

3 NMOCD

1 EPNG

1 File

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

DEC 21 1981

OIL CON. COM.

DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12-16-81	
Company Dugan Prod Corp.		Connection	
Pool So. Gallegos Fr.		Formation Fruitland	
Completion Date 12-5-81		Total Depth 1360	Plug Back TD 1318
Elevation 6096		Farm or Lease Name Western Federal	
Csq. Size 2 7/8	wt. 6.4	Set At 1350	Perforations: From 1279 To 1292
Thq. Size 1 1/4	wt. 2.3	Set At 1267	Perforations: From open ended To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single gas		Packer Set At None	County San Juan
Producing Thru Thy.	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a
State New Mexico			
L	H	G _g 0.62	% 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							232		232		
1.											
2.											
3.	2"		1/2"	2		48			70		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	5.4315		14	1.0117	0.9837	1.000	76
4							
5							

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

P _c 244	P _c ² 59536	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1273$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1072$
NO.	P _r ²	P _w ²	P _r ² - P _w ²
1			
2	82	6724	52812
3			
4			
5			

Absolute Open Flow	84	Mcf/d @ 15.025	Angle of Slope θ	Slope, n
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Remarks:

Approved by Division	Conducted By	Calculated By	Checked By
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