

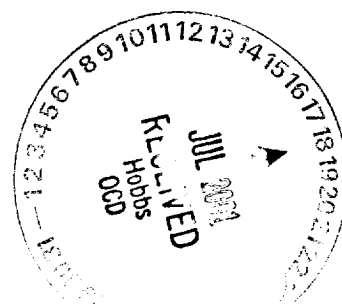
Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

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

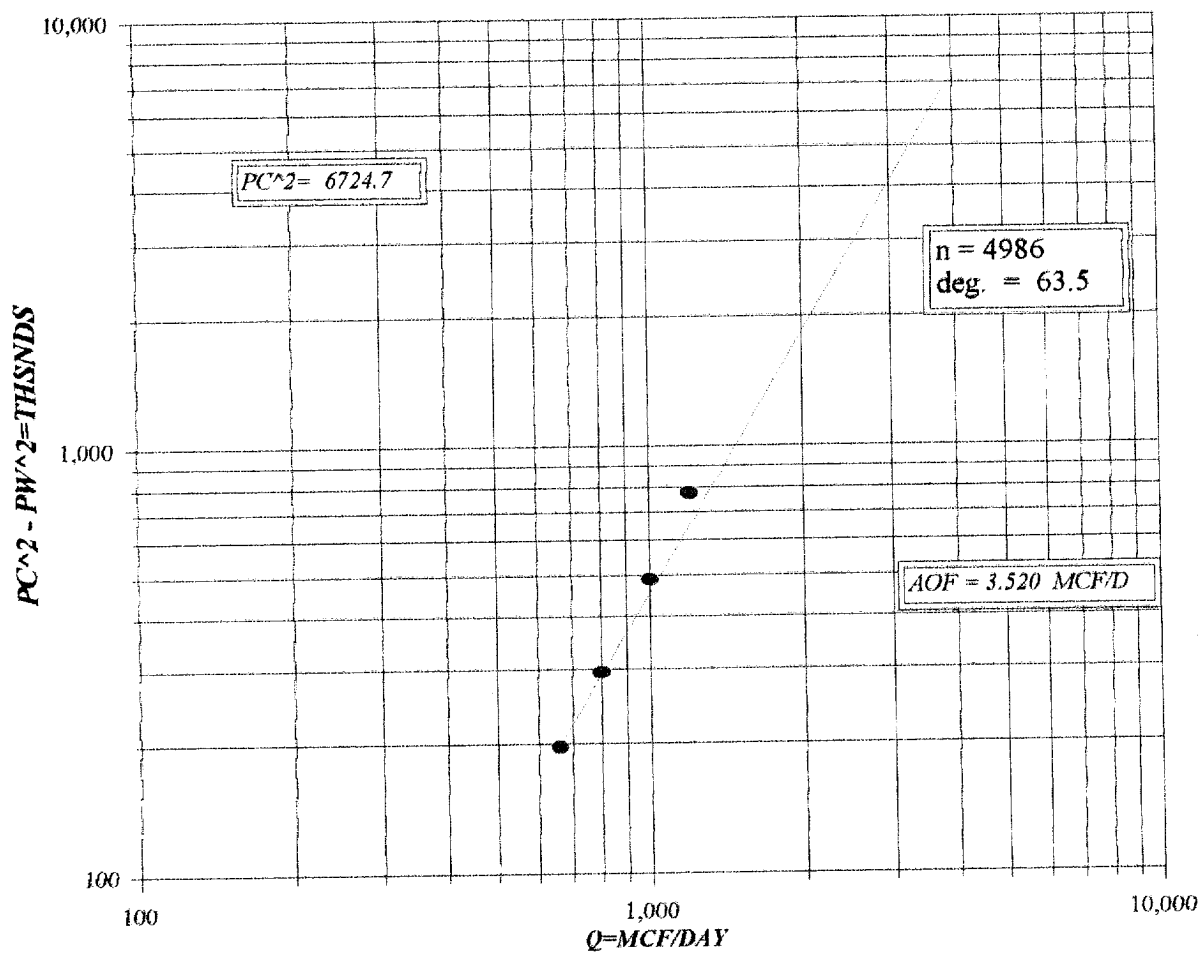
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator RICKS EXPLORATION					Lease or Unit Name BIG KAHUNA				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6/12/01		Well No. 1		
Completion Date		Total Depth		Plug Back TD		Elevation GL 3979		Unit Ltr - Sec - TWP - Rge 21 9S 37E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At		Perforations: From: 11751 To: 11758		County LEA		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11743		Perforations: From: To:		Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 11743		Formation ATOKA Morrow		
Producing Thru TUBING		Reservoir Temp. °F 191.4		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 11743	H 11743	Gg 0.767	%CO ₂ 0.635	%N ₂ 4.275	%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						2580	N/A	PKR	N/A
1		2.067 X 1.500	297	6.8	84	2540			1 HR.
2		2.067 X 1.500	309	10.4	80	2520			1 HR.
3		2.067 X 1.500	317	15.6	78	2480			1 HR.
4		2.067 X 1.500	325	22.4	82	2420			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 F _g	Super Compress Factor F _{pv}		Rate of Flow Q. Mcfd
1									660
2	GAS		VOLUMES	FROM	TOTAL	FLOW	METER		800
3									1000
4									1200
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 4.621 Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons 55.8 Deg.				
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas .767 / G. MIX=1.301 XXXXXXXX				
3					Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 664 P.S.I.A. 647 P.S.I.A.				
5					Critical Temperature 399 R. 525 R				
P _c 2593.2 P _{c2} 6724.7									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8.656}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.933}{\quad}$				
1	6518.8	2554.9	6527.4	197.3	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3520}{\quad}$				
2	6417.7	2535.7	6429.6	295.1					
3	6216	2497.1	6235.3	489.4					
4	5920.5	2438.8	5947.8	776.9					
5									
Absolute Open Flow 3520 Mcfd @ 15.025					Angle of Slope (°): 63.5		Slope n: 0.4986		
Remarks: * WELL MADE 33 BBLs OF 55.8 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	



RICKS EXPLORATION

BIG KAHUNA #1





UNIT : SECTION :21 TOWNSHIP :9S
 L : 11743 H : 11743 L/' 1 G/GMIX : 1.301
 %CO2 : 0.635 %N2 : 4.275 H2S : DATE :6/12/01
 d : 2.441 Fr :0.010763 GH : 15277.6 RANGE :37E

VOL 1 : 660 PSIA 1 : 2553.2 RESV.TEMP 191.4
 VOL 2 : 800 PSIA 2 : 2533.2
 VOL 3 : 1000 PSIA 3 : 2493.2 SHUT-IN PR= 2593.2
 VOL 4 : 1200 PSIA 4 : 2433.2

PCR : 647
 TCR : 525

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.660	0.660	0.800	0.800	1.000	1.000	1.200	1.200
2 TW	534	534	534	534	534	534	534	534
3 Ts	651.4	651.4	651.4	651.4	651.4	651.4	651.4	651.4
4 T	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
PR (est)	3.95		3.92		3.85		3.76	
5 Z(est)	0.559	0.838	0.556	0.835	0.550	0.830	0.540	0.821
6 TZ	331.4	496.8	329.5	495.1	325.8	491.7	320.2	486.5
7 GH/TZ	46.101	30.750	46.363	30.857	46.897	31.073	47.717	31.405
8 eS	5.634	3.168	5.690	3.181	5.804	3.207	5.986	3.247
9 l-e-S	0.822	0.684	0.824	0.686	0.828	0.688	0.833	0.692
10 Pt	2553.2	2553.2	2533.2	2533.2	2493.2	2493.2	2433.2	2433.2
11 Pt2 /1000	6518.8	6518.8	6417.1	6417.1	6216.0	6216.0	5920.5	5920.5
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Pc=FrTZ	3.567	5.347	3.547	5.329	3.506	5.292	3.446	5.236
14 PcQm	2.35	3.53	2.84	4.26	3.51	5.29	4.14	6.28
15 L/H(PcQm)	5.5	12.5	8.1	18.2	12.3	28.0	17.1	39.5
16 Fw	4.558235	8.524293	6.635489	12.46081	10.17625	19.27126	14.24332	27.319331
17 Pw2	6523.4	6527.4	6423.7	6429.6	6226.2	6235.3	5934.7	5947.8
18 Ps2	36751.2	20679.4	36547.9	20451.1	36139.8	19994.6	35524.4	19311.5
19 Ps	6062.3	4547.5	6045.5	4522.3	6011.6	4471.5	5960.2	4394.5
20 P	4307.7	3550.3	4289.3	3527.7	4252.4	3482.4	4196.7	3413.8
21 Pr	6.66	5.49	6.63	5.45	6.57	5.38	6.49	5.28
22 Tr	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
23 Z	0.838	0.718	0.835	0.715	0.830	0.707	0.821	0.697

Pt2 = 6' Pw = 2554.9 *
 6411.1 2535.7 *
 6216.0 2497.1 *
 5920.5 2438.8 *

Pc2-Pw2= 197.3 Pw2 = 6527.4 *
 295.1 6429.6 *
 489.4 6235.3 *
 776.9 5947.8 *

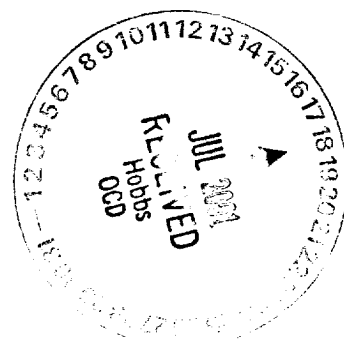
n = 0.499

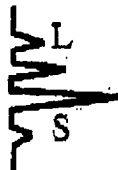
Pc2/(Pc2-Pw2) = 34.078 *
 22.786 *
 13.742 *
 8.656 *

[Pc2/Pc2-Pw2]n = 5.809 *
 4.753 *
 3.693 *
 2.933 *

AOF= Q 3.834 *
 3.802 *
 3.693 *
 3.520 *

FORM C122-D





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: Big Kahuna #1
COMPANY: Ricks Exploration
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED:
ANALYSIS DATE: 6/13/01
PRESSURE - PSIA 321
SAMPLE TEMP. °F 82
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Richard Hicks
ANALYSIS BY: Vickie Biggs

REMARKS: Sample taken @ the meter run.

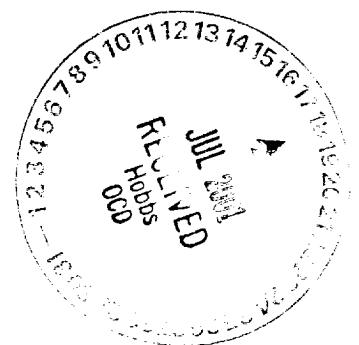
COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	4.275	
Carbon Dioxide (CO2)	0.635	
Methane (C1)	71.732	
Ethane (C2)	12.745	3.400
Propane (C3)	6.776	1.863
I-Butane (IC4)	0.890	0.290
N-Butane (NC4)	1.913	0.602
I-Pentane (IC5)	0.432	0.158
N-Pentane (NC5)	0.330	0.119
Hexane Plus (C6+)	0.272	0.116
	100.000	6.550

BTU/CU.FT. - DRY 1255
AT 14.650 DRY 1251
AT 14.650 WET 1230
AT 14.73 DRY 1258
AT 14.73 WET 1237

MOLECULAR WT. 22.2888

SPECIFIC GRAVITY -
CALCULATED 0.767
MEASURED



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

NO. OF BBLs PRODUCED = 33.0
API GRAVITY @ 60 DEG. = 55.8

.....
SPECIFIC GRAVITY OF GAS = 0.7670

XX

TOTAL GAS PRODUCED = 152

G.O.R. = 4.621

G.MIX = 1.301

