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

State of New Mexico
Energy, Minerals and Natural Resources Departm

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: PHILLIPS PETROLEUM COMPANY		Lease or Unit Name: SIMS	
Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 11-24-93	Well No.: 10
Completion Date: 11-15-93	Total Depth: 8107	Plug Back TD: 8045	Elevation: 3317.5' GR	Unit Ltr. - Sec. - TWP - Rge.: 24 - 22 - 37

Csg. Size	Wt.	d	Set At	Perforations: From	To	County
5½	54.5		8107	6015	6089	LEA

Tbg. Size	Wt.	d	Set At	Perforations: From	To	Pool
2-3/8	4.7	1.995	5931			TUBB

Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE	Packer Set At: 5931	Formation: TUBB
Producing Thru: TBG / Reservoir Temp. °F: / Mean Annual Temp. °F: 60	Baro, Press - P_a: 13.2	Connection: GPM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5931	5931	.736	1.44	2.09			4.026	FLG

NO.	Prover Line Size X Orifice Size	Flow Data Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Data Press. p.s.i.g.	Tubing Data Temp. °F	Casing Data Press. p.s.i.g.	Casing Data Temp. °F	Duration of Flow
SI					518		PKR		24 HRS
1.	4 X 2.000	26	1.13	46	503		"		1 HR
2.	4 X 2.000	29	13.52	43	412		"		1 HR
3.	4 X 2.000	29	23.12	42	320		"		1 HR
4.	4 X 2.000	32	21.78	43	125		"		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, F pv.	Rate of Flow Q, Mcfd
1.	19.81	6.66	39.2	1.014	1.166	1.006	157
2.	19.81	23.89	42.2	1.017	1.166	1.006	565
3.	19.81	31.24	42.2	1.018	1.166	1.006	739
4.	19.81	31.38	45.2	1.017	1.166	1.006	742
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.05	506	1.28	.989
2.	.06	503	1.27	.988
3.	.06	502	1.27	.988
4.	.06	503	1.27	.988
5.				

Gas Liquid Hydrocarbon Ratio DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons DRY Deg.
Specific Gravity Separator Gas .736 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure *669 P.S.I.A. ______ P.S.I.A.
Critical Temperature *394 R ______ R

P_c 531.2 P_c^2 282.2

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		516.7	267.0	15.1
2.		433.9	188.3	93.9
3.		352.3	124.1	158.1
4.		181.2	32.9	249.3
5.				

1) $\dfrac{P_c^2}{P_c^2 - P_w^2} = $ 1.785

(2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = $ 1.456

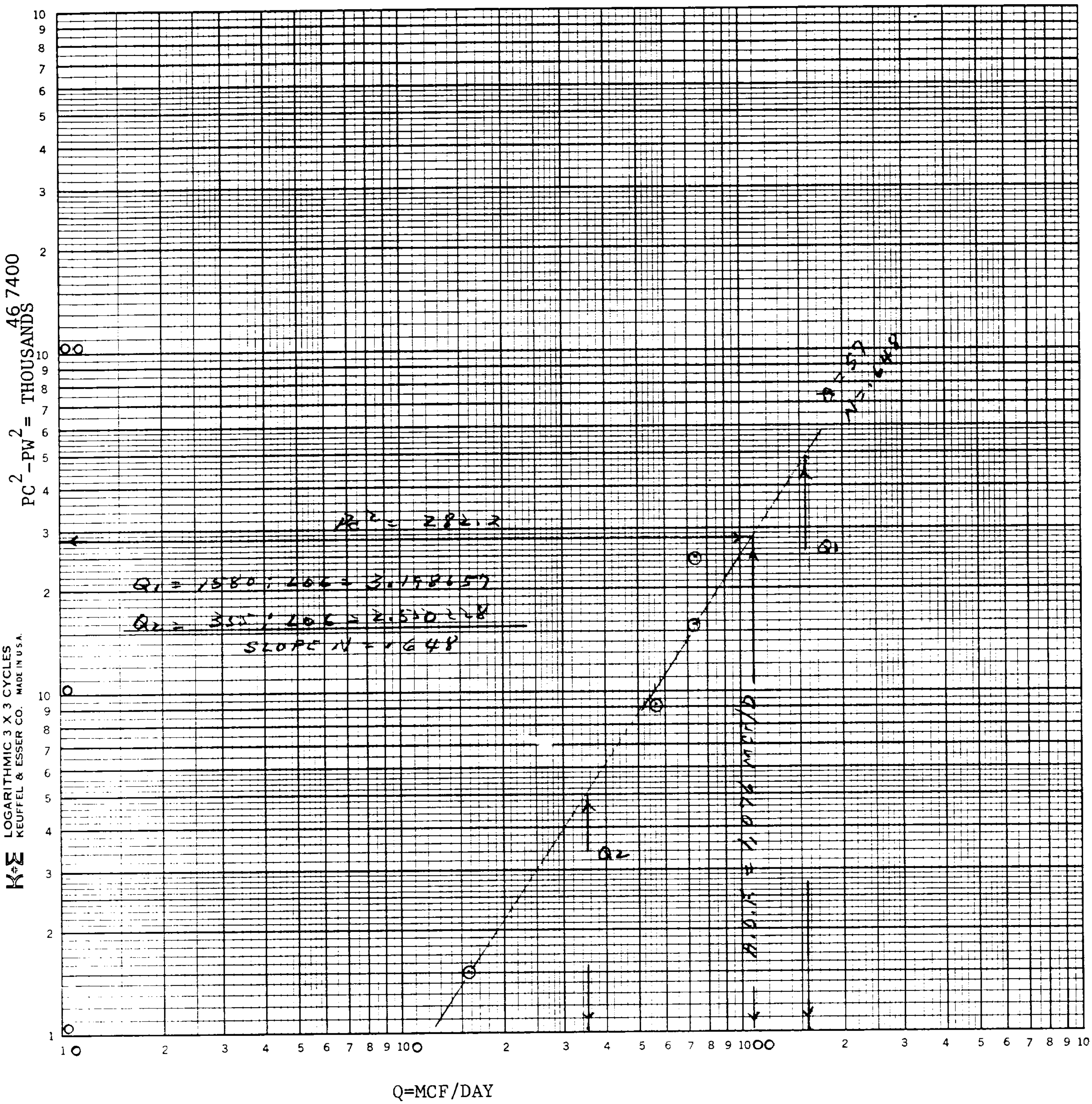
AOF = Q $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = $ 1,076

Absolute Open Flow 1,076 Mcfd @ 15.025 Angle of Slope Θ 57 Slope, n .648

Remarks: NO FLUID PRODUCED DURING TEST
* = CORRECTED TO 1.44% CO2 & 2.09 % N2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	WEST-TEST, INC.	B.M.	B.M.

PHILLIPS PETROLEUM COMPANY
SIMS NO. 10
24-22-37
LEA COUNTY, NEW MEXICO
NOVEMBER 24, 1993



COMPANY : PHILLIPS PETRO. LEASE : SIMS WELL NO. : 10
UNIT : SECTION : 24 TOWNSHIP : 22
L : 5931 H : 5931 L/H : 1 G/GMIX : 0.736
%CO2 : 1.44 %N2 : 2.09 H2S : DATE : 11 24 93
d : 1.995 Fr : 0.018231 GH : 4365.2 RANGE : 37

VOL 1 :	157	PSIA 1 :	516.2	RESV.TEMP	133.3
VOL 2 :	565	PSIA 2 :	425.2		
VOL 3 :	739	PSIA 3 :	333.2	SHUT-IN PR=	531.2
VOL 4 :	742	PSIA 4 :	138.2		

PCR : 669
TCR : 394

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.157	0.157	0.565	0.565	0.739	0.739	0.742	0.742
2 TW	534	534	534	534	534	534	534	534
3 Ts	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3
4 T	563.7	563.7	563.7	563.7	563.7	563.7	563.7	563.7
PR (est)	0.77		0.64		0.50		0.21	
5 Z(est)	0.888	0.880	0.903	0.896	0.919	0.912	0.952	0.946
6 TZ	500.6	496.3	509.2	505.2	518.0	514.2	536.7	533.2
7 GH/TZ	8.720	8.796	8.572	8.640	8.427	8.489	8.134	8.188
8 eS	1.387	1.391	1.379	1.383	1.372	1.375	1.357	1.359
9 1-e-S	0.279	0.281	0.275	0.277	0.271	0.273	0.263	0.264
10 Pt	516.2	516.2	425.2	425.2	333.2	333.2	138.2	138.2
11 Pt2 /1000	266.5	266.5	180.8	180.8	111.0	111.0	19.1	19.1
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.0182311
13 Fc=FrTZ	9.127	9.048	9.284	9.211	9.444	9.375	9.784	9.720
14 FcQm	1.43	1.42	5.25	5.20	6.98	6.93	7.26	7.21
15 L/H(FcQm)	2.1	2.0	27.5	27.1	48.7	48.0	52.7	52.0
16 Fw	0.572670	0.566924	7.564147	7.495513	13.19725	13.08609	13.85527	13.751806
17 Pw2	267.0	267.0	188.4	188.3	124.2	124.1	33.0	32.9
18 Ps2	370.3	371.4	259.8	260.3	170.4	170.6	44.7	44.7
19 Ps	608.5	609.4	509.7	510.2	412.8	413.1	211.4	211.3
20 P	562.4	562.8	467.4	467.7	373.0	373.1	174.8	174.8
21 Pr	0.84	0.84	0.70	0.70	0.56	0.56	0.26	0.26
22 Tr	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
23 Z	0.880	0.880	0.896	0.896	0.912	0.912	0.946	0.946

Pc = [illegible].2		Pc2 =	282.2
Pt2 =	266.5	Pw =	516.7
	180.8		433.9
	111.0		352.3
	19.1		181.2
Pc2-Pw2=	15.1	Pw2 =	267.0
	93.9		188.3
	158.1		124.1
	249.3		32.9
n =	0.648		
Pc2/(Pc2-Pw2) =	18.633		
	3.006		
	1.785		
	1.132		
[Pc2/Pc2-Pw2]n =	6.655		
	2.040		
	1.456		
	1.084		
AOF= Q	1.045		
	1.153		
	1.076		
	0.804		

FORM C122-D

Laboratory Services, Inc.

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: John West Engineering
Attention: Mr. Buz Thomason
412 N. Dal Paso
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Sims #10
COMPANY: Phillips Petroleum Co.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 11-24-93
ANALYSIS DATE: 11-26-93
PRESSURE - PSIG
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ( )
SAMPLED BY: West Engineering
ANALYSIS BY: Rolland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	2.09	
Carbon Dioxide	(CO2)	1.44	
Methane	(C1)	78.67	
Ethane	(C2)	9.39	2.497
Propane	(C3)	4.58	1.257
I-Butane	(IC4)	0.49	0.160
N-Butane	(NC4)	1.45	0.456
I-Pentane	(IC5)	0.35	0.126
N-Pentane	(NC5)	0.45	0.161
Hexane	(C6)	1.09	0.471
Heptanes Plus	(C7+)	0.00	0.000
		100.00	5.128

BTU/CU.FT. -	DRY	1223
AT 14.650	DRY	1219
AT 14.650	WET	1198
AT 15.025	DRY	1251
AT 15.025	WET	1229

MOLECULAR WT. 21.3252

26# GASOLINE - 0.910

SPECIFIC GRAVITY -
CALCULATED 0.736
MEASURED