NEW M CO OIL CONSERVATION COMMSSIO

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FO.. GAS WELL

Form C-122
Revised 9-1-65

C/SF C-122

RECEIVED
OCT 13 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special	Test Date: 9-29-81		
Company: Mesa Petroleum Co.	Connection: UNCONNECTED	Unit:	
Pool: UNDESIGNATED ABO	Formation: ABO		
Completion Date: 9-29-81	Total Depth: 4200'	Plug Back TD: 4072'	Elevation: 4120'
Farm or Lease Name: JESS FEDERAL			
Csg. Size: 4 1/2" Wt.: 10.5# d: Set At: 4169'	Perforations: From 3876' To 3971'	Well No.: 2	
Tbg. Size: 2 3/8" Wt.: 4.7# d: Set At: 3782'	Perforations: From OPEN ENDED To	Unit: O Sec.: 6 Twp.: 6S Rge.: 25E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE	County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 100@ 4200'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: NEW MEXICO			
L: 3782 H: 3782	Gg: .65	% CO_2: 1	% N_2: 1
% H_2S:	Prover: 2" ORIFICE WELL TESTER	Meter Run:	Taps:

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							850		850		72 HR SI
1.	2" ORIFICE		1"	6	-	42	780	62	785		1 HR
2.	WELL		1"	16	-	50	670	68	680		1 HR
3.	TESTER		1"	24	-	58	500	74	515		1 HR
4.			1"	25	-	68	360	78	375		1 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	331	2" ORIFICE		1.0178	.9608		324
2.	592	WELL		1.0098	.9608		574
3.	819	TESTER		1.0019	.9608		788
4.	841			.9924	.9608		802
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 863 P_c^2 745

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		798	637	108
2		693	480	265
3		528	279	466
4		388	151	594
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5987$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3066$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1000$

Absolute Open Flow 1000 Mcfd @ 15.025 Angle of Slope θ 60.3° Slope, n .57

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JAMES CRAIG	E. L. BUTTROSS, JR.	