NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 5-4-71	
Company: Perry R. Bass ✓	Connection: POTASH CO. of AMR. (High Pr.) PHILLIPS PET. CO. (Low Pressure)		
Pool: Undesignated	Formation: Morrow Sand		Unit: Big Eddy
Completed: 5-3-71	Total Depth: 14,208'	Plug Back TD: 12,465'	Elevation: 3,549' KB
Csg. Size: 5½" Wt: J-55/17 N-80/20# I.D.: 4.892 4.778 Set At: 14,080'	Perforations: From 12,656-668' 12,862-870' 12,940-948'		Farm Name: Big Eddy Unit Well No.: 7
Tbg. Size: 2 3/8" Wt: 4.7 I.D.: 1.995 Set At: 12,620'			Unit: 19 Sec.: Twp.: 20-S Rge.: 31-E
Type Well: Single Bradenhead G.G. or G.O. Multiple	Packer Set At: 12,613-20'		County: Eddy
Producing Thru: 2 3/8" tbg.	Reservoir Temp. °F: 194° @ 12,820	Mean Annual Temp. °F: 60°	Baro. Press. - P_a: 13.2 psia
			State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,820	12,820	0.632					4"	Flange

NO	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	4.026					3905	Not	Packer	Not	
1.	4	1⅛	540	52	53	2431	Meas.	"	Meas.	4 hrs.
2.	4	1⅛	540	59	54	2087	"	"	"	4 hrs.
3.	4	1⅛	540	68	53	1808	"	"	"	4 hrs.
4.	4	1⅛	550	73	49	1588	"	"	"	4 hrs.
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.84	169.60	553.2	1.007	1.258	1.195	2,783
2	"	180.66	553.2	1.006	"	1.191	2,952
3	"	193.95	553.2	1.007	"	1.187	3,161
4	"	202.75	563.2	1.011	"	1.179	3,296
5							

NO	P_t	Temp. °R	T_r	Z
1	3.63	513	1.39	0.700
2	3.11	514	1.40	0.705
3	2.70	513	1.39	0.710
4	2.37	509	1.38	0.720
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 54.3 Deg.
Specific Gravity Separator Gas 0.632 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 3,327.2 P_c^2 28,379

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		3,565.2	12,711	15,668
2		3,134.2	9,823	18,556
3		2,768.2	7,663	20,716
4		2,472.2	6,112	22,267
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.274$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.153$

Absolute Open Flow 3,800 Mcfd @ 15.025 Angle of Slope θ 59.8° Slope, n 0.581

Remarks: Bottom hole pressures measured by Amerada pressure bomb at 12,820 (-9271) for P_c and P_w

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Perry R. Bass Repr's.	Grover L. Worley	