CASE 4072: Appli. of PENNZOIL UNITED FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

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Application Transcripts.

Small Exhibits

SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-669? • ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
March 5, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Pennzoil United, \\
Inc., for a dual completion, \\
Eddy County, New Mexico.

Case No. 4072

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING



MR. NUTTER: The hearing will come to order, please. The first case this morning will be 4071.

MR. HATCH: Case 4071. Application of T. J. Sivley for a dual completion and salt water disposal, Lea County, New Mexico.

I received a call from Mr. Jerry Losee requesting that this case be passed and that he be allowed to come in a little later.

MR. NUTTER: He'll be here later today. We will defer hearing Case 4071 for the time being and call Case 4072.

MR. HATCH: Application of Pennzoil United, Inc., for a dual completion, Eddy County, New Mexico.

MR. DURRETT: If the Examiner please, J. M. Durrett, appearing on behalf of Pennzoil United. I have one witness, Mr. Boyd.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 12 were marked for identification.)

RODNEY BOYD

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

DIRECT EXAMINATION

BY MR. DURRETT:

Q Mr. Boyd, will you please state your name and address?

- A Rodney Boyd, number 10 Keenlan in Midland, Texas.
- Q What is your position with Pennzoil United?
- A Petroleum engineer.
- Q Have you previously testified before this Commission as an expert witness?
 - A No, sir, I have not.
- Q Would you briefly give us your background and education in the petroleum business?
- A I graduated from Texas Tech in 1959 as a petroleum engineer with a B. S. Degree, subsequently went to work for Perkins Prothro Company, which is an independent producing company, where I worked till 1967, and then I went to work for Pennzoil and I worked there as a production engineer for the past two years.

MR. DURRETT: Are the witness's qualifications acceptable?

MR. NUTTER: They are.

- Q (By Mr. Durrett) Now, Mr. Boyd, briefly, what is Pennzoil seeking by this application in Case Number 4072?
- A We're seeking a conventional dual completion of its Mobil "12" Federal Well No. 1 located in Section 12, Township 23 South, Range 26 East, Eddy County, in such a manner as to permit the production of gas from an undesignated Atoka

gas pool and gas from an undesignated Morrow gas pool through parallel strings of tubing.

- Q What is the actual footage location of that well in Section 12?
- A We're located 660 from the North Line, 1980 from the East Line of Section 12, Township 23 South, Range 26 East, Eddy County, New Mexico.
- Q Do you have a plat showing the area that's involved here?
 - A Yes, sir.
 - Q What else does that plat show?
- A It shows our offset operators, giving their names, addresses, and the acreage which we have dedicated to this well, being the North Half of the section.
 - Q Is that your Exhibit Number 1?
 - A Yes, sir, it is.
 - Q Let's move to your Exhibit Number 2; what is that?
- A It's Commission form for the well completion, briefly giving the perforations in the Atoka zone, casing strings that were set, and the treatments that were given the Atoka zone and the absolute open flow or potential of the well.
- Q Let's move to your Exhibit Number 3; is that the same form for the other zone?

- A Yes, sir, it is.
- Q Does that show basically the same data only this is for the Morrow?
 - A Correct, yes, sir.
 - Q Do you have some drill stem data?
 - A Yes, sir.
 - Q Is that your Exhibit Number 4?
 - A Correct, yes, sir.
 - Q What does that show, briefly?
- A All the porous zones that were tested in the well, the drill stem test Number 5 was for our Atoka zone, which I'm sure is our primary interest and Number 7 is for our Morrow zone. We have had ten tests in the well.
- Q Now, both these zones are undesignated gas zones, is that correct?
 - A Yes, sir, correct.

MR. NUTTER: Just to interrupt very briefly, what zone would drill stem test Number 10 have been in, Devonian?

THE WITNESS: Yes, sir.

MR. NUTTER: That's all, thank you.

- Q (By Mr. Durrett) Okay, Mr. Boyd, let's move to your Exhibit Number 5 now, what does that show?
 - A deviation record that was taken as the well was

being drilled.

- Q Nothing particularly unusual about that?
- A No.
- Q Now, move to your Exhibit Number 6, which is a diagrammatic sketch of the well; will you tell us in detail how the well is completed?

A To go in the order I suppose that we did this work, we set 11 joints 13-3/8 casing, set at 359 feet, cemented with 350 sacks of cement. We had centralizers on each joint of casing and our cement circulated. It also shows that we ran 164 joints 9-5/8 casing set at 5270, cemented with 800 sacks of cement. We had centralizers from 4970 to 5270.

Next is our 7-inch casing string which we ran 238 joints set at 11,850, cemented with 625 sacks. The top of the cement came back to 9080. We had scratchers and centralizers from 11,300 to 11,817, one per joint. We also had scratchers and centralizers from 10,650 to 10,990, one per joint. That covers the two zones of perforations.

Next, I suppose the perforations are Atoka perforations, are from 10,842 to 10,868, which we have ten holes. Our Morrow perforations are 11,453 to 11,539, which there's 14 holes. We ran a Baker Model D packer set at 11,345 to segregate the two zones, we ran 15 joints of 2-3/8 CS Hydril

tubing, to go into the Model D packer; above that we have 300 constituting the long string of tubing, 331 joints of 2-3/8 Hydril tubing. We have a Baker Model K packer set at 10,798 to produce the Atoka zone, and we have a Baker Model L sliding sleeve at 10,873 to facilitate circulating packer fluid in the hole to keep from, corrosion from working on the casing and the short string in the Atoka zone has 327 joints, 2-3/8 CS Hydril tubing.

- Q In your opinion is this a standard method of dual completion that you have here?
 - A Yes, sir, certainly is.
- Q Let's move to the log now, I think that's Exhibit
 Number 7. What does that show?
- A It shows the tops of our different zones and the perforations, at 10,610 is the top of the Atoka zone, 10,842 to 868 is where we are perforated in the Atoka, at 11,100 shows the top of the Morrow, which is a limestone and the top of the Lower Morrow, which is more of a sand and shale and which we are perforated in the Morrow 11,453 to 11,539 and top of the Upper Mississippian is 11,810.
 - Q Moving to your Exhibit Number 8, now what is that?
- A Packer setting affidavit from the wire line company showing that they did set a Model D packer to

segregate the two zones.

- Q What about your packer leakage test, now, is that your Exhibit Number 9?
 - A Yes, sir.
 - Q What does that show, briefly?
- A It shows that we did successfully segregate the two zones. There was no commingling, downhole commingling of the production. We have the charts also with the packer leakage form showing that there is definitely no communication downhole; first the Atoka zone was flowed, dead weight tester readings were made to start with along through the test and at the end, when we opened our Atoka zone we had a dead weight tester pressure of 3,888, beg your pardon, 4,060 on our Atoka zone. At the end of the test we had dead weight tester of 3414. The lowest that we recorded was 2900, which was on a larger choke. Our Morrow zone did stay stable at 4,060, at 3,888 during the test, complete in seven hours.

The other chart was taken the following day, both zones were again stabilized. We flowed the Morrow zone at the start of the test, we had a 3890 pressure, flowing on various size chokes at the end of six hours we had 3189, the lowest recorded was 2102. The Atoka zone stayed at 4,060 throughout the test.

Q Now, move to your Exhibit Number 10, now what is that?

- A Multipoint test, or shows the capability of the well to produce, calculated absolute open flow of the Atoka zone.
- Q You have some charts attached to that showing the same thing?
- A Yes, sir. Bottom hole pressure study and flowing bottom hole pressures and then, of course, the points where you get your absolute open flow after making the four points test.
 - Q What is Exhibit Number 11?
- A The same thing for the Morrow zone. Four-point back pressure test.
- Q Now, did your company notify offset operators of your pending application here?
 - A Yes, sir, we did.
- Q Do you have an exhibit showing that you did send them a notice?
 - A Right, yes, sir. By certified mail.
 - Q Is that your Exhibit Number 12?
 - A Correct, yes, sir.
- Q Do you have with you the return receipt showing that all of these letters were received by these companies?
 - A Yes, sir, I certainly do.
 - Q And none of the companies have replied?

- A No, sir.
- Q You haven't received any objection at any time?
- A No, sir.

MR. DURRETT: Mr. Examiner, we do have the certified receipts which we could show to the Examiner if you would like to see them.

MR. NUTTER: I don't believe that will be necessary.

- Q (By Mr. Durrett) Now, Mr. Boyd, were Exhibits 1 through 12 prepared by you or under your supervision?
 - A Yes, sir, they were.

MR. DURRETT: If the Examiner please, I would move the introduction of Applicant's Exhibits 1 through 12.

MR. NUTTER: Applicant's Exhibits 1 through 12 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 1 through 12 were offered and admitted in evidence.)

MR. DURRETT: That would conclude my direct examination.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Boyd, I notice on your Exhibits 2 and 3 that no liquids are reported. Does this well produce dry gas in both

zones?

- Dry gas in both zones.
- On Exhibit Number 6 it's complete with one exception, A what is the top of the cement on the intermediate casing string? It was cemented with 800 sacks but no top is given, do you know the top?
 - No, sir, I don't believe I do.
 - Can you get that information and send it in to us? Q
 - Yes, I certainly can.

MR. NUTTER: Are there any further questions of this Α witness? He may be excused.

(Witness excused.)

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

Durrett?

MR. DURRETT: That's all we have, Mr. Examiner.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4072? We will take the case under advisement.

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STATE OF NEW MEXICO)
: SS
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 10th day of March, 1969.

Notary Public-Court Reporter

My commission expires:

June 19, 1971.

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PENNZOIL UNITED, Inc.

WESTERN DIVISION OFFICE * WALL TOWERS WEST - MIDLAND, TEXAS * PHONE (915) 682-7316

MAILING ADDRESS: P. O. DRAWER 1228 MIDLAND, TEXAS 79701

pile 4012

March 6, 1969

New Mexico Oil Conservation Commission State Land Office Building Santa Fe, New Mexico

Attention: Daniel S. Nutter

Re: Concerning Docket No. 7-69 K 4072
Application of Pennzoil United, Inc.
for dual completion.
Eddy County, New Mexico

Dear Sir:

Exhibit 6 should show top of cement on 9 5/8" intermediate casing to be located 2,750.

Sorry for the inconvenience we have caused you.

Yours very truly,

PENNZOIL UNITED, INC. Weştern Division

Rodney C. Boyd Petroleum Engineer

RCB/tb



OIL CONSERVATION COMMISSION

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

March 12, 1969

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY DIRECTOR

ir. James M. Durrett, Jr.	Re:	Case No. 4072 Order No. R-3702
Ar. James M. Buller & Durrett Rhodes, McCallister & Durrett		Applicants
Attorneys at Law		Pennzoil United, Inc.
500 Oak N. E. Albuquerque, New Mexico 87106		

Dear Sir:

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

very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir Copy of order also sent to: Hobbs OCC x Artesia OCC x Aztec OCC_____ Other____

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE No. 4072 Order No. R-3702

APPLICATION OF PENNZOIL UNITED, INC., FOR A DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 5, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of March, 1969, 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, Pennzoil United, Inc., seeks authority to complete its Mobil "12" Federal Well No. 1, located in Unit B of Section 12, Township 23 South, Range 26 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from an undesignated Morrow gas pool through parallel strings of 2 3/8-inch tubing, with separation of the zones by a packer set at approximately 11,345 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

CASE No. 4072 Order No. R-3702

IT IS THEREFORE ORDERED:

(1) That the applicant, Pennzoil United, Inc., is hereby authorized to complete its Mobil "12" Federal Well No. 1, located in Unit B of Section 12, Township 23 South, Range 26 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from an undesignated Morrow gas pool through parallel strings of 2 3/8—inch tubing, with separation of the zones by a packer set at approximately 11,345 feet;

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 Shut-In Pressure Test Period for the undesignated Morrow gas pool.

(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

DAVID F. CARGO, Chairman

ATEX J. ARHIJO, Member

A. L. PORTER, Jr., Member & Secretary

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 5, 1969

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 Elvis A. Utz, Alternate Examiner:

- CASE 4071: Application of T. J. Sivley for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Federal Silver Well No. 4 located in the SW/4 SE/4 of Section 28, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers Pool, in such a manner as to permit production of oil from the Yates-Seven Rivers formations and the disposal of produced salt water into the Lower Seven Rivers formation.
- CASE 4072: Application of Pennapil United, Inc., for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Gual completion (conventional) of its Mobil "12" Federal Wall No. 1 located in Unit B of Section 12, Township 23 South, Range 26 East, Eddy County, New Mexico, in such a manner as to permit the production of gas from an undesignated Atoka gas pool and gas from an undesignated Morrow gas pool through parallel strings of tubing.
- CASE 4073: Application of Standard Oil Company of Texas for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Continental State Well No. 1 located in Unit B of Section 5, Township 24 South, Range 38 East, Stateline-Ellenburger Pool, Lea County, New Mexico, in such a manner as to permit production of oil from the Ellenburger formation through tubing and the disposal of produced salt water into the Queen, San Andres, Glorieta, Tubb, Drinkard, and Mississippian formation through the casing-casing annulus in the open-hole interval from 4105 feet to 8980 feet.
- CASE 4067: (Continued from the February 26, 1969 Examiner Hearing)

Application of Benson-Montin-Greer Drilling Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the La Plata-Gallup Pool, San Juan County, New Mexico, including a provision for 160-acre spacing and proration units. Applicant further requests that said special rules provide that the unit allowable for a 160-acre unit in said pool be allocated on the basis of four times the normal unit allowable for Northwest New Mexico, and that no credit be given for depth factors. Applicant further requests that said special rules be limited in their application to the exterior boundaries of the La Plata-Mancos Unit Area.

- CASE 4074: Application of Benson-Montin-Greek Drilling Corporation for a pressure maintenante project, San Juan County, New Mexico. Applicant, in the ablee-styled cause, seeks authority to institute a pressure maintenance project by the injection of water into the Gallup formstion in its La Plata Mancos Unit Well No. 1 located in Unit P of Section 31, Township 32 North, Range 13 West, and by the injection of gas into said Gallup formation in its La Flata Manaos Unit Well No. 4 located in Unit N of said Section 31, La Plata-Gallup Pool, San Juan County, New Mexico. Applicant, further seeks the promulgation of special rules governing the operation of said project.
- CASE 4075: Application of Benson-Montin-Green Drilling Comporation for amendment of the la Plata Mancos Unit Agreement, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks to amend the form of the La Plata Mancos Unit Agreement, San Juan County, New Mexico, with respect to Sections 11 and 12 of said unit agreement, to permit inclusion in the participating area of any and all lands necessary for unit operations.
- CASE 4076: Application of American Trading and Production Corporation for the creation of a new pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Morrow gas pool for its Southeast Lea Unit Well No. 2 located in Unit L of Section 25, Township 20 South, Range 35 East, Lea County, New Mexico.
- CASE 4065:
 - Application of Humble Oil & Refining Company for the creation of a new oil pool, assignment of discovery allowable, and the promulgation of pool rules, lea County, New Mexico. Applicant, in the above-styled cause, seeks to have its New Mexico State "S" Water Source Well No. 4 (CF-427), located at an unorthodox oil well location 650 feet from the West line and 175 feet from the South line of Sestion 2, Township 22 South, Range 37 East, Lea County, New Mexico, reclassified as an oil well for the production of oil from the San Andres formation. Applicant further seeks the creation of a new San Andres oil pool for said well and the assignment of an oil discovery allowable of approximately 21,190 barrels to said well. Applicant further seeks the promulgation of special rules for said pool, including a provision for 80-aske provation units.

CASE 4066: (Continued from the February 26, 1969 Examiner Hearing)

Application of Humble Oil & Refining Company for the consolidation of two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard 320-acre gas proration units into one standard 640-acre unit comprising all of Section 26, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its New Mexico State "G" Wells Nos. 2 and 4 located in Units P and G, respectively, of said Section 26. Applicant further seeks authority to produce the allowable assigned to said unit from either of said wells in proportion.

RHODES, Mc CALLISTER & DURRETT ATTORNEYS AT LAW

JERRY P. RHODES
ORVILLE C. MCCALLISTER, JR.
J. M. DURRETT, JR.

Case 4072

500 OAK, N E
(CORNER ROMA AND INTERSTATE 25)
ALBUQUERQUE, NEW MEXICO 87106
TELEPHONE 243-9744

February 12, 1969

Mr. Dan Nutter Chief Engineer New Mexico Oil Conservation Commission Santa Fe, New Mexico

Re: Pennzoil United, Inc.
Mobile "12" Federal Well No. 1

Ita, place file in Pennyail care

Dear Dan:

During our recent telephone conversation I believe that you asked me for a copy of the drill stem data concerning the above well. I did not attach this to the application, but I am enclosing a copy for your information and so you may place the same inthe file.

Thank you very much for your assistance.

Very truly yours,

(X)

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Rhodes, McCallister & Durrett

By J. M. Durrett, Jr.

JMD:dn

encl.

00000 2-2069

Case 4072.

PENNZOIL UNITED, INC. MOBIL "12" FEDERAL NO. 1 660 FNL & 1980 FEL Sec. 12, T-23-S, R-26-E Eddy County, New Mexico RECEIVED O. S. HITESIA. HEN HEN LOS

DST #1 10,066 - 10,114': used 2,000' WB - 15" pre-flow, WBTS 10", GTS 13" on 1" ck of 10,066 - 10,114': used 2,000' WB - 15" pre-flow - S.I. 1 hr ISIP - opened of 15" pre-flow - S.I. 1 hr ISIP - opened of 15" pre-flow - S.I. 1 hr ISIP - opened 35" on 7 to 10,000 MCFGPD @ end of 15" pre-flow - S.I. 1 hr - re-opened 6 hrs - flwd on 1" ck w/370# press. @ rate of 9,750 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# press. @ rate of 8.000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd on 5/8" ck w/820# p tool | hr - Fivid 25 min on |" ck w/3/0# press. @ rate of 9,750 MCFGPU, then fivid 35" on 5/8" ck w/820# press. @ rate of 8,000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - fivid on 5/8" ck w/820# press. @ rate of 8,000 MCFGPD - 200 MCFGPD + then fivid 3 1/2 hrs on 1/2" ck w/1400# pressure @ rate of 9,750 MCFGPU, then fivid 3 1/2 hrs on 1/2" ck w/1400# pressure @ rate of 9,750 MCFGPU, then fivid 35" DRILL STEM DATA: on 5/8" ck W/820# press. @ rate of 8,000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd 3 1/2 hrs on then flwd 3 1/2 hrs on then flwd 3 1/2 hrs on 1/2" ck W/1400# pressure @ rate of 9,200 MCFGPD, then flww was stabilized - Oil 2 1/2 hrs on 1/2" ck W/1400# pressure @ rate of 6,600 MCFGPD. The 6 hr flow was stabilized - Oil 2 1/2 hrs on 3 1/2 hr neriod was 16 hbls 66 grav. no wtr - Oil rec for 3 1/2 hr neriod was 16 hbls 66 grav. no wtr - Oil rec for 3 1/2 hr neriod was 16 hbls 66 grav. 3/8" ck w/2,000# pressure @ rate of 6,600 MCFGPD. The 6 hr flow was stabilized - 0il rec for 3 1/2 hr period was 16 bbls 66 grav, no wtr - 0il rec for 3 1/2 hr period was 16 bbls 66 grav, no wtr - 1FP 1257# - FFP 150i# - 1 hr 1SIP 5927# 23 bbls of 66 grav, no wtr - S.I. 11 1/2 hr FSIP. - 1FP 889# - FFP 2848# - 1 hr 1SIP 5927# flow - 1FP 1.000# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - FFP 1539# - 6 hr 3rd flow - 1FP 1.00# - 1 23 bbls of 66 grav, no wtr - S.I. 11 1/2 hr FSIP. - IFP 1257# - FFP 1501# - 1 hr ISIP 5927# 160w - IFP 1,000# - FFP 1539# - 6 hr 3rd flow - IFP 889# - FFP 2848# - 1 hr 1200 - Sample 1 hr 2nd SIP 5901# - 11 1/2 hr FSIP 5888# - HPI 6414# - HPO 6427# - BHT 1200 - Sample chamber cont. 25 CFG & 80 cc nil - P.O. Small amount GCM Inr and SIR SOUTH - 11 1/2 nr roir SOUSH - nri O414H GCM chamber cont. 25 CFG & 80 cc oil - R.O. small amount GCM

DST #2 10,377 - 10,405': used 2500' WB, 15" pre-flow, ad. blow, WBTS 14", GTS 15" - 1 hr 2nd flow on 1" ck, G.V. 5.5 MMCFGPD w/sli spray of dist. - 1 hr 2nd flow on 1" ck, G.V. 5.5 MMCFGPD - 2 hr 3rd S.I. - 2 hr 4th flow, Ist S.I. - 2 hr 3rd flow 1/2" ck, G.V. 1.99 MMCFGPD - 2 hr 3rd S.I. - 3 hr FSIP - Sample S.I. - 2 hr 3rd flow 1/2" ck, G.V. 1.99 MMCFGPD - 2 hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - Sample S.I. - 2 hr 3rd flow 1/2" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - Sample S.I. - 2 hr 3rd flow 1/2" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - Sample S.I. - 2 hr 3rd flow 1/2" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr FSIP - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 1" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck. G.V. 4 MMCFGPD - 3 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 hr on 3/4" ck. G.V. 5.5 MMCFGPD - 2 h S.I. - 2 hr 3rd flow 1/2" ck, G.V. 1.99 MMCFGPD - 2 hr 3rd S.I. - 2 hr 4th flow, 1st sample hr on 1" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck, G.V. 4 MMCFGPD - 3 hr FSIP - ISIP hr on 1" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck, G.V. 4 hr in 6569# - HPI 6569# - 2nd flow 579# - 3rd chamber cont. 3.5 CFG, 80cc 0&GCM w/2,000# pressure - HPI 6569# - 2nd flow 579# - 3rd S.I. 5550# - FSIP 5564# - IF 1054# - 2nd flow 579# - 3rd S.I. 5550# - 5564# - 3rd S.I. 5564# - 3rd S.I. 5550# - 5564# - 3rd S.I. 5664# - 3rd S.I. 5664# - 3rd S.I. 5664# - 3rd S.

DST #3 10,424 - 10,516': 15" pre-flow, strong blow 5" & died - have hole in drill pipe or tool gave away - Rleeding off press since 5.00 AM - Pren to come out of hole -USI #3 10,424 - 10,516: 15" pre-TIOW, strong DIOW 5" & died - have hole in drill or tool gave away - Bleeding off press since 5:00 AM - Prep to come out of hole - Tool failed to open - Now coming out of hole without tool flow 550# - FF 761#

DST #4 10,419 - 10,518': 20" pre-flow, no blow - IF 1118# - FF 1099# - 1 hr ISIP 1265# - 1 hr FSIP 1136# - BHT 1760 - HPI 6698# - 1 hr FSIP 1136# - BHT 1760 - HPI 6698# - 1 hr FSIP 1136# - BHT 1760 - HPI 6698# - 1 hr FSIP 1136# - BHT 1760 - HPI 6698# - Sample chamber cont 100# press no HPO 6683# - rec. 2.000' WB. no das. oil or wtr - Sample chamber cont 100# press no HPO 6683# - rec. 2.000' WB. no das. Tool failed to open - Now coming out of hole w/test tool

tool open Z nrs, no blow - If 1099% - If 1118% - I nr 1519 1135% - BHI 176% - HPI 669 HPO 6683% - rec. 2,000' WB, no gas, oil or Wtr - Sample chamber cont. 100% press, no fluid - no gas fluid - no gas

DST #5 10.838 - 10.896': ran 2,000 WC - 15" pre-flow, gd. blow - 1 hr ISIP - GTS 55" Now clean-after closing tool for ISIP - tool has been open 3 hrs. WCTS 1 hr 45 min - Now clean-DST #5 10.838 - 10.896': ran 2.000 WC - 15" pre-flow, gd. blow - 1 hr ISIP - GTS 55" now clean-garden to 1 lists - 1001 has been open 3 hrs, with 1 hr 45 min - Now clean-garden to 1 lists - 1001 has been open 3 hrs, with 1 hr 5 min - reopened 2 hr 5 min to 2 hr 5 min - reopened 2 hr 5 min to 2 h

DST #6 11,257 - 11,284': tool open 2 hrs 15 min - fair blow, GTS 1 hr 45 min-TSTM - IF 133 rec. 2500' WB-Sli gas cut & 330' SGCOM - 1 hr ISIP 6091# .. 3 hr FSIP 5041# - IF 133 $\frac{231-11,284}{NB-51i}$ tool open 2 nrs 15 min - Tair Diow, GIS 1 nr 45 min-151M - IF 1339# - $\frac{NB-51i}{NB-51i}$ gas cut & 330' SGCDM - 1 hr ISIP 6091# .. 3 hr FSIP 5041# - IF 1339# - $\frac{NB-51i}{NB-51i}$ gas cut & 330' SGCDM - 1 hr ISIP 6091# .. 3 hr

FF 1560# - HPI & HPO 7136# rec. 2500'

Pennzoil United, Inc. Mobil "12" Federal No. 1 Eddy County, New Mexico page 2

DST #7 11,434 - 11,465': used 2,000' MB, 10" pre-flow, weak to gd blow - 1 hr ISIP - reopened tool 2 hrs - GTS 2", WBTS 25" - unloaded MB - flwd 1st hr w/150# press on 1" reopened tool 2 hrs - GTS 2", WBTS 25" - unloaded MB - flwd 1st hr w/150# CK - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - volume 200 MCF - rec. reopened tool 2 hrs - flwd 2nd hr w/255# press on 1/2" ck - flwd 2nd hr w/255# p DRILL STEM DATA - continued:

DST #9 12,623 - 12,646': tool open 2 hrs 15 min , weak blow-decr. - rec. 10' drlg. fluid - res. 0.1 @ 600, 82,000 ppm - 1 hr ISIP 675# - 2 hr FSIP 731# - IF 5# - FF 8# - HPI & HPO 6045# RHT 214 degrees DST #8 11,491 - 11,517'pkrs failed after 5 minutes.

DST #10 12.650 - 12.720': tool open 2 hr 40 min , fair blow w/GTS 15", decr. to weak @ 2160 cc sulf. wtr, end of test-TSTM - rec. 3250' sulf. wtr - Sample chamber cont. no gas, 2160 cc sulf. wtr, end of test-TSTM - rec. 3250' sulf. wtr - Sample 37,000 ppm - HPI & HPO 6047# - 90 min ISIP 21,000 ppm chlorides - drill pipe wtr sample 37,000 ppm - HPI & HPO 6047# - 2 1/2 2nd flow 980# - 21,000 ppm chlorides - drill pipe wtr sample 37,000 ppm - HPI & 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 3465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 Ar 5465# - 90 min 2nd SIP 5465# - 9 60 min FF 1390# - BHT 216 degrees

G. S. C. L. S. J. D. S. J. R. L. J. C. O. S. J. R. L. J. L. J. C. O. S. J. R. L. J. C. J. R. L. J. L. J. C. J. R. L. J. L. J.

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Pennzoil United, Inc.
Acreage dedicated to
Mobil "12" Federal #1

Superior Oil Company P. O. Box 1900 Midland, Texas 79701

Texas Oil & Gas Corp.
900 Wilco Building
Midland, Texas 79701

Pan American Petr. Corp.
P. O. Box 1540
Midland, Texas 79701

Pennzoil United, Inc./
P. O. Drawer 1828
Midland, Texas 79701

PERNZOIL EXHIBIT 1 CASE 4072

SUBMIT IN DUPLE LE* Form approved. Budget Bureau No. 42-R355.5. UNITED STATES (Secother In-structions on reverse side) DEPARTMENT OF THE INTERIOR PEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY NM 027994 - D6. IF INDIAN. ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 1a. TYPL OF WELL; GAS X T. UNIT AGREEMENT NAME DRY Other b. TYPE OF COMPLETION: NEW WELL WORN DEED DEED BACK BESVR. Other S. FARM OR LEASE NAME 2. NAME OF OPERATOR Mobil "12" Federal 9, WELL NO. Pennzoil United, Inc. 3. ADDRESS OF OPERATOR P. O. Drawer 1828 - Midland, Texas 79701 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location elearly and in accordance with any State requirements). Wildcat 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 660 FNL & 1980 FEL of Section 12, T-23-S, R-26-E Section 12, T-23-S, At top prod. interval reported below R-26-E At total depth 12. COUNTY OR 14. PERMIT NO. 13. STATE Eddy N. M. 16. DATE T.D. REACHED | 17. DATE COMPL. (Ready to prod.) 15. DATE SPUDDED ELEV. CASINGBEAD 18. ELEVATIONS (DY, EKB, RT, GE, ETC.)* 6-29-68 11-1-68 11-25-68 3257 RKB 3238 ROTARE TOOLS CABLE TOOLS 20. TOTAL DEPTH, MD & TVD 21. PLUG. BACK T.D., MD & 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY None 12,735 11,822 24. PRODUCING INTERVAL(S), OF THIS COMPLETION TOP, BOTTOM, NAME (MD AND TVD) WAS DIRECTIONAL SURVEY MADE 10,842 - 10,868 Atoka 110 26. TYPE ELECTRIC AND OTHER LOGS RUN WAS WELL CORED Gamma Ray-Sonic, IES, SNP No CASING RECORD (Report all strings set in well) CASING SIZE CEMENTING RECORD WEIGHT, LE./FT. DEPTH SET (MD) HOLE SIZE AMOUNT PELLED 13 3/8" 359 17 1/2 48# 350 sx None 9 5/8" 36# & 40# 5270 12 1/4 800 sx None 29# 11850 8 3/4 675 sx None LINER RECORD TUBING RECORD 10,792 SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) PACKER SET (MD) 2 3/8" None 10,792 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Perf. one hole at following depths: DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 10,842 - 10,868 10,500 gallons actd 10,842,843,847,848,855,856,862,864,866,868 PRODUCTION 33.* DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of Flowing (See N.M. Form C-122 attached) 11-25-68 DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD 5 12-6-68 Various FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE None 2,625 None' 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Peck Harden Vented - Now negotiating for sale 35. LIST OF ATTACHMENTS DST Data, Logs, Hole Deviation, 4-point test (N.M. Form C-122) 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available record Town HILE Manager of Production SIGNED Startely

*(See Instructions and Spaces for Additional Data on Reverse Side)

FENNE OIL CKAIBIT 2

NS2 4272.

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Item 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency,

FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.		тор		
				NAME	MEAS. DEPTH	TRUE VERT. DEPT	
			See DST information attached.	Lamar Lime Delaware Sand Bone Spring Wolfcamp L/Wolfcamp Strawn Atoka Morrow L/Morrow Barnett L/Mississippian Woodford Devonian	1,855 1,985 5,225 8,685 9,812 10,380 10,610 11,028 11,242 11,810 12,318 12,552 12,638		

U.S. GOVERNMENT PRINTING OFFICE: (963-O-683636

(Rev. 5-63)		UN: TED	STATES	SUBMIT I	N DUPL C	į l	Form approved. Budget Bureau No. 42-R355,5.
	DEPAR	TMENT OF	THE IN	TERIOR	(Secotion struction textsec	hs one	SIGNATION AND SERIAL NO.
		GEOLOGICA	L SURVEY		,	į.	994 - D
		OR RECON	APLETION F	REPORT A	ND LOG	* 6. IF INDIAN	, ALLOTTEE OR TRIBE NAME
18. TYPE OF WEL	WE	LL GAS WELL D	ter []	Other	.,	7. UNIT AGE	EEMENT NAME
NEW SELL (3)	PLETION:	e- [] Fred [DEF.	Other		S. FARM OR	LEASE NAME
2. NAME OF OPERAT		L.J RWA L.	1 16884. ()	THE CONTRACT OF STREET			"12" Federal
		i <mark>zoil</mark> United	, Inc.			9. WELL NO.	
3. ADDRESS OF OPER) - Design 19	20 - Midler	nd Toyac	70701	10. FIELD A	ND FOOL, OR WILDCAT
4. LOCATION OF WEE	u. (Report locati	on clearly and in a	ccordance with an	y State requireme	inte)*	Wildca	
At surface 6	60 FNL & 1	1980 FEL of	Sec. 12, T-	-23-S, R-26	6-E	11. SFC., T., OR AREA	R., M., OR BLOCK AND SURVEY
At top prod. into	erval reported be	dow					on 12, Township 23-S,
At total depth						Range	
			14. PERMIT NO.	DAT	E ISSUED	12. COUNTY PARISH	
15. DATE SPUDDED	16. DATE T.D. I	REACHED 17. DATE	COMPL. (Ready to	o prod.) [18 E1	EVATIONS (DF.	Eddy	N. M.
6-29-68	11-1-68		1-8-69		3257' RK	(B	3238'
20. 10TAL DEPTH, MD	8 TVD 21. PLU	G, BACK T.D., MD & T	HOM 3		23. INTERVENIEL	50 BY .	1
12,735 1 24. PRODUCING INTER	VAL(S), OF THIS	11,822'		ual dd and tyd)*		- A11	25. WAS DIRECTIONAL SURVEY MADE
26. TYPE ELECTRIC A	453 - 11,	39' Morrow	<i>y</i>				NO 27. WAS WELL CORED
ZO. IIID BBBCINIC A	OTTOM INVO						No
28.			NG RECORD (Rep				
CASING SIZE	WEIGHT, LB.	FT. DEPTH SET	(MD) HO	LE SIZE	CEME	NTING RECORD	AMOUNT PULLED
	_						
		(SEE A	TOKA COMPL	ETION)			
29.	•	LINER RECORD			30.	TUBING REC	ORD
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (Mb)	SIZE	DEPTH SET (N	
	None						
31. PERFORATION REC	ORD (Interval, s	ize and number) _	f 1 hala	d 32.	ACID SHOT I	FRACTURE, CEMEN	T SOILEEZE ETC
following de		1	of. 1 hole 163.473.475	٩		·	ND OF MATERIAL USED
11503,505,50			,,	11,453 -	11,539		cid and 20,000
						gals "Mod I	3rine"
						7	
33.* DATE FIRST PRODUCT	ION I PROI	UCTION METHOD (F		DUCTION	I tune of summ		ETATUS (Brodusino or
11-11-68	İ	lowina (See		nı C-122 at			STATUS (Producing or (t-in) Shut-in
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR	OIL—BBL.	GAS-SICE	WATES-BB	GAS-OIL BATIO
1-20-69	7	Various		<u> </u>	٠.		7
FLOW. TUBING PRESS.	CASING PRESSU	24-HOUR RATE	OIL-BBL.	3,31	,	None S	None
Various 34. Disposition of G	as (Sold, used jo	r fuel, vented, etc.)		1 3931	<u> </u>	AEST MILES	SSED BY
Yente	ed - Now n	egotiating r	for sale				
4-point tes	that the forego	orm C-122) I	Packer leak formation is comp	age test	as determined	from all available	tecologia 3
SIGNED A	1/1/1	Deam	TITLE	Manager of	Product	ion DAT	1-30-69
	*(Se	e Instructions ar	nd Spaces for A	Additional Da	ta on Revers	ie Side)	N2005

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shewn below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached bereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.		То	тор	
				NAME	MEAS, DEPTH	TRUE VERT. DEPT	
			SEE ATOKA COMPLETION				
X , -							
					-		

PENNZOIL UNITED, INC.

MOBIL "12" FEDERAL NO. 1

660 FNL & 1980 FEL Sec. 12, T-23-S, R-26-E Eddy County, New Mexico



DRILL STEM DATA:

DST #1 10,066 - 10,114': used 2,000' MB - 15" pre-flow, MBTS 10", GTS 13" on 1" ck w/380# press. @ rate of 10,000 MCFGPD @ end of 15" pre-flow - S.I. 1 hr ISIP - opened tool 1 hr - Flwd 25 min on 1" ck w/370# press. @ rate of 9,750 MCFGPD, then flwd 35" on 5/8" ck w/820# press. @ rate of 8,000 MCFGPD - S.I. 1 hr - re-opened 6 hrs - flwd 2 1/2 hrs on 1/2" ck w/1400# pressure @ rate of 9,200 MCFGPD, then flwd 3 1/2 hrs on 3/8" ck w/2,000# pressure @ rate of 6,600 MCFGPD. The 6 hr flow was stabilized - 0il rec. for 2 1/2 hr period was 16 bbls 66 grav, no wtr - 0il rec for 3 1/2 hr period was 23 bbls of 66 grav, no wtr - S.I. 11 1/2 hr FSIP. - IFP 1257# - FFP 1501# - 1 hr 2nd flow - IFP 1,000# - FFP 1539# - 6 hr 3rd flow - IFP 889# - FFP 2848# - 1 hr ISIP 5927# 1 hr 2nd SIP 5901# - 11 1/2 hr FSIP 5888# - HPI 6414# - HPO 6427# - BHT 1200 - Sample chamber cont. 25 CFG & 80 cc oil - R.O. small amount GCM

DST #2 10,377 - 10,405': used 2500' WB, 15" pre-flow, ad. blow, WBTS 14", GTS 15" - 1 hr ISIP - 1 hr 2nd flow on 1" ck, G.V. 5.5 MMCFGPD w/sli spray of dist. - 1 hr 2nd S.I. - 2 hr 3rd flow 1/2" ck, G.V. 1.99 MMCFGPD - 2 hr 3rd S.I. - 2 hr 4th flow, 1st hr on 1" ck, G.V. 5.5 MMCFGPD - 2nd hr on 3/4" ck, G.V. 4 MMCFGPD - 3 hr FSIP - Sample chamber cont. 3.5 CFG, 80cc 0&GCM w/2,000# pressure - HPI 6569# - HPO 6532# - ISIP 5583# - 2 nd SI 5510# - 3rd S.I. 5550# - FSIP 5564# - IF 1054# - 2nd flow 579# - 3rd flow 550# - FF 761#

<u>DST #3 10,424 - 10,516': 15"</u> pre-flow, strong blow 5" & died - have hole in drill pipe or tool gave away - Bleeding off press since 5:00 AM - Prep to come out of hole - Tool failed to open - Now coming out of hole w/test tool

DST #4 10,419 - 10,518': 20" pre-flow, no blow - IF 1118# - FF 1099# - 1 hr ISIP 1265# - tool open 2 hrs, no blow - IF 1099# - FF 1118# - 1 hr FSIP 1136# - BHT 1760 - HPI 6698# - HPO 6683# - rec. 2,000' WB, no gas, oil or wtr - Sample chamber cont. 100# press, no fluid - no gas

DST #5 10,838 - 10,896': ran 2,000 WC - 15" pre-flow, gd. brow - 1 hr ISIP - GTS 55" after closing tool for ISIP - tool has been open 3 hrs, WCTS 1 hr 45 min - Now cleaning up - Flwg. 1.9 MMCF plus WC & gd spray of dist. - S.I. for 2 hr SIP - reopened 2 hrs - Gas 0 rate of 2.9 MMCFGPD, decr. to 2.3 MMCFGPD 0 end of test on 1" ck - 3 hr FSIP - rec. 710' WC & 180' WCØM - Sample chamber cont. 300# press, 1.95 CFG & 240cc drlg. fluid - 15" pre-flow press - IF 1045# - FF 1026# - 1 hr ISIP 5170# - 4 1/4 hr 2nd flow, IF 1045# - FF 916# - 2 hr SIP 5170# - 2 hr 3rd flow, IF 768# - FF 695# - 3 hr FSIP 5170# - HPI 6919# - HPO 6864# - BHT 1860

DST #6 11,257 - 11,284': tool opin 2 hrs 15 min - fair blow, GTS 1 hr 45 min-TSTM - rec. 2500' WB-sli gas cut & 330' SGCØM - 1 hr ISIP 6091# - 3 hr FSIP 5041# - IF 1339# - FF 1560# - HPI & HPO 7136#

PENNZOIL EXHIBIT 4 CASE 4072 Pennzoil United, Inc. Mobil "12" Federal No. 1 Eddy County, New Mexico Page 2

DRILL STEM DATA - continued:

DST #7 11,434 - 11,465': used 2,000' WB, 10" pre-flow, weak to gd blow - 1 hr ISIP - reopened tool 2 hrs - GTS 2", WBTS 25" - unloaded WB - flwd 1st hr w/150# press on 1" ck - volume 1,415 MCF - flwd 2nd hr w/255# press on 1/2" ck - volume 1200 MCF - rec. 620' WB & 300' GC0M - 10" pre flow - IF 860# - FF 1108# - 1 hr OSIP 5071# - 2 hr IF 1108# - FF 961# - 3 hr FSIP 4870# - HPI 7265# - HPO 7226# BHT 190°

DST #8 11,491 - 11,517'pkrs failed after 5 minutes.

DST #9 12,623 - 12,646': tool open 2 hrs 15 min , weak blow-decr. - rec. 10' drlg. fluid - res. 0.1 @ 60° , 82,000 ppm - 1 hr ISIP 675# ~ 2 hr FSIP 731# - IF 5# - FF 8# - HPI & HPO 6045# BHT 214 degrees.

DST #10 12,650 - 12,720': tool open 2 hr 40 min , fair blow w/GTS 15", decr. to weak @ end of test-TSTM - rec. 3250' sulf. wtr - Sample chamber cont. no gas, 2160 cc sulf. wtr, 21,000 ppm chlorides - drill pipe wtr sample 37,000 ppm - HPI & HPO 6047# - 90 min ISIP 5465# - 90 min 2nd SIP 5440# - 2 1/2 hr FSIP 5478# - 10" IF 342# - 2 1/2 2nd flow 980# - 60 min FF 1390# - BHT 216 degrees

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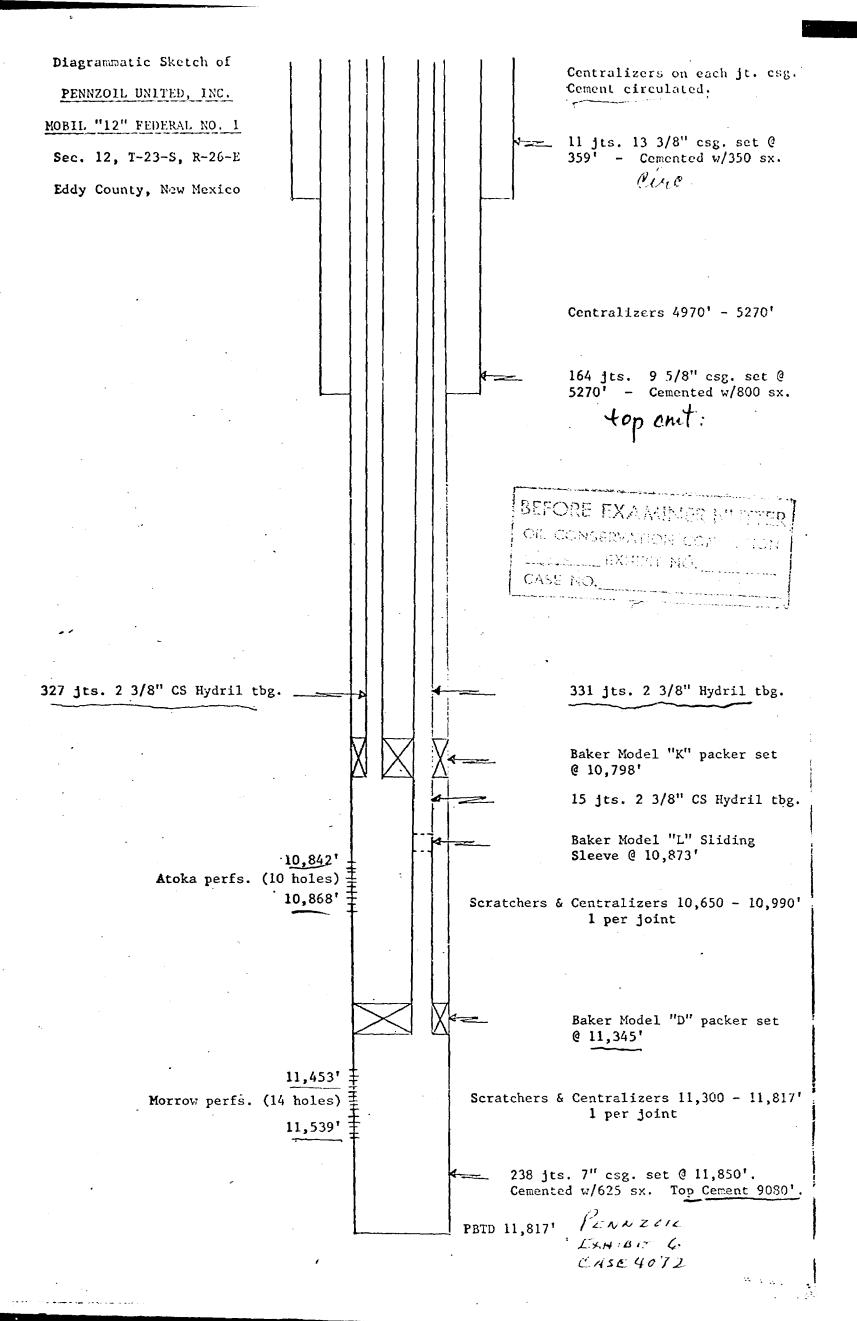
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PENNZOIL UNITED, INC.
MOBIL "12" FEDERAL NO. 1
Section 12, T-23-S, R-26-E
Eddy County, New Mexico

DEVIATION RECORD

Degrees @	Depth	Degree	25	0 Depth
1/2 @	365'	3/4	6	7,535'
3/4 @	710'	7	9	7,977'
1 @	990'	1	(j	9,465'
1 3/4 @	1,150'	1	6	10,114'
2 1/4 @	1,374'	2	6	10,516'
	1,520'	1 1/2	9	10,675
1 3/4 0	1,716'	1	9	10,884'
1 1/4 0	1,940'	1	9	11,200'
	3,070'	1	6	11,284'
1/4 @	3,675'	1 3/4	6	11,465'
	4,010'	1 3/4	6	11,762'
	4,203'	3/4	9	12,152'
3/4 @	4,910'	ו י	9	12,222'
2 1/4 0	5,464'	}	6	12,356'
2 @	5,907'	2 1/4	0	12,565'
3/4 @	7,131'	2 1/2	0	12,640'

I certify the above knowledge and belie	e information to be true a ef.	Rodney C. Boyd Petroleum Engineer
Subscribed and swo	rn to before me this 3rd	day of March 1969 Notable Public
My Commission Expi $6-1-69$		Midland County, Texas
,	GEFORE EN TOTAL	PERNZUIL EXNIBIT 5 CASE 4672



PACKER SETTING AFFIDAVIT

I, Leo C. Hagler , being of lawful age and having full Name of Party Making Affidavit	
knowledge of the facts hereinbelow set out do state:	
That I am employed by SCHLUMBERGER WELL SERVICES, A Division of Schlumberger Technology Corporation, in the capacity of Engineer	,
that on November 12 , 19 68 I personally supervised the setting of a	
Paker - Model D Packer in a well represented to us by Make and Type of Packer	
Pennzoil United, Inc. of Midland, Texas	
as being designated as follows:	
660' FNL & 1980' FEL Sec. 12, Well Mobil "12" Foderal #1 , Location T235, R26E	,
Field Wildcat , County Eddy	<u>;</u>
State of Texas, Land Owner Federal lands	,
Well Operator Pennzoil United, Inc.	
well Operatorremzoni united, inc.	,
at a subsurface depth of 11,345 feet, said depth measurement having been furnished	d
me by Peck Hardee, Jr Pennzoil United, Inc.	;
that the purpose of setting this packer was to effect a seal in the annular space between	
the two strings of pipe where the packer was set so as to prevent the commingling,	
the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer; that the make and type packer set was	,
adequate to effectively and absolutely seal off the annular space between the two str	ings
of pipe when it was properly set; and that this packer was properly set.	
PETODE TV & Less comments	
STATE OF TEXAS. U. Mary	
OIL CONSERVANCE CONSERVANCE CONSERVANCE	ACIÓN
COUNTY OF Town on the understand outbority on this de CASE NO UV appeared.	
Before me, the undersigned authority, on this day personally appeared	1/12
Leo Chasler , known to me to be the person whose name is subscri	bed
to this instrument, who after being by me duly sworn on oath, states that he has	
knowledge of all the facts stated above and that the same is a true and correct state	ment
of the facts therein recited.	
Lev C. Hagler	
Subscribed and sworn to before me on this the day of	
Notary Bublic in Cong	
My Commission Expires: 12-6.77 Perro 2016.	UM
EXAIBIT 8	
CASE 4077	

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This form is <u>not</u> to the used for reporting packer leakage tests In Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

PRINTERIA (FRANKIZ (CZZ MOG)

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator		.,	Leas			vell
Location	Unit	Sec	Twp	Rge	County	No. 1
of Well	1	17.	Type of Prod	Method of Prod		Choke Size
Upper	Name of Res	ervoir or Pool	(Oil or Gas)	Flow, Art Lift		
Compl Lower	ATOKA		<u>Ors</u>		.,:	10/03-1/03
	Joseph Com		AA.C	t.	Naga.	10/34-9/33
			FLOW TEST	NO. 1		
Both zon	es shut-in a	t (hour, date):	:00 fu	(13-2-0)	Upper	Lower
Well ope	ned at (hour	, date):	10:00 %	(12	Completion	n Completion
Indicate	by (X) th	e zone producin	g	• • • • • • • • • • • • • • • • • • • •	<u>X</u>	
Pressure	at beginnin	g of test	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	4000	3888
Stabiliz	ed? (Yes or	No)	• • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	YES	Yes
Maximum	pressure dur	ing test	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	<u>4060</u>	3566
Minimum	pressure dur	ing test			2900	3588
Pressure	at conclusi	on of test	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • •	<u>341</u> 2	3.000
Pressure	change duri	ng test (Maximu	m minus Minimum)	• • • • • • • • • • • • • • • • • • • •	1150	
Was pres	sure change	an increase or	a decrease?			<u> </u>
Well clo	sed at (hour	, date): <u>5:</u>	00 PH	Total Ti Producti	me On .on7.0_	HR S
Oil Prod	uc tion		Gas Pro	duction Test <u>1038.9</u>		
Woll one	and at Chour	data).	FLOW TEST		Upper Completio	
			9:30 A/ (1 2	2-7-66)	Upper Completion	n Completion
Indicate	by (X)	the zone produc	9:30 Ab (12	?-7-66)	Completion	n Completion
Indicate	by (X)	the zone produc	9:30 Av (12	2-7-68)	Completion	n Completion
Indicate Pressure Stabiliz	by (X) at beginnin ed? (Yes or	the zone producing of test	9:30 Av (12	<u>-7-68)</u>	Completion 4000	n Completion X 3090 YES
Indicate Pressure Stabiliz Maximum	by (X) at beginnin ed? (Yes or pressure dur	the zone producing of test No)	9:30 Av (12	-7-66)	Completion 4000 4000 4000	N Completion
Indicate Pressure Stabiliz Maximum Minimum	by (X) at beginnin ed? (Yes or pressure dur pressure dur	the zone producing of test No) ing test	9:30 Av (12	(-7-68)	Completion 4060 4060 4060 4060	N Completion X 3090 YES 3890 2102
Indicate Pressure Stabiliz Maximum Minimum Pressure	at beginning ed? (Yes or pressure dur pressure dur at conclusion	the zone producing of test No) ing test cing test on of test	9:30 Av (12	(-7-66)	Completion 4060 4060 4060 4060 4060	N Completion X 3090 YES 3890 2102 5109
Indicate Pressure Stabiliz Maximum Minimum Pressure Pressure	by (X) at beginning ed? (Yes or pressure dur pressure dur at conclusion change dur	the zone producing of test No) ring test con of test ang test (Maximus	9:30 Av (12 ing.	(-7-68)	Completion 4060 4060 4060 4060 4060	N Completion
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SOUTHEAST NEW MEXICO PAGER LEAVING TEST INSTRUCTIONS

- 1. A packer leakage test shall be corrected on each multiply completed well within seven days after actual expliction of the well and armolly thereafter as prescribed by the order antherizing the multiple completion. Such tests shall also be commenced on all ruitiple completions within seven days following recompletion and or chestoal or tracture transact, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken as any time that communication in suspected or when requested by the consistion.
- 2. At least 72 hours prior to the convenient of any packer leakage test, the operator shall notify the corresponding of the exact time the test is to be convenied. Offset operators shall also be so notified.
- 3. The packer leavage test shall direction when both zeros of the dual completion are whent-in for ricesour stabilization. But zones shall remain shut-in until the well-head pressure in each has stabilized and for a minimum of two hours thereafter, provided however, that they reel not remain shut-in more than 21 hours.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued until the flowing willhead pressure has become stabilized and for a minimum of two hours thereefter, provided beaver, that the flow test need not continue for more than 24 hours.

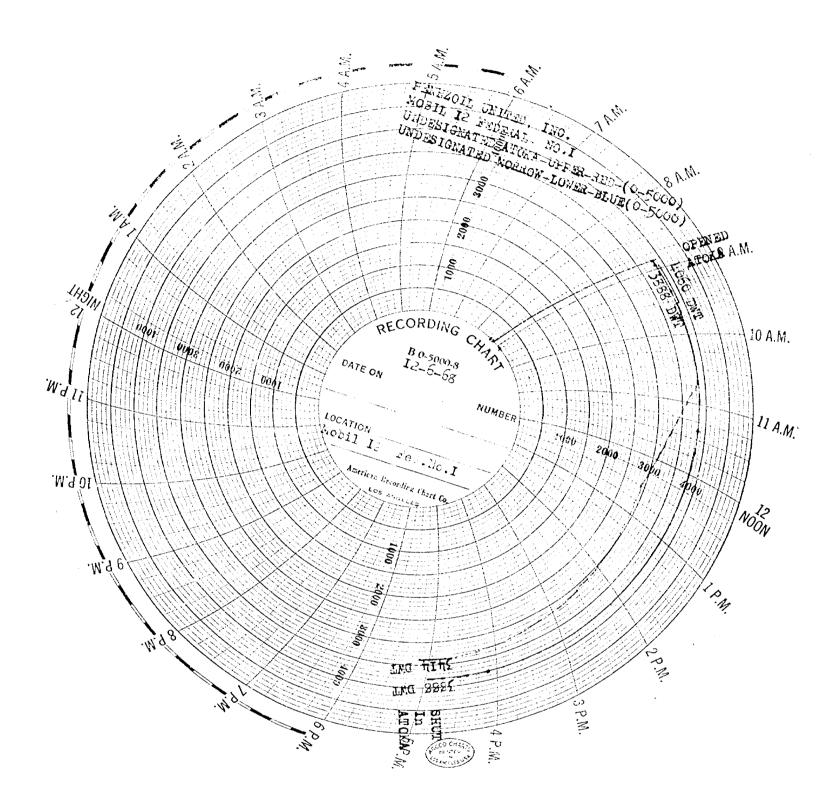
- 5. Following completion of Flow Test No. 1, the well shall as in, in accordance with Paragraph 3 above.
 - 6. How Test No. 2 shall be conducted even though no link according Flow Test No. 1. Procedure for Flow Test No. 2 as the last of Flow Test No. 1 except that the previously problem is one main shutsin while the previously shutsin zone is profiled.
 - 7. All pressures, throughout the entire test, shall be and the measured and recorded with recording pressure gauges, the abide must be checked with a deadweight tester at least to beginning and once at the end, of each flow test
- eginoing and once at the end, of each flow test

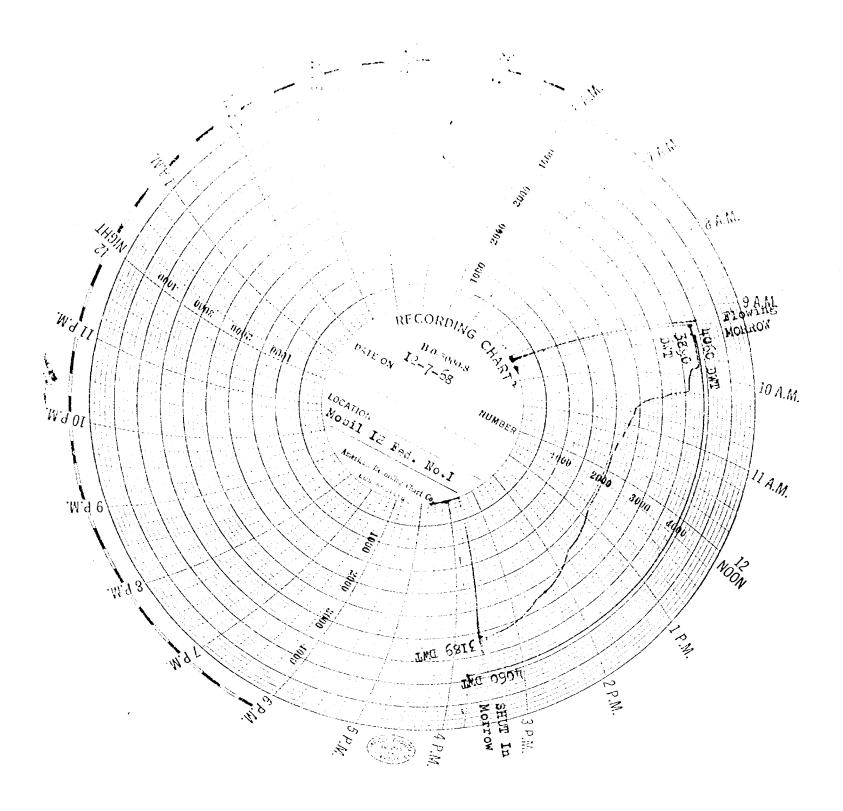
 8. The results of the above-described tests shall be filed so within 15 days after completion of the test. Instance of the like in the appropriate district Office of the New Mexico (II Concernity mission on Southeast New Mexico Packer Leakage list how Feet together with the original pressure recording assays shalts a deadweight pressures which were taken indicated thereon. It is deadweight pressures which were taken indicated thereon. It is time curve for each zone of each test, initiating the iero changes which way be reflected by the gauge chaits assignful to weight pressure readings which were taken. If the pressure is mitted, the original chart must be permanently filed in the office. Form C-116 shall also accompany the larger leakage less when the test period coincides with a gas-oil ratio test purit

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NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 Revised 9-1-65

														oner.				*** * * ***
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PHONE EXPRESS 3.3813
611 GRIMES
P O BOX 1829
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

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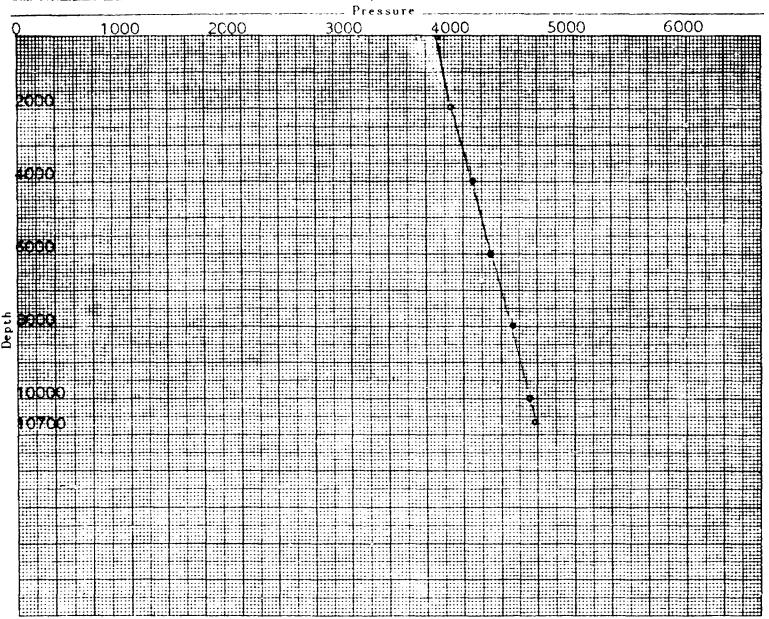
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PHONE EXPRESS 3-3813
611 GRIMES
P O BOX 1829
HOBBS, NEW MEXICO

BOUTOM HOLE PRESSURE RECORD

OPERATOR PENNZOIL UNITED, INC. FIELD WILDCAT FORMATION ATOKA LEASE MOBIL 12 FEDERAL WELL NO. 1	Depth Q	Pressure 3764	Gradient
COUNTY EDDY STATE NEW MEXICO	2000	3922	.079
DATE 12-4-68 TIME 5:00 PM	4000	4080	.079
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DEC 11 1968 NEERING COMPANY MIDEAND

P. O. BOX 1829

HOBBS. NEW MEXICO

OCCEURER 10, 1968

PENNIZOIL MNITED, INC. P. O. DRAWER 1828 LIDLAND, TEXAS

PF: CORIL 12 FEDERAL, MO.1 MNDESIGNATED ATOKA CAS 4-POINT PACK PRESSURE TEST & CAS AHALYSIS

GENTLEMEN:

IN COMPLIANCE WITH YOUR INSTRUCTIONS A 4-POINT BACK PRESSURE TEST MAS CONDUCTED AND A GAS SAMPLE TAKEN DURING THE FLOW PEROID. THE AGSOLUTE OPEN FLOW MAS CALCULATED TO BE 2625 MCF/B. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 1038.9 WITH 0.00 30/D AND THE SAMPLE YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

, o .	0.50
CARBON DIOXIDE - NITROGEN	0.63 0.60 0.00
OXYGEN HYDROGEM SULFIDE	0.00 96.45
METHANE	1.69 0.25
PROPAME ISO BUTANE NORMAL BUTANE	0.04 0.05
ISO PENTANE NORMAL PENTANE	0.02 0.02 0.05
HEXANE PLUS	100.00
CALCULATED SP. G. CALCULATED BTH SAT DRY CALCULATED BTH SAT WET	0.5759 1021 1003

VERY TRULY YOURS

COLEMAN PETROLEUM ENG. CC.

JE A. COLEMAN

NEW MEXICO OIL CONSERVATION COMMSSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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FIGHE EXPRESS 3-3013
611 GRIMES
P. O. BOX 1829
HOBEIS, NEW MEXICO

BOTTOM HOLE PRESSURL RECORD

OPERATOR PENNZOIL UNITED, INC. FIELD, UNDESIGNATED FORMATION l'ORPOW LEASE MOBIL 12 FEDERAL WELL NO. 1 COUNTY EDDY STATE NEW MEXICO DATE 1-20-69 TIME 9:00 AM Status SHUT IN Fost depth 10700' Time S. 1184.0 HR\$ ast test date Tub Pre-3880 DWT HIR hist test - Cas. Pres DUAL BHP change - Elev. 3238'GL Fluid top None Datum (-8258') ** Water top None Temp. 4 185°F Run by WEAVER Cal. No. A3076N Chart No.	* Extra	Presser 3880 4056 4232 4408 4586 4764 4826 3258)4897* **	Gradient	S
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PHONE EXPRESS 3.3013
611 GRIMES
P O BOX 1829
HORBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

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OPERATOR PENHZOLL UNITED, INC. OPERATOR PENHZOLL UNITED, INC. FIELD UNDESIGNATED FORMATION MORROW LEASE MOBIL 12 FEDERAL WELL NO. 1 LEASE MORROW MEXICO COUNTY 1-20-69 TIME 5:00 PM 10700' STATE NEW MEXICO 10700' STATE NEW MEX	10000 4052 10700 4108	Gradient

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PHONE EXPRESS 3-3013

611 GRIMES

P. O. BOX 1829

HOBBS, NEW MEXICO

JANUARY 23, 1969

PENNZOIL UNITED, INC. P. O. DRAWER 1828 MIDLAND, TEXAS

RE: Mobil 12 Federal Undesignated Morrow Gas 4-Point Back Pressure Test

GENTLEMEN:

IN COMPLIANCE WITH YOUR INSTRUCTIONS A 4-POINT BACK

PRESSURE TEST WAS CONDUCTED AND THE ABSOLUTE OPEN FLOW POTENTIAL WAS CALCULATED TO BE 3310 MCF/D. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 1382.8 MCF/D WITH 0.00 BO/D. THE SAMPLE TAKEN ON A PREVIOUS TEST YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

CARBON DIOXIDE NITROGEN OXYGEN HYDROGEN SULFIDE METHANE ETHANE PROPANE ISO BUTANE NORMAL BUTANE ISO PENTANE NORMAL PENTANE HEXANES PLUS		1.08 0.13 0.00 0.00 96.11 1.87 0.28 0.05 0.09 0.07 0.07
	TOTAL	100.00
CALCULATED SP. G. CALCULATED BTU SAT CALCULATED BTU SAT		0.5879 1033 1014

VERY TRULY YOURS

COLEMAN PETROLEUM ENG. CO.

SE A. COLEMAN

PENNZOIL UNITED, Inc.

WESTERN DIVISION OFFICE • WALL TOWERS WEST - MIDLAND, TEXAS • PHONE (915) 682-7316

MAILING ADDRESS: P. O. DRAWER 1828 MIDLAND, TEXAS 79701

February 3, 1969

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Superior Oil Company P. O. Box 1900 Midland, Texas 79701

Pan American Petroleum Corporation P. O. Box 1540 Midland, Texas 79701

Texas Oil & Gas Corporation 900 Wilco Building Midland, Texas 79701

Re: Pennzoil United, Inc.
Mobil "12" Federal
Eddy County, New Mexico

BEFORE EXAMINER NUMBER

OIL CONSERVATION COLUMN 1 1

. CAC EXHIBIT NO. 12

CASE NO. 44072

Gentlemen:

Enclosed herewith and executed on behalf of Pennzoil United, Inc. is Form C-107, Application for Multiple Completion, covering the Mobil "12" Federal located in Section 12, T-23-S, R-26-E, Eddy County, New Mexico.

Very truly yours,

Rodney C. Boyd
Petroleum Engineer

RCB/mlm Encl.

cc: New Mexico Oil Conservation Commission ← THIS COPY FOR

Box 2088

Santa Fe, New Mexico 87501

PENNZOIL EXHIBIT 12

CASE 4072

RHODES, Mc CALLISTER & DURRETT ATTORNEYS AT LAW

JERRY P. RHODES
ORVILLE C. McCALLISTER, JR.
J. M. DURRETT, JR.

r-- 1

(A)

February 11, 1969

Case 4072

New Mexico Oil Conservation Commission P. O. Box 2008 Santa Fe, New Mexico

Attention: Mr. A. D. Porter, Jr. Secretary Director

Gentlemen:

I enclose an application for duel completion. Will you please docket this application on your next regularly scheduled examiner hearing.

Very truly yours,

Rhodes, McCallister & Durrett

By O'm Surress

ĵЪ

Encl.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

APPLICATION of

PENNZOIL UNITED, INC.

for a Dual Completion, Eddy County, New Mexico Case No. 4012

APPLICATION

COMES NOW the applicant, Pennzoil United, Inc., by and through its attorneys, Rhodes, McCallister & Durrett, and respectfully states:

I.

The applicant seeks authority to complete its Mobil "12" Federal Well No. 1 located 660 feet from the North line and 1980 feet from the East line of Section 12, Township 23 South, Range 26 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka Formation through 2-3/8 inch tubing and to produce gas from an undesignated Morrow Formation through a parallel string of 2-3/8 inch tubing with separation of zones by packers set at approximately 10, 798 feet and 11, 345 feet.

II.

The perforations in the Atoka Zone are approximately 10,842 to 10,868 feet and the perforations in the Morrow zone are approximately 11,453 to 11,539 feet.

RHODES, MCCALLISTER & DURRETT ATTORNEYS AT LAW 500 OAK. N E (CORMER ROMA AND INTERSTATE 25) ALBUQUERQUE, NEW MEXICO 87106 A diagrammatic sketch of the proposed dual completion is attached hereto as Exhibit "A" and incorporated herein by reference.

IV.

A plat showing the location of all wells on applicant's lease and all off-set wells is attached hereto as Exhibit "B" and incorporated herein by reference.

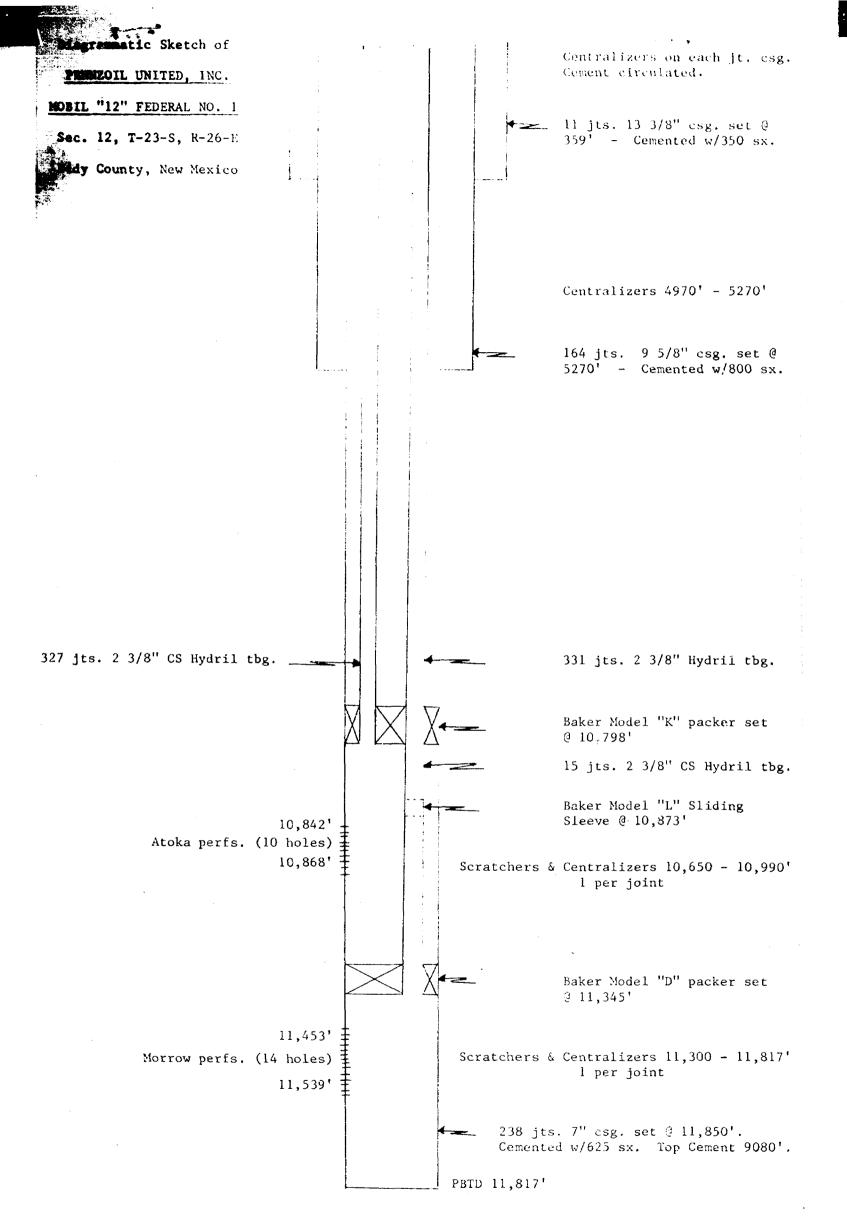
٧.

The applicant submits that the mechanics of the proposed dual completion of the subject well are feasible and in accord with good conservation practices.

WHEREFORE, the applicant requests the Commission to enter its order approving dual completion of the subject well as set out above.

Rhodes, McCallister & Durrett

By Jen DWNEAD



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0334649 L-1582 226 62 U.S. State	Y.V. Antwerp W.E. Fowler, et al. Lola i. Marsha!!	J.H. Aschbacher MeN.M.Ld. Co. H.P. Hemler
D.J. Sorenson 10 · 9 · 73 City of Carls badd Fawter	USS 6M. Collott 10 2665 974 10 25 51 Superior	Gulf Mobil 7 · 1 · 68(2) 4 · 1 · 70 0 40 \$ 47 Antwell
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Pennzoil United, Inc. Acreage dedicated to Mobil "12" Federal #1

Superior Oil Company
P. O. Box 1900
Midland, Texas 79701

Texas Oil & Gas Corp. 900 Wilco Building Midland, Texas 79701

Pan American Petr. Corp P. O. Box 1540 Midland, Texas 79701

Pennzoil United, Inc./ P. O. Drawer 1828 Midland, Texas 79701

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

Operator	To Security	, Dat	e
Pennzoil United, I	nc.	Eddy	1-31-69
P. O. Drawer 1828,	79701 Insee	Mobil "12" Federal	i No.
of Well B	12	23-5	26-E
1. Has the New Mexico Oil Conservation		• •	Il in these same pools or in the same
zones within one mile of the subject w			
2. If answer is yes, identify one such in	stance: Order No.	; Operator Lease, and Wel	11 No.:
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Wildcat - AToka		Wildcat - Morrow
b. Top and Bottom of			
Pay Section	10,842 - 10,868'		11,453 - 11,539
(Perforations)		tion of the comment of the second of the comment of	
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flouring	1	Figuina
4. The following are attached. (Please of	Flowing	<u> </u>	Flowing
of operators of all lea X C. Waivers consenting to tors have been furnis A. Electrical log of the dicated thereon. (If so 5. List all offset operators to the lease Superior Oil Company Pan American Petrole	ses offsetting applicant's lease. I such multiple completion from e hed copies of the application.* well or other acceptable log with uch log is not available at the time	ach offset operator, or in lieu the tops and bottoms of producing application is filed it shall be other with their correct mailing additional and the state of the shall be did and the state of the shall be did and the	Texas 79701
CERTIFICATE: 1, the undersigned,	-31-69	ım Engineer of the	

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

WESTERN DIVISION OFFICE * WALL TOWERS WEST - MIDLAND, TEXAS * PHONE (915) 682-7316

MAILING ADDRESS: P. O. DRAWER 1828 MIDLAND, TEXAS 79701

February 3, 1969

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Superior Oil Company P. O. Box 1900 Midland, Texas 79701

Pan American Petroleum Corporation P. O. Box 1540 Midland, Texas 79701

Texas Oil & Gas Corporation 900 Wilco Building Midland, Texas 79701

Re: Pennzoil United, Inc.
Mobil "12" Federal
Eddy County, New Mexico

Gentlemen:

Enclosed herewith and executed on behalf of Pennzoil United, Inc. is Form C-107, Application for Multiple Completion, covering the Mobil "12" Federal located in Section 12, T-23-S, R-26-E, Eddy County, New Mexico.

Very truly yours,

Rodney C. Boyd Petroleum Engineer

RCB/mlm Encl.

CC: New Mexico Oil Conservation Commission ← THIS COPY FOR Box 2088
Santa Fe, New Mexico 87501

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

AW	IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:	
	Marine Julie	CASE No. 4072 Order No. R- 3702
	APPLICATION OF PENNZOIL UNITED, INC. FOR A DUAL COMPLETION, EDDY COUNT NEW MEXICO.	TY,
	ORDER OF THE COMMISSION	
	BY THE COMMISSION:	
	This cause came on for hearing at 9 ==== March 5 , 1969 , at Santa Fe New Mexico Daniel S. Nutter .	
	NOW, on this <u>day of March</u> , a quorum being present, having considered the and the recommendations of the Examiner, and in the premises,	e testimony, the record,
	FINDS:	
	(1) That due public notice having been law, the Commission has jurisdiction of this matter thereof.	
	(2) That the applicant, Pennzoil (Jnited, Inc,
	seeks authority to complete itsMobil "12	" Federal
	Well No. 1 , located in Unit B of Sec	tion 12, Township
	23 South, Range 26 East, NMPM, Eddy	
	(convent Mexico, as a <u>dual</u> completion xrankina xtubingl	
	f.com_the====================================	r ough ====================================
	from an undesignated Atoka gas pool and from	an undesignated
	Morrow gas pool through parallel strings of	23/8 -inch tubing,
	with separation of the zones by a packer set	at approximately

11.345 feet.

- (3) That the mechanics of the proposed <u>dual</u> 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,Pennzoil United, Inc.
is hereby authorized to complete its Mobil "12" Federal
Well No. 1 , located in Unit B of Section 12 , Township
23 South, Range 26 East NMPM, Eddy County, New West
Mexico, as a <u>dual</u> completion (conventional) xxixx to produce gas x(xxixxxx)xxx
from-the
from an undesignated Atoka gas pool and from an undesignated
Morrow gas pool through parallel strings of 238 -inch tubing,
with separation of the zones by a packer set at approximately
// 345 feet;

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 Multiple Research Cas-Oil Ratio Test Period for the undesignated Morrow gas pool. Province 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.