

CASE 5757: WESTERN OIL PRODUCERS

INC. for special pool rules, *ne.*

Lea County, New Mexico

CASE NO.

5757

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
12 October, 1977

EXAMINER HEARING

IN THE MATTER OF:

Case 5757 being reopened pursuant to) CASE
the provisions of Order No. R-5296) 5757
which order established temporary pool)
rules for the Maljamar-Pennsylvanian)
Pool, Lea County, New Mexico.)

BEFORE: Richard L. Stamets.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

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

1 MR. STAMETS: The hearing will please come to
2 order and we'll call next Case 5757.

3 MS. TESCHENDORF: Case 5757. In the matter of
4 Case 5757 being reopened pursuant to the provisions of Order
5 No. R-5296 which order established temporary pool rules for
6 the Maljamar-Pennsylvanian Pool, Lea County, New Mexico.

7 MR. STAMETS: Call for appearances in this case.
8 There are no appearances in this case?

9 We'll take the case under advisement.


10 (Hearing concluded.)
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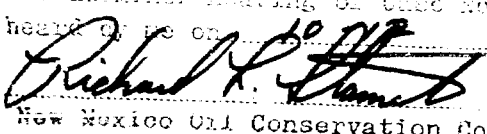
sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 127, Santa Fe, New Mexico 87501
Phone (505) 982-9212

REPORTER'S CERTIFICATE

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


Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5757
heard by me on 10th Dec, 1922
, Examiner
New Mexico Oil Conservation Commission

sid morrish reporting service

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

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. 5757
Order No. R-5296-A

IN THE MATTER OF CASE 5757 BEING
REOPENED PURSUANT TO THE PROVISIONS
OF ORDER NO. R-5296, WHICH ORDER
ESTABLISHED TEMPORARY SPECIAL POOL
RULES FOR THE MALJAMAR-PENNSYLVANIAN
POOL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 12, 1977,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 1st day of November, 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 by Order No. R-5296, dated October 12, 1976,
temporary special rules and regulations were promulgated for the
Maljamar-Pennsylvanian Pool, Lea County, New Mexico, establish-
ing temporary 160-acre spacing units and proration units.

(3) That pursuant to the provisions of Order No. R-5296,
this case was reopened to allow the operators in the subject
pool to appear and show cause why the Maljamar-Pennsylvanian
Pool should not be developed on 40-acre spacing units.

(4) That no operator appeared to present testimony in the
subject case.

(5) That in the absence of any testimony, the temporary
special pool rules for said Maljamar-Pennsylvanian Pool should
be rescinded.

-2-

Case No. 5757
Order No. R-5296-A

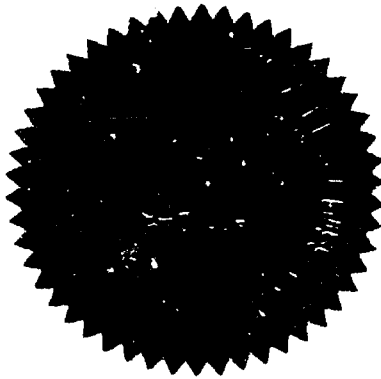
IT IS THEREFORE ORDERED:

(1) That effective December 1, 1977, the Special Rules and Regulations governing the Maljamar-Pennsylvanian Pool, promulgated by Order No. R-5296, are hereby rescinded.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



PHIL R. LUCERO, Chairman


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary

S E A L

jr/

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. 5757
Order No. R-5296

NOMENCLATURE

APPLICATION OF WESTERN OIL
PRODUCERS FOR SPECIAL POOL
RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 15, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 12th day of October, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant seeks the promulgation of special rules for the Maljamar-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre proration units.

(3) That the horizontal limits of said pool consist of the NW/4 of Section 5, Township 17 South, Range 33 East, NMPM, Lea County, New Mexico.

(4) That said Maljamar-Pennsylvanian Pool has been abandoned for several years.

(5) That the applicant has completed its Union State Well No. 1 in Unit E of Section 32, Township 16 South, Range 33 East, NMPM, Lea County, New Mexico, in the Pennsylvanian formation within one mile of said Maljamar-Pennsylvanian Pool.

(6) That the Maljamar-Pennsylvanian Pool should be extended to take in said Union State Well No. 1.

(7) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of

risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 160-acre spacing units should be promulgated for the Maljamar-Pennsylvanian Pool.

(8) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(9) That the temporary special rules and regulations should provide for a depth bracket allowable of 605 barrels.

(10) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(11) That this case should be reopened at an examiner hearing in October, 1977, at which time the operators in the subject pool should be prepared to appear and show cause why the Maljamar-Pennsylvanian Pool should not be developed on 40-acre spacing units.

IT IS THEREFORE ORDERED:

(1) That effective October 1, 1976, the Maljamar-Pennsylvanian Pool, Lea County, New Mexico, as heretofore classified defined, and described is hereby extended to include therein:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM
Section 32: W/2

(2) That further effective October 1, 1976, temporary Special Rules and Regulations for the Maljamar-Pennsylvanian Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE MALJAMAR-PENNSYLVANIAN POOL

RULE 1. Each well completed or recompleted in the Maljamar-Pennsylvanian Pool or in the Pennsylvanian formation within one mile of the Maljamar-Pennsylvanian Pool, and not nearer to nor within the limits of another designated Pennsylvanian Pool, shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the Maljamar-Pennsylvanian Pool shall be located on a unit containing 160-acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Lands Survey.

RULE 3. Each well completed or recompleted in said pool shall not be drilled closer than 660 feet to any quarter section line nor closer than 330 feet to any quarter-quarter section line.

RULE 4. For good cause shown, the Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising less than 160 acres. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director of the Commission may approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to a standard allowable in the Maljamar-Pennsylvanian Pool as the acreage in such non-standard unit bears to 160 acres.

RULE 5. A standard proration unit (158 through 162 acres) in the Maljamar-Pennsylvanian Pool shall be assigned a depth bracket allowable of 605 barrels, subject to the market demand percentage factor, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit in any proportion.

IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the Maljamar-Pennsylvanian Pool or in the Pennsylvanian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs district office of the Commission in writing of the name and location of the well on or before December 1, 1976.

(2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Maljamar-Pennsylvanian Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 160 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the Maljamar-Pennsylvanian Pool or in the Pennsylvanian formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

-4-

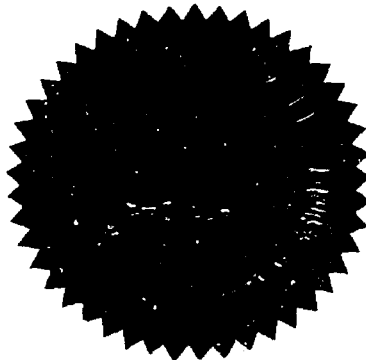
Case No. 5757
Order No. R-5296

(3) That this case shall be reopened at an examiner hearing in October, 1977, at which time the operators in the subject pool should be prepared to appear and show cause why the Maljamar-Pennsylvanian Pool should not be developed on 40-acre spacing units.

(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
EMERY C. ARNOLD, Member

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

S E A L

jr/

CASE 5981: (Continued from September 14, 1977, Examiner Hearing)

Application of W. A. Moncrief, Jr., for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of an oil pool for Upper-Pennsylvanian production for his State Well No. 1 located in Unit E of Section 26, Township 16 South, Range 33 East, Lea County, New Mexico, and the promulgation of special rules therefor, including a provision for 80-acre spacing.

CASE 6061: Application of Yates Petroleum Corporation for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Stinking Draw Unit Area comprising 2,881 acres, more or less, of Federal and State lands in Township 21 South, Range 22 East, Eddy County, New Mexico.

CASE 5983: (Continued from September 28, 1977, Examiner Hearing)

Application of Yates Petroleum Corporation for the amendment of Order No. R-5445, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5445 to provide for a 200 percent risk factor for drilling the unit well rather than 20 percent. Said order pooled the N/2 of Section 19, Township 20 South, Range 25 East, Eddy County, New Mexico.

CASE 6062: Application of Yates Exploration Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down to and including the San Andres formation underlying the SW/4 NW/4 of Section 27, Township 9 South, Range 28 East, Chaves County, New Mexico, to be dedicated to applicant's Plains Radio Well No. 1 located in the center of said tract. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6063: Application of Texas Oil & Gas Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the N/2 of Section 28, Township 19 South, Range 25 East, Eddy County, New Mexico, to be dedicated to applicant's Boyd South Gas Unit Well No. 1 to be located in Unit G of said Section 28. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6064: Application of Texas Oil & Gas Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the N/2 of Section 29, Township 19 South, Range 28 East, Eddy County, New Mexico, to be dedicated to applicant's Exxon State Com B Well No. 1 located in Unit G of said Section 29. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5757: (Reopened)

In the matter of Case 5757 being reopened pursuant to the provisions of Order No. R-5296 which order established temporary special pool rules for the Maljamar-Pennsylvanian Pool, Lea County, New Mexico. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 6047: (Continued from September 28, 1977, Examiner Hearing)

Application of Continental Oil Company for capacity allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a capacity allowable for its Pearl "B" Wells Nos. 5 and 6, located in Units M and O, respectively, of Section 25, Township 17 South, Range 32 East, and its Pearl "B" Well No. 7 located in Unit M of Section 30, Township 17 South, Range 33 East, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 6043: (Continued from September 28, 1977, Examiner Hearing)

Application of V-F Petroleum Inc., for an unorthodox oil well location, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox oil well location 330 feet from the South line and 2310 feet from the East line of Section 29, Township 8 South, Range 38 East, North Sawyer-Devonian Pool, Roosevelt County, New Mexico.

Dockets Nos. 26-76 and 27-76 are tentatively set for hearing on September 29 and October 13, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 15, 1976

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

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

ALLOWABLE: (1) Consideration of the allowable production of gas for October, 1976, from seventeen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.

(2) Consideration of the allowable production of gas for October, 1976, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 5766: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the amendment of Rule 116 of the Commission Rules and Regulations, NOTIFICATION OF FIRE, BREAKS, LEAKS, SPILLS, AND BLOWOUTS, to include the requirement for notification of breaks, blowouts, and spills at fluid injection or disposal wells or at facilities related thereto, or other escape of injected water or other fluids.

CASE 5764: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the revision of Commission Form C-105, WELL COMPLETION OR RECOMPLETION REPORT AND LOG, to provide space for the reporting of depths of oil and/or gas sands or zones and important water sands.

CASE 5765: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the partial temporary suspension of Rule 202B of the Commission Rules and Regulations to permit approved temporarily abandoned wells to continue in such status without the requirement for notice and hearing pending the outcome of new bonding and plugging legislation to be proposed to the First Session of the 33rd New Mexico Legislature.

CASE 5753: Application of A. H. Rains for amendment of Order No. R-5217, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5217 to provide an administrative procedure for the approval of substitute or additional salt water disposal wells on applicant's Pure State Lease in Section 15, Township 21 South, Range 27 East, Magruder-Yates Pool, Eddy County, New Mexico.

CASE 5754: Application of Burleson & Huff for compulsory pooling and a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Yates-Seven Rivers formation underlying the E/2 NE/4 of Section 21 and the W/2 NW/4 of Section 22, Township 25 South, Range 37 East, to form a 160-acre non-standard gas proration unit in the Jalmat Pool, Lea County, New Mexico, to be dedicated to applicant's Arco Well No. 2-Y located 1770 feet from the North line and 660 feet from the East line of Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5755: Application of Burleson & Huff for salt water disposal well, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation through the perforated interval from 4014 feet to 4290 feet in its Cinco de Mayo Well No. 1 located in Unit C of Section 24, Township 18 South, Range 32 East, Shinnery-Queen Pool, Lea County, New Mexico.

CASE 5756: Application of Burleson & Huff for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Rustler formation through the open-hole interval from approximately 937 feet to 1200 feet in its Arco Well No. 2 located in Unit H of Section 21, Township 25 South, Range 37 East, Jalmat Pool, Lea County, New Mexico.

CASE 5757: Application of Western Oil Producers, Inc. for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Maljamar-Pennsylvanian Oil Pool, in Section 5, Township 17 South, Range 33 East, Lea County, New Mexico, including a provision for 160-acre spacing and proration units.

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 15, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Western Oil Producers,) CASE
Inc. for special pool rules,) 5757
Lea County, New Mexico.)

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission: William F. Carr, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant: W. Thomas Kellahin, Esq.
KELLAHIN & FOX
Attorneys at Law
500 Don Gaspar
Santa Fe, New Mexico

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General Court Reporting Service
825 Calle Mojia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I N D E XPageN. RAYMOND LAMB

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Stanets

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EXHIBIT INDEXOfferedAdmitted

Applicant's Exhibit One, Plat

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Applicant's Exhibit Two, Contour Map

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Applicant's Exhibit Three, Data, Roswell Geol.

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Applicant's Exhibit Four, Cost Figures

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Applicant's Exhibit Five, Completion Record

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Applicant's Exhibit Six, Plugging Report

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Applicant's Exhibit Seven, Log

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Applicant's Exhibit Eight, Drill Stem Tests

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Applicant's Exhibit Nine, Drill Stem Tests

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Applicant's Exhibit Ten, Drill Stem Tests

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1 MR. STAMTS: The hearing will please come to
2 order. We will call next Case 5757.

3 MR. CARR: Case 5757, application of Western Oil
4 Producers, Inc. for special pool rules, Lea County, New Mexico.

5 MR. KELLAHIN: Tom Kellahin of Kellahin and Fox,
6 Santa Fe, New Mexico appearing on behalf of the applicant and
7 I have one witness to be sworn.

8 (THEREUPON, the witness was duly sworn.)

9
10 N. RAYMOND LAMB

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

13
14 DIRECT EXAMINATION

15 BY MR. KELLAHIN:

16 Q Would you please state your name and occupation?

17 A N. Raymond Lamb, I'm a geological engineer, consulting.

18 Q Mr. Lamb, have you previously testified before the
19 Commission and had your qualifications as an expert witness
20 made a matter of record?

21 A Yes.

22 Q Have you been retained by the applicant, Western Oil
23 Producers, to make a study of and present this application to
24 the Oil Commission?

25 A Yes, I have.

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Phone (505) 982-9212

1 MR. KELLAHEN: If the Examiner please, are the
2 witness's qualifications acceptable?

3 MR. STAMETS: They are.

4 Q (Mr. Kellahin continuing.) Mr. Lamb, please refer
5 to Exhibit Number One, identify it and state what Western Oil
6 Producers is seeking?

7 A Exhibit Number One is a small lease plat of the
8 West Kemnitz area involving nine sections in the entirety of
9 the plat. Western Oil Producers have under farmout the north
10 half of 32 and the south half of 29 from Union Oil Company.
11 They have one well drilled which is indicated by the green
12 arrow. The area to the south which is outlined in red and
13 shows the red dot is the Aztec No. 2 Well which was the only
14 producer from the Penn which was Maljamar-Penn.

15 The area to the west of the Western production is
16 known as the Kemnitz, the West Kemnitz area, and there are four
17 producing wells in that particular section that produce from
18 the Kemnitz zone which is about eight hundred feet above the
19 Penn zone producing in the Western well and the Aztec well.

20 Q Please refer to Exhibit Number Two and identify it?

21 A Exhibit Number Two is a contour on the Kemnitz zone
22 which indicates that it will reflect the structure of the Penn
23 which is in the Western well and the Aztec well.

24 At a position immediately north of the Aztec well
25 you find a change in the Kemnitz limestone which cleans up to

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Phone (505) 982-9212

1 a white line to the north and becomes dirty to the south. The
2 difference in structural position of the Western well as to the
3 Aztec well was forty-two feet. Western was forty-two feet high
4 on the Kemnitz and five feet high on the top of the Penn pay
5 zone between those two wells.

6 Q What's the difference in the sub-sea elevation?

7 A I think it is about thirteen feet. The measurements
8 that I'm giving you, the forty-two and the five, take into
9 account the elevation.

10 Q I see. Okay, please refer to Exhibit Number Three
11 and identify it?

12 A Exhibit Number Three is a page from the Roswell
13 Geological Society Symposium prepared by Mr. David and it gives
14 the factual data on this particular pool which shows to be a
15 reef or a structural nose. The important thing that I need
16 to refer to here is the infield pressure which is about the
17 middle of the page. It shows to be thirty-seven hundred, sixty-
18 one pounds and the Western well on a drill stem test, the
19 pressure in the Kemnitz zone was fifteen hundred and fifty-one
20 pounds, which shows considerable draw down of about twenty-two
21 hundred pounds in the Kemnitz zone even though the well is
22 half-a-mile west of the Kemnitz production. We are thinking
23 that there might be a relationship between the Lower Penn zone
24 as to the Kemnitz zone. We do notice that much draw down in
25 pressure in the Western well.

1 MR. STAMETS: I would like to get clarified on this.
2 In the West Kemnitz we are talking about a Wolfcamp zone?

3 A. Yes.

4 MR. STAMETS: The subject application concerns
5 Pennsylvanian?

6 A. Yes.

7 MR. STAMETS: Did you indicate that the pressure in
8 the Penn was --

9 A. No, in the Kemnitz zone.

10 MR. STAMETS: In the Kemnitz zone?

11 A. Yes, in the Wolfcamp, which to us shows a drainage
12 in the Kemnitz zone in the similar type rock in the zone above
13 the Penn zone.

14 The West Kemnitz zone had four wells in it that to
15 the beginning of 1976 had produced six hundred and ninety
16 thousand barrels of oil or a hundred and seventy-two thousand
17 per well but this isn't the whole story, it is erratic
18 recovery. The well in the southwest quarter recovered four
19 hundred and nineteen thousand out of the Kemnitz. The well in
20 the northeast recovered seventy-nine thousand and the one in
21 the northeast recovered a hundred and thirty-four thousand and
22 the well in the southeast quarter of 31 recovered only fifty-
23 seven thousand and while we are on the point of production, the
24 Penn well, which is the Aztec No. 2, Penn discovery, produced
25 only twenty-six thousand, twenty-two barrels to its lifetime

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1 and it was plugged in 1975 and a copy of the plugging order is
2 covered by Exhibit Six later on.

3 Q (Mr. Kellahin continuing.) When was the Aztec well
4 drilled?

5 A In 1963, about the middle of the year.

6 Q Please refer to Exhibit Number Four and identify it?

7 A Exhibit Number Four is a group of instruments which
8 show the cost of drilling the Union State Well and at the time
9 the AFE was made they assumed it would be in the Kemnitz zone
10 but it turned out to be in the Penn. But the estimated cost
11 for drilling the well was four hundred and twelve thousand,
12 eight hundred and seventy-six dollars and supporting evidence
13 further on shows the actual cost was three hundred and ninety-
14 seven thousand, four hundred and ninety-two dollars. So with
15 drilling an expensive well of that kind care must be taken that
16 you recover enough oil to sufficiently pay for that expenditure.

17 Q Please refer to Exhibit Number Five?

18 A Exhibit Number Five is a completion record filed by
19 Western with the Oil Conservation Commission showing the
20 completion procedure with one exception. Under acid, frac and
21 shooting, the well before completion was originally treated
22 with a thousand gallons of acid and was later re-treated with
23 four thousand gallons of acid, using lall sealers and did result
24 in an increase of continuous production. In the latter part
25 of this report, you find the copies of the Halliburton treating

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1 records on both treatments and also in this you find testing
2 information as to the Union State well by Western. Under the
3 drill stem test number two is a record of the Union State
4 pressure data which shows a fifteen hundred and fifty-one
5 pounds after a four-hour build up and thirty-seven, sixty one on
6 the original West Kemnitz zone. In the Penn zone the situation
7 is somewhat similar but not so exaggerated.

8 Q What drill stem test is that?

9 A That's number four. The shut in pressure on the
10 number four drill stem test which is the Penn zone in the
11 Union well was forty-one, thirty-four after a hundred and eighty
12 minute build up. The original pressure in the discovery well,
13 the Maljamar-Penn or the Aztec well was forty-seven, thirty-five
14 or some six hundred pounds below the virgin pressure in the
15 Aztec well which does indicate one of two things, and at this
16 point we cannot determine, it's either a limited reservoir or
17 we have communication and drainage.

18 Q Please refer to Exhibit Number Six?

19 A Exhibit Number Six has been referred to as supporting
20 evidence that the Aztec No. 2 Well was plugged. It was plugged
21 in 1975.

22 Q Exhibit Number Seven?

23 A Exhibit Number Seven is the lower section of the
24 densilog neutron by Dresser-Atlas. It indicates the drill stem
25 test over the Penn zone and also does indicate in red the zones

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1 which are producing and which have been perforated. The
2 percentage of porosity in the upper and lower zones is five
3 per cent and the percentage calculated by Dresser-Atlas is
4 seven-and-a-half percent in the middle zone and the water
5 percentages run from twelve to eighteen percent in the three
6 zones. This is the zone which is now producing in the Union
7 State well and no record has been obtained on the Aztec well
8 as to the logging of the lower zone and I can only assume that
9 their zone is identical to this. The interval is reasonable
10 and it would be a reasonable assumption to assume that it is.
11 The log that I was able to obtain from Aztec only goes to
12 ten thousand, nine hundred and some odd feet and it does not
13 cover this lower zone.

14 Q Please refer to Exhibit Number Eight and identify
15 it?

16 A Exhibit Numbers Eight, Nine and Ten are all support-
17 ing evidence, copies of drill stem tests supporting the
18 bottom-hole pressure and the fluid recovered on the drill
19 stem tests in the subject well.

20 Q Mr. Lamb, do you have any recommendations to the
21 Commission in regards to the special pool rules to be applied
22 to this particular pool?

23 A Yes, in view of the questionable recovery, a possible
24 limited reservoir and possible drainage from the Penn well,
25 insofar as the Penn is concerned it is important that we have

1 a wide spacing for a limited time so that we can gather data
2 and study the performance of the now producing well and
3 determine what exactly the spacing program shall be for the
4 development of the pool.

5 Western Oil now has tentatively located a well
6 nineteen eighty from the east and sixteen fifty from the north
7 of Section 32, which would be the west hundred-and-sixty acre
8 offset to their original well. They have plans to drill this
9 well, they have prospects in the Penn as well as in the
10 Kemnitz above. For your record the Kemnitz zone in the Western
11 Union State did show a sizable amount of oil on a drill stem
12 test but also did show a hundred-and-twenty feet of water
13 recovery and in the sampler they also had drilling water or
14 reservoir water in it. The water seemed to be contaminated
15 slightly with a drilling fluid which was fresh water.

16 The porosities in the Kemnitz zone, which is still
17 available for production in the Union State well varies from
18 seven to thirteen percent over five zones and the percentage
19 of water varies anywhere from twenty-three to forty-one
20 percent. The forty-one percent water is marginal as far as
21 the Kemnitz Wolfcamp is concerned.

22 Q What is your recommendation with regard to the
23 specific acreage to be applied in the spacing rule?

24 A I feel and would recommend that the spacing be
25 a hundred-and-sixty acres per Penn well during an established

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1 period of one year to put together the additional information
2 gathered from additional drilling from the same pattern, as
3 far as I know by the same company and in time we can be more
4 specific and more exact with a recommendation for a final
5 spacing program for this field.

6 Q In your opinion, Mr. Lamb, will the approval of
7 this application be in the best interests of conservation
8 and the prevention of waste and the protection of correlative
9 rights?

10 A Yes, it will and also it will be a protection for
11 the possible drilling of unnecessary wells.

12 Q Were Exhibits One through Ten compiled under your
13 direction and supervision?

14 A They were.

15 MR. KELLAHIN: If the Examiner please, we move
16 the introduction of Exhibits One through Ten.

17 MR. STAMETS: Exhibits One through Ten will be
18 admitted.

19 (THEREUPON, Applicant's Exhibits One through
20 Ten were admitted into evidence.)

21 MR. KELLAHIN: That concludes our direct examination.

22

23

CROSS EXAMINATION

24 BY MR. STAMETS:

25 Q Mr. Lamb, would you propose limited well locations

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1 in this area, say six-hundred-and-sixty feet from the outer
 2 boundry to one-sixty?

3 A. I think it would be advisable.

4 Q. Now, the Union State well is open in the Upper --

5 A. In the Penn.

6 Q. Zone of the Pennsylvanian here, what's identified
 7 as drill stem test number three, right?

8 A. I think it's number four. Number three, you're
 9 right. Number three is correct. It's shown on Exhibit Seven.

10 Q. All right, and drill stem test number four is somewhat
 11 below that and that has not been opened up yet?

12 A. Very little hydrocarbons were recovered in that drill
 13 stem test, the details I can read to you if you --

14 Q. No, that's not necessary.

15 MR. STAMETS: Are there any other questions of the
 16 witness?

17 MR. KELLAHIN: No, sir.

18 MR. STAMETS: He may be excused.

19 (THEREUPON, the witness was excused.)

20 MR. STAMETS: Anything further in this case?

21 One other question, Mr. Lamb. The pool name,
 22 Maljamar-Pennsylvanian, I presume would include the entire
 23 Pennsylvanian section. What do you have here, is this
 24 Upper Pennsylvanian or Cisco Canyon?

25 THE WITNESS: Probably Cisco Canyon.

1 MR. STAMETS: Should the special pool rules limit
2 the formation in this area to Upper Pennsylvanian?

3 THE WITNESS: I think it would be reasonable, yes.
4 I didn't suggest it because the Maljamar Penn was not restricted
5 in any way and I thought that the extension would -- that this
6 would be an extension of that Maljamar-Penn. We don't propose
7 a new field name or a new field at all.

8 MR. STAMETS: Any further questions of the witness?
9 He may be excused.

10 (THEREUPON, the witness was excused.)

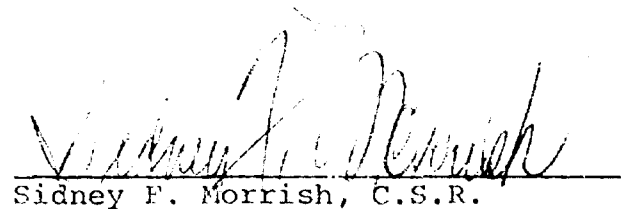
11 MR. STAMETS: Is there anything further in this
12 case? The case will be taken under advisement.

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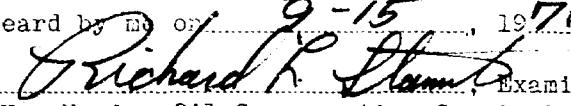
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REPORTER'S CERTIFICATE

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


Sidney F. Morrish, C.S.R.

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General Court Reporting Service
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Phone (505) 982-9212

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5757.
heard by me on 9-15, 1976.
 Examiner
New Mexico Oil Conservation Commission

CASE 5757 EXHIBIT # 1

**BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION**

Submitted By: _____
Hearing Date: _____

Infr. Nuclear
C-20-77
L-48
35-07

Garland Smith
Gulf-St.
EI 4233
TO 4615
ON 3630
SA 4428
D/A 9-11-56

Inexco
Pan Amer. St.
TO 10300
D/A 12-9-70

KSCGG
12-01

Union
2-21-77
K-6724
2656

(Mobil/Gal)
Apexco
OG-5485
We Disc.
F-256
Maljamar No. Unit

(Union)
K-6725
West'n Oil Prod. Inc.

Votes
Cit-Ser Angle
EI 4232
TO 4750
D/A 2-56

So. Union
11-1-82
LG-815
15-07

Huber Corp
Union-St
WC Disc

KEMNITZ, W.E.

NORTH EAST UNIT

Adobe
4-21-80
L-4427
12-75

Adobe
4-21-80
L-4427
12-75

Sol
West III
5-21-78
L-904
12-75

Shenandoah
Mim. Inc. D/R
PDP
K-666

Shall
W.D.P.
C-2515

McLaughlin & Casden
3-A
D-4650
State (Shenandoah)

Aztec
Northeast Mfg.
E-231 Unit

Aztec
2

OPEN F336
T/A 8-29-60

Santiago
Gr. West
TO 4400

C.Y. McLaughlin
H.B.P. B-2313

L. Nichols S/R

Read E Stevens
6-16-80
L-4620
15-76

Aztec S/R

Shall
H.B.P. B-2516

State

Samedan
H.B.P.
E-2714

Vickers
DIR
E 2714

J&H Prod. et al

Western St

(Tenneco)
E 1388

Cactus State
TO 4711
D/A 10-21-55

Shenandoah
(R.E. Boling)
to 4803

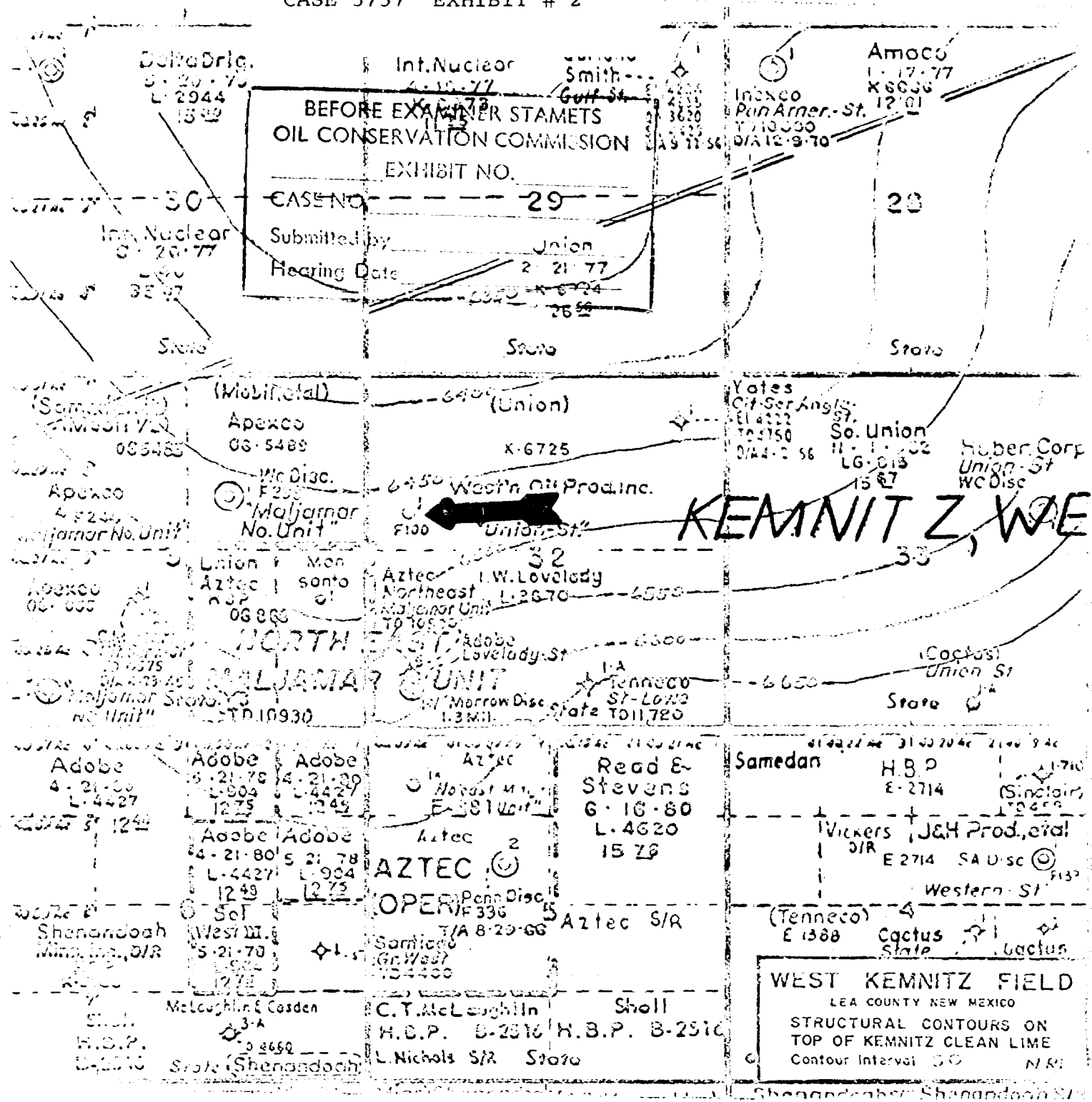
Vickers
State

P11

Shenandoah S/R

Shenandoah S/R

CASE 5757 EXHIBIT # 2



BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
ROSWEILL GEOLOGICAL SOCIETY SYMPOSIUM
EXHIBIT NO. _____

CASE NO. _____

Author: E. K. David

Submitted by: _____

Date: November 1, 1966

Hearing Date: _____

Field Name: _____

Location: West Kennitz

County & State: Section 31, T-16-S, R-33-E

Lea County, New Mexico

Discovery Well: _____

Apache #1 Maljamar North Unit, NE/4 Section 31, T-16-S, R-33-E
IPF 298 BOPD. GOR 520, 7/16/63

Exploration Method Leading to Discovery: Subsurface and seismic

Pay Zone: _____

Formation Name: Wolfcamp (Bursum) Depth & Datum Discovery Well: 10,678 (-6425)

Lithology Description: Tan-white fine crystalline, fossiliferous, vuggy, cavernous

Approximate average pay: 132 gross 49 net Productive Area 320 acres

Type Trap: Reef over structural nose

Reservoir Data:

Oil: 34.6°

Gas: 520

Water: Na+K, Co, Mg, Cl, SO₄, CO₂, or HCO₃, Fe

Specific Gravity: _____ Resistivity: .07 ohms @ 143 °F

Initial Field Pressure: 3761 psi @ 10,800 datum Reservoir Temp. _____ °F

Type of Drive: Mainly gas solution, partial water drive

Normal Completion Practices: Run drillstem test, set casing through pay, perforate 1 SPI
treat with acid and complete.

Type completion: Flowing

Normal Well Spacing 80 Acres

Deepest Horizon Penetrated & Depth: Strawn 12,510' (-8280)

Other Producing Formations in Field: Free oil recovered from Maljamar upper Wolfcamp pay: 10405
(-6155)

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
1963	OIL	1		19,304	19,304		OIL				
	GAS						GAS				
1964	OIL	2		68,738	88,042		OIL				
	GAS						GAS				
1965	OIL	4		126,103	214,145	1975	OIL	4		106,200	697,217
	GAS						GAS	4		115,000	
	OIL						OIL				
	GAS						GAS				

WESTERN OIL PRODUCERS,

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

AFE

CASE 5757 EXHIBIT # 4

EXHIBIT NO. _____
 Lease: Union State Well No. 1 - Kemnitz Field
 CASE NO. _____ Location: SW/NE Sec. 32, T-16S, R-33E, Lea Co., New Mexico

Submitted by _____
 Description of work to be done: Drill hole to sufficient depth to test the
 Hecla and Seaman Formation or to approximately 11,800 feet.

INTANGIBLE DRILLING COST	Producer	Dry Hole
Surface Damage, Survey	\$ 400	\$ 400
Location Roads	3,500	3,500
Drilling - 11,800 x \$12.25/ft. + tax	150,332	150,332
Daywork - 5 days x \$2850 + tax	14,820	14,820
Mud	15,000	15,000
Water	5,000	5,000
Cementing Surface	1,800	1,800
Cementing Intermediate	3,500	3,500
Cementing 5 1/2"	5,000	
Drill Stem Testing - 3 @ \$2,000	6,000	6,000
Pulling Unit	3,000	
Logging	8,500	8,500
Perforating	5,000	
Acidizing	7,500	
Trucking	1,000	
Roustabout Labor	3,500	
Geological Engineering	5,000	5,000
Overhead	1,800	1,800
Miscellaneous	2,848	2,848
Total Intangible	\$243,500	\$218,500

TANGIBLE COSTS		
Casing: 1200' 12 3/4" @ \$10.00 + tax	\$ 12,480	\$ 12,480
4600' 8 5/8" @ \$ 8.70 + tax	41,620	41,620
11,800' 5 1/2" @ \$ 6.00 Av.	70,800	
Tubing:		
11,500' 2 3/8" @ \$ 1.85 + tax	22,126	
Wellhead	5,500	
Packer	1,500	
Tank Battery	15,000	
Flow Lines	350	
Total Tangible Costs	\$169,376	\$ 54,100
TOTAL COST	<u>\$412,876</u>	<u>\$272,600</u>

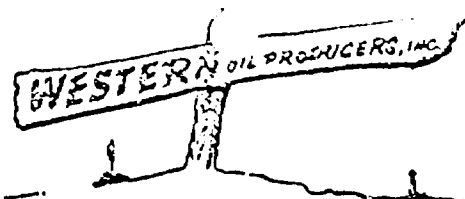
Approved _____

Date _____

WESTERN OIL PRODUCERS, INC.

Leslie K. Evertson
 Leslie K. Evertson, Pres.

ACTUAL TOTAL COST \$397,492.00



P. O. Box 2055
Roswell, New Mexico 88201

INVOICE

Date 8/12/76

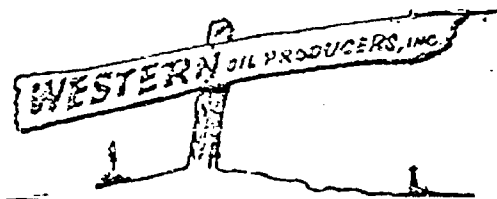
Invoice # 8-100-079

Lease Union State #1 -079

EXPLANATION

To bill you for costs incurred prior to casing point per attached details.

Intangible	\$234,484.19	83.85%
Tangible	45,170.03	16.15%
	<u>\$279,654.22</u>	<u>100.00%</u>



P. O. Box 2055
Roswell, New Mexico 88201

INVOICE

Date 8/12/76

Invoice # 8-101-079

Lease Union State #1 - 079

EXPLANATION

To bill you for costs incurred after casing point per attached details.

Intangible	\$ 6,170.35	5.24%
Tangible	\$111,668.17	94.76%
	<u>\$117,838.52</u>	<u>100.00%</u>

Cost Summary

Well: Union State #1 (079)

Location: Lea County, New Mexico

800 Intangibles Prior to Casing Point

<u>802</u>	<u>Surveyors</u>	<u>Inv.#</u>	<u>\$</u>	<u>Amt.</u>	<u>Total</u>
	John West Eng. Co.	676-12		114.40	
<u>803</u>	<u>Legal Fees</u>				
	Federal Abstract Co.	K-6725		106.59	
	Lovington Abstract	6-776		48.88	
<u>804</u>	<u>Location & Roadways</u>				
	Garrett Bldg. Centers	92505		104.29	
	New Mex Construction Co.	34951		6,071.90	
	New Mex Construction Co.	35001		244.30	
<u>805</u>	<u>Drilling</u>				
	Star Welding Service	5666A		74.88	
	Star Welding Service	4151A		66.56	
	WEK Drilling Co., Inc.	8-01		173,446.33	
	Bovaird Supply Co.	07601102		65.21	
<u>806</u>	<u>Cementing</u>				
	Halliburton	781239		3,820.95	
	Halliburton	781191		2,108.39	
<u>807</u>	<u>Mud & Chemicals</u>				
	Dresser Industries	59664		4,519.87	
	Dresser Industries	76787		9,194.76	
<u>808</u>	<u>Water Drilling</u>				
	Caprock Water Co.	2191		995.90	
	Caprock Water Co.	2186		968.66	
	Caprock Water Co.	2290		557.23	
<u>809</u>	<u>Drill Stem Testing</u>				
	Halliburton (DST #5)	781092		1,734.72	
	" (DST #4)	781091		983.84	
	" (DST #3)	781090		1,733.16	
	" (DST #2)	760058		1,645.28	
	" (DST #1)	760057		1,447.16	
<u>810</u>	<u>Logging</u>				
	Dresser Atlas Co.	47478		11,171.93	
	Sim-Wil Co.	241		5,272.80	
<u>815</u>	<u>Transportation</u>				
	WEK Drilling Co., Inc.	W-691176		374.40	
	WEK Drilling Co., Inc.	WU-11		1,029.60	
	JFG Enterprises	607		382.20	

Cost Summary (continued)

800 Intangibles Prior to Casing Point (continued)

<u>848</u>	<u>Administrative Overhead</u>	<u>Inv.#</u>	<u>Amt.</u>	<u>Total</u>
	Western Oil Producers, Inc.	Jour.Voucher	\$ 1,200.00	
		WOP 8-2		
TOTAL INTANGIBLES PRIOR TO CASING POINT				\$ 234,484.19

Tangibles Prior to Casing Point

<u>852</u>	<u>Surface Casing & Equipment</u>			
	Bearing Svc. & Supply	60509	11,371.72	
	Bull Rogers, Inc.	676-18	572.00	
<u>853</u>	<u>Intermediate Casing</u>			
	Bearing Svc. & Supply	60578	33,226.31	
TOTAL TANGIBLES PRIOR TO CASING POINT				\$ 45,170.03
TOTAL COST PRIOR TO CASING POINT				<u>\$ 279,654.22</u>

WESTERN OIL PRODUCERS, INC.

Cost Summary

Well: Union State #1

Location: Lea County, New Mexico

900 Intangibles After Casing Point

<u>906</u>	<u>Cementing</u>	<u>Inv.#</u>	<u>Amt.</u>	<u>Total</u>
	Halliburton	760157	\$ 5,217.71	
<u>912</u>	<u>Temperature Survey</u>			
	Bennett Wire Line Svc.	776-69	352.64	
TOTAL INTANGIBLES AFTER CASING POINT				\$ 6,170.35

Tangibles After Casing Point

<u>952</u>	<u>Production Casing</u>			
	Bearing Svc. & Supply	61060	9,678.42	
	Western Oil Prod. Inc.	Jour.Vou.		
		WOP 8-1	61,672.72	
<u>953</u>	<u>Tubing</u>			
	Bearing Svc. & Supply	61227	27,310.27	
<u>954</u>	<u>Well Head & Equipment</u>			
	Milberger Co.	Stmt.	2,367.56	
<u>956</u>	<u>Tank Battery</u>			
	Swedes Tank Supply	Stmt.	10,400.00	
	T&C Tank Rental & Anchor Svc.	1055	239.20	
TOTAL TANGIBLES AFTER CASING POINT				<u>\$ 111,668.17</u>
TOTAL COST AFTER CASING POINT				<u><u>\$ 117,838.52</u></u>

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION		EXHIBIT NO. NEW MEXICO OIL CONSERVATION COMMISSION	
NO. OF COPIES RECEIVED		CASE WELL COMPLETION OR RECOMPLETION REPORT AND LOG	
DISTRIBUTION		State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
SANTA FE		5. State Oil & Gas Lease No.	
FILE			
U.S.G.S.			
LAND OFFICE		Submitted by _____	
OPERATOR		Hearing Date _____	

10. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. Unit Agreement Name	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		8. Form or Lease Name Union State	
2. Name of Operator Western Oil Producers, Inc.		9. Well No. #1	
3. Address of Operator P. O. Box 2055, Roswell, New Mexico 83201		10. Field and Pool, or Wildcat Undesignated	
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM <u>THE West</u> LINE OF SEC. <u>32</u> TWP. <u>16S</u> RGE. <u>33E</u> NMPM		12. County Lea	
15. Date Spudded 6/9/76	16. Date T.D. Reached 7/30/76	17. Date Compl. (Ready to Prod.) 8/10/76	18. Elevations (DF, RKB, RT, GR, etc.) 4224.6 GR
19. Elev. Casinghead 4224. CH	25. Was Directional Survey Made No		
29. Total Depth 11,950	21. Plug Back T.D. 11,705	22. If Multiple Compl., How Many	23. Intervals Drilled By XX
24. Producing Interval(s), of this completion - Top, Bottom, Name 11,509 - 11,533 Penn Seaman			27. Was Well Cored No
25. Type Electric and Other Logs Run Compensated Neutron - Dual Induction Lateral			
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
13 3/8	48	965	17 1/2
8 5/8	24 - 32	4,430	11
5 1/2	17 - 20	11,767	7 7/8
CEMENTING RECORD		AMOUNT PULLED	
700 SX Circ.		0	
250 SX Circ.		0	
450 SX Circ.		0	
29. LINER RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT
32. TUBING RECORD		PACKER SET	
SIZE	DEPTH SET	11,398	
2 3/8	11,462		
31. Perforation Record (Interval, size and number)			
11,509 - 11,511 Total 24 .45 holes			
11,517 - 11,521 2 .43 shots/ft.			
11,520 - 11,533			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
11,509 - 11,533		1000 gal 15% HCl Acid	
4100 w/ ball seat acid			
33. PRODUCTION			
Date First Production 8/10/76		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing	
Well Status (Prod. or Shut-in) Flowing			
Date of Test 8/11/76	Hours Tested 24	Choke Size 10/64	Prod'n. For Test Period 8 1/2 100
Oil - Bbl. 8 1/2 100	Gas - MCF 75.6	Water - Bbl. 0	Gas-Oil Ratio 900-1
Flow Tubing Press. 230	Casing Pressure 0	Calculated 24-Hour Rate 8 1/2 100	Oil Gravity - API (Corr.) 41.6
34. Disposition of Gas (Solid, used for fuel, vented, etc.) Flared			Test Witnessed By Gene A. Snow
35. List of Attachments			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.			
Signature <i>Gene A. Snow</i>		TITLE Asst. Superintendent	
		DATE 8/12/76	

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Kirtland-Fruitland	T. Penn. "C"	
B. Salt	T. Pictured Cliffs	T. Penn. "D"	
T. Yates	T. Cliff House	T. Leadville	
T. 7 Rivers	T. Menefee	T. Madison	
T. Queen	T. Point Lookout	T. Elbert	
T. Grayburg	T. Montoya	T. McCracken	
T. San Andres 4400	T. Simpson	T. Ignacio Qtzite	
T. Glorieta 5852	T. McKee	T. Granite	
T. Paddock	T. Ellenburger	T. Dakota	
T. Blinberry	T. Gr. Wash	T. Morrison	
T. Tubb 7140	T. Granite	T. Todilto	
T. Drinkard	T. Delaware Sand	T. Entrada	
T. Abo 7888	T. Bone Springs	T. Wingate	
T. Wolfcamp 9684		T. Chinle	
T. Penn. 11215		T. Permian	
T. Cisco (Bough C) 10722		T. Penn. "A"	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	662	662	Red Bed & Sand				
662	940	278	Red Bed & Sand & Anhy				
940	1777	837	Anhy & salt				
1777	3270	1493	Anhy				
3270	4319	1049	Anhy & Lime				
4319	8779	4460	Lime				
8779	10247	1478	Lime & Shale				
10247	10300	53	Lime & Shale & Chert				
10300	11950	1650	Lime & Shale to TD				

SANITARY	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-105
Effective 1-1-65

I. Operator
Western Oil Producers, Inc.
Address
P. O. Box 2055 Roswell, New Mexico 88201
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)
DISCOVERED GAS MUST NOT BE
PLACED AFTER 10/16/76
UNLESS AN EXCEPTION TO R-4579
IS OBTAINED

If change of ownership give name
and address of previous owner

THIS WELL HAS BEEN PLACED IN THE POOL
RECOMPLETION. IF YOU DO NOT CONCUR
NOTIFY THIS OFFICE.

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Union State	#1		State, Federal or Fee State	K 6725
Location	Unit Letter E	1980 Feet From The North Line and 660 Feet From The West		
Line of Section 32	Township 16S	Range 33E	NMPM	Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Navajo Crude Oil Purchasing Co.	Drawer 175, Artesia, New Mexico 88210
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Probably Conoco	P. O. Box 2197, Houston, Texas
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	E 32 16S 33E No Approx. 20-30 days

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'r. <input type="checkbox"/>	Diff. Res'r. <input type="checkbox"/>
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
6/9/76	8/10/76	11,950	11,705					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
4224.6 GR	Penn. Seaman	11,509	11,462					
Perforations			Depth Casing Shoe					
11,509 to 11,533 w/2-.43 shots/ft.			11,767					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
17 1/2	13 3/8	965	700 sx. circ.					
11	8 5/8	4,430	250 sx circ.					
7 7/8	5 1/2	11,767	450 sx circ.					

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
8/10/76	8/11/76	Flowing
Length of Test	Tubing Pressure	Casing Pressure
24 hrs.	230	0
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.
84 bbls.	100	0
		Choke Size
		10/64"
		Gas-MCF
		900-1

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Arnold Krakik
(Signature)

Asst. Superintendent

8/12/76

(Title)

(Date)

OIL CONSERVATION COMMISSION

APPROVED AUG 18 1976

BY *James L. Smith*

TITLE SUPERVISOR DISTRICT 1

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviate tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for all wells on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of own well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multi-completed wells.

WESTERN OIL PRODUCTIONS

P. O. Box 2355 • Telephone (505) 623-3131 • Roswell, New Mexico 88201

UNION STATE #1 1980' FNL & 660' FWL, Sec. 32, T-16S, R-33E, Lea County, New Mexico

7/10/76: DST #1 10,302' - 10,490'
Well Flow PF 30 min.
 ISI 90 min.
 2nd F 60 min.
 FSI 120 min.

Gas to surface 21 min.
 IHH 4759
 IF 0 min. 3 psi
 IFF 29 min. 463
 ISI 1924
 2nd Flow
 IP 619
 F 2nd Flow 59 min. 905
 FI 1869
 Recovered 90' GCDM, 1600' GCO w/approximately 2 to 3% water

7/13/76: DST #2 10,676' - 10,809'
Remnant PF 30 min.
 ISI 90 min.
 2nd F 90 min.
 FSI 240 min.
 Gas to surface in 16 min. on 3/8" choke, Gas press. varied from 10 to 18 psi
 Est. gas flow 50,000
 IHH 4927
 IF 0 min. 419
 FF 29 min. 465
 ISIP 1619
 I 2nd F 581
 F 2nd F 907
 FSIP 1551
 FHH 4904
 Sampler recovered 800 psi, 15.24 cu. ft. of gas, 700 cc oil, 200 cc of wtr.
 Recovered 2503' of GCO, 120' GCW, Temp. 140°

7/23/76: DST #3 11,430' - 11,553'
 IHH 5371
 Pre Flow 30 min. 982 to 1179
 ISI 120 min. 3870 psi
 2nd Flow 120 min. 1484 to 1899
 FSI 240 min. 3980 psi
 FHH 5349
 To open with fair blow, increase to strong blow, GFS 6 min., Flow rate 95 psi on 3/8" choke; Dropping to 8 psi in 30 min. Flow rate 220 MCF.
 Open tool on 2nd Flow with fair blow, increase to strong blow in 12 min. on 3/8" choke. Mud to surface in 29 min.. Oil to surface in 29 min.
 Estimated flow rate 10 Bbls. per hr. at 175 psi on 3/8" ck. GOR 427 to 1
 In 1 hr. and 50 min. well died. Recovered 7600' (106 Bbls) GCO. Gas flow 220 MCF to 600 MCF. Sampler 1300 psi with 3.93 cu. ft. of gas, 1450 cc oil.

7/28/76: DST #4 11,614' - 11,904'
Seaman IHH 5725
 Pre Flow 30 min. 327 to 414
 ISI 4134 180 min.
 2nd Flow 120 min. 496 to 766
 FSI 3147 300 min.
 FHH 5526
 Sampler 600 psi, 650 cc oil, 3163 cu. ft. of gas, no water, 142° temp.
 Total recovered - 3500' GCO
 Opened tool with fair blow on 3/8" ck. press. reached 17 psi, dropping to 15 psi
 Opened tool on 2nd flow with fair flow, press. reaching 20 psi, dropping to 4 psi and dying in 1 hr.
 Est. gas flow 20 psi on 3/8" ck. 50 MCF

HALLIBURTON SERVICES JOB SUMMARY

FORM 1012 N-1

HALLIBURTON
DIVISION

Midland

HALLIBURTON
LOCATION

Lovington

BILLED ON
TICKET NO.

091651

WELL DATA

FIELD	SEC.	TWP.	RNG.	COUNTY	Lea	STATE	N.M.
FORMATION NAME	Seman			TYPE			
FORMATION THICKNESS	FROM			TO			
INITIAL PROD. OIL	BPD. WATER			BPD. GAS	MCPD		
PRES. PROD. OIL	BPD. WATER			BPD. GAS	MCPD		
COMPLETION DATE	MUD TYPE			MUD WT.			
PACKER TYPE	Guiberson			SET AT	11488		
BOTTOM HOLE TEMP.	PRESSURE						
MISC. DATA							

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING		5 1/2	0	td		
LINER						
TUBING		2 3/8	0	11548		
OPEN HOLE					TOTAL DEPTH	
PERFORATIONS			11509	11533		SHOTS/FT.
PERFORATIONS						SHOTS/FT.
PERFORATIONS						SHOTS/FT.

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID	acid	DENSITY	8.9	LB/GAL. API
DISPL. FLUID	trtd. water	DENSITY	8.3	LB/GAL. API
PROP. TYPE		SIZE		LB.
PROP. TYPE		SIZE		LB.
ACID TYPE	NE	GAL.	1000	% 15
ACID TYPE		GAL.		%
ACID TYPE		GAL.		%
SURFACTANT TYPE		GAL.		IN
NE AGENT TYPE	14N	GAL.	3	IN 1000
FLUID LOSS ADD. TYPE		GAL.-LB.		IN
GELLING AGENT TYPE		GAL.-LB.		IN
FRIC. RED. AGENT TYPE		GAL.-LB.		IN
BREAKER TYPE		GAL.-LB.		IN
BLOCKING AGENT TYPE		GAL.-LB.		
PERFPAC BALLS TYPE		QTY.		
OTHER	1 gal. HAI 50			
OTHER				

JOB DATA

DATE	8/7/76	DATE	8/7/76	DATE	8/7/76	DATE	8/7/76
TIME	10:00	TIME	11:30	TIME	13:08	TIME	16:27

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Bethany	treater	Lovington
R. Denney		

DEPARTMENT

DESCRIPTION OF JOB

JOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TRG./ANN. ☐

CUSTOMER REPRESENTATIVE ☒ Gene Snow

HALLIBURTON OPERATOR Bethany

COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF BAGS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
						circulate hole 9100		
						backside 294 gal.		

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING	DISPLACEMENT	5500	PREFLUSH: BBL-GAL.	TYPE
BREAKDOWN	3000	MAXIMUM	5500	LOAD & SKDN: BBL-GAL.
ERAGE	4900	FRAC. GRADIENT	2800	TREATMENT: BBL-GAL.
7-IN: INSTANT	1 1/2	3-MIN.	2700	CEMENT SLURRY: BBL-GAL.
HYDRAULIC HORSEPOWER	1	USED	12314	TOTAL VOLUME: BBL-GAL.
AVAILABLE	1 1/2	OVERALL	1 1/2	REMARKS
DISPL.				
CEMENT LEFT IN PIPE				
REASON				

CUSTOMER
WESTERN OIL PRODUCERS

UNION

WELL NO.

1

JOB TYPE

acid

DATE

8/7/76

JOB LOG

TICKET NO.

CUSTOMER

WESTERN OIL PRODUCERS

PAGE NO.

•

JOB TYPE

acid

DATE _____

8/7/76'

FORM 2013 R-1

[illegible]

HALLIBURTON SERVICES

JOB SUMMARY

FORM 1012 R-1

HALLIBURTON
DIVISION

Midland

HALLIBURTON
LOCATION

Lovington

BILLED ON
TICKET NO.

091655

WELL DATA

FIELD	SEC.	TWP.	RNG.	COUNTY	Lea	STATE	N.M.
FORMATION NAME	Seman		TYPE				
FORMATION THICKNESS	FROM		TO				
INITIAL PROD: OIL	BPD: WATER	BPD: GAS	MCPD				
PRES. PROD: OIL	BPD: WATER	BPD: GAS	MCPD				
COMPLETION DATE	MUD TYPE	MUD WT.					
PACKER TYPE	Guiberson		SET AT	11487			
BOTTOM HOLE TEMP.	PRESSURE						
MISC. DATA							

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING		5 1/2	0	fd		
LINER						
TUBING		3/8	0	11487		
OPEN HOLE						
PERFORATIONS			11509	11533		SHOTS/FT.
PERFORATIONS						SHOTS/FT.
PERFORATIONS						SHOTS/FT.

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8/18/76	DATE 8/18/76	DATE 8/18/76	DATE 8/18/76
TIME 5:00	TIME 7:30	TIME 10:29	TIME 11:15

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Bethany	treater	Lovington
H. Dority		
J. Fugua		
J. Tull		
R. Martin		
D. McCulloch		
J. Baker		
R. Decker		
H. Elms	treater	
M. Stewart	acid	Artesia
B. Hamiton		

DEPARTMENT _____

DESCRIPTION OF JOB _____

JOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TBO./ANN. ☐

CUSTOMER REPRESENTATIVE **X** Mr. Snow

HALLIBURTON OPERATOR Bethany

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____ 6300

BREAKDOWN 3000 MAXIMUM 8000

AVERAGE 6900 FRACTURE GRADIENT _____

SHUT-IN: INSTANT 4200 3-MIN. 3300 15-MIN. 2200

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE 1000 USED 719

AVERAGE RATES IN BPM _____

TREATING 4 DISPL. 5 OVERALL 4 1/4

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

SUMMARY

VOLUMES

PREFLUSH: BBL-GAL. _____ TYPE _____

LOAD & BKDN: BBL-GAL. _____ PADD: BBL-GAL. _____

TREATMENT: BBL-GAL. 96 DISPL: BBL-GAL. 46

CEMENT SLURRY: BBL-GAL. _____

TOTAL VOLUME: BBL-GAL. 142

REMARKS

WESTERN OIL PRODUCERS

UNION

1

acid

3/18/76

JOB LOG

WESTERN OIL PRODUCERS

1

JOB TYPE

acid & balls

DATE _____

8/18/78

[illegible]

RECEIVED		BEFORE EXAMINER STAMETS		CASE 5757 EXHIBIT # 6	
DISTRIBUTION	SANTA FE	OIL CONSERVATION COMMISSION		EXHIBIT NO. 1	
FILE	U.S.G.S.	LAND OFFICE		AUG 17 9 51 AM '66	
OPERATOR	CASINO	Submitted by		State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
5. State Oil & Gas Lease No.				E-881	
SHOULD NOT BE USED FOR PROPOSALS TO DRILL OR TO RE-DRILL OR TO PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.					
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>				7. Unit Agreement Name	
2. Name of Operator				Northeast Maljamar Unit	
3. Address of Operator				8. Farm or Lease Name	
P. O. Box 837, Hobbs, New Mexico				Northeast Maljamar Unit	
4. Location of Well				9. Well No.	
UNIT LETTER F 1920 FEET FROM THE North LINE AND 1930 FEET FROM THE West LINE, SECTION 5 TOWNSHIP 17 RANGE 33 N.M.P.M.				10. Field and Pool, or Wildcat	
15. Elevation (Show whether DF, RT, GR, etc.)				12. County	
4235 KB				Lea	

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐
 TEMPORARILY ABANDON ☐
 PULL OR ALTER CASING ☐
 OTHER ☐

PLUG AND ABANDON ☐
 CHANGE PLANS ☐
 OTHER ☐

REMEDIAL WORK ☒
 COMMENCE DRILLING OPNS. ☐
 CASING TEST AND CEMENT JOB ☒
 OTHER ☐

ALTERING CASING ☐
 PLUG AND ABANDONMENT ☒
 OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The following work has been done, commencing April 13, 1966 and finished April 24, 1966:

1. Lea County Casing Pullers rigged up and spotted 25 sacks cement over Bursum perforations.
2. Loaded hole with mud and shot casing off at 8300' and pulled.
3. Ran tubing and spotted 25 sacks cement plugs at 8300', 7858', 7196', 5871', & 5600'.
4. Ran 4-1/2", 11.6#, H-80 casing liner to 5250' and hung at 4216'. Cemented with 140 sacks Class "C" with 11# salt per sack and 170 sacks 50-50 Poz "G" Type II with 2% Gel, 3/4% CFR-2, and 10# salt/sack. Pumped plug to 5216 at 3:00 P.M. 4/20/66. Released tubing from liner and pulled.
5. After 24 hours tested casing to 2000 psi for 30 minutes. O.K. Ran tubing with bit and drilled out 2' cement at 4248-50'. Tested casing to 2000 psi for 30 minutes. O.K.
6. Ran GR-CCL Log and perforated 10 holes at 5102-20.
7. Ran packer and acidized with 1000 gallons 15% N.E.
8. Swabbed load and 83 Wbls. formation water. No shows of oil or gas.
9. Shut in.

THE COMMISSION MUST BE NOTIFIED
 EVERY 6 MONTHS ON FORM C-103
 AS TO THE WELL STATUS AND YOUR
 FUTURE PLANS FOR THIS WELL

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

original signed by:
 LESTER L. DUKE

SIGNED _____ TITLE District Superintendent DATE August 16, 1966

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

LOCATION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-1
Supersedes Old
C-102 and C-103
Effective 1-1-65

SUNDRY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)</small>		5a. Indicate Type of Lease State <input checked="" type="checkbox"/> For <input type="checkbox"/>
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-		5. State Oil & Gas Lease No. E-831
2. Name of Operator Antec Oil & Gas Company		7. Unit Agreement Name Northeast Malj. Unit
3. Address of Operator P.O. Box 637, Hobbs, New Mexico 88240		8. Name of Lease Northeast Malj. Unit
4. Location of Well UNIT LETTER <u>F</u> <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>5</u> TOWNSHIP <u>17S</u> RANGE <u>33</u> NMPM.		9. Well No. 2
15. Elevation (Show whether DF, RT, GR, etc.) 4235 KB		10. Field and Pool, or Wildcat Undesignated
12. County Lea		

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/> COMMENCE DRILLING OPS. <input type="checkbox"/> CASING TEST AND CEMENT JOBS <input type="checkbox"/> OTHER <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Under study for recompletion in November, 1974. If not commercial, will P & A.

Expires 10/1/75

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

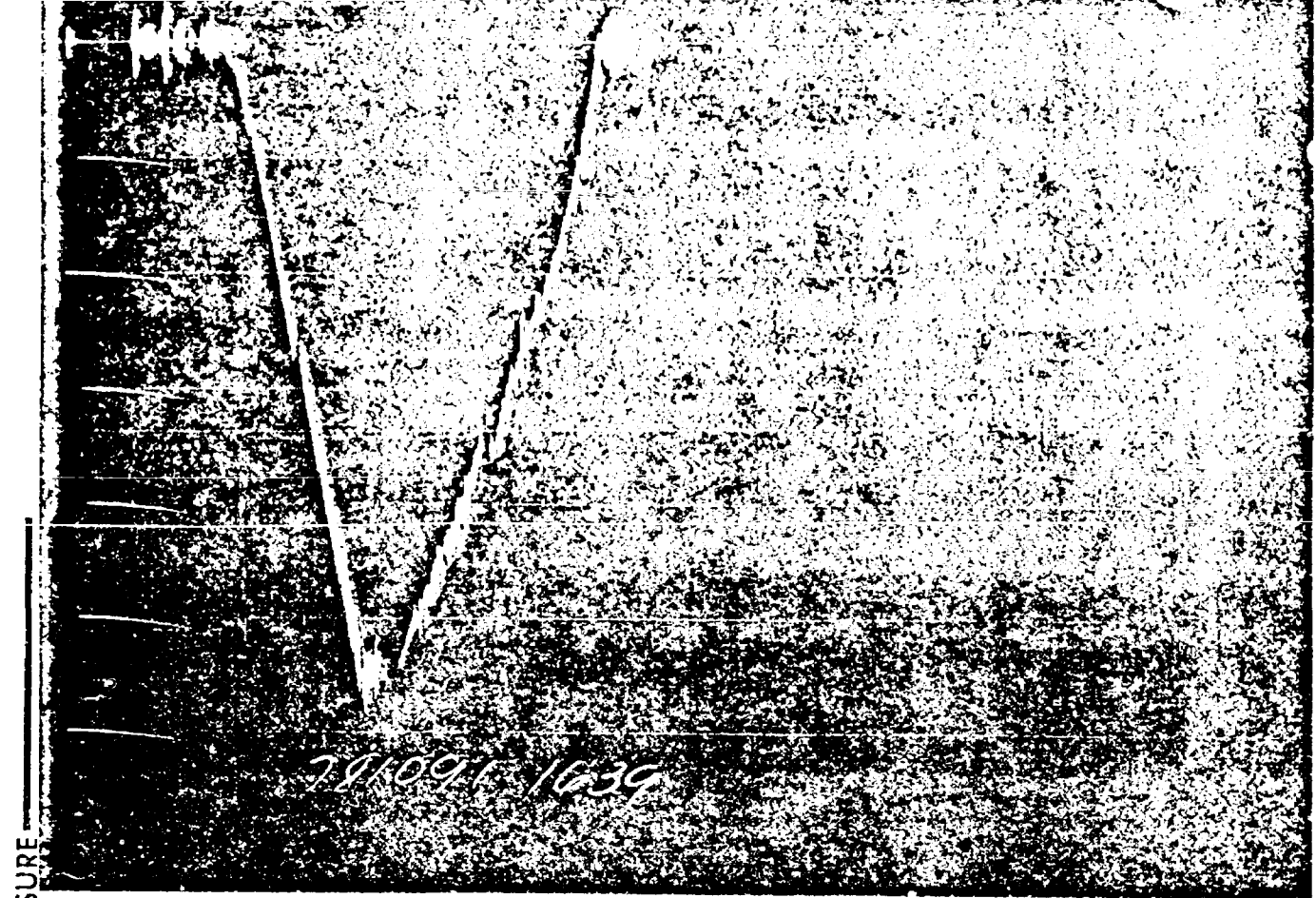
SIGNED L. L. D. D. D. D. TITLE District Superintendent DATE 10/7/74

APPROVED BY Joe D. D. D. TITLE DATE OCT 10 1974

CONDITIONS OF APPROVAL, IF ANY:

LITTON, E. S. 25571, 10M 2/32

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve	4 "	3.340"	11091'	
Drill Pipe	6"	2.25"		
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	4'	
Hydro-Spring Tester				
Multiple CIP Sampler	5"		4'	
Extension Joint	5"	1"	10'	
AP Running Case	5"	3.75"	4'	
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1'	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5 3/4"	1.50"	4'	
Side Wall Anchor				
Drill Collars	6"	2.25"	242'	
Flush Joint Anchor	5 3/4"	2.87"	33'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	5'	
Total Depth				11902'



Each Horizontal Line Equal to 1000 p.s.i.

FLUID SAMPLE DATA					Date 7-12-76		CASE 5757 EXHIBIT # 10																																																																																						
Sampler Pressure	800	P.S.I.G. at Surface	Kind of Job	OPEN HOLE																																																																																									
Recovery: Cu. Ft. Gas	15.240		Tester	MR. RITTER		Witness	MR. REYNOLDS																																																																																						
cc. Oil	700		Drilling Contractor	WEK DRILLING COMPANY			BC S																																																																																						
cc. Water	200		EQUIPMENT & HOLE DATA																																																																																										
cc. Mud			Formation Tested	Perma Pennsylvania																																																																																									
Tot. Liquid cc.	900		Elevation																																																																																										
Gravity	34.8	* API @ 60 *F.	Net Productive Interval	29'																																																																																									
Gas/Oil Ratio		cu. ft./bbl.	All Depths Measured From	Kelly Bushing																																																																																									
		RESISTIVITY	Total Depth	10809'																																																																																									
		CHLORIDE CONTENT	Main Hole/Casing Size	7 7/8"																																																																																									
Recovery Water	@	*F. ppm	Drill Collar Length	633' I.D. 2.25"																																																																																									
Recovery Mud	@	*F. ppm	Drill Pipe Length	10098' I.D. 3.826"																																																																																									
Recovery Mud Filtrate	@	*F. ppm	Packer Depth(s)	10670' - 10676'																																																																																									
Mud Pit Sample	@	*F. ppm	Depth Tester Valve	10653'																																																																																									
Mud Pit Sample Filtrate	@	*F. ppm																																																																																											
Mud Weight	6.7	vis 43 Sec.-cp.																																																																																											
Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke																																																																																								
			Ft.	1" ADJ.	.75"																																																																																								
Recovered	2503	Feet of	Gas cut oil																																																																																										
Recovered	120	Feet of	Gas cut salt water																																																																																										
Recovered		Feet of																																																																																											
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Remarks	SEE PRODUCTION TEST DATA SHEET.																																																																																												
	Buildups indicate possibly 2 zones open....																																																																																												
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION</p> <p>EXHIBIT NO. _____</p> <p>CASE NO. _____</p> <p>Submitted by _____</p> <p>Hearing Date _____</p> </div>																																																																																													
<table border="1"> <thead> <tr> <th>TEMPERATURE</th> <th>Gauge No. 1920</th> <th>Gauge No. 1919</th> <th>Gauge No.</th> <th>TIME</th> </tr> <tr> <td></td> <td>Depth: 10658' Ft.</td> <td>Depth: 10805' Ft.</td> <td>Depth: _____ Ft.</td> <td></td> </tr> </thead> <tbody> <tr> <td>Est. *F.</td> <td>Blanked Off NO</td> <td>Blanked Off YES</td> <td>Blanked Off</td> <td>Tool Opened 4:45 A.M.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Opened 12:45 A.M.</td> </tr> <tr> <td>Actual 140 *F.</td> <td colspan="3">Pressures</td> <td>Bypass P.M.</td> </tr> <tr> <td></td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> </tr> <tr> <td>Initial Hydrostatic</td> <td>4837</td> <td>4867</td> <td>4927</td> <td>4929</td> </tr> <tr> <td>First Period Flow Initial</td> <td>232</td> <td>241</td> <td>419</td> <td>360</td> </tr> <tr> <td>Final</td> <td>394</td> <td>442</td> <td>465</td> <td>507</td> </tr> <tr> <td>Closed in</td> <td>1572</td> <td>1578</td> <td>1619</td> <td>1615</td> </tr> <tr> <td>Second Period Flow Initial</td> <td>509</td> <td>530</td> <td>581</td> <td>551</td> </tr> <tr> <td>Final</td> <td>903</td> <td>912</td> <td>907</td> <td>947</td> </tr> <tr> <td>Closed in</td> <td>1502</td> <td>1532</td> <td>1551</td> <td>1569</td> </tr> <tr> <td>Third Period Flow Initial</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed in</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Hydrostatic</td> <td>4914</td> <td>4841</td> <td>4904</td> <td>4897</td> </tr> </tbody> </table>									TEMPERATURE	Gauge No. 1920	Gauge No. 1919	Gauge No.	TIME		Depth: 10658' Ft.	Depth: 10805' Ft.	Depth: _____ Ft.		Est. *F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Opened 4:45 A.M.					Opened 12:45 A.M.	Actual 140 *F.	Pressures			Bypass P.M.		Field	Office	Field	Office	Initial Hydrostatic	4837	4867	4927	4929	First Period Flow Initial	232	241	419	360	Final	394	442	465	507	Closed in	1572	1578	1619	1615	Second Period Flow Initial	509	530	581	551	Final	903	912	907	947	Closed in	1502	1532	1551	1569	Third Period Flow Initial					Final					Closed in					Final Hydrostatic	4914	4841	4904	4897
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FORM 101-R-1-PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 26411 10/4 0/71

ON STATE

Lease Name

Well No.

Test No.

Tested Interval

WESTERN OIL PRODUCERS

Lease Owner/Company Name

Field Area

KEMNITZ

County

LEA

State

NEW MEXICO

32 - 16 - 33

Field Area

KEMNITZ

County

LEA

State

NEW MEXICO

10676' - 10809'

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 760058
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED: 1" ADJ. 60# Gauge

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
4:45		1/4"				Opened tool with a fair blow
4:50		"	3			Blow increased to good
4:55		"	6			
5:00		3/8"	12			Gas to surface in 16 minutes
5:05		"	17	108.8		
5:10		"	17			
5:15		"	16	105.4		Closed tool
7:15		"				Opened tool, gas flared
7:20		"				
7:30		"	4			
7:40		"	9			
7:50		"	7			
8:00		"	9			
8:10		"	5			
8:20		"	7			
8:30		"	7			
8:40		"	6			
8:45		"	6 1/2			Closed tool
12:45						Opened by-pass

Gauge No. 1920			Depth 10658'			Clock No. 13736			24 hour		Ticket No. 760058			
First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{1+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{1+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{1+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	241	.0000		442	.0000	530	.0000		912				
1	.0134	306*	.0428		1237**	.0503	558	.0667		1325				
2	.0031	345	.0822		1463	.1007	660	.1333		1459				
3	.0468	333-C	.1217		1528	.1510	722	.2000		1484				
4	.0636	382	.1612		1544	.2013	574	.2667		1495				
5	.0803	412	.2006		1553	.2517	854	.3333		1505				
6	.0970	442	.2401		1562	.3020	912	.4000		1514				
7			.2796		1567			.4667		1518				
8			.3191		1574			.5333		1521				
9			.3585		1576			.6000		1525				
10			.3980		1578			.6667		1528				
11								.7333		1530				
12								.8000		1532				
13														
14														
15														

Gauge No. 1919			Depth 10805'			Clock No. 6728			24 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	360	.0000		507	.0000	551	.0000		947
1	.0132	447*	.0435		1275	.0506	584	.0673		1360
2	.0298	428	.0837		1498	.1013	693	.1347		1491
3	.0463	453-C	.1238		1562	.1520	753	.2020		1516
4	.0629	463	.1640		1578	.2027	840	.2693		1532
5	.0794	484	.2042		1589	.2533	888	.3367		1541
6	.0960	507	.2443		1596	.3040	947	.4040		1548
7			.2845		1603			.4713		1555
8			.3247		1608			.5387		1560
9			.3648		1612			.6060		1562
10			.4050		1615			.6733		1564
11								.7407		1567
12								.8080		1569
13										
14										
15										

Reading Interval 5 12 15 20 Minutes

REMARKS: *Interval = 4 minutes **Interval = 13 minutes C = Choke change

← PRESSURE

TIME →

100058-1920

100058-1919

Each Horizontal Line Equal to 1000 p.s.i.

Case 5757

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

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

TELEPHONE 982-4315
AREA CODE 505

August 20, 1976

Mr. Joe Ramey, Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed please find the original and two copies
of the application of Western Oil Producers, Inc.,
for the adoption of pool rules for the Maljamar-
Pannsylvania Pool. We would appreciate this being
set for the September 15, 1976 hearing.

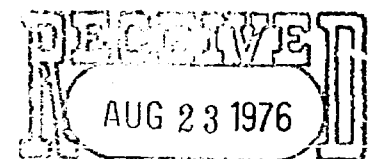
Yours very truly,

Jason Kellahin
Jason W. Kellahin

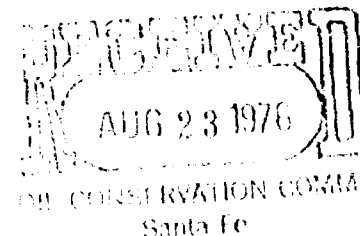
CC: Mr. Ken Reynolds

JWK:kjf

Enclosure



OIL CONSERVATION COMM.
Santa Fe



BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF WESTERN OIL PRODUCERS, INC.,
FOR THE ADOPTION OF POOL RULES FOR
THE MALJAMAR-PENNSYLVANIAN POOL,
LEA COUNTY, NEW MEXICO

A P P L I C A T I O N

Comes now Western Oil Producers, Inc., and applies to the Oil Conservation Commission for the adoption of pool rules for the Maljamar-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units, and in support thereof would show the Commission:

1. Applicant has completed its Union State No. 1 well located 1980 feet from the North line, and 660 feet from the West line of Section 32, ⁰⁴ Township 16 South, Range 33 East, which well is located within one mile of the exterior boundaries of the Maljamar-Pennsylvanian Pool, and is, at the present time the only well producing from the Pool.
2. The Maljamar-Pennsylvanian Pool was established by Commission Order No. R-2552 entered September 1, 1963, as an oil pool, under state-wide spacing and proration rules.
3. Applicant's well was drilled to a total depth of 11,950 feet, and completed in the interval from 11,509 to 11,532 feet in the Seaman formation of the Pennsylvanian.
4. Producing characteristics and available information indicate that one well in the Maljamar-Pennsylvanian Pool will efficiently and economically drain and develop not less than

160 acres, and to develop it on lesser spacing would constitute economic waste, and would not result in the recovery of additional oil or gas.

5. Approval of this application will result in the prevention of waste, and correlative rights of other operators and interest owners will not be impaired.

WHEREFORE applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as provided by law, the Commission enter its order adopting pool rules for the Maljamar-Pennsylvanian Pool, with provision for 160-acre spacing and proration units, as requested.

Respectfully submitted,
WESTERN OIL PRODUCERS, INC.,

By Jason Kellahin
KELLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

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. 5757
Order No. R-5296

NOMENCLATURE ?

APPLICATION OF WESTERN OIL PRODUCERS
FOR SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 15, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of October, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant seeks the promulgation of special rules for the Maljamar-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre proration units.

(3) That the horizontal limits of said pool consist of the NW/4 of Section 5, Township 17 South, Range 33 East, NMPM, Lea County, New Mexico.

(4) That said Maljamar-Pennsylvanian Pool has been abandoned for several years.

(5) That the applicant has completed its Union State Well No. 1 in Unit ^E of Section 32, Township 16 South, Range 33 East, NMPM, Lea County, New Mexico, in the Pennsylvanian formation within one mile of said Maljamar-Pennsylvanian Pool.

(6) That ~~under Commission Rules and Regulations, said~~ ^{applicant's} Union State well No. 1 is governed by the Maljamar-Pennsylvanian Pool rules. *Should be extended to take in said Union State Well No. 1.*

(7) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of

risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 160-acre spacing units should be promulgated for the ~~South Maljamar Strawn Pool~~. *Maljamar-Pennsylvanian Pool*

(8) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(9) That the temporary special rules and regulations should provide for a depth bracket allowable of ~~445~~ ⁶⁰⁵ barrels.

(10) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(11) That this case should be reopened at an examiner hearing in ~~April~~ ^{October}, 1977, at which time the operators in the subject pool should be prepared to appear and show cause why the ~~South Maljamar Strawn Pool~~ should not be developed on 40-acre spacing units. *Maljamar-Pennsylvanian Pool*

IT IS THEREFORE ORDERED:

*On October 1, 1977, the undersigned
examiner, after hearing the testimony of the
parties, and after considering the evidence
presented, so finds that the
proposed 16 South Range 22 East 40-acre
spacing unit is reasonable.*

Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the ~~South~~
~~Maljamar Strawn~~ Pool shall be located on a unit containing 160-
Pennsylvanian

acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Lands Survey.

RULE 3. Each well completed or recompleted in said pool shall not be drilled closer than 660 feet to any quarter section line nor closer than 330 feet to any quarter-quarter section line.

RULE 4. For good cause shown, the Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising less than 160 acres. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director of the Commission may approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to a standard allowable in the ~~South Maljamar-Strawn~~ Pool as the acreage in such non-standard unit bears to 160 acres.

RULE 5. A standard proration unit (158 through 162 acres) in the ~~South Maljamar-Strawn~~ Pool shall be assigned a depth bracket allowable of ~~60~~ 55 barrels, subject to the market demand percentage factor, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit in any proportion.

IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the ~~South Maljamar-Strawn~~ Pool or in the ~~Strawn~~ ^{Strawn} formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs district office of the Commission in writing of the name and location of the well on or before ~~June 1~~ ^{December}, 1976.

(2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the ~~South Maljamar-Strawn~~ Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 160 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable. . . Until said Form C-102 has been filed or until a non-standard unit

Pennsylvania has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the ~~South~~ Maljamar-~~Strawn~~ Pool or in the Strawn formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

(3) That this case shall be reopened at an examiner hearing in ~~April~~ *April*, 1977, at which time the operators in the subject pool should be prepared to appear and show cause why the ~~South~~ Maljamar-~~Strawn~~ Pool should not be developed on 40-acre spacing units. *Pennsylvania*

(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

PHIL R. LUCERO, Chairman

Emery C. Arnold
EMERY C. ARNOLD, Member

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

S E A L

jr/

DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 5757

Order No. R- 5296-A

IN THE MATTER OF CASE 5757 BEING REOPENED
PURSUANT TO THE PROVISIONS OF ORDER NO. R-5296,
WHICH ORDER ESTABLISHED TEMPORARY SPECIAL POOL RULES
FOR THE MALJAMAR-PENNSYLVANIAN POOL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 12,
19 77, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of November, 19 77, 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 by Order No. R-5296, dated October 12, 1976,
temporary special rules and regulations were promulgated for the
Maljamar-Pennsylvanian Pool, Lea County, New Mexico, establishing
temporary 160-acre spacing units and proration units.

-2-
Case No. 5757
Order No. R-5296-A

(3) That pursuant to the provisions of Order No. R-5296, this case was reopened to allow the operators in the subject pool to appear and show cause why the Maljamar-Pennsylvanian Pool should not be developed on 40-acre spacing units.

(4) That no operator appeared to present testimony in the subject case.

(5) That in the absence of any testimony, the temporary special pool rules for said Maljamar-Pennsylvanian Pool should be rescinded.

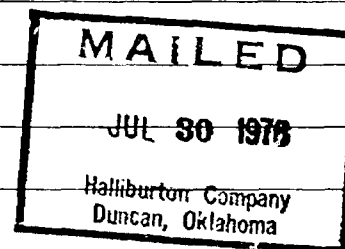
IT IS THEREFORE ORDERED:

(1) That effective December 1, 1977 the Special Rules and Regulations governing the Maljamar-Pennsylvanian Pool, promulgated by Order No. R-5296, are hereby rescinded.

(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.

FLUID SAMPLE DATA				Date 7-22-76		Ticket Number 781090	
Sampler Pressure 1300 P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District ARTESIA	
Recovery: Cu. Ft. Gas 3.93				Tester MR. MURDOCK		Witness MR. REYNOLDS	
cc. Oil 1450				Drilling Contractor W E K DRILLING COMPANY SM			
cc. Water				EQUIPMENT & HOLE DATA			
cc. Mud				Formation Tested Seaman			
Tot. Liquid cc.				Elevation - Ft.			
Gravity 38 ° API @ 60 ° F.				Net Productive Interval 40' Ft.			
Gas/Oil Ratio 430 cu. ft./bbl.				All Depths Measured From 12' above ground level			
RESISTIVITY				Total Depth 11553' Ft.			
CHLORIDE CONTENT				Main Hole/Casing Size 7 7/8"			
Recovery Water @ ° F. ppm				Drill Collar Length 666' I.D. 2.25"			
Recovery Mud @ ° F. ppm				Drill Pipe Length 10724' I.D. 3.826"			
Recovery Mud Filtrate @ ° F. ppm				Packer Depth(s) 11424-11430' Ft.			
Mud Pit Sample @ ° F. ppm				Depth Tester Valve 11390' Ft.			
Mud Pit Sample Filtrate @ ° F. ppm							
Mud Weight 8.8 vis 42 sec 90%							
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
				Ft.	1" Adj.	.75"	
Recovered		7600 Feet of gas cut oil					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET							
TEMPERATURE		Gauge No. 1639		Gauge No. 1638		Gauge No.	
		Depth: 11408 Ft.		Depth: 11550 Ft.		Depth: Ft.	
		24 Hour Clock		24 Hour Clock		Hour Clock	
Est. ° F.		Blanked Off no		Blanked Off yes		Blanked Off	
Actual 128 ° F.		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	5364	5371	5392		
First Period	Flow Initial	953	1143	982	1290		
	Flow Final	1196	1238	1179	1253		
	Closed in	3869	3874	3870	3893		
Second Period	Flow Initial	1438	1485	1484	1550		
	Flow Final	1856	1899	1899	1919		
	Closed in	3935	3989	3980	4011		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		-	5364	5349	5385		



FORMATION TEST DATA

FORM 181-R-1-PRINTED IN U.S.A.

LITTLE 5 25471 10M 8/74

UNION STATE
 Lease Name
 Well No. 1
 Test No. 3
 11430 - 11553'
 Tested Interval
 Field Area WEST KEMNITZ
 County LEA
 State NEW MEXICO
 Western Oil Producers
 Lease Owner/Company Name

Casing perms. _____		Bottom choke _____		Surf. temp. _____ °F		Ticket No. 781090	
Gas gravity _____		Oil gravity _____		GOR _____			
Spec. gravity _____		Chlorides _____		ppm Res. _____		@ _____ °F	
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____							

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
8:30						Opened tool with fair blow
8:32		3/8"				Set choke
8:36		"	65	221		Gas to the surface
8:45		"	80	272		
8:52		"	95	323		
8:55		"	90	306		Pressure dropped
9:00		"	80	272		Closed tool
11:00		1/4"				Opened tool, flared gas
11:15		1/4"	0			
11:25		1/4"	65			Rat hole mud to the surface
11:29		3/8"	75			Gas & oil to the surface
11:35		"	95			"
11:40		"	100			"
11:45		"	145	408		Gas
11:48		"	75			Oil & gas
11:55		"	175	595		
12:08		"				Oil
12:10		"	100	340		Gas
12:15		"	70	238		
12:20		"	60	204		
12:30		"	25	85		
12:45		"	10	34		
12:50		"	0			
13:00		"				Closed tool
17:00						Pulled tools
18:30						Pulled 16 stds and reversed out

Gauge No. 1639			Depth 11408'			Clock No. 13428			24 hour		Ticket No. 781090					
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
0	.0000	1143	.0000		1238	.0000	1485	.0000		1899						
1	.0157	969	.0340*		1606	.0727**	1716	.0813		2249						
2	.0313	1037	.0748		1881	(.1090-C 1771)		.1626		2541						
3	.0470	1099	.1155		2108	.1387	1786	.2439		2943						
4	.0627	1143	.1563		2307	.2048	1753	.3252		3322						
5	.0784	1203	.1971		2517	.2709	1738	.4065		3572						
6	.0940	1238	.2379		2773	.3370	1797	.4878		3710						
7			.2787		3120	.4030	1899	.5691		3809						
8			.3194		3448			.6504		3878						
9			.3602		3705			.7317		3938						
10			.4010		3874			.8130		3989						
11																
12																
13																
14																
15																

Gauge No. 1638			Depth 11550'			Clock No.			hour						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	1290	.0000		1253	.0000	1550	.0000		1919					
1	.0165	987	.0336*		1500	.0734**	1723	.0801		2269					
2	.0330	1048	.0738		1876	(.1140-C 1793)		.1602		2562					
3	.0495	1111	.1141		2107	.1401	1803	.2403		2952					
4	.0660	1157	.1544		2313	.2068	1775	.3204		3340					
5	.0825	1218	.1946		2521	.2736	1758	.4005		3594					
6	.0990	1253	.2349		2790	.3403	1812	.4806		3735					
7			.2752		3145	.4070	1919	.5607		3829					
8			.3155		3463			.6408		3901					
9			.3557		3706			.7209		3961					
10			.3960		3893			.8010		4011					
11															
12															
13															
14															
15															

Reading Interval 5 12 20 24 Minutes

REMARKS: *First interval is equal to 10 minutes. ** = 22 minutes.
C = choke change

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	10724'	
Drill Collars	5 3/4"	2.25"	666'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	4'	11390'
Multiple CIP Sampler	5"		4'	
Extension Joint	5"	1"	10'	
AP Running Case	5"	3.75"	4'	11408'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	11424'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	11430'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint	5 3/4"	1.50"	4'	
Side Wall Anchor				
Drill Collars	5 3/4"	2.25"	89'	
Flush Joint Anchor	5 3/4"	2.87"		
Blanked-Off B.T. Running Case	5 3/4"	2.50"	5'	11550'
Total Depth				11553'

