

Well Filed 25th File
 Form C-132
 Revised 10-1-88
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STATE OF NEW MEXICO
 ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISIC
 P. O. BOX 2088
 SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

11/27/89

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-13-89	
Company OXY USA, INC.		Connection EL PASO	
Pool NORTH LOVING		Formation ATOKA	
Completion Date 9-9-89		Total Depth 12540	Plug Back TD 12017
Elevation Gr. 18' 3013'		Form or Lease Name SWEARINGEN "A"	
Csg. Size 5"	Wt. 18#	4.276	2997-1253
7 5/8	29.7#	6.875	9700
Perforations: From 11339 To 11343		Well No. 1	
Tub. Size 2 7/8 2 3/8	Wt. 6.5# 4.7#	2.441	Set At 9700
Perforations: From To		Unit Sec. Twp. Rge. J 5 23S 28E	
Type Well - Single - Brownhead - G.C. or G.O. Multiple SINGLE		Pecker Set At 11254	County EDDY
Producing Thru TB6	Reservoir Temp. °F 187 @ 11341	Mean Annual Temp. °F 60	State N.M.
L 11341	H 11341	G _s .577	% CO ₂ .36
		% N ₂ .25	% H ₂ S -
Prover		Meter Run 4.026	Tape FLG.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. I	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							5093.2		PKR		48 NR
1.	4 X 2.000			491	5.76	32	3803.2		"		1 NR
2.	4 X 2.000			491	6.25	72	3813.2		"		1 NR
3.	4 X 2.000			520	23.04	44	3165.2		"		1 NR
4.	4 X 2.000			565	42.25	48	2623.2		"		1 NR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_e}$	Pressure P _e	Flow Temp. Factor FL	Gravity Factor F _g	Super. Compress. Factor, F _{sc}	Rate of Flow Q, Mscf
1	19.81	53.89	504.2	1.028	1.316	1.051	1,518
2	19.81	56.14	504.2	.9887	1.316	1.040	1,505
3	19.81	110.84	533.2	1.016	1.316	1.048	3,077
4	19.81	156.30	578.2	1.012	1.316	1.052	4,338
5.							

NO.	P _e	Temp. °R	T _e	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mscf/bbl.	A.P.L. Gravity of Liquid Hydrocarbons DRY Deg.	Specific Gravity Separator Gas .577	Specific Gravity Flowing Fluid XXXXX	Critical Pressure 672 P.S.I.A.	Critical Temperature 346 °R
1.	.75	492	1.42	.905						
2.	.75	532	1.53	.925						
3.	.79	504	1.45	.911						
4.	.86	508	1.46	.904						
5.										

* P_e 5234.2 P_e² 27396.9

NO.	P _e ²	P _w	P _w ²	P _e ² - P _w ²
1	4339.7	18833.0	18563.9	
2	4348.7	18911.2	18485.7	
3	3602.3	12976.6	14420.3	
4	2978.8	8873.2	18523.7	
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.479$ (2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.479$

AOF = 0 $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 6.416$

Absolute Open Flow	6,416	Mscf @ 15.025	Angle of Slope °	45	Slope, n	1.000
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Remarks: WELL MADE 10.08 BBLs H2O DURING TEST
 *-STATIC BNP. CALCULATED BACK TO SURFACE PRESSURE
 ** - FLOWING BNP'S CALCULATED BACK TO SURFACE PRESSURE

Approved By Division	Conducted By: JOHN WEST ENGINEERING	Calculated By: JBM	Checked By: JBM
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