Western Natural Gas Company

823 MIDLAND TOWER BLDG.

Midland, Texas

June 23, 1958

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

Gentlemen:

Western Natural Gas Company respectfully requests a hearing to consider this application for permission to dually complete applicant's Wimberly #2 as an oil-oil dual producer in such a manner that the Fusselman and Drinkard reservoirs will be produced through parallel strings of two inch tubing inside seven inch casing and in support thereof states as follows:

- Western Natural Gas Company's Wimberly #2 is I. located 660 feet from the North line and 1980 feet from the West line of Section 24, T-25-S, R-37-E, Lea County, New Mexico.
- This well has 13 3/8" surface casing set at 544' II. with cement direulated to surface, 9 5/8" intermediate casing set at 2393 t with coment back to 1010', and 7" production casing set at 8235'. Top of cement behind the 7" casing is at 3400'.
- This well is now producing through 2 3/8" OD III. tubing string at 6774' from the Fusselmen formation perforated in the 7" casing at 6736-6756'. A Baker Medel "D" Retainer Production packer is at 6595' set off of wire-line. The 7" cesing was perforated at 5874-5924', opposite the Drinkard some and 2 3/8" OD tubing string is landed at 6069". The Drinkard formation is shut-in.

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> ្សាស្ត្រីការស្ត្រីការស្នាក់ស្នាក់ ក្រែក្រុមស្រាប់ ស្នាត់ ប៉ាក់ នៅខ្ញុំ បីប្រជាជីវិត ខ្លែកប្រើសទ្រាប់ សាស្ត្រី ស្នាស់ ប៉ុន្តែក ខ្លែក ស្រេចប្រើសព្វភិបាល ស្នាក់ ប៉ុន្តែការប្រ ក្រុមប្រើសាសន្តិ៍ ស្នាស់ ប្រែក្រុម ស្នាក់ ស្នាស់ ស្នាស់ ស្នាស់ ប្រែក្រុម ស្នាក់ ស្នាក់ ស្នាក់ ប្រែក្រុម ប្រែក្រុម ស្នាក់ ស្លាក់ ស្នាក់ ស្

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- IV. On June 19, 1958 a packer leakage test was conducted by Coleman Fetroleum Engineering Company of Hobbs, New Mexico. The results indicate that the two producing zones are separated properly. Accompanying this letter of application are properly executed packer leakage forms.
- V. Subject well has been completed and equipped as indicated on the attached schematic diagram.
- VI. The manner and method of dual completing this well is mechanically sound and practical and is in the interest of conservation and the protection of correlative rights.
- VII. The applicant will comply with all rules and regulations of the New Maxico Oil Conservation Commission to maintain separation of production from the two pay sones.
- VIII. A plat is attached showing the location of the well and offset operators.
- IX. By copy of this letter and attachments all offset operators are hereby notified.

Respectfully submitted,

WESTERN NATURAL GAS COMPANY

R. H. McKoy

Division Superintendent

STATE OF TEXAS

CCUNTY OF MIPLAND

On this 23rd day of June, 1958, before me personally appeared R. H. McKoy, to me known to be the person who executed the foregoing letter and states that the foregoing statements are true to the best of his knowledge and belief.

In Witness Whereof, I have set my hand and seal on the day and year first above written.

Hotery Public in and for Midland

County, State of Texas

My Commission Expires June 1, 1959 CLARA JEAN HYATT—NOTARY PUBLIC in and for Midland County, Texas MY COMMISSION EXPIRES JUNE 1, 1959

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YAILING LIST

Oulf Oil Corporation P. O. Box 2167 Hobbs, New Mexico

Anderson-Frichard Oil Corporation P. O. Box 196 Midland, Texas

R. Olsen Oil Company Drawer Z Jal, New Maxico

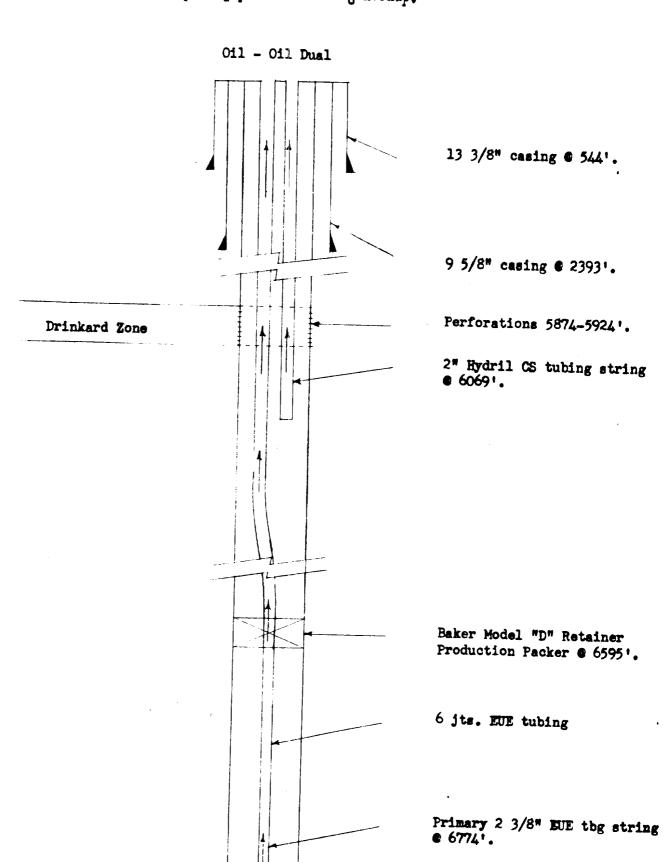
Amerada Fetroleum Corporation P. C. Box 312 Midland, Texas

Tidewater Oil Company F. C. Box 547 Hobbs, New Mexico

Atlantic Refining Company P. O. Box 871 Midland, Texas

_WESTERN NATURAL GAS COMPANY WIMBERLEY #2

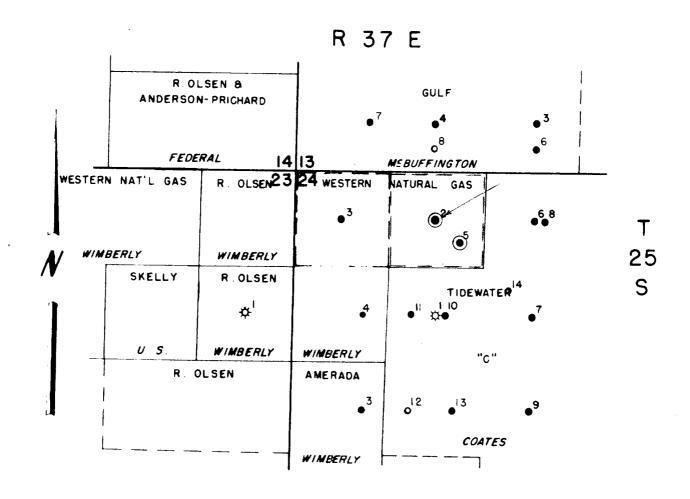
Dual completion showing single-packer, Full-Opening parallel string hookup.



Fusselman Zone

Perforations 6736-67561.

7* Casing set at 82351



LEA COUNTY
NEW MEXICO

PACKER LEAKAGE TEST

Operator WESTERN NATURAL GAS CO. Lease WIMBERLEY Well Tocation: Unit C , S. 24 , T 255, R 3	Pool (I	Jpper Complower Compl	letion) letion)	DRINKARD FUSSELMAN	unty, N. M.
•	-Test Shut				moy, H. M.
<u></u>	-1000 Dilize		mletion	Lower Comple	ation
Shut-in at (hour, date) Pressure stabilized at (hour, date) Length of time required to stabilize (h		. 6:00 AN	<u> (6-16-5 </u> 	B) 6:00 AM Unkno 2 Hr.	<u>(6-16-58)</u>
	w Test No.				
	ompletion	shut-in_	DR I NK		
Stabilized pressure at beginning of tes Maximum pressure during test Minimum pressure during test Pressure at end of test Maximum pressure change during test Oil flow rate during test: 750.72 BOPD Gas flow rate during test: 25.00 MCFP	based on	00 00 00 E 93.84	psi psi psi psi si BO in	Lower Comple 700 cm 700 450 500	ART psi psi psi psi psi psi psi hours.
	D based on -Test Shut		_MCF in		hours.
Shut-in at (hour, date) Pressure stabilized at (hour, date) Length of time required to stabilize (hour)		Upcer Com	(6-16-56 WN	Lower Comple 3 4:45 PM 8 60 AM	(6-19-58)
Flor	w Test No.	2			
Test commenced at (hour, date) 10:00 Completion producing DRINKARD	Completion		FUSSE	Choke size	24/64"
Stabilized pressure at beginning of test Maximum pressure during test. Minimum pressure during test. Pressure at end of test. Maximum pressure change during test. Oil flow rate during test: 563.04 BOPD Gas flow rate during test: 1076.37 MCFPI	based on based on	er Complet 00 GHART 40 00 10 40	ion L psi psi psi psi psi psi MCF in	ower Complet 560 GMAR 560 550 10	ion psi psi psi psi psi hours.
Test performed by COLEMAN PETR. ENGR	. Co.	Title	AGENT		

INSTRUCTIONS (SOUTHEAST NEW MEXICO ONLY)

- 1. At least 24 hours prior to the commencement of this test, the operator shall notify the District Office of the Oil Conservation Commission in writing of the exact time said test is to be commenced.
- 2. The packer leakage test shall commence with both sides of the completion shut-in. Both sides of the completion must be shut-in a sufficient length of time to allow for complete stabilization of both wellhead pressures, and for a minimum of 2 hours thereafter- this minimum of 2 hours shut-in must show on the charts of the pressure recorder and also must appear on the data sheet.
- 3. For Flow Test No. 1, one side of the dual completion shall be produced with the other side shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter, and shall be at a rate of flow approximating the normal rate of flow for the zone being produced.
- 4. Following the completion of flow test No. 1, the well will again be shut-in, and remain so until the wellhead pressures have again become stabilized and for a minimum of 2 hours thereafter.
- 5. Flow Test No. 2 shall be performed with the previously shut-in side of the dual completion flowing and with the flowing side of the completion used in test number 1 remaining shut-in. This test shall be conducted exactly as outlined under Flow Test No. 1, and must be performed even though no leak was indicated by Flow Test No. 1.
- 6. All pressures, throughout the entire test, must be continuously measured and recorded with recording pressure gauges.
- 7. The accuracy of the recording gauges shall be checked at regular intervals throughout the test with a dead weight test gauge, and such readings shall be recorded on the test data sheet provided.
- 8. For any well on which the wellhead pressures will not stabilize in (24) twenty four hours or less, the minimum producing or shut—in time allowed for stabilization shall be (24) twenty-four hours.
- 9. This form must be completed and filed in duplicate with the District Office of the Oil Conservation Commission within 15 days following the completion of the testing, and must be accompanied by:
 - a. all of the charts, or copies thereof, used on the pressure recorders during the test.
 - b. the test data-sheet (s), or copies thereof, required under paragraph 7 above.
 - c. a graph depicting the pressures and their changes, for both sides of the completion over the entire test.
- 10. This packer leakage test shall be performed upon dual completion of any new wells so approved by the Commission. This test shall also be required each year during the annual GOR test for the lowermost oil zone or oil pool so concerned. The Commission may also request packer leakage tests at any time they feel that a new test is desirable.

NEW MEXICO OIL CONSERVATION COMMISSION

PACKER LEAKAGE TEST

OPERATOR			GAS COMPANY
LEASE NAME	WIMBER		WELL NO. No. 2
LOCATION	UNITC	, SEC. 24,	125S, R3/E COUNTY LEA
Time	Krryf	PUSSELMAN PRIMAR	TEST DATA SHEET
1 Title	<u>Pressure</u> (6-16-58)	Pressure	Remarks
	(0-10-30)		
6:00 AM	-	**	BOTH SIDES SHUT IN FOR PACKER LEAKAGE TE
	<u>(6-19-58)</u>	-	
11:45 AM	781 DWT	766 DWT	HOOKED UP DUAL PEN RECORDER AND SET PENS
			GIVE GREATER SEPARATION AND STARTED 2 HOL
			MINIMUM STABILIZED SHUT IN PERIOD.
12:45 PM	781	766	
1:45	781	766	OPENED FUSSELMAN SIDE FOR FLOW TEST
2:45	781	503	STARTED 2 HOUR STABILIZED FLOW PERIOD
3:45	781	503	
4:45	781	503	FINISHED 2 HOUR STABILIZED FLOW PERIOD AN
			SHUT FUSSELMAN SIDE IN FOR BUILD UP
	(6-20-58)		
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