

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

Form C-122
Revised 9-1-65

SF
File
122

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-6-79		SEP 2 1979	
Company Bass Enterprises Prod. Co.						Connection None		O. C. T. ARTEBIA, DR. LOG	
Pool 7 1/2 in. Gas Lock						Formation Morrow		Unit	
Completion Date 9-6-79		Total Depth 11,350		Plug Back TD 11,310		Elevation GL 3384.4		Farm or Lease Name Merchant State	
Log. Size 5 1/2	Wt. 15.5	d	Set At 11,350	Perforations: From 11,046 To 11,137		Well No. 1			
Trq. Size 2 3/8	Wt. 4.7	d	Set At 10,940	Perforations: From To		Unit H	Soc. 1	Twp. 19S	Rge. 28E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,940		County Eddy	
Producing Thru Tubing		Reservoir Temp. *F 193 @ 11,092		Mean Annual Temp. *F 68		Baro. Press. - P _g 13.2		State New Mexico	
L	H	Gg .6289	% CO ₂ None	% N ₂ None	% H ₂ S None	Prover None	Meter Run 4026	Taps Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.		Temp. *F
SI							3079				
1.	4.026		.750	320	5.5	105	2859	73			60 Min.
2.	4.026		.750	290	11.8	113	2796	74			60 Min.
3.	4.026		.750	300	20.0	119	2658	74			60 Min.
4.	4.026		.750	490	27.0	119	2422	75			60 Min.
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. Compens. Factor, Fpv	Rate of Flow Q, Mcfd
1	2.661	42.81	333.2	.9594	1.261	1.027	142
2	2.661	59.81	303.2	.9526	1.261	1.024	196
3	2.661	79.15	313.2	.9477	1.261	1.020	257
4	2.661	116.56	503.2	.9477	1.261	1.030	382
5							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.50	565	1.53	.949	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.45	573	1.55	.954	Specific Gravity Separator Gas .6289
3	.47	579	1.57	.962	Specific Gravity Flowing Fluid _____
4	.75	579	1.57	.942	Critical Pressure 670 P.S.I.A.
5					Critical Temperature 368 R

P _c 4219.2 P _c ² 17802			
NO.	P _t ²	P _w	P _w ²
1		3945.2	15565
2		3842.2	14763
3		3634.2	13207
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.650$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.499$

ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 955$

Absolute Open Flow 955 Mcfd @ 15.025		Angle of Slope 47	Slope, n .940
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Remarks: P_w Substituted for P_t measured with Amerada Instrument No. 35745 - 0-6300#
Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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