NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED BY
MAY 29 1986
O. C. D.
ARTESIA, OFFICE

BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA
MAR 11 1986
ROSWELL, NEW MEXICO

C/P
File

Type Test: 4POINT [X] Initial [ ] Annual [ ] Special		Test Date: 3 10 86	
Company: MCKAY OIL Corp.	Connection: TO AIR		
Pool: W. Pecos Slope Abo	Formation: ABO		Unit: ~~XX~~
Completion Date: 3 7 86	Total Depth: 3566	Plug Back T.D.: ~~3279~~ 3507	Elevation: 4136
Farm or Lease Name: WEST HARVEY FED.			
Csg. Size: 4.5 / Wt.: 10.5 / d: 4.052 / Set At: ~~3534~~ 3545	Perforations: From 2936 To ~~3028~~ 3358	Well No.: 1	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2905	Perforations: From OPEN To ENDED	Unit: D / Sec.: 17 / Twp.: 8S / Rge.: 23E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE	County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 113 @ 2982	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: NEW MEXICO			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2982	2982	0.620	0.32	5.43	Ø	Ø	3.068	FLG

	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						1000		1000		
1.	3.068	1.00	22	7.0	65	390	65	380	65	60MIN
2.	3.068	1.00	34	18.0	65	235	65	275	65	60MIN
3.	3.068	1.00	22	44.0	65	110	65	175	65	60MIN
4.	3.068	1.00	22	53.0	65	50	65	140	65	60MIN
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	4.79	15.70	35.2	0.9952	1.2700	1.0027	95
2	4.79	29.15	47.2	0.9952	1.2700	1.0036	177
3	4.79	39.35	35.2	0.9952	1.2700	1.0027	239
4	4.79	41.95	33.2	0.9952	1.2700	1.0025	255
5							

NO.	P_t	Temp. °R	T_f	Z
1	0.05	525	1.50	0.995
2.	0.07	525	1.50	0.993
3.	0.05	525	1.50	0.995
4.	0.05	525	1.50	0.995
5				

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: 0.620 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.620
Critical Pressure: 664 P.S.I.A. 664 P.S.I.A.
Critical Temperature: 349 R 349 R

P_c 1012.9 P_c^2 1026

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		393	155	871
2		288	83	943
3		188	35	991
4		153	23	1002
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0234$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0234$

Post FD-2
6-6-86
comp + BK

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 261$

Absolute Open Flow: 261 Mcfd @ 15.025 | Angle of Slope @: 45° | Slope, n: 1.000

Remarks: WELL WAS FLOWING, TEST RUN IN DECREASING ORDER

Approved By Commission:	Conducted By: RICK HATCHETT	Calculated By: RICHARD TOWNLEY	Checked By: