

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

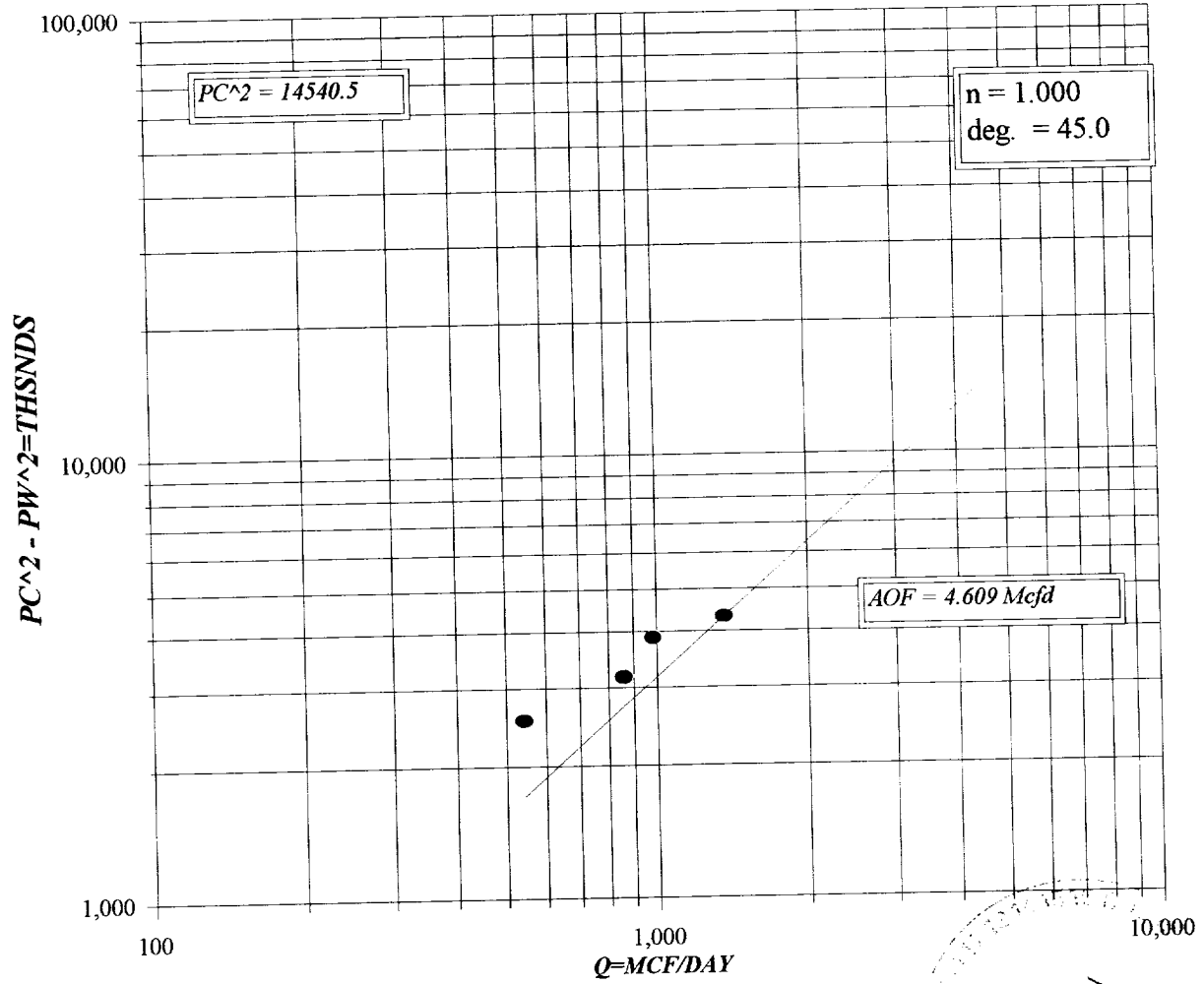
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator ECHO PROD.					Lease or Unit Name KENMITZ "10" STATE				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7/10/02		Well No. 1		
Completion Date 4/26/02		Total Depth 13650		Plug Back TD 13490		Elevation 4098 GL		Unit Ltr - Sec - TWP - Rge A 10 16S 34E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 13610	Perforations: From: 13288 To: 13364			County LEA		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 13200	Perforations: From: To:			Pool Kemnitz Morrow		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 13200			Formation Morrow		
Producing Thru Tubing		Reservoir Temp. °F 206		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 13200	H 13200	Gg 0.681	%CO ₂ 2.398	%N ₂ 0.647	%H ₂ S N/A	Prover N/A	Meter Run 2.067	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x 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
SI						3800	N/A	PKR	N/A
1		2.067 X 1.250	275	11.6	104	3450			
2		2.067 X 1.250	276	24	101	3358			
3		2.067 X 1.250	301	46.1	100	3250			
4		2.067 X 1.250	317	57.1	99	3180			
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q. Mcfd	
1								545	
2								865	
3	TOTAL		FLOW	METER				991	
4								1371	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 36.55 Mcf bbl.				
1					A.P.I. Gravity of Liquid Hydrocarbon 59 @ 60 Deg.				
2					Specific Gravity Separator Gas 0.681 XXXXXXXX				
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX GMIX=.758				
4					Critical Pressure 678 P.S.I.A. 658 P.S.I.A.				
5					Critical Temperature 378 R 401 R				
P _c 3813.2 P _{c2} 14540.5					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.362}{\quad}$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3.362}{\quad}$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{4.609}{\quad}$				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²					
1		3463.7	11996.9	2543.6					
2		3372.3	11372.7	3167.8					
3		3264.7	10658.3	3882.2					
4		3196.1	10215.1	4325.4					
5									
Absolute Open Flow 4.609 Mcfd @ 15.025					Angle of Slope (°): 45		Slope n: 1		
Remarks: * WELL MADE 4.3 BBLs OF 59 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	

ECHO PROD.
KENMITZ "10" ST. #1



FILED
HARRIS
OCT 11 1977

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NEW MEXICO G.O.R./G. MIX

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NO. OF BBLs PRODUCED = 4.3

API GRAVITY @ 60 DEG. = 59.0

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SPECIFIC GRAVITY OF GAS = 0.6810

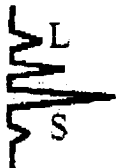
XX

TOTAL GAS PRODUCED = 157

G.O.R. = 36.550

G.MIX = 0.758

07.10.10



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION: Kemnitz 10 #1
COMPANY: Echo Prod.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 7/10/02
ANALYSIS DATE: 7/11/02
PRESSURE - PSIG 277
SAMPLE TEMP. °F 99
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: B. Pena
ANALYSIS BY: Vickie Biggs

REMARKS: Sample taken @ the meter run.

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.647	
Carbon Dioxide (CO2)	2.393	
Methane (C1)	84.843	
Ethane (C2)	7.158	1.910
Propane (C3)	2.789	0.767
i-Butane (IC4)	0.444	0.145
N-Butane (NC4)	0.677	0.213
i-Pentane (IC5)	0.201	0.073
N-Pentane (NC5)	0.177	0.064
Hexane Plus (C6+)	0.871	0.291
	100.000	8.468

BTU/CU.FT. - DRY 1187
AT 14.650 DRY 1184
AT 14.650 WET 1114
AT 14.73 DRY 1140
AT 14.73 WET 1120

MOLECULAR WT. 19.7704

SPECIFIC GRAVITY -
CALCULATED 0.681
MEASURED