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C-122

Form C-122
Revised 9-1-65

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

RECEIVED
NOV 12 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [XX] Initial [ ] Annual [ ] Special					Test Date: 10-30-75			
Company: Mobil Oil Corporation				Connection: None				
Pool: South Carlsbad				Formation: Morrow			Unit	
Completion Date: 10-7-75 (Tree Inst)		Total Depth: 12,250		Plug Back TD: 12,204		Elevation: 3174 GL	Farm or Lease Name: State "SS"	
Csg. Size: 5½" L	Wt.: 17.0	d: 4.892	Set At: 12,250	Perforations: From 11,658 To 12,082			Well No.: 2	
Tbg. Size: 2-3/8"	Wt.: 4.7	d: 1.995	Set At: 11,630	Perforations: From OE To			Unit: K Sec.: 20 Twp.: 23S Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: 11,630			County: Eddy	
Producing Thru: Tubing		Reservoir Temp. °F: 184 @ 12,250		Mean Annual Temp. °F: 60		Baro. Press. – P_a: 13.2	State: New Mexico	
L: 11,630	H: 11,630	Gg: 0.60	% CO_2: -	% N_2: -	% H_2S: -	Prover: -	Meter Run: 4"	Taps: Flange

	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					3599				92.5 hrs
1.	4" x 0.750"	501	7	80	501	60			24 hrs
2.									
3.									
4.									
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	2.662	59.99	514.2	0.9813	1.291	1.039	210
2.							
3.							
4.							
5.							

NO.	P_t	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 _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

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

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

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: Unable to four-point well. A 24 hour stabilized flow is submitted in lieu of four-point.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M. W. Brinkmeyer	M. W. Brinkmeyer	J. C. Gordon, Jr.