

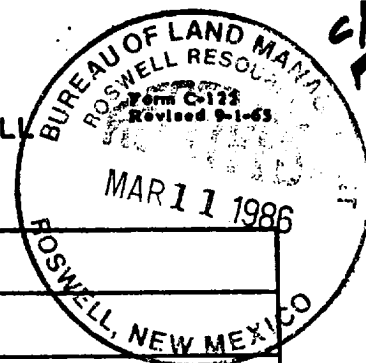
NEW MEXICO OIL AND GAS COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED BY
MAY 29 1986

O. C. D.

ARTESIA, OFFICE

Test Date
3 10 86



Type Test 4POINT ☒ Initial ☐ Annual		Connection TO AIR		Test Date 3 10 86	
Company MCKAY OIL Corp.		Formation ABO		Unit #	
Pool W. Paces Slope Abo		Completion Date 3 7 86		Total Depth 3566	
Plug Holes 3279 3507		Elevation 4136		Form or Lease Name WEST HARVEY FED.	
Casing Size 4.5		Wt. 10.5		d 4.052	
Set At 3545		Perforations: From 2936 To 3028		Well No. 1	
Thg. Size 2.375		Wt. 4.7		d 1.995	
Set At 2905		Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. # D 17 8S 23E	
Type Well - Single - Bradenhead - G.O. 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 2982		H 2982		Cg 0.620	
% CO ₂ 0.32		% N ₂ 5.43		% H ₂ S 0	
Prover 0		Motor Run 3.068		Taps ELG	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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.	
SI							1000		1000	
1.	3.068		1.00	22	7.0	65	390	65	380	65
2.	3.068		1.00	34	18.0	65	235	65	275	65
3.	3.068		1.00	22	44.0	65	110	65	175	65
4.	3.068		1.00	22	53.0	65	50	65	140	65
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	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 _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.05	525	1.50	0.995	0	0	0.620	XXXXXXX	664	349
2	0.07	525	1.50	0.993				XXXXX		
3	0.05	525	1.50	0.995						
4	0.05	525	1.50	0.995						
5										

NO.	P ₁ ²	P _w ²	P ₂ ²	P ₂ ² - P _w ²
1	393	155	871	
2	288	83	943	
3	188	35	991	
4	153	23	1002	
5				

(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.0234$ (2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.0234$

AOR = Q $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 261$

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

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			

