STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-13-81	
Company: Caulkins Oil Company		Connection:			
Pool: Basin		Formation: Dakota		Unit:	
Completion Date: 11-06-81	Total Depth: 7375	Plug Back TD: 7375	Elevation: 6411' Gr.	Farm or Lease Name: Breech A	
Csg. Size: 4½" & 7" / Wt.: 11.6# & 23# / d: 4.000 & 6.366 / Set At: 6568		Perforations: From 7076 To 7325		Well No.: 132E	
Tbg. Size: 2 3/8" / Wt.: 4.75# / d: 1.995 / Set At: 7351		Perforations: From 7351 To		Unit: D / Sec.: 9 / Twp.: 26N / Rge.: 6W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Gas Multiple		Packer Set At: 5971		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico	
L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

FLOW DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI										
1.						1777		PKR		7 Days
2.						157		PKR		3 Hours
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	14.1605		169	1.000	1.000	1.000	2,393
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 _____ XXXXXX
Specific Gravity Flowing Fluid _____ XXXXXX
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R _____ R

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OIL CON. COM.
DIST. 3

P_c 1789 P_c^2 3,200,521

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	28,561		178,781	3,021,740
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.059$

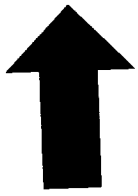
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.044$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,498$

Absolute Open Flow 2,498 Mcfd @ 15.025 | Angle of Slope θ 75 | Slope, n

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:



LTR

Job separation sheet

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-27-81	
Company: Caulkins Oil Company		Connection:			
Pool: Blanco Mesa Verde		Formation: Mesa Verde		Unit:	
Completion Date: 11-6-81	Total Depth: 7375	Plug Back TD: 7375	Elevation: 6411	Farm or Lease Name: Breech A	
Csg. Size: 4½ & 7 / Wt: 11.6 & 23 / d: 4.0 & 6.366 / Set At: 7375		Perforations: From 5112 To 5278		Well No.: 132 E	
Tbg. Size: 1 1/4 / Wt: 2.3 / d: 1.381 / Set At: 5450		Perforations: From 5450 To		Unit: D / Sec.: 9 / Twp.: 26N / Rge.: 6W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas Gas Multiple		Packer Set At: 5971		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico	

L	H	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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						911		1217		7 Day SI
1.						93		613		3 hrs
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	14,1605		105	1.000	1.000	1.000	1,486
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 _____ XXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

RECEIVED
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OIL CON. COM.
DIST. 3

P_c 1229 P_c^2 1,510,441

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		625	390,625	1,119,816
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3488$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2516$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,860$

Absolute Open Flow 1,860 Mcfd @ 15.025 | Angle of Slope θ 75 | Slope, n

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By: