

CASE 5071: Application of TEXAS
WEST OIL & GAS CORPORATION FOR A
DUAL COMPLETION, LEA COUNTY.

CASE No.

5071

Application,

Transcripts,

Small Exhibits

ETC.

dearnley, meier & associates

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87103
1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
CONFERENCE ROOM, STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
October 3, 1973

EXAMINER HEARING

IN THE MATTER OF:)
)
Application of Texas West Oil)
& Gas Corporation for a dual)
completion, Lea County,)
New Mexico.)

Case No. 5071

BEFORE: RICHARD L. STAMETS,
Examiner.

TRANSCRIPT OF HEARING

1 MR. STAMETS: The hearing will come to order,
2 please. We will call next case 5071.

3 MR. DERRYBERRY: Case 5071, Application of Texas
4 West Oil & Gas Corporation for a dual completion,
5 Lea County, New Mexico.

6 MR. EATON: Paul Eaton of the firm of Hinkle,
7 Bondurant, Cox & Eaton, representing the applicant.
8 We have one witness, Mr. Roy Valla.

9 MR. STAMETS: Are there any other appearances
10 in this case? The witness will stand and be sworn.

11 * * * * *

12 ROY VALLA,
13 was called as a witness, and after being duly sworn,
14 testified as follows:

15 DIRECT EXAMINATION

16 BY MR. EATON:

17 Q State your name, by whom you are employed and in
18 what capacity.

19 A My name is Roy K. Valla. I'm employed by Texas West
20 Oil & Gas Corporation. I am a petroleum engineer.

21 Q Mr. Valla, are you familiar with the application in
22 this case?

23 A Yes, I am.

24 Q Have you previously testified before this Commission
25 as a petroleum engineer?

1 A Yes, I have.

2 MR. EATON: Are his qualifications acceptable?

3 MR. STAMETS: They are.

4 Q What does Texas West seek by their application?

5 A This application seeks approval of a dual completion
6 of our State "2" Well No. 2 located in Unit K of
7 Section 2, Township 24 South, Range 34 East, Antelope
8 Ridge Field Area, Lea County, New Mexico, to produce
9 gas from the Atoka and Morrow formations through
10 parallel strings of tubing.

11 Q Mr. Valla, have you prepared or have you supervised
12 the preparation of some exhibits which are attached
13 together in one brochure as Applicant's Exhibit 1?

14 A Yes, I have.

15 Q Turning to your brochure, the first sheet represents
16 the application; does it not?

17 A That is correct.

18 Q Is there anything with respect to the application
19 which you would like to bring out?

20 A No. This is simply a form C-107 New Mexico Oil
21 Conservation Commission Application for Multiple
22 Completion shutting out the producing limits of
23 both Atoka and Morrow gas zones here. Also it has
24 a list of all offset operators to this specific
25 well.

1 Q Now, turning to the next sheet, Mr. Valla, would
2 you please state what is portrayed there?

3 A This is a plat of the area, the Antelope Ridge Field
4 Area, showing our State "2" Well No. 2 in Section 2
5 outlined in red with a No. 2 well, the dual Atoka
6 and Morrow Well, with offset operators plus other wells
7 in the Antelope Ridge Field Area with two dual
8 completions that are indicated by red circles or red
9 dots in this case.

10 These dual completions have been effected from
11 the Devonian and Morrow by Shell Oil Company.

12 Q All right. Now, Mr. Valla, would you please give us
13 a history of the State "2" Well No. 2 and in doing so
14 make reference to the next sheet in your brochure?

15 A This is the New Mexico Oil Conservation Commission
16 Form C-105 which is the Well Completion Report and Log.
17 It indicates that the well was commenced in April of
18 1973, completed in August of 1973.

19 The drilling of this well encountered two
20 productive intervals, that being the Atoka which was
21 completed in an interval from 12,407 feet to 12,480 feet,
22 and the Morrow producing interval from 13,260 feet to
23 13,699 feet.

24 This also shows the tubing record which indicates
25 there are two strings of two and seven-eighths tubing

1 set in this well.

2 Q All right. Referring to the next Exhibit, Mr. Valla--

3 A This is a plat of Section 2 showing the offset operators
4 to this Section.

5 Q Did you send notices to the offset operators?

6 A Yes, we did. We sent a copy of our application for
7 dual completion to the four offset operators on
8 August 27, 1973.

9 Q Are the letters and their acknowledgments evident in
10 the brochure?

11 A Yes, they are. Waivers and approvals of this dual
12 completion from Shell Oil Company, Aztec Oil & Gas
13 Company, Penroc Oil Corporation, and Kewanee Oil Company.

14 Q All right. What acreage will be dedicated to the well?

15 A The Atoka formation will have the south 320 acres as
16 acreage dedication. The Morrow formation will have also
17 the south 320 acres dedicated to it.

18 Q And the dedication plats are reflected in the brochure?

19 A Yes, they are.

20 Q All right. Now, referring to the next sheet in the
21 brochure, would you please testify with respect to
22 that sheet?

23 A This is a sketch of the multiple completion installation.
24 If you refer to Number B which is a dual completion,
25 this indicates that the top packer is set at 12,250 feet

1 above the Atoka formation which was perforated from
2 12,407 to 12,480 feet.

3 The lower single packer is set at 13,170 feet
4 above the Morrow formation completion which is from
5 13,260 feet to 13,699 feet.

6 Q Do you have further information with respect to the
7 packer settings?

8 A Yes. The next two forms are Packer Setting Reports
9 for both of these packers, the first here being the
10 top packer which is a Baker, Model A-5, Dual Hydrostatic
11 Packer which is set at 12,250 feet. This packer was
12 set on August 10, 1973, and I have testified to this
13 setting.

14 The next is a packer setting report on the lower
15 packer which is a Baker, Model A-2 Loc-Set Packer set
16 at 13,170 feet. This packer was set on August 1, 1973,
17 and I have testified to this on this report.

18 Q Have you made a packer leakage test on this well?

19 A Yes, we have. The next form is the New Mexico Oil
20 Conservation Commission Southeast New Mexico Packer
21 Leakage Test. I believe it is fairly self-evident.
22 There are two charts following this which were taken
23 while we were flowing one zone and the other zone was
24 shut-in. It is fairly self-evident that there was
25 no communication between the zones.

1 Q Had the Commission been notified of the test before
2 it was made?

3 A Yes, they had.

4 Q And in your opinion, will the packers effectively
5 prevent communication between the two formations?

6 A Yes, they will.

7 Q Have you four-pointed this well?

8 A Yes. The next two forms are the New Mexico Oil
9 Conservation Commission Form C-122 which are Multipoint
10 Back Pressure Tests for gas wells. The first indicates
11 that the Atoka formation, the absolute open flow is
12 4.030 million cubic feet of gas per day.

13 The next is the potential test for the Morrow
14 formation which the open flow there is 4.153 million
15 cubic feet of gas per day.

16 Q Has the metering or testing equipment been installed
17 to determine reservoir pressures, amount of production
18 and so forth?

19 A Yes. There is surface equipment sufficient to meter
20 both liquid and gas production from both zones.

21 Q I meant to ask you, Mr. Valla, whether prior to the
22 actual completion of the well you made pressure tests
23 of the casing to determine the absence of casing leaks.

24 A Yes. These were all before the plugs were drilled,
25 were tested in accordance with the New Mexico Oil

Conservation Commission Rules.

Q In your opinion, can the gas from the Atoka formation and the gas from the Morrow formation be faithfully and efficiently produced through the two parallel strings of tubing?

A Yes, they can.

Q In your opinion, will the granting of the application be in the interest of conservation and the prevention of waste?

A That is correct.

Q Were these sheets in Exhibit 1 prepared by you or under your supervision?

A That is correct.

MR. EATON: We offer Exhibit 1 into evidence, Mr. Examiner.

MR. STAMETS: Without objection, Applicant's Exhibit 1 will be so admitted.

MR. EATON: We have no further direct testimony.

CROSS-EXAMINATION

BY MR. STAMETS:

Q Mr. Valla, I notice that the gas-oil ratio or gas-liquid ratio in the Atoka zone is quite low. Is this the situation that you have in the first Atoka well there?

A The gas-liquid ratio here--

1 Q On the Completion Log, it shows I believe 9500.

2 A Yes. It is quite low. This is a very prolific
3 condensate producer. Of course, the Morrow is
4 considerably drier but we, the Atoka made production
5 of 72 and a half barrels of condensate during a
6 test which I believe was of about an eight-hour duration.
7 It was for an eight-hour duration.

8 Q And No. 1 Atoka well in the North half of Section 2,
9 what's its gas-liquid ratio?

10 A It is approximately the same. It's not quite as
11 prolific as this, Mr. Examiner. These are limestone
12 reefs in the Atoka formation, and we do have evidence
13 that the producing zones in the No. 1 and No. 2 are
14 not exactly the same. However, they are both in the
15 Atoka reservoir.

16 Q These liquids are liquids in the reservoir? I assume
17 they are all liquids in the reservoir.

18 A That is correct.

19 Q Do you anticipate any problem in restricted rates
20 production in the Atoka causing a lower rate of
21 recovery in the liquids?

22 A No, sir. I don't.

23 Q If the Commission Staff would, or if the Examiner would
24 like to have additional information concerning this
25 particular problem, would Texas West have any objections

1 to furnishing that at a later date?

2 A No. No, we would not. Mr. Examiner, before we do
3 leave this, I would like to, excuse me. Go ahead,
4 Mr. Eaton.

5 MR. EATON: There was one final sheet in the
6 Exhibit, Mr. Examiner, which Mr. Valla has not testified
7 to.

8 *****

9 REDIRECT EXAMINATION

10 BY MR. EATON:

11 Q Would you please state what that sheet represents?

12 A This is a form filed by El Paso Natural Gas Company
13 who is the gas purchaser from Section 2, the wells
14 in Section 2, noting the date on which the Atoka
15 formation went on production from our State "2" No. 2.

16 Also, we would like, Texas West would like to
17 request emergency approval of this application so that
18 we can commence production from the Morrow reservoir
19 in this well.

20 Q After the packer leakage test form, there are copies
21 of two meter charts. Are these copies of the actual
22 charts that were on the meter when the packer leakage
23 test was being taken?

24 A That is correct.

25 Q And they do seem to show stabilization of the Atoka zone

1 while the Morrow was being flowed and a very stable
2 pressure on the Morrow while the Atoka was being
3 flowed?

4 A That is correct.

5 MR. STAMETS: Are there any other questions of
6 this witness? He may be excused. Anything further
7 in this case? We will take the case under advisement.

8 *****

9 REPORTER'S CERTIFICATE

10 I, JANET RUSSELL, a Court Reporter, in and for
11 the County of Bernalillo, State of New Mexico, do
12 hereby certify that the foregoing and attached Transcript
13 of Hearing before the New Mexico Oil Conservation
14 Commission was reported by me; and that the same is
15 a true and correct record of the said proceedings to
16 the best of my knowledge, skill and ability.

17 
18 COURT REPORTER

22 I do hereby certify that the foregoing is a true and correct record of the proceedings of the New Mexico Oil Conservation Commission, held on October 3, 1973, at 5071
23 Richard F. Darnley, Secretary
24 New Mexico Oil Conservation Commission
25

I N D E X

WITNESS,

ROY VALLA

Direct Examination by Mr. Eaton	<u>Page</u> 3
Cross-Examination by Mr. Stamets	9
Redirect Examination by Mr. Eaton	11

E X H I B I T S

Applicant's

Offered

Admitted

Exhibit 1	Map	9	9
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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. 5071
Order No. R-4644

APPLICATION OF TEXAS WEST OIL & GAS
CORPORATION FOR A DUAL COMPLETION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
October 3, 1973, at Santa Fe, New Mexico, before Examiner
Richard L. Stamets.

NOW, on this 11th day of October, 1973, 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, Texas West Oil & Gas Corporation,
seeks authority to complete its State "2" Well No. 2, located
in Unit K of Section 2, Township 24 South, Range 34 East, NMPM,
Lea County, New Mexico, as a dual completion (conventional) to
produce gas in the Antelope Ridge field area from the Atoka
and Morrow formations through parallel strings of 2 7/8-inch
tubing with packers set at approximately 12,250 feet and 13,170
feet.

(3) That the mechanics of the proposed dual completion are
feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent
waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texas West Oil & Gas Corporation,
is hereby authorized to complete its State "2" Well No. 2,
located in Unit K of Section 2, Township 24 South, Range 34
East, NMPM, Lea County, New Mexico, as a dual completion (con-
ventional) to produce gas in the Antelope Ridge field area from
the Atoka and Morrow formations through parallel strings of

-2-

Case No. 5071
Order No. R-4644

2 7/8-inch tubing with packers set at approximately 12,250 feet and 13,170 feet.


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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure Test Period for the Antelope Ridge-Morrow Gas Pool.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



L. R. Trujillo
L. R. TRUJILLO, Chairman

Alex J. Armiijo
ALEX J. ARMIJO, Member

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

S E A L

dr/



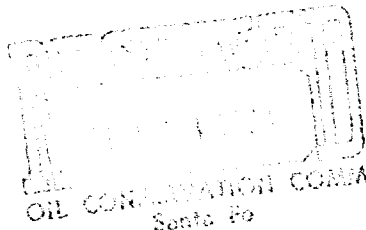
TEXAS WEST OIL & GAS CORPORATION

609 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

L. N. DUNNAVANT, President

DISTRICT OFFICE:

Lafayette, Louisiana 70501
F. L. Dischler, Manager
Oil Center Station, Box 52332
(318) 232-8387



Mr. Keptain's

(915) 684-5836

11 September 1973

J. D. Ramey, District Supervisor
NEW MEXICO OIL CONSERVATION COMMISSION
Box 1980
Hobbs, New Mexico 88240

Re: Texas West Oil & Gas Corporation's
State "2" #2, 1980' FS & WL's of
Section 2, T-24-S, R-34-E, Lea County,
New Mexico, Antelope Ridge Field.

Dear Mr. Ramey:

Please find attached two (2) executed copies of the Dual Completion Waiver Letter for subject well.

Executed copies from Aztec Oil & Gas Company and Penroc Oil Corporation were previously mailed to your office.

Very truly yours,

TEXAS WEST OIL & GAS CORPORATION

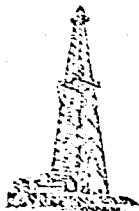
Alice Agnew
Alice Agnew
Office Manager

AA:kg

Attachment

DOCKET MAILED

Date 9-21-73



TEXAS WEST OIL & GAS CORPORATION

609 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

L. N. DUNNAVANT, President

(915) 684-5836

DISTRICT OFFICE:

Lafayette, Louisiana 70501
F. L. Dischler, Manager
Oil Center Station, Box 52332
(318) 232-8337

27 August 1973

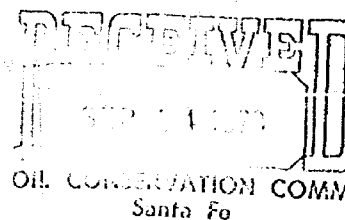
✓ Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

Aztec Oil & Gas Company
2000 First National Bank Building
Dallas, Texas 75202
Attention: Mr. Joe Starks

Penroc Oil Corporation
310 West Texas
Midland, Texas 79701

Kewanee Oil Company
P. O. Box 1859
Midland, Texas 79701

Re: Texas West Oil & Gas Corporation's
State "2" #2, 1980' FS & WL's of
Section 2, T-24-S, R-34-E, Lea County,
New Mexico, Antelope Ridge Field,
Dual Completion Waiver Letter.



RECEIVED

SEP 8 1973

Gentlemen:

Attached please find a copy of the New Mexico Oil Conservation Commission Form C-107 "Application for Multiple Completion" for the proposed dual completion of subject well.

If you have no objection to this application, please indicate your approval by executing this Waiver Letter in the space provided for that purpose and return two copies to this office at your earliest convenience.

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 6 DAY OF
SEPTEMBER, 1973.

SHELL OIL COMPANY

BY: *D. J. Artos*

AZTEC OIL & GAS COMPANY

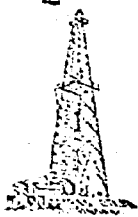
BY: _____

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: _____



TEXAS WEST OIL & GAS CORPORATION

600 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

L. N. DUNNAVANT, President

(315) 084-5836

DISTRICT OFFICE:

Lafayette, Louisiana 70501
F. L. Dischler, Manager
Oil Center Station, Box 52332
(318) 232-8387

27 August 1973

Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

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2000 First National Bank Building
Dallas, Texas 75202
Attention: Mr. Joe Starks

Penroc Oil Corporation
310 West Texas
Midland, Texas 79701

✓ Kewanee Oil Company
P. O. Box 1859
Midland, Texas 79701

Re: Texas West Oil & Gas Corporation's
State "2" #2, 1980' FS & WL's of
Section 2, T-24-S, R-34-E, Lea County,
New Mexico, Antelope Ridge Field,
Dual Completion Waiver Letter.

Gentlemen:

Attached please find a copy of the New Mexico Oil Conservation Commission Form C-107 "Application for Multiple Completion" for the proposed dual completion of subject well.

If you have no objection to this application, please indicate your approval by executing this Waiver Letter in the space provided for that purpose and return two copies to this office at your earliest convenience.

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 30th DAY OF
August, 1973.

SHELL OIL COMPANY

BY: _____

AZTEC OIL & GAS COMPANY

BY: *J. H. Momb*

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: _____

Docket No. 27-73

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 3, 1973

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. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for November, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
- (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1973.

CASE 5044: (Continued from the August 9, 1973, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Sycor Newton, Peru Milling Company, R. E. Deming and Aetna Life and Casualty Company and all other interested parties to appear and show cause why the State L 6350 Well No. 1 located in Unit M of Section 10, Township 23 South, Range 11 West, Luna County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5069: Application of Sun Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Annie Christmas Well No. 1 located in Unit N of Section 1, Township 22 South, Range 37 East, Lea County, New Mexico, to produce gas from an undesignated Abo gas pool and oil from the Wanz-Granite Wash Pool through parallel strings of tubing.

CASE 5070: Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bubbling Spring Unit Area comprising 3078 acres, more or less, of Federal and Fee lands in Township 20 South, Range 26 East, Eddy County, New Mexico.

CASE 5071: Application of Texas West Oil & Gas Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State "2" Well No. 2 located in Unit K of Section 2, Township 24 South, Range 34 East, Antelope Ridge Field Area, Lea County, New Mexico, to produce gas from the Atoka and Morrow formations through parallel strings of tubing.

CASE 5072: Application of Northern Minerals, Inc. for a waterflood project, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks

Examiner Hearing - Wednesday - October 3, 1973

Docket No. 27-73

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(Case 5072 continued from Page 1)

authority to institute a pilot waterflood project by the injection of water into the Hospah sand of the Gallup formation in the open-hole interval from 734 feet to 744 feet in its Santa Fe Pacific Well No. 6-Y located 2013 feet from the North line and 2003 feet from the East line of Section 29, Township 16 North, Range 6 West, undesignated Gallup Pool, McKinley County, New Mexico.

CASE 5055: (Continued and Readvertised)

Application of Merrion & Bayless for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Gallup, Greenhorn, and Dakota oil and gas production within the wellbore of the Canada Mesa Well No. 3 located in Unit A of Section 14, Township 24 North, Range 6 West, Devils Fork Field, Rio Arriba County, New Mexico.

CASE 5073: Application of Belco Petroleum Corporation for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard gas proration unit comprising the E/2 SW/4 and SE/4 of Section 30 and the N/2 NE/4 of Section 31, all in Township 20 South, Range 33 East, South Salt Lake Field, Lea County, New Mexico, to be dedicated to a well to be drilled either in the center of Unit O of said Section 30, or at an unorthodox location in the center of Unit P of said Section 30.

OIL CONSERVATION COMMISSION
I DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE Sept. 5, 1973

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC X _____

Gentlemen:

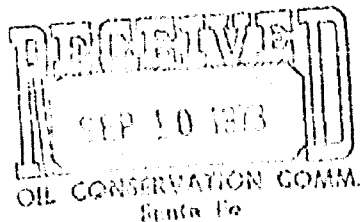
I have examined the application dated 9/4/73
for the Texas West Oil & Gas Corp. State 2 #2-K 2-24-34
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---J.D.R.

O.K.---J.W.R.

Yours very truly,



CASE 5071:

Application of Texas West Oil & Gas Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State "2" Well No. 2 located in Unit K of Section 2, Township 24 South, Range 34 East, Antelope Ridge Field Area, Lea County, New Mexico, to produce gas from the Atoka and Morrow formations through parallel strings of tubing.

BEFORE EXAMINER STATES	
OIL COMMISSION RECOMMENDATION	
CASE NO.	5071
Submitted by	APPLICANT
Hearing Date	

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

Form O-117
2-7-73

Company Texas West Oil & Gas Corporation		County Lea	Date 27 August 1973
Address 609 Midland National Bank Building Midland, Texas 79701		Lease State "2"	Well No. 2
Location of Well K	Unit 2	Township 24-South	Range 34-East

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

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Atoka		Morrow
b. Top and Bottom of Pay Section (Perforations)	12,407'-12,480'		13,260'-13,699'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

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

Shell Oil Company - P. O. Box 1509 - Midland, Texas 79701

Aztec Oil & Gas Company - 2000 First National Bank Building - Dallas, Texas 75202

Penroc Oil Corporation - 310 West Texas - Midland, Texas 79701

Kewanee Oil Company - P. O. Box 1859 - Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 27 August 1973.

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

Roy K. Valla

Signature

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

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

NO. OF COPIES RECEIVED	
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SANTA FE	
LE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form O-105
Revised 1-1-65

1. Well No.	
2. State	<input checked="" type="checkbox"/> X
3. Well Name	
4. Well No.	L-3882

10. TYPE OF WELL	OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>
11. TYPE OF COMPLETION	NEW <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>

7. Unit Agreement Date	
8. Term of Lease Date	State "2"
9. Well No.	2

12. Name of Operator	Texas West Oil & Gas Corp.
----------------------	----------------------------

10. Field and Town, or Section	Antelope Ridge
--------------------------------	----------------

13. Address of Operator	609 Midland National Bank Bldg. - Midland, Texas 79701
-------------------------	--

14. Location of Well	UNIT LETTER <u>K</u> LOCATED <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM
----------------------	--

11. Field and Town, or Section	Antelope Ridge
12. County	Lea

15. Date Drilled	4-27-73
16. Date P.D. Reached	7-20-73
17. Date Compl. (Ready to Prod.)	8-24-73
18. Elevations (DF, RKB, RT, GR, etc.)	3471' RKB
19. Elev. Containment	3451

20. Total Depth	13,825'
21. Plug Back T.D.	13,766'
22. If Multiple Compl., How Many	Dual
23. Intervals Drilled By	X

24. Producing Interval(s), of this completion - Top, Bottom, Name	Atoka - 12,407' to 12,480' Morrow - 13,260' to 13,699'
25. Was Directional Survey Made	No

26. Type Electric and Other Logs Run	Comp. Neutron- Formation Density, Dual Induction Laterlog
27. Was Well Cased	No

28. CASING RECORD (Report all strings set in well)	
--	--

29. LINER RECORD	
30. TUBING RECORD	

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94	358'	26"	550 sx. - Circulated	None
13 3/8"	68,61,54.5	5,184'	17 1/2"	3600 sx. - Circulated	None
9 5/8"	43.5, 47	11,930'	24 1/4"	2200 sx.	None

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
7 5/8"	11,502'	13,801'	300 sx.		2 7/8"	13,170'	13,170'
					2 7/8"	12,250'	12,250'

31. Perforation Record (Interval, size and number)	Atoka: 12,407-414; 12,438-456; 12,473-480' (w/1, shot/ft.) Morrow: 13,260-302; 13,372-380; 13,438-454; 13,672-699' (w/1 shot/ft.)
--	--

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
--	--

33. PRODUCTION	
----------------	--

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Vented
--	--------

35. List of Attachments	Log, C-104, C-122 (2)
-------------------------	-----------------------

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.	
---	--

SIGNED	Roy K. Valla	TITLE	Operations Manager	DATE	8-29-73
--------	--------------	-------	--------------------	------	---------

37. Date First Production	Atoka: 8-23-73 Morrow: 8-24-73	Production Method (Flowing, gas lift, pumping - Size and type pump)	Flowing	Well Status (Prod. or Shut-in)	Shut-in
12. Name of Operator	Texas West Oil & Gas Corp.	13. Address of Operator	609 Midland National Bank Bldg. - Midland, Texas 79701	14. Location of Well	UNIT LETTER <u>K</u> LOCATED <u>1980</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM
15. Date Drilled	4-27-73	16. Date P.D. Reached	7-20-73	17. Date Compl. (Ready to Prod.)	8-24-73
18. Elevations (DF, RKB, RT, GR, etc.)	3471' RKB	19. Elev. Containment	3451	20. Total Depth	13,825'
21. Plug Back T.D.	13,766'	22. If Multiple Compl., How Many	Dual	23. Intervals Drilled By	X
24. Producing Interval(s), of this completion - Top, Bottom, Name	Atoka - 12,407' to 12,480' Morrow - 13,260' to 13,699'	25. Was Directional Survey Made	No	26. Type Electric and Other Logs Run	Comp. Neutron- Formation Density, Dual Induction Laterlog
27. Was Well Cased	No	28. CASING RECORD (Report all strings set in well)		29. LINER RECORD	
30. TUBING RECORD		31. Perforation Record (Interval, size and number)	Atoka: 12,407-414; 12,438-456; 12,473-480' (w/1, shot/ft.) Morrow: 13,260-302; 13,372-380; 13,438-454; 13,672-699' (w/1 shot/ft.)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Vented	35. List of Attachments	Log, C-104, C-122 (2)
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.		SIGNED	Roy K. Valla	TITLE	Operations Manager
		DATE	8-29-73		

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form 10-100
Revised 1-1-66

5. Well No. **L-3882**

1a. TYPE OF WELL		OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Assignment 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 <input type="checkbox"/>		8. Form of Lease Name	
2. Name of Operator		Texas West Oil & Gas Corp.		State "2"	
3. Address of Operator		609 Midland National Bank Bldg. - Midland, Texas 79701		9. Well No.	
4. Location of Well		UNIT LETTER K LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM		10. Field and Pool, or Field	
THE West LINE OF SEC. 2 TWP. 24-S R. 34-E NMPM				11. Field and Pool, or Field	
12. County		Lea		Antelope Ridge	
13. Date Started	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Completion	
4-27-73	7-20-73	8-24-73	3471' RKB	3451	
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled by	Rotary Tools	Guide Tools
13,825'	13,766'	Dual		X	
24. Producing Interval(s), of this completion - Top, Bottom, Name					25. Was Directional Survey Made
Atoka - 12,407' to 12,480'					No
Morrow - 13,260' to 13,699'					No
26. Type Electric and Other Logs Run					27. Was Well Cased
Comp. Neutron- Formation Density, Dual Induction Laterlog					No
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94	358'	26"	550 sx. - Circulated	None
13 3/8"	68,61,54.5	5,184'	17 1/2"	3600 sx. - Circulated	None
9 5/8"	43.5, 47	11,930'	24 1/4"	2200 sx.	None
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	PACKER SET
7 5/8"	11,502'	13,801'	300 sx.		
31. Perforation Record (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
Atoka: 12,407-414; 12,438-456; 12,473-480' (w/1 shot/ft.)			DEPTH INTERVAL		
Morrow: 13,260-302; 13,372-380; 13,438-454; 13,672-699' (w/1 shot/ft.)			AMOUNT AND KIND MATERIAL USED		
			None		
33. PRODUCTION					
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)	
Atoka: 8-23-73		Flowing		Shut-in	
Morrow: 8-24-73					
Date of Test	Tested	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF
Atoka: 8-23-73	8 hrs.	various		Atoka: 72.5	770
Morrow: 8-24-73	8 hrs.	various		Morrow: 0	790
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
various	0		Atoka: 217.5	4,030 MCFD	0
			Morrow: -0-	4,153 MCFD	0
34. Disposition of Gas (Sold, used for fuel, vented, etc.)				Test Witnessed by	
Vented				Randy Kiker	
35. List of Attachments					
Log, C-104, C-122 (2)					
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.					
SIGNED <u>Roy K. Valla</u>		TITLE <u>Operations Manager</u>		DATE <u>8-29-73</u>	

INSTRUCTIONS

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 reamed well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests run on the well, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, the vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quadruplicate 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 <u>970'</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt <u>4115'</u>	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>12,014'</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Quize _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Winchry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubbs _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand <u>5160'</u>	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs <u>8755'</u>	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	970	970'	Red Beds				
970'	4115	3145'	Anhydrite				
4115'	5160	1045'	Salt				
5160'	5235	75'	Delaware Lime				
5235'	8755	3520'	Delaware Sand				
8755'	12014	3259'	Bone Springs				
12014'	12983	969'	Atoka				
12983'	13,825	842'	Morrow				

1-24-5, 1954-E

Shell Oil Co

3

1
Antelope

2
Antelope
Morrow

Permian Oil Corp.

11

TEXAS WEST OIL & GAS CORPORATION
Antelope Ridge Field
Lea County, New Mexico

TEXAS WEST OIL & GAS CORPORATION

600 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

L. N. DUNNAVANT, President

DISTRICT OFFICE:

Lafayette, Louisiana 70501
F. L. Dischler, Manager
Oil Center Station, Box 52032
(510) 232-5357

27 August 1973

Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

✓ Aztec Oil & Gas Company
2000 First National Bank Building
Dallas, Texas 75202
Attention: Mr. J. Starks

Penroc Oil Corporation
310 West Texas
Midland, Texas 79701

Kewanee Oil Company
P. O. Box 1859
Midland, Texas 79701

Re: Texas West Oil & Gas Corporation's
State "2" #2, 1980' FS & WL's of
Section 2, T-24-S, R-34-E, Lea County,
New Mexico, Antelope Ridge Field,
Dual Completion Waiver Letter.

Gentlemen:

Attached please find a copy of the New Mexico Oil Conservation Commission Form C-107 "Application for Multiple Completion" for the proposed dual completion of subject well.

If you have no objection to this application, please indicate your approval by executing this Waiver Letter in the space provided for that purpose and return two copies to this office at your earliest convenience.

RECEIVED

TEXAS WEST OIL & GAS CORP.

SEP 4 1973

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 30th DAY OF
August, 1973.

SHELL OIL COMPANY

BY: _____

AZTEC OIL & GAS COMPANY

BY: *J. Sh. Darnell*

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: _____

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 6 DAY OF
SEPTEMBER, 1973.

SHELL OIL COMPANY

BY: *H. S. Actus*

AZTEC OIL & GAS COMPANY

BY: _____

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: _____

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS _____ DAY OF
_____, 1973.

SHELL OIL COMPANY

BY: _____

AZTEC OIL & GAS COMPANY

BY: _____

PENROC OIL CORPORATION

BY: *John B. Little*

KEWANEE OIL COMPANY

BY: _____

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 28 DAY OF
August, 1973.

SHELL OIL COMPANY

BY: _____

AZTEC OIL & GAS COMPANY

BY: _____

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: *Alfred H. H. H.*

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION AT

Form No. 1
Supersedes O-126
Effective 1-1-69

All distances must be from the outer boundaries of the Section.

Operator <u>Texas West Oil & Gas Corporation</u>		Lease <u>State 2</u>		Well No. <u>2</u>
Letter <u>K</u>	Section <u>2</u>	Township <u>24 South</u>	Range <u>34 East</u>	County <u>Lea</u>

Actual Footage Location of Well:

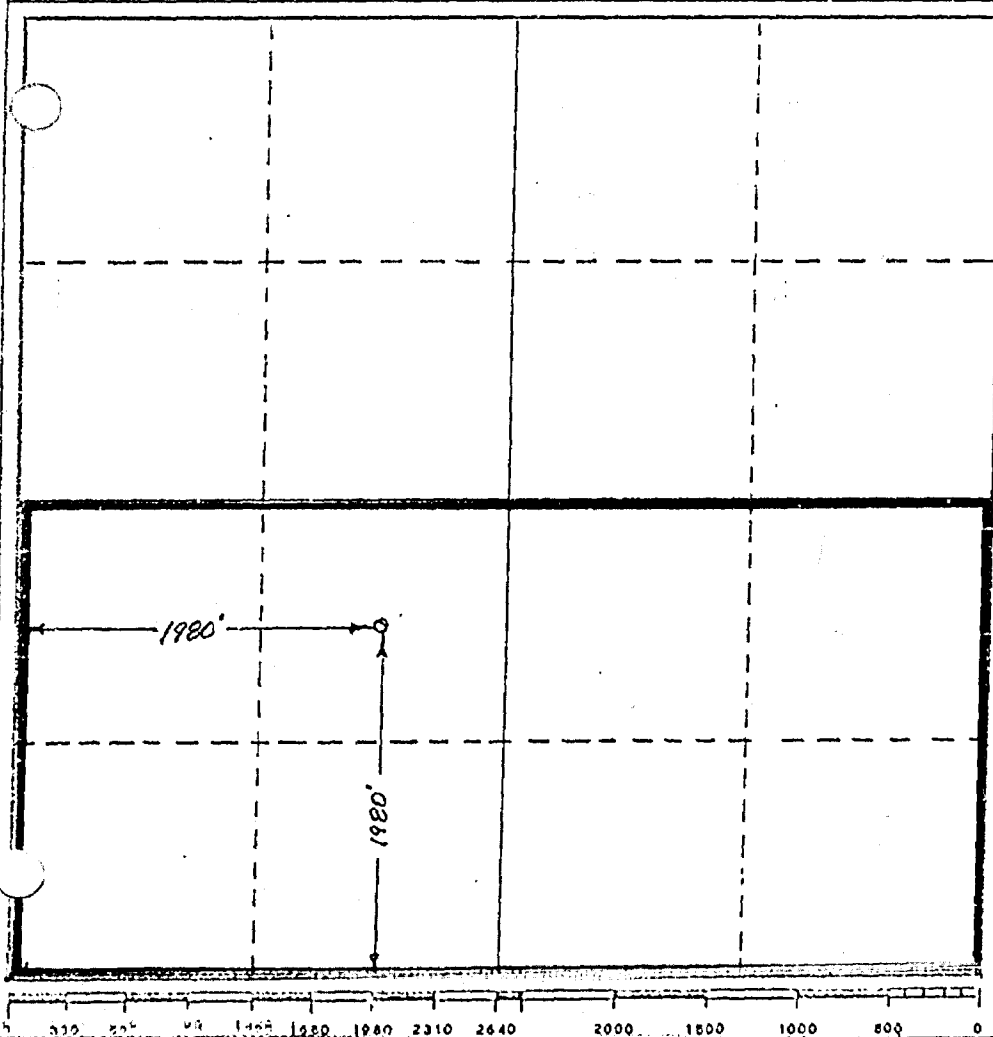
<u>1980</u>	feet from the <u>South</u>	line and	<u>1980</u>	feet from the <u>West</u>	line
Ground Level Elev. <u>3451</u>	Producing Formation <u>Atoka</u>	Pool <u>Antelope Ridge</u>	Dedicated Acreage: <u>320</u> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Roy K. Valla
Name

Operations Manager
Position

Texas West Oil & Gas Corp
Company

18 September 1973
Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

Registered Professional Engineer
and/or Land Surveyor

Certificate No. _____

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the water level of the well.

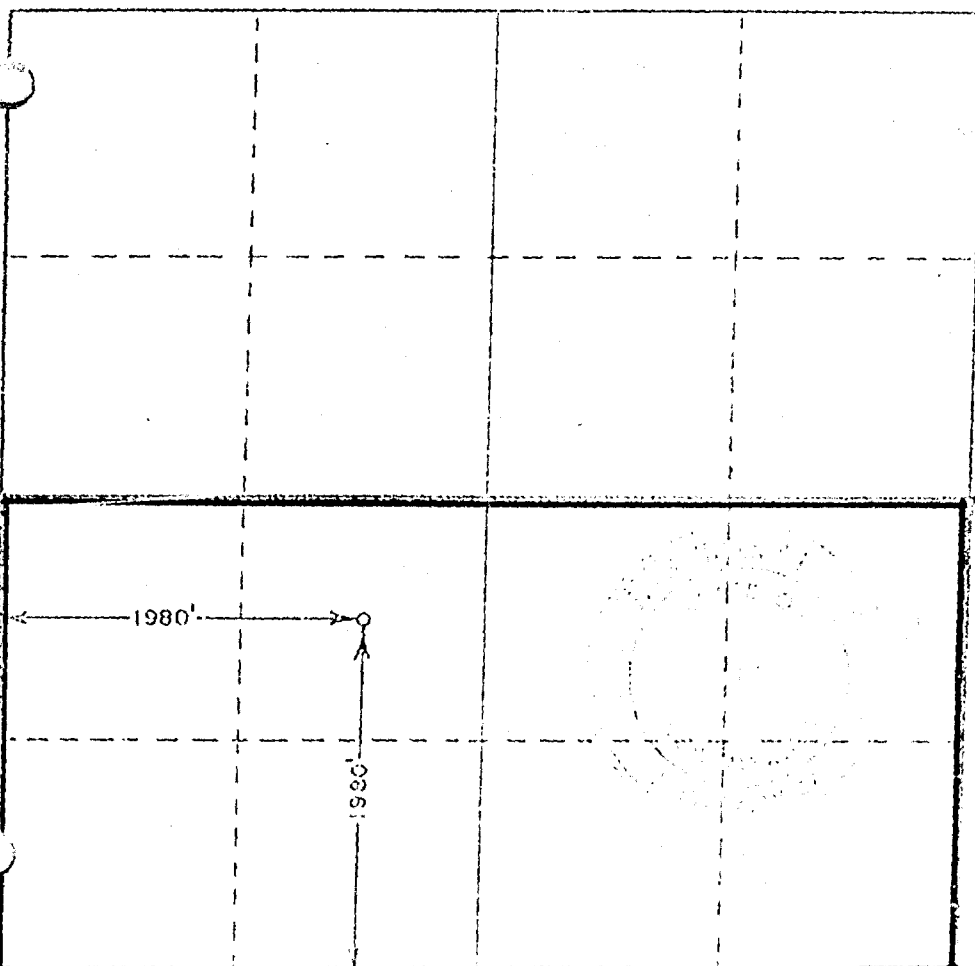
TEXAS WEST OIL & GAS CORP.				STATE 2	
Section	2	Township	24 SOUTH	Range	34 EAST
County	LRA				
Aerial Photo Location of Well:					
1980	feet from the	SOUTH	line and	1980	feet from the
Ground Level Elev.	Producing Formation		Antelope Ridge		320
3451	Morrow-Devonian				

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to well interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Roy K. Valla

Roy K. Valla

Vice-President

Texas West Oil & Gas Corporation

4/23/73

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

APRIL 16, 1973

John W. White

670

Side 1

NEW MEXICO OIL CONSERVATION COMMISSION
OIL AND GAS DIVISIONForm W-4A
(Rev. 8-27-69)SKETCH OF MULTIPLE COMPLETION INSTALLATION
WITH TUBING INSIDE CASING

(Fill out only the side of this form that applies to your installation.)

1. Well Name Antelope Ridge		2. RRC District NMOCC
3. Operator TEXAS WEST OIL & GAS CORPORATION		4. County Lea
5. Lease Name(s) XXXXXXXXXXXXXXXXXXXX		6. Well Number 2
7. Type of Multiple Completion - dual, triple, etc. Dual		9. Date 27 August 1973
8. Which sketch below (A, B, C, or D) fits your multi-completion installation? "B"		

Sketch A String (1)

Sketch B (1) (2)

Sketch C (1) (2) (3)

Sketch D (1) (2) (3) (4)

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at 12,250 ft.
Tubing landed at 12,250 ft.

RRC Alphabetic Code Designation _____
Name of Reservoir Atoka
Type of Production (oil, gas, or Inj.) Gas
Zone Interval _____ to _____
Perforated or Producing Interval 12,407 to 12,480'

Packer set at 13,170 ft.
Tubing landed at 13,170 ft.

RRC Alphabetic Code Designation _____
Name of Reservoir Morrow
Type of Production (oil, gas, or Inj.) Gas
Zone Interval _____ to _____
Perforated or Producing Interval 13,260 to 13,699'

7-5/8" Liner set at 13,801 ft.
Total Well Depth at 13,825 ft.

NOTE: Clearly mark any Cross-over Packers or Side Door Chokes and show depth at which set.

Side Door Choke set at None ft. String No. _____ Cross-over Packer set at None ft. String No. _____


- INSTRUCTIONS FOR SIDE 1 -

- Fill out only the side of this form that applies to your multiple completion installation. This side may be used for a dual, triple, or quadruple completion. If none of the sketches fits your installation, draw your installation on an attached sheet showing the identical required information.
- If this side of the form is used, two copies of Form W-5, PACKER SETTING REPORT (for each packer set); two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.

NEW MEXICO OIL CONSERVATION COMMISSION
~~RAILROAD COMMISSION OF TEXAS~~
OIL AND GAS DIVISION

Form W-5
(Rev. 8-27-69)

PACKER SETTING REPORT
(File two copies of this form in the RRC District Office for each packer set.)

1. Field Name Antelope Ridge	2. RRC District
3. Operator of Well Texas West Oil & Gas Corporation	4. County Lea
5. Lease Name(s) and RRC Lease Number(s) State "2"	6. Well Number 2
7. Make and Type of Packer Baker, Model A-5, Dual Hydrostatic Packer	8. Depth at which Packer was set (ft.) 12,250 Feet
9. Depth Measurement in Item 8 furnished by: Tubing tally	10. Date Packer was set 8-10-73
11. Remarks:	
<p>I personally supervised the setting of the packer described above in Items 1 through 11. The purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the containing, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. The make and type packer set was adequate to effectively and absolutely seal off the annular space between the two strings of pipe when it was properly set. This packer was properly set.</p>	
<p>I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.</p>	
27 September 1973 Date	 Signature of Person Making Report
Texas West Oil & Gas Corporation Employer	Roy K. Valla Name of Person (type or print)
209 Midland National Bank Building Street Address or P.O. Box	Operations Manager Title of Person
Midland, Texas City, State	79701 Zip Code
Telephone: 915 684-5836 Area Code	

NEW MEXICO OIL CONSERVATION COMMISSION
~~PAKING COMMISSION OF TEXAS~~
OIL AND GAS DIVISION

Form O-5
(Rev. 6-27-69)

PACKER SETTING REPORT
(File two copies of this form in the RRC District Office for each packer set.)

1. Field Name Antelope Ridge	2. RRC District
3. Operator of Well Texas West Oil & Gas Corporation	4. County Lea
5. Lease Name(s) and RRC Lease Number(s) State "2"	6. Well Number 2
7. Make and Type of Packer Baker, Model A-2 Loc-Set Packer	8. Depth at which Packer was set (ft.) 13,170 Feet
9. Depth Measurement in Item 8 furnished by: Tubing tally	10. Date Packer was set 8-1-73

11. Remarks:

I personally supervised the setting of the packer described above in Items 1 through 11. The purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the comingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. The make and type packer set was adequate to effectively and absolutely seal off the annular space between the two strings of pipe when it was properly set. This packer was properly set.

I declare under penalties prescribed in Article 6036c, R. C. S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

27 September 1973
Date

Roy K. Valla
Signature of Person Making Report

Texas West Oil & Gas Corporation
Employer

Roy K. Valla
Name of Person (type or print)

19 Midland National Bank Building
Street Address or P.O. Box

Operations Manager
Title of Person

Midland, Texas 79701
City, State Zip Code

Telephone: 915 684-5836
Area Code

NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	Texas West Oil & Gas Corporation				Lease	State "2"		Well	No. 2	
Location of Well	Unit	Sec	Twp	Rge	County	Loc				
	K	2	24-South	64-East						
	Name of Reservoir or Pool		Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tub or Con)	Choke Size				
Upper Comp	Atoka		Gas	Flow	Tubing	Various				
Lower Comp	Morrow		Gas	Flow	Tubing	Various				

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 7:00 A.M., 8/20/73

Well opened at (hour, date): 7:00 A.M., 8-23-73

Indicate by (X) the zone producing..... X

Pressure at beginning of test..... 7075 psig

Stabilized? (Yes or No)..... Yes

Maximum pressure during test..... 7075 psig

Minimum pressure during test..... 3240 psig

Pressure at conclusion of test..... 3240 psig

Pressure change during test (Maximum minus Minimum)..... 3825 psig

Was pressure change an increase or a decrease?..... Decrease

Well closed at (hour, date): 3:00 P.M., 8-23-73

Oil Production Gas Production

During Test: 72.5 bbls; Grav. 54°; During Test 770 MCF; GOR 10,620

Remarks While flowing the Atoka zone no decrease in shut-in pressure for the Morrow zone was witnessed.

FLOW TEST NO. 2

Well opened at (hour, date): 7:00 A.M., 8/24/73

Indicate by (X) the zone producing..... X

Pressure at beginning of test..... 6860 psig

Stabilized? (Yes or No)..... Yes

Maximum pressure during test..... 6860 psig

Minimum pressure during test..... 1540 psig

Pressure at conclusion of test..... 1540 psig

Pressure change during test (Maximum minus Minimum)..... 5320 psig

Was pressure change an increase or a decrease?..... Decrease

Well closed at (hour, date): 3:00 P.M., 8-24-73

Oil Production Gas Production

During Test: -0- bbls; Grav. - -; During Test 970 MCF; GOR -0-

Remarks While flowing the Morrow zone no decrease in shut-in pressure for the Atoka zone was witnessed.

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

Approved 19
New Mexico Oil Conservation Commission

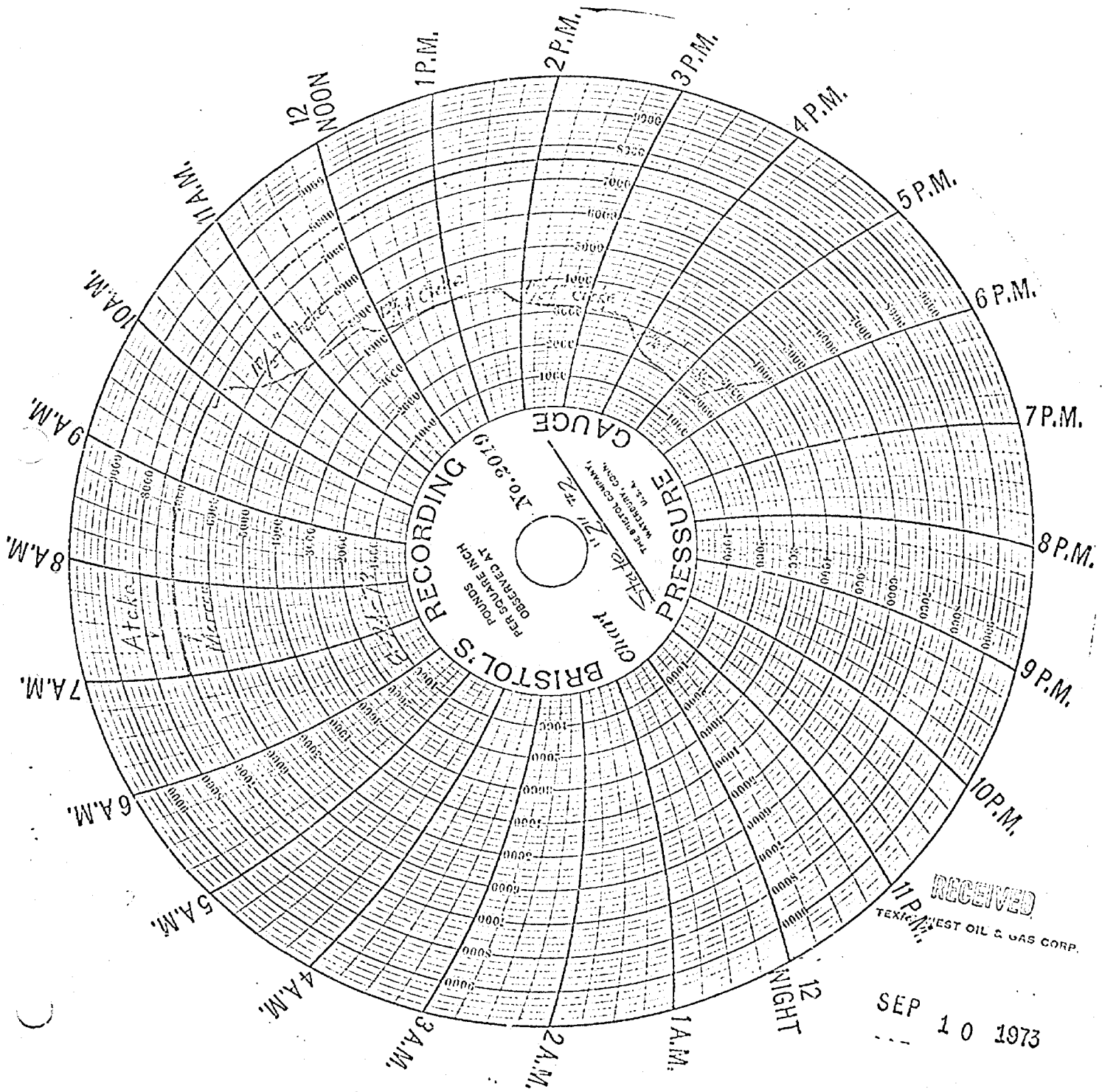
By
Title

Operator Texas West Oil & Gas Corporation

By Roy K. Valla
(Roy K. Valla)

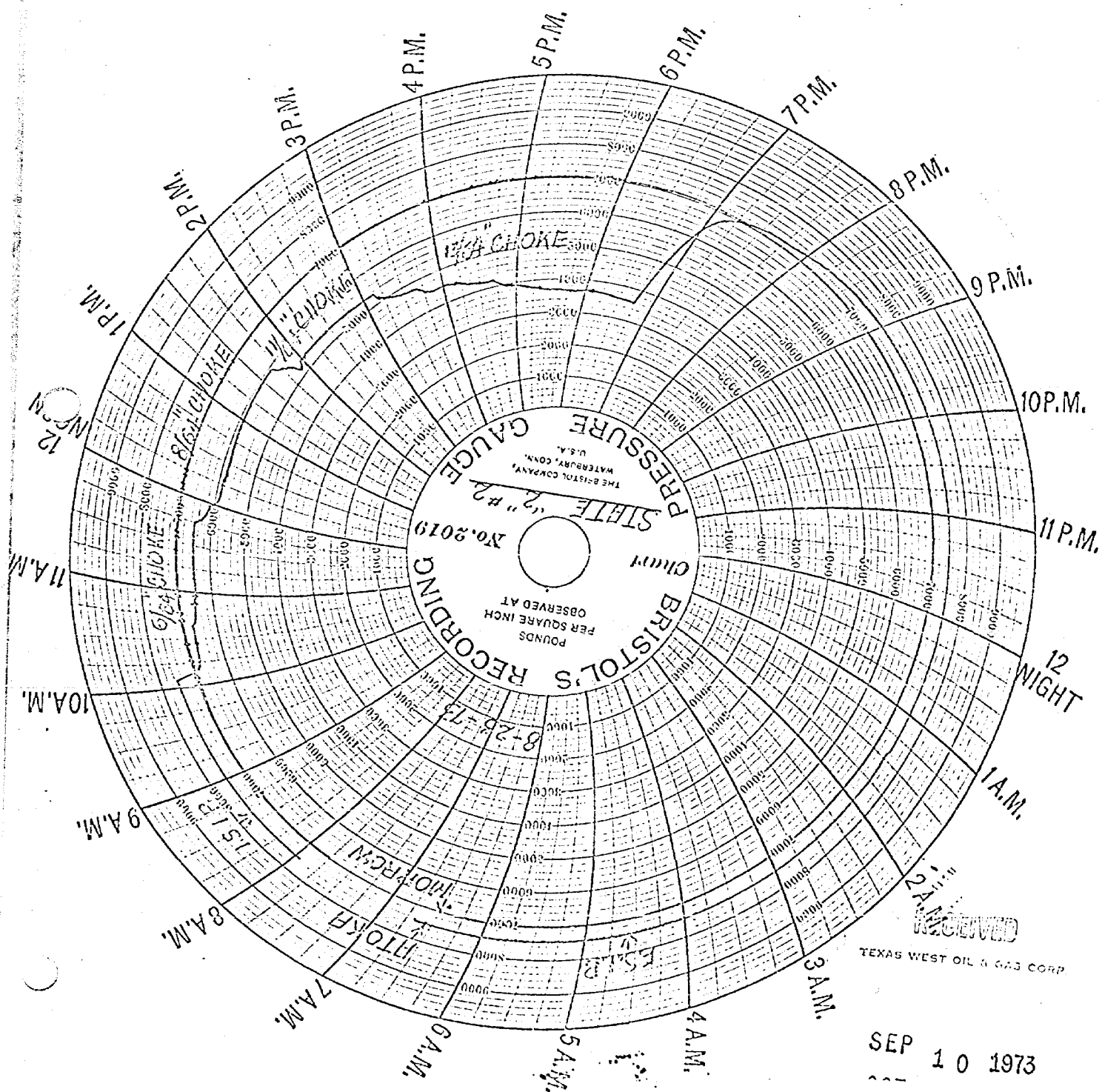
Title Operations Manager

Date 27 August 1973



RECEIVED
TEXAS WEST OIL & GAS CORP.

SEP 10 1973



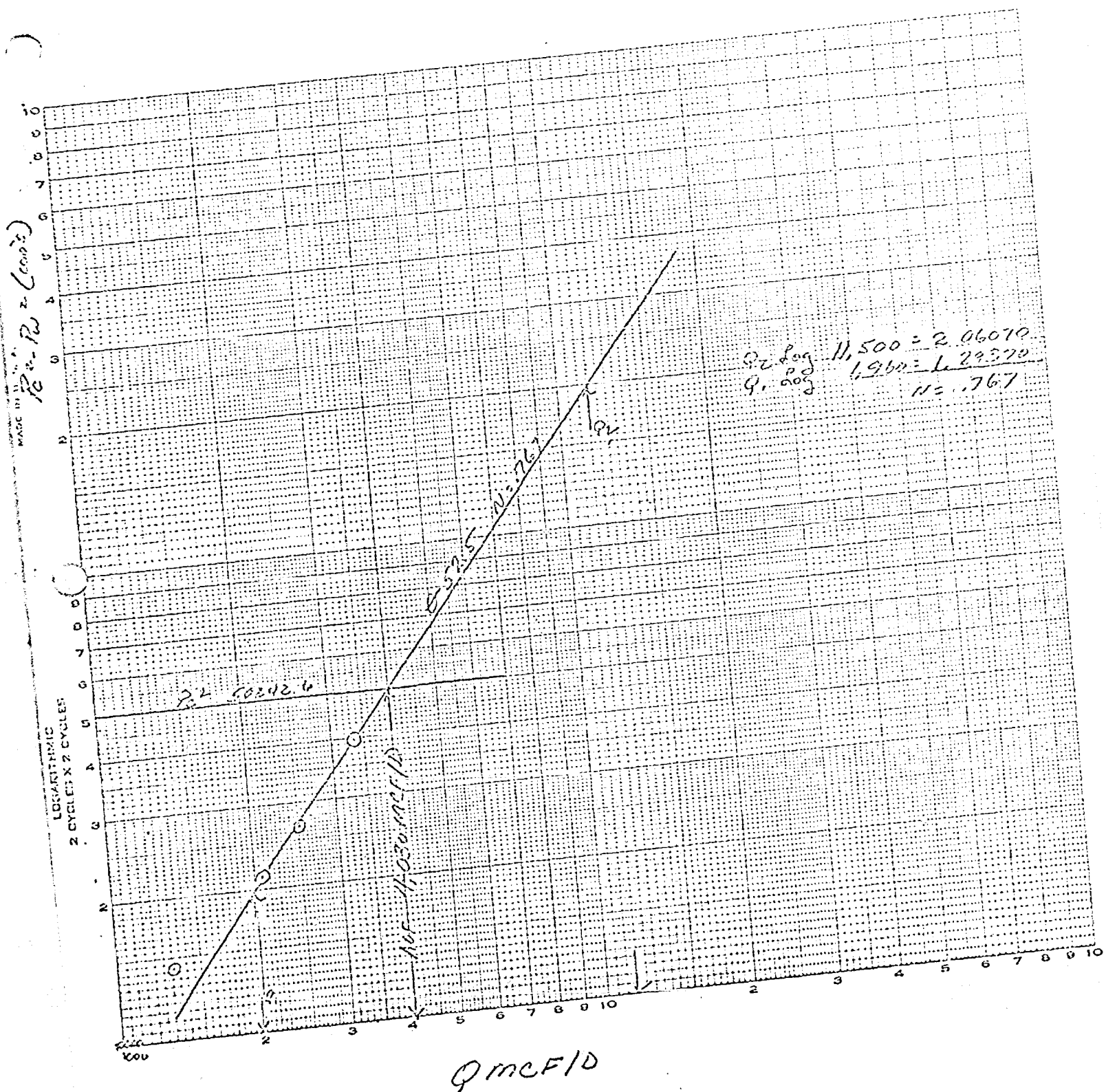
SEP 10 1973

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

Form O-111
Revised 1-1-64

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 8-23-73		SEP 6 1973																																																																																			
Company Texas West Oil & Gas Corp.			Connection None																																																																																				
Pool Antelope Ridge			Formation Atoka																																																																																				
Completion Date 8-21-73		Total Depth 13,801		Plug Back TD 13,766																																																																																			
Casing Size 9 5/8 7 5/8		Set At 11,930		Elevation 3451 GR																																																																																			
Perforations From 12407 To 12480		Set At 13,901		Perforations From 12407 To 12480																																																																																			
Casing Size 2 7/8		ID 6.5		Set At 12,270																																																																																			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas Gas Dual		Packer Set At 12,250		County Lea 1																																																																																			
Producing Thru TSS		Reservoir Temp. °F 197 @ 12,250		Mean Annual Temp. °F 13.2																																																																																			
Baro. Press. - P _a 12,250		State New Mexico		Prover Meter Run 4" FL6																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th colspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Duration of Flow</th> </tr> <tr> <td>1.</td> <td>4"</td> <td>X 1.750</td> <td></td> <td>760</td> <td>6.00</td> <td>90</td> <td>5990</td> <td>84</td> <td></td> <td></td> <td>2 Hr</td> </tr> <tr> <td>2.</td> <td>4"</td> <td>X 1.750</td> <td></td> <td>760</td> <td>15.00</td> <td>90</td> <td>5382</td> <td>87</td> <td></td> <td></td> <td>2 "</td> </tr> <tr> <td>3.</td> <td>4"</td> <td>X 1.750</td> <td></td> <td>755</td> <td>22.00</td> <td>88</td> <td>4805</td> <td>81</td> <td></td> <td></td> <td>2 "</td> </tr> <tr> <td>4.</td> <td>4"</td> <td>X 1.750</td> <td></td> <td>755</td> <td>38.00</td> <td>75</td> <td>3240</td> <td>82</td> <td></td> <td></td> <td>2 "</td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow		NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow	1.	4"	X 1.750		760	6.00	90	5990	84			2 Hr	2.	4"	X 1.750		760	15.00	90	5382	87			2 "	3.	4"	X 1.750		755	22.00	88	4805	81			2 "	4.	4"	X 1.750		755	38.00	75	3240	82			2 "	5.											
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow																																																																															
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow																																																																												
1.	4"	X 1.750		760	6.00	90	5990	84			2 Hr																																																																												
2.	4"	X 1.750		760	15.00	90	5382	87			2 "																																																																												
3.	4"	X 1.750		755	22.00	88	4805	81			2 "																																																																												
4.	4"	X 1.750		755	38.00	75	3240	82			2 "																																																																												
5.																																																																																							
RATE OF FLOW CALCULATIONS																																																																																							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																
1.	14.93	68.11	773.2	.9723	1.243	1.064	1308																																																																																
2.	14.93	107.69	773.2	.9723	1.243	1.064	2068																																																																																
3.	14.93	130.00	768.2	.9741	1.243	1.066	2505																																																																																
4.	14.93	170.86	768.2	.9859	1.243	1.070	3345																																																																																
5.																																																																																							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 9.5 Mcf/cbl. A.P.I. Gravity of Liquid Hydrocarbons 54.0 @ 60° Deg. Specific Gravity Separator Gas .647 XXXXXXXX Specific Gravity Flowing Fluids XXXXXX .941 G MIX Critical Pressure 670 P.S.I.A. 661 P.S.I.A. Critical Temperature 372 °R 471 °R																																																																																		
1.	1.15	550	1.48	.883																																																																																			
2.	1.15	550	1.48	.883																																																																																			
3.	1.15	548	1.47	.880																																																																																			
4.	1.15	535	1.44	.873																																																																																			
5.																																																																																							
$P_r = 7088.2$ $P_w = 50242.6$																																																																																							
NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 1.275$ $(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.205$																																																																																		
1.	6004.4	36052.2	141898																																																																																				
2.	5403.9	29202.1	21040.5																																																																																				
3.	4836.5	23391.7	26850.9																																																																																				
4.	3294.1	10851.1	39391.5		$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.030$																																																																																		
5.																																																																																							
Absolute Open Flow 4.030 Mcfd @ 15.025 Angle of Slope @ 52.5 Slope, n = 767																																																																																							
Remarks: Made 72.50 BBLS Condensate During Test																																																																																							
Approved By: _____				Conducted By: Randy Kiker				Calculated By: Randy Kiker																																																																															
								Checked By: Roy K. Valla																																																																															

SLP C 1973



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

Form O-112
Revised 9-1-55

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 8-24-73	
Company Texas West Oil & Gas Corp.		Connection None	
Pool Antelope Ridge		Formation Morrow	
Completion Date 8-21-73	Total Length 13,801	Flow Rate TD 13,766	Elevation 3451 GR
Cas. Size 95/8" ID	Set At 11,930	Perforations: From 13,260 To 13,669	Well No. 2
Log. Size 2 7/8" ID	Set At 13,104	Perforations: From Open ended To	Unit Soc. Twp. Rge. K 12 24
Type Well - Single - Broadhead - G.C. or G.C. Multiple		Packer Set At 13,170	County Lea
Producing Thru 13,104	Reservoir Temp. °F 175	Mean Annual Temp. °F 13,770	State New Mexico
II	GV	% CO ₂	% N ₂
13,104	13,104	630	Provor

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	1" x 2"			770	8"	98°	4362	74°			72 hrs.
2.	1" x 2"			775	13"	90°	3540	79°			2 hrs.
3.	1" x 2"			785	19"	83°	2795	81°			2 hrs.
4.	1" x 2"			795	28"	89°	1546	81°			1.75 hrs.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1.	19.81	79.2	783.2	.9868	1.260	1.062	2072
2.	19.81	101.2	788.2	.9822	1.260	1.062	2635
3.	19.81	123.2	798.2	.9804	1.260	1.057	3217
4.	19.81	150.4	808.2	.9804	1.260	1.065	3925
5.							

NO.	P _r	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcfd/ool.
1.	1.17	558	1.52	.887	A.P.I. Gravity of Liquid Hydrocarbons	None	Deq.
2.	1.18	550	1.49	.885	Specific Gravity Separator Gas	.630	XXXXXXXXXX
3.	1.19	543	1.48	.879	Specific Gravity Flowing Fluid	XXXXXX	
4.	1.21	549	1.49	.880	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	368	R

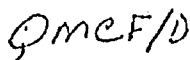
P _r 6873.2	P _w 47,240.8	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.059$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.059$
1	4381.5	19,197.5	28043.2
2	3568.0	12,730.6	34510.2
3	2833.1	8,026.5	33214.8
4	1618.7	2,620.2	44620.6
5			

Absolute Open Flow	4,153	Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.000
--------------------	-------	---------------	------------------	----	----------	-------

Remarks: no liquid made during test.

Approved by Commission	Conducted by Randy Kiker	Calculated by Randy Kiker	Checked by Roy K. Valla
------------------------	-----------------------------	------------------------------	----------------------------

August 24, 1973



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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form G-101
Revised 1-1-75

5A. Indicate Type of Lease
STATE ☒ REC ☐

5. State Oil & Gas Lease No.
L-3882

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> POSS. MULTIPLE ZONE <input checked="" type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Texas West Oil & Gas Corporation		8. Form or Lease Name State "2"
3. Address of Operator 609 Midland National Bank Bldg. - Midland, Texas 79701		9. Well No. 2
4. Location of Well UNIT LETTER K LOCATED 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE OF SEC. 2 TWP. 24-S RGE. 34-E NADEN		10. Field and Post, or Wellcat Antelope Ridge
		12. County Lea
19. Proposed Depth 14,800'		15A. Formation Devonian
20. History or C.T. Rotary		
21. Elevations (Show whether DP, RT, etc.) 3451' GR	21A. Kind & Status Plug. Bond Blanket	22. Approx. Date Work will start 4/28/73
21B. Drilling Contractor McVay Drilling Co.		

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
24"	20"	94#	375'	550	Circulated
17-1/2"	13-3/8"	54.5, 61, 68#	5200'	3125	Circulated
12-1/4"	9-5/8" Liner	43.5#	11,900'	1250	4800'
8-1/2"	7-5/8" Liner	39#	14,400'	725	
6-1/2"	5-1/2" Liner	20#	14,800'	150	

Adequate blowout equipment will be utilized to insure safe operations at all times. This well is projected to test the Devonian formation and all zones of interest will be tested.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED

EXPIRES

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAMS IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Roy K. Valla Title Vice-President Date 4/23/73

(This space for State Use)

APPROVED BY John W. Rumsen TITLE Approved for drilling only. Before production from this well can be approved, either a standard 640 acre unit must be formed, or a Non-Standard Unit Order must be obtained. DATE

OIL CONSERVATION COMMISSION

BOX 1980

HOBBS, NEW MEXICO

*Almoco
22*

NOTICE OF GAS CONNECTION

DATE Sept. 25, 1973

This is to notify the Oil Conservation Commission that connection for
the purchase of gas from the Texas West Oil & Gas Corp., State 2,
Operator Lease
#2 (Atoka) K, 2-24-34, Antelope Ridge (Atoka
Well Unit S.T.R. Pool
_____, El Paso Natural Gas Co.
Meter Code Site Number Name of Purchaser

was made on September 25, 1973.

El Paso Natural Gas Company
Purchaser

Terrell B. Elliott
Representative

Gas Production Status Analyst
Title

TRE:bl
cc: To operator
Oil Conservation Commission - Santa Fe
Oil Conservation Commission - Artesia (2)
Proration
T. J. Crutchfield
H. P. Logan
File

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

Form C-107
5-1-61

Case 5071

Operator Texas West Oil & Gas Corporation		County Lea	Date 27 August 1973
Address 609 Midland National Bank Building Midland, Texas 79701		Lease State "2"	Well No. 2
Location of Well K	Unit 2	Township 24-South	Range 34-East

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X

2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Atoka		Morrow
b. Top and Bottom of Pay Section (Perforations)	12,407'-12,480'		13,260'-13,699'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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SEP 3 1973
OIL CONSERVATION COMM.
Santa Fe

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

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) |

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

Shell Oil Company - P. O. Box 1509 - Midland, Texas 79701

Aztec Oil & Gas Company - 2000 First National Bank Building - Dallas, Texas 75202

Penroc Oil Corporation - 310 West Texas - Midland, Texas 79701

Kewanee Oil Company - P. O. Box 1859 - Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **27 August 1973**.

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

DOCKET MAILED

Roy K. Valla Date **9-21-73**
Roy K. Valla Signature

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

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

35

Azteco Oil & Gas Co.

T-23-S, R-34-E

T-24-S, R-34-E

Texas West Oil
& Gas Corp.

2

Shell Oil Co.

Keweenaw Oil Co.

1
Atoka

2
Atoka
Morrow

3

Penroc Oil Corp.

11

TEXAS WEST OIL & GAS CORPORATION
Antelope Ridge Field
Lea County, New Mexico

Antelope
Ridge
Atoka

4

Case 5871

NEW MEXICO OIL CONSERVATION COMMISSION
OIL AND GAS DIVISIONForm W-4A
(Rev. 6-27-69)SKETCH OF MULTIPLE COMPLETION INSTALLATION
WITH TUBING INSIDE CASING

(Fill out only the side of this form that applies to your installation.)

Case 5071

1. Field Name Antelope Ridge		2. XXX District NMOCC I
3. Operator TEXAS WEST OIL & GAS CORPORATION		4. County Lea
5. Lease Name(s) XXXXXXXXXXXXXXXXXXXX State "2"		6. Well Number 2
7. Type of Multiple Completion - dual, triple, etc. Dual	8. Which sketch below (A, B, C, or D) fits your multi-completion installation? "B"	
		9. Date 27 August 1973

Sketch String (1) (2) (3) (4)

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at _____ ft.
Tubing landed at _____ ft.

RRC Alphabetic Code Designation _____
Name of Reservoir _____
Type of Production (oil, gas, or Inj.) _____
Zone Interval _____ to _____
Perforated or Producing Interval _____ to _____

Packer set at 12,250 ft.
Tubing landed at 12,250 ft.

RRC Alphabetic Code Designation _____
Name of Reservoir Atoka
Type of Production (oil, gas, or Inj.) Gas
Zone Interval _____ to _____
Perforated or Producing Interval 12,407 to 12,480'

Packer set at 13,170 ft.
Tubing landed at 13,170 ft.

RRC Alphabetic Code Designation _____
Name of Reservoir Morrow
Type of Production (oil, gas, or Inj.) Gas
Zone Interval _____ to _____
Perforated or Producing Interval 13,260 to 13,699'

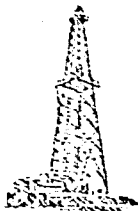
7-5/8" Liner
set at 13,801 ft.
Total Well Depth at 13,825 ft.

NOTE: Clearly mark any Cross-over Packers or Side Door Chokes and show depth at which set.

Side Door Choke set at None ft. String No. _____ Cross-over Packer set at None ft. String No. _____

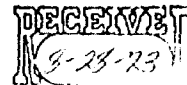
- INSTRUCTIONS FOR SIDE 1 -

1. Fill out only the side of this form that applies to your multiple completion installation. This side may be used for a dual, triple, or quadruple completion. If none of the sketches fits your installation, draw your installation on an attached sheet showing the identical required information.
2. If this side of the form is used, two copies of Form W-5, PACKER SETTING REPORT (for each packer set); two copies of Form W-6, COMMUNICATION OR PACKER LEAKAGE TEST; an Electrical Log; and two copies of this form must be filed with the two copies of Form W-4, APPLICATION FOR MULTIPLE COMPLETION, in the RRC District Office.



TEXAS WEST OIL & GAS CORPORATION

609 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701



L. N. CUNNAVANT, President

(915) 684-5530

DISTRICT OFFICE:
Lafayette, Louisiana 70501
F. L. Dischler, Manager
Oil Center Station, Box 52332
(318) 232-3357

27 August 1973

Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

Aztec Oil & Gas Company
2000 First National Bank Building
Dallas, Texas 75202
Attention: Mr. Joe Starks

Penroc Oil Corporation
310 West Texas
Midland, Texas 79701

Kewanee Oil Company
P. O. Box 1859
Midland, Texas 79701

RECEIVED

TEXAS WEST OIL & GAS CORP.

AUG 29 1973

Re: Texas West Oil & Gas Corporation's
State "2" #2, 1980' FS & WL's of
Section 2, T-24-S, R-34-E, Lea County,
New Mexico, Antelope Ridge Field,
Dual Completion Waiver Letter.

Gentlemen:

Attached please find a copy of the New Mexico Oil Conservation Commission Form C-107 "Application for Multiple Completion" for the proposed dual completion of subject well.

If you have no objection to this application, please indicate your approval by executing this Waiver Letter in the space provided for that purpose and return two copies to this office at your earliest convenience.

Case 5071

Shell Oil Company
Aztec Oil & Gas Company
Penroc Oil Corporation
Kewanee Oil Company
8/27/73

Page Two

Yours very truly,

TEXAS WEST OIL & GAS CORPORATION

Roy K. Valla

Roy K. Valla
Operations Manager

RKV:aa

Attachment

APPROVED THIS 28 DAY OF
August, 1973.

SHELL OIL COMPANY

BY: _____

AZTEC OIL & GAS COMPANY

BY: _____

PENROC OIL CORPORATION

BY: _____

KEWANEE OIL COMPANY

BY: *Don Haden*

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. 5071

Order No. R-4644

APPLICATION OF TEXAS WEST OIL & GAS CORPORATION
FOR A DUAL COMPLETION, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
October 3, 1963, at Santa Fe, New Mexico, before Examiner
Richard L. Stamets.

NOW, on this _____ day of October, 1963, 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, Texas West Oil & Gas Corporation,
seeks authority to complete its State "2"

Well No. 2, located in Unit K of Section 2, Township

24 South, Range 34 East, NMPM, Lea County, New
~~North~~ ~~West~~

Mexico, as a dual completion (conventional) ~~combination~~ to produce gas
in the Antelope Ridge ~~(tubingless) field area~~
from the ~~from the~~ ~~Rocky Mountain~~

from the Atoka and Morrow formations through parallel strings of 2 7/8-inch
tubing ~~Antelope Ridge area, Lea County,~~

New Mexico

with packers set at approximately 12,250
feet and 13,170 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texas West Oil & Gas Corporation, is hereby authorized to complete its State "2" Well No. 2, located in Unit K of Section 2, Township

24 ~~South~~ ^{North} Range 34 East, NMPM, Lea County, New

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

in the Antelope Ridge field area from the

Atoka and Morrow formations through parallel strings of ^{2 3/8}-inch tubing

with packers set at approximately
12,250 feet and 13,170 feet.

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

PROVIDED FURTHER, that the applicant shall take packer-leakage ~~segregation~~ tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure ~~Gas-Oil Ratio~~ Test Period for the Antelope Ridge ~~Morrow~~ ^{Morrow} Pool. ~~Deliverability~~ ^{Gas}

(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 herein-above designated.