THE ATLANTIC REFINING COMPANY
PEROLEM PRODUCTS

Midland, Tomes

Demestic Producing Department

Address Reply Tos P. C. Box 1610 Midlasd, Toxas

موس

November 17, 1958

New Mexico Oll Conservation Commission P. O. Ess 871 Santa Fe, New Mexico

Res Application for Administrative Approval of an 80-aure None Standard Gas Provotion Units Eurort Gas Fools Comprised of S/2 St/4 of Section 31, T-205, H-35E, Lea County, New Maxies

Application for Administrative Approval of a Non-Standard Loss-tion for a Gas Well, Imment Cas Pool, Located 330° from the South Line and 1652° from the West Line of Section 36, T-205, R-36E, Los County, New Yorks

Centlemans

The Atlantic Refining Company respectfully requests edministrative approval under provisions of Rule 5 (b) of NMCCC Order No. R-510 for a non-standard gas provation unit for its Scale (Federal) No. & Well, located 330° from the south line and 1652° from the west line of Section 36, 7-205, R-36E, Eumont Pool, Lea County, New Morico. The proposed non-standard gas provation unit is to consist of 80-acres comprising the 5/2 5M/h of the above described section. Upon approval of this mon-standard unit, it is requested that the New Morico Cit. Conservation Counts in Administrative Order NSP-206, dated Newsmber 30, 1955, ervering the 5M/h of Section 34, T-205, R-16E, Lea County, New Mexico, be cancelled.

November 17, 1958 New Mexico Oll Conservation Commission Page 2

In addition, The Atlantic Refining Company respectfully requests administrative approval of a non-standard location for its Seale (Federal) No. 4 Well in exception to Rule 2 of NMOCC Order No. R-520.

In support of this application, the following facts are submitteds

- l. The Atlantic Refining Company is the owner and operator of an eil and gas lease known as the Atlantic Seale (Federal) Lease which covers the SW/L of Section 3h, T-20S, R-36E, Lea County, New Mexico.
- 2. The Atlantic Refining Company is the owner and operator of the Atlantic Scale (Federal) No. 4 Well which was drilled to and completed in the Yates and Seven Rivers formations as an oil well in the Eumon's Pool on January 29, 1956.
- 3. The Atlantic Scale (Federal) No. 4 Well was drilled and completed as an oil well in an orthodox location under the terms of Rule 204 (b) of the Commission's Rules and Regulations. This location is 330° from the gouth lime and 1652° from the west line of Section 24, T-205, R-36E, NMPM, Lea County, New Mexico.
- 4. The Atlantic Scale (Foderal) No. 4 Well had a decreasing oil production so that GOR limitations for an oil well were exceeded and the well was reclassified as a gas well. (See attached GOR and Multi-Point Back Pressure Tests).
- 5. A plat is attached hereto showing the proposed 80-acre non-standard gas provation unit, the location of the Atlantic Scale (Federal) No. 4 Well, and the location of offset wells.
- 6. The proposed non-stendard gas provation unit complies with the provisions of Rule $\mathcal G$ (b) of Order R=520 in that
 - (a) it is composed of contiguous quarter-quarter sections, (b) it lies wholly within a single governmental section,
 - (c) the entire unit may reasonably be presumed to be productive of gas,
 - (d) neither its length nor its width expeeds 5280°, and
 - (e) all operators owning interests within the same governmental section as the proposed unit, and all operators owning interests within 1500° of the well to which this unit is proposed to be allocated, have been notified of Atlantic's intent to form the unit by means of a copy of this application sent by registered mails.

November 17, 1958 New Mexico Oil Conservation Commission Page 3

7. Six copies of the New Mexico Oil Conservation Commission's revised Form C-128 are attached in accordance with the New Mexico Oil Conservation Commission Order R-985.

8. The granting of this application for the non-standard gas proration unit and the non-standard gas well location is in the interest of conservation and the protection of correlative rights.

Respectfully submitted,

THE ATLANTIC REFINING COMPANY

P. E. Fletcher, Regional Operations Manager

AFFIDAVIT

On this the 17th day of November 3958, before me appeared $P_{\rm o}$ E. Fletcher, to me personally known to be the person who executed the foregoing instrument and who after being by me duly swown on oath, stated that he is employed by or associated with The Atlantic Refining Company in the capacity of Regional Operations Manager, and that the above statements are true and correct,

IN WITNESS THERETO, I have hereunto set my hand and seal on the day and year first above writtene

> Motery Public In and for Widlend County, Tomas

MAILING LIST

New Mexico Oil Conservation Commission Box 871 Santa Fe, New Mexico

*Cactus Drilling Company 1316 East Alston Hobbs, New Mexico

Williott, Inc. Box 703 Roswell, New Mexico

#Sulf Oil Corporation Box 2167 Hobbs, New Mexico

whmerade Petroleum Corporation Box 2040 Tulsa, Oklahoma

*Charm Oll Company 302 Carper Building Artesia, New Mosico

*Sinclair Oil & Gas Company Box 809 Roswell, New Mexico

elorris R. Antwell Box 1058 Hobbs, New Mexico

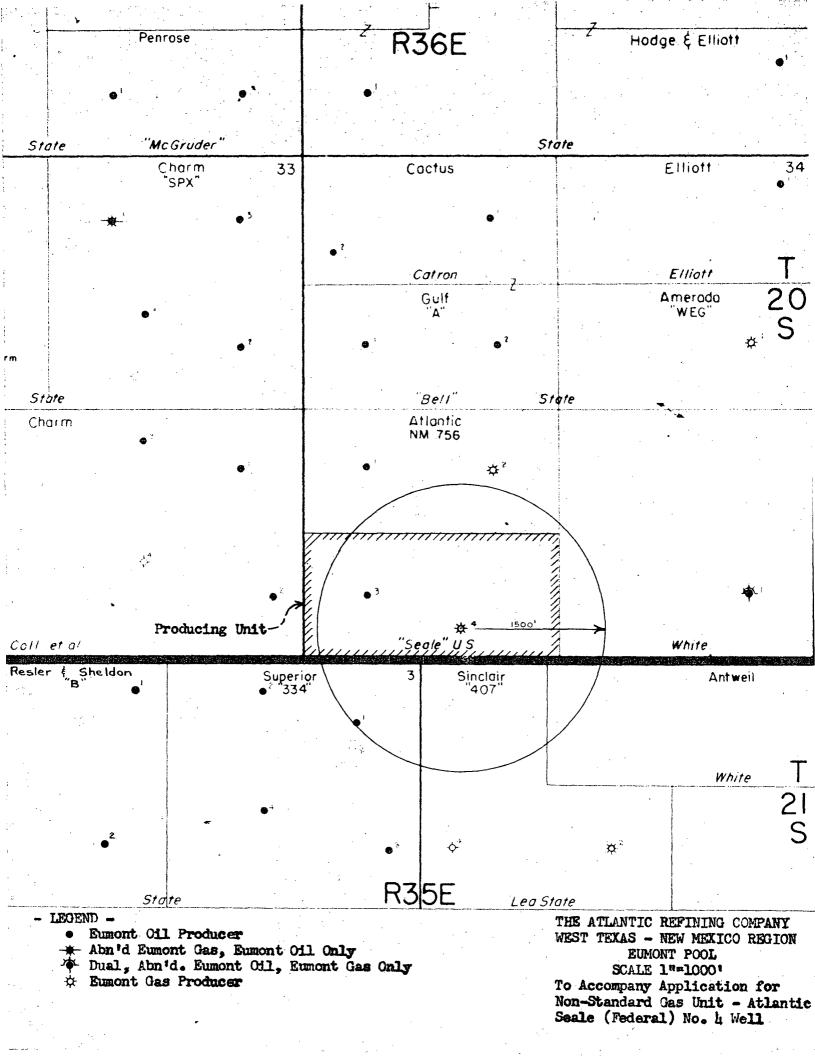
#The Superior Oil Company 218 West Illinois Midland, Texas

*Seat by registered mail with return receipt requestedo

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Certain The Atlantic Retining Commany Lease Seale-Federal No. 021116 A Unit Letter M Section 11 Township 20 Saith Range 15 tast North Centated 130 Feet From South Line, 1509 Feet From Mest Line Country tea G. L. Elevation Dedicated Acreage 12,1 Acres Lancy of Producing Formation tatasterm Flora Pool Gament is the Operator the only Owner' in the dedicated acreage outlined on the plat below? Yes No. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No. If answer is "yes," Type of Consolidation. If the answer to question two is "no," list all the owners and their respective interests the low: Canner Land Description Section B Captur Acres Address Cas PRORATION UNIT So. 28 Ac. No. 15 Acres No. 16 Ac	Section A.		Di	ate <u>July 14,1958</u>
Link bo. 1 unit Letter w Section 14 Township 20 South Range 16 East NMCM Line 2001 17 Letter From South Line 1522 Feet From South Line 2001 17 Letter From South Line 2001 17 Letter From South Line 2001 17 Letter From South Line 2001 18 Lin	Cuerator The Atlantic Refining Comp	any Leas	Seale-Federal No.	063116
Control Producing formation rates-gene Rivers Pool [mont] Is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes No If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No . If answer is "yes," Type of Consolidation. If the answer to question two is "no," list all the owners and their respective interests telow: Owner Land Description Section B Caques Conner Land Description This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. Capture Capture Consolidation agreement or otherwise? Capture Capture Capture Consolidation of Consolida	Mell No. 4 Unit Letter N	Section 34	Township_20	South Range 36 East NMPM
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This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. The Atlantic Refining Company (Representative) P.O. Box 28/9 Del/los, Texas Address This is to certify that the well location shown on the plat in Section B was plotter 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. The Atlantic Refining Company (Representative) P.O. Box 28/9 Del/los, Texas Address This is to certify that the well location shown on the plat in Section B was plotter 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. The Atlantic Refining Company This is to certify that the well location shown on the plat in Section B was plotter 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 Surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief. M. J. Burged, Chief Surveyor The Atlantic Refining Company		^ _		
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and belief. The Atlantic Refining Company (Operator) Representative) P.O. Box 2819 Dellas, Texas Address This is to certify that the well location shown on the plat in Section B 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 11-15-55 W. S. A. OS3//5 - 330' U. S. A. OS3//5 - 330' O 350 660 500 1550 1560 2000 1560 1600 500 500 500 500 500 500 500 500 500	. •			
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NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

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Lease		Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	GOR Cu. Ft. Per Bbl.
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date August 22, 1950	The Atlantic Refining Company
	By Mallin 12 A. Company
	District Superintendent
*	Title

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

Form C-122-C 4-1-54

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REMARKS

This form is to be used for reporting deliverability tests in the designated Dry Gas Pools of Lea County as ordered by New Mexico Oil Conservation Commission Directive dated March 15, 1954, which directive was provided for by Orders R-365-A through R-376-A. For details regarding this test please refer to the above mentioned Directive.

NOMENCLATURE

- Q = Actual flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_d = Deliverability pressure; 80 % of 72 hour individual wellhead shutin pressure (P_c). psia
- P. = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing). psia
- D = Deliverability at Deliverability pressure (P_d) MCF/da. @ 15.025 psia and 60° F.
- p, = Static meter pressure, psia.
- h. Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- Ft = Flowing temperature correction factor.
- F = Supercompressability factor.
- n Slope of back pressure curve.

DELIVERABILITY FORMULA

$$D = Q$$

$$\left[1 - \frac{P_w}{P_c} \left(1 + \frac{P_w}{P_c} \right) \right]$$

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	L Blanch	·		_For	rmation	Zartes	L'ENTER !	ivesu	_County_	Los_	
Init	cial		Annual_	 -		Spec	ial		_Date of	Test_	4640
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	Coeffici	ent		Pre					Compre	ss.	Rate of Flow
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	(24-Hou						t \	Fg	r pv		@ 15.025 psia
1.			22,54	37		Ueltil		U 4 77397			424,67
2.	24,75%		4847	75		0.333		0.97.57.77			
3.	70 / C.S. 70 / C.S.			33 34		0.000		C. 9359			2.36467 2.36.47
4. 5.	7.0 7		den en de la constanta	45049	633	15 1 1 1 2 CM		W 7777		" ——	
	Liquid Hydro		(morto	-s)	The s	ESSURE CA cf/bbl. deg.	alcu ati	Speci		ty Flor	arator Gas wing Fluid
		existing the		·			· · · · · ·		·	·	·
No.	P _w P+ (psia)	$P_{\mathbf{t}}^2$	F _c Q		$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$		Pw Pc
I.		20.2	44		K-77 %		文士		25-22		
2.		474617	J. Private		AVACAU No. 1997			L/eJ/V	47.47.0	4,74	or upopour
3.			30	-		Let				131.4	
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Abso COMI ADDI AGEN WITN	PANY RESS T and TITLE RESSED PANY					MCFPD;	M	llan			
	-		-			REM	ARKS				

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n _ Slope of back pressure curve.

Note: If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_+ .

WAIN OFFICE OCC

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

	DATE.	December	8, 1958
OIL CONSERVATION COMMISSION BOX 871	Re:	Proposed.	NSP
SANTA FE, NEW MEXICO		Proposed	NSL 174
		Proposed	NFC.
		Proposed	DC
Gentlemen:			
I have examined the application dated		······································	
for the Atlantic Refining Co. Seale Fed. #4 Operator Lease and Well No.	34	-20-36 S-T <i>-</i> R	
and my recommendations are as follows:			
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O.KJ.W.R.			
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Yours very truly,			
OIL CONSERVATION CO)id41'SS	TON	