C-122 well file

Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
DEC 15 1972
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-2-72	
Company: DEPCO, Inc.		Connection			Unit
Pool: ~~Undesignated Penn~~ Wildcat Atoka		Formation: Penn			
Completion Date: 11-2-72	Total Depth: 11,110		Plug Back TD: 10,835	Elevation: 3562 Gr	Farm or Lease Name: Conoco State Com.
Csg. Size: 4 1/2	Wt.: 11.6	d	Set At: 10,881	Perforations: From 10,308 To 10,316	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d	Set At: 10,308	Perforations: From To	Unit: K Sec.: 15 Twp.: 17S Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,264		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 173		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: 10,312	H: 10,312	Gg: 0.674	% CO_2:	% N_2:	% H_2S: .12
Prover:	Meter Run: 3	Taps: Flange			

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	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							2408	60			53
1.	3	x	.750	465	8	102	2265	60			1
2.	3	x	.750	483	20	93	2180	60			1
3.	3	x	.750	493	39	91	2120	60			1
4	3	x	.750	500	73	91	1940	60			1
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	2.740	61.8	478	0.9619	1.218	1.046	208
2	2.740	99.6	496	0.9697	1.218	1.044	337
3	2.740	140.0	506	0.9715	1.218	1.047	475
4	2.740	193.0	513	0.9715	1.218	1.047	655
5							

NO.	P_t	Temp. °R	T_r	Z
1	.71	562	1.47	.914
2	.74	553	1.45	.917
3.	.76	551	1.44	.913
4	.77	551	1.44	.912
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .674 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. 669 P.S.I.A.
Critical Temperature 382 R 382 R

P_c 2421 P_c^2 5861

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2278	5190	671
2		2193	4810	1051
3		2133	4551	1310
4		1953	3815	2046
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.8646$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.8646$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1876 MCFPD

Absolute Open Flow 1876 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Transwestern P. L.	UCS Time Sharing Sys.	