CASE 5851: JEROME P. MCHUGH FOR DOWN-HOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO

CASE NO.

585/

APPlication, Transcripts, Small Exhibits,

ETC.



DIRECTOR

JOE D. RAMEY

Other_

OIL CONSERVATION COMMISSION

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

LAND COMMISSIONER
PHIL R. LUCERO
April 13, 1977



STATE GEOLOGIST EMERY C. ARNOLD

Mr. Richard T. C. Tully General Counsel	CASE NO. 5851 ORDER NO. R-5409
Dugan Production Corporation P. O. Box 234 Farmington, New Mexico 87401	Applicant:
	Jerome P. McHugh
Dear Sir:	
Enclosed herewith are two co Commission order recently en	opies of the above-referenced ntered in the subject case.
Yours very truly, JOE D. RAMEY Director	•
JDR/fd	
Copy of order also sent to:	
Hobbs OCC x Artesia OCC x Aztec OCC x	

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. 5851 Order No. R-5409

APPLICATION OF JEROME P. MCHUGH FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 2, 1977, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of April, 1977, 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, Jerome P. McHugh, is the owner and operator of the Tribal Wells Nos. 1 and 2, located in Unit D of Section 16 and Unit L of Section 9, respectively, Township 26 North, Range 3 West, NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant seeks authority to commingle Blanco Mesaverde and Basin-Dakota production in the wellbore of the aforesaid Tribal Well No. 1, and to commingle Tapacito-Pictured Cliffs, Blanco Mesaverde, and Basin-Dakota production in the wellbore of the aforesaid Tribal Well No. 2.
- (4) That from the Tapacito-Pictured Cliffs zone, the aforesaid Well No. 2 is capable of low marginal production only.

-2-Case No. 5851 Order No. R-5409

- (5) That from the Blanco Mesaverde zone, each of the subject wells is capable of low marginal production only.
- (6) That from the Basin-Dakota zone, each of the subject wells is capable of low marginal production only.
- (7) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (8) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the wells are not shut-in for an extended period.
- (9) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Commission any time either of the subject wells is shut-in for 7 consecutive days.
- (10) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec District Office of the Commission and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Jerome P. McHugh, is hereby authorized to commingle Blanco Mesaverde and Basin-Dakota production within the wellbore of his Tribal Well No. 1, located in Unit D of Section 16 and to commingle Tapacito-Pictured Cliffs, Blanco Mesaverde and Basin-Dakota production within the wellbore of his Tribal Well No. 2, located in Unit L of Section 9, both in Township 26 North, Range 3 West, NMPM, Rio Arriba County, New Mexico.
- (2) That the applicant shall consult with the Supervisor of the Aztec District Office of the Commission and determine an allocation formula for the allocation of production to each zone in each of the subject wells.
- (3) That the operator of the subject well shall immediately notify the Commission's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

-3-Case No. 5851 Order No. R-5409

(4) 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, Chairman

EMERY C. ARNOLD Member

DOE D. RAMEY, Member & Secretary

SEAL

	Page	1
BEFORE THE NEW MEXICO OII, CONSERVATION Santa Fe, New Mexic February 2, 1977		
EXAMINER HEARING	pate - can demanded -	
E MATTER OF:)	
Application of Jerome P. McHugh fo downhole commingling, Rio Arriba County, New Mexico.	r))	CASE 5851

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TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

Lynn Teschendorf, Esq. Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico

For the Applicant:

IN THE MATTER OF:

BEFORE: Daniel S.

Richard Tully, Esq. Attorney at Law Farmington, New Mexico

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INDEX

	Page
THOMAS A. DUGAN	
Direct Examination by Mr. Tully	3
Cross Examination by Mr. Nutter	14
	Direct Examination by Mr. Tully

EXHIBIT INDEX		
	Offered	Admitted
Applicant's Exhibit One, Map	4	14
Applicant's Exhibit Two, Decline Curve	5	14
Applicant's Exhibit Three, Production Figures	6	14
Applicant's Exhibit Four, Daily Drilling Rept	. 6	14
Applicant's Exhibit Five, IES Log	6	14
Applicant's Exhibit Six, Plat	7	14
Applicant's Exhibit Seven, Prod. Figures	7	14
Applicant's Exhibit Eight, Shut-in Press.	8	14
Applicant's Exhibit One-A, Map	8	14
Applicant's Exhibit Two-A, Decline Curve	9	14
Applicant's Exhibit Three-A, Prod. Figures	9	1.4
Applicant's Exhibit Four-A, Daily Drill.Rept.	10	14
Applicant's Exhibit Five-A, IES Log	10	14
Applicant's Exhibit Six-A, Prod.Figures	11	14
Applicant's Exhibit Seven-A, Prod.Figures	11	14
Applicant's Exhibit Eight-A, Prod.Figures	11	14
Applicant's Exhibit Nine-A, Shut-in Press.	12	14
		* **

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sid morrish reporting service General Court Reporting Service Salle Mejia, No. 122, Santa Fe, New Mexico 87. Phone (505) 982-9212 MR. NUTTER: We will call Case Number 5851.

MS. TESCHENDORF: Case 5851, application of Jerome P. McHugh for downhole commingling, Rio Arriba County, New Mexico.

MR. TULLY: May it please the Commission, I'm Richard Tully, attorney for Jerome P. McHugh and I have one witness, Thomas A. Dugan, to be sworn.

(THEREUPON, the witness was duly sworn.)

THOMAS A. DUGAN

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

DIRECT EXAMINATION

BY MR. TULLY:

Q Would you state your name, address and occupation, please?

A. Thomas A. Dugan, 907 Hallett Circle, Farmington,
New Mexico and I'm working as a Consulting Petroleum Engineer.

Q Have you previously testified before the New Mexico
Oil Conservation Commission?

A. Yes.

MR. TULLY: Are the witness's qualifications a matter of record and acceptable?

MR. NUTTER: Yes, they are.

Q (Mr. Tully continuing.) I'm handing you an applica-

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tion for downhole commingling of the Tribal No. 1, would you state the purpose of this application, please?

A. Ckay, Tribal No. 1 is completed as a Dakota well and it's a real poor well and we are looking to attempt to complete it in the Mesaverde formation, only we stated in this application that we would also attempt a Tapacito-Pictured Cliffs completion in the Tribal 1 but this was an error because we have already completed another well in the Tapacito-Pictured Cliffs so in the Tribal No. 1 we only wish to attempt a completion in the Blanco Mesaverde or in the Mesaverde formation and commingle the Dakota and the Mesaverde in the wellbore.

Referring now to Exhibit Number One would you identify it and tell what this exhibit contains?

A. This is just a map showing the location of the Tribal No. 1 and the other wells in the immediate vicinity of the 1, the proration unit of the Dakota formation and it's outlined in red which is the west half of Section 16.

You might note that there was a previous attempt to complete in the Mesaverde, to complete a Pictured Cliffs-Mesaverde dual by consolidating in this same quarter section, that was unsuccessful prior to the time that McHugh acquired the farmout on this acreage, and also, you might note that the Tribal No. 4, a Pictured Cliffs well, was completed in this quarter section previously.

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O This well is located on a Jicarilla Tribal Contract Lease?

- A. Yes, it's on the Jicarilla Reservation.
- Since this Dakota production has fallen off so greatly on this particular well are you having trouble with holding these leases?
- A. Yeah, production has fallen off but it never was very good to start with and the Jicarilla Tribe hasn't questioned whether this lease is producing in paying quantities but they have other leases and it might be difficult to show that this was producing in paying quantities at the present rate, or this particular well. Maybe the lease might be producing in paying quantities but this particular well isn't producing in paying quantities at this time.
 - Q And Jerome P. McHugh is the operator of this well?
 - A. Yes.
- Q. Referring now to Exhibit Number Two, would you identify this, please?
- A. This is just a decline curve showing the past production of the Tribal No. 1 Well and it's quite obvious that it's not a very good well since it's producing less than a hundred MCF a month at the current time and it is difficult to produce because it does make some oil and we don't have enough reservoir energy or at least enough gas velocity to lift the produced fluids.

Q Referring now to Exhibit Number Three, would you identify this, please?

A. This is merely a Xerox of the New Mexico Oil and Gas Engineering Committee Annual Report showing 1975's production from the well. It's really a duplication of our decline curve, however, it shows you the cumulative production and it's quite obvious that the well is a marginal well.

Q. Referring now to Exhibit Number Four, would you identify this, please?

A. This is a copy of our daily drilling report while the well, the Dakota well, was drilled and completed and it merely shows the method in which the Dakota formation was completed and the history of the well, history of the drilling of the well.

Q Referring now to Exhibit Number Five, would you identify that, please?

A. This is a Xerox copy of a portion of the IES log on the Tribal No. 1 and the third page of it shows the Dakota formations and the perforations that we currently have in the Dakota and also would show the Point Lookout zone of the Mesaverde formation on page two, which is the zone that we would like to attempt a completion in.

MR. NUTTER: Where is the interval that you've perforated, Mr. Dugan?

A. It would be fifty-nine twenty or say fifty-nine

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thirty to forty and fifty-nine sixty-five to seventy-five, those two sand zones there.

- Q (Mr. Tully continuing.) Looking at these logs do you feel that perforating in these particular sands you are going to have marginal production?
- A. Well, I hope not, but I'm afraid so. They don't look too good, no.
 - Q. Referring now to Exhibit Number Six.
- Mesaverde Pool and this would be the 1975 production and you can note that the offset well just to the west of our proposed Mesaverde completion which the Tribal No. 1 is shown as that yellow dot in Section 16 and the well just to the west is a rather marginal well and you will also note that Consolidated attempted a completion in this same quarter section in the Mesaverde and gave it up as unsuccessful, which, unfortunately, would lead us to believe that this would probably be a marginal type completion also.
- Q Referring now to Exhibit Number Seven, would you identify it, please?
- A. Okay, this is the 1975 production from the Basin-Dakota Pool and shows the production from offset wells, also from the Tribal 1 and the Tribal 2 Wells, which show again that it's a marginal completion. However, some of the wells back to the west there aren't too bad.

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Referring now to Exhibit Number Eight, would you identify it, please?

A. Okay, these are the shut-in pressures that we have on the Tribal 1 Well in the Dakota formation and you can see that the shut-in pressures have declined rather rapidly.

MR. NUTTER: Were those seven day shut-ins?

A. We didn't label them and I don't know right now.

MR. NUTTER: Would they all be comparative, though?

A. I think -- yeah, they are either seven or three day shut-ins. Possibly some of those later ones are three-day shut-ins, I don't know. The last one there was a seven day shut-in.

Q. (Mr. Tully continuing.) Now, I'm going to hand you an application for the Tribal No. 2, would you identify it and tell what the purpose of it is, please?

A. Okay, Tribal No. 2 is a well that is directly north of the Tribal No. 1 Well and it's also completed as a single Dakota well. It is completed very similar to the 1 and produces similar to the 1, although in this quarter section we do not have a Tapacito-Pictured Cliffs well and, of course, Exhibit One is merely a map showing its location and the offset wells.

Q. So you are trying to commingle this from three different zones which is different now, of course, from the Tribal No. 1?

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	A.	Yes, we	would 1	ike to	I	guess	we are	kind of
-	grasping	at straws	and we	would	like	to at	tempt a	a completion
l	in all th	iree zones		·				1.71

- And Jerome F. McHugh is the operator of this well also?
- Yes.
 - And it is on a Jicarilla Apache Tribal lease?
 - Yes, it is.
- Referring now to Exhibit Number Two under Tribal No. 2 Well?

MR. NUTTER: I think if we just call the set of exhibits for the Tribal No. 1, Exhibits One through Eight and then call the other one One-A through Eight-A.

MR. TULLY: Okay, fine. It will be One-A through 14 Nine-A for the Tribal No. 2.

Okay, Exhibit Two-A is a decline curve of the Tribal 2 well and it shows that it's a little better well than the Tribal 1 Well but still only makes around ten MCF a day or around three hundred MCF a month. It makes some oil and is, unfortunately, a marginal well.

(Mr. Tully continuing.) Referring now to Exhibit Three-A.

Okay, here again is the Xerox of the New Mexico Oil and Gas Engineering Committee Annual Report, showing the 1975 production and the cumulative production, again indicating that it's not too good of a well.

0. And Exhibit Four-A?

A. Four-A is the daily drilling report compiled while we were drilling the well and shows the method in which the well was completed and stimulated.

Q. And Exhibit Five-A?

A. Okay, this is a Xerox copy of a portion of the IES log on the Tribal No. 2. It would show on page two, the Pictured Cliffs formation and on page three the Cliff House and on page four the Point Lookout and page five is the Dakota zone.

MR. NUTTER: I don't have that one on mine.

A. Oh, you don't?

MR. NUTTER: I don't have a page five.

A. Five is the Dakota interval and the perforations that we perforated in the Dakota zone.

A. Okay. Well, looking at the Xerox there of the Pictured Cliffs it sure does look skinny, I don't know if it's worth perforating or not but if we did it would be that interval thirty-six sixty-eight to seventy-two and which is not much of a sand. However, the Cliff House is a little better developed which would be an interval there of fifty-four fifty-six through seventy and fifty-four eighty-five through

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fifty-five hundred. Those two sand lenses there are a little better developed and they are undoubtedly very hard and tight with low porosities but might give up some gas and the Point Lookout zone fifty-eight twenty-four through forty is probably the best looking zone in the entire well while the Mesaverde is pretty thin or for a Point Lookout it's pretty thin but it is really a better developed sand than most of the sands in the well.

- Q So based upon this logic you feel that the production from these other two wells is going to be marginal?
- A. I hope that we are surprised but I'm afraid they will be marginal.
 - Q Referring now to Exhibit Six-A?
- A. Okay, this is the production from the Tapacito-Pictured Cliffs Pool for 1975 and you can note that we are awfully close to some pretty good wells but I'm afraid that we ran out of sand in this particular well.
 - Q And Exhibit Seven-A?
- A. This is the 1975 production from the Blanco Mesaverde Pool and it looks like we are kind of out a mile or so away from any well of any consequence and it shows the offset Mesaverde production.
 - Q And Exhibit Eight-A?
- A. Okay, this is the 1975 production from the Basin-Dakota Pool, here again showing that the Tribal 1 and 2 are

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rather marginal completions, although not too far from other wells that produce fairly well.

- Q And the Tribal No. 1 is the one directly south of this arrow pointing?
 - A. Yes.
 - Q And Exhibit Nine-A?
- A. Okay, this is the shut-in pressures on the Tribal 2 that we have available and it indicates that the shut-in pressures declined rather rapidly.
 - Q Were these exhibits prepared under your supervision?
 - A. Yes.
 - Q. The ownership of the zones involved, is that common?
- A. I am told that it is common, yes. Mr. McHugh informed me that he owned all rights there.
- Q Then in your professional opinion will the total value of the gas be reduced by this commingling that you plan to do?
 - A. Well, it shouldn't be reduced.
 - Q It will be increased?
 - A. Yes.
- Q. Going back now to the production decline curves for both of these wells, the Tribal 1 and the Tribal 2, what reasonable allocation of this commingled production do you propose?
 - A. Well, in the case of the Tribal 1 Well, I would

propose that we allocate the first hundred MCF to the Dakota formation and all of the oil and the remainder of the gas to the Mesaverde formation. That would be a hundred MCF per month to the Dakota formation, which is not a lot of gas and I'm sure all of the oil that the well produces will be coming from the Dakota formation as the Mesaverde formation in this area makes very little oil.

Q And the Tribal No. 2, what allocation do you propose on that one?

A. I would propose that the first three hundred MCF per month of gas be allocated to the Dakota formation and the remainder of the gas be credited to the Mesaverde formation or if we decide to attempt a triple commingled producer, that the gas be split evenly between the other two zones and that all of the oil from the well be credited to the Dakota formation.

Q Now, in your professional opinion will the commingling of both of these wells conserve natural resources of the State of New Mexico, prevent waste and will not impair or interfere with any correlative rights?

A. Yes.

MR. TULLY: At this time we move the introduction of Exhibits One through Eight for the Tribal No. 1 Well and Exhibits One-A through Nine-A for the Tribal No. 2 Well into evidence.

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MR. NUTTER: Applicant's Exhibits One-A through
Nine-A and One through Eight will be admitted into evidence.

(THEREUPON, Applicant's Exhibits One-through
Eight and One-A through Nine-A were admitted
into evidence.)

CROSS EXAMINATION

BY MR. NUTTER:

0. Mr. Dugan, this case was advertised to commingle the three zones, Pictured Cliffs, Blanco Mesaverde and Basin-Dakota in both of these wells, however, it is your proposal only to commingle or to perforate the Mesaverde and commingle it with the existing Dakota perforations in the Tribal No. 1?

A. Yes, that was an error on our part. We didn't do our homework.

Q Right. And then in the Tribal No. 2, you've got existing Dakota perforations and you would probably perforate the Mesaverde and Pictured Cliffs there?

A. Yes. After getting up here in this chair and looking at the Pictured Cliffs it sure looks skinny.

Q So maybe it will be just two zones?

A. Yeah, just two zones. I think we probably have a better chance in the Mesaverde.

Q And at the present time the decline curve for the

Tribal No. 1 indicates that the last month's production was less than seventy MCF, is that right?

- A. The Tribal 1?
- Q. Yes.

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- A. It's not much, whatever it is. Yes, I'm sure that's right.
- Q. And the other wells were some better, producing between two and three hundred MCF per month?
 - A. Yes.

MR. NUTTER: Are there any further questions of Mr. Dugan? Mr. Kendrick?

MR. KENDRICK: Mr. Dugan, you ought to make your allocation in the form of based on percentages, based on the initial production after completion, using the numbers of one hundred MCF and three hundred MCF.

MR. DUGAN: Well, that might be easier if you put it on a percentage basis, yeah.

MR. KENDRICK: When the wells deplete down below a hundred you're going to have a negative production from the other formation?

MR. DUGAN: Oh, yeah, I was hoping that they didn't do that. I suppose that would be the more practical approach to put it on a percentage basis.

MR. KENDRICK: Thank you.

MR. NUTTER: Are there any further questions of the

witness? He may be excused.

(THEREUPON, the witness was excused.)

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

MR. TULLY: No, nothing.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 5851? We will take the case under advisement.

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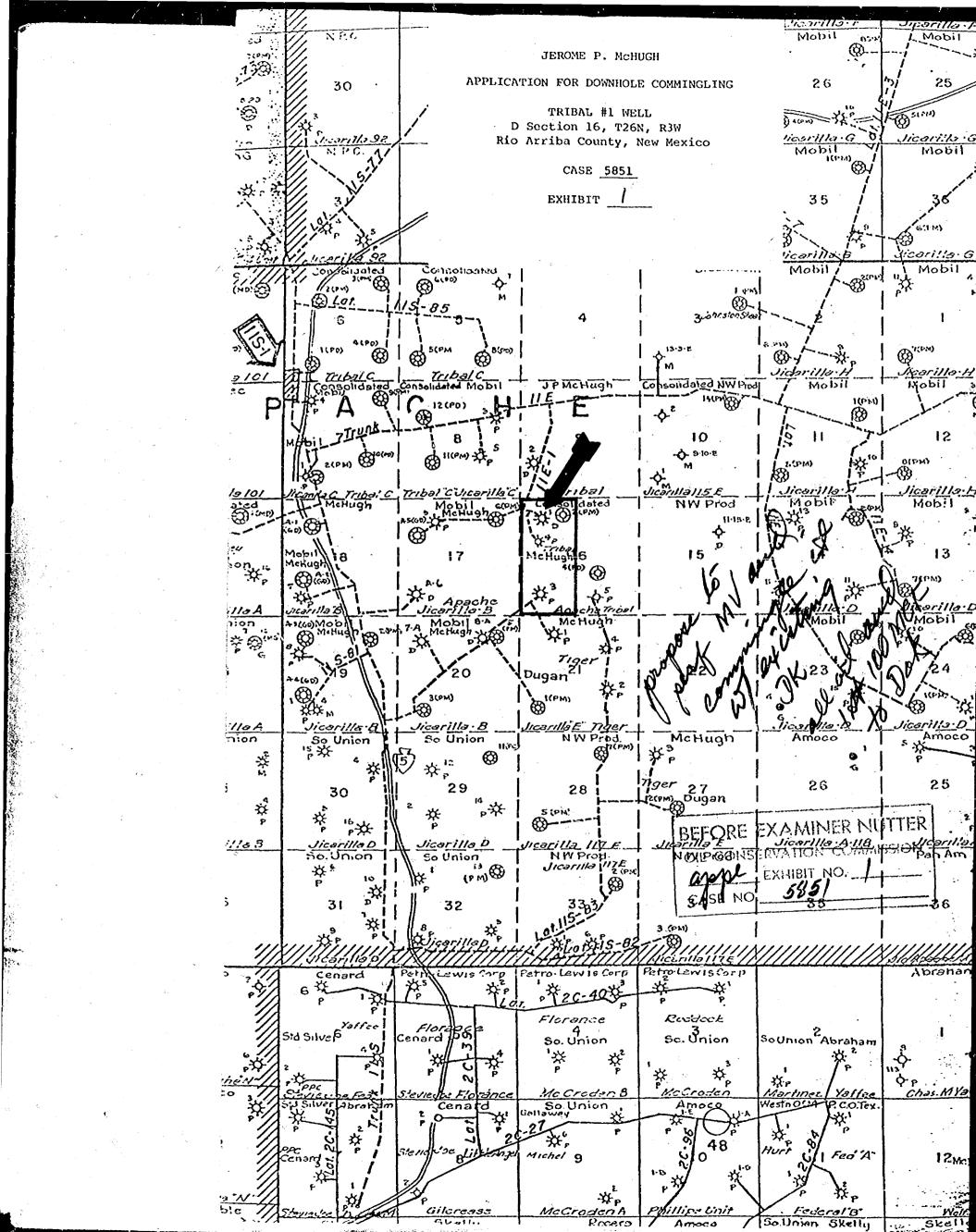
REPORTER'S CERTIFICATE

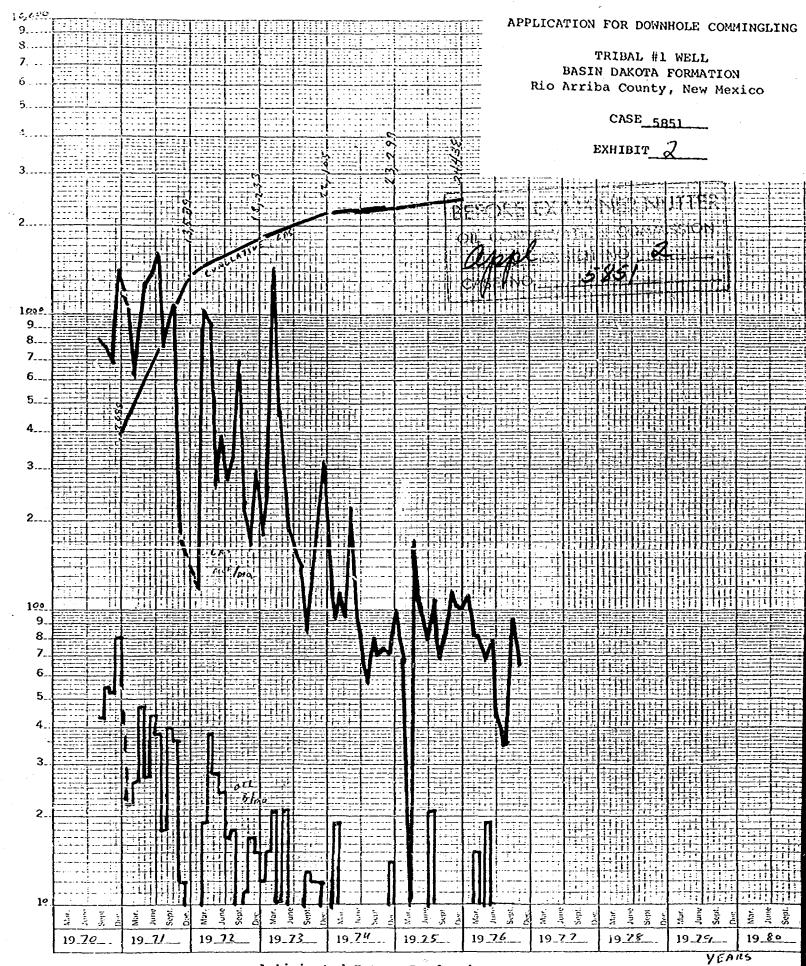
I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and 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 the No. 1977

New Mexico Oil Conservation Commission





Anticipated Future Production

JEROME P. McHUGH

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #1 WELL

CASE 5851
EXHIBIT 3

ANNUAL REPORT

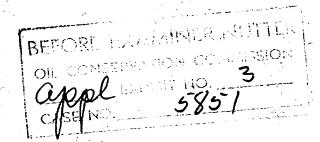
OF THE

NEW MEXICO OIL & GAS ENGINEERING COMMITTEE

HOBBS, NEW MEXICO

VOLUME II
Northwest New Mexico

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JEROME P. McHUGH APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #1 WELL D Section 16, T26N, R3W Rio Arriba County, New Mexico EXHIBIT 4

CASE 5851

RESUME OF TRIBAL #1 WELL COMPLETION HISTORY

5/27/70 Drilling at 40'. 12-1/2" surface hole. Spudded at 5:30 a.m. 5/27/70.

5/28/70 Drilling at 1150' with water. Bit #2 - 7-7/8" hole. Ran 10 jts 8-5/8" OD 24# J-55 8R ST&C csg. T.E. 245' set at 238' RKB. Cemented w/175 sx. Class "C" with 2% CaCl. P.O.B. 11:00 a.m. WOC 12 hours. Pressured up to 1200 psi-held OK.

5/29/70 Drilling at 3105' with water.

5/30/70 Drilling at 4092' with mud and Bit #4. Wt. 8.9, Vis 48.

5/31/70 Drilling at 4560' with Bit #5. Wt. 9.0, Vis 44.

6/1/70 Trip at 4966'. Wt. 9.3, Vis 39.

6/2/70 Drilling at 5264' with Bit #8. Wt. 9.2, Vis 41.

6/3/70 Drilling at 5505'. Wt. 9.2, Vis 41, WL 8.4.

6/4/70 Drilling at 5835'. Wt. 9.4, Vis 45, LCM 10%.

6/5/70 Drilling at 6110' with Bit #9. Wt. 9.1, Vis 41, LCM 15%.

6/6/70 Drilling at 6355'. Wt. 9.0, Vis 42, LCM 8%, WL 10.2.

Drilling at 6765' with Bit #10. Wt. 9.1, Vis 43, LCM 10%. 6/7/70

6/8/70 Drilling at 7180' with Bit #11. Wt. 9.1, Vis 42, LCM 10%.

Drilling at 7480' with Bit #12. Wt. 9.2, Vis 48, LCM 10%. 6/9/70

6/10/70 Drilling at 7765' with Bit #13. Wt. 9.2 Vis 45, LCM 9%, WL 8.4.

Trip at 8052' for Bit #15. Wt. 9.2, Vis 42, LCM 9%. 6/11/70

6/12/70 Drilling at 8160'. Wt. 9.2, Vis 42, LCM 8%.

6/13/70 TD 8195', Wt. 9.2, Vis 60. Ran Welex I.E.S. and Density Log. Went in hole, circulating-conditioning mud.

TD 8195', Wt. 9.2, Vis 60. Laid down drill pipe, ran 252 jts 6/14/70 4-1/2" OD 10.5 and 11.6# K-55 8R ST&C CF&I csg set at 8190'. Dowell cemented first stage with 100 sx 8% gel, 200 sx Class "C" 7-1/2# salt per sx. P.O.B. 7:45 p.m. 6/13/70. Good mud returns while cementing. Max. cementing press. 700 psi--reciprocated csg. OK while cementing. Cemented second stage through Baker stage tool at 6117' with 100 sx Class "C" 40% Diacel "D" 12-1/2# gilsonite per sx. P.O.B. 11:10 p.m. 6/13/70. Good mud returns

while cementing. Max. cementing press. 600 psi. Cemented third stage through Baker stage tool at 3861' with 100 sx Class "C" 40% biacel 12-1/2# gilsonite per sx. P.O.B. 12:20 a.m. 6/14/70. Good mud returns while cementing. Max. cementing press. 500 psi-good job. Nipple up and install 6" BOP.

PBTD 8155'. Picked up 2-3/8" OD tbg--went in hole with bit and drilled Baker stage tools at 3861' and 6117'. Cleaned out to 8155'. Dowell circulated hole, pressure tested csg and BOP to 4000 psi, held OK. Spotted 300 gal 15% HCl acid, pulled tbg. Welex ran Gamma Ray Correlation log, perforate 2 jets/ft 7980'-7984', 7991'-7995', 8059'-8063', 8094'-8097', and 8138'-8150'.

ONSERVATION.

- PBTD 8155'. Dowell fraced Dakota with 3500 HP, 80,000# 20-40 sd, 2390 bbls water with 2-1/2# J-166 per 1000 gal. Breakdown--2500 psi, I.F. 3900 psi, Max. 4200 psi, Ave. 3400 psi, Final 4100 psi. Instant shut-in 2400 psi. 10-min. shut-in 2000 psi, Ave. IR 44 B/M. Made four ball drops of 10 balls each, good pressure increase with each drop. Shut well in 2 hrs--flow well back, went in hole with tbg--jet hole down. Well kicked off. Tagged sand @ 8150', laid down 2-3/8" tbg.
- 6/17/70 PBTD 8155'. Ran 253 jts 1-1/4" OD 2.4# JCW 10R EUE tbg set at 8140'. Well making est. 1100 MCF, released Arapahoe rig.

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//w M. was. Temp. 3.00 @ 69° F @ 1 / 1 / 2 / 2 / 2 / 3 / 5 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6	(4.) GEL 6.8 1 - ml 1 109.7 @ 109.7 @	Orifier 81 Welex 8 Inter. 81 Inter. 85 Driffer 856	Permanent Datum GROUNU LEVEL Elev. Log Measured From KELLY BUSHING Ft. Abov. Drilling Measured From KELLY BUSHING Date C-12-70 Run No. ONE	BTO'FNL &	ALOTA :	A COLON
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Type Fluid in Hole	 			1	ş.	
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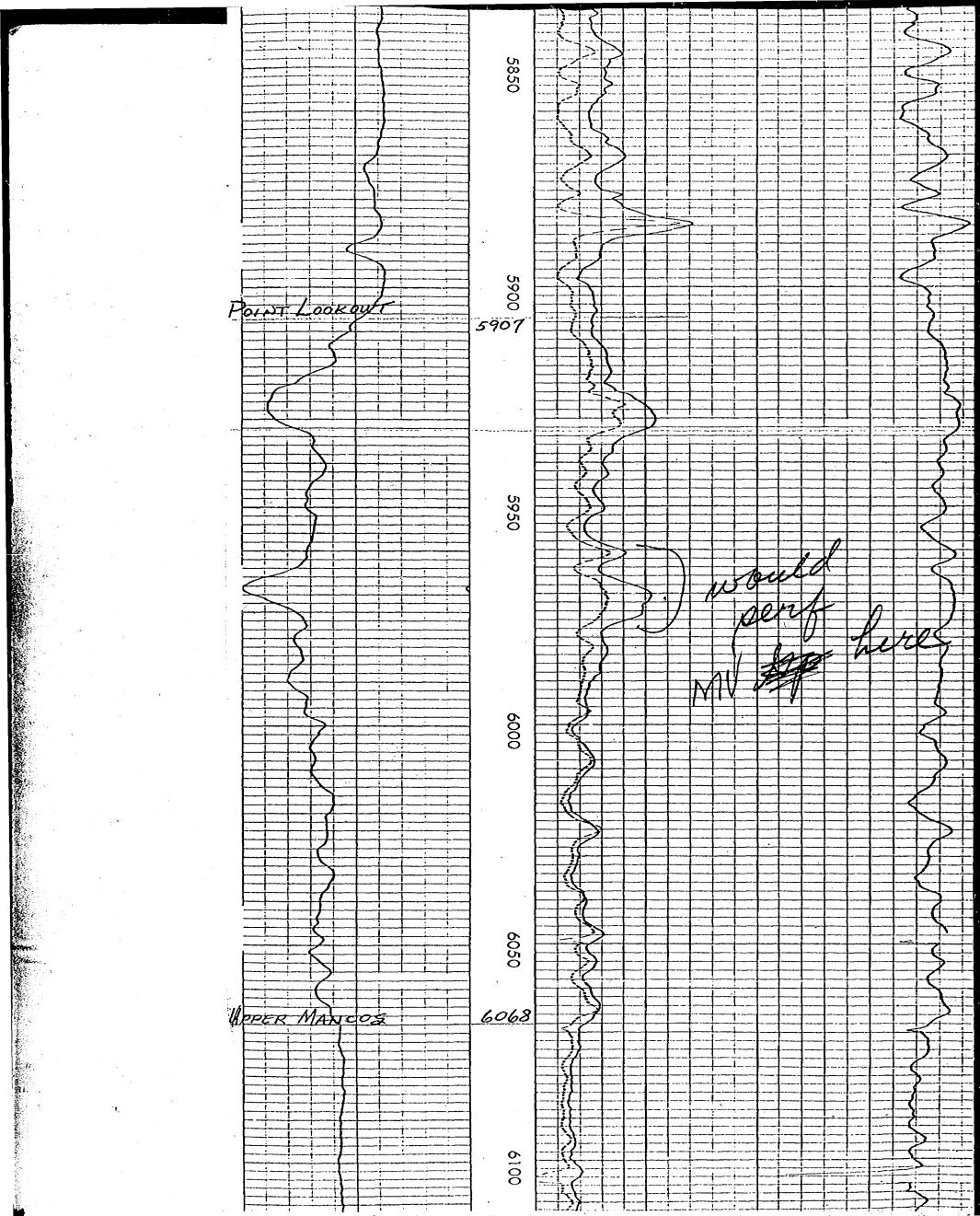
JEROME P	. McHUGH
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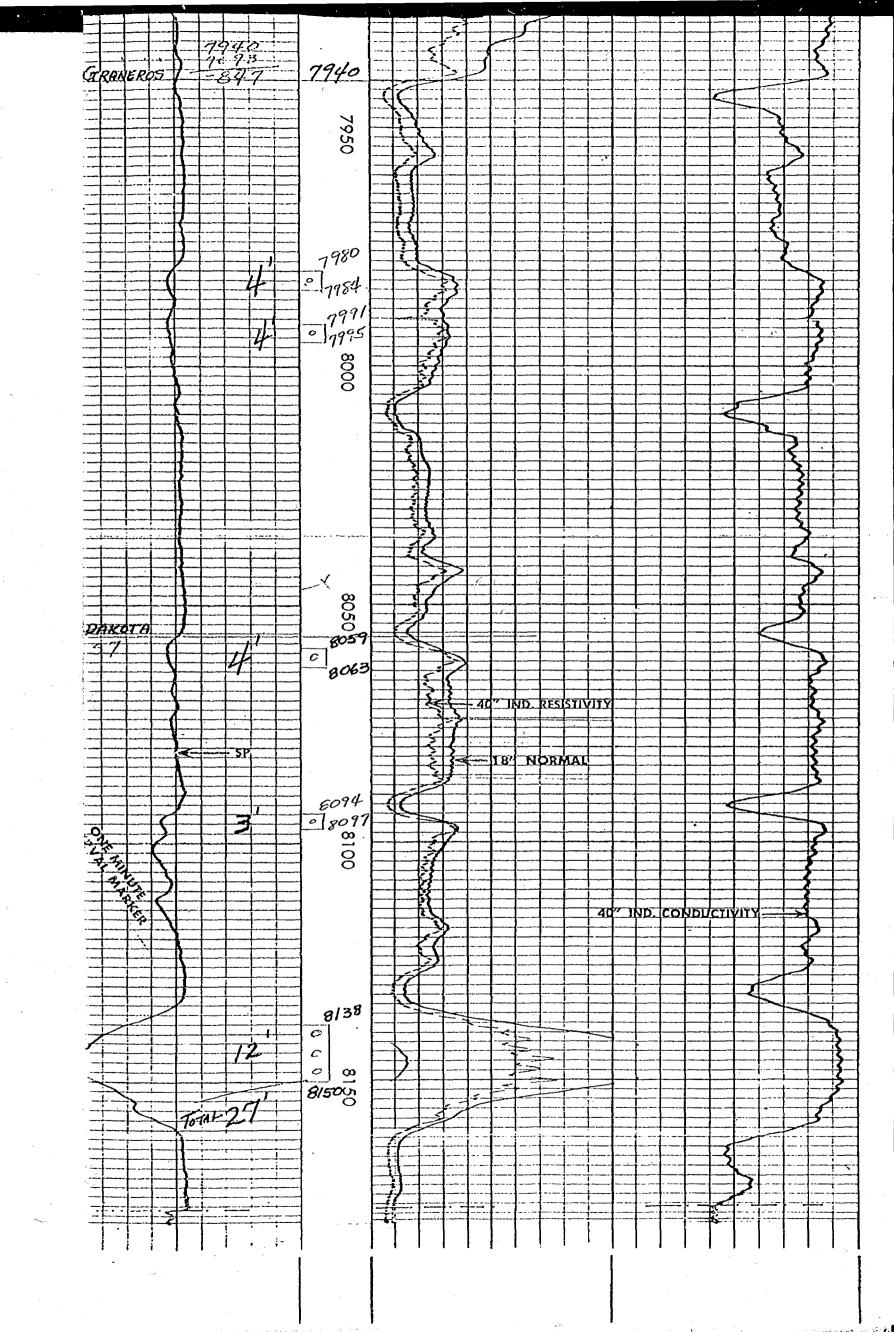
APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #1 WELL
RIO ARRIBA COUNTY, NEW MEXICO

CASE __5851

ЕХНІВІТ <u>5</u>





TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM

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1975 PRODUCTION FROM BLANCO-MESAVERDE POOL

appl 5851

TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM

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1975 PRODUCTION FROM BASIN DAKOTA POOL

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	JEROME P. McHUGH
APPLICA	FION FOR DOWNHOLE COMMINGLING
	TRIBAL #1 WELL
RIO	ARRIBA COUNTY, NEW MEXICO
`	CASE
	EXHIBIT 7

SHUT-IN PRESSURES

Tribal #1 Well

Date	ea.	Casing Pressure
7-28-70		2158
11-18-70		2262
5-6-71	en e	1710
5-15-71		1620
5-8-72		1040
5-4-73		887
6-14-74		400

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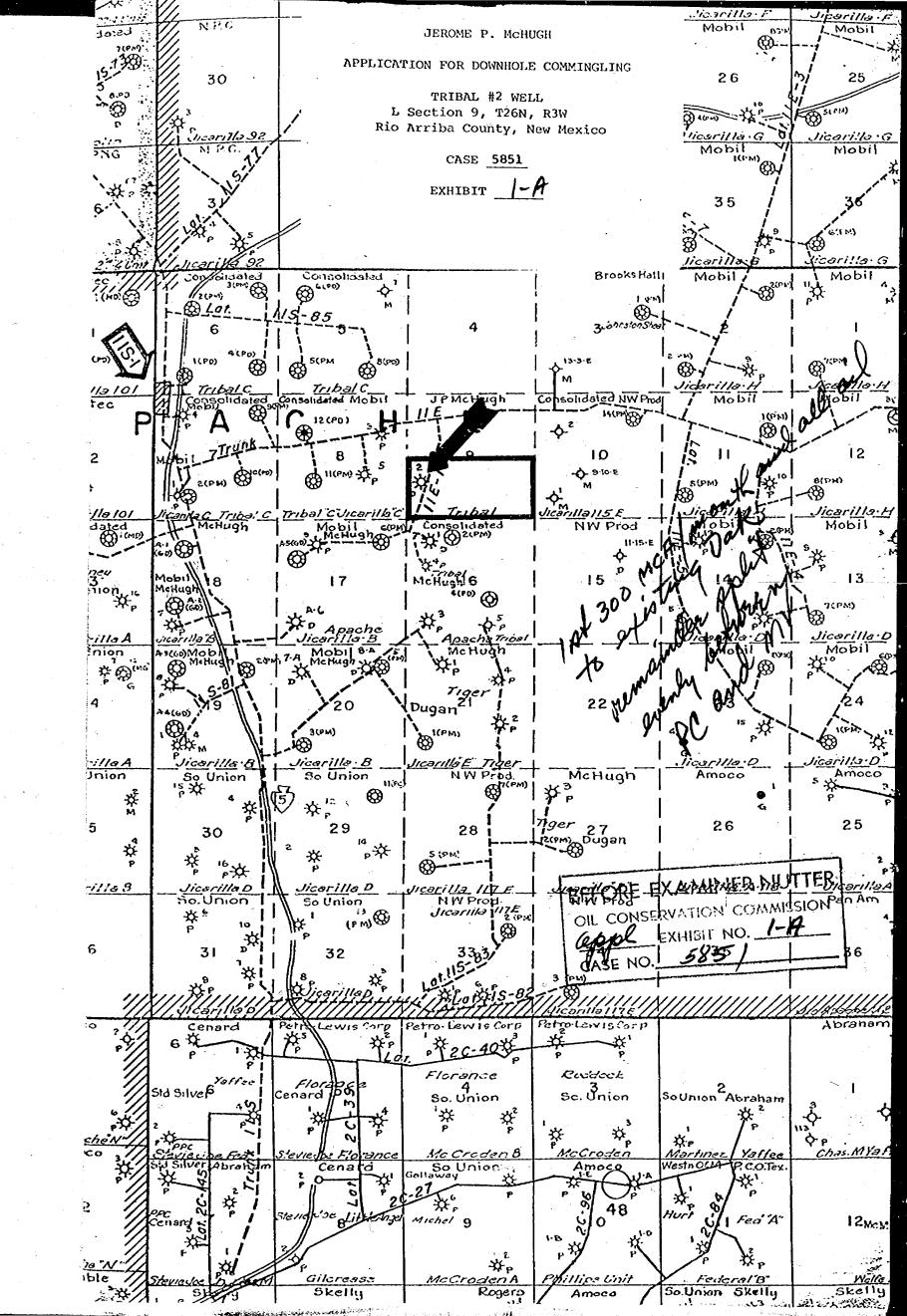
JEROME P. MCHUGH

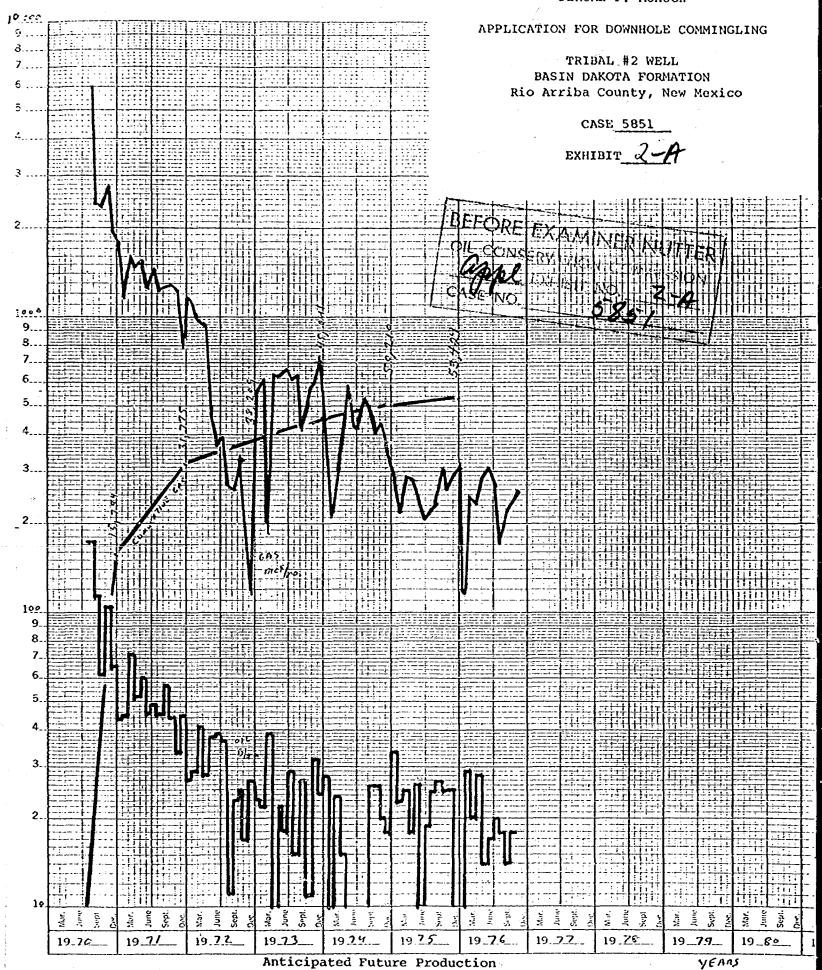
APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #1 WELL
D Section 16, T26N, R3W
Rio Arriba County, New Mexico

CASE <u>5851</u>

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JEROME P. McHUGH

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #2 WELL

CASE __5851

EXHIBIT 3-A

ANNUAL REPORT

OF THE

NEW MEXICO OIL & GAS ENGINEERING COMMITTEE

HOBBS, NEW MEXICO

VOLUME II
Northwest New Mexico

1975

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
OF EXHIBIT NO. 3-A

CAST NO. 5851

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	ONFINUEO BASIN DAI														PAGE 71
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JEROME P. MCHUGH

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #2 WELL

L Section 9, T26N, R3W
Rio Arriba County, New Mexico

CASE 5851

EXHIBIT 4-A

RESUME OF TRIBAL #2 WELL COMPLETION HISTORY

5/3/70	TD 231'. WOC. Drilled 12-1/4" hole to 231'. Ran 11 jts 235' 8-5/8" 24# J-55 csg, set at 226'. Cemented with 175 sx Class "A" with 2% CaCl. P.O.B. at 4:00 a.m. 5/3/70. Cement circulated
5/4/70	Drilling at 1670' with water. Drilling 7-7/8" hole.
5/5/70	Drilling at 3306'. Making trip and survey. Drilling with water
5/6/70	Drilling at 4010' with Bit #5. Mud wt. 8.9, Vis 37, LCM 5%.
5/7/70	Drilling at 4645' with Bit #6. Wt. 9.1, Vis 37.
5/8/70	Drilling at 4954'. Wt. 9.2, Vis 40.
5/9/70	Drilling at 5245'. Wt. 9.3, Vis 41.
5/10/70	Drilling at 5419'. Wt. 9.3, Vis 40.
5/11/70	Drilling at 5738'. Wt. 9.2, Vis 39.
5/12/70	Drilling at 6018'. Wt. 9.2, Vis 45, LCM 20%.
5/13/70	Drilling at 6272'. LCM 18%, Wt. 9.0, Vis 43.
5/14/70	Drilling at 6600'. Wt. 9.0, Vis 42, LCM 11%.
5/15/70	Drilling at 7075'. Wt. 9.1, Vis 44, WL 7.4.
5/16/70	Drilling at 7292'. Wt. 9.2, Vis 41, LCM 10%.
5/17/70	Drilling at 7581'. Wt. 9.2, Vis 42, LCM 10%. Drilling with Bit #13.
5/18/70	Drilling at 7890'. Wt. 9.2, Vis 48, LCM 7%.
5/19/70	Drilling at 8030'. Wt. 9.2, Vis 44, LCM 10%.
5/20/70	Drilling at 8144'. Wt. 9.2, Vis 43, LCM 10%.
5/21/70	TD 8180'. Wt. 9.3, Vis 66, WL 11.0. Attempted to log with Welex, hit bridge at 7625'. Went in hole with drill pipe to clean out.
5/22/70	TD 8180'. Ran Welex IES and Density logwent in hole conditioning mud. Laid down drill piperunning casing.

5/23/70

TD 8180. Ran 250 jts 4-1/2" OD 11.6# and 10.5# K-55 8R ST&C CF&I csg, set at 8180'. Cemented first stage with 100 sx Class "C" 8% gel, 200 sx Class "C" 7-1/2# salt per sx. POB 10:15 a.m. 5/22/70. Good mud circulation during job. Max cementing pressure 700 psi. Cemented second stage through Baker stage collar at 5984' with 100 sx Class "C" 40% Diacel "D" 12-1/2# gilsonite per sx. POB 1:00 p.m. 5/22/70. Good mud returns while cementing. Max cementing pressure 500 psi. Cemented third stage through Baker stage tool at 3781' with 100 sx Class "C" 40% Diacel "D" 12-1/2# gilsonite per sx. POB 2:00 p.m. 5/22/70. Good mud returns while cementing. Max cementing pressure 500 psi. Nipple up csg, installed 6" hydraulic BOP. Picking up 2-3/8" tbg.

PBTD 8136'. Went in hole with 2-3/8" tbg and bit. Drilled Baker stage tools at 3781' and 5984'. Cleaned out to 8136'.

Pressure tested casing and BOP to 4000 psi-held OK. Spotted 300 gal 15% HCl--pulled out of hole. Welex ran Gamma Ray Correlation log. Perforate 2 jets/foot 7905'-7909', 7918'-7922', 7980'-7984', 8015'-8019', 8054'-8060', 8066'-8077'. Dowell fraced Dakota formation with 3500 HP, 70,000# 20-40 sd, 2138 bbls water, 2-1/2# J-166 per 1000 gal. Breakdown--4000 psi, IF 3800 psi, Min. 3100 psi, Ave. 3150 psi, Final 3600 psi. Instant shutin 1900 psi, 10 min. shut-in 1700 psi. Ave. IR 47 B/M. Made 4 ball drops of 8 balls each, some pressure increase with each ball drop. Well shut in 2 hrs. Flowing well back.

5/25/70

PBTD 8136'. Went in hole with 2-3/8" tbg, jetted hole down with drilling gas. Well kicked off making est 1000 MCF. Laid down 2-3/8" tbg.

5/26/70

PBTD 8136'. Ran 254 jts 1-1/4" OD 2.4# JCW 10R EUE tbg. Set at 8067' RKB. Pumped out tbg plug, released rig.

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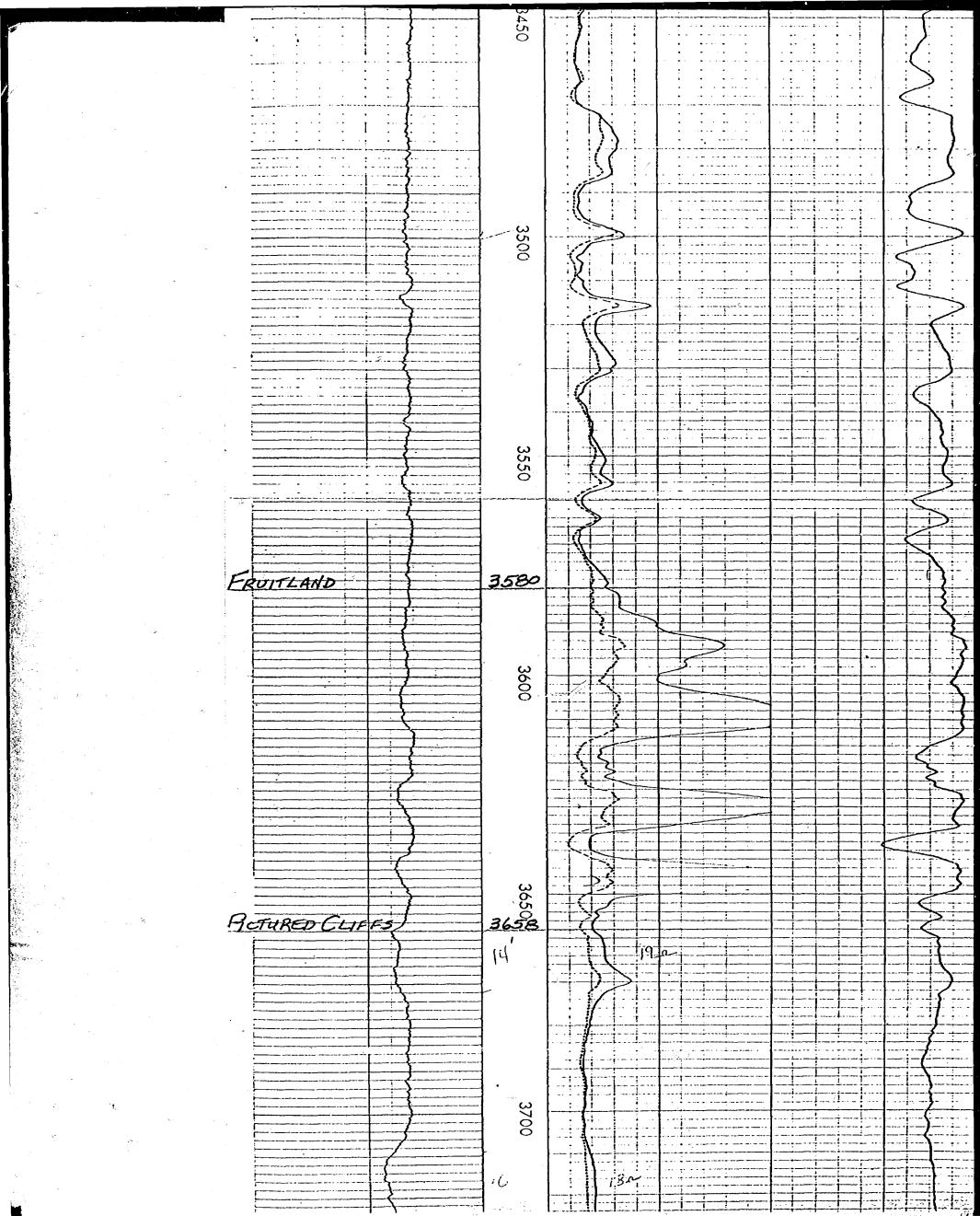
JEROME P. McHUGH

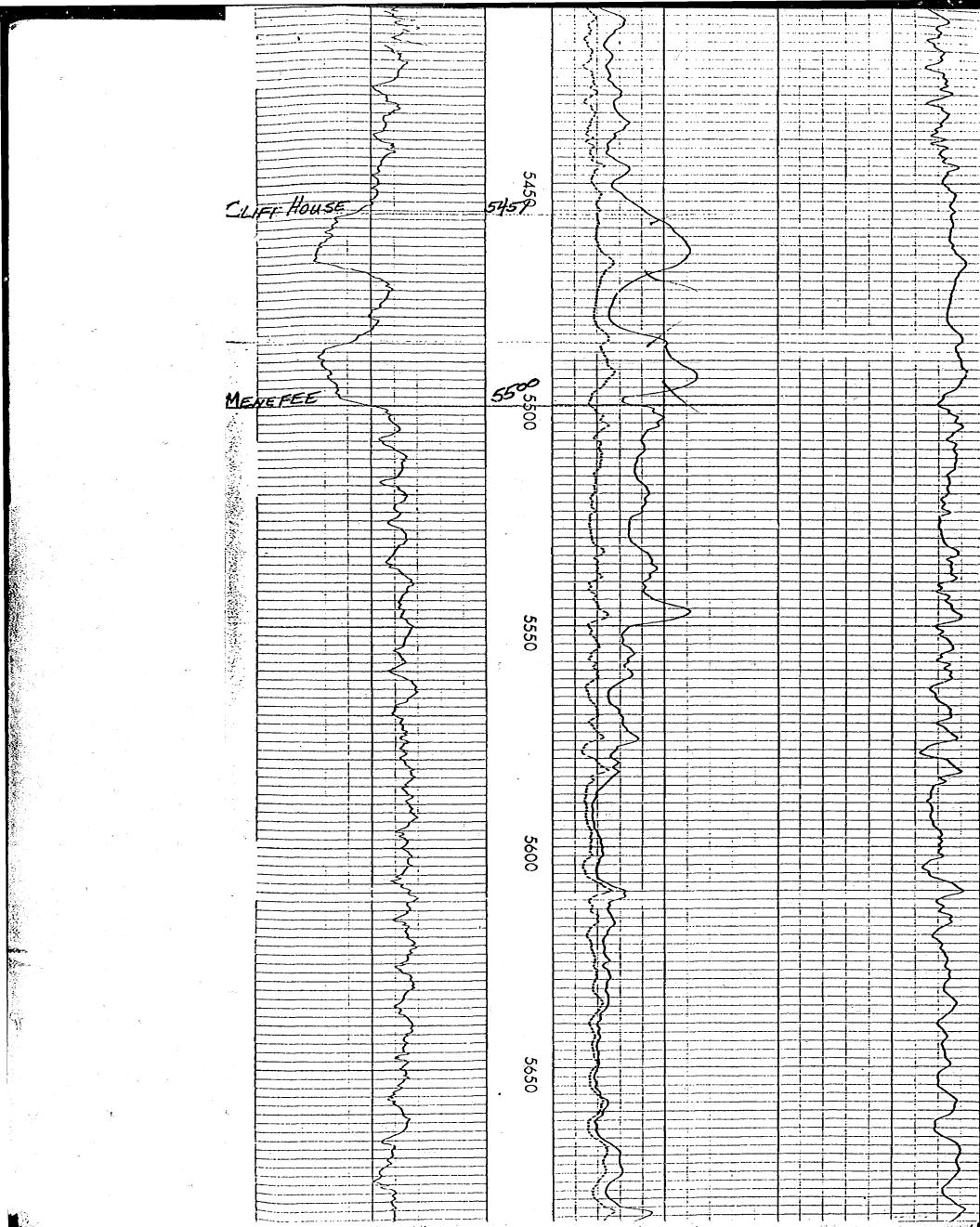
APPLICATION FOR DOWNHOLE COMMINGLING

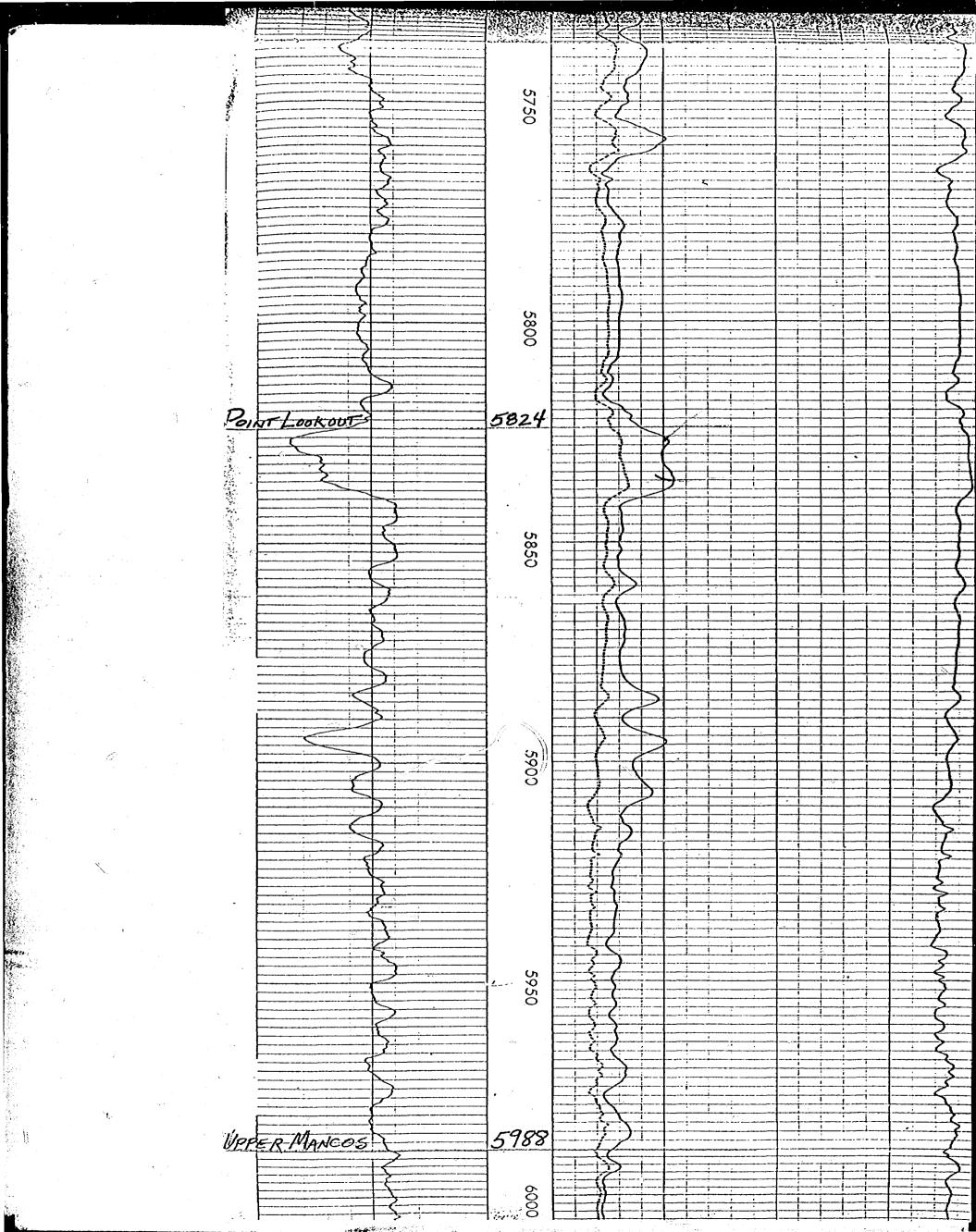
TRIBAL #2 WELL
RIO ARRIBA COUNTY, NEW MEXICO

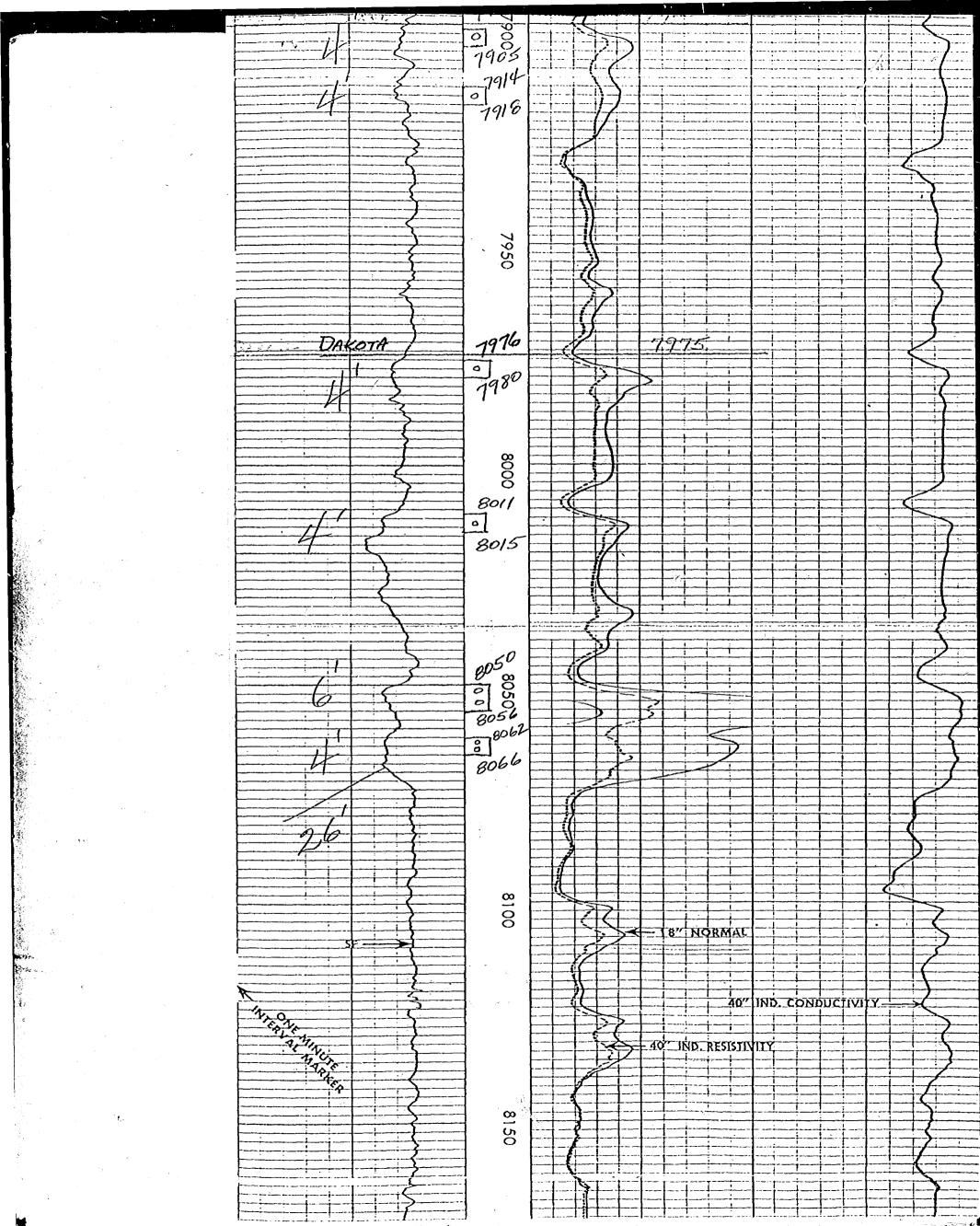
CASE __5851

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1975 PRODUCTION FROM TAPACITO PICTURED CLIFFS POOL

BEFORE EXAMINER NUTTE	R
OIL CONSERVATION TO A CONSERVATION OF A	1
CASE NO. 595/	_

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #2 WELL
RIO ARRIBA COUNTY, NEW MEXICO

CASE

5851

EXHIBIT

TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM

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1975 PRODUCTION FROM BLANCO-MESAVERDE POOL

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	JEROME P. MCHUGH
	APPLICATION FOR DOWNHOLE COMMINGLING
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TOWNSHIP 26 NORTH, RANGE 3 WEST, NMPM

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1975 PRODUCTION FROM BASIN DAKOTA POOL

BEFORE EXAMINER NUTTER
OIL CONSERVATION CHANNELSION
appl EXHIBIT NO. 8-A
CASE NO. 585/

JEROME P. MCHUGH

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #2 WELL

RIO ARRIBA COUNTY, NEW MEXICO

CASE 5851

EXHIBIT 8-A

SHUT-IN PRESSURES

Tribal #2 Well

Date	Casing Pressure
6/15/70	2240
9/9/70	1562
5/6/71	1052
5/8/72	882
5/4/73	622
6/14/74	525

BEFORE EXAMINED MUTTER
OIL CON
CANAL 5851

JEROME P. McHUGH

APPLICATION FOR DOWNHOLE COMMINGLING

TRIBAL #2 WELL L Section 9, T26N, R3W Rio Arriba County, New Mexico

CASE <u>5851</u>

EXHIBIT $9-\theta$

- CASE 5845: Application of Texaco Inc. for an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Navajo Tribe "BS" Well No. 5 to be drilled 1340 feet from the South line and 1300 feet from the West line of Section 23, Township 26 North, Range 18 West, Tocito Dome Penn "D" Pool, San Juan County, New Mexico.
- CASE 5846: Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of its South Empire

 Deep Unit Well No. 13 to be drilled 660 feet from the South line and 1597 feet from the West line of

 Section 30, Township 17 South, Range 29 East, South Empire Field, Eddy County, New Mexico, the S/2 of
 said Section 30 to be dedicated to the well.
- CASE 5810: (Continued from the January 19, 1977, Examiner Hearing)

Application of Yates Petroleum Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Stonewall "EP" Com Well No. 1, located in Unit F of Section 30, Township 20 South, Range 28 East, Eddy County, New Mexico, to produce gas from the North Burton Flat-Wolfcamp Gas Pool and an undesignated Morrow gas pool.

- Application of Yates Petroleum Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Gossett "EU"

 Well No. 1, located in Unit K of Section 26, Township 17 South, Range 25 East, Eddy County, New Mexico, in such a manner as to produce gas from the Lower Wolfcamp or Upper Pennsylvanian and the Lower Pennsylvanian formations through the casing-tubing annulus and tubing, respectively.
- 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 Pipkin HE Well

 No. 1 to be drilled 660 feet from the South and West lines of Section 4, Township 18 South, Range 25

 East, Eddy County, New Mexico, the S/2 of said Section 4 to be dedicated to the well.
- CASE 5849: Application of King Resources Company for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Long Canyon Unit Area comprising 18,880 acres, more or less, of State and Federal lands in Townships 19 and 20 South, Ranges 19 and 20 East, Chaves County, New Mexico.
- Application of Pennzoil Company for adoption of pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the adoption of pool rules for the North Mescalero-Cisco Pool, Lea County, New Mexico, including provision for a special gas-oil ratio limit of 4,500 to one.
- CASE 5117: (Reopened)

In the matter of Case 5117 being reopened pursuant to the provisions of Order No. R-4691-A, which order extended the 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 North Dagger Draw-Upper Pennsylvanian Pool should not be developed on less than 160-acre proration units and why the special depth bracket allowable should be retained.

- Application of Jerome P. McHugh for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Tapacito-Pictured Cliffs, Blanco Mesaverde, and Basin-Dakota production in the wellbore of his Tribal Wells Nos. 1 and 2 located in Unit D of Section 16 and Unit L of Section 9, respectively, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.
- CASE 5852: Application of Jerome P. McHugh for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Wildhorse-Gallup and Basin-Dakota production in the wellbore of his Apache Wells Nos. 3 and 4, located in Units D and L, respectively, of Section 19, Township 26 North, Range 3 West, Rio Arriba County, New Mexico.
- Application of Carl Engwall for an exception to casing and cementing requirements of Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing and cementing requirements of Order No. R-111-A to eliminate the salt protection casing string in a well he proposes to drill in Unit L of Section 27, Township 20 South, Range 34 East, Lynch-Yates-Seven Rivers Pool, Lea County, New Mexico.
- Application of Palmer Oil and Gas Company for an unorthodox location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Stevenson Well No. 2 to be drilled 1850 feet from the North line and 1150 feet from the West line of Section 8, Township 26 North, Range 2 West, Blanco-Mesaverde Pool, Rio Arriba County, New Mexico, the N/2 of said Section 8 to be dedicated to the well.

December 2, 1976

Joe Ramey
Secretary - Director
N. M. Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Re: Downhole Commingling of Tribal #1 and #2 Wells and Apache #3 and #4 Wells

Dear Mr. Ramey:

Enclosed are replacement applications in duplicate for the downhole commingling of the captioned wells. Apparently the original applications were lost in the mail.

Please note we are requesting these applications be set for hearing on February 2, 1977.

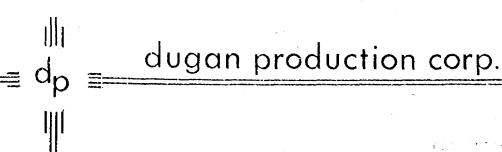
If you need further information or assistance, please advise.

Sincerely,

Richard Tully General Counsel

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Enclosures



November 23, 1976

Joe D. Ramey
Secretary - Director
New Mexico Oil Conservation Commission
Box 2088
Santa Fe, NM 87501

Re: Applications for Approval for Downhole Commingling of the Tylbal #1, Tribal #2, Apache #3, and Apache #4 Wells in Rio Arriba County, New Mexico

Dear Mr. Ramey:

Enclosed are the following items concerning the captioned Applications for downhole commingling of the Tribal #1, Tribal #2, Apache #3, and Apache #4 Wells:

1. Two copies of the Application for Approval for Downhole Commingling for each of these four wells as well as a Certificate of Mailing for each well stating that all operators of leases offsetting the dedicated acreage for each well, the USGS, and the Supervisor of the District III Office of the Oil Conservation Commission have been sent copies of these Applications.

Please set these Applications for hearing on December 15, 1976, if possible.

Sincerely,

Richard T. C. Tully
Richard T. C. Tilly
General Counsel

pt

Enclosures

Case 5851

Sarta Fe

COMMERCATION COMM.
OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

In the Matter of the Application of Jerome P. McHugh for Downhole Commingling of the Tribal #1 Well in Rio Arriba County, New Mexico

APPLICATION

Pursuant to Rule 303 C of the State of New Mexico Oil Conservation Commission Rules and Regulations, the Applicant, Jerome P. McHugh, by and through his attorney, Richard T. C. Tully, hereby makes application for approval of downhole commingling in the well bore of the Tribal #1 Well in Rio Arriba County, New Mexico.

The Applicant further states:

- 1. The Operator of the Tribal #1 Well is the Applicant, Jerome P. McHugh.
- 2. The Tribal #1 Well is located on the Jicarilla Tribal Contract No. 116 insofar as it covers the following described lands:

Township 26 North, Range 3 West, NMPM Section 16: W/2 Rio Arriba County, New Mexico

#1016-26.3

- 3. The legal location of the well is as follows:
 - Township 26 North, Range 3 West, NMPM Section 16: 870' FNL - 920' FWL (Unit Letter D) Rio Arriba County, New Mexico
- 4. The Tribal #1 Well is currently completed in the Basin Dakota Pool.
- 5. The Tribal #1 Well is capable of only low marginal production from the Tapacito Pictured Cliffs Pool, the well is also capable of only low marginal production from the Blanco Mesa Verde Pool, and the well is also capable of only low marginal production from the Basin Dakota Pool.
 - 6. The ownership of the above mentioned pools is common.
- 7. The proposed commingling from the above three pools will result in the recovery of additional hydrocarbons from each of the mentioned pools, thereby preventing waste, and the commingling will not violate correlative rights.

WHEREFORE, the Applicant requests this Application be set for hearing on December 15, 1976; and after this hearing the New Mexico Oil Conservation Commission grant this Application by giving approval to the downhole commingling of the Tribal #1 Well in Rio Arriba County, New Mexico.

Respectfully submitted,

Richard T. C. Tully
Attorney for Applicant

P. O. Box 234

Farmington, New Mexico 87401

CERTIFICATE OF MAILING

I certify that I mailed a copy of the Application for Downhole Commingling for the Tribal #1 Well in Rio Arriba County, New Mexico to all operators of leases offsetting the dedicated acreage for this well, the U. S. Geological Survey, and the Supervisor of the District III Office of the Oil Conservation Commission.

Richard T. C. Tully Attorney for Applicant

P. O. Box 234

Farmington, New Mexico 87401

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

dr/

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

> CASE NO. 5851 Order No. R- 5409

well bore of the aforesaid Tribal WEII No.

APPLICATION OF JEROME P. MCHUGH FOR DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 2

19 77, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter 1977 NOW, on this , the Commission, day of a quorum being present, having considered the testimony, the record,

and the recommendations of the Examiner, and being fully advised

FINDS:

in the premises,

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject; matter thereof.
- That the applicant, Jerome P. McHugh owner and operator of the Tribal Wells Nos. 1 and 2 and Unit L of Section 9, respectively, in Unit D of Section 16, Township 26 North 3 West , NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant seeks authority to commingle Blanco commingle Basin-Dakota apacito-Pictured Cliffs, and Blanco Mesaverde, and production atoresaid Tribal Wall No Z.

in the wellbore of the above described wells.

- That from the Tapacito-Pictured Cliffs zone, the aforesaid WELL No. Z **ubject well** is capable of low marginal production only.
- each of (5) That from the Blanco Mesaverde subject wells is capable of low marginal production only.

That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby greventing waste, and will not violate correlative rights.

each of

(6) That from the Basin-Dakota zone, the subject wells is capable of low marginal production only.

Case No. Order No. R-(3) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the wells is not shut-in for an extended period. (4) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Commission any time the subject wells is shut-in for 7 consecutive days. That in order to allocate the commingled production to each of the commingled zones in the subject wells. applican should consult with the supervisor) of the 11 to mmission and determine percent of the District Office of the TITE ommission to the Tapacito-Picture to zone, and an allocation formula for each of the production zones. zone and percent of the comingled tion to the Basin Dakota zone IT IS THEREFORE ORDERED: (1) That the applicant, Jerome P. McHugh hereby authorized to commingle Tapacito-Pictured Cliffs, xand Blanco Mesaverde and Basin-Dakota production within the wellbore e Tribal Wells Nos. located in Unit Section Both in Township 26 North , Range 3 , NMPM, Rio Arriba County, New Mexico. I shall consult with the Supervisor of the Aztec Destrick Office of the Communication should be allocated to the Tabaoi to Pictured Cliffs and determine an allocal altocation of production to each zone in each of production what be allocated to the Blanco-Mesaverde subject wells. percent of the zone and production shall be allocated to the Basin Dakota zone That the operator of the subject well shall immediately commingled notify the Commission's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action. That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

designated.