District I 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

Printed Name/Tit

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

June 1, 2004

Form C-144

For drilling and production facilities, submit to appropriate NMOCD District Office.

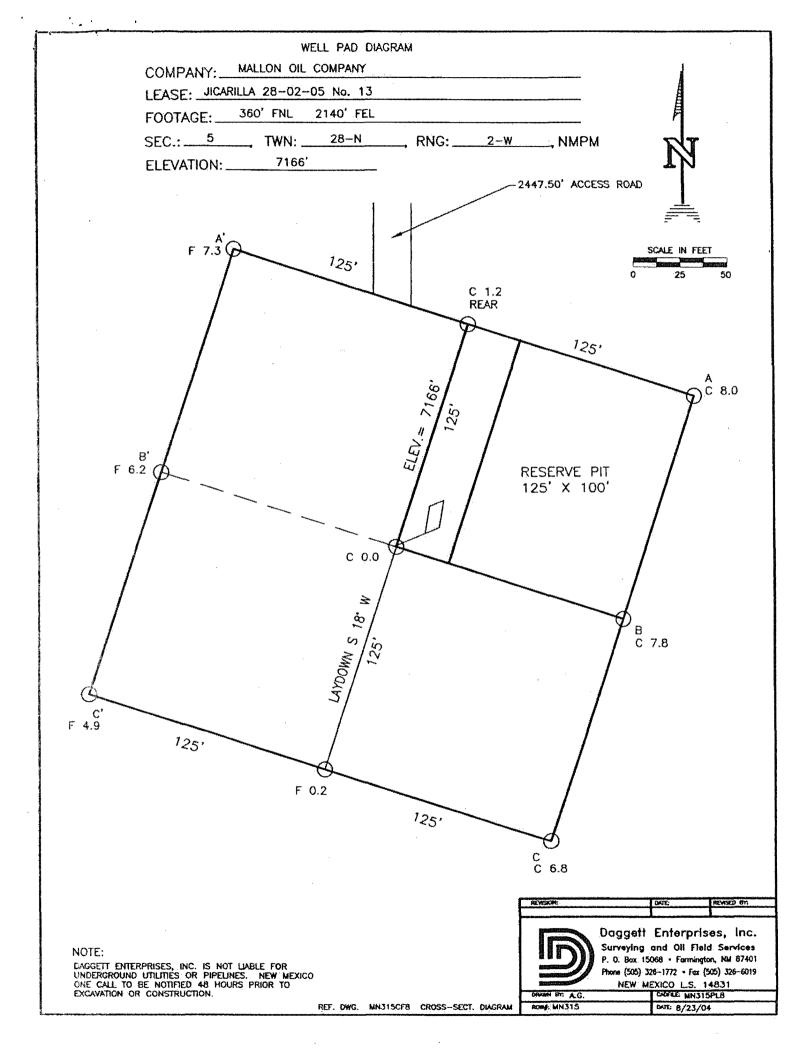
For downstream facilities, submit to Santa Fe

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank __ Telephone: __<u>505-634-1111</u> Operator: Black Hills Gas Resources, Inc. ____e-mail address: Address: 3200 N. 1st St., Bloomfield, NM 87413 30-039-29425 Facility or well name: <u>Jicarilla 28-02-05 13</u> __U/L or Qtr/Qtr__<u>NW_NE___</u> Sec __5 __T __28N __R __2W County: Rio Arriba Latitude 36° 40' 26" Longitude 107° 03' 51" NAD: 1927 🗌 1983 🔀 Surface Owner Federal 🗌 State 🔲 Private 🗍 Indian 🔀 Pit Below-grade tank Type: Drilling | Production | Disposal | Volume: ____ bbl Type of fluid: Workover

Emergency Construction material: Lined D Unlined Double-walled, with leak detection? Yes If not, explain why not. Liner type: Synthetic
☐ Thickness 15 mil Clay ☐ Pit Volume $\pm 17,811$ Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic <u>No</u> (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (@ point Ranking Score (Total Points) 2 0 points If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite offsite foffsite, name of facility ____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth below ground surface tach sample results (5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments: I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the more than the restriction of the complete to the best of my knowledge and belief. has been/will be constructed or closed according to NMOCD guidelines 🗵, a general permit 🗌, or an (attached) alternative OCD-approved plan 🔲. Printed Name/Title Lynn H. Benally Signature_ Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. CEPUTY CIL & GAS INSPECTOR, OIST. 41 Approval

Signature

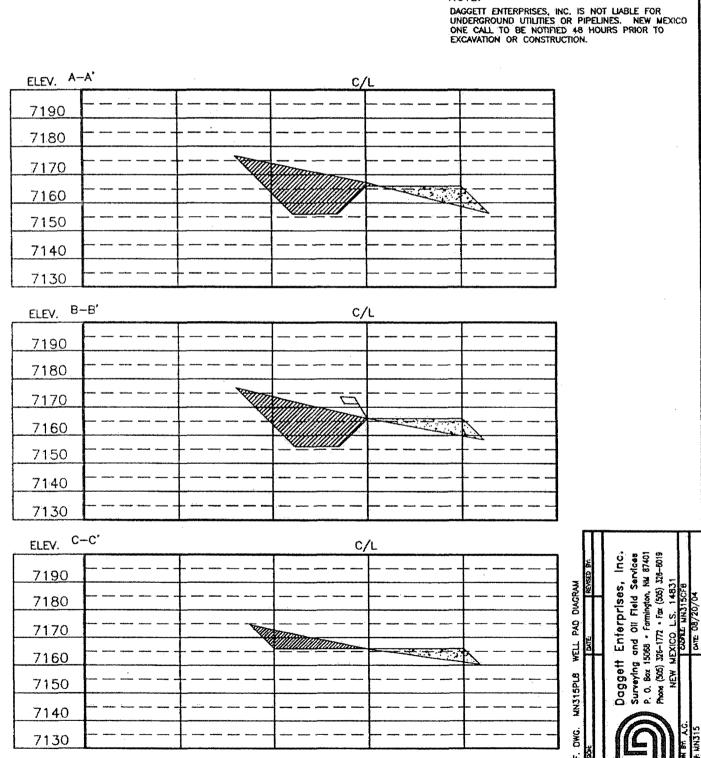


WELL PAD CROSS-SECTIONAL DIAGRAM

4. . .

COMPANY:	MALLON OIL COMPANY	
LEASE:	JICARILLA 28-02-05 No.	13
FOOTAGE:	360' FNL 2140' FEL	Halffallstade also assum We tree excensives with high the minimum manifestals assum and assum with himmen was
SEC.:5,	TWN:28-N	, RNG: <u>2-W</u> , NMPM
ELEVATION:	7166'	

NOTE:



Black Hills Gas Resources, Inc. **Jicarilla 28-02-05 13** 360' FNL 2,140' FEL (NW/4 NE/4) – Lot 2

Sec. 5 T28N R2W Rio Arriba County, New Mexico

Lease: MDA 701-98-0013, Tract 2

DRILLING PROGRAM

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This NOS process includes an onsite meeting which was held on August 26, 2004, as determined by BLM, Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Administration (JOGA), and at which time the specific concerns of Black Hills Gas Resources, Inc. (Black Hills), BLM, BIA and JOGA were discussed.

BLACK HILLS RESPECTFULLY REQUESTS THAT ALL INFORMATION REGARDING THIS WELL BE KEPT CONFIDENTIAL.

SURFACE FORMATION – San Jose

GROUND ELEVATION - 7,166'

<u>ESTIMATED FORMATION TOPS</u> - (Water, oil, gas and/or other mineral-bearing formations)

San Jose	Surface	Sandstone, shales & siltstones
Nacimiento	1,977'	Sandstone, shales & siltstones
Ojo Alamo	3,185'	Sandstone, shales & siltstones
Fruitland	3,611'	Sandstone, shales & siltstones
Pictured Cliffs	3,700'	Sandstone, shales & siltstones
Lewis	3,808'	Sandstone, shales & siltstones

TOTAL DEPTH 4,000'

Estimated depths of anticipated fresh water, oil, or gas:

Tertiary

San Jose	surface	Gas	
Nacimiento	1,977'	Gas Gas	
Ojo Alamo	3,185'		
Fruitland	3,611'	Gas	
Pictured Cliffs	3,700'	Gas	

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0'-250'	12-1/4"	8-5/8"	J-55 24# ST&C New	To surface (±175 sxs Class B)
0' - T.D.	7-7/8"	5-1/2"	J-55 15.5# LT&C New	TD to surface (±630 sxs lite or 65:35 poz and ±270 sxs 50:50 poz)*

^{*} Actual cement volume to be determined by caliper log.

Yields: Class B yield = $1.18 \text{ ft}^3/\text{sx}$

65:35 Poz yield = $1.62 \text{ ft}^3/\text{sx}$ 50:50 Poz yield = $1.26 \text{ ft}^3/\text{sx}$

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

0' - 250' Fresh water - M.W. 8.5 ppg, Vis 30-33
250' - TD Fresh water - Low solids non-dispersed
M.W. 8.5 - 9.2 ppg
Vis - 28 - 50 sec
W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at wellsite.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed

LOGGING, CORING, TESTING PROGRAM

DIL- CNL-FDC-GR - TD - BSC (GR to surface) A) Logging:

Sonic (BSC to TD)

B) Coring: None

C) Testing: Possible DST – None anticipated. Drill stem tests may be run on shows of interest

ABNORMAL CONDITIONS

Pressures: A)

No abnormal conditions are anticipated

Bottom hole pressure gradient – 0.31 psi/ft

B) Temperatures: No abnormal conditions are anticipated

C) H₂S: None anticipated

D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

February 28, 2005

COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2-3/8" J-55 4.7#/ft tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.

2-M SYSTEM Black Hills Gas Resources, Inc.

ANNUEAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOR PRESSURE TEST TO 1,000 PSI

