Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
May 27, 2004

WELL API NO. 30-045-22684
RCVD DEC 7'06
5. Indicate Type of Lease STATE ☐ FEE X
OIL CONS. DIV.
6. State Oil & Gas Lease No.
DIST. 3

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

7. Lease Name or Unit Agreement Name
Betty Hartman

1. Type of Well: ☐ Oil Well X Gas Well ☐ Other
8. Well Number #1

2. Name of Operator
Manana Gas, Inc.
9. OGRID Number
13931

3. Address of Operator c/o Walsh Engineering
7415 East Main Street, Farmington, NM 87402
10. Pool name or Wildcat
Basin Dakota

4. Well Location
Unit Letter P : 790' feet from the South line and 1245' feet from the East line
Section 14 Township 30N Range 12W NMPM County San Juan

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5535' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type_Workover____Depth to Groundwater_50'__Distance from nearest fresh water well_>500'__ Distance from nearest surface water_200'__

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume 100 bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:	☐		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Manana Gas Company plans to plug and abandon this well according to the attached procedure.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE Paul C. Thompson TITLE Agent DATE 12/5/06

Type or print name Paul C. Thompson, P.E. E-mail address: paul@walsheng.net Telephone No. 505-327-4892

For State Use Only

APPROVED BY: A. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC 07 2006

Conditions of Approval (if any): Bop's will be required

12/19/06

Walsh Engineering and Production

P & A Procedure for
Manana Gas Company
Betty Hartman #1

Location: SE/4 Sec 14 T30N R12W
San Juan County, NM

Date: December 5, 2006

Field: Basin Dakota
Surface: Fee
Minerals: Fee

Elev: GL 5535'
4-1/2" @ 6601'

Procedure:

1. Dig and line a small (12' X 12' X 6') workover pit. Move on location and rig up a completion rig. Hold a safety meeting and explain the procedure to the crew. Nipple down the tubinghead and nipple up the BOP.

2. Drop a standing valve in the tubing and pressure test the tubing to 1000 psi. If the tubing tests OK, pull the standing valve and continue with step #3. If the pressure test fails, TOH with the tubing to the fluid level and replace any bad joints.

3. Pick up additional joints of tubing and tag PBTD at 6550'.

4. **Plug #1 Dakota (6285 - 6650).** Spot a balanced plug with 25 sx (30 cu.ft.) of Type 5 cement with 2% $CaCl_2$ and 1/2 #/sk. Celloflake. POH to 5000' and WOC for three hours. TIH and tag cement top. TOH.

6600-5400 — Gallup Plug

5. Set a 4-1/2" cement retainer at approximately 3330'. **Plug #2 Mesa Verde 3500' - 3400'.** Attempt to pump 90 sx (106 cu.ft.) of Type 5 neat cement below the retainer and leave 50' (5 sx - 6 cu.ft.) above the retainer. Maximum injection pressure below the retainer is 2000 psi.

6. POH to 1868'. Load the hole and pressure test the 4-1/2" casing to 1000 psi.

7. **Plug #3 1718' - 1868'.** Spot a balanced plug from 50' below the Pictured Cliffs top to 50' above the Fruitland Coal top (1718' - 1868') with 15 sx (18 cu.ft.) of Type 5 neat cement with 2% CaCl2. WOC for three hours and tag cement top if pressure test in Step #6 was unsuccessful. POH to 526'.

8. **Plug #4 298' - 526'.** Spot a balanced plug from 50' below the Kirtland top to 50' above the Ojo Alamo top (298' - 526') with 25 sx (30 cu.ft.) of neat cement. WOC for three hours and tag cement top if pressure test in Step #6 was unsuccessful. TOH.

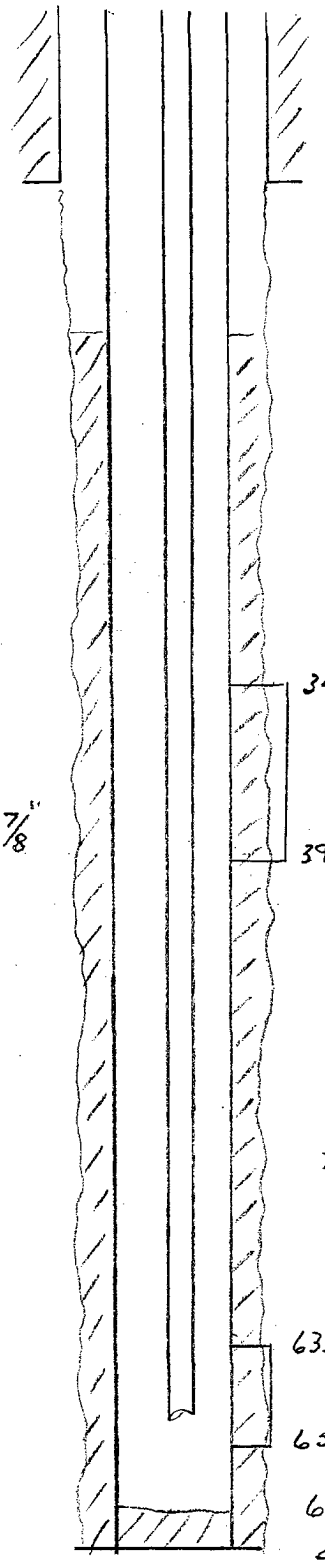
9. Perforate 2 squeeze holes at 245' (50' below surface casing shoe).

10. **Plug #5 0' - 245'.** Connect the pump truck directly to the 4-1/2" casing and attempt to establish circulation through the bradenhead. Pump cement as necessary, approximately 70 sx (83 cu.ft.), to fill the inside and outside of the 4-1/2" casing from 245'. Fill hole with cement as necessary.

11. Remove wellhead and install a dry hole marker. Reclaim location as per surface owner specifications.

Paul C. Thompson, P.E.

MANANA GAS, INC.
BETTY HARTMAN #1
SEC. 14, T30N, R12W
CURRENT STATUS.



8 5/8", 24# @ 195'
CMT W/ 480 SX
CMT. CIRC TO SURFACE

CALC TOC - 750'

OJO ALAMO 348'
KIRTLAND 476'

PICTURED CLIFFS 1818'

CLIFF HOUSE - 3380'

MENEFEE - 3530'

HOLE SIZE - 7 7/8"

POINT LOOKOUT - 4340'

MANCOS - 4480'

GALLUP - 5445'

DAKOTA - 6332'

3408

SQUEEZE CASING LEAK
W/ 232 SX (274 cu ft). 5/7/01

3971

$\frac{1904 \text{ ft}^3}{.2278 \frac{\text{ft}^3}{\text{ft}}} \times .7 = 5851'$

6601 - 5851 = 750'

205 JTS OF 2 3/8" TUBING AT 6426'

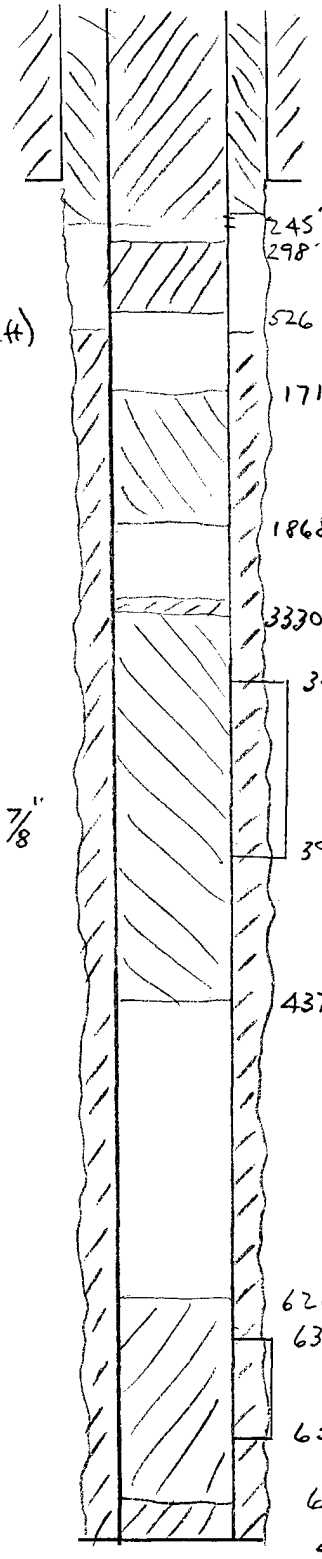
6335

DAKOTA PERFS

6517

6550' PBTD
4 1/2", 10.5# @ 6601
CMT W/ 1904 cu ft

MANANA GAS, INC.
BETTY HARTMAN #1
SEC. 14, T30N, R12W
P&A STATUS.



PLUG #5 SURFACE - 245'
TWO HOLES AT 245'
70 SK (83 cu ft)

OJO ALAMO 348'
KIRTLAND 476'

PLUG #4
526' - 298'
25 SK (30 cu ft)

PICTURED CLIFFS 1818'

CLIFF HOUSE - 3380'

MENEFEE - 3530'

HOLE SIZE - 7 7/8"

POINT LOOKOUT - 4340'

MANCOS - 4480

GALLUP - 5445'

DAKOTA - 6332'

PLUG #3 FRUITLAND COAL - PC
1718 - 1868'
15 SK (18 cu. ft.)

SQUEEZED HOLES
W/ 274 cu. ft.
5/7/01

PLUG #2 MV (3330 - 4370)
95 SK (112 cu ft)

PLUG #1 6285 - 6550
25 SK (30 cu ft)

DAKOTA PERFS