NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 24 1973
O. C. C.
ARTESIA, NEW MEXICO

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 12-28-72	
Company: DALPORT OIL COMPANY			Connection: To Air		Unit
Pool: S. Lucky Lake Queen			Formation: Queen		
Completion Date: Dec. 23	Total Depth: 1863		Plug Back TD: 1815	Elevation: 3829 KB	Farm or Lease Name: Owen Fed.
Csg. Size: 4-1/2 / Wt.: 9.5 / d: / Set At: 1853			Perforations: From 1733½ To 43		Well No.: 1
Tbg. Size: 2-3/8 / Wt.: 4.5 / d: / Set At: 1721 KB			Perforations: From 1745½ To 47½ open ended		Unit: H / Sec.: 21 / Twp.: 15 S / Rge.: 29 E
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
		.895	0.00	65.87				

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						est*	608.0		Choke		Months
1.	4" OWT		1-1/2"	7.3		60*	570.0	65	12/64"		40 min
2.	4" OWT		1-1/2"	24.7		60*	519.0	65	18/64"		45 min
3.	4" OWT		2"	18.0		60*	444.0	66	24/64"		45 min
4.	4" OWT		2"	29.5		60*	341.0	66	32/64"		45 min
5.											

RATE OF FLOW CALCULATIONS

Gor ~~Xxxxxx~~ Manual Interpolated

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	P_m ~~XXXXX~~ MCF/D	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	Volumes	From	531.7	1.000	.8188	1.000	535
2.	Gor. Test	Manual	1062.2	1.000	.8188	1.000	870
3.	Dated	April	1629.0	1.000	.8188	1.000	1334
4.	1956		2194.5	1.000	.8188	1.000	1797
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	Assumed to be			
2.	negligible due to			
3.	being less than			
4.	table information.			
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0.895 Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: P.S.I.A. P.S.I.A.
Critical Temperature: R R

P_c 673.2 P_c^2 453.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		634.2	402.2	51.0
2		585.2	342.5	110.7
3		526.2	276.9	176.3
4		450.2	202.7	250.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8091$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6979$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3051$

Absolute Open Flow: 3051 Mcfd @ 15.025 Angle of Slope θ: 48.3° Slope, n: 0.893

Remarks: BHP information recorded with Amerada bomb @ 1745'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.E.T.	R.L.W.	J.W.W.