

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Road, Aztec, NM 87410

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico

## Energy Minerals and Natural Resources

Form C-101

May 27, 2004

## Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address <b>Manana Gas, Inc. c/o Walsh Engineering</b> 7415 E. Main St., Farmington, NM 87402		OGRID Number <b>13931</b>
Property Code <b>33159</b>	Property Name <b>Crooked Seams</b>	APL Number <b>30 - 045 - 33818</b> Well No. <b>2</b>
Proposed Pool 1 <b>Basin Fruitland Coal</b>		Proposed Pool 2 <b>Aztec Pictured Cliffs</b>

## 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
A	14	30N	12W		420'	North	1090'	East	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

## Additional Well Information

Work Type Code <b>N</b>	Well Type Code <b>G</b>	Cable/Rotary <b>R</b>	Lease Type Code <b>P</b>	Ground Level Elevation <b>5681'</b>
Multiple <b>Y</b>	Proposed Depth <b>2160'</b>	Formation <b>Pictured Cliffs</b>	Contractor	Spud Date
Depth to Groundwater >50'		Distance from nearest fresh water well >500'		Distance from nearest surface water >1000' <b>2200'</b>
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 1250 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

## 21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8-3/4"	7"	20.0#	120'	30 sx (36 cu.ft.)	Surface
6-1/4"	4-1/2"	10.5#	2160'	215sx & 100sx	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 listed location and test the Fruitland Coal and Pictured Cliffs formations. An 8-3/4" surface hole will be drilled to approx. 120' with spud mud. 7", 20# casing will be set and cemented to surface with 30 sx (36 cu.ft.) of CI "B" with 3% CaCl<sub>2</sub> and 1/4#/sk celloflake. A double ram, 2000 psi rated BOP will be installed and pressure tested to 600 psi. A 6-1/4" hole will be drilled using a fresh water - polymer mud system to approx. 2160'. 4-1/2", 10.5# casing will be set and cemented to surface with 215 sx (443 cu.ft.) of CI "B" cement with 2% SMS, 1/4#/sk. celloflake and 5 #/sk gilsonite followed by 100 sx (118 cu.ft.) of CI "B" with 2% CaCl<sub>2</sub>, 1/4#/sk celloflake and 5 #/sk gilsonite. Open hole DIL and FDC/CNL/GR/SP logs will be run. Surveys will be run every 500'. The E/2 of Section 14 (320 acres) is dedicated to the Fruitland and the NE/4 is dedicated to the Pictured Cliffs. Formation tops: Ojo Alamo - 555', Kirtland - 630', FT -1630', FT Coal - 1925, PC - 1970'.

23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCDD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Paul C. Thompson, P.E.

Title: Agent

E-mail Address: paul@walsheng.net

Date: 6/22/06

Phone: (505) 327-4892

## OIL CONSERVATION DIVISION

Approved by:

Title:


Approval Date: JUN 23 2006

Expiration Date:

Conditions of Approval Attached ☐

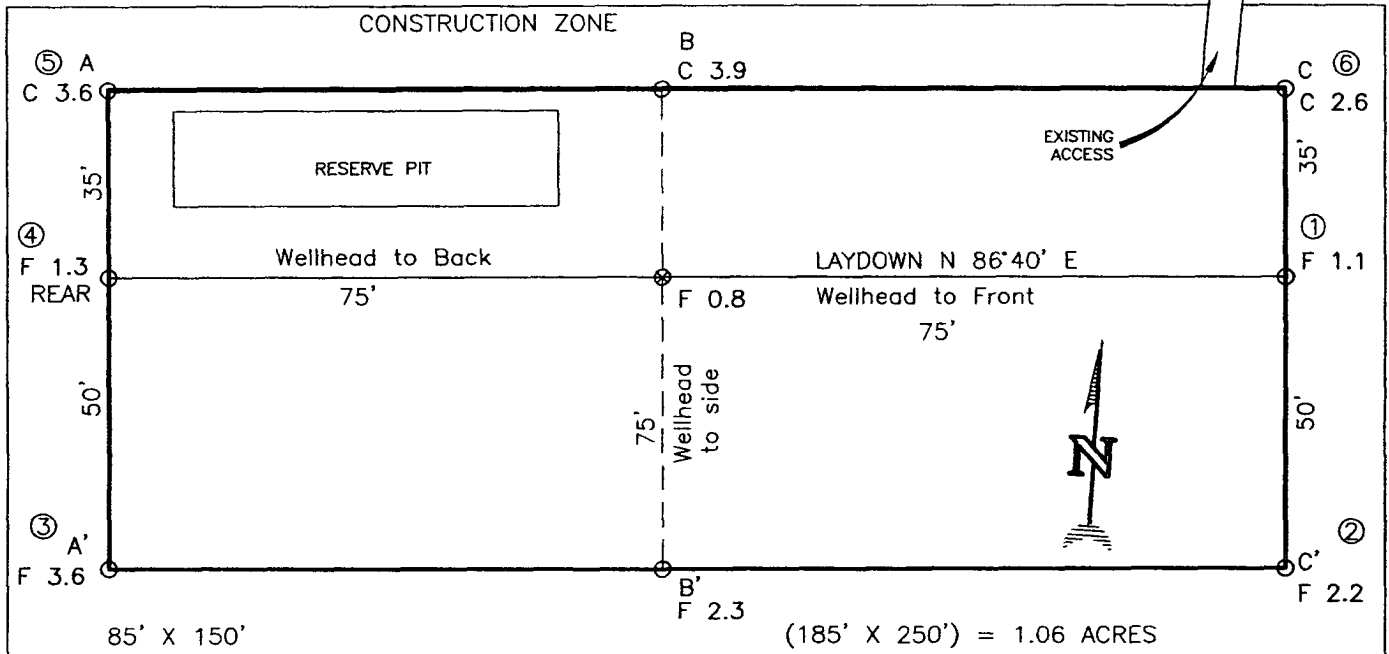
B

<div>16</div>	<div>FD. 3 1/4" BC. B.L.M.</div> <div>LAT: 36.81839° N. (NAD 83) LONG: 108.06244° W. (NAD 83)</div>	<div>420'</div> <div>1090'</div> <div>FD. 3 1/4" BC. B.L.M.</div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</div> <div><div>Paul C. Thompson - 6/22/06</div><div>SignatureDate</div><div>Paul C. Thompson, AGENT</div><div>Printed Name</div></div>
	<div>14</div>	<div>S 00-19-42 W 5313.4' (M)</div> <div>FD. 3 1/4" BC. 2001 LS 6159</div>	<div>18 SURVEYOR CERTIFICATION</div> <div>I hereby certify that the well location shown on this plot 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.</div> <div><div>MAY 11, 2006</div><div>Date of Survey</div><div>JOHNA VUKONICH</div><div>Signature and Seal of Registered Professional Surveyor</div><div>14831</div><div>130</div></div> <div>Certificate Number</div>

<p>16</p> <p>FD. 3 1/4" BC. B.L.M.</p> <p>LAT: 36.81839° N. (NAD 83) LONG: 108.06244° W. (NAD 83)</p>	<p>S 89-26-34 W 2598.9' (M)</p> <p>420'</p> <p>1090'</p> <p>FD. 3 1/4" BC. B.L.M.</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Paul C. Thompson</u> 6/22/06 Signature Date</p> <p><u>Paul C. Thompson, Agent</u> Printed Name</p>
<p>14</p>	<p>S 00-19-42 W 5313.4' (M)</p> <p>FD. 3 1/4" BC. 2001 LS 6159</p>	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plot 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.</p> <p>MAY 11, 2006 Date of Survey</p> <p><u>JOHN A. VUKONICH</u> Signature and Seal of Professional Surveyor</p> <p></p> <p>Certificate Number</p>

MANANA GAS INC.  
 CROOKED SEAMS No. 2, 420 FNL 1090 FEL  
 SECTION 14, T30N, R12W, N.M.P.M., SAN JUAN COUNTY, N.M.  
 GROUND ELEVATION: 5681' DATE: MAY 11, 2006

NAD 83  
 LAT. = 36.81839° N  
 LONG. = 108.06244° W

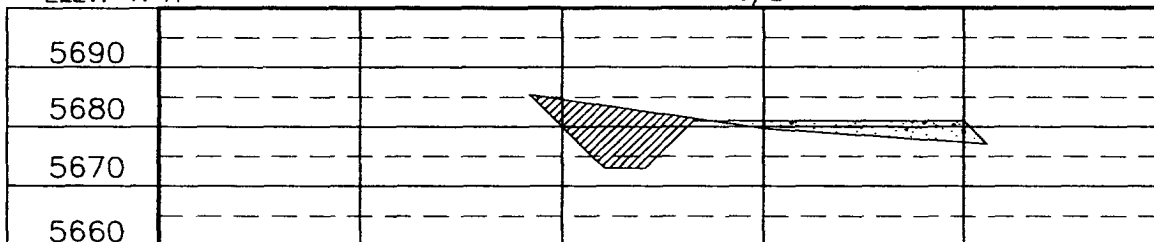


RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).  
 BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

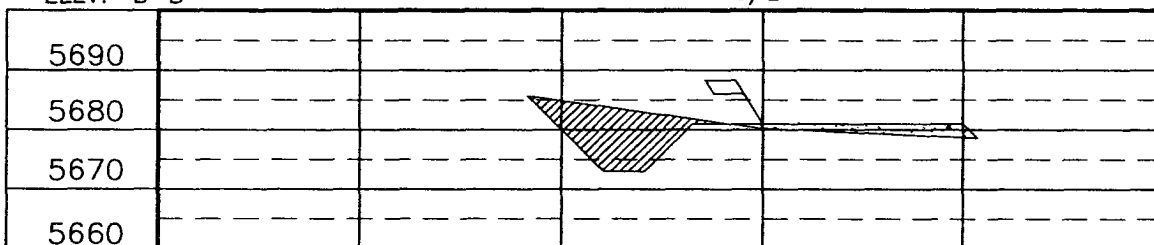
ELEV. A-A'

C/L



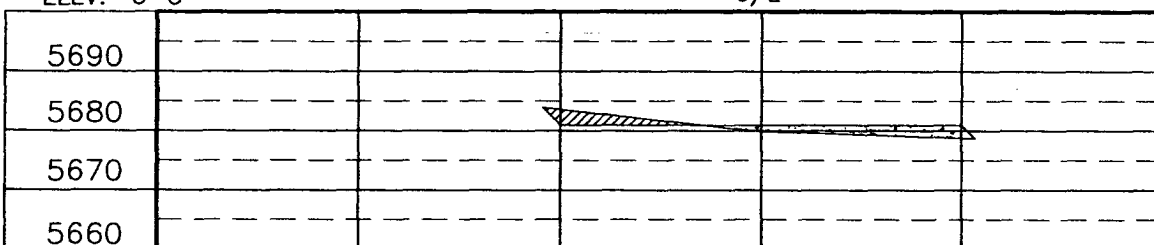
ELEV. B-B'

C/L



ELEV. C-C'

C/L



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION:	DATE:	REVISED BY:

**Daggett Enterprises, Inc.**  
 Surveying and Oil Field Services  
 P. O. Box 15088 • Farmington, NM 87401  
 Phone (505) 326-1772 • Fax (505) 326-6019  
 NEW MEXICO L.S. No. 14831  
 CADFILE: MG1001\_PL8  
 DATE: 06/06/06

DRAWN BY: G.V.  
 ROW#: MG1001