

RECEIVED

MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE MAY 1992 WELL

Form O-122
Revised 9-1-65

O. C. D.
OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-20-92	
Company MCKAY OIL CORP.				Connection ATR		
Pool <i>W. Permian</i>				Formation ABO		Unit N/A
Completion Date 3-11-92		Total Depth 3196		Plug Back To 3161		Elevation 4103 GL
Form or Lease Name REMMELE FED COM						Well No. #14
Casing Size 4.5	Wt. 10.5	d 4.052	Set At 3196	Perforations: From 2918 To 3014		
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 2887	Perforations: From - To -		Unit Sec. Twp. Hgs. I 26 6S 22E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE (GAS)				Factor Set At NONE		County CHAVES
Producing Thru TBG. (GAS)		Reservoir Temp. °F 90		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2
State NEW MEXICO						
L 2887	H 2887	G _g 0.617	% CO ₂ 0.00	% N ₂ 6.069	% H ₂ S 0.00	Prover 2.0 in
Motor Run -		Taps -				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	2 x 0.125						910		910		S.I. 72hr
1.	2 x 0.125			869			869	65	885	65	1 hr.
2.	2 x 0.250			798			798	65	820	65	1 hr.
3.	2 x 0.3125			658			658	65	755	65	1 hr.
4.	2 x 0.375			545			545	65	690	65	1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	0.2648		882.2	0.9952	1.273	1.069	316
2	1.087		811.2	0.9952	1.273	1.064	1188
3	1.672		671.2	0.9952	1.273	1.054	1498
4	2.378		558.2	0.9952	1.273	1.044	1755
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcft/bbl.
1	1.34	525	1.51	0.875	A.P.I. Gravity of Liquid Hydrocarbons	DRY	Deq.
2	1.23	525	1.51	0.884	Specific Gravity Separator Gas	0.617	XXXXXXXXXX
3	1.02	525	1.51	0.901	Specific Gravity Flowing Fluid	XXXXXX	DRY GAS
4	0.85	525	1.51	0.918	Critical Pressure	660	P.S.I.A.
5					Critical Temperature	347	°R

NO.	P _r	P _c	P _w	R _w ²	P _r ² - R _w ²
1	979	958.4		755.2	202.2
2				636.8	308.8
3				432.9	504.4
4				297	629.3
5					

(1) $\frac{P_r^2}{P_r^2 - R_w^2} = 3.104$

AOI = Q $\left[\frac{R^2}{P_r^2 - R_w^2} \right]^n = 3141$

(2) $\left[\frac{P_r^2}{P_r^2 - R_w^2} \right]^n = 2.664$

Absolute Open Flow	3141	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.865
--------------------	------	---------------	------------------	----------	-------

REMARKS: GAS RATES MEASURED WITH A CRITICAL FLOW PROVER.

FIRST RATE = 1/8 in plate. SECOND = 1/4. THIRD = 5/16 FOURTH = 3/8

Approved By Commission:	Conducted By: KELTIC SERVICES	Calculated By: JIM SMITH	Checked By:
-------------------------	----------------------------------	-----------------------------	-------------