

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

C/Sr
FILE
Form C-122
Revised 9-1-66

Type Test ☐ Initial ☐ Annual ☐ Special					Test Date 6-22-87		JUL 27 '88	
Company Meridian Oil			Connection Phillips			O. C. D. ARTESIA, OFFICE		
Pool Benson Strawn Gas			Formation Benson Strawn			Unit C		
Completion Date 1-24-87		Total Depth 11,250		Plug Back TD 11,200		Elevation 3465 KB		Farm or Lease Name Benson 3 Fed.
Csg. Size 5 1/2	Wt. 4.7	d 4.892	Set At 11,250	Perforations: From 10,888 To 10,902		Well No. 1		
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10,804	Perforations: From Open To End		Unit Sec. Twp. Rye. 3, 19S 30E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,804		County Eddy		
Producing Thru TBG		Reservoir Temp. °F 182 @ 10,804		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State N.M.
L 10,804	H 10,804	G _g .750	% CO ₂ .38	% N ₂ 1.80	% H ₂ S	Prover	Meter Run 6,025	Taps Flg

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.	
SI							1800			
1.	6 x	3.00		28	33.1	60	550			1 hr
2.	6 x	3.00		27	27	70	630			45 min
3.	6 x	3.00		25	22.6	70	743			45 min
4.	6 x	3.00		23	16.8	72	878			45 min
5.										45 min

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	44.51	36.93	41.2	1.00	1.155	Nil.	1,899
2	44.51	32.95	40.2	.9905	1.155	Nil	1,678
3	44.51	29.38	38.2	.9905	1.155	Nil	1,496
4	44.51	24.66	36.2	.9887	1.155	Nil	1,253
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 6.286 Mcf/bbl.
1.	.06	520	1.27	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ 48.5 at 60 Deg.
2.	.06	530	1.30	Nil	Specific Gravity Separator Gas _____ .750
3.	.06	530	1.30	Nil	Specific Gravity Flowing Fluid _____ X X X X X
4.	.05	532	1.30	Nil	Critical Pressure _____ 664 P.S.I.A.
5.					Critical Temperature _____ 408 R

P _c 1813.2	P _c ² 3287.7	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.107$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.107$
NO	P _t ²	P _w	P _w ²
1	317.2	563.2	317.2
2	413.7	643.2	413.7
3	571.8	756.2	571.8
4	794.2	891.2	794.2
5			

Absolute Open Flow _____ 2,102 Mcfd @ 15.025		Angle of Slope @ _____ 45	Slope, n _____ 1.00
Remarks: No water made during test, 34.6 Bbls of condensate, point alignment too flat, a slope of 45° was drawn through high rate of flow. Test was reversed due to large amount of fluid. All of the above rates were stabilized rates.			
Approved By Commission:	Conducted By: Reggie Reston	Calculated By: Reggie Reston	Checked By: Reggie Reston