(Form C-102)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE OCC
1957 FEB 7 AM 7:52

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

Notice of Intention to Change Plans		Notice of Intention to Temporarily Abandon Well		Notice of Intention to Drill Deeper	
Notice of Intention to Plug Well		Notice of Intention to Plug Back		Notice of Intention to Set Liner	
Notice of Intention to Squeeze		Notice of Intention to Acidize		Notice of Intention to Shoot (Nitro)	
Notice of Intention to Gun Perforate		Notice of Intention (Other)		Notice of Intention (Other) (Sand Frac)	X

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Midland, Texas (Place) February 7, 1957 (Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the Roy Riddell

The Texas Company (Company or Operator) Well No. 2 in A (Unit)

NE ¼ NE ¼ (40-acre Subdivision) of Sec. 12, T. 21-S, R. 36-E, NMPM, Eumont Gas Pool

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

Total Depth: 3676'
5½ casing set at 3530'

To stimulate production we desire to:

1. Fracture simultaneously down the casing and tubing with 20,000 gallons of refined oil carrying 20,000# sand.
2. Return to production.

Approved ....., 19.....
Except as follows:

The Texas Company
Company or Operator
By .....
Position Asst. Dist. Superintendent
Send Communications regarding well to:
Name The Texas Company
Address Box 1270 - Midland, Texas

Approved
OIL CONSERVATION COMMISSION
By E. J. Fischer
Title

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Eumont Formation Queen County Lea

Initial X Annual Special Date of Test 9-8-56

Company The Texas Company Lease Ray Riddell Well No. 2

Unit A Sec. 12 Twp. 21-S Rge. 36-E Purchaser Permian Basin Pipe Line Co.

Casing 5 1/2 Wt. 14# I.D. 5.012 Set at 3530 Perf. To

Tubing 2 3/8 Wt. 4.7# I.D. 1.995 Set at 3517 Perf. 3513 To 3516

Gas Pay: From 3530 To 3676 L 3513 xG .670 =GL 2354 Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 6-1-55 Packer None Reservoir Temp.

CO_2 = .48% N_2 = 1.07%

OBSERVED DATA

Tested Through (Prover) (~~Choke~~) (~~Meter~~) Type Taps

No.	Flow Data (Prover) (~~Line~~) (~~Size~~)	Flow Data (~~Choke~~) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						559.0		568.7		66
1.	2	.250	524.8		72	524.8		532.2		3
2.	2	.3125	485.5		72	485.5		500.5		3
3.	2	.375	429.7		74	434.4		465.9		3
4.	2	.4375	357.5		70	364.9		435.3		3
5.	4	1.00	469.5	18.2	79	477.3		483.8		24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1.4030		538.0	.9887	.9463	1.054	744
2.	2.1577		498.7	.9887	.9463	1.050	1,057
3.	3.0691		442.9	.9868	.9463	1.043	1,324
4.	4.3997		370.7	.9905	.9463	1.036	1,584
5.	6.375	93.73	482.7	.9822	.9463	1.046	582

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid
F_c $(1-e^{-s})$ P_c 581.9 P_c^2 338.6

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	545.4					297.4	41.1		.91
2.	533.7					263.9	74.7		.88
3.	490.1					229.4	109.1		.82
4.	448.5					201.2	137.4		.77
5.	497.0					247.0	91.6		.85

Absolute Potential: 1,275 MCFPD; n .60

COMPANY THE TEXAS COMPANY
ADDRESS BOX 1270, MIDLAND, TEXAS
AGENT and TITLE L. I. BAKER, DISTRICT GAS MAN
WITNESSED H. E. BARRETT
COMPANY PERMIAN BASIN PIPE LINE COMPANY

REMARKS

ELVIS A. UT
GAS ENGINEER

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 (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_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

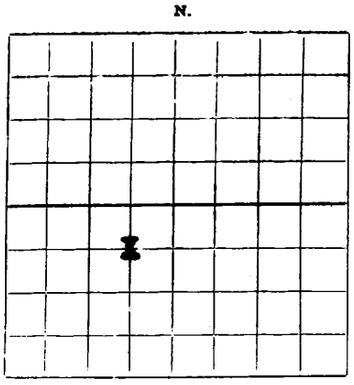
F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = 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_t.



AREA 640 ACRES
LOCATE WELL CORRECTLY

(Revised 7/1/52)
(Form C-105)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

The Texas Company (Company or Operator) Roy Riddell (Lease)

Well No. 2, in NE ¼ of NE ¼, of Sec. 12, T. 21-S, R. 36-E, NMPM.

Eumont Gas Pool, Lea County.

Well is 660 feet from North line and 657 feet from East line of Section 12. If State Land the Oil and Gas Lease No. is --

Drilling Commenced May 13, 19 55. Drilling was Completed June 1, 19 55

Name of Drilling Contractor Makin Drilling Company

Address Box 1628, Hobbs, New Mexico

Elevation above sea level at Top of Tubing Head 3501' (DF) The information given is to be kept confidential until --, 19

OIL SANDS OR ZONES

No. 1, from 3530' to 3676' No. 4, from ... to ...

No. 2, from ... to ... No. 5, from ... to ...

No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

Drilled with Rotary, No water sands tested.

No. 1, from ... to ... feet. ...

No. 2, from ... to ... feet. ...

No. 3, from ... to ... feet. ...

No. 4, from ... to ... feet. ...

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8"	24#	NEW	1328	HOWCO			
5½"	14#	NEW	3521	HOWCO			

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
11"	8-5/8"	1335	800	Halliburton		
7-7/8"	5½"	3530	500	Halliburton		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Open hole from 3530'-3676' treated with 500 gallons mud acid and sand-frac with 10,000 gallons Lease Crude with 1 lb of sand per gallon.

Result of Production Stimulation On official test ended 6AM 6-2-55 Well flowed 3,421,000 cu. ft./gas per day through a 1" choke.

Depth Cleaned Out 3676'

RECORD OF DRILL-STEM AND SPECIAL TEST

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0 feet to 3676 feet, and from ____ feet to ____ feet.

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet.

PRODUCTION

Put to Producing June 1, 1955

OIL WELL: The production during the first 24 hours was No barrels of liquid of which ____ % was was oil; ____ % was emulsion; ____ % water; and ____ % was sediment. A.P.I. Gravity ____

GAS WELL: The production during the first 24 hours was 3421 M.C.F. plus 0 barrels of liquid Hydrocarbon. Shut in Pressure 845 lbs.

Length of Time Shut in 24 hrs.

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico			
T. Anhy		T. Devonian		T. Ojo Alamo	
T. Salt	1355	T. Silurian		T. Kirtland-Fruitland	
B. Salt	2527	T. Montoya		T. Farmington	
T. Yates		T. Simpson		T. Pictured Cliffs	
T. 7 Rivers		T. McKee		T. Menefee	
T. Queen		T. Ellenburger		T. Point Lookout	
T. Grayburg		T. Gr. Wash		T. Mancos	
T. San Andres		T. Granite		T. Dakota	
T. Glorieta		T.		T. Morrison	
T. Drinkard		T.		T. Penn	
T. Tubbs		T.		T.	
T. Abo		T.		T.	
T. Penn		T.		T.	
T. Miss		T.		T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	96	96	Surface				Deviation Record
96	260	164	Lime & Sand				300'-1/2°
260	1160	900	Red Beds				905'-1°
1160	1322	162	Anhy & Red Beds				1920'-3/4°
1322	1335	13	Anhy				2238'-3/4°
1335	1920	585	Red Beds & Anhy				2500'-1-3/4°
1920	2255	335	Anhy & Salt				2607'-1-3/4°
2255	2699	444	Shale, Anhy & Gyp				2665'-1-3/4°
2699	2965	266	Anhy & Lime				2856'-1-3/4°
2965	3077	112	Lime & Shale				3015'-1-3/4°
3077	3450	373	Anhy & Lime				3115'-1-7/8°
3450	3514	64	Sand & Shale				3224'-1-3/4°
3514	3530	16	Anhy, Lime & Shale				3405'-1-3/4°
3530	3557	27	Sand & Shale				
3557	3632	75	Lime & Sand				
3632	3676	44	Sand & Shale				
	3676		Total Depth				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

(Date)

Company or Operator The Texas Company Address Box 1270, Midland, Texas

Name Otto Gabaness Position or Title Asst. Dist. Supt.