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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

RECEIVED
OCD ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: OXY USA, INC.		Lease or Unit Name: LOGAN draw 4 FED COM	
Type Test: X Initial ___ Annual ___ Special		Test Date: 27-FEB-98	Well No.: 1
Completion Date: 19-FEB-98	Total Depth: 9247	Plug Back TD:	Elevation: 3418.5
Unit Ltr. - Sec. - TWP - Rge.: 4-17-27			
Csg. Size: 4 1/2	Wt.: 11.6	d: 4.0	Set At: 9247
Perforations: From: 8885 To: 8918		County: EDDY	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 8792
Perforations: From: To:		Pool:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE		Packer Set At: 8792	Formation: MORROW
Producing Thru: TUBING	Reservoir Temp. °F: 157	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2
Connection:			
L: 3902 H: 8902	Gg: .638	% CO_2: 1.05	% N_2: 0.35
% H_2S:	Prover:	Meter Run: 3.068	Taps: FLANGE

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2860		3656*	157	75
1.	3.068	X	0.6247	750	15	55	2840		3653	157	0.6
2.	3.068	X	0.6247	753	26	67	2815		3653	157	0.8
3.	3.068	X	0.6247	756	39	66	2780		3651	157	0.9
4.	3.068	X	0.6247	765	93	69	2750		3647	157	0.6
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.		107.0	763.2	1.0048	1.252	1.0797	1404
2.		141.14	766.2	0.9933	1.252	1.0727	1716
3.		173.20	769.2	0.9943	1.252	1.0736	2216
4.		269.02	778.2	0.9915	1.252	1.0727	3369
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	1.13	515	1.40	0.858
2.	1.14	527	1.43	0.869
3.	1.14	526	1.43	0.868
4.	1.15	529	1.44	0.869
5.				

Gas Liquid Hydrocarbon Ratio: 89.4 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 57 Deg.
Specific Gravity Separator Gas: 0.638 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.668
Critical Pressure: 675 P.S.I.A. 673 P.S.I.A.
Critical Temperature: 368 R 377 R

P_c 2839.4 P_c^2 8062

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	13441	2837	8049	14
2.	13438	2837	8047	15
3.	13425	2835	8038	24
4.	13396	2832	8019	43
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 189.1858$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 44.6601$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 151200$

Absolute Open Flow: 151200 Mcfd @ 15.025 Angle of Slope θ: 54.1 Slope, n: 0.725

Remarks: *BOTTOMHOLE DATA USED IN PLOT

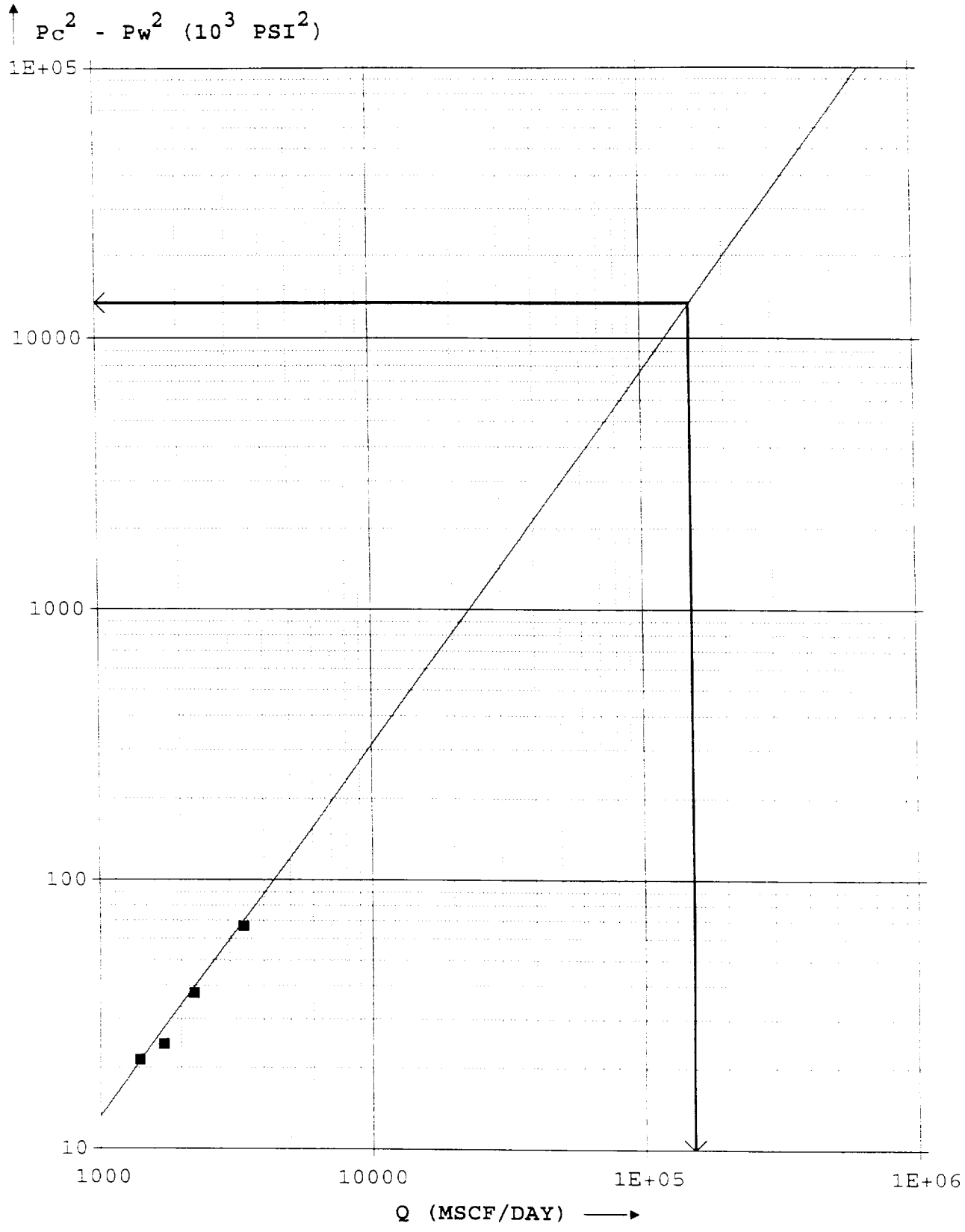
Approved By Division | Conducted By: Larry Davis | Calculated By: | Checked By:

BACK PRESSURE CURVE

CLIENT: **OXY USA, INC.**
WELL: **LOGAN DRAW 4 FED COMM #1**

Test Date: 27-FEB-1998
County: EDDY, NEW MEXICO

PLOT USES MEASURED BOTTOMHOLE PRESSURES



Well Tester: Larry Davis

SCHLUMBERGER Testing

Θ = 54.058 degrees
n = 0.7250
AOF = 1.512E+05 MSCF/DAY