NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 5-1-65

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 1-8-75

Company: DALPORT OIL CORPORATION	Connection: TO AIR			
Pool: WILDCAT	Formation: QUEEN SAND			Unit
Completion Date: 1-8-75	Total Depth: 2215'	Plug Back TD: 2173'	Elevation: 3863.5 GR.	Farm or Lease Name: WALTON FEDERAL
Csg. Size: 4 1/2" / Wt.: 9.5# / d: / Set At: 2215'		Perforations: From 2118' To 2128'		Well No.: 2
Tbg. Size: 2" / Wt.: 4.6# / d: / Set At: 2109'		Perforations: From OPEN To ENDED		Unit: N / Sec.: 34 / Twp.: 13S / Rge.: 30E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 81° @ 2123'	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
2123	2123	.9036	.12	63	-0-	POSITIVE CHOKES		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	POSITIVE CHOKES					772.0				
1.		8/64"	554.0	–	54	554.0	54			50 M.N.
2.		10/64"	480.0	–	57	480.0	57			40 M.N.
3.		12/64"	414.0	–	58	414.0	58			40 M.N.
4.		14/64"	341.0	–	60	341.0	60			40 M.N.
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.	0.2618	–	567.2	1.006	1.052	1.025	151.1
2.	0.4173	–	493.2	1.003	1.052	1.021	221.7
3.	0.6101	–	427.2	1.002	1.052	1.018	279.7
4.	0.8419	–	354.2	1.000	1.052	1.015	318.4
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.02	514	1.80	.952
2.	0.89	517	1.81	.959
3.	0.77	518	1.82	.965
4.	0.64	520	1.82	.970
5.				

Gas Liquid Hydrocarbon Ratio: DRY — Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: — Deg.
Specific Gravity Separator Gas: 0.9036 — XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 555 P.S.I.A. — P.S.I.A.
Critical Temperature: 285 R — R

P_c 863.2 P_c^2 745.1

NO.	P_w	P_s	P_s^2	$P_c^2 - P_s^2$
1.	321.7	642.2	412.4	332.7
2.	243.2	565.2	319.5	425.6
3.	182.5	498.2	248.2	496.9
4.	125.5	420.2	176.6	568.5
5.				

(1) $\frac{P_c^2}{P_c^2 - P_s^2} = 1.3106$

(2) $\left[\frac{P_c^2}{P_c^2 - P_s^2}\right]^n = 1.3106$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_s^2}\right]^n = 417$

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Absolute Open Flow: 417 Mcfd @ 15.025 — Angle of Slope θ: 45°

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 2123 FEET.

Approved By Commission: — Conducted By: D. TYSON — Calculated By: R. WEST — Checked By: