C/

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

N. M. O. C. C. COPY

RECEIVED
APR 14 1971
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 3/31/71	
Company: Dalport Oil Corporation			Connection: None		
Pool: Double L			Formation: Queen		
Completion Date	Total Depth: 1853		Plug Back TD	Elevation: 3846	Farm or Lease Name: Hill Federal
Csg. Size: 4 1/2 / Wt.: 9.5 / d: 4.082 / Set At: 1852			Perforations: From 1816 To 1828		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 1815			Perforations: From open ended To		Unit: K / Sec.: 26 / Twp.: 14S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
1815	1815	.997	—	63.84	—	X		

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						643		643		120 hrs
1.	2	1	8.8		83	540	60	576		30 min.
2.	2	1	13.8		85	499	60	550		30 min
3.	2	1	23.3		85	419	60	487		30 min
4.	2	1 1/4	18.4		84	304	60	350		30 min
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	17.09		22.0	.9736	1.056	0.00	389
2.	17.09		27.0	.9768	1.056	0.00	476
3.	17.09		36.5	.9768	1.056	0.00	643
4.	27.63		31.6	.9777	1.056	0.00	901
5.							

NO.	P_t	Temp. °R	T_r	Z
1	*			
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .997 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 556 P.S.I.A. P.S.I.A.
Critical Temperature: 283 R R

P_c 656.2 P_c^2 430.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		589.2	347.2	83.4
2		563.2	317.2	113.4
3		500.2	250.2	180.4
4		363.2	131.9	298.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.442$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.273$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1147$

Absolute Open Flow: 1147 Mcfd @ 15.025 | Angle of Slope θ: | Slope, n: 0.66

Remarks: * below limits of table.

Approved By Commission:	Conducted By:	Calculated By: Donna Kellis	Checked By: