Submit 3 Copies To Appropriate District	State of New M	lexico	Form C-103		
Office District I	Energy, Minerals and Natural Resources		May 27, 2004		
1625 N. French Dr , Hobbs, NM 88240			WELL API NO.		
District II 1301 W Grand Ave , Artesia, NM 88210	OIL CONSERVATION	N I DI V I N I I N	30-045-34312		
<u>District III</u>	1220 South St. Fra	1.5	5. Indicate Type of Lease		
1000 Rio Brazos Rd, Aztec, NM 87410			STATE FEE X		
<u>District IV</u> 1220 S St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505		5. State Oil & Gas Lease No.		
87505					
	CES AND REPORTS ON WELL		7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH					
PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) F	L.	Royal Flush		
1. Type of Well: Oil Well X	Gas Well Other	3	3. Well Number #1		
2. Name of Operator			O. OGRID Number		
Manana Gas, Înc.			13931		
3. Address of Operator c/o Walsh Engineering			10. Pool name or Wildcat		
7415 East Main Street, Farmington, NM 87402			Basin Fruitland Coal		
4. Well Location					
	660'feet from theSou	th line and 10	945' feet from the West line		
Section 22	Township 29N Range		PM County San Juan		
Section 22	11. Elevation (Show whether Di		County San Juan		
	5428' GR	T, KKD, KI, OK, eic.)			
Pit or Below-grade Tank Application o					
Pit type Depth to Groundwa		water well Distan	ce from nearest surface water		
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbis; Constr	uction Material		
12. Check A	appropriate Box to Indicate N	Nature of Notice, Re	eport or Other Data		
1107107 07 111		1			
NOTICE OF IN			EQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	☐ ALTERING CASING ☐		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL	_		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT J	OB		
OTHER:		OTHER.			
	ated energtions (Clearly state all	OTHER:	ive pertinent dates, including estimated date		
			h wellbore diagram of proposed completion		
or recompletion.	ik). SEE KOLE 1103. For Multip	pie Completions. Attac	in wendore diagram of proposed completion		
or recompletion.					
Manana Gas Company has fra	ced the Fruitland Coal forma	ation as described o	n the attached Treatment Report.		
		onon ab abbonio da o	•		
			RCVD AUG 14'07		
			OIL CONS. DIV.		
			DIST. 3		
			V101. 0		
I hereby certify that the information of	hove is true and complete to the h	est of my knowledge a	nd belief. I further certify that any pit or below-		
grade tank has been/will be constructed or	closed according to NMOCD guidelines	□. a general nermit □ or :	an (attached) alternative OCD-approved plan .		
			an (analosa) and name of a approved plant		
SIGNATURE Tan C.	TITLE	Agent	DATE 8/8/07		
					
Type or print name Paul G. Thomps	on, P.E. E-mail address:	paul@walsheng.net	Telephone No. 505-327-4892		
For State Use Only	Dep	uty Oil & Gas In:			
# 1/20	•	District #3	AllG 1 5 ZUU (
APPROVED BY:	hueva TITLE		DATE		
Conditions of Approval (if any):	TITLE_		DATE		

FRACTURE TREATMENT REPORT

Operator: Manana Gas, Inc.

Date: 31-Jul-07

Field: Basin Fruitland Coal Location: 22/29N/11W County: San Juan State: NM

Stimulation Company: Blue Jet & Halliburton Supervisor: Paul Thompson

Stage #: 1/2

Lower Fruitland Coals

Sand on location:

Design: 60,000

Weight ticket:

144,080 Size/type:

20/40 Brady

Fluid on location:

No. of Tanks:

Strap:

20' Amount:

2400 Usable:

2160

Perforations:

Depth:

1545 - 49 & 1602 - 08

Total Holes: 40

PBTD:

1785'

Shots per foot:

4 spf

6

EHD:

0.34"

,

Breakdown:

Acid:

1,000 gal of 10% formic

Balls:

Pressure:

60 7/8" 1.3 sp.gr.

Rate: 6.2 BPM

The formation broke at 1903 psi. Very little ball action until the end of

acid, then a complete ball-off to 3500 psi. Recvd 60 balls with 37 hits

650 psi drop due to the acid

Stimulation:

ATP:

1250 psi

1727 - 1070

AIR: 18.2 BPM

MTP:

1525 psi

MIR: 20.3 BPM

			Sand Stage	Pressure	Rate	внтр
			pad	1504	20 3	2057
ISIP:	990		1 ppg	1449	20 1	2019
5 min:	964		2 ppg	1297	18 2	1919
10 min:	931		3 ppg	1202	16 1	1872
15 min:	905		4 ppg	1164	16 2	1862
		with SW	4 ppg	1157	16 3	1857
			l			

Job Complete at:

1255 hrs.

Date:

7/31/2007 Start flow back:

1845 hrs

Total Fluid Pumped:

840 bbls

Total Sand Pumped:

60,000#

Total Sand on Formation:

60,000#

Total Nitrogen Pumped:

NA

Notes:

All frac fluid was Bloomfield City water with 2% KCl and biocide and contained 20#/1000 gal guar gel, borate crosslinker, surfactant, enzyme and encapsulated breakers. Lowered the injection rate during the 2 and 3 ppg stages but the Nolte plot stayed fairly flat throughout the job. The last 10,000# of 20/40 sand was treated with Sand Wedge. The frac gradient based on the ISIP was 1.06 psi/ft.

FRACTURE TREATMENT REPORT

Well Name: Operator: Manana Gas, Inc. Royal Flush #1 Date: 31-Jul-07 Field: Basin Fruitland Coal San Juan State: NM Location: 22/29N/11W County: Stimulation Company: Blue Jet & Halliburton Supervisor: Paul Thompson Stage #: 2/2 **Upper Fruitland Coals** Sand on location: Weight ticket: Design: 84,000# 144,080 Size/type: 20/40 Brady Fluid on location: No. of Tanks: Strap: Amount: 1710 Usable: 1490 Perforations: Total Holes: 48 PBTD: Depth: 1440 - 44 & 1452 - 60' 1525 Frac Plug Shots per foot: EHD: 0.34" PT to 3500 - held OK 4 spf Breakdown: Acid: 1,000 gal of 10% formic The formation broke at 1986 psi Balls: 60 7/8" 13 sp.gr. Very little ball action until the end of acid, then a complete ball-off to Pressure: 1504 5,8 BPM 3500 psi. Knocked off balls. Rate: Stimulation: ATP: 1400 psi **AIR:** 18.7 BPM MTP: 1602 psi MIR: 20.5 BPM Sand Stage Pressure Rate BHTP pad 1571 20 5 2082 ISIP: 1073 1450 18 4 2013 1 ppg 5 min: 980 2 ppg 1396 18 4 1986 948 10 min: 3 ppg 1345 183 1972 15 min: 922 1976 4 ppg 1318 18.2 with SW 4 ppg 1312 183 1966 Job Complete at: 1625 Date: 7/31/2007 Start flow back: 1845 hrs hrs. **Total Fluid Pumped:** 1211 bbls **Total Sand Pumped:** 84,000# Total Sand on Formation: 84,000# **Total Nitrogen Pumped:** NA

Notes:

All frac fluid was Bloomfield City water with 2% KCl and biocide and contained 20#/1000 gal guar gel, borate crosslinker, surfactant, enzyme and encapsulated breakers. Lowered the injection rate during the 1 ppg stage but the Nolte plot stayed fairly flat throughout the job. The last 10,000# of 20/40 sand was treated with Sand Wedge. The frac gradient based on the ISIP was 1.18 psi/ft.