

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS RECEIVED

Form C-122
Revised 9-1-65

FEB 28 1983

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-15-83		O.C.D.	
Company Perry R. Bass		Formation Air		ARTESIA, OFFICE	
Well Widcat		Formation Wolfcamp		Unit C	
Completion Date 2-15-83		Total Depth 15700		Poker Lake UNIT	
Csg. Size 7-5/8"		Set At 14725		Well No. 52	
Tbg. Size 2-3/8"		Set At 12390		Unit Sec. Twp. Rge. C 33 25S 31E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				County Eddy	
Producing Thru TBG.		Reservoir Temp. °F 199 @ 12465		State N.M.	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Meter Run 4"	
L 12465		H 12465		Flg. Flg.	
G _g .6779		% CO ₂ .285		% H ₂ S 1.227	
Prover		Meter Run		Flg.	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	4 x 1.000			600	5.0	62	5880				72hrs
2.	4 x 1.000			600	12.0	94	5270				1hr
3.	4 x 1.000			600	15.0	94	4960				1hr
4.	4 x 1.000			600	29.0	84	4650				1hr
5.	4 x 1.000			600	27.0	68	4185				1hr
							2880				4hrs

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, Mcd
1	4.753	55.37	613.2	.9981	1.214	1.071	342
2	4.753	85.78	613.2	.9688	1.214	1.057	507
3	4.753	95.91	613.2	.9688	1.214	1.057	567
4	4.753	133.35	613.2	.9777	1.214	1.062	799
5	4.753	128.67	613.2	.9924	1.214	1.070	788

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.92	522	1.36	.871	58.2 @ 60	.6779	.996	669	669	385
2	.92	554	1.44	.895						
3	.92	554	1.44	.895						
4	.92	544	1.41	.887						
5	.92	528	1.37	.874						

$\frac{P_c^2}{P_c^2 - P_w^2} = 2.149$				$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.985$			
$\frac{P_c^2}{P_c^2 - P_w^2} = 1.586$				$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.586$			

NO.	BHP	P _w	P _c	P _c - P _w
1	7485.2	5334.4	28455.5	6274.3
2	7124.2	4998.0	24980.5	9749.3
3	6874.2	4766.9	22723.5	12006.3
4	6364.2	4309.6	18572.4	16157.4
5	5034.2	3107.7	9657.6	25072.2

8234.2 S.I.P.		Angle of Slope ° 48.25		Slope, n .896	
Absolute Gr. Flow 1.586		Mcd @ 15,025			

Remarks: **Produced 27 BBLs of Oil during test**

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Davis Services, Inc.	Rick Pagan	