

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

Form C-122
Revised 9-1-65

RECEIVED

*Copy to SF
C-122*

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-19-73		SEP 28 1973	
Company Mesa Petroleum Co.		Connection None		O. C. C.	
Pool 2 Chandelera area		Formation Atoka		Unit ARTESIA, OFFICE	
Completion Date 9-17-73		Total Depth 12130		Plug Back TD 11511	
Elevation 3167 ft.		Farm or Lease Name Reddy		Well No. GOM 1	
Csg. Size 5 1/2	Wt. 17	Set At 11,994	Perforations: From 10,791 To 10,876	Unk. Sec. Twp. Rye.	
Tub. Size 2 7/8	Wt. 6.5	Set At 10,721	Perforations: From Open To	J 8 23 27	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple				County Eddy	
Producing Thru 10,721		Reservoir Temp. °F 181		State New Mexico	
Mean Annual Temp. °F 10,724		Baro. Press. - P _a 13.2		Meter Run 4"	
% CO ₂		% N ₂		Taps Flg.	
% H ₂ S		Prover			

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
1.	4	x 2		660	8	72	4205	84			31 hr.
2.	4	x 2		660	24.5	56	3760	83			1 hr.
3.	4	x 2		665	41	50	3351	83			1 hr.
4.	4	x 2		665	63	45	2753	82			1 hr.

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, F _{pv}	Rate of Flow Q, Mcfd
1.	19.81	73.39	673.2	.9887	1.294	1.054	1.960
2.	19.81	128.43	673.2	1.004	1.294	1.059	3,500
3.	19.81	166.75	678.2	1.010	1.294	1.062	4,585
4.	19.81	206.70	678.2	1.015	1.294	1.064	5,722

NO.	P _t	Temp. °R	T _f	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.	1.00	532	1.50	.901	328.5	51.5 @ 600		XXXXXXX	672	354
2.	1.00	516	1.46	.892				XXXXXXX	671	358
3.	1.01	510	1.44	.886				XXXXXXX		
4.	1.01	505	1.43	.883						

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1.	4220.7	17814.3	3402.8		1.607	1.430
2.	3796.6	14414.2	6802.9			
3.	3400.8	11565.4	9651.7			
4.	2831.6	8018.0	13199.1			

ACF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 8.182$

Absolute Open Flow	8.182	Mcf @ 15.025	Angle of Slope	53°	Slope, n	.754
--------------------	-------	--------------	----------------	-----	----------	------

Remarks: Well made total of 2 Bbls. of Distillate, No. water was made.

Approved By Commission:	Conducted By: James Archer of Mesa	Calculated By: Reggie Reston	Checked By:
-------------------------	---------------------------------------	---------------------------------	-------------