jt
(7)	9.93'	1 2-1/16" Sub
(6)	296.45'	9 jts 2-1/16" IJ Tbg
(5)	2.33'	1 On & Off Tool
(4)	3.75'	Baker Model A-1 Loc Set Retrievable Csg Packer
(3)	461.29'	14 jts 2-1/16" tbg
(2)	.80'	1 F Nipple ID of 1.43"
(1)	32.27'	1 jt 2-1/16" Tbg.
	4530.88'	Set @ 4548' KB, Packer set @ 4050'.

ATTACHMENT #1

Primo #1A
Sec. 6, T31N-R10W
San Juan Co., N.M.

FRAC #1: Mesaverde (Point Lookout) 4924' - 5020'

Frac'd with 80,000 gal in 4 stages:
5,000 gal pad, 5,000 100 mesh 3#/gal & 10,000 20/40 sd 2#/gal.
Max pressure 450 psi. 30 BPM rate - Avg 350 psi.
Dropped total of 52 balls.

FRAC #2: Mesaverde (Cliffhouse) 4490' - 4551'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w2#sd/gal.
1st Stage: Avg. 30 BPM, 500 psi.
2nd Stage: Avg. 31 BPM, 800 psi.
3rd Stage: Avg. 30 BPM, 1100 psi.
Dropped 10 balls after 1st & 2nd stages. Flushed with 5,670 gals at
31 BPM, 1100 psi - ISIP 350 psi, 4" - 0.

FRAC #3: Mesaverde (Cliffhouse) 4208' - 4456'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w/2#sd/gal.
1st Stage: Avg. 26 BPM, 600 psi.
2nd Stage: Avg. 24 BPM, 900 psi.
3rd Stage: Avg. 17 BPM, 1450 psi.
Dropped 9 balls after 1st & 2nd stages. Pumped 250 gals HCL (15%) acid
between 2nd & 3rd stages. Flushed with 5,586 gals water at 15 BPM, 1500 psi.
ISIP - 500 psi, 5" - 300 psi, 10" - 250 psi.

FRAC #4: Chacra A Zone 3929' - 3990'

Frac'd with 30,000 gals 30# gel water in 2 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#/gal & 7,500 gal 20/40 w/2#/gal.
1st Stage: Avg of 25 BPM & 1100 psi. Dropped 8 balls.
2nd Stage: Avg of 25 BPM & 1200 psi.
Flushed with 5,334 gals water at 25 BPM & 1200 psi.
ISIP - 700 psi, 5" - 400 psi, 10" - 300 psi, 15" - 300 psi, final SIP 300 psi.

FRAC #5: Chacra D Zone 3444' - 3739'

Frac'd with 60,000 gals 30# gel water in 2 stages:
7,500 gal pad, 7,500 gal 100 mesh w/3#/gal & 15,000 gal 20/40 w/2#/gal.
1st Stage: Avg. 30 BPM, 600 psi.
2nd Stage: Avg. 29 BPM, 1200 psi.
Flushed with 5,124 gals water at 29 BPM & 1200 psi. ISIP - 700 psi,
5" - 400 psi, 10" - 100 psi.

FRAC #6: Pictured Cliffs 2711' - 2723'

Frac'd with 20,000 gals 30# gel water in 1 stage:
5,000 gal pad, 5,000 gal 100 mesh w/3#/gal & 10,000 gal 20/40 w/2#/gal.
Avg. 25 BPM, 350 psi. Flushed with 4,368 gals water at 25 BPM & 350 psi.
ISDP - 150 psi, 2" - 0.

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

Form C-107
5-1-61

Operator Mesa Petroleum Co.		County San Juan		Date DEC 22 12/16/75
Address P. O. Box 2009 Amarillo, Texas 79105		Lease Primo		Well No. 1A
Location of Well D	Unit D	Section 6	Township 31N	Range 10W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Pictured Cliffs	Chacra	Mesaverde
b. Top and Bottom of Pay Section (Perforations)	2711' - 2723'	3444' - 3990'	4208' - 5020'
c. Type of production (Oil or Gas)	Gas	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. 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.* |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. 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 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Amoco Production Co.	Box 591	Tulsa, Oklahoma
W. P. Carr	% Carr & Irwin 5738 N. Central Expressway,	Room 110 Dallas, Tx
El Paso Natural Gas Co.	Box 1492	El Paso, Texas
Aztec Oil Co.	2000 1st Natl. Bank Bldg.	Dallas, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 12/16/75.

CERTIFICATE: I, the undersigned, state that I am the Operations Manager of the Mesa Petroleum 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.

2 USGS
XC: 3 State (Santa Fe)
2 State (Aztec) 1 each Off-set operator

*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-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.

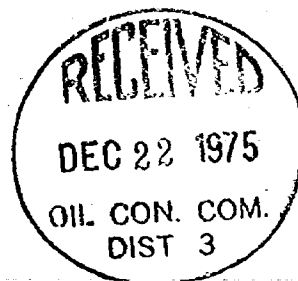
Set for hearing
Jan 21

letter will follow.

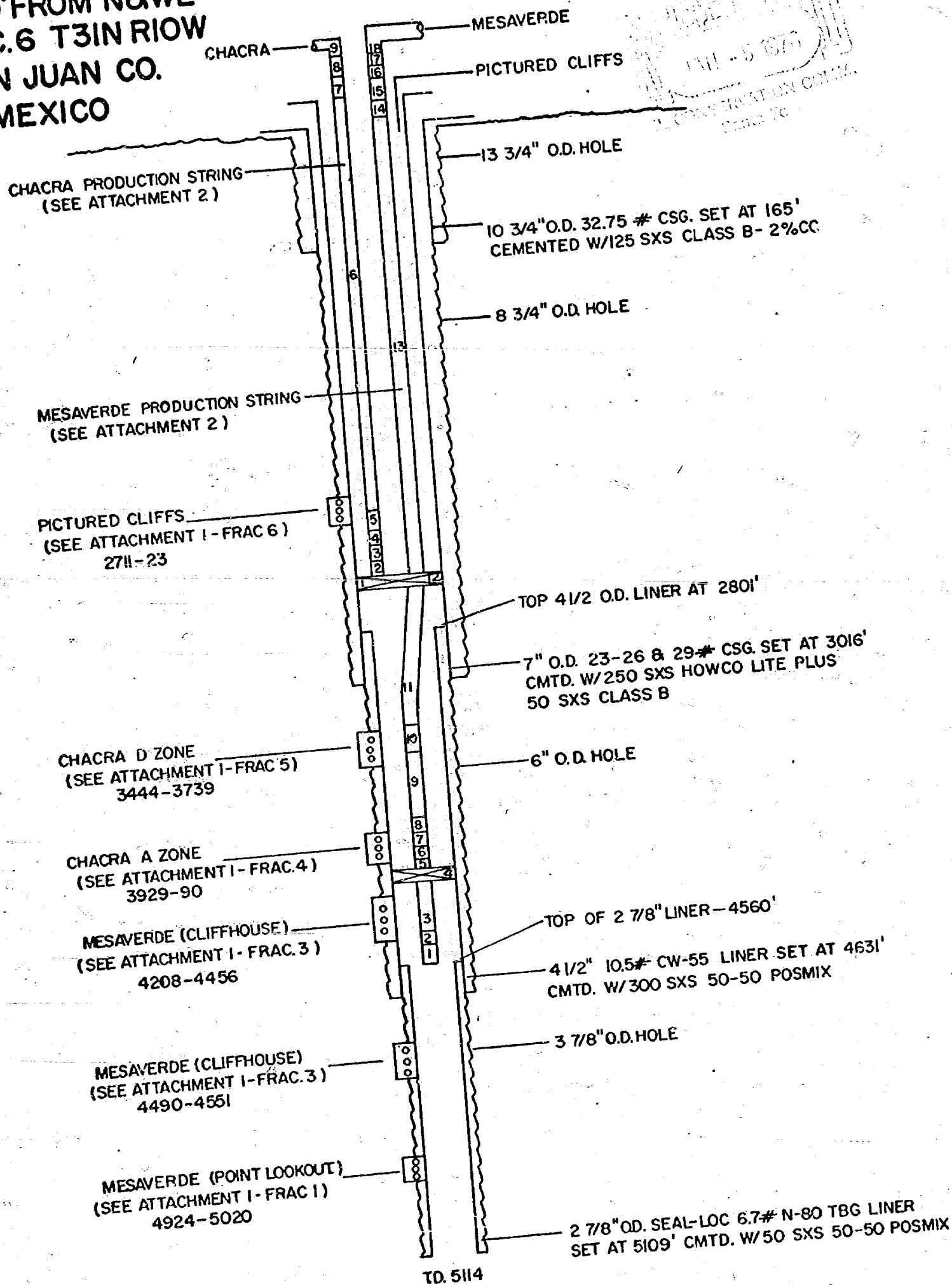
C. H.

Scheduled for hearing
Jan 21, 1976
Case 5618

MESA PETROLEUM CO. TRIPLE COMPLETION DIAGRAM

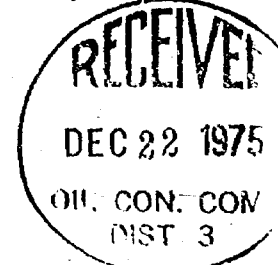


PRIMO 1A
1190' FROM N8WL
SEC. 6 T3IN RIOW
SAN JUAN CO.
N. MEXICO



ATTACHMENT #1

Primo #1A
Sec. 6, T31N-R10W
San Juan Co., N.M.



FRAC #1: Mesaverde (Point Lookout) 4924' - 5020'

Frac'd with 80,000 gal in 4 stages:
5,000 gal pad, 5,000 100 mesh 3#/gal & 10,000 20/40 sd 2#/gal.
Max pressure 450 psi. 30 BPM rate - Avg 350 psi.
Dropped total of 52 balls.

FRAC #2: Mesaverde (Cliffhouse) 4490' - 4551'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w2#sd/gal.
1st Stage: Avg. 30 BPM, 500 psi.
2nd Stage: Avg. 31 BPM, 800 psi.
3rd Stage: Avg. 30 BPM, 1100 psi.
Dropped 10 balls after 1st & 2nd stages. Flushed with 5,670 gals at
31 BPM, 1100 psi - ISIP 350 psi, 4" - 0.

FRAC #3: Mesaverde (Cliffhouse) 4208' - 4456'

Frac'd with 45,000 gals 30# gel water in 3 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#sd/gal & 7,500 gal 20/40 w/2#sd/gal.
1st Stage: Avg. 26 BPM, 600 psi.
2nd Stage: Avg. 24 BPM, 900 psi.
3rd Stage: Avg. 17 BPM, 1450 psi.
Dropped 9 balls after 1st & 2nd stages. Pumped 250 gals HCL (15%) acid
between 2nd & 3rd stages. Flushed with 5,586 gals water at 15 BPM, 1500 psi.
ISIP - 500 psi, 5" - 300 psi, 10" - 250 psi.

FRAC #4: Chacra A Zone 3929' - 3990'

Frac'd with 30,000 gals 30# gel water in 2 stages:
3,750 gal pad, 3,750 gal 100 mesh w/3#/gal & 7,500 gal 20/40 w/2#/gal.
1st Stage: Avg of 25 BPM & 1100 psi. Dropped 8 balls.
2nd Stage: Avg of 25 BPM & 1200 psi.
Flushed with 5,334 gals water at 25 BPM & 1200 psi.
ISIP - 700 psi, 5" - 400 psi, 10" - 300 psi, 15" - 300 psi, final SIP 300 psi.

FRAC #5: Chacra D Zone 3444' - 3739'

Frac'd with 60,000 gals 30# gel water in 2 stages:
7,500 gal pad, 7,500 gal 100 mesh w/3#/gal & 15,000 gal 20/40 w/2#/gal.
1st Stage: Avg. 30 BPM, 600 psi.
2nd Stage: Avg. 29 BPM, 1200 psi.
Flushed with 5,124 gals water at 29 BPM & 1200 psi. ISIP - 700 psi,
5" - 400 psi, 10" - 100 psi.

FRAC #6: Pictured Cliffs 2711' - 2723'

Frac'd with 20,000 gals 30# gel water in 1 stage:
5,000 gal pad, 5,000 gal 100 mesh w/3#/gal & 10,000 gal 20/40 w/2#/gal.
Avg. 25 BPM, 350 psi. Flushed with 4,368 gals water at 25 BPM & 350 psi.
ISDP - 150 psi, 2" - 0.

ATTACHMENT #2

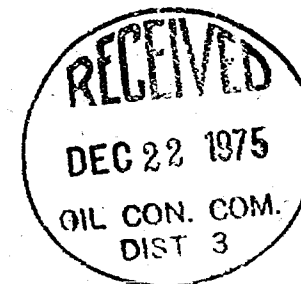
Primo #1A
Sec. 6, T31N-R10W
San Juan Co., N.M.

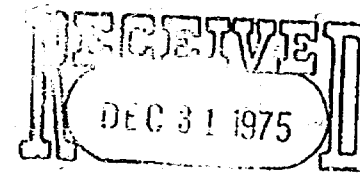
CHACRA PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(9)	1.00'	1 J x 8rd chg over
(8)	32.93'	2-1/16" OD IJ Tbg
(7)	3.92'	2-1/16" OD IJ Tbg Sub
(6)	2686.96'	2-1/16" OD IJ Tbg
(5)	2.45'	1.50" ID Baker Model L Sliding Sleeve set @ 2743'
(4)	25.00'	2-1/16" OD IJ Tbg
(3)	0.80'	1.43" ID Baker Model F Non-Ported Seating Nipple set @ 2768'
(2)	1.25'	2.28" Baker Model S Snap Latch Seal Nipple w/1.625" ID set @ 2769'
(1)	-----	Baker Model J Snap Set Dual Packer 1.937" ID - Long String - 1.625" ID - Short String set @ 2764' KB Set @ 2769' KB
	2754.31'	

MESAVERDE PRODUCTION STRING (top to bottom)

	<u>Length</u>	<u>Description</u>
(18)	1.00'	Chg overs and donut
(17)	32.28'	1 jt 2-1/16" IJ Tbg
(16)	10.03'	1 2-1/16" Sub
(15)	9.95'	1 2-1/16" Sub
(14)	3.80'	1 2-1/16" Sub
(13)	2690.07'	48 jts 2-1/16" IJ Tbg
(12)	10.98'	1 Model J 7" Snap Set Baker Packer set @ 2764' KB
(11)	658.02'	20 jts 2-1/16" IJ Tbg
(10)	60.90'	3 Blast jts
(9)	236.93'	8 jts 2-1/16" IJ Tbg
(8)	10.10'	1 Blast jt
(7)	9.93'	1 2-1/16" Sub
(6)	296.45'	9 jts 2-1/16" IJ Tbg
(5)	2.33'	1 On & Off Tool
(4)	3.75'	Baker Model A-1 Loc/Set Retrievable Csg Packer
(3)	461.29'	14 jts 2-1/16" tbg
(2)	.80'	1 F Nipple ID of 1.43"
(1)	32.27'	1 jt 2-1/16" Tbg.
	4530.88'	Set @ 4548' KB, Packer set @ 4050'.





OIL CONSERVATION COMM.
Santa Fe

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

Re: Application for Triple Completion
Mesa Petroleum Co.
Primo #1A
NW/NW of Section 6, T31N-R10W
San Juan County, New Mexico

Gentlemen:

The undersigned being an authorized representative of the offset operator has been duly informed by Mesa Petroleum Co. of their intent to triple complete the Primo #1A well in Pictured Cliffs, Chacra and Mesaverde formations of the Blanco Field. The triple completed gas well is located in Unit D, Section 6, T31N-R10W, San Juan County, New Mexico and hereby waives all objections to triple completing said well as a Pictured Cliffs-Chacra-Mesaverde gas producer.

Amoco Production Co.
Name of Company

R. B. Giles
Representative of Company

CC: Aztec Oil & Gas Corp.
2000 1st National Bank Bldg.
Dallas, Texas 75202

El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

Amoco Production Co.
P. O. Box 591
Tulsa, Oklahoma 74102

W. P. Carr
% Carr & Irwin
5738 N. Central Expressway
Room 110
Dallas, Texas 75206

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

Re: Application for Triple Completion
Mesa Petroleum Co.
Primo #1A
NW/NE of Section 6, T31N-R10W
San Juan County, New Mexico

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Name of Company

Aztec Oil & Gas Co.

Representative of Company

J. S. Brown

CC: Aztec Oil & Gas Corp.
2000 1st National Bank Bldg.
Dallas, Texas 75202

El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

W. P. Carr
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P. O. Box 591
Tulsa, Oklahoma 74102

