

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR A WELL

RECEIVED
JUL 12 1983
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-22-83	
Company Dugan Production Corp.		Connection	
Pool Blanco Mesaverde and Undesignated Mancos		Formation Mesaverde - Mancos	
Completion Date 5-13-83	Total Length 7759'	Plug Back TD 7671'	Elevation 7795 GL
Csg. Size 4-1/2"	Wt. 10.5# 11.5#	Set At 7727' RKB	Perforations From 6234 To 7272
Tub. Size 2-3/8"	Wt. 4.7#	Set At 7500' RKB	Perforations From open ended To
Type Well - Single - Blindhead - G.C. or G.O. Multiple downhole commingled G-O (appl. pending)		Packer Set At 6150'	Farm or Lease Name Divide
Producing thru tubing	Reservoir Temp. °F p	Mean Annual Temp. °F	Base Press. - P ₀
L	H	G _g	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run		Taps	

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							1485		packer		9 days
1.											
2.											
3.	5/8" pos. choke			87		60			0		3 hrs.
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd
1							
2							
3	8.5417		99	1.000	.9608	1.012	822
4							
5							

NO.	P _t	Temp. °R	T _f	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										
2										
3										
4										
5										

P _c 1497	P _c ² 2241.0				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1					
2					
3	9.8		9.8	2231.2	
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0044$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0033$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 825$$

Absolute Open Flow 825 Mcfd @ 15.025 Angle of Slope 0 Slope, n .75

Remarks: P_t - P_w - friction negligible. Spray of oil continuously throughout flow.
Application to commingle Mancos and Mesaverde pending.

Approved By Division Conducted By: Jacobs Calculated By: Jacobs Checked By: