

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised February 10, 1994

Instructions on back
Submit to Appropriate District Office

State Lease - 6 Copies
Fee Lease - 5 Copies

OIL CONSERVATION DIVISION
PO BOX 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Manana Gas, Inc. c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402		² OGRID Number 13931
⁴ Property Code 33 546		³ API Number 30-043-32163
⁵ Property Name Rainbows End		⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
N	24	29N	11W		1008'	North	817'	West	San Juan

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
⁹ Proposed Pool 1 Basin Fruitland Coal					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5543'
¹⁶ Multiple No	¹⁷ Proposed Depth 1810 +/-	¹⁸ Formation Pictured Cliffs	¹⁹ Contractor	²⁰ Spud Date 3/15/04

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/feet	Setting Depth	Sacks of Cement	Estimated TOC
8-3/4"	7"	20#	120	30 sx (36 cu.ft.)	Surface
6-1/4"	4-1/2"	10.5#	1810	125 sx + 100 sx (258 cu.ft. + 118 cf)	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Manana Gas, Inc., proposes to drill a vertical well at the above described location and test the Basin Fruitland Coal formation. A 8-3/4" surface hole will be drilled to 120' where 7", 20# casing will be set and cemented to surface with 36 cu.ft. of neat cement. After WOC, a 2000 psi double ram or annular preventer will be installed and pressure tested to 600 psi. A 6-1/4" hole will be drilled with mud to approximately 1810'. Open hole logs will be run. 4-1/2" production casing will be run and cemented to surface with 258 cu.ft. of Cl "B" cement with 2% SMS and 1/4 #/sk Celloflake and 118 cu.ft. of neat cement. The Fruitland Coal formation will be selectively perforated and completed Ojo Alamo - 380'; Kirtland - 565'; Fruitland - 1400'; Pictured Cliffs - 1610'. The well will be connected to El Paso Field Services gathering system.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Paul C. Thompson*

Printed name: Paul C. Thompson

Title: Agent

Date:
02/12/04

Phone:
(505) 327-4892

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title: DEPUTY OIL & GAS INSPECTOR, DIST. #8

Approval Date: MAR 18 2004 Expiration Date: MAR 18 2005

Conditions of Approval

Attached ☐

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-25-32163	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 33566	⁵ Property Name RAINBOWS END	⁶ Well Number 1
⁷ OGRID No. 13931	⁸ Operator Name MANANA GAS, INC.	⁹ Elevation 5442.98

¹⁰ Surface Location

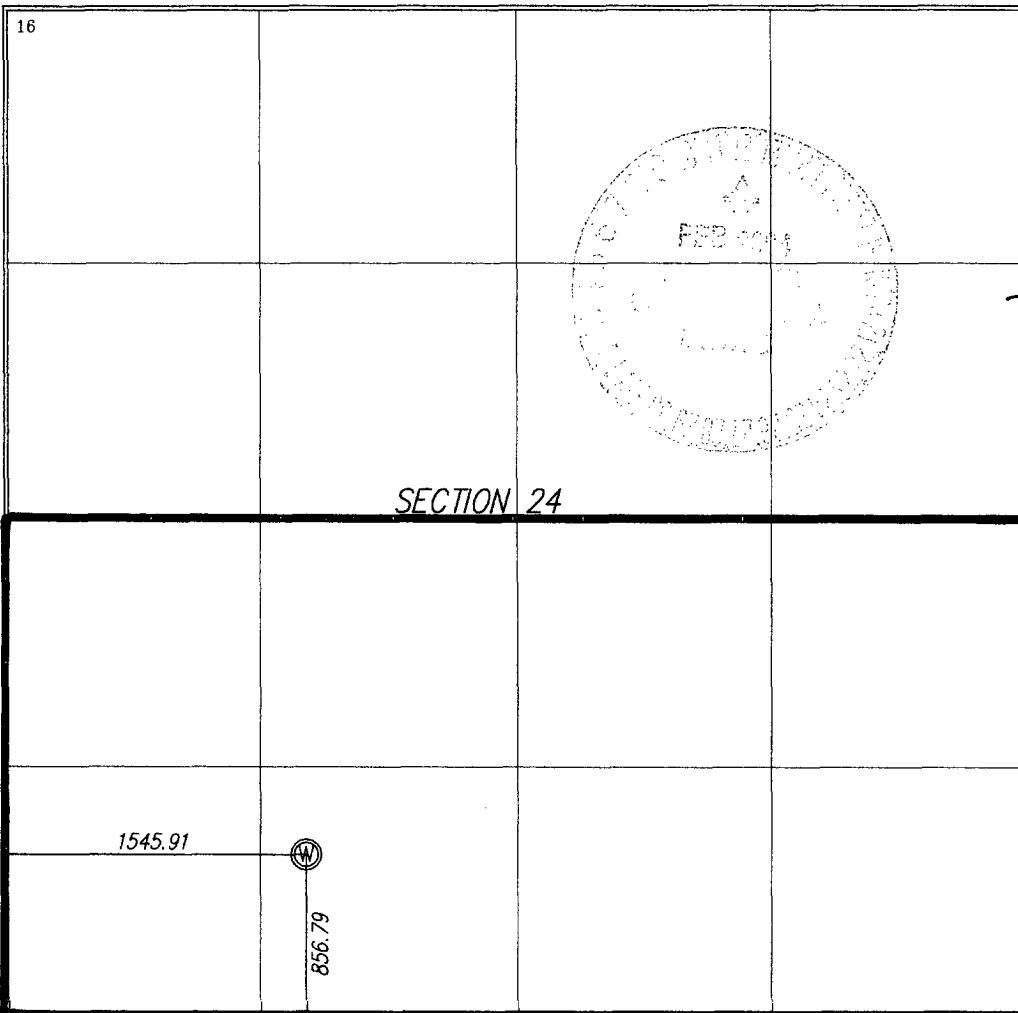
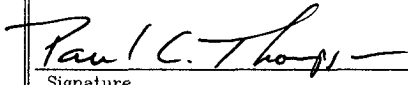

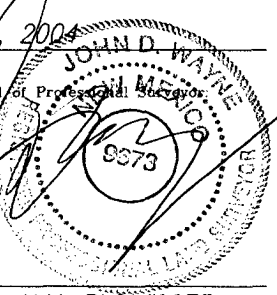
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	29N	11W		856.79	SOUTH	1545.91	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320 5/2	¹³ Joint or Infill Y	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div></div>	<div>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature PAUL C. THOMPSON Printed Name AGENT Title 2/12/04 Date</div>
	<div>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 26, 2004 Date of Survey  Signature and Seal of Professional Surveyor  Certificate Number N.M. PLS #9673</div>