NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 15 1967
OIL CON. COM.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-12-67	
Company: Campbell, Kiel & Rothwell			Connection: None		
Pool: Tocito Dome			Formation: Tocito		Unit:
Completion Date: 12-2-67	Total Depth: 6365		Plug Back TD: 6328	Elevation: 5696 (KB)	Farm or Lease Name: Navajo Tocito
Csg. Size: 4.50 / 4.50	Wt.: 9.50 / 10.50	d: 4.090 / 4.052	Set At: 3345 / 3020-6365	Perforations: From 6322 To 6328	Well No.: 1
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 6300	Perforations: From Open To Ended	Unit: G Sec.: 9 Twp.: 26N Rge.: 18W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: 130 @ 6365	Mean Annual Temp. °F: -	Baro. Press. – P_a: 12.0		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6300	6328	Est. 0.72	-0-	-0-	-0-	-	4"	Flange

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	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						2546	-	2544	-	9 da
1.	4.0"	2.50	660	23	54	2355	-	2400	-	1.25 Hr
2.	4.0"	2.50	560	48	54	2034	-	2292	-	1.00 Hr
3.	4.0"	2.50	640	61	63	1771	-	2171	-	1.00 Hr
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	42.13	123.2	-	1.0058	0.9129	1.1000	5,243
2.	42.13	163.5	-	1.0058	0.9129	1.0820	6,844
3.	42.13	198.5	-	0.9971	0.9129	1.0870	8,275
4.							
5.							

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

Gas Liquid Hydrocarbon Ratio 46 bbl/MCF or 21,484 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons -0- Deg.

Specific Gravity Separator Gas Est. 0.72 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 2558 P_c^2 6543

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2412	5818	725
2		2304	5308	1235
3		2183	4765	1778
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.68$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.945$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 16,095$

Absolute Open Flow 16,095 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.51

Remarks: Test conducted thru test unit. Choke openings - 1st flow rate-14/64", 2nd flow rate - 21/64", 3rd flow rate 27/64".

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Ewell N. Walsh	Ewell N. Walsh	

CAMPBELL, KIEL & ROTHWELL
Navajo Tocito No. 1
SWNE Sec.9-T26N-R18W
San Juan County, New Mexico
December 12, 1967