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: 8-18-87

Company: Amoco Production Company	Connection:		
Pool: Bravo Dome	Formation: Tubb		Unit: BDCDGU
Completion Date: 12-10-84	Total Depth: 2856'	Plug Back TD: 2780'	Elevation: 4730'
Farm or Lease Name:			
Csg. Size: 7" / Wt.: 20# / d: 6.456 / Set At: 2856'	Perforations: From 2496' To 2517'		Well No.: 1833-261K
Tbg. Size: 3.5 / Wt.: 9.5# / d: 3.00" / Set At: 2400'	Perforations: From To		Unit: K / Sec.: 26 / Twp.: 18 / Rge.: 33
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 2368'		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							333				24 hr.
1.	4.026	x	0.50	190	1	80	190	80	0		1 hr.
2.	4.026	x	0.50	173	2	79	173	79	0		1 hr.
3.	4.026	x	0.50	155	3	80	155	80	0		1 hr.
4.	4.026	x	0.50	135	3	81	135	81	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							14
2.							19
3.							22
4.							20
5.							

NO.	P_t	Temp. °R	T_f	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 345.25 P_c^2 119197

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		202.25	40905	78292
2		185.25	34317	84880
3		167.25	27972	91225
4		147.25	21682	97515
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 26$

Absolute Open Flow: 26 Mcfd @ 15.025 — Angle of Slope θ: 45 — Slope, n: 1.0

Remarks:

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