

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 11-10-79	
Company Dugan Production Corp.				Connection		
Pool Basin				Formation Dakota		Unit
Completion Date 10-30-79		Total Depth 6510'		Plug Back TD 6477'		Elevation 5878'
Csg. Size 4-1/2"	Wt. 10.5	d	Set At 6511	Perforations: From 6239 To 6351		Well No. #1E
Tbg. Size 1-1/2"	Wt. 2.75 2.9	d	Set At 6337'	Perforations: From Open To End		Unit Sec. Twp. Rge. D 24 30 14
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan
Producing Thru tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico
L	H	Gg .65	% 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
1.							1810		1810		7 days
2.											
3.	3/4" Pos. Choke						88	52 ⁰	800		3 hrs
4.											
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.							
3.	12.365		100	1.008	.9608	1.011	1211
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.				
4.				
5.				

P_c 1822 P_c² 3319684

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2478$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n.75} = 1.1806$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1430$

Absolute Open Flow	1430		Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75	
Remarks:						

Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By: Jacobs
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