NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AI ONE POINT BACK PRESSURE TES FOR GAS WELL 122

Form C-122
Revised 9-1-65

RECEIVED
APR 27 1981
O. C. D.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-10-81	
Company: Mesa Petroleum Co.		Connection: Unconnected			
Pool: ~~Undesignated~~ Wildcat Abo		Formation: Abo		Unit	
Completion Date: 4-10-81	Total Depth: ~~3500'~~ 3502		Plug Back TD: 3334'	Elevation: 3934'	Farm or Lease Name: Ned State
Csg. Size: 4 1/2 / Wt.: 10.5# / d / Set At: 3453			Perforations: From 3123 To 3220		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d / Set At: 3154			Perforations: From Open Ended To		Unit: K / Sec.: 5 / Twp.: 9S / Rge.: 23E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 95° @ 3500'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3154	3154	.65		4		2" Orifice Well Tester		

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	2" Orifice					740		750		67 hr.
1.	Well	3/4"	5		80	725	80	730		3/4 hr.
2.	Tester	3/4"	16		80	690	80	700		1/2 hr.
3.		3/4"	30		80	640	80	645		1/2 hr.
4.		3/4"	42		80	585	80	590		1/2 hr.
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	164	2" orifice well tester		.9813	.9608		155
2.	325			.9813	.9608		306
3.	521			.9813	.9608		491
4.	665			.9813	.9608		627
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

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

P_c 750 P_c^2 563

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		730	533	30
2		700	490	73
3		645	416	147
4		590	348	215
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6186$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9807$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,240$

Absolute Open Flow 1,240 Mcfd @ 15.025 | Angle of Slope θ 54.6° | Slope, n .71

Remarks:

Approved By Commission:	Conducted By:	Calculated By: EAB	Checked By:
	James Craig	F. L. Ruttross, Jr.	