NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised C-1-65

ALL MEASUREMENTS GROUND LEVEL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-16-77	
Company: Great Lakes Chemical Corp.		Connection:			
Pool: Blanco		Formation: Mesaverde		Unit:	
Completion Date: 6-7-77	Total Depth: 4645'	Plug Back TD: 4570'	Elevation: 5888'GR	Farm or Lease Name: Graham	
Csg. Size: 5 1/2 / Wt.: 15.5 / d: 4.950 / Set At: 4638'		Perforations: From 4162' To 4562'		Well No.: 3	
Tbg. Size: 1 1/4 / Wt.: 2.4 / d: 1.380 / Set At: 4506'		Perforations: From Open ended		Unit: J / Sec.: 3 / Twp.: 27N / Rge.: 8W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.-G. Multiple		Packer Set At: 3170' KB		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 125@ 4656'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0	State: New Mexico	
L: 4506 / H: 4506	Gg: 0.65 est.	% CO_2: --	% N_2: --	% H_2S: --	Prover: -- / Meter Run: -- / Taps: --

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	--			--	--	--	846	50	--	--	--
1.	3/4" Choke										
2.											
3.											
4.											
5.				122	--	62	122	62	--	--	3

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							
4							
5	11.00	--	134	.9981	1.240	1.014	1850

NO.	P_t	Temp. °R	T_t	Z
1				
2				
3				
4				
5	.20	522	1.39	.973

Gas Liquid Hydrocarbon Ratio --- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons --- Deg.
Specific Gravity Separator Gas --- XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX ---
Critical Pressure 670 P.S.I.A.
Critical Temperature 375 R

P_c 858 P_c^2 736164

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5	17956	645	416266	319898

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3012$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8684$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3457$

Absolute Open Flow 3457 Mcfd @ 15.025 Angle of Slope θ ____ Slope n 0.75

Remarks: ____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W. E. Landry	W. E. Landry	W. E. Landry

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

ALL MEASUREMENTS GL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-23-77	
Company: Great Lakes Chemical Corp.			Connection:		
Pool: ~~Undesignated~~ Largo			Formation: Chacra		Unit:
Completion Date: 6-7-77	Total Depth: 4645'		Plug Back TD: 4570'	Elevation: 5888'GL	Farm or Lease Name: Graham
Csg. Size: 5 1/2 / Wt.: 15.5 / d: 4.950 / Set At: 4644'			Perforations: From 3108' To 3116'		Well No.: 3
Tbg. Size: 1 1/4 / Wt.: 2.4 / d: 1.380 / Set At: 3118'			Perforations: From Open Ended To		Unit: J / Sec.: 3 / Twp.: 27N / Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple			Packer Set At: 3170' KB		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 104 @ 3120	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0 (Area)		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3118	3118	0.65 Est.	--	--	--			

	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						1018	80	1018	80	0
1.										
2.										
3.										
4.										
5.	Pos.Choke .750		43	--	60	43	60	244		3 hrs.

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.							
4.							
5.	11.00		55	1.00	1.240	1.00	750

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

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

P_c 1030 P_c^2 1060900

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5	3025	408	166375	894525

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.186$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.136$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 852$

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JUN 27 1977
OIL CON. COM.
DIST. 3

Absolute Open Flow 852 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		W. E. Landry	