

Laboratory Services, Inc.1331 Tasker Drive
Hobbs, New Mexico 88240

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

SAMPLE Meter Run
IDENTIFICATION: Southern Cross 29 #1
COMPANY: Penwell Energy
LEASE:
PLANT:

"16" State
JAB

SAMPLE DATA: DATE SAMPLED: 6/17/98
ANALYSIS DATE: 6/17/98
PRESSURE - PSIG 200
SAMPLE TEMP. °F 70
ATMOS. TEMP. °F
REMARKS: API Gravity of Oil @ 60° F = 61.8

GAS (XX) LIQUID ()
SAMPLED BY: Ben Pena
ANALYSIS BY: Vickie Walker

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.749	
Carbon Dioxide (CO2)	0.112	
Methane (C1)	90.871	
Ethane (C2)	5.031	1.342
Propane (C3)	1.655	0.455
I-Butane (IC4)	0.282	0.092
N-Butane (NC4)	0.530	0.167
I-Pentane (IC5)	0.194	0.071
N-Pentane (NC5)	0.172	0.062
Hexane Plus (C6+)	0.404	0.166
	100.000	2.355

BTU/CU.FT. - DRY 1109
AT 14.650 DRY 1105
AT 14.650 WET 1086
AT 14.73 DRY 1111
AT 14.73 WET 1092

MOLECULAR WT. 18.1616

SPECIFIC GRAVITY -
CALCULATED 0.627
MEASURED

O COMPANY : PENWELL LEASE : SO. CROSS 16 ST. WELL NO. : 1 - || Pc = 1765.2 Pc2 = 3115.9 * ||
UNIT : SECTIC 16 TOWNSHIP : 18 * ||
L : 7721 H : 7721 L/H : 1 G/GMIX : 0.767 Pt2 = 37.3 Pw = 193.7 * ||
%CO2 : 0.112 %N2 : 0.749 H2S : DATE : 6 16 98 0.0 ERR * ||
d : 1.995 Fr : 0.018231 GH : 5922.0 RANGE : 24 0.0 ERR * ||
===== 0.0 ERR * ||

VOL 1 : 78 PSIA 1 : 193.2 RESV.TEMP 151.2 Pc2-Pw2= 3078.4 Pw2 = 37.5 * ||
VOL 2 : PSIA 2 : ERR ERR * ||
VOL 3 : PSIA 3 : SHUT-IN PR= 1765.2 ERR ERR * ||
VOL 4 : PSIA 4 : ERR ERR * ||
PCR : 667 n = 1.000 * ||
TCR : 411 * ||

LINE	RATE 1		RATE 2		RATE 3		RATE 4		Pc2/(Pc2-Pw2) =	ERR	ERR	ERR
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND				
1 QM	0.078	0.078	0.000	0.000	0.000	0.000	0.000	0.000	[Pc2/Pc2-Pw2]n =	1.012	ERR	ERR
2 TW	534	534	534	534	534	534	534	534				
3 Ts	611.2	611.2	611.2	611.2	611.2	611.2	611.2	611.2				
4 T	572.6	572.6	572.6	572.6	572.6	572.6	572.6	572.6				
PR (est)	0.29		0.00		0.00		0.00		AOF= Q	0.079	ERR	ERR
5 Z(est)	0.940	0.936	ERR	ERR	ERR	ERR	ERR	ERR				
6 TZ	538.1	535.7	ERR	ERR	ERR	ERR	ERR	ERR				
7 GH/TZ	11.006	11.055	ERR	ERR	ERR	ERR	ERR	ERR				
8 eS	1.511	1.514	ERR	ERR	ERR	ERR	ERR	ERR				
9 l-e-S	0.338	0.339	ERR	ERR	ERR	ERR	ERR	ERR				
10 Pt	193.2	193.2	0.0	0.0	0.0	0.0	0.0	0.0	FORM C122-D			
11 Pt2 /1000	37.3	37.3	0.0	0.0	0.0	0.0	0.0	0.0				
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231				
13 Fc=FrTZ	9.810	9.766	ERR	ERR	ERR	ERR	ERR	ERR				
14 FcQm	0.77	0.76	ERR	ERR	ERR	ERR	ERR	ERR				
15 L/H(FcQm)	0.6	0.6	ERR	ERR	ERR	ERR	ERR	ERR				
16 Fw	0.197978	0.196927	ERR	ERR	ERR	ERR	ERR	ERR				
17 Pw2	37.5	37.5	ERR	ERR	ERR	ERR	ERR	ERR				
18 Ps2	56.7	56.8	ERR	ERR	ERR	ERR	ERR	ERR				
19 Ps	238.1	238.3	ERR	ERR	ERR	ERR	ERR	ERR				
20 P	215.7	215.8	ERR	ERR	ERR	ERR	ERR	ERR				
21 Pr	0.32	0.32	ERR	ERR	ERR	ERR	ERR	ERR				
22 Tr	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39				
23 Z	0.936	0.935	ERR	ERR	ERR	ERR	ERR	ERR				