

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

Form C-122
Revised 12-1-55

Pool Indian Basin		Formation Cisco			County Eddy	
Initial X		Annual		Special		Date of Test 7-16-65
Company Standard Oil Company of Texas			Lease Bogle Flats Unit			Well No. 3
Unit A	Sec. 9	Twp. 22S	Range 23E	Purchaser None		
Casing 5 1/2	Wt. 15.5	I.D. 4.950	Set at 7510	Perf. 6991	To 7133	
Tubing 2	Wt. 4.7	I.D. 1.995	Set at 6924	Perf. Open Ended		To
Gas Pay:	From 6991	To 7133	L 7062	G	GL	Bar. Press. 13.2
Producing Through:			Casing X	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion 7-9-65		Packer Baker "D" @ 6910'			Reservoir Temp. 132°F @ 6920'	

OBSERVED DATA **AUG 1 1965**

Tested Through: Prover Choke Meter Type of Taps **Flange**

FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	XXXX (Line) Size	XXXX (Orifice) Size	Press. XXXX	Diff. XX	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.
SI						2339		Packer	24
1.	4.026	2.00	6.0	6.2	90	2243	76		1.0
2.	4.026	2.00	6.73	7.45	83	2197	74		1.0
3.	4.026	2.00	7.43	8.0	88	2110	76		1.0
4.	4.026	2.00	7.74	7.85	87	2088	76		1.0
5.			Sq. Rt. Chart						

1500# x 100" Meter

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	XXXXXX Meter Factor	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	25.58	37.200	3.873	.9723	.9442	1.054	3,566
2.	25.58	50.138	3.873	.9786	.9442	1.088	4,994
3.	25.58	59.440	3.873	.9741	.9442	1.088	5,893
4.	25.58	60,759	3.873	.9750	.9442	1.102	6,107
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 122,381 cf/bbl. Specific Gravity Separator Gas .673

Gravity of Liquid Hydrocarbons 58.3 deg. Specific Gravity Flowing Fluid _____

F_c _____ ($1 - e^{-S}$) P_c 2881.2 P_w^2 8,301

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 $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.	2823.2					7970	331		97.9
2.	2791.2					7791	510		96.8
3.	2753.2					7580	721		95.5
4.	2730.2					7454	847		94.7
5.									

ABSOLUTE POTENTIAL: 29,000 MCFPD; n .649

COMPANY WEST TEXAS ENGINEERING SERVICE, INC. WITNESSED _____
 ADDRESS P. O. Box 4456 - Midland, Texas COMPANY _____
 AGENT AND TITLE R. W. Harrington
Field Petroleum Engineer

CHANGE OF OPERATOR, EFFECTIVE JULY 1, 1965,
 FROM STANDARD OIL COMPANY OF TEXAS, A
 DIVISION OF CHELSEA OIL COMPANY,
 TO STANDARD OIL COMPANY OF TEXAS, A DIVISION
 OF CHELSEA OIL COMPANY.