

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

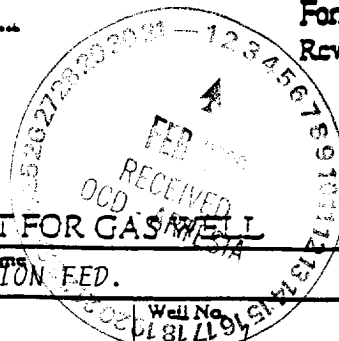
State of New Mexico
B gy. Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

30-015-30761

Form C-172
Revised 4-1-91

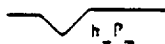


clsf

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator <u>OVY U.S.A.</u>				Lease or Unit Name <u>LION FED.</u>			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date <u>1/7/2000</u>			
Completion Date <u>12/22/99</u>		Total Depth		Plug Back TD		Elevation	
Log. Size		WL	d	Sec. At	Performances:		
					From: <u>11045</u>	To: <u>11055</u>	Unit Loc. - Sec. - TWP. - Rge. <u>20-18-29</u>
Log. Size		WL	d	Sec. At	Performances:		
<u>2-3/8</u>		<u>4.7</u>	<u>1.995</u>	<u>11021</u>	From:	To:	County <u>EDDY</u>
Type Well - Single - Bradenhead - G.G. - G.C. Multiple <u>single</u>				Packer Set At <u>11003</u>		Formation	
Producing Thru <u>tba</u>		Reservoir Temp. °F <u>170.6</u>		Mean Annual Temp. °F <u>60</u>		Baro. Press. - P _a <u>13.2</u>	
						Connection <u>SALES</u>	
L <u>11021</u>	II <u>11021</u>	G _g <u>.630</u>	% CO ₂ <u>.660</u>	% N ₂ <u>.313</u>	% H ₂ S <u>-0-</u>	Prover <u>-0-</u>	Mass Flow <u>3.068</u>
						Taps <u>flg</u>	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. psig.	Diff. h _w	Temp. °F	Press. psig.	Temp. °F	Press. psig.		Temp. °F
St							2285	N/A	PKR	N/A	
1.	3.068	X	1.750	270	1.3	83°	2190				60 min
2.	3.068	X	1.750	291	4.4	79°	2230				60 min
3.	3.068	X	1.750	334	14.7	84°	2150				60 min
4.	3.068	X	1.750	447	56.7	69°	2000				60 min
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcf/d
1.							<u>387</u>
2.							<u>739</u>
3.							<u>1423</u>
4.							<u>3345</u>
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Methd
1.					A.P. L Gravity of Liquid Hydrocarbons	<u>N/A</u>	<u>Dep</u>
2.					Specific Gravity Separator Gas	<u>.630</u>	<u>XXXXXXXXXX</u>
3.					Specific Gravity Flowing Fluid	<u>XXXXX</u>	
4.	<u>TOTAL FLOW</u>				Critical Pressure	<u>673</u>	<u>PSIA</u>
5.					Critical Temperature	<u>364</u>	<u>R</u>

<u>P_r 2379.6</u>		<u>P_c 5662.5</u>										
NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P _w ²	1)	$\frac{P_c^2}{P_c^2 - P_w^2}$	=	<u>5.53</u>	(2)	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2$	=	<u>5.53</u>
1.		2349.5	5520.1	142.4								
2.		2314.1	5355.0	307.5								
3.		2285.3	5222.6	439.9								
4.		2154.0	4639.7	1022.8								
5.												

ΔOF = Q

$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = \frac{18497.8}{}$

Absolute Open Flow <u>18497.8</u>	Methd @ <u>15.025</u>	Angle of Slope θ <u>45°</u>	Slope, n <u>1.000</u>
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES			
* NO LIQUID MADE DURING TEST			
Approved By Division	Conducted By: <u>PRO WELL TESTING</u>	Calculated By: <u>MB</u>	Checked By: <u>BM</u>