NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
HOBBS DIVISION
APR 29 10

Form C-122
Revised 9-1-65

Div. Hdq.
Ass't Div. Mgr.
Div. Engr.
Div. Supt.

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 4-22-70	Unit: HAI 21
Company: Continental Oil Company	Connection: None			
Pool: New Mexico Federal Unit	Formation: Eumont			Farm or Lease Name: SEMU Penn.
Completion Date: 4-1-70	Total Depth:	Plug Back TD:	Elevation: 3531 DF	Well No.: 90
Csg. Size: 9 5/8 / Wt.: 36 / d: / Set At:	Perforations: From 3221 To 3650			
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3593	Perforations: From OPEN To END			Unit: J / Sec.: 22 / Twp.: 20 / Rge.: 36
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At:			County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	(Assumed) .680	% CO_2	% N_2	% H_2S	Prover: X	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	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.						505	60	505		72+
1.	2	3/32			68	498	68	499		
2.	2	3/16			69	472	69	484		
3.	2	7/32			69	456	69	477		
4.	2	1/4			68	436	68	469		
5.	2	5/16			68	385	68	455		

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	.1410		511.2	.9924	1.206	1.057	91.19
2.	.6082		485.2	.9915	1.206	1.055	372.3
3.	.8393		469.2	.9915	1.206	1.052	495.3
4.	1.087		449.2	.9924	1.206	1.050	613.6
5.	1.672		398.2	.9924	1.206	1.045	832.7

NO.	P_t	Temp. °R	T_f	Z
1.	.76	528	1.37	.895
2.	.73	529	1.37	.899
3.	.70	529	1.37	.903
4.	.67	528	1.37	.907
5.	.60	528	1.37	.916

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .680 (Assumed) XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 669 P.S.I.A. --- P.S.I.A.
Critical Temperature: 385 R --- R

P_c 518.2 P_c^2 268.5

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	261.3		262.3	6.2
2	235.4		247.2	21.3
3	220.1		240.3	28.2
4	201.8		232.5	36.0
5	158.6		219.2	49.3

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.446$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.723$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,934$

Absolute Open Flow: 3,934 Mcfd @ 15.025 | Angle of Slope θ: 47.5 | Slope, n: .916

Remarks: Wellhead potential = 1.700 with an nt of .740

APR 1970

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. B. Murray	J. B. Murray	