STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special	RECEIVED 03-04-91		
Company: Oxy U.S.A.	Connection: Transwestern	APR - 8 1991	
Pool: S. Carlsbad Morrow	Formation: Morrow	O. C. D. ARTESIA, OFFICE	Unit
Completion Date: 02-25-91	Total Depth: 11,836	Plug Back TD: 11,510	Elevation
Farm or Lease Name: Tracy B			
Csg. Size	Wt.	d	Set At: 11,836
Perforations: From 11,205 To 11,501	Well No.: 1		
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 11,150
Perforations: From OPEN To END	Unit: I Sec.: 18 Twp.: 22 Rge.: 27		
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 11,150	County: Eddy	
Producing Thru	Reservoir Temp. °F: 186 @ 11,167	Mean Annual Temp. °F: 60	Baro. Press. – P_a
State: New Mexico			
L: *11,167	H: *11,167	G_g: .694	% CO_2: 11.58
% N_2: .94	% H_2S	Prover	Meter Run: 4.026
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							1330		PKR		5 days
1.	4	X	1.125	260	4.00	62	1240		PKR		1 hr.
2.	4	X	1.125	260	8.50	63	1150		PKR		1 hr.
3.	4	X	1.125	260	16.00	63	1025		PKR		1 hr.
4.	4	X	1.125	260	32.00	63	895		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	6.031	33.06	273.2	.9981	1.200	1.025	245
2.	6.031	48.19	273.2	.9971	1.200	1.025	356
3.	6.031	66.12	273.2	.9971	1.200	1.025	489
4.	6.031	93.50	273.2	.9971	1.200	1.025	692
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.38	522	1.42	.952
2.	.38	523	1.42	.952
3.	.38	523	1.42	.952
4.	.38	523	1.42	.952
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .694 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: **716 P.S.I.A. ____ P.S.I.A.
Critical Temperature: **366 R ____ R

P_c 1343.2 P_c^2 1804.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1256.2	1578.0	226.2
2		1212.6	1470.4	333.8
3		1150.4	1323.4	480.8
4		1077.8	1161.7	642.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.808$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.756$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.907$

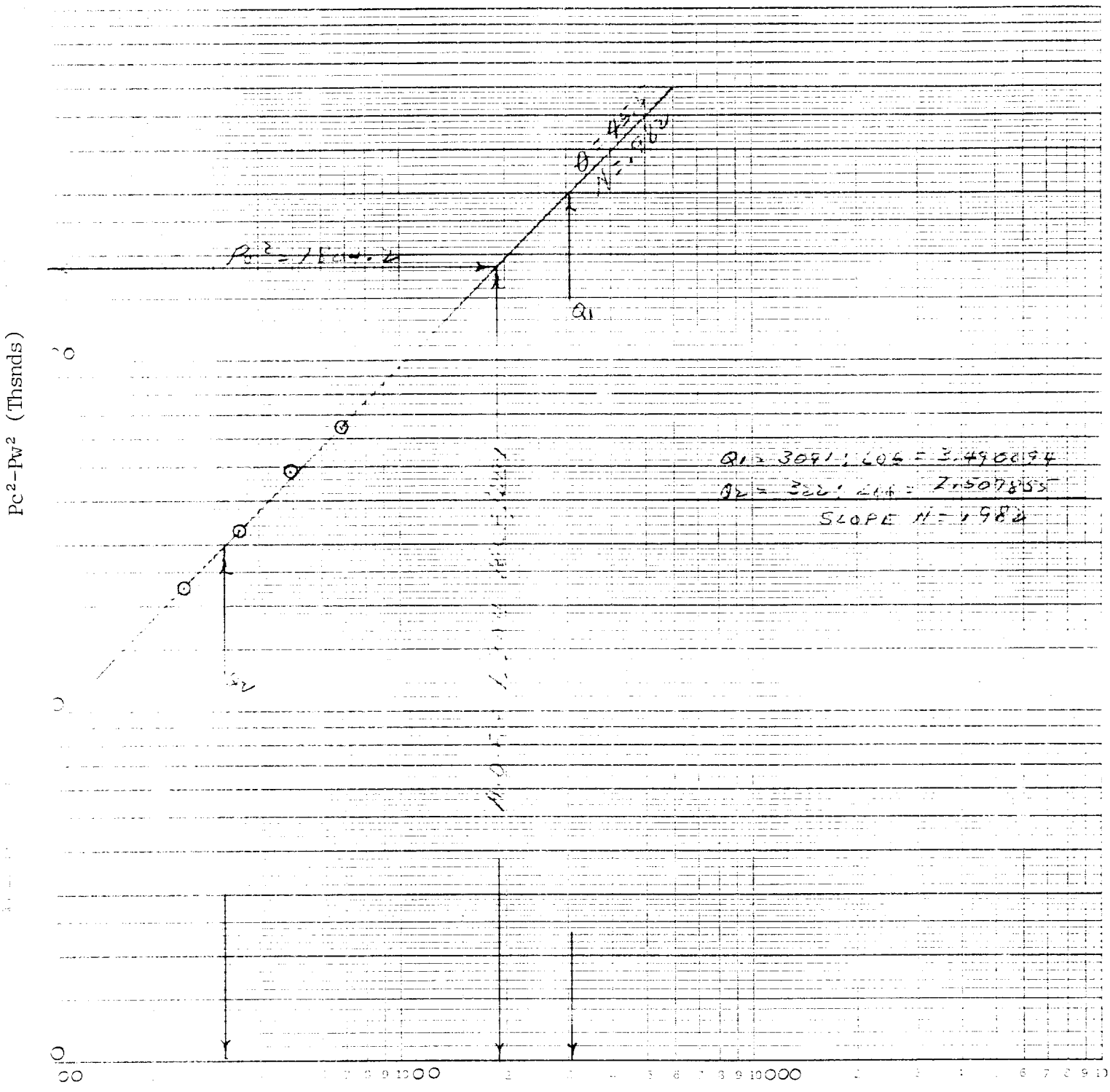
Absolute Open Flow: 1,907 Mcfd @ 15.025 Angle of Slope θ: 45.5 Slope, n: .982

Remarks: *=BHP Instrument set @ this depth
**=corrected to 11.58% CO2 & .94% N2
NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM

Oxy, U.S.A.
Tracy B, Well #1

Eddy County, New Mexico
03-04-91



PRO WELL TESTING & WIRELINE

FIELD DATA SHEET

COMPANY Oxy U.S.A. COMPANY REPRESENTATIVE Sid Nichols

LEASE NAME & NO. Tracy B #1 TEST DATE & TIME 03-04-91

COUNTY Eddy STATE New Mexico ELEVATION KB 20' FORMATION Morrow

UNIT SECTION TOWNSHIP RANGE

TEST TYPE X INITIAL ANNUAL SPECIAL TYPE WELL

COMPLETION DATE 02-25-91 TD@ 11,836' PBTD@ 11,510' PKR@ 11,150'

CONNECTION Transwestern METER RUN 4.026 TAPS Flange

CASING SIZE WT. DIA. SET@

TUBING SIZE 2 7/8 WT. 6.5# DIA. SET@

PERFORATIONS FROM 11,205' TO 11,501'

PRODUCING THRU Tubing

TIME DATE	ELAP. HR	TBG. PRES	CASING PRES	W/H TEMP	METER OR PROVER PRES	DIFF	TEMP	ORIF. SIZE	CHOKE SIZE 645	MCFD	REMARKS
11:00 AM	120	1330	PKR					1.125			
12:00PM	.00	1330	PKR		260	2"	64°	1.125	8/64	207	Start Test
12:15	.15	1270	PKR		260	3"	62°	1.125	8/64	223	
12:30	.30	1265	PKR		260	3"	62°	1.125	8/64	223	
12:45	.45	1255	PKR		260	3"	62°	1.125	8/64	223	
1:00	1.00	1240	PKR		260	4"	62°	1.125	8/64	257	End Rate I
1:15	1.15	1205	PKR		260	9"	62°	1.125	10/64	386	
1:30	1.30	1185	PKR		260	9"	63°	1.125	10/64	386	
1:45	1.45	1160	PKR		260	8.5"	63°	1.125	10/64	375	
2:00	2.00	1130	PKR		260	8.5"	63°	1.125	10/64	375	End Rate II
2:15	2.15	1105	PKR		260	17"	63°	1.125	14/64	531	
2:30	2.30	1075	PKR		260	17½"	63°	1.125	14/64	538	
2:45	2.45	1045	PKR		260	17"	63°	1.125	14/64	531	
3:00	3.00	1025	PKR		260	16"	63°	1.125	14/64	515	End Rate III
3:15	3.15	970	PKR		260	37"	63°	1.125	17/64	783	
3:30	3.30	940	PKR		260	34"	63°	1.125	17/64	751	
3:45	3.45	910	PKR		260	34"	63°	1.125	17/64	751	
4:00	4.00	895	PKR		260	32"	63°	1.125	17/64	728	End Rate IV

NO FLUID

Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
Attention: Mr. Merv Buecker
P. O. Box 791
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Tracy "B"
COMPANY: OXY USA
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 3/4/91 3:40PM
ANALYSIS DATE: 03-04-91
PRESSURE - PSIG 260.00
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ( )
SAMPLED BY: Merv Buecker
ANALYSIS BY: Rolland Perry

REMARKS: Eddy County New Mexico
Taken From The Meter Run.

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Oxygen	(O2)		
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	0.94	
Carbon Dioxide	(CO2)	11.58	
Methane	(C1)	84.22	
Ethane	(C2)	2.41	0.643
Propane	(C3)	0.42	0.114
I-Butane	(IC4)	0.06	0.021
N-Butane	(NC4)	0.07	0.023
I-Pentane	(IC5)	0.00	0.000
N-Pentane	(NC5)	0.07	0.023
Hexane	(C6)	0.23	0.094
Heptanes Plus	(C7+)	0.00	0.000
		100.00	0.918

BTU/CU.FT. - DRY	922	MOLECULAR WT	20.1008
AT 14.650 DRY	919		
AT 14.650 WET	903	26# GASOLINE -	0.125
AT 15.025 DRY	942		
AT 15.025 WET	926		
SPECIFIC GRAVITY -			
CALCULATED	0.694		
MEASURED	0.000		

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE ~~(Pc~~ or Pw) FORM C-122F

FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

COMPANY	OXY USA		LEASE :	TRACY B	WELL NO. :	1	DATE	3 4 91
UNIT			SECTION :		TWNSHP :		RANGE :	
L		11167	H :	11167	L/H :	1	G/GMIX :	0.6940
			CO2 :	11.58	N2 :	0.94	H2S :	
			GH :	7749.9	PCR :	716	TCR :	366

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	645.7	645.7	645.7	645.7	645.7	645.7	645.7	645.7
3	T=(Tw+Ts/2)	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8
4	Z (EST.)	0.890	0.841	0.832	0.845	0.837	0.850	0.843	0.856
5	TZ	525	496	491	498	494	501	497	505
6	GH/TZ	14.768	15.631	15.789	15.553	15.696	15.460	15.579	15.348
7	eS(TABLE XIV)	1.740	1.797	1.808	1.792	1.801	1.786	1.794	1.778
8	Pf or Ps	1684.2	1684.2	1623.2	1623.2	1537.2	1537.2	1437.2	1437.2
9	Pf2 or Ps2	2836.5	2836.5	2634.8	2634.8	2363.0	2363.0	2065.5	2065.5
10	Pc2=Pf/eS or Pw2=Ps2/eS	1630.3	1578.4	1457.5	1470.4	1311.7	1323.3	1151.6	1161.7
11	Pc or Pw	1277	1256	1207	1213	1145	1150	1073	1078
12	P=(Pw+Ps/2)or(Pc+Pf/2)	1481	1470	1415	1418	1341	1344	1255	1258
13	Pr=(P/Pcr)	2.07	2.05	1.98	1.98	1.87	1.88	1.75	1.76
14	Tr(T/Tcr)	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
15	Z (TABLE XI)	0.841	0.841	0.845	0.845	0.850	0.850	0.856	0.856

PW 1 : 1256.4 PW 2 : 1212.6 PW 3 : 1150.4 PW 4 : 1077.8