

J. R. CONE

ROOM 1706 - GREAT PLAINS LIFE BLDG.
LUBBOCK, TEXAS
March 17, 1960

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

Attention: Mr. A. L. Porter, Jr.
Secretary & Director

Dear Mr. Porter:

J. R. Cone is the operator of two dry gas wells located
in the Jalmat Gas Pool, to wit:

J. R. Cone Mobil-Myers No. 1
Unit I, Section 22, T-24-S, R-36-E

Thompson & Cone Pan American-Myers No. 1
Unit H, Section 22, T-24-S, R-36-E

During June, 1959, the afore-mentioned wells were reclass-
ified from marginal to non-marginal status, effective July 1, 1958.
As a result of the reclassification, these two wells were found to
be more than six times overproduced on July 1, 1959, and subsequently
were shut in under the provisions of Orders Nos. R- 520 and R-967.

Both of these wells have severe liquid problems. We believe
that the extended shut-in time which evidently will be required to
bring these wells into balance may lead to permanent damage from water
loading.

Accordingly, we respectfully request that a Hearing be
called so that J. R. Cone may apply for permission to produce the
subject wells at a monthly rate equal to fifty percent of the wells'
current monthly allowables or at a monthly rate equal to fifty per-
cent of the wells' average monthly allowables for the preceding six-
month proration period, whichever is greater.

Yours very truly,

J. R. CONE

By


L. O. Storm, Agent

cc: Conservation Commission,
Hobbs

*sent for hearing
on 2nd. St.
hearing in
April*

NEW MEXICO OIL CONSERVATION COMMISSION
One-point Back Pressure Test for Gas Wells
(Deliverability)

Form C-122-C
4-1-54

Pool Jalmat Formation Yates County Lea
Initial Annual X Special Date of test March 13-20, 1960
Company Thompson & Cone Lease Pan American-Myers Well No. 1
Unit H Sec. 22 Twp. 24-S Rge. 36-E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 14 I.D. 5.012 Set at 3472 Perf. 3120 To 3360
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3358 Perf. 3354 To 3357
Gas Pay: From 3120 To 3360 L 3354 x G 0.659 = GL Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
	AM		AM	24/00	Flange	4.000	1.500	*	*	*
3/16/60	2:00 PM	3/17/60	2:00 PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
* Due to water, well produced by intermittently with free piston. Flow volume integrated by El Paso. Flow time: 6 flows per day, approximately 28.5 minutes per flow.							200.0 *

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3/17/60	AM	3/18/60	AM	24/00		626.2		
	2:00 PM	3/19/60		48/00		633.2		538.2
		3/20/60	2:00 PM		72/00		637.2	

FRICITION CALCULATIONS(if necessary)

P_w measured

SUMMARY

P_c = 637.2 psia

Q = 200.0 MCF/Da.

P_w = 538.2 psia

P_d = 509.8 psia

D = 229.0 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 538.2 P_c 637.2 P_w + P_c 0.8445

$1 - \frac{P_w}{P_c} = 0.1555$ $1 + \frac{P_w}{P_c} = 1.844$ $\left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M = 0.2867$

$.36 + M = 1.256$ $\text{Log } 0.09899$ $x(n) = 0.587$ $= 0.05811 +$

COMPANY Thompson & Cone

Log Q = 2.30103

ADDRESS 1706 Great Plains Life Building, Lubbock, Texas

AGENT and TITLE L. O. Storm, Professional Engineer

Log D = 2.35914

WITNESSED

COMPANY El Paso Natural Gas Company

Antilog = 228.6 = D

REMARKS

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
 EXHIBIT NO. 275
 CASE NO. 1846

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NEW MEXICO OIL CONSERVATION COMMISSION
One-point Back Pressure Test for Gas Wells
(Deliverability)

Form C-122-C
4-1-54

Pool Jalmat Formation Yates County Lea
Initial Annual X Special Date of test March 11-18, 1960
Company J. R. Cone Lease Mobil-Myers Well No. 4
Unit I Sec. 22 Twp. 24-S Rge. 36-E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 15.5 I.D. 4.950 Set at 3400 Perf. 3154 To 3312
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3307 Perf. 3301 To 3307
Gas Pay: From 3154 To 3312 L 3301 x G 0.687 = GL Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
	AM		AM	24/00	Flange	4.000	1.500	*	*	*
3/14/60	1:00 PM	3/15/60	1:00 PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
* Due to water, well produced by intermitting with free piston. Flow volume integrated by El Paso. Flow time: 4 flows per day, approximately 27.5 minutes per flow.							127.0 * <i>3 flows</i>

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3/15/60	AM	3/16/60	AM	24/00		562.2		318.2
	1:00 PM	3/17/60		48/00		564.2		
		3/18/60	1:00 PM	72/00		584.2		

FRICITION CALCULATIONS(if necessary)

P_w measured.

SUMMARY

P_c = 584.2 psia

Q = 127.0 MCF/Da.

P_w = 318.2 psia

P_d = 467.4 psia

D = 67.00 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 318.2 P_c 584.2 P_w + P_c 0.5447

$$1 - \frac{P_w}{P_c} = 0.4553 \quad 1 + \frac{P_w}{P_c} = 1.545 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M = 0.7034$$

$$.36 + M = 0.5118 \quad \text{Log } 9.70910-10 \quad x(n) = 0.961$$

$$= 9.72045-10 +$$

COMPANY J. R. Cone
ADDRESS 1706 Great Plains Life Building, Lubbock, Texas

Log Q = 2.10380

AGENT and TITLE L. O. Storm, Professional Engineer

Log D = 1.82425

WITNESSED

COMPANY El Paso Natural Gas Company

Antilog = 66.72 = D

REMARKS

BEFORE EXAMINER UTZ

OIL CONSERVATION

EXHIBIT NO. 2

CASE NO. 1846-200

CONF. OF II

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CONF. OF II

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OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

May 9, 1960

Mr. Charlie White
Bishop Building
P. O. Box 787
Santa Fe, New Mexico

Dear Mr. White:

On behalf of your client, J. R. Cone, we enclose two copies of Order R-1661 in Case 1946 issued by the Oil Conservation Commission this date.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

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Enclosures: (2)

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Y

RESIDENCE PHONE
SHERWOOD 4-8173

OFFICE PHONE
PORTER 3-7329

J. R. CONE
ROOM 1706 - GREAT PLAINS LIFE BLDG.

LUBBOCK, TEXAS

May 16, 1960

MAY 19 PM 1:31

Case 1946

Case of this
is not of your
information

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

Attention: Mr. E. A. Utz

Dear Mr. Utz:

Further to our conversation at the April 27
Examiner Hearing, this is to confirm that the high pressure
gas volumes reported on our C-115's for the month of March,
1960 on J. R. Cone Mobil-Myers No. 4 and Thompson & Cone
Pan American-Myers No. 1, Jalmat Gas Pool are the same as
the volumes reported to us by the purchaser, El Paso Natural
Gas Company. Specifically, these volumes were: Mobil-Myers
No. 4 - 1831 MCF; Pan American-Myers No. 1 - 2993 MCF.

Your records showed 1831 MCF from Pan American-
Myers No. 1. Thus it would appear that a simple inter-change
of figures has occurred. Furthermore, being personally
familiar with the producing patterns of both the afore-
mentioned wells during March, I consider it very unlikely
that the Mobil-Myers No. 4 produced more gas than did the
Pan American-Myers No. 1.

Please advise if you have any further question
relative this matter.

Yours very truly,

J. R. CONE

By

L. O. Storm
L. O. Storm, Agent