NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

d/s F. file

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-17-89	
Company: Oxy USA, Inc.		Connection: EPNG		RECEIVED AUG 31 '89 O. C. D. ARTESIA, OFFICE	
Pool: North Loving Atoka		Formation: ~~Strawn~~ Atoka			Unit
Completion Date: 8-14-89	Total Depth: 11,545	Plug Back TD: 11250	Elevation		Farm or Lease Name: Brantley "A"
Csg. Size: 5"	Wt.	d	Set At: 11250	Perforations: From 11056 To 11199	Well No.: 1
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10919	Perforations: From perf nipple To 10917	Unit: J / Sec.: 7 / Twp.: 23S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10919		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 185 @ 11127	Mean Annual Temp. °F	Baro. Press. – P_a		State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11127	11127	.605	.44	1.64	0		4.026	Flg.

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X 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						5705		Pkr.		48 hrs
1.	4	X .500	423	9.00	104	5620		Pkr.		1 hr.
2.	4	X .500	423	32.50	100	5425		Pkr.		1 hr.
3.	4	X .500	423	54.80	98	5210		Pkr.		1 hr.
4.	4	X .500	423	96.00	96	4942		Pkr.		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.182	62.66	436.2	.9602	1.286	1.028	94
2.	1.182	119.07	436.2	.9636	1.286	1.029	180
3.	1.182	154.61	436.2	.9653	1.286	1.029	233
4.	1.182	204.63	436.2	.9671	1.286	1.030	310
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.65	564	1.58	.946
2.	.65	560	1.57	.945
3.	.65	558	1.57	.945
4.	.65	556	1.56	.943
5.				

Gas Liquid Hydrocarbon Ratio: Dry gas Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.

Specific Gravity Separator Gas: .605 XXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: *670 P.S.I.A. Dry gas P.S.I.A.

Critical Temperature: *355 R R

P_c 5783.8 P_c^2 33452.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5699.7	32486.6	965.7
2		5513.0	30393.2	3059.1
3		5305.3	28146.2	5306.1
4		5048.8	25490.4	7961.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.202$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.333$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .723$

Absolute Open Flow: 723 Mcfd @ 15.025 Angle of Slope θ: 59.5 Slope, n: .590

Remarks: *corrected to 1.64% N2
no fluid produced during test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John West Engineering	JBM	JBM