

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type test ☒ Initial ☐ Annual ☐ Special					Test Date						
Company AMOCO PRODUCTION COMPANY					Connection						
Pool BRAND DOME CARBON DIOXIDE GAS UNIT					Formation TUBB						
Completion Date 7/20/93			Total Depth 2606		Plug Back TD 2519		Elevation 4838		Unit BDCDGU		
Csq. Size 4 1/2" FG	Wt. 449	d 3.95	Set At 2600	Perforations: OPEN HOLE From 2222 To 2330				Well No. 2133 - 091 F			
Thq. Size -	Wt. -	d -	Set At -	Perforations: From To				Unit F	Sec. 9	Twp. 21N	Rge. 33E
Type well - Single - Broadhead - G.G. or G.O. Multiple SINGLE					Packer Set At			County Harding			
Producing Thru CASINK		Reservoir Temp. °F 95		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2		State NEW MEXICO			
L -	H 2330	G _g 1.529	% CO ₂ 100	% N ₂ 0	% H ₂ S 0	Prover		Meter Run	Taps FLANGE		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI				225							
1.	4.026 x	0.250		235							0.12 hr
2.	4.026 x	0.375		227							0.27 hr
3.	4.026 x	0.500		199							0.37 hr
4.	4.026 x	0.750		140							0.25 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							230
2							515
3							839
4							1943
5							

NO.	P	Temp. °R	T	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1					DRY	DRY	1.529	XXXXXX	1072	547
2										
3										
4										
5										

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	307.2	94371	247.2	61107	33263
2			239.2	57217	37154
3			211.2	44605	49766
4			152.2	23165	71206
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.837$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.1$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.720$

Absolute Open Flow	3.1	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.52
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Approved by Commission:	Checked By:	Calculated By:	Checked By:
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2133-091F

