NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUL 28 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 6-25-81	
Company: Ike Lovelady Inc.		Connection: To Air			
Pool: Wildcat		Formation: Abo		Unit:	
Completion Date: 6-5-81	Total Depth: 4770	Plug Back TD: ~~4728~~ 4620		Elevation: 3757.5 N.G.	Farm or Lease Name: Pennzoil State
Csg. Size: 4½ / Wt.: 10½# / d: 4.052 / Set At: 4770		Perforations: From 4298 To 4544			Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 4090		Perforations: From Open To Ended			Unit: E / Sec.: 16 / Twp.: 9 S / Rge.: 26 E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: No Packer		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 104° @ 4,421	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
4,421	4,421	.7118	7.62	5.96	-0-	---	4"	Flg.

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	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						940				
1.	4	3/4"	310	18"	102°	927	90	960		
2.	4	3/4"	310	53"	91°	840	90	850		
3.	4	3/4"	310	80"	90°	802	90	800		
4.	4	1"	310	55"	87°	744	90	715		
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	2.661	76.27	323.2	.9619	1.186	1.023	237
2	2.661	130.88	323.2	.9715	1.186	1.025	411
3	2.661	160.80	323.2	.9723	1.186	1.025	506
4	4.753	133.33	323.2	.9750	1.186	1.025	751
5							

NO.	P_t	Temp. °R	T_r	Z
1	.469	562	1.53	.955
2	.469	551	1.50	.952
3	.469	550	1.49	.952
4	.469	547	1.49	.952
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .7118 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 689 P.S.I.A. _____ P.S.I.A.
Critical Temperature 368 R _____ R

P_c * 985 P_c^2 970.225

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		835	697.2	273.0
2		757.2	573.4	396.8
3		723.8	523.8	446.4
4		672.7	452.5	517.72
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.87403$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.87403$

$\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.407$

Absolute Open Flow 1,407 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks: * Plot too flat use 45° thru High Rate

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.R.	M.K.	M.K.