

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

F. 6 11

Pool Indian Basin		Formation Cisco Canyon		County Eddy	
Initial X	Annual		Special	Date of Test 10-7-65	
Company Standard Oil Company of Texas		Lease Bogle Flats Unit		Well No. 5	
Unit	Sec. 16	Twp. 22-S	Range 23-E	Purchaser None	
Casing 7"	Wt. 26	I.D. 6.276	Set at 7480	Perf. 7225	To 7292
Tubing 2"	Wt. 4.7	I.D. 1.995	Set at 7068	Perf. Open Ended	To OCT 2 1965
Gas Pay:	From 7225	To 7292	L 7068	G 7258	GL 13.2
Producing Through:		Casing X	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion 10-1-65		Packer Otis WA @ 7055'		Reservoir Temp. 132°F	

OBSERVED DATA

Tested Through:					Type of Taps Flange	
Prover ☐ Choke ☐ Meter ☐						
FLOW DATA					TUBING DATA	
No.	(Packer) (Line) Size	(Casing) (Orifice) Size	Press. psig	Diff. in	Temp. °F.	DURATION OF FLOW HR.
SI						
1.	4.026	1.75	7.4	7.0	76	1.0
2.	4.026	1.75	7.6	7.1	78	1.0
3.	4.026	1.75	8.4	7.95	74	1.0
4.	4.026	1.75	9.1	8.15	74	1.0
5.			Square Root Chart			

1500# x 100" Meter

FLOW CALCULATIONS

No.	Coefficient (24 Hour) *	$\sqrt{h_w P_f}$	Pressure psig	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF PD @ 15.025 psia
1.	74.633	51.800	645	.9850	.9829	1.056	3,952
2.	74.633	53.960	680	.9831	.9829	1.059	4,121
3.	74.633	66.780	850	.9868	.9829	1.080	5,221
4.	74.633	74.165	980	.9868	.9829	1.089	5,847
5.							

*Includes 3.873 Meter Factor

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio	115,586 cf/bbl.	Specific Gravity Separator Gas	.621
Gravity of Liquid Hydrocarbons	57.6 deg.	Specific Gravity Flowing Fluid	8,394
F_c	(1 - e^{-S})	P_c	2897.2

Pressure Recorded with an Amerada RPG-3 Instrument, Extrapolated to "L"

No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1 - e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1.	2830.2					8,010	384		97.7
2.	2828.2					7,999	395		97.6
3.	2799.2					7,836	558		96.6
4.	2782.2					7,741	653		96.0
5.									

ABSOLUTE POTENTIAL: **38,400** MCFPD; n **.737**

COMPANY **West Texas Engineering Service, Inc.** WITNESSED

ADDRESS **P. O. Box 4456 - Midland, Texas** COMPANY

AGENT AND TITLE **R. W. Harrington**
Field Petroleum Engineer

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