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: 2-1-83	
Company: AMOCO PRODUCTION COMPANY			Connection: ATMOSPHERE		
Pool: WEST DSUDO			Formation: MORROW		Unit: BEST GAS COM
Completion Date: 02/03/83	Total Depth: 13570.		Plug Back TD: 13570.	Elevation: 3698.	Farm or Lease Name:
Csg. Size: 5.500 / Wt.: 19.8 / d: 4.778	Set At: 12870.		Perforations: From 12870. To 13570.		Well No.: 1
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441	Set At: 13022.		Perforations: From 0. To 0.		Unit: G / Sec.: 23 / Twp.: 20S / Rge.: 35E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 12760.		County: LEA COUNTY
Producing Thru: TUBING	Reservoir Temp. °F: 172.@ 13220.	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13220.	13220.	0.667	0.49	0.59	0.	0.	4.0	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					4383.	73.			24.0
1.	4.00 X 2.000	530.	3.0	76.	3911.	76.	0.	0.	0.7
2.	4.00 X 2.000	530.	19.0	58.	3381.	58.	0.	0.	0.7
3.	4.00 X 2.000	530.	30.0	60.	2890.	60.	0.	0.	0.7
4.	4.00 X 2.000	530.	50.0	60.	2430.	60.	0.	0.	0.7
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	19.83	40.37	543.2	0.9850	1.2240	1.0526	1016.
2.	19.83	101.59	543.2	1.0010	1.2240	1.0596	2616.
3.	19.83	127.66	543.2	1.0000	1.2240	1.0591	3288.
4.	19.83	164.80	543.2	1.0000	1.2240	1.0591	4237.
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.81	536.	1.42	0.903
2.	0.81	519.	1.38	0.891
3.	0.81	520.	1.38	0.891
4.	0.81	520.	1.38	0.891
5.				

Gas Liquid Hydrocarbon Ratio: 3.1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 47.2 Deg.
Specific Gravity Separator Gas: 0.667 / XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX / 1.349
Critical Pressure: 670. P.S.I.A. / 636. P.S.I.A.
Critical Temperature: 377. R / 590. R

P_c 4371.9 P_c^2 19114.

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1	15399.	3898.	15194.	3919.
2	10352.	3333.	11143.	7970.
3	8429.	2952.	8772.	10342.
4	5969.	2537.	6437.	12677.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5027$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5027$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6389.$

Absolute Open Flow: 6389. Mcfd @ 15.025 | Angle of Slope θ: 45.0 | Slope, n: 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR	JOHN WEST	STEVE BATES	BOB LaROBADIERE