

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 8-4-73	
Company DALPORT OIL CORP.				Connection TO AIR		
Pool UNDESIGNATED				Formation QUEEN		Unit
Completion Date 8-4-73		Total Depth 2710		Plug Back TD 2678		Elevation 4126
Farm or Lease Name TERRA FEDERAL						Well No. 1
Csg. Size 4 1/2	Wt. 9.5#	d 4.082	Set At 2710	Perforations: From 2607 To 2614.5		Unit J
Tub. Size 2 3/8	Wt. 4.5	d 1.995	Set At 2591	Perforations: From OPEN To ENDED		Sec. 17
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Twp. 12S
Producing Thru TUBING		Reservoir Temp. °F 98 @ 2609'		Mean Annual Temp. °F 60		Rge. 31E
Baro. Press. - P _a 13.2		State NEW MEXICO		County CHAVES		
L 2591	H 2591	Gg .930	% CO ₂ -----	% N ₂ 71.13	% H ₂ S -----	Prover POS CHOKE
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	POSITIVE CHOKE										
1.	8/64					80	892.0				CHOKE
2.	12/64					79	856.0	80		8/64	60 MIN
3.	16/64					80	806.0	79		12/64	60 MIN
4.	20/64					80	716.0	80		16/64	60 MIN
5.						80	614.0	80		20/64	60 MIN

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.2618		869.2	0.9813	1.037	1.025	237
2	0.6101		819.2	0.9822	1.037	1.024	521
3	1.112		729.2	0.9813	1.037	1.022	843
4	1.771		627.2	0.9813	1.037	1.019	1152
5							

NO.	P _f	Temp. °R	T _f	Z	TSTM			
1	1.61	540	1.97	0.951	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
2	1.51	539	1.97	0.954	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
3	1.35	540	1.97	0.958	Specific Gravity Separator Gas 0.930 X X X X X X X X			
4	1.16	540	1.97	0.963	Specific Gravity Flowing Fluid X X X X X			
5					Critical Pressure 541 P.S.I.A. _____ P.S.I.A.			
					Critical Temperature 274 R _____ R			

NO.	P _f	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.7810}{1.7810 - 0.9657} = 2.052$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2052$
1		928.2	861.6	71.9	
2		874.2	764.2	169.3	
3		778.2	605.6	327.9	
4		677.2	458.6	474.9	
5					

Absolute Open Flow 2052 Mcfd @ 15.025		Angle of Slope 49.5°		Slope, n 0.854
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA BOMB @ 2609 FEET				
Approved By Commission: Conducted By: D. A. T. Calculated By: R. L. W. Checked By: J. W. W.				

RECEIVED
 AUG 13 1973
 NEW MEXICO GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

RECEIVED

AUG 14 1973

O. C. C.
ARTESIA, OFFICE