NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

FEB 23 1981

O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special

Test Date: 1-20-81

Company: PERRY R. BASS

Connection: AIR

Pool: EAST CARLSBAD

Formation: ATOKA

Unit: C

Completion Date: 1-17-81

Total Depth: 12108

Plug Back T.D.: 11450

Elevation: 3131 GL

Farm or Lease Name: BIG EDDY UNIT

Csg. Size	Wt.	d	Set At	Perforations	Well No.
5½	17#		12024	From 10990 To 11372	# 65

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2 3/8	4.7 n/80		11420	From To	C	31	21s	28e

Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE GAS WELL

Packer Set At: 10,850

County: EDDY

Producing Thru: TUBING

Reservoir Temp. °F: 183 @ 10850

Mean Annual Temp. °F: 60°

Baro. Press. – P_a: 13.2

State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10919	10919	.5992	.891	1.390			4"	FLANGE

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					1720				72 hrs.
1.	4 X .500	440	2.0	58	1660				45 min.
2.	4 X 1.000	440	2.0	49	1545				1 hr.
3.	4 X 1.000	450	7.0	39	1220				1 hr.
4.	4 X 1.000	454	12.0	50	710				1 hr.
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	1.182	30.11	453.2	1.002	1.292	1.041	48
2	4.753	30.11	453.2	1.011	1.292	1.044	195
3	4.753	56.94	463.2	1.021	1.292	1.049	375
4	4.753	74.88	467.2	1.010	1.292	1.045	485
5							

NO.	P_r	Temp. °R	T_r	Z
1	.68	518	1.45	.923
2	.68	509	1.42	.917
3	.69	499	1.39	.909
4	.70	510	1.42	.915
5				

Gas Liquid Hydrocarbon Ratio: dry Mcf/Bbl.

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

Specific Gravity Separator Gas: .5992 XXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: 671 P.S.I.A. P.S.I.A.

Critical Temperature: 358 R R

P_c* 1779.1 P_c^2 3165.1

NO	BHP	P_w	P_w^2	$P_c^2 - P_w^2$
1	2186.2	1707.8	2916.5	248.6
2	2018.2	1578.4	2491.3	673.8
3	1576.2	1240.0	1537.7	1627.4
4	881.2	702.4	493.3	2671.8
5	2280.2	S.I.P.		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.185$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.114$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .540$

Absolute Open Flow: 540 Mcfd @ 15.025

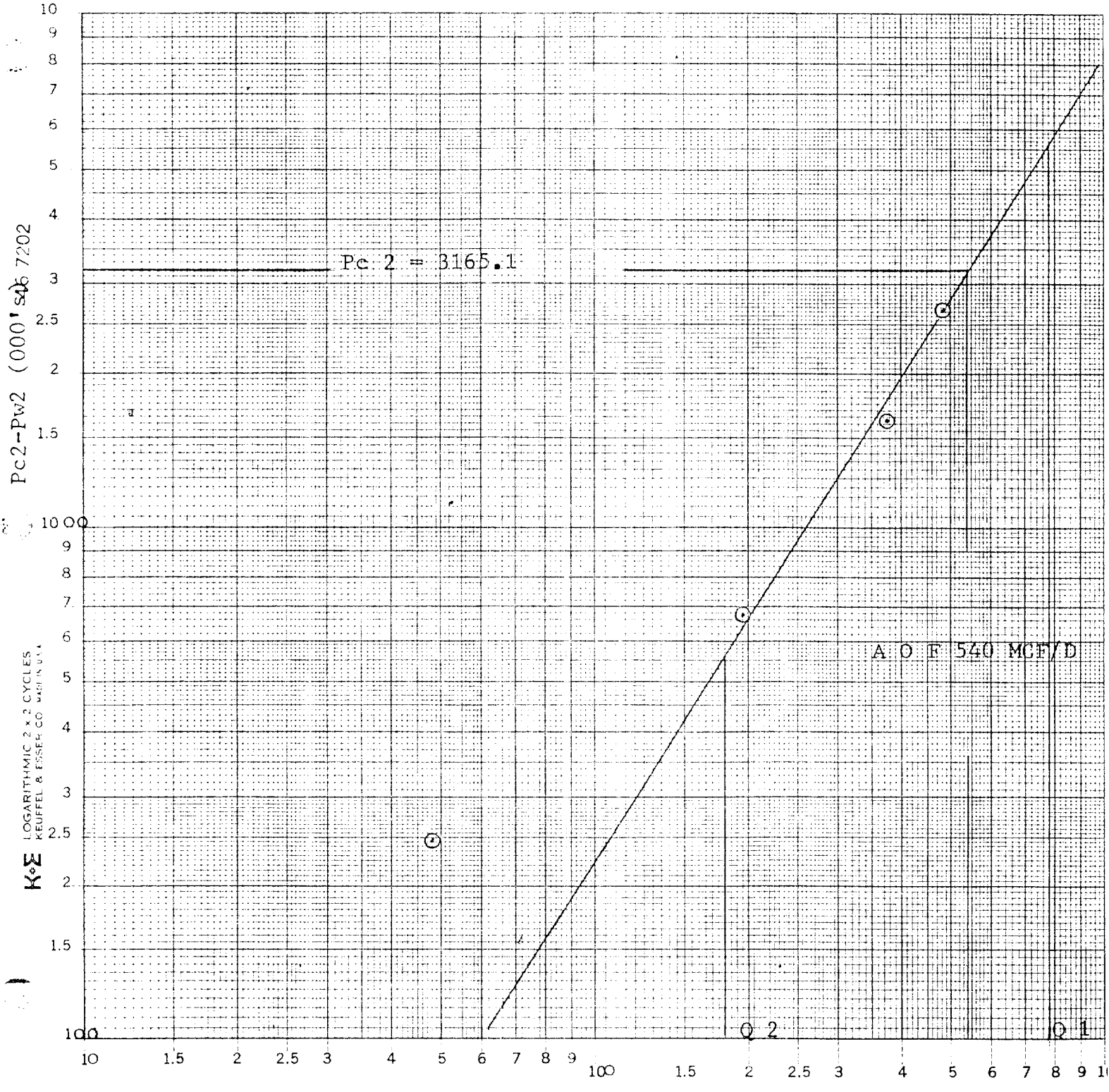
Angle of Slope θ: 57.5

Slope, n: .637

Remarks: * CALCULATED FROM BOTTOM HOLE PRESSURE TAKEN AT 10,919 feet.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DAVIS SERVICES INC.	RICK PAGAN	

COMPANY : PERRY R. BASS
LEASE : BIG EDDY UN
WELL NO. : # 65
UNIT : C /sec.31/twp.21s/rge.28e
COUNTY : EDDY
STATE : NEW MEXICO
DATE : JANUARY 20,1981



Q 1= 780; LOG OF Q 1= 2.892095
Q 2= 180; LOG OF Q 2= 2.255273

N = .637
θ = 57.5°