

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-JOINT BACK PRESSURE TEST FOR GAS

Form C-122
 Revised 12-7-55

Pool Undesignated		Formation HOBBS OFFICE O.C.C. Harrow		County Lea	
Initial X	Annual	Special APR 18 8 17 AM '66	Date of Test 1/23-26/66		
Company L. R. French Jr.		Lease Astec Uncle		Well No. 1	
Unit 1	Sec. 28	Twp. 18 S	Range 33 E	Purchaser P. L.	
Casing 5 1/2	Wt. 20.00	I.D. 4.778	Set at 14,518	Perf. 13,170	To 13,194
Tubing 2 3/8	Wt. 4.7	I.D. 1.995	Set at 13,200	Perf. O. E.	To
Gas Pay: 13,170	From 13,194	To 13,182	L .635	G 8371	Sur. Press. 13.2
Producing Through:		Casing X	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Deal	
Date of Completion 11-28-65		Packer 13,135	Reservoir Temp. 172		

OBSERVED DATA

Test Interval: From ☐ To ☐ Meter ☒								Type of Test: Flange		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Packer Size)	(Casing Size)	Press. psig.	Int. Flow	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.						3321	60	6250*		
2.	3.068	1.250	600	11	40	3589	60	Pkr.		3
3.	3.068	1.250	600	25	44	2885	64	Pkr.		3
4.	3.068	1.250	600	39	50	2383	64	Pkr.		3
5.	3.068	1.250	600	59	56	1870	66	Pkr.		3

FLOW CALCULATIONS

No.	Coefficient (1/2 Hour)	$\sqrt{\frac{h}{w \cdot t}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow G-MCF PD @ 15.025 psia
1.	9.781	82.15	613.2	1.0198	.9721	1.071	853
2.	9.781	123.89	613.2	1.0157	.9721	1.069	1277
3.	9.781	154.66	613.2	1.0098	.9721	1.067	1584
4.	9.781	190.21	613.2	1.0039	.9721	1.066	1935

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **26.3** cf/bbl. Specific Gravity Separator Gas **.635**

Gravity of Liquid Hydrocarbons **55.5** deg. Specific Gravity Flowing Fluid _____

P_c _____ (1 - e^{-S}) P_c _____ P_c² _____

No.	P _w • BHP psia	P _t ²	F _Q	(F _Q) ²	(F _Q) ² (1 - e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P}{P_c}$
1.	5244					27,500	11,563		
2.	4371					19,106	19,957		
3.	3711					13,772	25,291		
4.	3011					9,066	29,997		
XX	6250	Shut in Bottom Hole Pressure				39,063	- - -		

ABSOLUTE POTENTIAL: **2,250** MCFPD: **.813634**

COMPANY **L. R. French Jr.** WITNESSED _____

ADDRESS **1204 ABC Bldg., Odessa, Texas** COMPANY **Tom Hansen Co., Inc.**

AGENT AND TITLE **Steve Hansen, Contractor**

* Pkr. prevented obtaining Cg. pressure - B. H. P. was measured with Amerade Type RPO-3 Pressure Gauge