NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 10 '88
O. C. D.
ARTESIA, OFFICE

Type Test: 4POINT [X] Initial [ ] Annual [ ] Special	Test Date: 2/10/87		
Company: MCKAY OIL CORP.	Connection: TO AIR		
Pool: W. PECOS SLOPE ABO	Formation: ABO		
Completion Date: 2/7/87	Total Depth: 3400	Plug Back T.D.: 3151	Elevation: 4111
Csg. Size: 4.5 / Wt.: 9.5 / d: / Set At: 3204	Perforations: From 2815 To 2918.5		
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2785	Perforations: From OPEN To ENDED		
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE		
Producing Thru: TUBING	Reservoir Temp. °F: 98 @ 2867	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2

Farm or Lease Name	Well No.	Unit	Sec.	Twp.	Rge.
HOSMER FED.	3	A	13	6S	22E

County: CHAVES
State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2867	2867	0.639	0.216	4.893	Ø	2.000	Ø	Ø

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI						
1.	2.000		.125	759	0.00	58
2.	2.000		.1875	709	0.00	55
3.	2.000		.21875	664	0.00	54
4.	2.000		.250	609	0.00	52
5.	2.000		.3125	516	0.00	51

TUBING DATA		CASING DATA		Duration of Flow
Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
785	58	785	58	72HRS
759	58	756	58	60MIN
709	55	709	55	60MIN
664	54	665	54	60MIN
609	52	614	52	60MIN
516	51	526	51	60MIN

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	0.2648	0.00	772.2	1.002	1.251	1.073	274
2	0.6082	0.00	722.2	1.005	1.251	1.068	590
3	0.8393	0.00	677.2	1.006	1.251	1.063	760
4	1.0870	0.00	622.2	1.008	1.251	1.060	904
5	1.6720	0.00	529.2	1.009	1.251	1.051	1174

NO.	P_t	Temp. °R	T_t	Z
1	1.17	518	1.44	.868
2	1.09	515	1.44	.877
3	1.02	514	1.44	.885
4	0.94	512	1.43	.890
5	0.80	511	1.43	.906

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0. Deg.
Specific Gravity Separator Gas: 0.639 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.639
Critical Pressure: 661 P.S.I.A. 661 P.S.I.A.
Critical Temperature: 358 R 358 R

P_c 798.2 P_c^2 637

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		769.2	592	45
2		722.2	522	115
3		678.2	460	177
4		627.2	393	244
5		539.2	291	346

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8410$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5396$

POST 10 @ 5-8-87 Temp & BK

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1807.4$

Absolute Open Flow: 1807 Mcfd @ 15.025
Angle of Slope θ: 54.75
Slope, n: 0.707

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By: