NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 6/9/80	
Company: HUSKY OIL COMPANY			Connection: El Paso		
Pool: Basin, Dakota			Formation: Dakota		Unit
Completion Date	Total Depth: 6700'		Plug Back TD: 6603'	Elevation: 6298' KB	Farm or Lease Name: Bolack "D"
Csg. Size: — / Wt.: 10.5 / d: 4½"	Set At: 6642'		Perforations: From — To		Well No.: 1-E
Tbg. Size: — / Wt.: — / d: 2-3/8"	Set At: 6512'		Perforations: From 6543' To 6563'		Unit: E/P Sec.: 16 Twp.: 27N Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: --		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 0	Mean Annual Temp. °F	Baro. Press. – P_a: 15		State: New Mexico
L: 6512 / H: 6553	Gg	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					654		655		168
1.	2" x ¼"	165		87	165	87			9.3
2.									
3.									
4.									
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	26.51		180				265.1
2							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	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 770 P_c^2 592,900

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	45,796		45,796	547,104
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.08$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.08$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 287.3$

Absolute Open Flow 287.3 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.0

Remarks: Slope assumed to be 1.0 since no previous test is available. Flow rate was measured with a 2" critical flow prover.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		George Popovec	