

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 10/30/2004		Well Number (API #) #372 (API # 30-039-27492)				
Completion Date 10/16/2004		Total Depth 3539'		Plug Back TD		Elevation 6618'		Unit Sec Twp Rng K 31 31N 04W	
Casing Size 5 1/2"		Weight 17#		Set At 3540'		Perforations: 3362' - 3446'		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3478'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Fruitland Coal		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"	Meter Run	Taps	

FLOW DATA					TUBING DATA		CASING DATA		
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				235	67	1190		0
1					225	67	1142		0.5 hr
2					225	61	1142		1.0 hr
3					195	61	1020		1.5 hrs
4					190	52	1020		2.0 hrs
5					190	52	970		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					202	1.0078	1.29	1.018	2568
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons _____	Deq.
2					Specific Gravity Separator _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1202		982	964324	480480	3.0070013	2.2834958

Absolute Open Flow 5863		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:

ROSA UNIT #382
BASIN FRUITLAND COAL

Location:

SHL: 95' FSL and 1415' FEL
SW/4 SE/4 Sec 12(O), T31N, R05W

BHL: 1093' FSL and 1843' FEL
SW/4 SE/4 Sec 12(O), T31N, R05W
Rio Arriba, New Mexico

Elevation: 6671' GR
API # 30-039-29364

Spud date: 9/20/05
Completed: 10/07/05
1st Delivered: 11/02/05

Landed 11 jis 9-5/8", 36#, K-55, STC csg @ 324'.
Cemented with 255 sx cnt

TIW liner hanger.
TOL @ 3001'

Landed 112 jis of 2-3/8", 4.7#, J-55, EUE, 8rd tbg as follows:
shoe on bottom, 1 jt 2-3/8" tbg, SN @ 3208', 111 jis 2-3/8"
tbg. Landed @ 3640'

TD @ 4415' TMD
@ 3492' TVD

Landed 94 jis 7", 23#, K-55, LT&C
csg @ 3645' TMD (3472' TVD).
Float @ 3605'. Cemented with 600 sx
cnt.

Landed 33 jis 4-1/2", 11.6# J-55, LT&C csg at 4415' MD.
Total liner = 1413.29'. Could not set liner, land on bottom
and pack off. Did not cement

Top	Depth
Ojo Alamo	2867'
Kirtland	2976'
Fruitland	3320'
Base of Coal	3497'

Hole Size	Casing	Cement	Volume	Top of CMT
12-1/4"	9-5/8", 36#	255 sx	354 cu ft.	surface
8-3/4"	7", 23#	600 sx	1144 cu ft.	surface
6-1/4"	4-1/2", 11.6#	Did Not Cmt	N/A	N/A