

CASE 1777: Application of EL PASO  
for exception to overproduction shut-  
in provisions of R-520, as amended by  
R-967 for 2 wells in Jalmat Gas Pool.

1777

1777

Case No.

1777

Application, Transcript,  
Small Exhibits, Etc.

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. 1777  
Order No. R-1611

APPLICATION OF THE TASC NATURAL  
GAS COMPANY FOR AN ORDER PER-  
MITTING TO OVERPRODUCED GAS  
WELLS IN THE JALMAT GAS POOL,  
LEA COUNTY, NEW MEXICO, TO  
COMPENSATE FOR SUCH OVERPR-  
DUCTION AT A LESSER RATE THAN  
COMPLETE SHUT-IN IN EXCEPTION  
TO ORDERS NOS. R-520 AND R-967

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
September 30, 1959, at Santa Fe, New Mexico, before Daniel  
S. Nutter, Examiner duly appointed by the Oil Conservation  
Commission of New Mexico, hereinafter referred to as the  
"Commission," in accordance with Rule 1214 of the Commission  
Rules and Regulations.

Now, on this 1st day of October, 1959, the Commission,  
a quorum being present, having considered the application, the  
evidence adduced, and the recommendations of the Examiner,  
Daniel S. Nutter, 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 following-described gas wells in the Jalmat  
Gas Pool, Lea County, New Mexico, are more than six times over-  
produced and are therefore subject to complete shut-in under  
the provisions of Orders Nos. R-520 and R-967:

E. J. Wells No. 13 Well, Unit L, Section 5  
Wells B-4 Well No. 1, Unit D, Section 4

both in Township 25 South, Range 37 East, N.M.P., Lea County,  
New Mexico.

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Case No. 1777

Order No. A-1011

(3) That due to severe liquid problems, the applicant seeks an order permitting the overproduction to be made up at a lesser rate than complete shut-in in order to preclude permanent injury to the subject wells.

(4) That the applicant should be permitted to produce each of the subject wells at a monthly rate equal to fifty percent of the well's current monthly allowable or at a monthly rate equal to fifty percent of the well's average monthly allowable for the preceding six-month proration period, whichever is greater.

(5) That the curtailed rate of production to compensate for overproduction as hereinabove prescribed should be adequate to prevent permanent injury to the well or producing formation.

(6) That an administrative procedure should be established whereby the Secretary-Director of the Commission may authorize the operator to compensate for overproduction at a lesser rate than that provided in this order upon a satisfactory showing that the rate prescribed herein would result in permanent damage to the well and/or producing formation.

IT IS THEREFORE ORDERED:

(1) That the operator do and the same is hereby authorized to compensate for the overproduction of the following-described gas wells in the Jalmat Gas Pool by producing each of them at a monthly rate equal to fifty percent of the well's current monthly allowable or at a monthly rate equal to fifty percent of the well's average monthly allowable for the preceding six-month proration period whichever is greater:

A. J. Wells No. 10 well, Unit 1, Section 5  
Wells B-1 Well No. 1, Unit 1, Section 4

Both in Township 25 South, Range 17 East, 14th, Lea County, New Mexico.

PROVIDED HOWEVER, That an administrative procedure be and the same is hereby established wherein the Secretary-Director is authorized to set the percentage of curtailment at a lesser rate than that herein prescribed upon a satisfactory showing by the operator that the rate for compensating for overproduction as set forth in this order would result in permanent damage to the well and/or producing formation.

-3-

Case No. 1777  
Order No. R-1517

(2) That the effective date of this order is November 1, 1939.

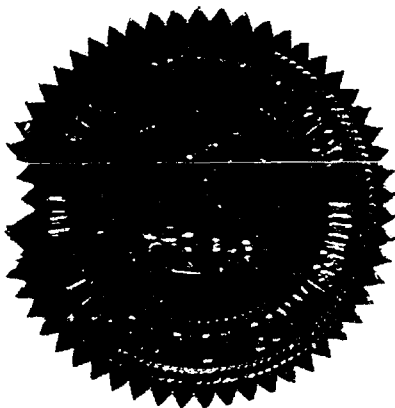
COME at Santa Fe, New Mexico on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*John Burroughs*  
JOHN BURROUGHS, Chairman

*Wm. C. Logan*  
CURRAY C. LOGAN, Member

*W. L. Porter, Jr.*  
W. L. PORTER, Jr., Member & Secretary



lcr/

October 27, 1959

Mr. Fred Hannahs  
Box 828  
Santa Fe, New Mexico

Dear Mr. Hannahs:

On behalf of your client, El Paso Natural Gas Company,  
we enclose two copies of Order No. R-1511 issued in  
Case 1777 by the Oil Conservation Commission on October  
26, 1959.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ir/

Enclosures: (2)

C  
O  
P  
Y

DOCKET: EXAMINER HEARING SEPTEMBER 10, 1969

Oil Conservation Commission - 9 a.m., Mabry Hall, State Capitol, Santa Fe, New Mexico

The following cases will be heard before Daniel S. Nutter, Examiner or A. L. Palmer, Jr., Secretary-Director.

CONTINUED CASE

CASE 1739: Application of Shell Oil Company for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its Hershaw Deep Unit Agreement comprising 1824 acres, more or less, of Federal and State lands in Township 16 South, Ranges 30 and 31 East, Eddy County, New Mexico.

NEW CASES

CASE 1760: Application of The Atlantic Refining Company for an automatic custody transfer system and for permission to produce more than 16 wells into a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing it to install an automatic custody transfer system to handle the production from all Horseshoe-Gallup oil wells on its Navajo "B" Lease comprising certain acreage in Township 31 North, Range 16 West, San Juan County, New Mexico.

CASE 1761: Application of Stanton Oil Company, Ltd., for a pilot water flood project. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Turkey Trunk Pool in Eddy County, New Mexico, by the injection of water into the Queen formation through four wells located in Section 34, Township 18 South, Range 29 East.

CASE 1762: Application of Newmont Oil Company for an unorthodox water injection well location. Applicant, in the above-styled cause, seeks an order authorizing it to reopen and utilize for water injection a well located on an unorthodox location at a point 1620 feet from the North line and 1020 feet from the West line of Section 32, Township 16 South, Range 31 East, Square Lake Pool, Eddy County, New Mexico.

CASE 1763: Application of Southwestern Hydrocarbon Company for an order abolishing the Sawyer-San Andres and South Sawyer-San Andres Oil Pools in Lea County, New Mexico, and creating the Sawyer-San Andres Gas Pool; or in the alternative for an order extending the horizontal limits of the South Sawyer-San Andres Oil Pool to include the NE/4 of Section 6, the N/2 of Section 5 and the NW/4 of Section 4, Township 10 South, Range 38 East, Lea County, New Mexico, and removing all gas-oil ratio limitations for wells in said pool; or in the alternative for an order combining the Sawyer-San Andres and the South Sawyer-San Andres Oil Pool as well as the intervening acreage, and removing all gas-oil ratio limitations for such pool.

CASE 1764: Application of Standard Oil Company of Texas for an unorthodox gas well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox gas well location in the Atoka-Pennsylvanian Gas Pool, at a point 1850 feet from the South line and 1650 feet from the East line of Section 14, Township 18 South, Range 26 East, Eddy County, New Mexico.

Docket No. 33-59

-2-

- CASE 1765: Application of The Ohio Oil Company for a salt water disposal well. Applicant, in the above-styled cause, seeks an order authorizing the disposal of produced salt water into the Lower San Andres formation through its State B-4286 "A" Well No. 2, located in Unit F, Section 2, Township 17 South, Range 36 East, Lea County, New Mexico. The proposed injection interval is from 5725 feet to 5968 feet.
- CASE 1766: Application of Northwest Production Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its "S" Well No. 16-2, located in the SW/4 SW/4 of Section 2, Township 24 North, Range 4 West, Rio Arriba County, New Mexico, in such a manner as to produce oil from an undesignated Gallup oil pool and to produce oil from an undesignated Dakota oil pool through parallel strings of tubing.
- CASE 1767: Application of El Paso Natural Gas Products Company for permission to produce more than 16 wells in a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing the production of a maximum of 35 wells in the Horseshoe-Gallup Oil Pool into a common tank battery. Said wells are located on applicant's Horseshoe Ute Lease comprising portions of Sections 27, 28, 33 and 34, Township 31 North, Range 16 West, San Juan County, New Mexico.
- CASE 1768: Application of T. F. Hodge for the rededication of acreage assigned to three oil wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order rededicating the acreage assigned to three oil wells on his Mary E. Wills Lease, Section 33, Township 26 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico. Applicant proposes to dedicate 40 acres to each of the three wells, said 40-acre units not to comprise a quarter-quarter section or legal subdivision.
- CASE 1769: Application of Pan American Petroleum Corporation for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its Northeast Hogback Unit Agreement, comprising 10,572 acres, more or less, in Township 30 North, Range 16 West, San Juan County, New Mexico.
- CASE 1770: Application of Pan American Petroleum Corporation for approval of a lease automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the automatic custody transfer of oil produced from its Lois Wengerd Lease in Sections 23 and 24, Township 12 South, Range 37 East, Gladiola-Devonian Pool, Lea County, New Mexico.
- CASE 1771: Application of Pan American Petroleum Corporation for approval of a lease automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the automatic custody transfer of oil produced from its USA Malco Refinery "F" Lease, Section 1, Township 18 South, Range 27 East, Empire-Abo Pool, Eddy County, New Mexico.
- CASE 1772: Application of Pan American Petroleum Corporation for approval of an automatic custody transfer system for four state leases in the Empire-Abo Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order amending Order No. R-1292 to provide for automatic custody transfer of oil commingled thereunder.



- CASE 1773: Application of Pan American Petroleum Corporation for approval of two automatic custody transfer systems for seven federal leases in the Empire-Abo Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order amending Order No. R-1399 to provide for automatic custody transfer of oil produced into the two commingled tank batteries authorized therein.
- CASE 1774: Application of Continental Oil Company for a non-standard gas unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas unit in an undesignated Tubb gas pool consisting of the E/2 NW/4 and the W/2 NE/4 of Section 15, Township 20 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to the applicant's Britt E-15 No. 10 Well, located in the SW/4 NE/4 of said Section 15.
- CASE 1775: Application of Continental Oil Company for a non-standard gas unit. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas unit in an undesignated Tubb gas pool consisting of the E/2 SE/4 of Section 15 and the W/2 SW/4 of Section 14, all in Township 20 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to the applicant's SEMU Well No. 70, located in the NW/4 SW/4 of said Section 15.
- CASE 1776: Application of Continental Oil Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order R-967, for nine wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order allowing the following-described wells in the Jalmat Gas Pool to compensate for their overproduced status without being completely shut-in in order to prevent possible waste:  
Ascarate D-24 Well No. 1, Unit J, Section 24, T-25-S, R-36-E, Danciger A-8 Well No. 2, Unit P, Section 8, T-23-S, R-36-E, Jack A-20 Well No. 4, Unit G, Section 20, T-24-S, R-37-E, Jack A-29 Well No. 3, Unit H, Section 29, T-24-S, R-37-E, Meyer A-29 Well No. 1, Unit O, Section 29, T-22-S, R-36-E, Meyer B-28 Well No. 1, Unit E, Section 28, T-22-S, R-36-E, State A-32 Well No. 4, Unit F, Section 32, T-22-S, R-36-E, Stevens A-34 Well No. 1, Unit E, Section 34, T-23-S, R-36-E, Wells B-1 Well No. 1, Unit A, Section 1, T-25-S, R-36-E, all in Lea County, New Mexico.
- CASE 1777: Application of El Paso Natural Gas Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order R-967, for two wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order allowing its E. J. Wells Lease Well No. 13, Unit L, Section 5, and its Wells B-4 Lease Well No. 1, Unit D, Section 4, both in Township 25 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to compensate for their overproduced status without being completely shut-in in order to prevent possible waste.
- CASE 1778: Application of Olsen Oils, Inc., for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order R-967, for four wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order allowing the following-described wells in the Jalmat Gas Pool to compensate for their overproduced status without being completely shut-in in order to prevent possible waste:  
Cooper B Well No. 2, NE/4 NW/4 of Section 14, T-24-S, R-36-E, Myers B Well No. 1, SE/4 NW/4 of Section 13, T-24-S, R-36-E, S. R. Cooper Well No. 1, SE/4 NE/4 of Section 23, T-24-S, R-36-E, Winningham Well No. 3, NE/4 SE/4 of Section 30, T-25-S, R-37-E, all in Lea County, New Mexico.

- CASE 1779: Application of Jal Oil Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order R-967, for four wells in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order allowing the following-described wells in the Jalmat Gas Pool to compensate for their overproduced status without being completely shut-in in order to prevent possible waste:  
Legal Well No. 2, NE/4 SE/4 of Section 21,  
Dyer Well No. 3, SE/4 NE/4 of Section 31,  
Jenkins Well No. 2, NE/4 SW/4 of Section 29,  
Ropollo Well No. 1, SW/4 NW/4 of Section 28,  
all in Township 25 South, Range 37 East, Lea County, New Mexico.
- CASE 1780: Application of Husky Oil Company for an exception to the overproduction shut-in provisions of Order R-520, as amended by Order R-967, for one well in the Jalmat Gas Pool. Applicant, in the above-styled cause, seeks an order allowing its Montecito Woolworth Well No. 2, Unit M, Section 33, Township 24 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to compensate for its overproduced status without being completely shut-in in order to prevent possible waste.
- CASE 1781: Application of Texaco, Inc. for permission to continue producing an over-produced Jalmat gas well at a lesser rate. Applicant, in the above-styled cause, seeks an order authorizing it to produce its C. C. Fristoe (b) NCT-4 Well No. 2, Unit M, Section 31, Township 24 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, at a maximum rate of 2500 MCF per month for lease use until over production has been compensated for.

**CLASS OF SERVICE**  
This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

**SYMBOLS**  
DL = Day Letter  
NL = Night Letter  
LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination.

BE THE CASE IF THE WELL WERE COMPLETELY SHUT-IN.  
DETAILED SUPPLEMENTAL LETTER OF APPLICATION WILL FOLLOW=  
NORMAN WOODRUFF EL PASO NATURAL GAS CO...!

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

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LA254

L EPA248 PD=WUX ELPASO TEX 31 427PMM=I  
NEW MEXICO OIL CONSERVATION COMMISSION,  
ATTN A L PORTER JR SECRETARY-DIRECTOR PO BOX 871  
STATE CAPITOL BUILDING PHONE YUCCA 2-2641  
SANTA FE NMEX=  
PLEASE SET HEARING FOR EXCEPTION TO RULE 10 OF THE  
JALMAT POOL RULES ORDER NO. 4-967 FOR THE FOLLOWING:  
EL PASO NATURAL GAS COMPANY WELLS B-4 NO. 1 LOCATED  
IN D-4-25-37 AND E. J. WELLS NO. 13 LOCATED IN  
L-5-25-37, LEA COUNTY, NEW MEXICO.

RELIEF NEEDED TO PERMIT THESE OVER PRODUCED WELLS  
TO MAKE UP OVERPRODUCTION AT A LESSER RATE THAN WOULD

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

# El Paso Natural Gas Company

El Paso, Texas

September 2, 1959

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Atten: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

This letter is to supplement the telegram dated August 31, 1959 in which El Paso Natural Gas Company requested that a Hearing be set for exception to Rule 10 of the Jalmat Pool Rules, Order No. R-967 for their Wells B-4 No. 1 located in D-4-25-37 and E. J. Wells No. 13 located in L-5-25-37, Lea County, New Mexico.

Both of the above mentioned wells are wells which have recently been changed from a marginal to a non-marginal classification on a retroactive basis with the result that the wells are more than six times overproduced and subject to shut-in in accordance with the provisions of Rule 10 of Order R-967.

Upon El Paso's determination that this overproduced condition would exist, both wells have remained shut-in except for an attempt to obtain some production for one day each month. We have been unable to obtain production from the E. J. Wells No. 13 well since the well was shut-in because it has loaded up with liquids. To return this well to production will require the services of a swabbing unit. It is feared that to leave this well in this condition for the period of time necessary to return the well to its balanced condition would result in permanent loss of the well.

El Paso requests that it be permitted to return this well to production and to produce it for such time as is found necessary to prevent an excess accumulation of liquids in the well bore, provided that such production during any one month does not exceed 50% of the average monthly allowable for the well during the preceding six months period.

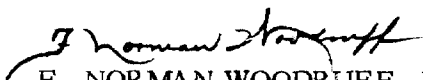
The Wells B-4 No. 1 Well also loads up with liquids, but we have found that it has unloaded its liquids during the short period of production each month. It is feared that prolonged shut-in of this well would permit liquids to accumulate which we would be unable to unload and which might cause permanent injury to the well. Consequently, El Paso requests that it be permitted to produce this well for such time as is found necessary to prevent an excess accumulation of liquids in the well bore, provided that such production during any one month does not exceed 25% of the average monthly allowable for the well during the preceding six months period.

New Mexico Oil Conservation Commission  
Atten: Mr. A. L. Porter, Jr.  
September 2, 1959

Page two

It is further requested, pending final action of the Commission on the Hearing requested, that El Paso be permitted to operate these two wells in the manner prescribed herein.

Yours very truly,

  
F. NORMAN WOODRUFF, Manager  
Gas Proration Operations

FNW:mgs

CC: Mr. R. F. Montgomery  
New Mexico Oil Conservation Commission  
P. O. Box 2045  
Hobbs, New Mexico

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION

IN THE MATTER OF THE APPLICATION OF  
EL PASO NATURAL GAS COMPANY FOR AN  
EXCEPTION TO RULE 10 OF THE JALMAT  
POOL RULES, ORDER NO. R-520 AS AMENDED  
BY ORDER NO. R-937, NEW MEXICO OIL  
CONSERVATION COMMISSION RULES AND  
REGULATIONS, TO PROVIDE THAT ITS E. J.  
WELLS NO. 13 AND ITS WELLS B-4 NO. 1,  
LEA COUNTY, NEW MEXICO, BE ALLOWED TO  
PRODUCE GAS DURING SHUT-IN PERIOD IN  
ORDER TO PREVENT THE PREMATURE ABANDON-  
MENT OF SAID WELLS.

CASE NO. 1717

A P P L I C A T I O N

TO THE HONORABLE COMMISSION:

COMES NOW El Paso Natural Gas Company, hereinafter referred  
to as "Applicant," and alleges and states:

I.

Applicant is a Delaware corporation with a permit to do  
business in the State of New Mexico;

II.

Heretofore, El Paso has filed with the Commission by  
telegram, which was later supplemented by a letter, all of the  
information and allegations contained in this application, and this  
application is made for the purpose of keeping the record in order  
and of formally submitting to the Commission the allegations  
previously made;

III.

Heretofore, El Paso's E. J. Wells No. 13 located in  
L-5-25-37 and El Paso's Wells B-4 No. 1 located in D-4-25-37, both  
in Lea County, New Mexico, were classified as marginal wells.  
Recently, by order of the New Mexico Oil Conservation Commission,  
both of said wells were given a nonmarginal classification on a  
retroactive basis with the result that said wells are now more than  
six times overproduced and subject to being shut-in in accordance

with provisions of Rule 12 of Order 4-97, Rules and Regulations of the New Mexico Oil Conservation Commission;

IV.

Since the date that said wells were reclassified as non-marginal, said wells have remained shut-in except for an attempt to obtain some production for one day each month. This shut-in has resulted in a loading up of E. J. Wells No. 13 with liquids, thereby rendering said well incapable of production. Said well may be returned to production at this time by employing the services of a swabbing unit, but should said well remain shut-in until it returns to a balanced condition, permanent loss of the well is likely;

V.

It is considered that E. J. Wells No. 13 Well can be returned to production by swabbing operations and that the accumulation of excess liquids can be prevented in the future by producing this well each month. It should not be necessary to produce said well at a rate in excess of fifty percent (50%) of the average monthly allowable for the well during the preceding six months' period in order to prevent such accumulation;

VI.

During said shut-in period, said Wells B-4 No. 1 Well has loaded up with liquids but has been able to unload said liquids during the short period of production each month. The prolonged shut-in of this well would permit liquids to accumulate which could not be unloaded and which would likely cause permanent injury to and the premature abandonment of said well. It is considered that an excess accumulation of liquids could be prevented by allowing said well to produce for the necessary length of time, not to exceed twenty-five percent (25%) of the allowable for the well during the preceding six months' period during any one month.

VII.

The Commission has jurisdiction to hear and determine this cause and to grant the relief requested;

VIII.

The granting of this application will prevent waste and will not prejudice or violate correlative rights;

WHEREFORE, Applicant respectfully requests this matter be set for hearing before an examiner for the Commission and that upon due notice and hearing, the Commission issue its order granting an exception to Rule 10 of the Jalmat Pool Rules, Order No. R-520 as amended by Order No. R-967, for said wells and to provide for the production of said wells as above requested, and for such other and further relief, either at law or in equity, to which Applicant may show itself justly entitled.

SETH, MONTGOMERY, FEDERICI & ANDREWS

By *James L. Pannan*

*Garrett C. Whitworth*  
Garrett C. Whitworth



1

1. 1000 ft. deep  
2. 1000 ft. deep  
3. 1000 ft. deep

4. 1000 ft. deep  
5. 1000 ft. deep  
6. 1000 ft. deep

17# 1000 ft. deep  
18# 1000 ft. deep

19# 1000 ft. deep  
20# 1000 ft. deep

21# 1000 ft. deep  
22# 1000 ft. deep  
23# 1000 ft. deep

24#

EX 1.

EL PASO NATURAL GAS COMPANY  
State of New Mexico  
Oil-Field Bank Insurance Department  
(Dally Building)

Well: Jalmat Location: Yates - 7 Rivers County: Lea  
 Interval: Annual X Special Date of test: 3-6-59  
 Company: El Paso Natural Gas Company Lease: Wells Federal Well No.: 13  
 Well L Sec. 5 Twp. 25 R. 37 Township: El Paso Natural Gas Company  
 Casing 5.5 W. 15.5 I.D. 3369 Depth: 3369  
 Tubing 2.0 W. 4.7 I.D. 1.995 S. 3034 Depth: 3034  
 Gas Pay: From 3000 To 3034 L. 3034 S. 3034 G. .657 M. 1993 Bar. Press 1.000  
 Producing thru: Casing 3034 X Single  
 Series 90 Meter Run 3034 Single - Bradenough-10. by O.C. Dual

FLOW DATA									
Started	Time	Time	Time	Duration	Flow	Rate	Pressure	Initial	Temp.
Date		Date		Hours	Rate	Rate	Rate	Rate	Rate
2-27-59	10:00AM	3-3-59	10:00AM	24	Flg.	4	1.000	238.2	18.49
	PM		PM						

FLOW CALCULATION							
Static	Differ-	Water	48-Hour	Gravity	Temp.	Compress-	Rate of Flow
Pressure	ential	Extension	Coeff-	Factor	Factor	ibility	MCF/Da @ 15.025 psia
P <sub>st</sub>	P <sub>w</sub>	P <sub>st</sub> P <sub>w</sub>	icient	F <sub>g</sub>	F <sub>t</sub>	F <sub>cp</sub>	Q
238.2	18.49	66.37	6.135	.9556	.9952	1.022	395.7

SHUT-IN DATA				FLOW DATA			
Shut-in	Time	Pressure	Time	Duration	Wellhead Pressure	W.H. Working Pressure	Pressure
Date		Date		Hours	(P <sub>wh</sub> )	(P <sub>wh</sub> )	(P <sub>wh</sub> )
					psia	psia	psia
					Casing	Casing	Casing
3-3-59	10:00AM	3-4-59	10:00AM	24	367.2		
	PM	3-5-59	10:00AM	48	358.2	240.2	
		3-6-59		72	345.2		

FRICTION CALCULATION (for 1000 ft)

$P_w^2 = 57.7 + (15.5)(.128) = 59.7$

**BEFORE EXAMINER NUTTER**  
**OIL CONSERVATION COMMISSION**  
 DELIVERABILITY EXHIBIT NO. 1  
Appl  
 CASE NO. 1777

$P_w = 244.3$        $P_{wh} = 367.2$        $P_{wh} = 367.2$  psia  
 $P_{wh} = 395.7$  MCF/Da.  
 $P_{wh} = 244.3$  psia  
 $P_{wh} = 293.8$  psia  
 $P_{wh} = 308.7$  MCF/Da.  
 $P_{wh} = 9.892174-10$  +  
 $P_{wh} = 2.597366$   
 $P_{wh} = 12.489540$   
 $P_{wh} = 308.7$

Company: El Paso Natural Gas Company  
 Address: P. O. Box 1384, Jal, New Mexico  
 Agent and Title: R. T. Wright - Petroleum Engineer  
 Witness: L. D. Southern - Gas Tester  
 Company: El Paso Natural Gas Company

Ex 2-A

Jalmat 7 Rivers Lea  
 El Paso Natural Gas Company  
 D 4 25 37 Wells B-4  
 7 24 6.336 3364  
 2 4.7 1.995 2995  
 2985 3152 2995 .460  
 El Paso Natural Gas Company 2958 3152  
 1977 Single

4-7-58 10:40 4-8-59 10:40 24 1.000 600.2 1.00 71

600.2 1.00 24.50 6.135 .9535 .9896 1.057 150

4-8-58 10:40 4-9-58 24 651.2 651.2  
 4-10-58 10:40 48 663.2 663.2 600.2 623.2\*  
 4-11-58 72 658.2 658.2

PW Measured

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2A

CASE NO. 1777

623.2

663.2

.9396

.0604

1.9396

.1172

3.072

.4674212

.771 \*\*

.3758017

El Paso Natural Gas Company

P.O. Box 1384; Jal, New Mexico

Earl G. Smith, Gas Engineer

J.B. Murray

El Paso Natural Gas Company

2.1760913

2.5516930

356

\* Unable to obtain 10% draw down due to restriction in chokes.  
 \*\* Average Jalmat Slope.

Field No. 1-1

WELL NAME: 7 RIVERS  
State of New Mexico  
County: Santa Fe  
(Deliverability)

Ex 2-8  
11/11

Well: Jalmat Formation: 7 Rivers County: Lea  
Initial: Annual X Special Date of Test: 3-6-59  
Company: El Paso Natural Gas Company Lease Wells B-4 Well No. 1  
Well D Sec. 4 Twp. 25 Rge. 37 Purchased by: El Paso Natural Gas Company  
Casing: 7.0 Wt. 24.0 I.D. Set at 3364  
 tubing 2.0 Wt. 4.7 I.D. Set at 2995  
 Gas lay: From 2985 to 3152 L 2995 A .656 = GL 1965 Bar. Press 13.4  
 Producing from: Casing Parting X Type Well: Single  
 Series 40 Meter Run Parker at None Single - Bradenhead-2.0. or G. L. Duml

FLOW DATA									
Started	Time	Taken	Time	Duration	Time	Line	Size	Differ-	Flow
Date		Date		Hours	Days	Size	Inches	ential	Temp.
2-27-59	10:40AM	3-3-59	10:40AM	24	Flg.	4	1.750	242.2	5.76 68
	PM		PM						

FLOW CALCULATIONS							
Static Pressure	Differ-ential	Meter Extension	24-Hour Coeff-icient	Gravity Factor	Temp. Factor	Compress-ibility	Rate of Flow
P <sub>s</sub>	P <sub>w</sub>	P <sub>r</sub> P <sub>w</sub>	P <sub>relat</sub>	F <sub>g</sub>	F <sub>t</sub>	F <sub>cp</sub>	MB/D or G.P.M. psia
242.2	5.76	37.35	19.27	.9564	.9924	1.022	698.1

SHUT-IN DATA				FLOW DATA			
Shut-in	Press.	Taken	Duration	Wellhead Pressure	W.H. Working Pressure	Pressure	Pressure
Date	Time	Date	Time	Hours	(P <sub>w</sub> ) psia	(P <sub>w</sub> ) and (P <sub>s</sub> ) psia	Pressure
		3-4-59		24	589.2	589.2	
3-3-59	10:40AM	3-5-59	10:40AM	48	588.2	588.2	257.2 475.2
		3-6-59		72	587.2	587.2	
	PM						

FRICTION CALCULATION (H. H. Robertson)				STRAIGHT			
P <sub>w</sub> Measured					589.2		
					698.1		
					475.2		
					471.4		
					714.2		
					.009897		
					2.843918		
					2.853815		
					714.2		

Company: El Paso Natural Gas Company  
Address: P. O. Box 1384, Jal, New Mexico  
Agent and Title: R. T. Wright - Petroleum Engineer  
Witness: L.D. Southern, Gas Tester  
Company: El Paso Natural Gas Company

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 27  
CASE NO. 1777

Ex 2-B

Location: Jalmat      Formation: 7 Rivers      County: Lea  
 Interval: Annual      X      Special      Date of Test: 3-6-59  
 Company: El Paso Natural Gas Company      Lease: Wells B-4      Well No.: 1  
 Well ID: Sec. 4      Twp. 25      R. 37      Purchased: El Paso Natural Gas Company  
 Casing: 7.0 Wt. 24.0 I.D.      Serial: 3364      Perf.      T.  
 Tubing: 2.0 Wt. 4.7 I.D.      Serial: 2995      Perf.      T.  
 Perforations: From 2985      To 3152      L 2995      X .656      = 31      1965      Bar. Press 13.0  
 Producing Fluid: Gas      Facing: X      Type: Well: Single  
 Series: 40      Meter Run: Parker at      None      Single - Bradenhead-1.0. at G. N. Deal

FLOW DATA

Started Date	Time	Taken Date	Time	Duration Hours	Type	Size	Initial Pressure	Flow Temp.
2-27-59	10:40AM	3-3-59	10:40AM	24	Flg.	4	1.750	242.2
	PM		PM					

FLOW CALCULATIONS

Static Pressure	Differential	Meter Extension	24-Hour Coeff.	Gravity	Temp. Factor	Compress.	Date of Flow
P <sub>s</sub>	P <sub>w</sub>	P <sub>r</sub> P <sub>w</sub>	Factor	G <sub>g</sub>	T <sub>g</sub>	F <sub>g</sub>	Q
242.2	5.76	37.35	19.27	.9564	.9924	1.022	698.1

SHUT-IN DATA				FLOW DATA			
Shut-In Date	Time	Press. Taken Date	Time	Duration Hours	Wellhead Pressure (P <sub>w</sub> )	Working Pressure (P <sub>w</sub> )	Flow Rate (Q)
3-3-59	10:40AM	3-4-59		24	589.2	589.2	
		3-5-59	10:40AM	48	588.2	588.2	257.2
		3-6-59		72	587.2	587.2	475.2
	PM		PM				

FRICTION CALCULATION (if necessary)

SUMMARY

P <sub>w</sub> Measured	475.2	P <sub>o</sub>	589.2	F <sub>g</sub>	.8065	Q	589.2	psia
P <sub>w</sub>		P <sub>o</sub>		F <sub>g</sub>		Q	698.1	MCF/Da.
F <sub>g</sub>	.1935	P <sub>o</sub>	1.8065	F <sub>g</sub>	.3496	Q	475.2	psia
.36 + M	1.030	P <sub>o</sub>	.012837	F <sub>g</sub>	.771	Q	471.4	psia
		P <sub>o</sub>		F <sub>g</sub>		Q	714.2	MCF/Da.
		P <sub>o</sub>		F <sub>g</sub>		Q	.009897	
		P <sub>o</sub>		F <sub>g</sub>		Q	2.843918	
		P <sub>o</sub>		F <sub>g</sub>		Q	2.853815	
		P <sub>o</sub>		F <sub>g</sub>		Q	714.2	

Company: El Paso Natural Gas Company  
 Address: P. O. Box 1384, Jal, New Mexico  
 Agent and Title: R. T. Wright - Petroleum Engineer  
 Witnessed: L.D. Southern, Gas Tester  
 Company: El Paso Natural Gas Company

REMARKS

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
SEPTEMBER 30, 1959.

IN THE MATTER OF:

Application of El Paso Natural Gas Company for  
an exception to the overproduction shut-in  
provisions of Order R-520, as amended by Order  
R-967, for two wells in the Jalmat Gas Pool.  
Applicant, in the above-styled cause, seeks an  
order allowing its E. J. Wells Lease Well No.  
13, Unit L, Section 5, and its Wells B-4 Lease  
Well No. 1, Unit D, Section 4, both in Township  
25 South, Range 37 East, Jalmat Gas Pool, Lea  
County, New Mexico, to compensate for their over-  
produced status without being completely shut-in  
in order to prevent possible waste.

CASE NO.

1777

BEFORE:

Mr. Daniel S. Nutter, Examiner

TRANSCRIPT OF PROCEEDINGS

MR. NUTTER: The hearing will come to order, please.  
We will take next case #1777.

MR. PAYNE: Case Number 1777. Application of El Paso  
Natural Gas Company for an exception to the overproduction shut-in  
provisions of Order R-520, as amended by Order R-967, for two wells  
in the Jalmat Gas Pool.

MR. HANNAHS: Fred Hannahs, Seth, Montgomery, Federici,  
and Andrews, Santa Fe, representing El Paso Natural Gas Company, the  
applicant. Garrett Whitworth of El Paso who will make the interro-  
gation.

MR. WHITWORTH: We have one witness to be sworn, Mr.



Dave Rainey.

(Witness sworn.)

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D A V I D H. R A I N E Y, a witness called by and on behalf of the Applicant, being first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITWORTH:

Q Will you state your name, and by whom and in what capacity you are employed, Mr. Rainey?

A David H. Rainey, administrative assistant in the Proration Department for El Paso Natural Gas Company.

Q Are you familiar with El Paso's application in this case, and the wells involved?

A Yes, sir, I am.

Q Where are these wells located, Mr. Rainey?

A Both of these wells are located in the Jalmat Gas Pool. The first one is our Wells Federal Number 17, located in Unit L of Section 5, 25 South, 37 East; and our Wells B-4 Number 1, which is located in Unit D of Section 4, 25 South, 37 East.

Q Now, prior to proceeding with the rest of the testimony, have you previously testified before this Commission as an expert proration engineer?

A Yes, sir.

MR. WHITWORTH: We ask that the witness' qualifications



as an expert proration engineer be accepted.

MR. NUTTER: They are accepted. Proceed.

Q (By Mr. Whitworth) Mr. Rainey, would you describe to the Examiner the condition of these two wells at the present time?

A Both of these wells are in substantially overproduced condition due to the fact that for a considerable period of time they were classified as marginal; during that period of time they were produced essentially 100 percent of the time, and in July I believe, in June or July of 1959, the wells were reclassified to non-marginal, retroactive to July 1st, 1958, and their allowable and status corrected accordingly. As a result, as I stated previously, they are considerably overproduced. The Wells B-4 Number 1 had a net allowable in September 1959 of 75,200 MCF. The well B -- excuse me -- the Wells Number 13 had a net allowable for September 1959 of 69,978 MCF. Excuse me, that's a -- it is a negative allowable figure, I stated a minus figure in each case.

Based on the last six months' allowables which have been granted to each of these wells, and taking a rough approximation as an average, the Wells B-4 Number 1 is from 12 to 15 months overproduced, and the Wells Number 13 is from 16 to 18 months overproduced. That is the net overproduction, cumulative overproduction. Both of these wells are presently tied into our intermediate gathering system at approximately 250 pounds.

The Wells Number 13 is at the present time logged off and will not produce at all. The Wells B-4 Number 1 has an accumulation





of liquids in the well bore and has a paraffin plug at approximately 1678 feet from the surface, and we were unable to obtain the exact fluid level below that paraffin plug. However, there is apparently enough permeability, if you want to call it that, in that paraffin plug that that well will produce very small quantities. However, we are afraid that if it is shut off any longer, it will log off completely too.

Q Mr. Rainey, do you have any opinion as to the cause of the condition of these wells?

A I'm afraid I don't understand your question.

Q Why are the wells in the logged off condition?

A These wells, at the time we were advised that they were going to be reclassified, were severely curtailed and the Wells B-4 Number 1 was essentially shut in on May 8th, 1959; produced for a period of about two days in June of 1959; to obtain a G. P. M. settlement test on the well, during July and August it was produced for approximately one day in each month, in accordance with our practice of trying to obtain at least one day's production per month from our wells: In September 1959 the well was also on for two and a half to three days to obtain the quarterly G. P. M. settlement test on it. The Well Number 13 was shut in on June 5th, 1959, and a settlement test was obtained during the month of June, which the well was on for about three days; since that time the well has been completely logged off and unable to produce.



Q Would you say that because these wells have been shut in in conformance with Rule 520 as amended by Rule 967 of the Rules and Regulations of New Mexico Commission, would you say that is the reason that the wells are in the present condition?

A Yes, sir.

Q How long have the wells been in that condition, Mr. Rainey?

A Well, as I just stated, the B-4 Number 1 has been essentially shut in since the 8th of May, and the Wells Number 13 has been shut in since June 5th, just a very short period of production in each one of the wells.

Q Now, do you know when these wells were reclassified as non-marginal?

A Yes, sir, they were reclassified as non-marginal, as I recall, in June, May or June of this year, with the classification effective retroactive to July 1st, 1958.

Q Is that the reason for their overproduction status?

A Well, that's partly the cause of their overproduction. The wells, as I stated previously, were classified as marginal sometime prior to July 1958, and from that time until June or July of 1959, were produced essentially all the time.

When the retroactive classification was made on the basis of a deliverability formula, it was determined that the wells were capable of producing considerably in excess of their calculated allowable under the deliverability formula, whereas in truth they



had been marginal under the old acreage formula in existence in the Jalmat Pool prior to July 1st, 1958.

Q Now, what remedial efforts have been made with respect to these two wells?

A First, we ran a bomb, a bottom hole pressure bomb on each well in an effort to determine the fluid level. In Wells Number 13 the fluid level was determined to be at 1730 feet from the surface; the shut-in surface pressure was 140.2 P.S.I.A.; and bottom hole pressure obtained from the bomb was 633.2 P.S.I.A. On the Wells B-4 Number 1 the bomb was ran to a depth of 1678 feet and at that point it encountered a paraffin plug, that I mentioned previously, and was unable to penetrate it. It is my understanding from talking to personnel that they broke two paraffin plugs because the bomb stopped when they went through the hole, but they were unable to penetrate that hole.

On the B-4 Number 1, we last week went out and blew the well through a 4-inch manifold into the atmosphere, and in five minutes the pressure was reduced to 20 pounds on the casing because -- excuse me, on the tubing, and the casing pressure went from 590 pounds to 545 pounds in five minutes. We continued to blow the well, and after another 20 minutes, the tubing pressure remained at 20 pounds, and the casing pressure had dropped off to 395 pounds. At that point they apparently stabilized in their pressure, there was no further reduction. However, we didn't flow the thing any extended period of time and apparently that paraffin bridge was



restricting the tubing and wouldn't equalize. It was an effective bridge there to a certain extent, and the volume of gas was not sufficient to unload any fluid in that paraffin plug up the tubing.

The Wells Number 13 had a tubing pressure of 190 P.S.I.G., with a casing pressure of 475 P.S.I.G. The tubing was opened to the atmosphere in an effort to unload it; the pressure on the casing was not sufficient to unload the volume of liquid in the well bore. We then, with an equalizer, backed the line pressure up, which at that time was about, oh, 225 pounds, I believe, backed the line pressure up on the casing in an effort with that additional pressure to unload the tubing, and it still would not unload. We then reversed the thing and put the additional pressure on the tubing in an effort to unload the casing, and the well is just flat dead.

Q Which well is that now?

A Number 13, that is completely dead.

Q In your opinion, what would it take to return this well to production?

A Well, at the present time we have some plans to lay a short temporary line from our high pressure system, which is fairly close to this well, and we are going to try to pressure up on the casing with an additional 600 pounds, and see if we can unload the tubing strings with that, and possibly rock the thing back and forth, putting that pressure on the casing and tubing, and see if it can blow clear. If that won't do it, it will be



necessary to move a swabbing unit and swab it off before obtaining production.

Q Do you have any data, Mr. Rainey, reflecting any history of deliverability of these two wells?

A Yes, sir, both of these wells have continuously shown the fluid condition. The Wells B-4 Number 1 was completed originally as an oil well in 1939, and was depleted and plugged back in 1948 to the Jalmat gas zone; and by communitization and operating agreement we obtained this well from Western States Petroleum Corporation, which is now Hamilton Oil Company and Indiana Petroleum. Prior to the time that this well was hooked into the intermediate system, which was December 9, 1958, it had a continuous history of fluid trouble. We managed to maintain production on it sufficiently to keep it unloaded, but it did display fluids every time we blew it.

The well Number 13 logged off quite frequently on the high pressure system. It was obtained from Anderson-Pritchard under an operating agreement whereby we took over gas wells from them after payout and we took over operation of this particular well on March 20th, 1955. This well is also an old one, it was completed in 1947, I believe. Both of these wells are pretty old, and fairly well depleted.

We have -- Exhibit 1 is the 1959 deliverability test on the Wells Number 13, and if you will notice the shut-in pressure history, it will be noted that the shut-in pressure dropped off both



from the 24-hours to the 48-hour shut-in, and from the 48 to the 72-hour shut-in, indicating the press of fluid in this well. I might also add that there was a test taken by Anderson-Pritchard on this well as far back as 1951, which indicated pretty conclusively the press of fluid. They took a 24-hour shut-in in April of 1951 and got a shut-in well head pressure of 856 P.S.I.G.

In October of 1951, after a 146-day shut-in - now why the well was shut in, I don't know but that was the indication on the test report - the well indicated only 237 pounds P.S.I.G. So it's had a long history of fluid problems.

Now, to pass on to Exhibit 2-A and 2-B, which are the 1958 and 1959 tests, State deliverability tests on the Wells B-4 Number 1, between the 24 and 48-hour shut-in on the 1958 test the well's pressure increased; however, on the 48 to 72-hour shut-in, it decreased from 663 to 68.2. On the 1959 State deliverability test, the well dropped off 1 pound each 24 hours from the 24-hour shut-in to the 72-hour shut-in, which is general evidence of fluid. Apparently this well does not log up very rapidly, as evidenced by that fairly slight drop in pressure. However, it is our opinion that if the well is shut in for any extended period of time, it may log off and may become as bad a condition as well Number 13.

Q What is your opinion as to what would be necessary to maintain these wells as producers?

A In the letter that we filed as an application in this case, and I'll have to confess I have not seen the formal applica-



tion on the thing yet, we requested that we be permitted to produce the B-4 Number 1 at a rate not to exceed 25 percent of its monthly allowable; and the Wells Number 13 at not to exceed 50 percent of its monthly allowable. I'm in accord with the testimony that Mr. Queen gave in the previous case, that it is pretty hard to pick a definite percentage before you test these wells to some extent.

I think I am prepared to state that we feel the B-4 Number 1 can probably remain unloaded at the rate of 25 percent of the allowable that it has been receiving in the past few months; however, if we have any real low months like May 1959, where the well had an allowable, calculated allowable of 673 MCF, it is conceivable that a volume of that size would not be sufficient to keep the well unloaded, and we would request, if it is necessary to make a formal amendment to the application, I would like to do so at this time.

We would request that we be permitted to test these wells for a short period of time to determine what their optimum rate would be.

Now, on this Wells Number 13, we have no idea what the rate would be; it is logged off completely at the present time, and we don't know what it is going to take to unload it, or what it is going to take to keep it unloaded, because prior to July 1959 it had been on continuous production, which of course was sufficient to keep it unloaded. It may be necessary to produce the well at a reduced rate continuously, or we may need to produce the well for



two or three days a month, or two or three days twice a month, or we may even find that the most efficient way to produce the thing is to put an intermitter; but at the present time, in the well's condition, we have no way of knowing what rate it will take to keep that well unloaded.

To a lesser degree, we are in the dark on the B-4 Number 1, but as I say, it is capable of a producing rate now, and if we take that paraffin out and produce it at the rate of something over 25 percent of average allowable for the last six months which would be, oh, approximately a million cubic feet per month, why it would keep it unloaded.

Q To your knowledge, does El Paso have any other wells that are in a similar status at this time?

A Well, several other wells that are shut in for being more than six times overproduced, however, the liquid problem is not particularly acute, and we have not requested relief on those wells because we don't think it is, the liquid is sufficient to permanently damage the well. On these wells, if the liquid stands against the face of the producing zone for any extended period of time, it is quite possible it might plug those wells and lose them completely.

Q Is it your opinion that if an exception to the rule is not granted, or some relief granted to allow these wells to produce, that it is likely that it will result in permanent loss of the wells, is that right?





A That is right; if not permanent loss, very definitely damage to the well. Until such a thing has happened, it is pretty hard to determine just exactly how much damage, or whether you would actually lose a well or not.

Q In your opinion, Mr. Rainey, would the granting of this application prejudice or violate any correlative rights, to your knowledge?

A No, sir, we are not requesting that the overproduction be wiped out, or that we be granted any special allowable to take care of the old production. We are merely requesting, in accordance with the existing rules in the field, permission to make up overproduction at a lesser rate than absolute shut-in.

Q Is it your opinion that to grant relief requested by El Paso in this case, would have the effect of preventing waste?

A Yes, sir, unquestionably; as I previously stated, it is highly probable that these wells will be permanently damaged, if not absolutely lost, through extensive periods of shut-in because they are not, they are not real pool wells, but at the same time they are not extra good wells, and if we had to go in and rework the well and refrack it to bring it back to production, if it has plugged the formation sufficiently with fluids, it is possible that the cost of that reworking job would not be justified by the potential deliverability of these wells, and there would be premature abandonment of these wells.



Q Now, if the wells are prematurely abandoned, would you say that there would be waste to the whole pool, not on just these wells?

A It is quite possible. There again that's a little bit argumentative, but it is highly probable that all the gas that lies under the acreage dedicated to these wells would not be produced by some offsetting wells, so it would be lost to the pool in general.

Q Will you state to the Examiner the conditions under which El Paso's Exhibits in this case have been prepared?

A These exhibits were furnished to me by our gas engineering department in Jal, and are not exact copies of the deliverability tests that were filed with the Commission, because as you'll note, they have the El Paso heading on the test form. However, it is the identical information that was filed with the Commission, and should be on file in the Commission office.

MR. WHITWORTH: We ask that El Paso's Exhibits 1 and 2-A and 2-B be admitted into evidence.

MR. NUTTER: El Paso's Exhibits 1, and 2-A and 2-B will be entered into evidence.

Q (By Mr. Whitworth) Do you have anything else you would like to add to your testimony, Mr. Rainey?

A No, sir, I believe not.

MR. WHITWORTH: That's all I have.



CROSS EXAMINATION

BY MR. PAYNE:

Q Mr. Rainey, are both of these wells single completions?

A Yes, sir.

Q And are both of them tubed?

A Yes, sir, as are all our wells, I might add.

Q How many wells do you have in the Jalmat?

A I have not the slightest idea; I can counsel with Mr. Balls and find out, I wouldn't hazard a guess.

Q Do both of these wells have blowdown strings?

A No, sir, they have manifold so that we can blow them into pits.

Q Now, you have had this exception for production one month, a month?

A We have taken exceptions to take G. P. M. tests.

Q You feel that this relatively short period of time of shut-in has not caused material damage to the well or the reservoir?

A I don't know; the Number 13 is completely logged off now, and I don't know what it is going to take to return it to production, and it is highly possible it won't be able to produce at the rate it was producing before it logged off. That is a question, as I say, you can't answer until you get into it and find out.

Q Why did you shut the well in?



A In an effort to conform with the rules and regulations of the Commission. These wells had not logged off since being connected into our intermediate system; they had had a history of liquid problems when we were on the high pressure system.

The Number 13 has been on the intermediate system a number of years and has been logged periodically when it has been shut in. The B-4 Number 1 was only connected to the intermediate system in December '58. Since that time we have had no additional problems because they were marginal wells.

Q The Commission has not issued a shut-in order on either of these wells, has it?

A Not a formal order, however, the wells are more than six times overproduced, and in conformance with the rules and regulations, we cut them back.

Q Now, this 25 and 50 percent of monthly allowable, I believe your application says for the preceding 6-month period; do you mean the preceding 6-month proration period, or do you mean the preceding --

A Well, as far as we are concerned, it is actually immaterial; we are trying to arrive at some average allowable figure to take a realistic look at how much production it would take. As I stated in my direct testimony, I would like at this time, if permitted to do so, to actually amend that thing to allow us to determine what rate it is going to take, and we can notify



the Santa Fe office, or the Hobbs office, of the Commission, what rate we feel it would be necessary to maintain those wells on production.

Q Assuming that the Commission sees fit to grant your application, would you have any objection to an order providing that the one could produce 25 percent, and the other 50 percent, and the order contain a provision for administrative approval for a higher rate, if you satisfied the secretary-director that the optimum rate was somewhat higher than these figures?

A No, we would have no objection to that; that in essence is really what we are asking for. Our best estimate of the picture right now is that 25 percent on the B-4 Number 1, and 50 percent on the other would probably do; until we test, we have no way of knowing. It is probable a lesser rate would do it, and we have no objection to reducing that rate, because as has been previously stated here this morning, it is to the operator's benefit to get a well in balance as rapidly as possible. So if we can get them on production by producing 10 percent of the allowable, we would be glad to do so.

Q The only difficulty would be that you could only produce at 25 and 50 percent?

A Well, that's true; however, if you have an administrative means of granting volumes in excess of that, it would appear to me that it would be relatively simple; one day's notice, or two day's notice, discussion with the secretary-director, to be



permitted to increase that rate somewhat, so that we can get it on the line.

Q There certainly would be no reason to notify offset operators, is there?

A I can see no particular need to do so, because as I say, we are not asking for relief for making up the overproduction, we are just requesting under the rules, permission to do it at a lesser rate rather than absolutely shutting them in.

MR. NUTTER: Any other questions of Mr. Rainey?

QUESTIONS BY MR. NUTTER:

Q Mr. Rainey, what actual evidence is there that this B-4 Number 1 has a liquid problem?

A Well, I never heard of a dry gas well getting a paraffin plug in it. It would seem pretty conclusive since there is paraffin in the well there, there must be some liquid in the well bore.

Q Is it rather unusual for paraffin to form at a depth of 1678?

A 1678. Apparently the well has been making liquid on production, but in not sufficient quantities to keep, I mean, to keep it from producing because, as I have previously stated, we have been producing these wells as marginal wells at a fairly high rate of production; but the paraffin has apparently accumulated, over a period of time and has now gotten to a point where it's got a plug where the bomb won't go through.



Q Has it been established that this was paraffin?

A Yes, sir, there was paraffin on the bomb when it was pulled out.

Q This could have been from those two paraffin plugs that the bomb had there, wouldn't it?

A Well, it was generally concluded that if there were paraffin plugs up above, it was completely conclusive there was a paraffin plug below; I'm also advised that they, the bombardier penetrated the thing, they could tell by the wire line measurement that it was penetrating into something, and if it was a bridge in the casing or the tubing, or that there was some sand in there, it is pretty unlikely that the bomb would have penetrated any considerable distance into it.

MR. PAYNE: You would find out very shortly whether you had a water problem?

A I'm reasonably certain, particularly if the application is granted, we intend to go in with scrapers and clean that well out. It is highly possible even when this 1959 deliverability test was taken, the well was on restricted production because of the paraffin problem.

Q (By Mr. Nutter) Is this what they said in their explanation on this test, that they were unable to obtain a 10 percent drawdown due to restriction on the chokes, was that also paraffin?

A I don't know, factually. I'm just unable to say. It might have been paraffin, and it might not have been, I don't



know.

Q On this Exhibit Number 2-A, this first statement that is given on that shut-in 1959, could that be 1958?

A Excuse me. Yes, sir, it must be.

Q This is a 1958?

A Yes, sir, it is an additional '58 test, just a typographical error when we made up these exhibits.

Q Now has any estimation been made of the actual amount of liquid that one of these wells makes? You heard the Continental witness testify that on a blowdown it recovered 4 barrels of fluid, or 12 barrels of liquid.

A No, sir, we have not because as I stated, these wells have been on the line essentially all the time that they were shut-in because of this excessive overproduction, and the rate of production has been sufficient to keep them unloaded, and apparently this liquid has blown over into the line; we have no measurement of the actual volume that was produced any given day. I might point out that this Number 13 that has the liquid level at 1730, I believe it was, that the well is perforated from 3,000 feet to 3,023 feet, and from 3,048 feet to 3,080 feet, with a plugback total depth of 3246, so there is approximately 1500 feet of fluid in that hole right now.

Now, I realize that in the tubing string and casing string, 1500 feet of fluid is not a substantial quantity of fluid as far as barrels is concerned; nevertheless, it has built up that high





in just a period of about two months.

Q Is the liquid build-up in that well water or hydrocarbon?

A It is water, but I understand there is some water emulsion.

MR. PAYNE: Where are these wells located, in relation to the boundaries of the pool?

A These wells are in the South end of the Jalmat Pool, essentially the South end of the Jalmat Pool, about in the central portion of the South end of the pool. That, as you know, the South end of that pool is the older area of the pool, and there is quite a bit of water problem generally throughout the South end of that pool.

MR. PAYNE: Much more so than the North end, is not that right?

A Yes, sir, that's my understanding.

MR. NUTTER: Any further questions of Mr. Rainey?

(No response.)

MR. NUTTER: The witness may be excused. Do you have anything further, Mr. Whitworth?

MR. WHITWORTH: No, sir, that's all we have.

MR. NUTTER: Does anyone have anything further for Case 1777? We will take this case under advisement, and recess the hearing until 1:30.



I N D E X

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<u>NUMBER</u>	<u>EXHIBIT</u>	<u>FOR</u> <u>IDENTIFICATION</u>	<u>OFFERED</u>	<u>ACCEPTED</u>
App.#1	Deliverability Test	8	13	13
App.#2-A	1958 " "	9	13	13
App.#2-B	1959 " "	9	13	13

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF BERNALILLO )

I, J. A. TRUJILLO, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in stenotype and reduced to typewritten transcript by me and/or under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal, this, the 21st day of October, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

*Joseph A. Trujillo*  
NOTARY PUBLIC.

My Commission Expires:  
October 5, 1960.

I do hereby certify that the foregoing is a complete and true transcript of the proceedings in the New Mexico Oil Conservation Commission No. 4772, held on 9-30, 1959.

*Arthur*, Examiner  
New Mexico Oil Conservation Commission

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