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

RECEIVE mit to appropriate District Office

FEB 0 8 2006 ☐ AMENDED REPORT

| A DDI  | APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE |             |   |  |  |                        |                            |  |   |                    |  |              |
|--|--|-------------|---|--|--|------------------------|----------------------------|--|---|--------------------|--|--------------|
| Operator Name and Address  |  |             |   |  |  | EN LEN,                | , DE                       |  | 1   | OGRI               | D Number                               | AZONE        |
| Nadel and Gussman Permian, LLC<br>601 N. Mariemed Sure 508   |  |             |   |  |  |                        |                            | 155615   |   | Number             |  |              |
| Midland, TX 79701 Second Property Code Second Property 1   |  |             |   |  | Name   |                        |                            | 30 – 015-  | 79  | 600<br>Wel         |  |              |
| 3  | 543  | 58          |   |  | Hannibal F   | ee Com                 |                            |  |   |                    | #                                      | l            |
| Dub  | lin [  | Can ch      | Proposed Pool 1                                   |  | 16140  |                        |                            |  | <sup>10</sup> P                                     | roposed Pool       | 12                                     |              |
|  |  |             |   |  | <sup>7</sup> Surface                                   | Location               | n                          | · // // // // // // // // // // // - // - // - // - // - // - // |   |                    |  |              |
| UL or lot no.  | Section  | Township    | Range   | Lot lo   | in Feet fi   | rom the N              | North/Sc                   | outh line  | Feet from the                                       | East/V             | Vest line                              | County       |
| В  | 31   | 22 S        | 28 E  | 660  |  |                        | No                         |  |   | E                  | East Eddy                              |              |
|  |  |             | <del>                                      </del> |  | om Hole Loca   |                        |                            |  | *   |                    |  | F            |
| UL or lot no.  | Section  | Township    | Range   | Lot I  | dn Feetfi  | rom the N              | North/So                   | h/South line Feet from the                                       |   | East/V             | Vest line                              | County       |
| L  | l  | - '         | 1   | Ac   | Iditional W  | ell Inform             | natio                      | n  |   |                    |  |              |
| £  | Type Code<br>N   |             | <sup>12</sup> Well Type Cod<br>G                  | e  |  | le/Rotary<br>R         |                            | 14 Lease Type Code   |   |                    | 15 Ground Level Elevation<br>3,050'    |              |
| <sup>16</sup> M  | ultiple  |             | 17 Proposed Depth<br>12,900'                      |  |  | 18 Formation<br>Morrow |                            |  | <sup>19</sup> Contractor<br>Paterson - UTI          |                    | <sup>20</sup> Spud Date<br>04/01/06    |              |
| Depth to Groun   |  | or Less     |   | Distance f   | rom nearest fresh wa                                   | ter well: 200' or      | Less                       |  | Distance from nearest surface water: Less than 200' |                    | ss than 200'                           |              |
| <u>Pit:</u> Liner:   | Synthetic D  |             | thick Clay  | Pit Volume   | :_15,000bbls   | D                      | Orilling                   | Method:  |   |                    |  |              |
| Closed   | -Loop System   | n 🗆         |   |  |  | Fresh W                | /ater                      | Brine  | Diesel/Oil-bas                                      | sed Gas            | /Air 🔲                                 |              |
|  |  |             | 21  | Propos   | sed Casing   | and Ceme               | ent F                      | rogran   | 1   |                    |  |              |
| Hole S   | ize  | Cas         | sing Size   | Casing weight/foot   |  |                        | Setting Depth Sacks of Cer |  | Cement  | ment Estimated TOC |  |              |
| 171/2"   |  | 1           | 13 3/8"   |  | 48# H-40   |                        | 400° 300sx                 |  | )sx   |                    | Circ. to Surf.                         |              |
| 121/4" 9 5/8   |  | 9 5/8"      | 4(  | )# N-80  | 5,000  |                        |                            | 900sx  |   |                    | Circ. to Surf.                         |              |
| 83/4"  |  |             | 5 1/2"  |  | 17#, 20# HCP-110                                       |                        | 12,900'                    |  | 1,55  | 0sx                |  | TOC @ 9,000° |
|  |  |             |   |  | <b></b>  |                        |                            | <u> </u>   |   |                    | ······································ |              |
| <sup>22</sup> 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.  Nadel and Gussman Permian, LLC proposes to drill the Hannibal Fee Com #1. A mud gas separator will be installed and tested prior to drilling the Wolfcamp. A BOP will be installed on the 9 5/8" and tested. Cement to cover all water, oil and gas producing zones. NGP will notify NMOCD of spud date and cementing times so the surface and intermediate casing strings could be witnessed. No H <sub>2</sub> S is expected, but a contingency is attached. |  |             |   |  |  |                        |                            |  |   |                    |  |              |
| <sup>23</sup> I hereby cer   | tify that the  | information | given above is true                               | and comm   | lete to the hest                                       |                        | )                          | OH 6   | ONTGERNAL   |                    | D YY 17 (1                             |              |
| 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 NMOCD guidelines ⊠, a general permit □, or an (attached) alternative OCD-approved plan □.   |  |             |   | Approved by:  Ap |  |                        |                            |  |   |                    |  |              |
| Signature:   |  |             |   |  | Tale   |                        |                            |  |   |                    |  |              |
| Printed name: Josh Fernau  |  |             |   |  | <b> </b>   | Title:                 |                            |  |   |                    |  |              |
| Title: Staff Engineer  E-mail Address;   |  |             |   |  | Approval DateFEB 0 8 2006 Expiration Date: EB 0 8 2007 |                        |                            |  |   |                    |  |              |
| Date: 02/07/06 Phone: 432-682-4429   |  |             |   | Conditions of American Attached  |  |                        |                            |  |   |                    |  |              |

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II State of New Mexico

Form C-102 Revised March 17, 1999

Energy, Minerals and Natural Resources Department

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

811 South First, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

### OIL CONSERVATION DIVISION

Santa Fe, New Mexico 87504-2088

2040 South Pacheco

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

|                |                    | 1            | WELL LC             | CATION         | AND ACRE                 | EAGE DEDICATI                  | ON PLAT        |  |                 |  |
|----------------|--------------------|--------------|---------------------|----------------|--------------------------|--------------------------------|----------------|--|-----------------|--|
| API Number     |                    |              | Pool Code Pool Name |                |                          |                                |                |  |                 |  |
|                |                    |              |                     |                |                          | Doblin                         | Ranch; 1       | horrow                                       |                 |  |
| Property Code  |                    |              |                     | 1.1            | Property Na              | ame                            | . ,            | Well N                                       | umber           |  |
|                |                    |              |                     | H/             | ANNIBAL FE               |                                | ·              | 1  | 1               |  |
| OGRID N        | 0.                 |              |                     | NADEI          | Operator Na<br>AND CUSCA | IAN PERMIAN                    |                | Eleva  |                 |  |
| L              | <del></del>        | <u> </u>     |                     | NAUEL          |                          |                                |                | 305  | 0               |  |
|                |                    | <u>.</u>     |                     |                | Surface Lo               |                                |                |  |                 |  |
| UL or lot No.  | Section            | Township     | Range               | Lot Idn        | Feet from the            | i '                            | Feet from the  | East/West line                               | County          |  |
| В              | 31                 | 22 S         | 28 E                | Ĺ              | 660                      | NORTH                          | 1980           | EAST   | EDDY            |  |
|                |                    |              |                     | <del>,</del>   |                          | ferent From Sur                |                | · · · · · · · · · · · · · · · · · · ·        |                 |  |
| UL or lot No.  | Section            | Township     | Range               | Lot Idn        | Feet from the            | North/South line               | Feet from the  | East/West line                               | County          |  |
| Dedicated Acre | e loint o          | or Infill Co | nsolidation         | Codo l Om      | der No.                  | ·                              |                |  |                 |  |
| 5-20           | s   some o         |              | nsondation          | code   Or      | der No.                  |                                |                |  |                 |  |
| L              | <u> </u>           |              | 70707               |                |                          |                                |                |  |                 |  |
| NO ALLO        | )WABLE W           |              |                     |                |                          | UNTIL ALL INTER<br>APPROVED BY |                | EN CONSOLID                                  | ATED            |  |
|                | /                  |              |                     |                |                          |                                |                |  |                 |  |
|                | 1                  |              |                     |                | <b>†</b> !               | •                              | OPERATO        | R CERTIFICA                                  | rion            |  |
|                | i                  |              |                     |                | 099                      |                                | I hereby       | y certify the the in                         | formation       |  |
|                | i                  |              |                     |                |                          |                                | 1 1            | n is true and compl<br>pledge and belief.    | ete to the      |  |
|                | i                  |              |                     | ]              | 0-                       | - 1980'                        | est by my know | seage and veney.                             |                 |  |
|                | ì                  |              |                     | <br> Lat.: N32 | 1<br>21'16.3"            |                                | 11/            | 1  |                 |  |
|                | i                  |              |                     |                | 104.07,27.3              |                                | I what         | lman   |                 |  |
| K              | - — <del>-</del> i |              |                     |                | +                        |                                | Strature       | ·  | . —             |  |
| []             | 1                  |              |                     |                | i                        | •                              | Printed Name   | ternan                                       |                 |  |
|                | 1                  |              |                     |                |                          |                                | 11             | mineer                                       |                 |  |
|                | 1                  |              |                     |                | ì                        |                                | Title          | mineer                                       |                 |  |
|                | 1                  |              |                     | }              | i                        |                                | 02/07/0        | 6  |                 |  |
|                | 1                  |              |                     |                | i                        | •                              | Date           |  |                 |  |
|                | 1                  |              | ,                   | ]_             | j                        | //                             | SURVEYO        | R CERTIFICAT                                 | TION            |  |
| 8              |                    |              | 1                   | /              |                          | -//                            | 1              | 45-4 45                                      |                 |  |
|                | ļ                  |              |                     |                | j                        |                                | 11             | that the well locat<br>is plotted from field |                 |  |
|                |                    |              |                     |                | 1                        |                                | 11             | made by me or                                | * 11            |  |
|                | 1                  |              |                     |                | <br>                     |                                | 11             | i that the same is<br>best of my belie       |                 |  |
|                | i                  |              |                     |                | i                        |                                | NOVEN          | MBER 14, 200                                 | 5               |  |
|                | İ                  |              |                     |                | 1                        |                                | Date Surveye   |  |                 |  |
|                | +                  |              |                     | <u> </u>       | +                        |                                | Signature &    |  |                 |  |
| 11             | !                  |              |                     |                | ļ                        |                                |                |  | a               |  |
|                | ļ                  |              |                     |                | ļ                        |                                |                |  | ) <i> // //</i> |  |
|                | !                  |              |                     |                |                          |                                |                |  |                 |  |
|                | 1                  |              |                     |                |                          |                                | 1 1 5 W        | 2. No. 59√13                                 | <u>//</u>       |  |
|                | !                  |              |                     |                | 1                        |                                | Certificate No | Gary L. Jones                                | 7977            |  |
| <u> </u>       |                    |              |                     |                | <br>                     | ·<br>                          | Ra             | SIN SURVEYS                                  |                 |  |
|                |                    |              |                     |                |                          |                                |                | ~~· VV49701V                                 |                 |  |

### NADEL AND GUSSMAN PERMIAN, L.L.C.

601 N. Marienfeld, Suite 508 Midland, TX 79701 (432) 682-4429 (Office) (432) 682-4325 (Fax)

02/07/06

Mr. Bryan Arrant District 2 Geologist New Mexico Oil and Gas Division 1301 West Grand Avenue Artesia, NM 88210

Re: Hannibal Fee Com #1 660' FNL & 1,980' FEL Unit Letter B, Sec. 31-T22S-R28E Eddy, NM Rule 118 H2S Exposure

Dear Mr. Arrant,

Nadel and Gussman Permian have evaluated this well and we do not expect to encounter hydrogen sulfide. However, we will employ a third party monitoring system. We will begin monitoring prior to drilling out the intermediate casing and will continue monitoring the remainder of the well.

Please contact me if you have any additional questions.

Sincerely

Josh Fernau Staff Engineer RECEIVED

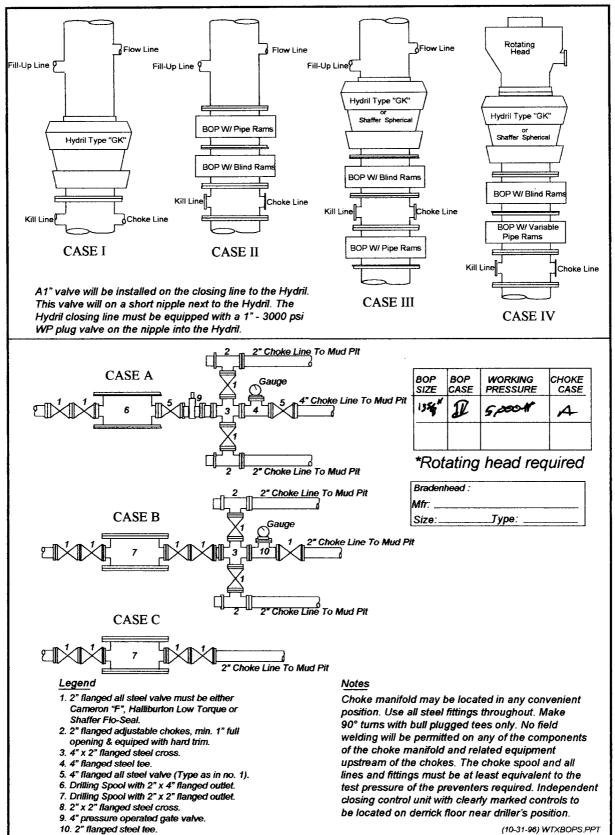
FEB 0 8 2006

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#### Hydrogen Sulfide Drilling Operations Plan

- 1. Company and Contract personnel admitted on location should be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S.
  - B. Physical Effects and Hazards.
  - C. Proper Use of Safety Equipment and Life Support Systems.
  - D. Principle and Operation of H<sub>2</sub>S Detectors, Warning System and Briefing.
  - E. Evacuation Procedure, Routes and First Aid.
  - F. Proper Use of 30 minute Pressure Demand Air Pack.
- 2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S Detectors and Audio Alarm System to be Located at Bell Nipple, End of Blooie Line (mud pit) and on Derrick floor or doghouse.
- 3. Windsock and/or Wind Streamers
  - A. Windsock at Mud Pit Area Should be High Enough to be Visible.
  - B. Windsock at Briefing Area Should be High Enough to be Visible.
  - C. There Should be a Windsock at Entrance to Location.
- 4. Condition Flags and Signs
  - A. Warning Sign on Access Road to Location.
  - B. Flags to be Displayed on Sign at Entrance to Location.
    - 1. Green Flag, Normal Safe Condition.
    - 2. Yellow Flag, Indicates Potential Pressure and Danger.
    - 3. Red Flag, Danger H<sub>2</sub>S Present in Dangerous Concentration Only Emergency Personnel Admitted to Location.
- 5. Well Control Equipment
  - A. See Attached Diagram.
- 6. Communication
  - A. While Working Under Masks Chalkboards Will be Used for Communication.
  - B. Hand Signals will be Used Where Chalk Board is Inappropriate.
  - C. Two Way Radio or Cell Phone will be Used to Communicate off Location in Case of Available at Most Drilling Foreman's Trailer or Living Quarters.
- 7. Drillstem Testing
  - A. Exhausts will be Watered.
  - B. Flare Line will be Equipped with an Electric Igniter or a propane pilot light in case gas reaches the surface.
  - C. If Location is near any Dwelling a Closed DST will be Performed.
- 8. Drilling Contractor Supervisor will be Required to be Familiar with the Effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S Encountered, Mud system will be Altered if Necessary to Maintain Control of Formation. A Mud Gas Separator will be Brought into Service Along with H<sub>2</sub>S Scavengers if Necessary.

## Nadel and Gussman Permian MINIMUM BLOWOUT PREVENTER REQUIREMENTS



(10-31-96) WTXBOPS.PPT

# PROPOSED MUD PROGRAM

# **CASING DESIGN**

| 13 3/8" | Surface Casing      | at | 400'    |
|---------|---------------------|----|---------|
| 9 5/8"  | Intermediate Casing | at | 5,000'  |
| 8 3/4"  | Open Hole           | to | 12,700' |

## **RECOMMENDED MUD PROPERTIES**

| <u>DEPTH</u>  | MUD WEIGHT               | <b>VISCOSITY</b>    | FLUID LOSS |  |  |  |  |
|---|--------------------------|---------------------|------------|--|--|--|--|
| Spud  | 8.6- 8.7                 | 32-34               | No Control |  |  |  |  |
| 400'  | 8.9- 9.2                 | 32-34               | No Control |  |  |  |  |
| Set 13 3/8" Surface   | Casing at 400'. Drill ou | t with Brine Water. |            |  |  |  |  |
| 400'  | 9.8-10.0                 | 28-30               | No Control |  |  |  |  |
| 1,500'  | 10.0-10.1                | 28-30               | No Control |  |  |  |  |
| 3,000'  | 10.0-10.1                | 28-30               | No Control |  |  |  |  |
| 4,500'  | 10.0-10.1                | 28-30               | No Control |  |  |  |  |
| 5,000'  | 10.0-10.1                | 28-30               | No Control |  |  |  |  |
| Set 9 5/8" Intermediate Casing at 5,000'. Drill out with Fresh Water. |                          |                     |            |  |  |  |  |
| ·5,000°   | 8.4- 8.5                 | 28-29               | No Control |  |  |  |  |
| 7,000'  | 8.4- 8.5                 | 28-29               | No Control |  |  |  |  |
| 8,000'  | 8.4- 8.5                 | 28-29               | No Control |  |  |  |  |
| 9,000'  | 8.4- 8.5                 | 28-29               | No Control |  |  |  |  |
| 9,500'  | 9.2- 9.4                 | 28-29               | No Control |  |  |  |  |
| 10,000'   | 9.4- 9.6                 | 28-29               | No Control |  |  |  |  |

| 10,800' | 9.8- 10.0 | 32-34 | <12 |
|---------|-----------|-------|-----|
| 11,400' | 10.2-12.0 | 32-34 | <12 |
| 11,800' | 10.2-12.0 | 45-50 | <12 |
| 12,200' | 10.2-12.0 | 45-50 | <12 |
| 12,700' | 10.2-12.0 | 45-50 | <12 |

### RECOMMENDED MUD PROGRAM BY CASING INTERVAL

### Surface Hole 0 – 400'

Spud with a Horizon Gel/Lime slurry, mixing one Lime per ten Gel for a 32-34 viscosity. Lost circulation is common in this area. Should lost circulation occur and cannot be re-gained with one LCM pill, dry drill to total depth.

### Intermediate Hole 400' - 5,000'

Drill out from under the surface casing with brine water, circulating through the reserve pit to allow maximum time for settling drilled-solids.

Severe lost circulation is possible while drilling this interval. Seepage can be controlled with additions of **Paper**. Should complete loss of returns occur while drilling, we recommend pulling up above the loss zone to avoid differential sticking and spotting a 100-200 barrel pill containing 15-25 lb/bbl lost circulation material. Spot the pill from above at a reduced pump rate before returning to bottom to commence drilling operations. If lost circulation is not regained with one or two LCM pills, some blind drilling may be required. If partial returns are maintained, use only brine for volume to avoid severe washouts.

Crooked hole can be a problem in this area.

Allow hole conditions to dictate the need for any additional viscosity or hole sweeps at total depth to clean the hole and insure smooth casing operations.

## Open Hole-5,000'-12,700'

Drill out from under the intermediate casing with fresh water, circulating through the outer reserve pit to, once again, allow maximum time for settling drilled-solids. A flocculent (MF-1) can be used to aid in dropping solids, providing a clear fluid and maximum penetration rates.

## We recommend that the surface pit system include the following:

⇒ Flo-line Cleaner – This will allow removal of a wider range of solids and will assist in optimizing the efficiency of the de-sander and de-silter (or scale shaker).

- ⇒ Centrifuge—This will allow for fine solids removal and barite recovery.
- ⇒ Shale and settling pit by-pass Canal To reduce volumes when conditioning mud for DST's or added hole cleaning at total depth.
- ⇒ Pit Volume Totalizers To more accurately monitor pit gains and losses.
- ⇒ One 1000 sack Barite Bin- For barite storage on location.

We recommend maintaining a 9.0 - 9.5 pH with Caustic.

As drilling progresses post 6,000, some loss of fluid should occur. Minor seepage can be controlled with additions of Paper. Complete lost circulation is also possible during this interval. Should complete loss of returns occur while drilling, we recommend following the same procedure described in the previous section.

Severe seepage in the **Delaware** and **Bone Springs** may require alternative methods of combating losses, such as:

- ⇒ Heavy bentonite pills
- ⇒ Diesel/Loloss pills

Crooked hole can also be a problem in this section past 8,000'.

Utilize Horizon Poly-Vis II and Prehydrated Gel for periodic sweeps while drilling, prior to mud-up.

Kick-off at 9,000' and drill a 1.75° angle to 9.56° and hold to achieve 1,000' hole displacement.

At a depth of  $9,500^{\circ}$  or the top of the Wolfcamp, we recommend returning to the working pits and displacing with brine weighing 9.2 - 9.4 ppg.

By 10,800' or the top of the Strawn, we recommend displacing with brine and mudding-up with an XC Polymer/MF-55 system to achieve the following properties:

Mud Weight 9.8–10.0 Viscosity 32 – 34 Fluid Loss <12

It is also possible to encounter abnormal pressure in the Atoka formation. Drilling slightly under-balanced has proven successful at maximizing penetration rates, however, it may be necessary to increase the mud weight to 10.5-12.0 ppg to control formation pressure. It may be possible to avoid increasing the weigh of the entire system by spotting heavy pills on bottom for trips.

If higher mud weights are required, 7" casing may be necessary to cover the **Bone Springs** formation.

**XCD Polymer** at higher concentrations has the unique ability to increase the "low-shear rate viscosity" of the fluid. This property has proven to minimize losses in the **Delaware** and **Bone Springs**. On two wells in the immediate area, this fluid has eliminated the need for 7" casing while formation pressures required as high as an 11.8 ppg mud weight to control.

We recommend adding MF-55 to the system in this particular area to minimize potential sloughing shale. MF-55 is a non-ionic emulsion polymer that will chemically tie up water. This "taking on of water" effect has proven to significantly minimize fluid invasion. MF-55 also has the ability to inhibit through encapsulation, or coating of the wellbore.

Lost circulation could occur after mud-up. We recommend using fibrous-type LCM to control seepage. Should complete loss of returns occur, we recommend following the same procedure as described in the previous section.

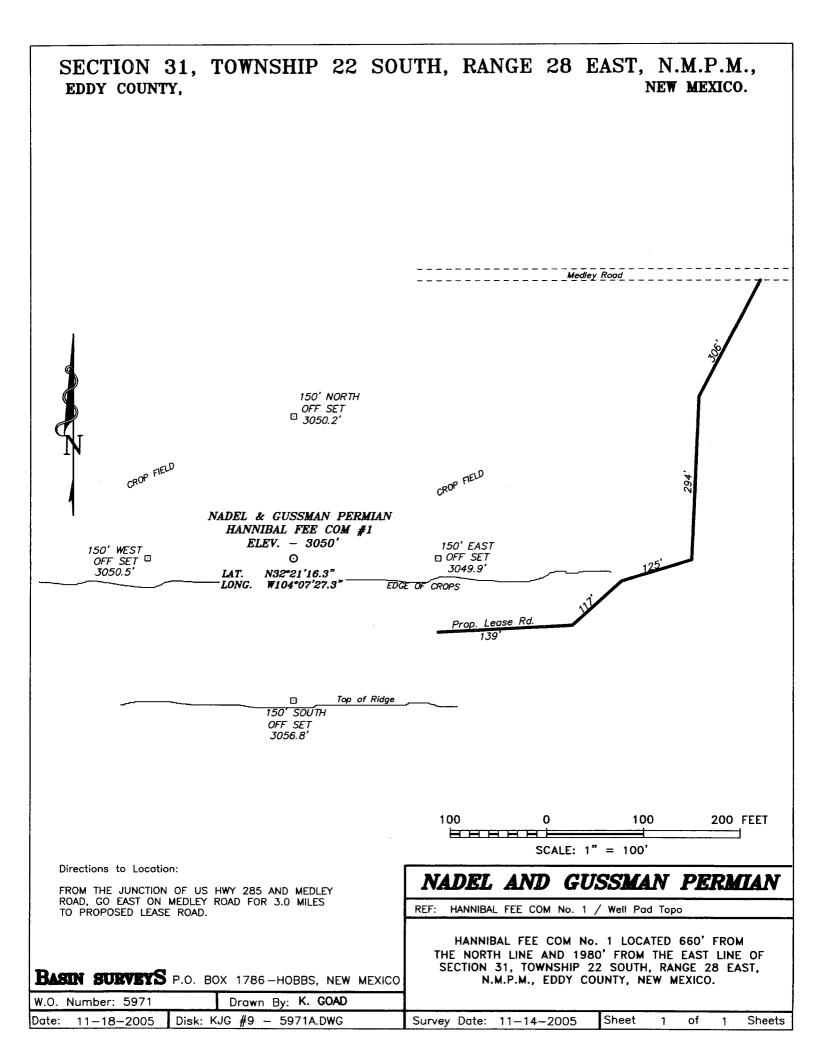
### REDUCED FORMATION DAMAGE WITH XC POLYMER

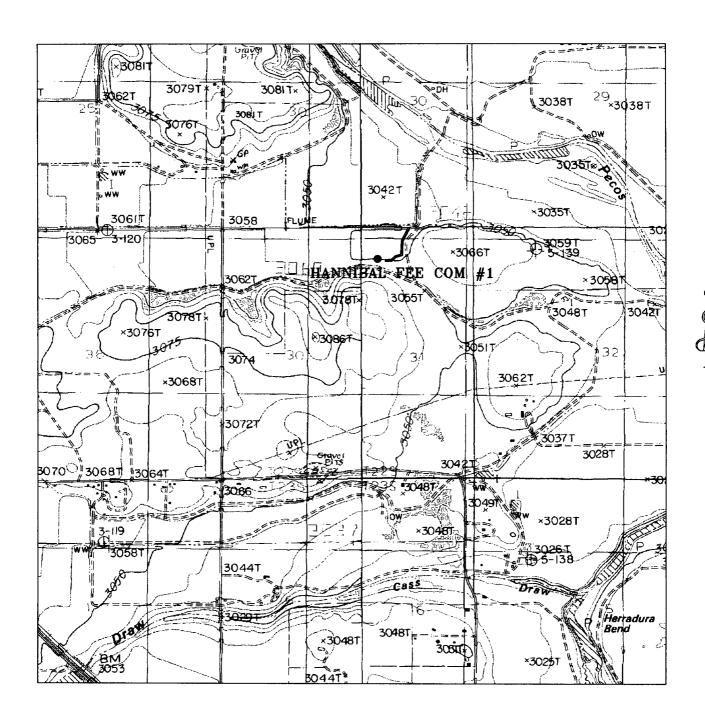
At 11,800' or the top of the Morrow, we recommend increasing the concentration of XC Polymer to 1 3/4 to 2 ppb to achieve low shear-rate viscosity (LSRV). This concentration of XC Polymer is necessary to accomplish the networking effect of the polymers. It is this networking effect of the Zanthan Gum polymer that gives it its unique ability to increase the LSRV.

By achieving elevated viscosity in the low shear region of the flow profile, lateral penetration of fluid into the formation is reduced. This will minimize damage to the **Morrow** formation caused by the migration of clays once the kaolinite booklets have been broken. Also, an additional benefit of reaching this flow profile is that hole cleaning is maximized.

LSRV is monitored by measuring the gel strength and the relaxation time of the fluid. Minimum gel strength values of 40 - 60 (.2 spring) and a relaxation measurement of 3 to 4 minutes are essential to provide the proper flow profile. The "relaxation measurement" directly measures the LSRV of the fluid. The **Brookfield Rheometer** is also used in the field to correlate with the relaxation measurement.

This fluid, adjusted as shown in the "RECOMMENDED MUD PROPERTIES" section, or as hole conditions dictate, should provide good hole conditions for any testing, logging and casing operations.





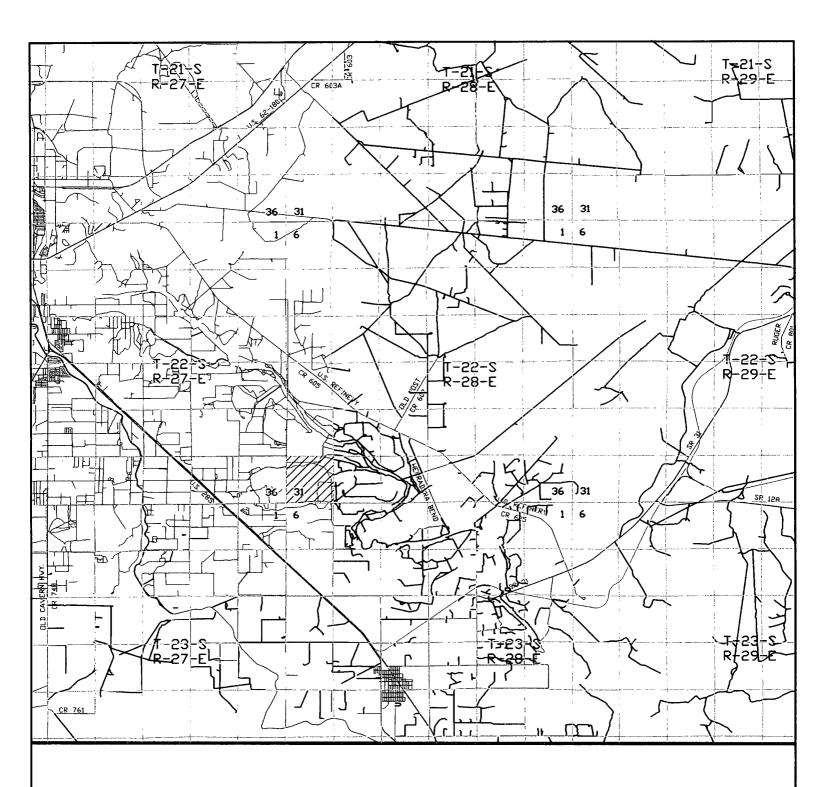
HANNIBAL FEE COM #1 Located at 660' FNL and 1980' FEL Section 31, Township 22 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

| W.O. Number:      | 5971AA - KJG #1 |  |  |  |  |
|-------------------|-----------------|--|--|--|--|
| Survey Date:      | 11-14-2005      |  |  |  |  |
| Scale: 1" = 2000' |                 |  |  |  |  |
| Date: 11-18-      | -2005           |  |  |  |  |

NADEL AND GUSSMAN PERMIAN, L.L.C.



HANNIBAL FEE COM #1 Located at 660' FNL and 1980' FEL Section 31, Township 22 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

| w.o. Number:  | 59/1AA - KJG #1 |
|---------------|-----------------|
| Survey Date:  | 11-14-2005      |
| Scale: 1" = 2 | MILES           |
| Date: 11-18-  | -2005           |

NADEL AND GUSSMAN PERMIAN, L.L.C.

