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: 8-13-87

Company: Amoco Production Company	Connection:		
Pool: Bravo Dome	Formation: Tubb		Unit: BDCDGU
Completion Date: 12-11-84	Total Depth: 2832'	Plug Back TD: 2768'	Elevation: 4750'
Farm or Lease Name:			
Csg. Size: 7 / Wt.: 20# / d: 6.456 / Set At: 2832'	Perforations: From 2484 To 2526		Well No.: 1833-231K
Tbg. Size: 3.5 / Wt.: 9.5# / d: 3.0 / Set At: 2332	Perforations: From To		Unit: K / Sec.: 23 / Twp.: 18 / Rge.: 33
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2322'		County: Harding
Producing Thru: Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.25
			State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
			100	0	0		4.0	Flange

NO.	FLOW DATA: Prover Line Size 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					194				24 hr.
1.	4.026 x 0.50	150	1	56	150	56	0		1 hr.
2.	4.026 x 0.50	135	1	56	135	56	0		1 hr.
3.	4.026 x 0.50	120	1	60	120	60	0		1 hr.
4.	4.026 x 0.50	105	1	65	105	65	0		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							
2.							13
3.							12
4.							11
5.							11

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature 496 R ____ R

P_c 206.25 P_c^2 42539

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		162.25	26325	16214
2		147.25	21683	20856
3		132.25	17490	25049
4		117.25	13748	28791
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6236$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6198$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 21$

Absolute Open Flow 21 Mcfd @ 15.025 | Angle of Slope θ 63.4 | Slope, n .5

Remarks: Due to low gas volumes and small liquid volumes this well will not totally unload. I believe this is the best test we can get in reason.

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	RANDY MAHANNAH	RICHARD ROETH	