NEW MEXICO OIL CONSERVATION COMMSS

MULTIPOINT A ONE POINT BACK PRESSURE TEST OR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 04/11/80	
Company: Amoco Production Company		Connection: Northern Natural Gas			
Pool: Eumont		Formation: Queen		Unit	
Completion Date: 12/27/80	Total Depth: 6750.	Plug Back TD: 6711.	Elevation: 3507.	Farm or Lease Name: State C Tract 11	
Csg. Size: 5.500 / Wt.: 14.0 / d: 5.012 / Set At: 6750.		Perforations: From 3520. To 3562.		Well No.: 10	
Tbg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 3450.		Perforations: From 0. To 0.		Unit: J / Sec.: 2 / Twp.: 21S / Rge.: 36E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 3389.		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 93. e 3541.	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3541.	3541.	0.732	1.31	1.26	0.	0.	4.0	Flange

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					153.	53.			43.7
1.	4.03 x 1.000	97.	1.5	38.	149.	53.	0.	0.	0.5
2.	4.03 x 1.000	100.	3.5	40.	147.	53.	0.	0.	0.5
3.	4.03 x 1.000	100.	8.0	40.	142.	55.	0.	0.	0.5
4.	4.03 x 1.000	100.	29.0	40.	128.	58.	0.	0.	0.7
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	4.75	12.86	110.2	1.0218	1.1688	1.0150	74.*
2.	4.75	19.90	113.2	1.0198	1.1688	1.0513	114.
3.	4.75	30.09	113.2	1.0198	1.1688	1.0153	173.
4.	4.75	57.30	113.2	1.0198	1.1688	1.0153	330.
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.16	498.	1.26	0.971
2.	0.17	500.	1.27	0.970
3.	0.17	500.	1.27	0.970
4.	0.17	500.	1.27	0.970
5.				

Gas Liquid Hydrocarbon Ratio 0. Mcf/bbl.

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

Specific Gravity Separator Gas 0.732 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX 0.732

Critical Pressure 669. P.S.I.A. 699. P.S.I.A.

Critical Temperature 394. R 394. R

P_c 166.3 P_c^2 28.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	26.	162.	26.	1.
2	26.	160.	26.	2.
3	24.	156.	24.	3.
4	20.	143.	20.	7.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.8443$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.1927$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1052.$

Absolute Open Flow 1052. Mcfd @ 15.025 Angle of Slope θ 49.2 Slope, n 0.862

Remarks:

Approved By Commission	Conducted By:	Calculated By:	Checked By:
Jerry Sexton Dist. I Supv.	John West Engr.	R. M. Whitten	W. D. Magness

3-NMOCD-H 1-Hou 1-Susp 1-WDM 1-DLB