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N MEXICO OIL CONSERVATION COMM ON

Form C-122
Revised 9-1-65

C-122

MULTIPOINT AND ONE POINT BACK PRESSURE TES, FOR GAS WELL

NM-18727

RECEIVED
APR 9 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-24-75	
Company: JAKE L. HAMON		Connection			
Pool: BURTON FLATS		Formation: UPPER MORROW		Unit	
Completion Date: 2-14-75	Total Depth: 11700'		Plug Back TD: 11470'	Elevation: 3220'	Farm or Lease Name: FEDERAL 9 COM
Csg. Size: 5 1/2" / Wt.: 20.0 / d: 4.700	Set At: 11681.62	Perforations: From 11349' To 11368'			Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.9 / d: 1.995	Set At: 11117.69 KB	Perforations: From - To -			Unit: G / Sec.: 9 / Twp.: 21S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11118.79' KB			County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 66° @ 11360'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NEW MEXICO
L: 11360'	H: 11360'	Gg: 0.591	% CO_2: 0.87	% N_2: 0.28	% H_2S: -
Prover	Meter Run: 4"	Taps: 2" ORFICE / FLANGE			

FLOW DATA

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							2805.0		PACKER	CHOKE	
1.	4"	x	2.00"	480.0	6.0	80	2542.0	65		9/64"	45 MIN
2.	4"	x	2.00"	480.0	12.0	80	2387.0	66		11/64"	45 MIN
3.	4"	x	2.00"	480.0	16.0	82	2185.0	67		13/64"	45 MIN
4.	4"	x	2.00"	480.0	27.0	80	1903.0	67		16/64"	45 MIN
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.	19.81	54.42	493.2	.9813	1.301	1.036	1426
2.	19.81	76.95	493.2	.9813	1.301	1.036	2016
3.	19.81	88.86	493.2	.9795	1.301	1.036	2324
4.	19.81	115.47	493.2	.9813	1.301	1.036	3025
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	0.73	540	1.53	.931
2.	0.73	540	1.53	.931
3.	0.73	542	1.53	.931
4.	0.73	540	1.53	.931
5				

Gas Liquid Hydrocarbon Ratio 234803 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas 0.591 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX ____
Critical Pressure 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature 354 R ____ R

P_S 3652.2 P_S^2 13339

NO	P_t^2	P_F	P_F^2	$P_S^2 - P_F^2$
1	6529	3389.2	11487	1852
2	5761	3266.2	10668	2671
3	4832	3114.2	9698	3641
4	3672	2743.2	7525	5814
5				

(1) $\frac{P_F^2}{P_F^2 - P_S^2} = 2.7943$

(2) $\left[\frac{P_F^2}{P_F^2 - P_S^2}\right]^n = 1.5490$

AOF = Q $\left[\frac{P_F^2}{P_F^2 - P_S^2}\right]^n = 4686$

Absolute Open Flow 4686 Mcfd @ 15.025 | Angle of Slope θ 62.2° | Slope, n 0.527

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAUGE @ 11370'

Approved By Commission:	Conducted By:	Calculated By: R. WEST	Checked By: