

3-NMCGG  
2-Kern  
1-Southern  
1-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122  
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County Rio Arriba

Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 10-7-59

Company Kern County Land Co. Lease McKenzie Federal Well No. 1

Unit A M Sec. 25 Twp. 25N Rge. 6W Purchaser Southern Union

Casing 5 1/2" Wt. 15.5 I.D. \_\_\_\_\_ Set at 7140 Perf. 7008 To 6907

Spang 2-1/16 Wt. 3.40 I.D. 1.751 Set at 6027

Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6885 Perf. Open ended To \_\_\_\_\_

Gas Pay: From 7008 To 6907 L 2-3/8-762 xG 0.680 -GL 518 Bar.Press. \_\_\_\_\_

Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Dual - Gas - Oil

Date of Completion: 9-25-59 Packer Baker Model "D" Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) \_\_\_\_\_ Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						2310		1637	Gallup	
2.										
3.		3/4"	157		98°			1640	Gallup	3 hrs
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12.3650		109	1.0019	.9393	1.024	2904
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
 Specific Gravity Separator Gas \_\_\_\_\_  
 Specific Gravity Flowing Fluid \_\_\_\_\_  
 P<sub>c</sub> 2322 P<sub>c</sub><sup>2</sup> 5,391.684  
 P<sub>c</sub> 2-3/8 P<sub>c</sub><sup>2</sup> 9.402 0.261  
0.082

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.									
2.	169	28,561	18,841	353	28.9				
3.									
4.			26,453	700	182.7	211.6	5180		1.0410
5.									

Absolute Potential: 2066 MCFPD; n .75 1.031

COMPANY Kern County Land Co.

ADDRESS 301 Kerber Bldg., Albuquerque, N.M.

AGENT and TITLE T. A. Dugan, Consulting Engineer

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

REMARKS



