

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool CISCO CANYON Formation WOLFCAMP County EDDY

Initial _____ Annual _____ Special X Date of Test NOV. 6, 1964

Company BELL PETROLEUM COMPANY Lease GULF FEDERAL Well No. 1

Unit J Sec. 17 Twp. 17 SOUTH Rge. 27 EAST Purchaser _____

Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 7609 Perf. 7520 To 7536

Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at 7486 Perf. _____ To _____

Gas Pay: From 7520 To 7536 L 7486 xG 0.752 -GL 5629 Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well _____

Date of Completion: OCT. 23, 1964 Packer NONE Reservoir Temp. 225° F

OBSERVED DATA

Tested Through (XXXXX) (Choke) (XXXXX) 6" THORNHILL CRAVER CHOKES Type Taps _____

WERE USED

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI			1355			1355	70	1355	70	81.72
1.		5/32	1205			1205	74	1210	72	4
2.		3/16	1162			1162	75	1173	72	4
3.		1/8	1035			1035	78	1066	72	4
4.		9/32	905			905	78	944	72	4
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	0.5133		1218.2	0.9868	0.8932	1.179	650
2.	0.7425		1175.2	0.9859	0.8932	1.167	897
3.	1.3309		1048.2	0.9831	0.8932	1.146	1404
4.	1.6907		918.2	0.9831	0.8932	1.125	1534
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio DRY GAS cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c 957.2 (1-e^{-s}) 0.324

Specific Gravity Separator Gas 0.752

Specific Gravity Flowing Fluid 0.752

P_c 1368.2 P_c 1872

No.	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	P _w /P _c
1.	1223.2					1496	376		0.898
2.	1186.2					1407	465		0.869
3.	1079.2					1165	707		0.790
4.	957.2					916	956		0.697
5.									

Absolute Potential: _____ MCFPD; n _____

COMPANY JOHN WEST ENGINEERING COMPANY

ADDRESS 412 NORTH DAL PASO, HOBBS, NEW MEXICO 88240

AGENT and TITLE R. E. JACOBS, GAS ENGINEER

WITNESSED JOHN KELLY

COMPANY BELL PETROLEUM COMPANY

RECEIVED

JAN 18 1965

G. G. G.

ARTESIA, OFFICE

REMARKS

THERE WERE NO THREE POINTS OF THESE FOUR POINTS THAT FELL ON A STRAIGHT LINE, THEREFORE A ONE POINT 24 HOUR TEST WAS PERFORMED. RESULTS OF THE ONE POINT TEST ARE SUBMITTED ON A SEPARATE FORM.

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