NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 4-25-80	
Company: JAKE L. HAMON			Connection: PHILLIPS & WARREN		
Pool: OSUDO			Formation: MORROW		Unit
Completion Date: 4-4-80	Total Depth: 11,133		Plug Back TD	Elevation: 3612 GR	Farm or Lease Name: AMERADA FEDERAL
Csg. Size: SLIM HOLE COMPLETION	Wt.	d	Set At	Perforations: From To	Well No.: 2
XXXXXXXX / DRILL PIPE	Wt.: 4" 16.6	d: 2.992	Set At: 11,120	From: 11,123 To: 11,133 OPEN HOLE	Unit: F Sec.: 17 Twp.: 20S Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: LEA
Producing Thru: DRILL PIPE	Reservoir Temp. °F: 185° @ 11,120	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
11,120	11,120	.611	.111	.391			4"	FLANGE

NO.	FLOW DATA: Prover Line SI x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					4473				
1.	4 X 3.00	135	60.84	47	4338	50			45 MIN.
2.	4 X 3.00	131	31.36	61	4383	50			30 MIN.
3.	4 X 3.00	128	16.0	63	4412	50			30 MIN.
4.	4 X 3.00	128	5.76	67	4425	50			30 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	51.64	94.96	148.2	1.013	1.279	1.015	6449
2.	51.64	67.25	144.2	.9990	1.279	1.012	4491
3.	51.64	47.53	141.2	.9971	1.279	1.012	3168
4.	51.64	28.52	141.2	.9933	1.279	1.012	1894
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.22	507	1.40	.971
2.	.21	521	1.44	.976
3.	.21	523	1.44	.976
4.	.21	527	1.46	.977
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .611 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

P_c 4486.2 P_c^2 20,126.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4395.5	19320.4	805.6
2		4407.9	19429.6	696.4
3		4431.5	19638.2	487.8
4		4440.5	19718.0	408.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 24.983$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 24.983$

Note: $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 161.113$

Absolute Open Flow 161,113 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.00

Remarks: 1.8 BBLS. OF CONDENSATE MADE DURING TEST

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	R.R.	J.W.W.