

|              |          |                 |                |          |                     |
|--------------|----------|-----------------|----------------|----------|---------------------|
| DATE IN 8/14 | SUSPENSE | ENGINEER Warner | LOGGED IN 8/14 | TYPE WFX | APP NO. 09245479252 |
|--------------|----------|-----------------|----------------|----------|---------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



2009 AUG 14 PM 2 17

ConocoPhillips  
(217817)

## ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

### Application Acronyms:

**[NSL-Non-Standard Location]** **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling]** **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling]** **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion]** **[PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal]** **[IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification]** **[PPR-Positive Production Response]**

### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☒ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

Add 12 wells

### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☐ Offset Operators, Leaseholders or Surface Owner  
 [C] ☐ Application is One Which Requires Published Legal Notice  
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

JALYN N. FISKE

Print or Type Name

Signature

REGULATORY SPECIALIST

Title

7/24/09

Date

jalyn.fiske@conocophillips.com  
 e-mail Address

OTGW0924549252

Injection Permit Checklist (7/8/08)

Case \_\_\_\_\_ R \_\_\_\_\_ SWD \_\_\_\_\_ WFX 855 PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 9-1-09 UIC Qtr 3rd

# Wells 12 Well Name: MCA-unit, 399, 404, 411, 414, 418, 419, 420, 462, 474, 475, 478, & 483

API Num: (30-) \_\_\_\_\_ Spud Date: \_\_\_\_\_ New/Old: \_\_\_\_\_ (UIC primacy March 7, 1982)

Footages C Unit \_\_\_\_\_ Sec \_\_\_\_\_ Tsp 175 Rge 38E County Lea

Operator: ConocoPhillips Contact Jalyn Fiske

OGRID: 217817 RULE 40 Compliance (Wells) ☒ (Finan Assur) ☒

Operator Address: 3300 N "A" St. Bldg 6 Midland, TX 79705

Current Status of Well: \_\_\_\_\_

Planned Work to Well: \_\_\_\_\_

Planned Tubing Size/Depth: \_\_\_\_\_

|                             | Sizes<br>Hole.....Pipe | Setting<br>Depths | Cement<br>Sx or Cf | Cement Top and Determination<br>Method |
|-----------------------------|------------------------|-------------------|--------------------|----------------------------------------|
| Existing _____ Surface      |                        |                   |                    |                                        |
| Existing _____ Intermediate |                        |                   |                    |                                        |
| Existing _____ Long String  |                        |                   |                    |                                        |

DV Tool \_\_\_\_\_ Liner \_\_\_\_\_ Open Hole \_\_\_\_\_ Total Depth \_\_\_\_\_ PBDT \_\_\_\_\_

Well File Reviewed \_\_\_\_\_

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: ☒

| Intervals:                         | Depths | Formation | Producing (Yes/No) |
|------------------------------------|--------|-----------|--------------------|
| Above (Name and Top)               |        |           |                    |
| Above (Name and Top)               |        |           |                    |
| Injection.....<br>Interval TOP:    |        |           |                    |
| Injection.....<br>Interval BOTTOM: |        |           |                    |
| Below (Name and Top)               |        |           |                    |

0.2 PSI Max. WHIP

y Open Hole (Y/N)

no Deviated Hole?

**Sensitive Areas:** Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths \_\_\_\_\_

.... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

**Fresh Water:** Depths: \_\_\_\_\_ Wells(Y/N) \_\_\_\_\_ Analysis Included (Y/N): \_\_\_\_\_ Affirmative Statement: \_\_\_\_\_

**Salt Water:** Injection Water Types: \_\_\_\_\_ Analysis? \_\_\_\_\_

**Injection Interval:** .... Water Analysis: MCA 238 Hydrocarbon Potential \_\_\_\_\_

**Notice:** Newspaper(Y/N) ☒ Surface Owner Haltbe News-Sun Mineral Owner(s) \_\_\_\_\_

RULE 701B(2) Affected Parties: \_\_\_\_\_

**Area of Review:** Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 99 Num Repairs 0 Producing in Injection Interval in AOR \_\_\_\_\_

P&A Wells 59 Num Repairs 0 All Wellbore Diagrams Included? ☒

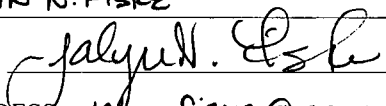
**Questions to be Answered:**

Required Work on This Well: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: ConocoPhillips Company  
ADDRESS: 3300 N. "A" Street, Bldg. 6 Midland, TX 79705  
CONTACT PARTY: JALYN N. FISKE PHONE: 432.688.6813
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary. *Attached - Exhibit 1*
- IV. Is this an expansion of an existing project? ☒ Yes ☐ No  
If yes, give the Division order number authorizing the project: R-2403
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. *Attached - Exhibit 2*
- VI. Attach a tabulation of data on all wells of public record within the area of review, which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. *Attached - Exhibit 3 (AOR wells) & Exhibit 4 (PA schematics)*
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. *(Previously Submitted - starting with R-2403)*
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. *(Previously Submitted - starting with R-2403)*
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. *(Not Applicable)*
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: JALYN N. FISKE TITLE: REG. SPECIALIST  
SIGNATURE:  DATE: 7/24/09  
E-MAIL ADDRESS: jalyn.fiske@conocophillips.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

---

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

- VII.
1. a. Average injection rate: 350 barrels of water per day  
b. Maximum injection rate: 1000 barrels of water per day
  2. a. Open
  3. a. Average – 2100 psi  
b. Maximum – 2150 psi
  4. a. Produced Water will be used as the injection fluid
  5. a. N/A

IX. Injection wells have been acid stimulated in the San Andres and fracture stimulated in the Grayburg as a part of their initial production completion. No new stimulation will be performed with the conversion to injection.

X. Wells that have been previously drilled, which includes all wells seeking approval in this application, have already had logs submitted to the Division.



# Water Analysis Report

4/14/2009

Address:

Customer: Conoco Phillips

Attention: Dennis Ross

Lease: MCA

Formation:

Salesman: Corey Hodnett

CC:

Target Name: MCA 238

Sample Point: MCA 238

Sample Date: 04/13/2009

Test Date: 04/14/2009

## Water Analysis(mg/L)

|                        |     |
|------------------------|-----|
| Calcium                | 128 |
| Magnesium              | 34  |
| Barium                 |     |
| Strontium              |     |
| Sodium(calc.)          | 89  |
| Bicarbonate Alkalinity |     |
| Sulfate                | 52  |
| Chloride               | 424 |
| Resistivity            |     |

## Appended Data(mg/L)

|        |   |
|--------|---|
| CO2    |   |
| H2S    |   |
| Iron   | 0 |
| Oxygen |   |

## Additional Data

|                              |     |
|------------------------------|-----|
| Specific Gravity             |     |
| Total Dissolved Solids(Mg/L) |     |
| Total Hardness(CaCO3 Eq Mg/  | 459 |

## Physical Properties

|                       |      |
|-----------------------|------|
| Ionic Strength(calc.) | 0.02 |
| pH(calc.)             |      |
| Temperature(°F)       | 70   |
| Pressure(psia)        | 200  |
| Density               |      |

|          |  |
|----------|--|
| Dew Poin |  |
| Lead     |  |
| Zinc     |  |

## Calcite Calculation Information

| Calculation Method | Value |
|--------------------|-------|
| CO2 in Brine(mg/L) |       |

Remarks:

## SI & PTB Results

| Scale Type                    | SI    | PTB |
|-------------------------------|-------|-----|
| Calcite (Calcium Carbonate)   |       |     |
| Gypsum (Calcium Sulfate)      | -2.47 |     |
| Hemihydrate (Calcium Sulfate) | -2.17 |     |
| Anhydrite (Calcium Sulfate)   | -2.86 |     |
| Barite (Barium Sulfate)       |       |     |
| Celestite (Strontium Sulfate) |       |     |

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, DANIEL RUSSELL

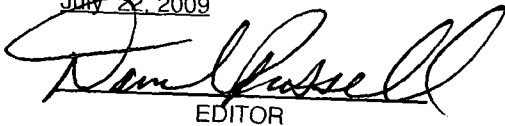
EDITOR

of the Hobbs News-Sun, a news-  
paper published at Hobbs, New  
Mexico, do solemnly swear that  
the clipping attached hereto was  
published in the regular and  
entire issue of said paper, and not  
a supplement thereof for a period

of 1 issue(s).

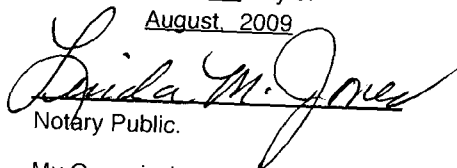
Beginning with the issue dated  
July 22, 2009

and ending with the issue dated  
July 22, 2009



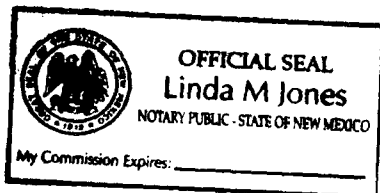
EDITOR

Sworn and subscribed to before  
me this 5th day of  
August, 2009



Notary Public.

My Commission expires  
JUNE 16, 2009  
(Seal)



This newspaper is duly qualified to  
publish legal notices or advertise-  
ments within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for said  
publication has been made.

LEGAL NOTICE  
JULY 23, 2009

ConocoPhillips Company, P.O. Box 51810, Midland, TX 79710-1810, Contact: Jalyn N. Fiske (432) 688-6813, is seeking administrative approval from the New Mexico Oil Conservation Division to inject produced water into twelve wells in the MCA Unit, in the Maljamar; Grayburg-San Andres Pool. The wells are all located in Township 17S, Range 32E, Lea County, NM: MCA #399, Sec 27, 2130' FSL & 1330' FWL, injection interval 3880'-4130'; MCA #404, Sec 27, 1310' FSL & 561' FWL, injection interval 4041'-4271'; MCA #411, Sec 33, 10' FNL & 1869' FWL, injection interval 3883'-4125'; MCA #414, Sec 27, 660' FSL & 2630' FEL, injection interval 4028'-4202'; MCA #418, Sec 27, 1310' FSL & 660' FWL, injection interval 3934'-4159'; MCA #419, Sec 27, 660' FSL & 145' FWL, injection interval 3955'-4205'; MCA #420, Sec 33, 10' FNL & 525' FEL, injection interval 3973'-4225'; MCA #462, Sec 26, 1830' FSL & 1330' FWL, injection interval 4075'-4298'; MCA #474, Sec 27, 2100' FSL & 1180' FEL, injection interval 3945'-4183'; MCA #475, Sec 27, 2580' FSL & 810' FEL, injection interval 3916'-4170'; MCA #478, Sec 28, 760' FSL & 2630' FEL, injection interval 3884'-4126'; MCA #483, Sec 28, 2130' FSL & 1310' FEL, injection interval 3822'-4018'. The maximum injection rate will be 1000 barrels of water per day and the maximum injection pressure will be 2150 psi for the above mentioned wells. Interested parties must file objections or request for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, NM 87504 within 15 days of this notice.

#25100

49101647

00035411

JALYN FISKE  
CONOCO PHILLIPS COMPANY MIDLAND  
3300 NORTH A STREET  
BLDG. 6  
MIDLAND, TX 79705

***Exhibit # 1***

## INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 399WELL LOCATION: 2130' FSL # 1330' FUL "K"SECTION 27 - T17S - R32E

FOOTAGE LOCATION

UNIT LETTER

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA  
Surface Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 700 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Total Depth: 4348'Injection Interval3880' feet to 4130'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (INTERNALLY PLASTIC COATED)

Type of Packer: 5 1/2" 17# HALLIBURTON - GL NICKEL PLATED

Packer Setting Depth: APPROX. 3900 FT (WITHIN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG - SAND ANDRES

3. Name of Field or Pool (if applicable): MAJAMAR; GRAYBURG-SAND ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3210' - 3575'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 404WELL LOCATION: 1310' FSL & 561' FWL      "C"

FOOTAGE LOCATION

UNIT LETTER

27-T17S-R32E

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 - 1/4"      Casing Size: 8 5/8"Cemented with: 570      sx.      or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE      Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8"      Casing Size: 5 1/2"Cemented with: 750      sx.      or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE      Method Determined: \_\_\_\_\_Total Depth: 4523'Injection Interval\_\_\_\_\_ feet to 4041'      to 4271'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7 # J-55 Lining Material: (I.P.C.) TK-99

Type of Packer: 5 1/2" 17 # HALLIBURTON-G6 NICKEL PLATED

Packer Setting Depth: APPROX. 3900 FT (WITHIN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG-SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAR, GRAYBURG-SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3371' - 3747'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA UNIT 411WELL LOCATION: 10' FWL # 1869' FWL

"C"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

33 - T17S - R32EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8"Cemented with: 100 sx. or ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 1000 sx. or ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Total Depth: 4345'Injection Interval3883' feet to 4125'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7 # J-55 Lining Material: (I.P.C.) TK-99

Type of Packer: 5 1/2" 17 # HALLIBURTON-GLO NICKEL PLATED

Packer Setting Depth: APPROX. 3900 FT (WITHIN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG-SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAR; GRAYBURG-SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3201' - 3570'

## INJECTION WELL DATA SHEET

OPERATOR: CANOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 4141WELL LOCATION: 660' FSL @ 2630' FEL"0"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27-T17S-R22EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 700 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Total Depth: 4510'Injection Interval4028' feet to 4202'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7 # J-55 Lining Material: (I.P.C) TK-99

Type of Packer: 5 1/2" 17 # HAWBURN-GL NICKEL PLATED

Packer Setting Depth: ~ 3900 FT (w/in 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCED

2. Name of the Injection Formation: GRAYBURG-SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAE; GRAYBURG-SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3348' - 3721'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCO-PHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 4112WELL LOCATION: 1310' FSL & 660' FWL

"M"

27-T17S-R32E

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 750 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Total Depth: 4380'Injection Interval3934' feet to 4159'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7 # J-55 Lining Material: (1.P.C.) TK-99Type of Packer: 5 1/2" 17 # HALLIBURTON - 606 NICKEL PLATEDPacker Setting Depth: ~ 3900 FT (W/IN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes
- X
- No

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation:
- GRAYBURG - SAN ANDRES

3. Name of Field or Pool (if applicable):
- MAUJAMAR; GRAYBURG - SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
- N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3240' - 3612'

## INJECTION WELL DATA SHEET

OPERATOR: CONSCORPTIONS COMPANYWELL NAME & NUMBER: MCA UNIT 419WELL LOCATION: 660' FSL & 145' FWL "M"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27- T17S - R32E

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 4375'Injection Interval3955'

feet to

4205'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8", 47 #, J-55 Lining Material: (I.P.C.) TK-99Type of Packer: 5 1/2", 17 #, HALIBURTON - GG, NICKEL PLATEDPacker Setting Depth: ≈ 3900 FT (w/in 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG - SAN ANTONIO

3. Name of Field or Pool (if applicable): MAJAMAR; GRAYBURG - SAN ANTONIO

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3256' - 3275

## INJECTION WELL DATA SHEET

OPERATOR: CONOCO PHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 420WELL LOCATION: 10' FNL # 525' FEL"A"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

33 - T17S - R22EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 1000 sx. or \_\_\_\_\_ ft<sup>3</sup>Top of Cement: SURFACE Method Determined: \_\_\_\_\_Total Depth: 4385'Injection Interval3973' feet to 4225'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8", 47 #, J-55 Lining Material: (I.P.C.) TK-99

Type of Packer: 5 1/2", 17 #, HALIBURTON - GG, NICKEL PLATED

Packer Setting Depth: ~ 3900 FT (W/IN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCE

2. Name of the Injection Formation: GRAYBURG - SAN ANDRES

3. Name of Field or Pool (if applicable): MATAMOR; GRAYBURG - SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3286' - 3646'

## INJECTION WELL DATA SHEET

OPERATOR: CONSCORPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 462WELL LOCATION: 1830' FSL # 1330' FwL

"K"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 4480'Injection Interval4075'

feet to

4218'(Perforated or Open Hole, indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 47# J-55 Lining Material: (I.P.C.) TK-99

Type of Packer: 5 1/2" 17# HALLIBURTON - GG, NICKEL PLATED

Packer Setting Depth: ~ 3900 FT (WIN 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG - SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAR; GRAYBURG - SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3370' - 3753'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA UNIT 474WELL LOCATION: 2100' FSL # 1180' FEL"I"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 4390'Injection Interval3945'

feet

to 4183'(Perforated or Open Hole) indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8", 4.7 #, J-55 Lining Material: (I.P.C.) TK-99

Type of Packer: 5 1/2", 17 #, HAUBERTON-GL, NICKEL PLATED

Packer Setting Depth: ≈ 3900 FT (W/H 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG - SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAR; GRAYBURG - SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3279' - 3253'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCO PHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 475WELL LOCATION: 2500' FSL & 810' FSL

"I"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27-17S-R32E

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 41405'Injection Interval3914'

feet to

4170'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8", 4.7 #, J-55 Lining Material: (I.P.C.) TK-99Type of Packer: 5 1/2", 17 #, HALIBURTON - 66, NICKEL PLATEDPacker Setting Depth: ~ 3900 FT (w/in 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_If no, for what purpose was the well originally drilled? OIL PRODUCER2. Name of the Injection Formation: GRAYBURG - SAN ANDRES3. Name of Field or Pool (if applicable): MALTAMAR; GRAYBURG - SAN ANDRES4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

QUEEN 3264' - 4035'

## INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA UNIT 478WELL LOCATION: 760' FSL # 2630' FEL

"0"

FOOTAGE LOCATION

UNIT LETTER

28-TAS-R32E

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 4200'Injection Interval3884'

feet to

4126'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8", 4.7 #, J-55 Lining Material: (I.P.C) TK-99

Type of Packer: 5 1/2", 17 #, HAMBURTON - GG, NICKEL PLATED

Packer Setting Depth: ≈ 3900 FT (w/in 100 FT OF TOP PERF)

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No

If no, for what purpose was the well originally drilled? OIL PRODUCER

2. Name of the Injection Formation: GRAYBURG - SAN ANDRES

3. Name of Field or Pool (if applicable): MALJAMAR; GRAYBURG - SAN ANDRES

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

GREEN 3186' - 3986'

## INJECTION WELL DATA SHEET

OPERATOR: CONCEPTS COMPANYWELL NAME & NUMBER: MCA UNIT 403WELL LOCATION: 2130' FSU # 1310' FEL

"I"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"

Cemented with: \_\_\_\_\_

sx. \_\_\_\_\_

or \_\_\_\_\_

ft<sup>3</sup> \_\_\_\_\_

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: 4208'Injection Interval3822'

feet

to 4018'(Perforated of Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 47# J-55 Lining Material: (I.P.C.) TK-99Type of Packer: 5 1/2" 17# HALLIBURTON - GCL NICKEL PLATESPacker Setting Depth: ≈ 3900 FT (W/IN 100 FT OF TOP PERF)

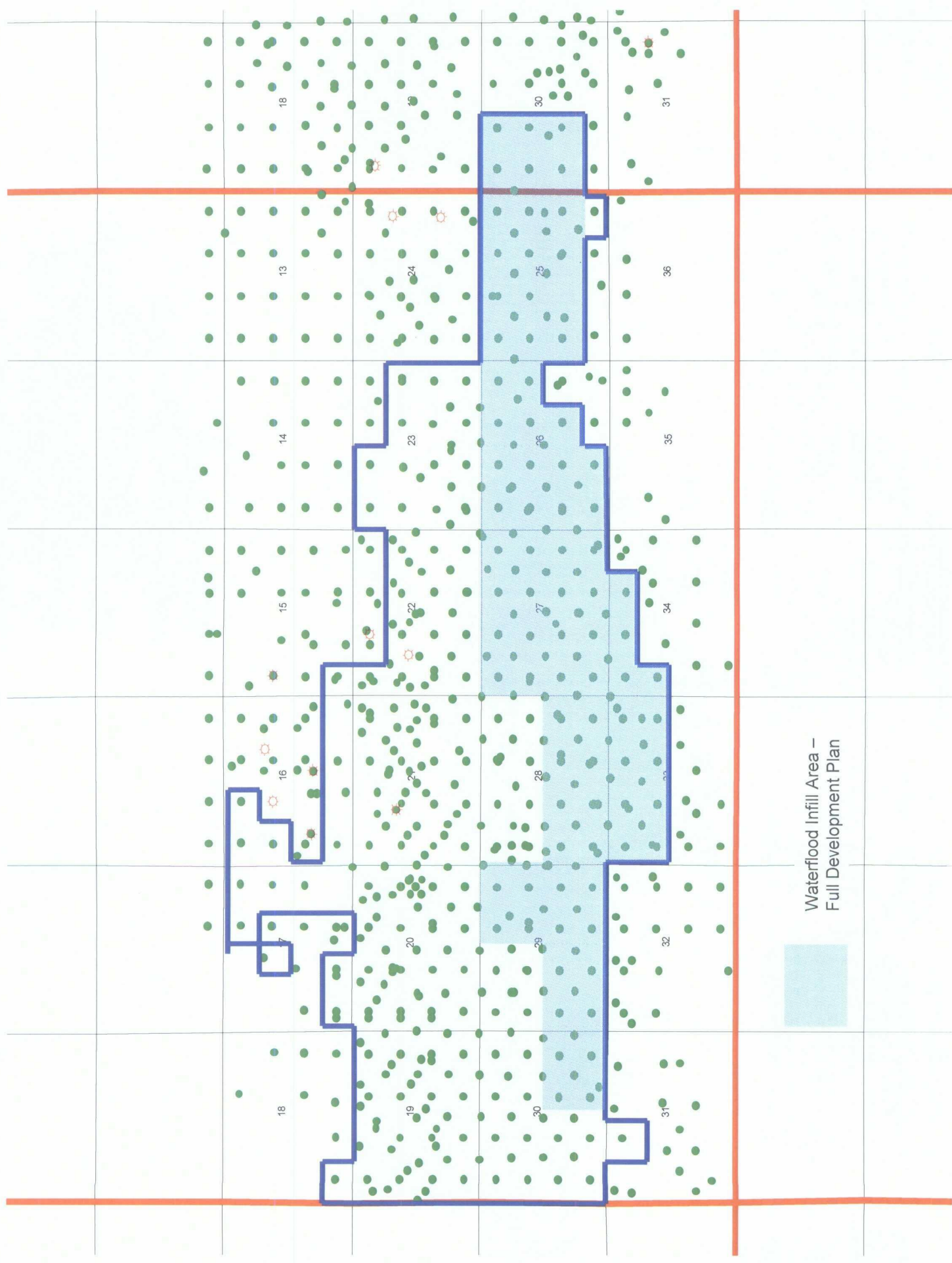
Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data1. Is this a new well drilled for injection? \_\_\_\_\_ Yes X No \_\_\_\_\_If no, for what purpose was the well originally drilled? OIL PRODUCER2. Name of the Injection Formation: GRAYBURG - SAN ANDRES3. Name of Field or Pool (if applicable): MALJAMAR, GRAYBURG - SAN ANDRES4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

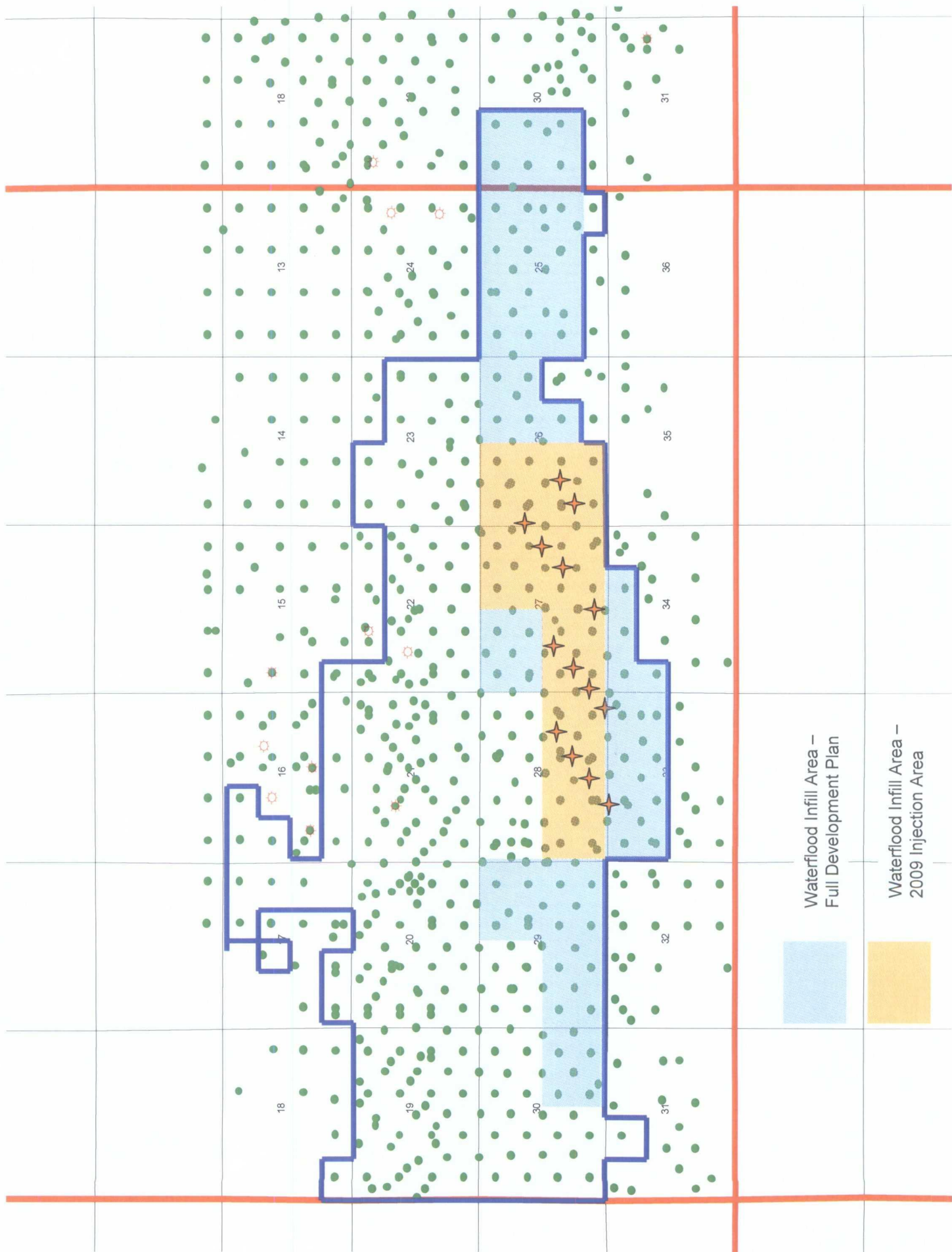
GREEN 3147' - 3912'

*Exhibit # 2*

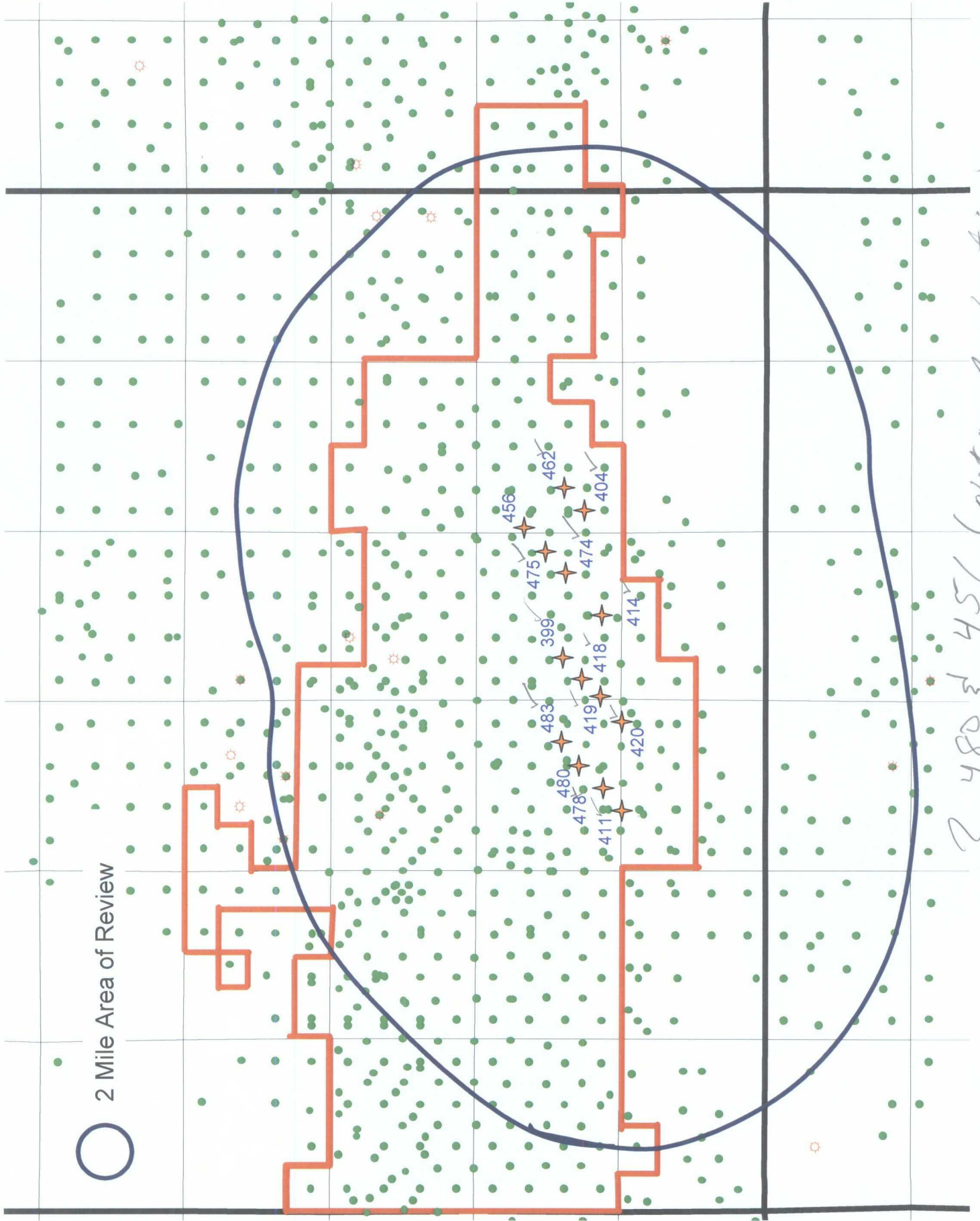


Waterflood Infill Area -  
Full Development Plan

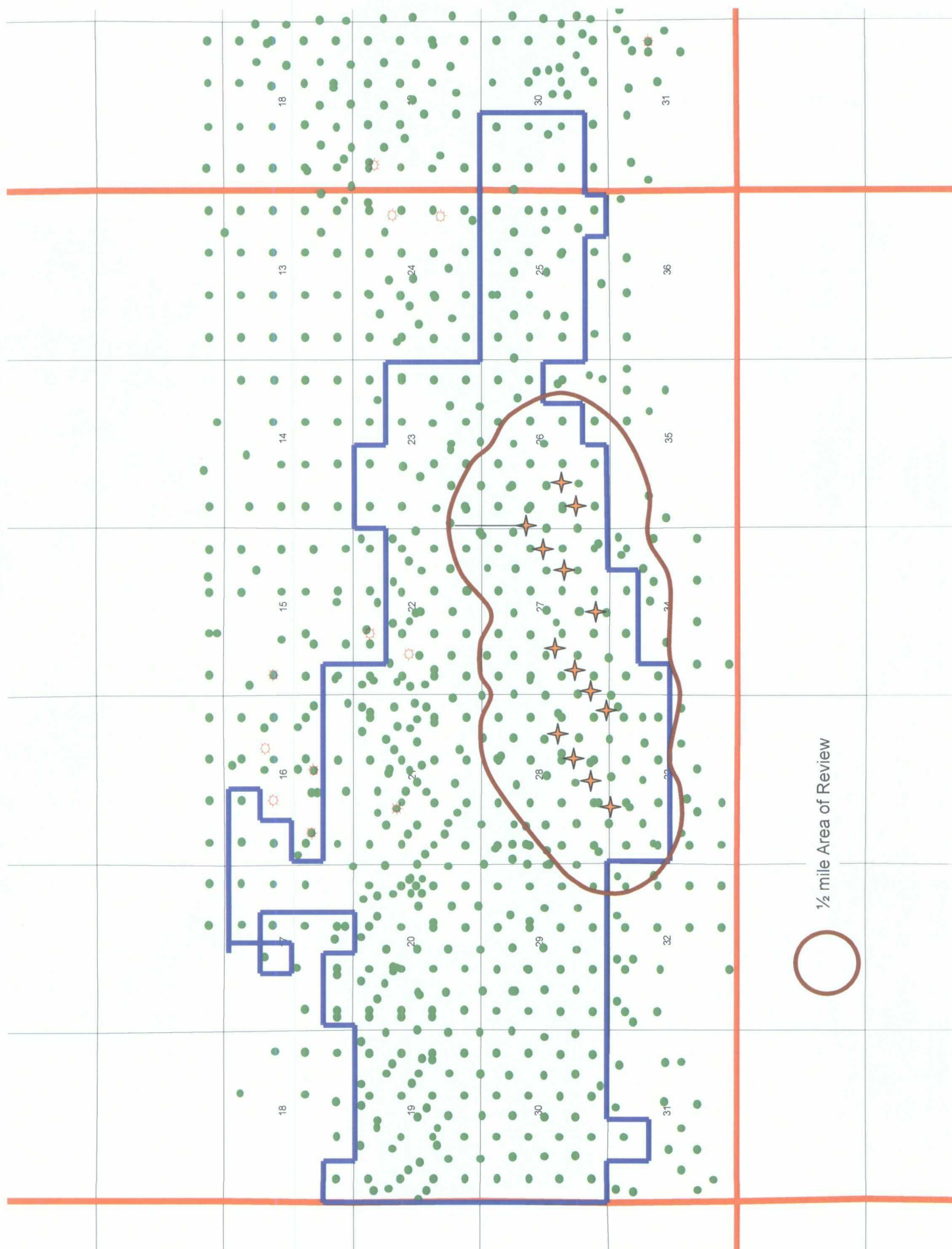




○ 2 Mile Area of Review



2 480 & 456 (Not on Application)



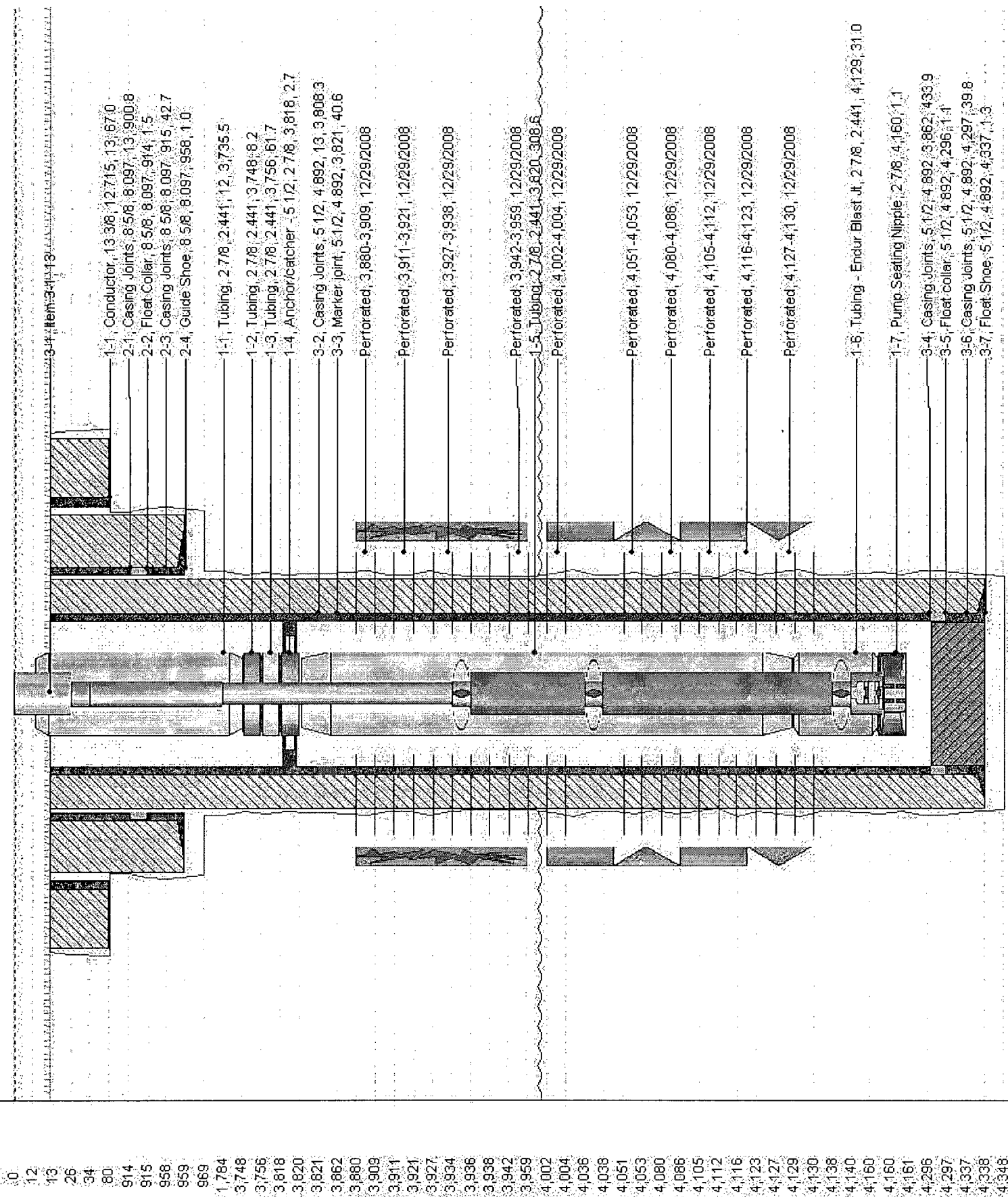
1/2 mile Area of Review

*Exhibit # 3*

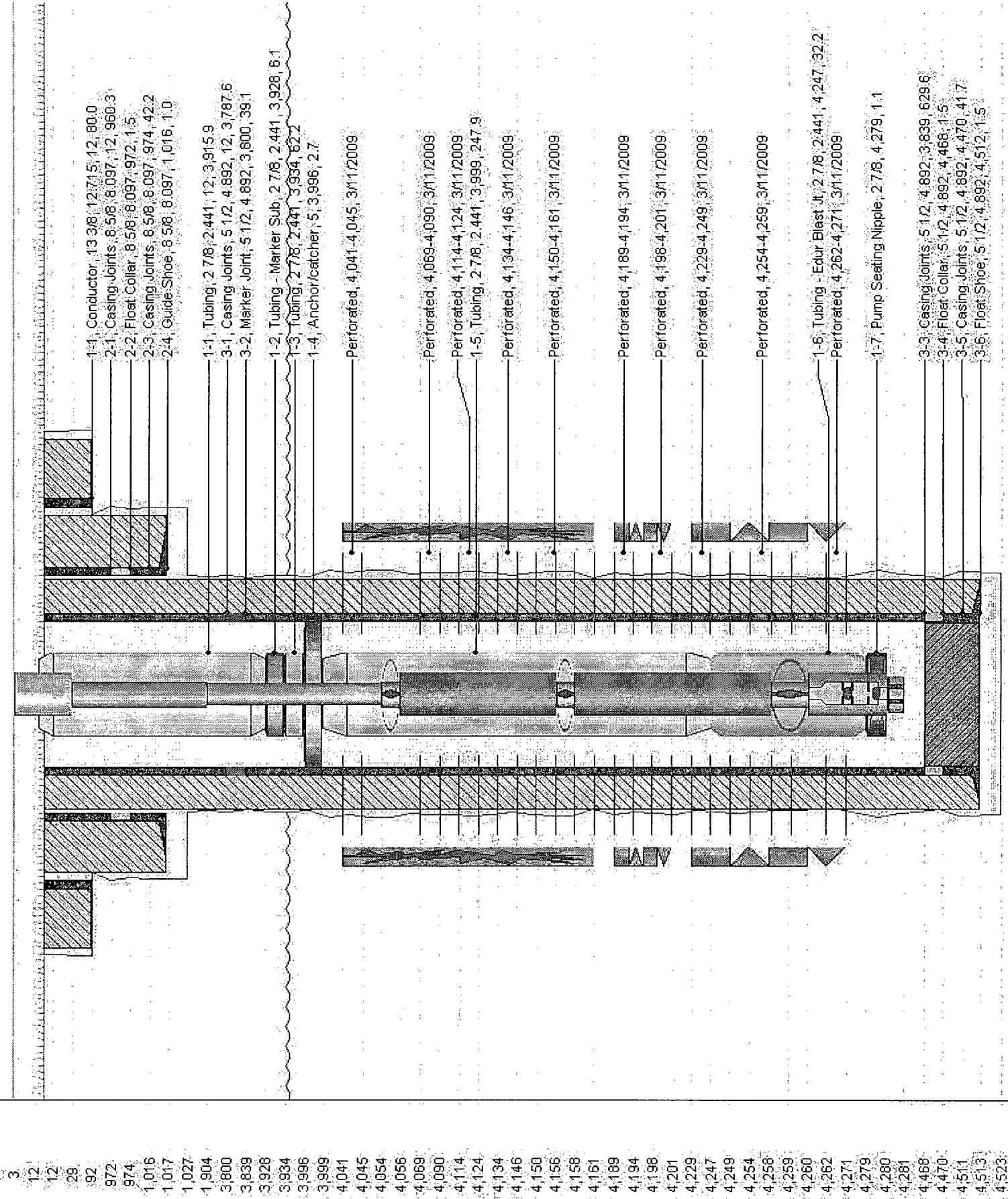
| API            | LEASE NAME          | WELL # | SPUD DATE  | TD DEPTH | STATUS | SEC | TWP | RANGE | FOOTAGE | NIS | SURFACE CASING |             |      | INTERMEDIATE CASING |         |           | PRODUCTION CASING |      |     | LINER  |      |       |        |      |        |      |       |      |             |              |
|----------------|---------------------|--------|------------|----------|--------|-----|-----|-------|---------|-----|----------------|-------------|------|---------------------|---------|-----------|-------------------|------|-----|--------|------|-------|--------|------|--------|------|-------|------|-------------|--------------|
|                |                     |        |            |          |        |     |     |       |         |     | SKS            | DEPTH       | CMT  | TOP                 | METHOD  | SKS       | DEPTH             | CMT  | TOP | METHOD | SKS  | DEPTH | CMT    | TOP  | METHOD | SKS  | DEPTH | CMT  | TOP         |              |
|                |                     |        |            |          |        |     |     |       |         |     |                |             |      |                     |         |           |                   |      |     |        |      |       |        |      |        |      |       |      |             | SIZE         |
| 30025006390000 | MCA UNIT            | 84     | 11/17/1939 | 4090     | ACTIVE | 22  | 17  | 32    | 660     | FSL | 660            | FEL 12-3/4" | 20   | 20                  | SURFACE | CIRCULATE | 7"                | 3554 | 400 | 400    | 350  | 3775  | 4-1/2" | 3775 | 4-1/2" | 4087 | 200   | 3476 | CIRCULATE   | TOP OF LINER |
| 30025006490000 | MCA UNIT            | 83     | 8/31/1958  | 4153     | ACTIVE | 23  | 17  | 32    | 660     | FSL | 560            | FWL 10-3/4" | 106  | 125                 | SURFACE | CIRCULATE | -                 | -    | -   | -      | 1200 | 4151  | 7"     | 4151 | 7"     | -    | -     | -    | -           | -            |
| 30025006990000 | MCA UNIT            | 142    | 12/1/1941  | 4280     | ACTIVE | 26  | 17  | 32    | 1980    | FNL | 1980           | FEL 8-1/4"  | 985  | 50                  | NR      | NR        | 7"                | 3636 | 200 | 200    | 350  | 4081  | 5-1/2" | 4081 | 5-1/2" | -    | -     | -    | -           | -            |
| 30025007010000 | MCA UNIT            | 189    | 8/17/1940  | 4280     | ACTIVE | 26  | 17  | 32    | 1980    | FSL | 1980           | FEL 8-5/8"  | 1065 | 50                  | NR      | NR        | 7"                | 3734 | 100 | 100    | 350  | 3891  | 4-1/2" | 3891 | 4-1/2" | -    | -     | -    | -           | -            |
| 30025007050000 | MCA UNIT            | 123    | 8/18/1939  | 4029     | ACTIVE | 26  | 17  | 32    | 660     | FNL | 660            | FWL 12-1/2" | 20   | 16                  | SURFACE | CIRCULATE | 5-3/4"            | 3525 | 200 | 2190   | 175  | 3618  | 4-1/2" | 3618 | 4-1/2" | 4148 | 180   | NR   | ESTIMATE    | NR           |
| 30025007140000 | MCA UNIT            | 145    | 1/1/1940   | 4100     | ACTIVE | 27  | 17  | 32    | 660     | FNL | 660            | FWL 12-1/2" | 20   | 20                  | SURFACE | CIRCULATE | 5-1/2"            | 3540 | 400 | 1530   | 325  | 3765  | 4-1/2" | 3765 | 4-1/2" | 4082 | 120   | NR   | ESTIMATE    | TOP OF LINER |
| 30025007150000 | MCA UNIT            | 121    | 1/20/1940  | 4099     | ACTIVE | 27  | 17  | 32    | 660     | FNL | 1980           | FEL 13-3/8" | 21   | 20                  | SURFACE | CIRCULATE | 7"                | 3542 | 400 | 1820   | 30   | 1000  | 4-1/2" | 1000 | 4-1/2" | 4120 | 88    | 3328 | ESTIMATE    | TOP OF LINER |
| 30025007160000 | MCA UNIT            | 122    | 1/14/1939  | 4089     | ACTIVE | 27  | 17  | 32    | 660     | FNL | 660            | FEL 12-1/2" | 30   | 20                  | SURFACE | CIRCULATE | 7"                | 2385 | 160 | 2100   | 350  | 3547  | 5-1/2" | 3547 | 5-1/2" | 4105 | 280   | 3201 | ESTIMATE    | TOP OF LINER |
| 30025007170000 | MCA UNIT            | 146    | 10/1/1939  | 4045     | ACTIVE | 27  | 17  | 32    | 1980    | FSL | 1980           | FEL 12-1/2" | 21   | 15                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 250  | 3529  | 5-1/2" | 3529 | 5-1/2" | 4121 | 410   | 3373 | ESTIMATE    | TOP OF LINER |
| 30025007180000 | MCA UNIT            | 184    | 12/12/1939 | 4009     | ACTIVE | 27  | 17  | 32    | 1980    | FSL | 1980           | FEL 12-1/2" | 20   | 25                  | SURFACE | CIRCULATE | 5-1/2"            | 3566 | 250 | 2530   | 410  | 3535  | 4-1/2" | 3535 | 4-1/2" | 4163 | 410   | -    | -           | -            |
| 30025007200000 | MCA UNIT            | 120    | 2/13/1940  | 3955     | ACTIVE | 27  | 17  | 32    | 660     | FNL | 1980           | FWL 12-1/2" | 21   | 14                  | SURFACE | CIRCULATE | 5-1/2"            | 3536 | 250 | 2500   | 350  | 3552  | 4-1/2" | 3552 | 4-1/2" | 4329 | 200   | 3348 | TEMP SURVEY | TOP OF LINER |
| 30025007230000 | MCA UNIT            | 204    | 5/19/1940  | 4132     | ACTIVE | 27  | 17  | 32    | 660     | FSL | 1980           | FWL 12-1/2" | 30   | 25                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 200  | 3552  | 5-1/2" | 3552 | 5-1/2" | 4180 | 255   | 3498 | TEMP SURVEY | CIRCULATE    |
| 30025007240000 | MCA UNIT            | 181    | 4/20/1940  | 4086     | ACTIVE | 27  | 17  | 32    | 1980    | FSL | 1980           | FWL 12-1/2" | 21   | 25                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 200  | 3822  | 4-1/2" | 3822 | 4-1/2" | 4170 | 100   | 3498 | ESTIMATE    | TOP OF LINER |
| 30025007290000 | MCA UNIT            | 206    | 7/16/1940  | 3879     | ACTIVE | 27  | 17  | 32    | 660     | FSL | 660            | FWL 8-5/8"  | 288  | 50                  | SURFACE | CIRCULATE | 5-1/2"            | 3539 | 250 | 2000   | 300  | 3793  | 4-1/2" | 3793 | 4-1/2" | 4150 | 90    | 3389 | ESTIMATE    | TOP OF LINER |
| 30025007300000 | MCA UNIT            | 180    | 7/16/1940  | 4002     | ACTIVE | 27  | 17  | 32    | 660     | FSL | 660            | FWL 8-5/8"  | 294  | 50                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 200  | 3901  | 4-1/2" | 3901 | 4-1/2" | 4120 | 125   | NR   | ESTIMATE    | NR           |
| 30025007320000 | MCA UNIT            | 183    | 12/11/1947 | 4075     | ACTIVE | 27  | 17  | 32    | 1295    | FSL | 2615           | FEL 8-5/8"  | 1132 | 100                 | SURFACE | CIRCULATE | -                 | -    | -   | -      | 250  | 3733  | 5-1/2" | 3733 | 5-1/2" | 3745 | 60    | 300  | TEMP SURVEY | TOP OF LINER |
| 30025007320000 | MCA UNIT            | 185    | 8/17/1954  | 4274     | ACTIVE | 27  | 17  | 32    | 1345    | FSL | 1345           | FEL 8-5/8"  | 66   | 100                 | SURFACE | CIRCULATE | -                 | -    | -   | -      | 1500 | 4265  | 5-1/2" | 4265 | 5-1/2" | -    | -     | -    | -           | -            |
| 30025007360000 | MCA UNIT            | 152    | 6/17/1940  | 3810     | ACTIVE | 28  | 17  | 32    | 1980    | FNL | 1980           | FWL 12-1/2" | 30   | 15                  | SURFACE | CIRCULATE | 5-1/2"            | 3620 | 300 | 2200   | 300  | 4061  | 4"     | 4061 | 4"     | 4145 | 300   | 3216 | ESTIMATE    | TOP OF LINER |
| 30025007380000 | MCA UNIT            | 118    | 7/16/1940  | 3845     | ACTIVE | 28  | 17  | 32    | 660     | FNL | 660            | FWL 12-1/2" | 23   | 15                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 200  | 3548  | 5-1/2" | 3548 | 5-1/2" | 4141 | 160   | 3214 | ESTIMATE    | TOP OF LINER |
| 30025007390000 | MCA UNIT            | 231    | 7/31/1940  | 3806     | ACTIVE | 28  | 17  | 32    | 1980    | FNL | 1980           | FWL 12-1/2" | 20   | 14                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 300  | 3555  | 5-1/2" | 3555 | 5-1/2" | 4112 | 160   | 3214 | ESTIMATE    | TOP OF LINER |
| 30025007400000 | MCA UNIT            | 150    | 8/14/1940  | 4103     | ACTIVE | 28  | 17  | 32    | 1980    | FNL | 660            | FWL 12-1/2" | 21   | 15                  | SURFACE | CIRCULATE | 5-1/2"            | 3545 | 300 | 2127   | 300  | 3793  | 4-1/2" | 3793 | 4-1/2" | 4150 | 90    | 3389 | ESTIMATE    | TOP OF LINER |
| 30025007420000 | MCA UNIT            | 176    | 9/17/1940  | 4032     | ACTIVE | 28  | 17  | 32    | 1980    | FSL | 1980           | FWL 12-1/2" | 23   | 15                  | SURFACE | CIRCULATE | 5-1/2"            | 3580 | 300 | 4081   | 125  | 3228  | 4"     | 4081 | 4"     | -    | -     | -    | -           | -            |
| 30025007450000 | MCA UNIT            | 382    | 8/10/1961  | 9880     | ACTIVE | 28  | 17  | 32    | 2120    | FSL | 519            | FEL 13-3/8" | 360  | 100                 | SURFACE | CIRCULATE | -                 | -    | -   | -      | 1800 | 4576  | 8-3/8" | 4576 | 8-3/8" | 9180 | 350   | 5370 | ESTIMATE    | SURVEY       |
| 30025007630000 | MCA UNIT            | 211    | 4/26/1941  | 4013     | ACTIVE | 29  | 17  | 32    | 660     | FSL | 660            | FEL 8-5/8"  | 1059 | 50                  | SURFACE | CIRCULATE | 5-1/2"            | 3593 | 450 | 1720   | 125  | 2960  | 4-1/2" | 3820 | 4-1/2" | 4120 | 80    | 3361 | ESTIMATE    | TOP OF LINER |
| 30025007890000 | HOOPER-STATE        | 1      | 9/6/1940   | 3955     | ACTIVE | 32  | 17  | 32    | 660     | FNL | 660            | FEL 8-1/4"  | 1040 | 50                  | NR      | NR        | -                 | -    | -   | -      | 100  | 3301  | 7"     | 3301 | 7"     | -    | -     | -    | -           | -            |
| 30025008000000 | MCA UNIT            | 223    | 1/23/1941  | 4051     | ACTIVE | 33  | 17  | 32    | 660     | FNL | 1980           | FEL 8"      | 67   | 15                  | SURFACE | CIRCULATE | 5-1/2"            | 3558 | 250 | 290    | 300  | 3548  | 4-1/2" | 3548 | 4-1/2" | 4138 | 150   | 3525 | ESTIMATE    | TOP OF LINER |
| 30025008030000 | MCA UNIT            | 231    | 6/18/1954  | 4288     | ACTIVE | 33  | 17  | 32    | 1345    | FNL | 2615           | FEL 8-5/8"  | 67   | 30                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 3236 | 4274  | 5-1/2" | 4274 | 5-1/2" | -    | -     | -    | -           | -            |
| 30025008080000 | MCA UNIT            | 233    | 10/25/1945 | 4165     | ACTIVE | 33  | 17  | 32    | 1880    | FNL | 660            | FWL 8-5/8"  | 1078 | 50                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 200  | 3768  | 7"     | 3768 | 7"     | -    | -     | -    | -           | -            |
| 30025008210000 | PEARSALL B          | 5      | 11/16/1941 | 4316     | ACTIVE | 34  | 17  | 32    | 660     | FNL | 660            | FEL 9"      | 30   | 10                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 150  | 3709  | 5-1/2" | 3709 | 5-1/2" | -    | -     | -    | -           | -            |
| 30025008220000 | PEARSALL FEDERAL BX | 2      | 7/29/1954  | 3560     | ACTIVE | 34  | 17  | 32    | 1345    | FNL | 1295           | FEL 8-5/8"  | 61   | 75                  | SURFACE | CIRCULATE | -                 | -    | -   | -      | 1450 | 3515  | 5-1/2" | 3515 | 5-1/2" | -    | -     | -    | -           | -            |
| 30025127690000 | MCA UNIT            | 116    |            |          |        |     |     |       |         |     |                |             |      |                     |         |           |                   |      |     |        |      |       |        |      |        |      |       |      |             |              |

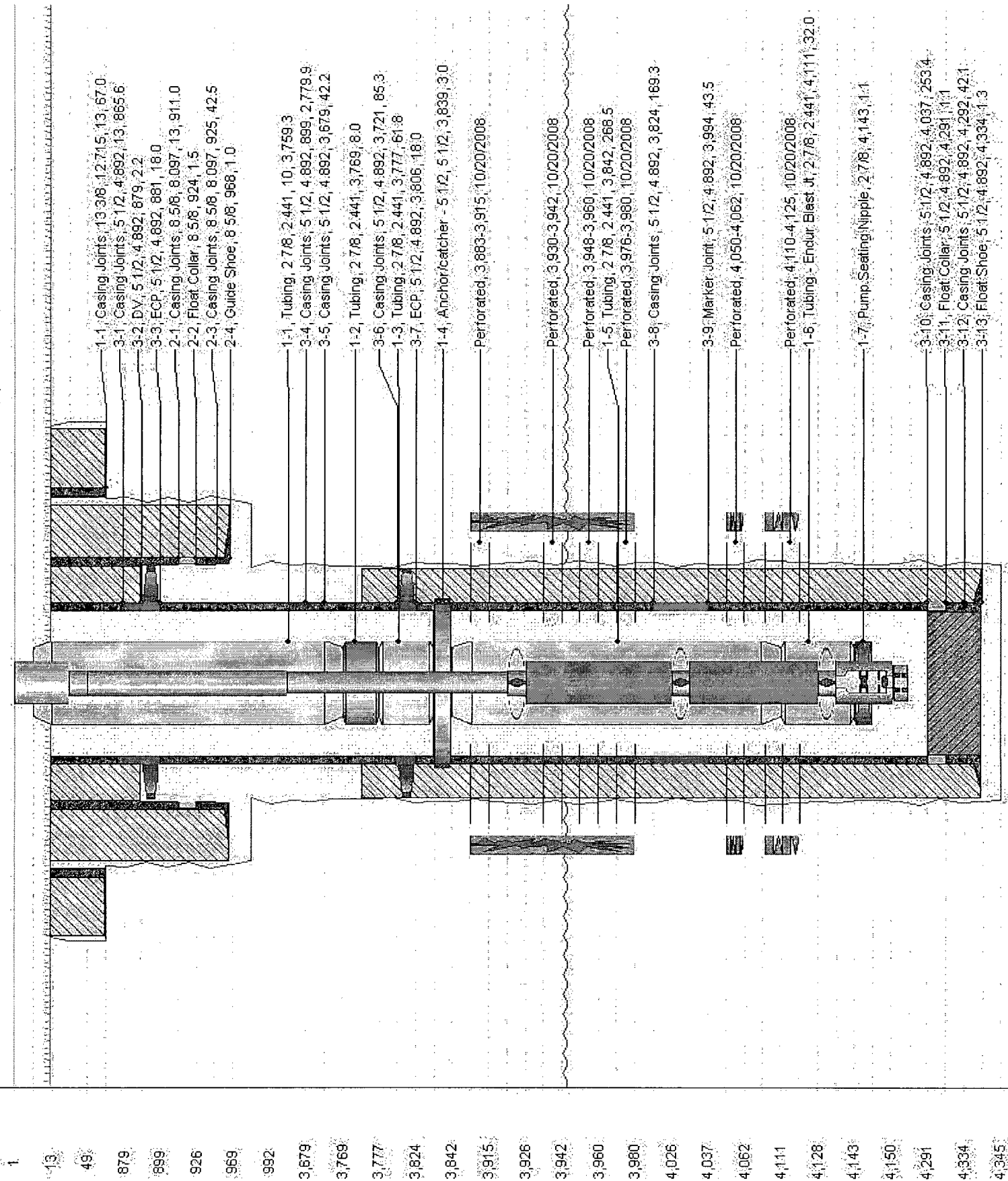
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|----------------|--------------------|-----|------------|------|----------|----|----|----|------|-----|------|-------------|------|-----|---------|-----------|--------|------|----|--------|--------|------|---------|-------------|----|---|---|--------------|---|
| 30025388550000 | MCA UNIT           | 402 | 8/5/2008   | 4477 | ACTIVE   | 26 | 17 | 32 | 2630 | FSL | 761  | FWL 8-5/8"  | 975  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4466   | 870  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388560000 | MCA UNIT           | 411 | 10/12/2008 | 4240 | ACTIVE   | 33 | 17 | 32 | 10   | FNL | 1896 | FWL 8-5/8"  | 969  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4335   | 800  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388590000 | MCA UNIT           | 405 | 8/13/2008  | 4440 | ACTIVE   | 34 | 17 | 32 | 160  | FNL | 1936 | FWL 8-5/8"  | 1056 | 900 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4563   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388500000 | MCA UNIT           | 406 | 8/22/2008  | 4410 | ACTIVE   | 34 | 17 | 32 | 659  | FNL | 1936 | FWL 8-5/8"  | 1049 | 650 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4521   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388720000 | MCA UNIT           | 399 | 12/8/2008  | 4455 | ACTIVE   | 27 | 17 | 32 | 2130 | FSL | 1330 | FWL 8-5/8"  | 959  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4338   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388730000 | MCA UNIT           | 400 | 11/29/2008 | 4450 | ACTIVE   | 27 | 17 | 32 | 2505 | FSL | 1330 | FWL 8-5/8"  | 960  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4275   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388770000 | MCA UNIT           | 408 | 1/19/2009  | 4476 | ACTIVE   | 27 | 17 | 32 | 1310 | FSL | 660  | FEL 8-5/8"  | 1027 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4466   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388780000 | MCA UNIT           | 409 | 11/23/2008 | 4476 | ACTIVE   | 27 | 17 | 32 | 2130 | FSL | 1330 | FWL 8-5/8"  | 960  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4293   | 1000 | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388810000 | MCA UNIT           | 410 | 10/31/2008 | 3944 | ACTIVE   | 28 | 17 | 32 | 660  | FSL | 1410 | FWL 8-5/8"  | 970  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4340   | 800  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388820000 | MCA UNIT           | 412 | 10/4/2008  | 4465 | ACTIVE   | 33 | 17 | 32 | 10   | FNL | 2150 | FEL 8-5/8"  | 1072 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4606   | 800  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388830000 | MCA UNIT           | 413 | 1/14/2009  | 4476 | ACTIVE   | 34 | 17 | 32 | 10   | FNL | 1880 | FEL 8-5/8"  | 1025 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4499   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388820000 | MCA UNIT           | 414 | 1/4/2009   | 4510 | ACTIVE   | 27 | 17 | 32 | 660  | FSL | 2630 | FEL 8-5/8"  | 1025 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4402   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388830000 | MCA UNIT           | 415 | 1/9/2009   | 4412 | ACTIVE   | 27 | 17 | 32 | 1310 | FSL | 2055 | FWL 8-5/8"  | 1029 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4402   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388840000 | MCA UNIT           | 416 | 9/22/2008  | 4575 | ACTIVE   | 27 | 17 | 32 | 660  | FSL | 1330 | FWL 8-5/8"  | 1014 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4455   | 720  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388850000 | MCA UNIT           | 417 | 12/29/2008 | 4466 | ACTIVE   | 27 | 17 | 32 | 90   | FSL | 660  | FWL 8-5/8"  | 1045 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4456   | 700  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388860000 | MCA UNIT           | 418 | 12/15/2008 | 4380 | ACTIVE   | 27 | 17 | 32 | 1310 | FSL | 660  | FWL 8-5/8"  | 970  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4364   | 750  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388870000 | MCA UNIT           | 419 | 12/22/2008 | 4375 | ACTIVE   | 27 | 17 | 32 | 660  | FSL | 145  | FWL 8-5/8"  | 1007 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4360   | 715  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388880000 | MCA UNIT           | 421 | 11/16/2008 | 4430 | ACTIVE   | 28 | 17 | 32 | 1210 | FSL | 525  | FEL 8-5/8"  | 934  | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4312   | 800  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025388890000 | MCA UNIT           | 420 | 11/5/2008  | 4510 | INACTIVE | 33 | 17 | 32 | 10   | FNL | 525  | FEL 8-5/8"  | 1016 | 570 | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4374   | 1000 | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025006980000 | JOHNS B            | 3   | 9/22/1947  | 4325 | INACTIVE | 26 | 17 | 32 | 660  | FSL | 1980 | FEL 8-5/8"  | 1259 | 50  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4322   | 500  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025008020000 | PEARSALL A         | 7   | 4/1/1941   | 4075 | INACTIVE | 33 | 17 | 32 | 1980 | FNL | 660  | FEL 12-1/2" | 30   | 5   | NR      | NR        | 8-1/4" | 1232 | 50 | NR     | 5-1/2" | 3559 | 350     | NR          | NR | - | - | -            | - |
| 30025006430000 | MCA UNIT           | 85  | 2/23/1940  | 4093 | PA       | 22 | 17 | 32 | 660  | FSL | 1980 | FEL 12-1/2" | 20   | 20  | SURFACE | CIRCULATE | -      | -    | -  | 7"     | 3554   | 400  | 2600    | ESTIMATE    | -  | - | - | TOP OF LINER |   |
| 30025006430000 | MILLER             | 3   | 5/21/1936  | 3900 | PA       | 23 | 17 | 32 | 660  | FSL | 660  | FWL 8"      | 880  | NR  | NR      | NR        | NR     | -    | -  | 4"     | 2540   | 100  | NR      | NR          | -  | - | - | TOP OF LINER |   |
| 30025006440000 | MCA UNIT           | 82  | 12/31/1939 | 4065 | PA       | 23 | 17 | 32 | 660  | FSL | 1980 | FWL 12-1/2" | 21   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3585   | 200  | 2061    | CALCULATE   | -  | - | - | -            |   |
| 30025006450000 | MILLER-FEDERAL A   | 7   | 10/14/1940 | 4035 | PA       | 23 | 17 | 32 | 710  | FSL | 660  | FWL 8-1/4"  | 1159 | 150 | NR      | NR        | -      | -    | -  | 5-1/2" | 3580   | 150  | NR      | NR          | -  | - | - | -            |   |
| 30025006960000 | MILLER             | 1   | 3/30/1960  | 8850 | PA       | 26 | 17 | 32 | 330  | FSL | 2310 | FWL 13-3/8" | 345  | 375 | SURFACE | CIRCULATE | -      | -    | -  | 8-5/8" | 4517   | 950  | 2200    | TEMP SURVEY | -  | - | - | -            |   |
| 30025007040000 | MCA UNIT           | 187 | 8/16/1940  | 4073 | PA       | 26 | 17 | 32 | 1980 | FSL | 660  | FWL 8-5/8"  | 282  | 50  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3559   | 250  | 2000    | CALCULATE   | -  | - | - | -            |   |
| 30025007060000 | MCA UNIT           | 124 | 4/18/1940  | 4165 | PA       | 26 | 17 | 32 | 660  | FNL | 1980 | FWL 8-1/4"  | 1020 | 150 | SURFACE | CIRCULATE | -      | -    | -  | 5-3/4" | 3553   | 200  | 2200    | CALCULATE   | -  | - | - | TOP OF LINER |   |
| 30025007070000 | MCA UNIT           | 202 | 2/24/1941  | 4170 | PA       | 26 | 17 | 32 | 660  | FSL | 660  | FWL 8-5/8"  | 22   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3486   | 100  | 2400    | CALCULATE   | -  | - | - | -            |   |
| 30025007080000 | MCA UNIT           | 249 | 3/2/1942   | 4360 | PA       | 26 | 17 | 32 | 660  | FSL | 1980 | FWL 8-5/8"  | 31   | 13  | SURFACE | CIRCULATE | -      | -    | -  | 4-1/2" | 4101   | 75   | 3700    | CALCULATE   | -  | - | - | -            |   |
| 30025007090000 | MCA UNIT           | 188 | 4/4/1941   | 4311 | PA       | 26 | 17 | 32 | 1980 | FSL | 1980 | FWL 8"      | 21   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3482   | 250  | 2300    | CALCULATE   | -  | - | - | CALCULATE    |   |
| 30025007100000 | MCA UNIT           | 201 | 8/6/1948   | 4132 | PA       | 26 | 17 | 32 | 1295 | FSL | 1370 | FWL 8-5/8"  | 1187 | 75  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3856   | 100  | 2300    | CALCULATE   | -  | - | - | -            |   |
| 30025007110000 | MCA UNIT           | 144 | 2/4/1940   | 4115 | PA       | 26 | 17 | 32 | 1980 | FNL | 660  | FWL 12-1/4" | 20   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3536   | 200  | 2500    | ESTIMATE    | -  | - | - | -            |   |
| 30025007120000 | MCA UNIT           | 143 | 6/18/1941  | 4095 | PA       | 26 | 17 | 32 | 1980 | FNL | 1980 | FWL 8-5/8"  | 21   | 10  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3640   | 200  | 2690    | ESTIMATE    | -  | - | - | -            |   |
| 30025007130000 | USA-MILLER         | 1   | 3/17/1961  | 9715 | PA       | 26 | 17 | 32 | 1980 | FSL | 2310 | FWL 13-3/8" | 313  | NR  | SURFACE | CIRCULATE | -      | -    | -  | 4-1/2" | 8862   | 600  | NR      | NR          | -  | - | - | -            |   |
| 30025007190000 | MCA UNIT           | 147 | 12/16/1939 | 4100 | PA       | 27 | 17 | 32 | 1980 | FNL | 1940 | FWL 12-1/2" | 20   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3543   | 250  | 2500    | CALCULATE   | -  | - | - | TOP OF LINER |   |
| 30025007210000 | MCA UNIT           | 186 | 3/8/1940   | 4094 | PA       | 27 | 17 | 32 | 1980 | FSL | 660  | FEL 12-1/2" | 20   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3555   | 200  | 2600    | CALCULATE   | -  | - | - | TOP OF LINER |   |
| 30025007220000 | MCA UNIT           | 148 | 3/13/1940  | 4140 | PA       | 27 | 17 | 32 | 1980 | FNL | 660  | FWL 12-1/2" | 20   | 23  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3543   | 250  | 2500    | TEMP SURVEY | -  | - | - | -            |   |
| 30025007250000 | MCA UNIT           | 203 | 6/18/1940  | 4152 | PA       | 27 | 17 | 32 | 660  | FSL | 660  | FEL 8-5/8"  | 249  | 50  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3522   | 250  | 2200    | TEMP SURVEY | -  | - | - | -            |   |
| 30025007260000 | MCA UNIT           | 119 | 5/19/1940  | 3994 | PA       | 27 | 17 | 32 | 660  | FNL | 660  | FWL 12-1/2" | 23   | 25  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3556   | 200  | 2200    | CALCULATE   | -  | - | - | TOP OF LINER |   |
| 30025007270000 | MCA UNIT           | 205 | 10/18/1940 | 4194 | PA       | 27 | 17 | 32 | 660  | FSL | 660  | FWL 8-5/8"  | 307  | 50  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 4194   | 55   | 3910    | CBL         | -  | - | - | -            |   |
| 30025007310000 | QUEEN B            | 1   | 6/2/1948   | 3357 | PA       | 27 | 17 | 32 | 1249 | FSL | 2606 | FEL 10-3/4" | 764  | NR  | NR      | NR        | 8-5/8" | -    | -  | -      | 4"     | 4194 | 150     | NR          | NR | - | - | -            | - |
| 30025007310000 | MCA UNIT           | 117 | 6/2/1940   | 4100 | PA       | 28 | 17 | 32 | 660  | FNL | 1980 | FEL 12-1/2" | 31   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3663   | 200  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025007410000 | MCA UNIT           | 175 | 8/28/1940  | 3864 | PA       | 28 | 17 | 32 | 1980 | FSL | 660  | FWL 12-1/2" | 20   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 4-1/2" | 3796   | 100  | SURFACE | CIRCULATE   | -  | - | - | TOP OF LINER |   |
| 30025007430000 | MCA UNIT           | 178 | 10/17/1940 | 3925 | PA       | 28 | 17 | 32 | 1980 | FSL | 660  | FWL 12-1/4" | 21   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3546   | 300  | 2121    | TEMP SURVEY | -  | - | - | -            |   |
| 30025007440000 | MCA UNIT           | 179 | 9/8/1940   | 4104 | PA       | 28 | 17 | 32 | 1980 | FSL | 660  | FEL 12-1/4" | 22   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 4"     | 3756   | 250  | 80      | TEMP SURVEY | -  | - | - | -            |   |
| 30025007460000 | MCA UNIT           | 207 | 11/24/1940 | 4005 | PA       | 28 | 17 | 32 | 660  | FSL | 660  | FEL 11-3/4" | 21   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 4-1/2" | 3858   | 57   | 3287    | ESTIMATE    | -  | - | - | TOP OF LINER |   |
| 30025007470000 | MCA UNIT           | 208 | 12/11/1940 | 4000 | PA       | 28 | 17 | 32 | 660  | FSL | 1980 | FEL 8"      | 21   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3595   | 300  | 2200    | CALCULATE   | -  | - | - | -            |   |
| 30025007480000 | MCA UNIT           | 209 | 12/5/1940  | 4025 | PA       | 28 | 17 | 32 | 660  | FSL | 1980 | FWL 13-1/2" | 29   | 14  | SURFACE | CIRCULATE | -      | -    | -  | 4"     | 4020   | 300  | SURFACE | CIRCULATE   | -  | - | - | -            |   |
| 30025007490000 | MCA UNIT           | 210 | 11/9/1940  | 3970 | PA       | 28 | 17 | 32 | 660  | FSL | 660  | FWL 12-1/2" | 22   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3563   | 300  | 2700    | CALCULATE   | -  | - | - | -            |   |
| 30025007980000 | MCA UNIT           | 220 | 5/23/1939  | 4283 | PA       | 33 | 17 | 32 | 660  | FNL | 660  | FWL 8-3/4"  | 1195 | 50  | SURFACE | CIRCULATE | -      | -    | -  | 4-1/2" | 3815   | 300  | 125     | TEMP SURVEY | -  | - | - | -            |   |
| 30025007990000 | MCA UNIT           | 221 | 1/14/1941  | 4130 | PA       | 33 | 17 | 32 | 660  | FNL | 1980 | FWL 8-5/8"  | 1206 | 50  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3540   | 100  | 3120    | ESTIMATE    | -  | - | - | -            |   |
| 30025008010000 | MCA UNIT           | 224 | 1/7/1941   | 4209 | PA       | 33 | 17 | 32 | 560  | FNL | 660  | FEL 8-5/8"  | 24   | 15  | SURFACE | CIRCULATE | -      | -    | -  | 5-1/2" | 3547   | 150  | 2200    | CALCULATE   | -  | - | - | -            |   |
| 30025008040000 | PEARSALL-FEDERAL A | 3   | 5/1/1941   | 3396 | PA       | 33 | 17 | 32 | 1980 | FNL | 1980 |             |      |     |         |           |        |      |    |        |        |      |         |             |    |   |   |              |   |

## *Actual Wellbore Diagrams*



0  
12  
13  
26  
34  
80  
914  
915  
958  
959  
969  
1,784  
3,748  
3,756  
3,818  
3,820  
3,821  
3,862  
3,880  
3,909  
3,911  
3,921  
3,927  
3,934  
3,936  
3,938  
3,942  
3,959  
4,002  
4,004  
4,036  
4,038  
4,051  
4,053  
4,080  
4,086  
4,105  
4,112  
4,116  
4,123  
4,127  
4,129  
4,130  
4,138  
4,140  
4,160  
4,160  
4,161  
4,296  
4,297  
4,337  
4,338  
4,348





TKB(MD)

1

13

49

879

899

926

969

992

3,679

3,769

3,777

3,824

3,842

3,915

3,926

3,942

3,960

3,980

4,026

4,037

4,062

4,111

4,128

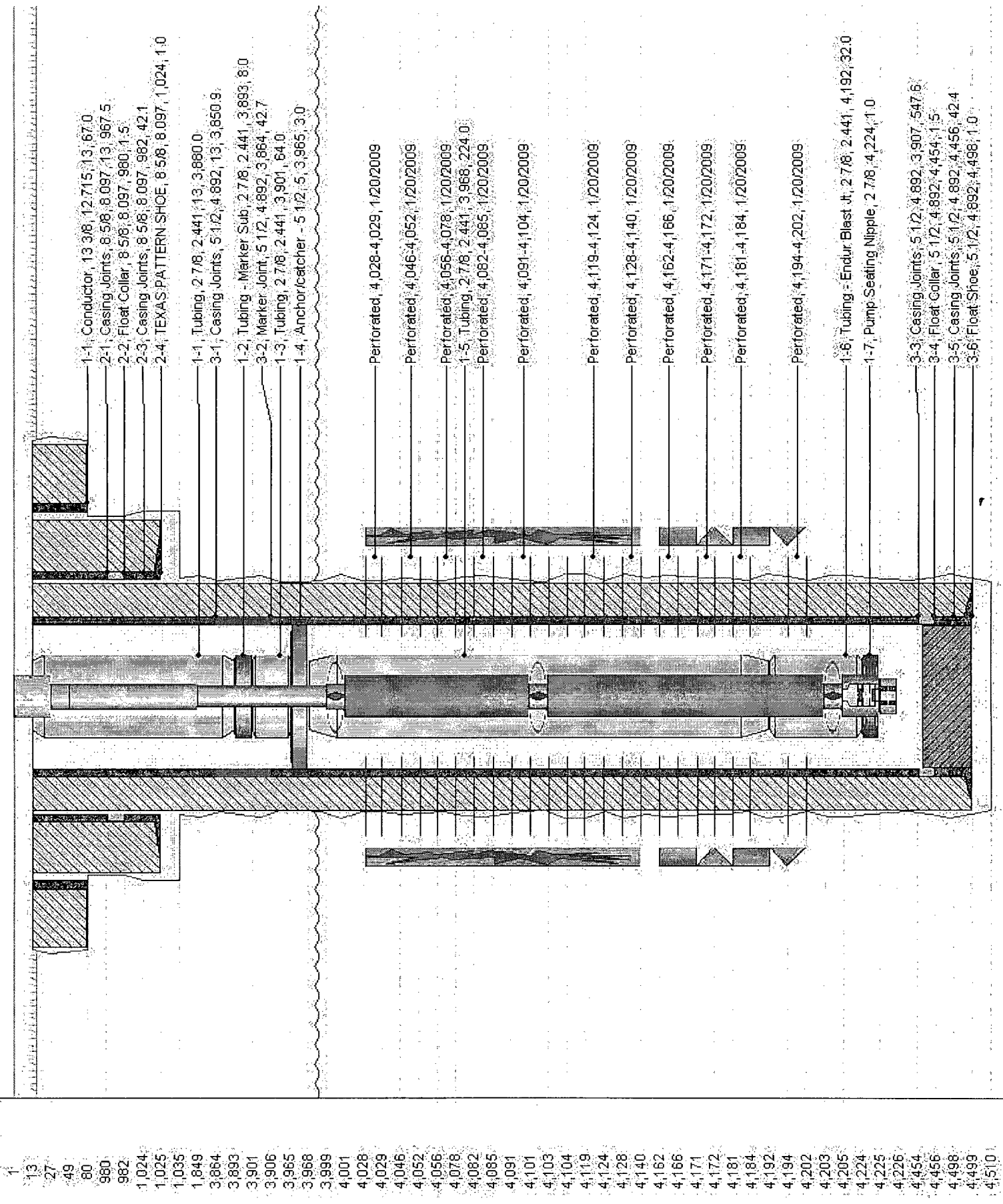
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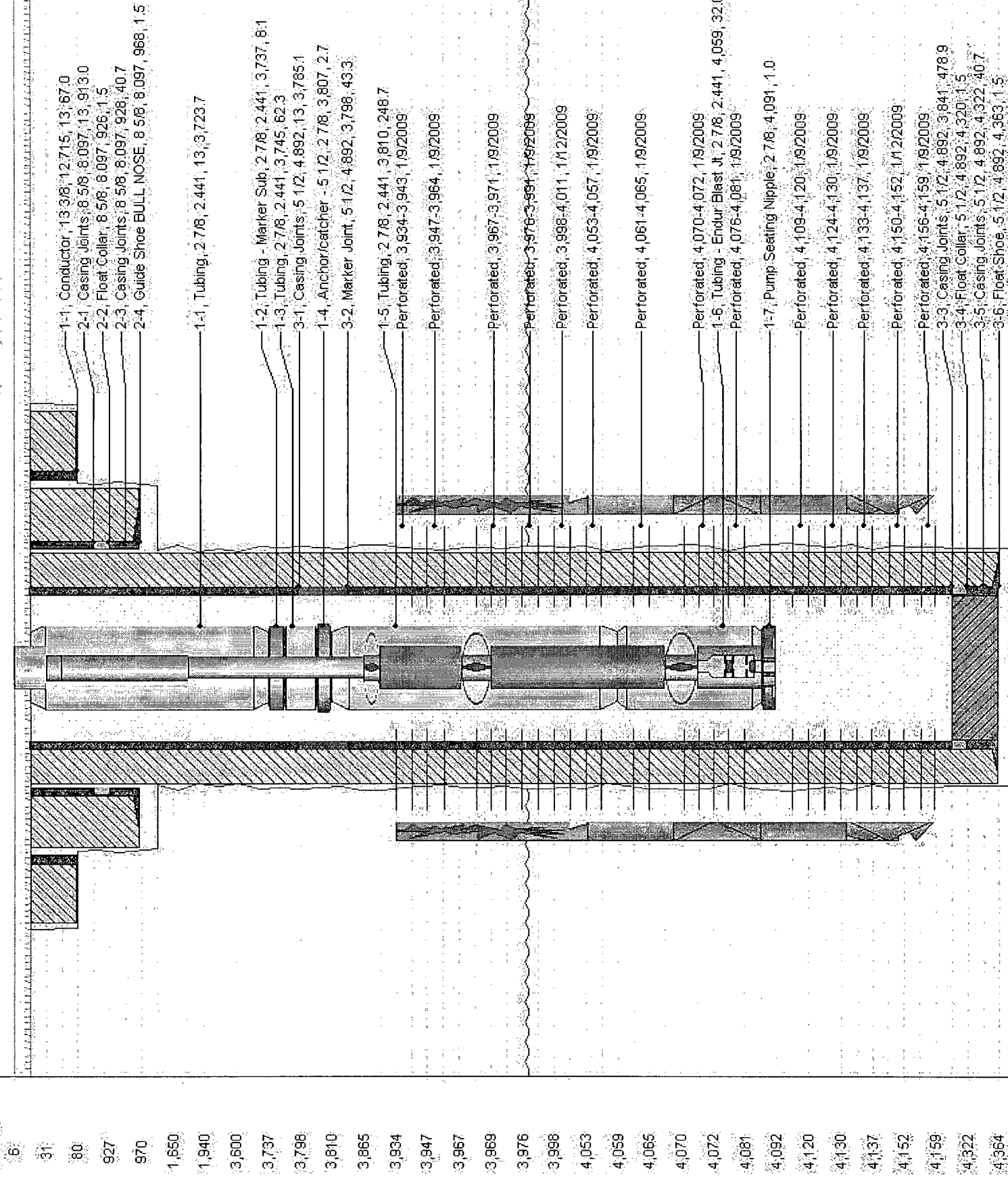
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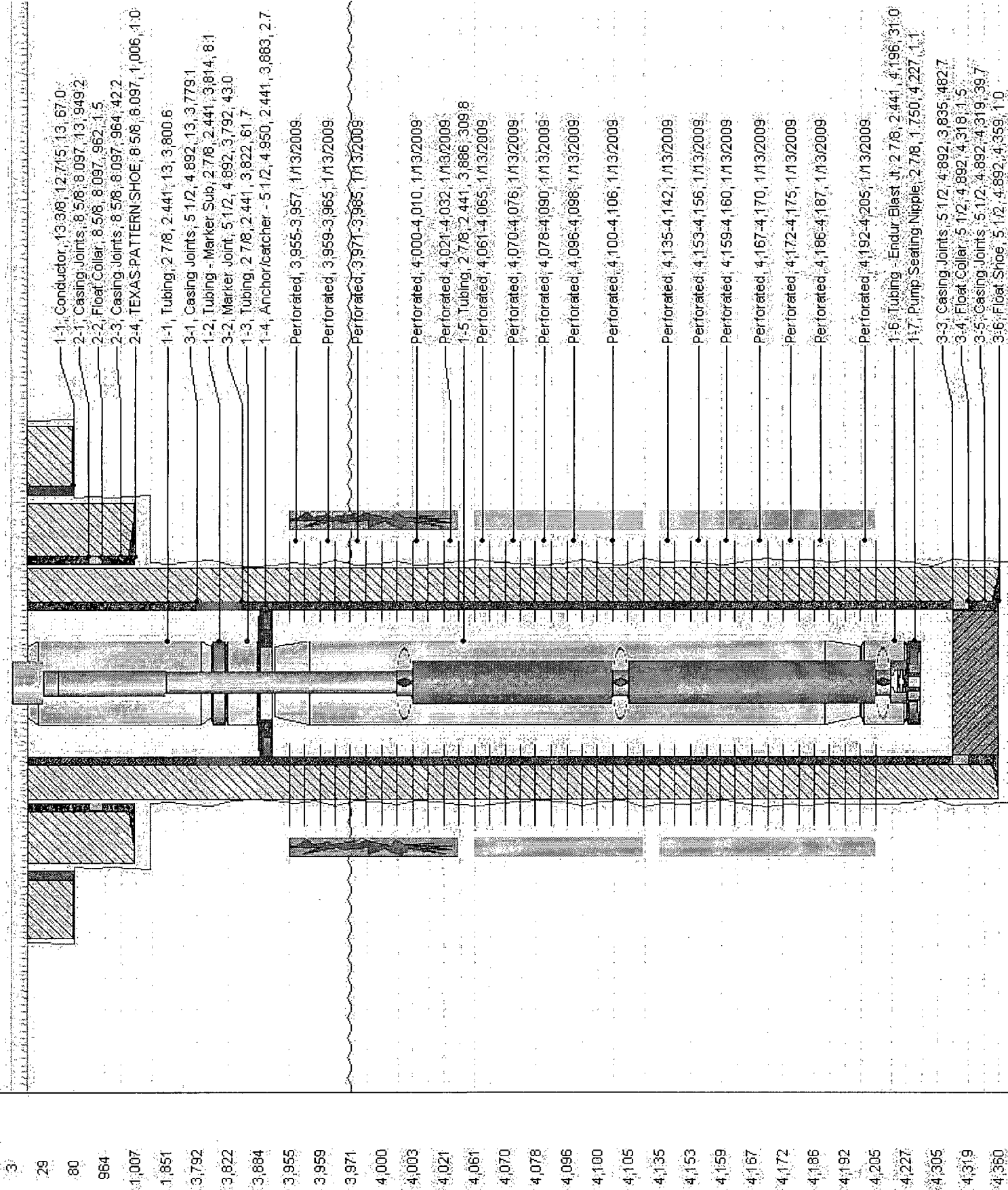




TKB (MD)

6  
 31  
 80  
 927  
 970  
 1,650  
 1,940  
 3,600  
 3,737  
 3,798  
 3,810  
 3,865  
 3,934  
 3,947  
 3,967  
 3,969  
 3,976  
 3,998  
 4,053  
 4,059  
 4,066  
 4,070  
 4,072  
 4,081  
 4,092  
 4,120  
 4,130  
 4,137  
 4,152  
 4,159  
 4,322  
 4,364

TKB (MD)



3

29

80

964

1,007

1,851

3,792

3,822

3,884

3,955

3,959

3,971

4,000

4,003

4,021

4,061

4,070

4,078

4,096

4,100

4,105

4,135

4,153

4,159

4,167

4,172

4,186

4,192

4,205

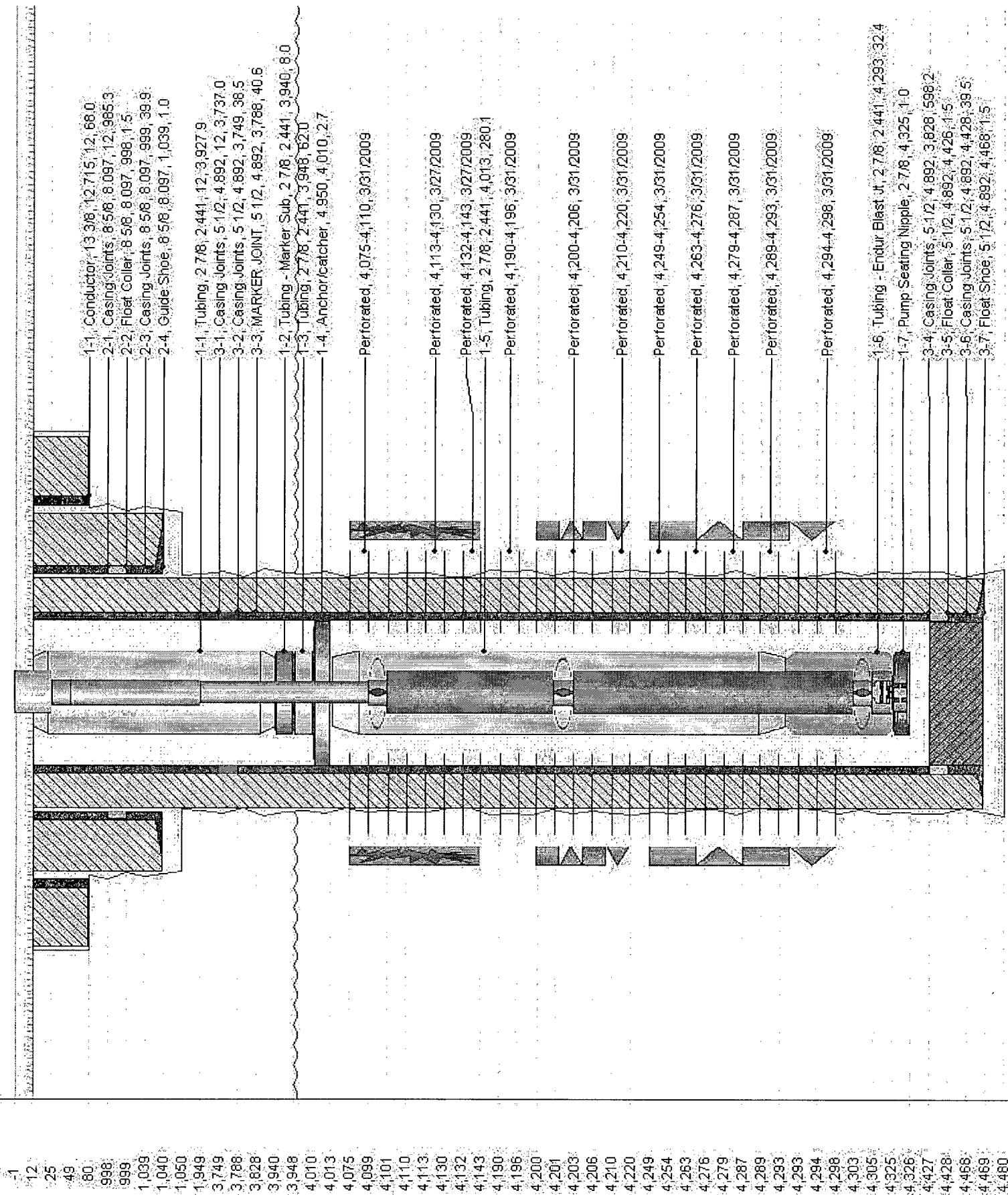
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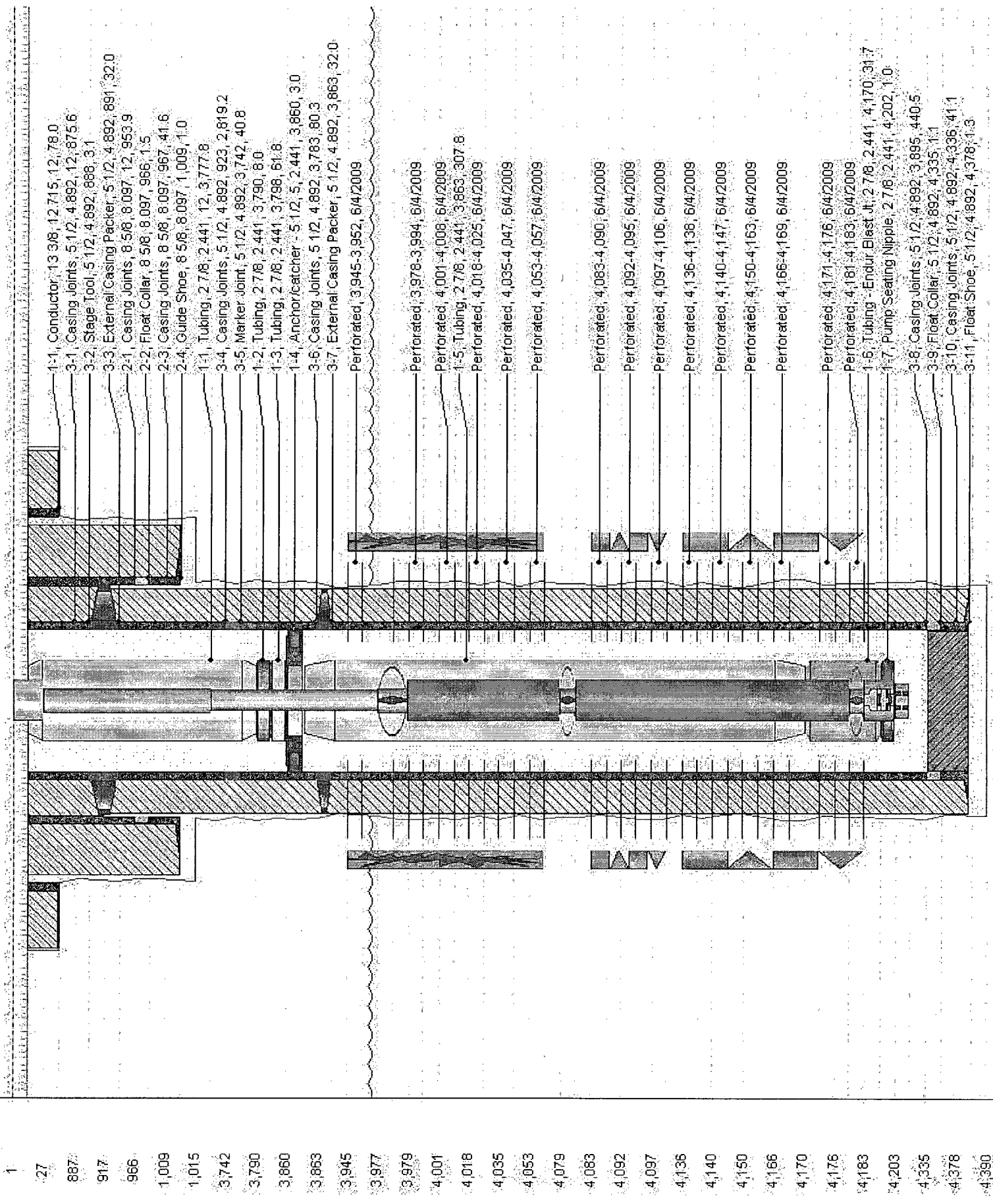
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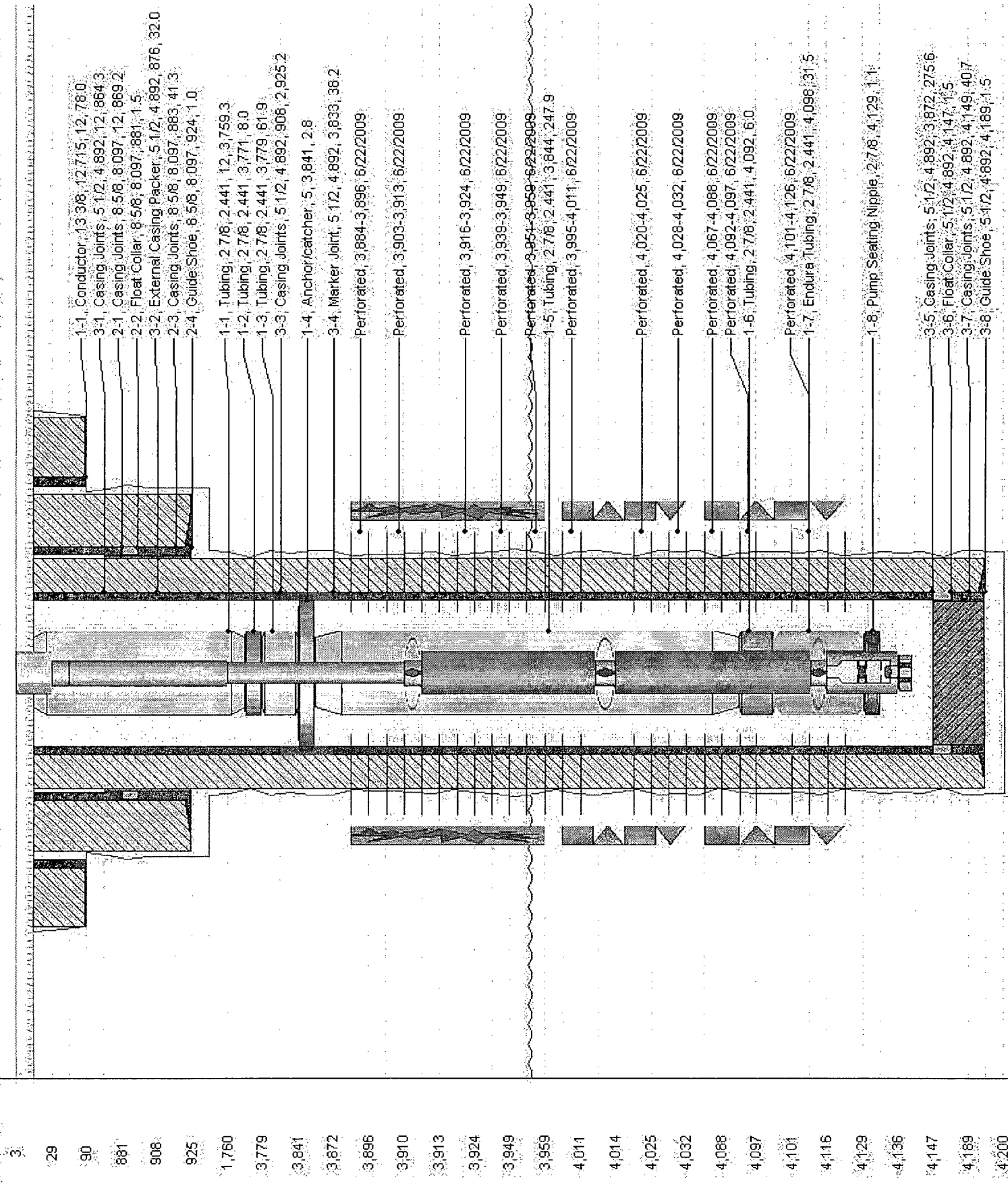






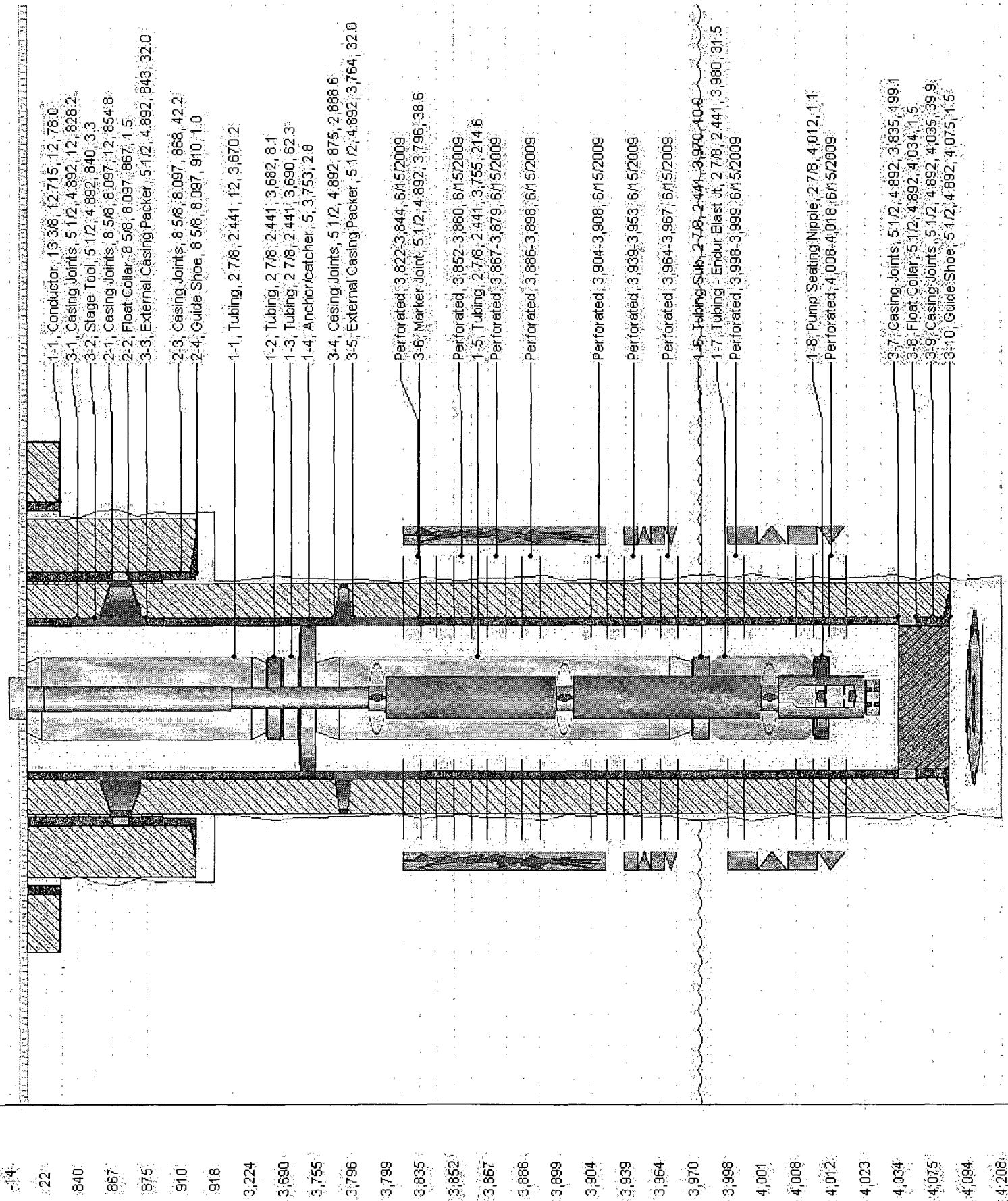
- 1-1, Conductor, 13 3/8, 12 715, 12, 780
- 3-1, Casing Joints, 5 1/2, 4 892, 12, 875.6
- 3-2, Stage Tool, 5 1/2, 4 892, 888, 3.1
- 3-3, External Casing Packer, 5 1/2, 4 892, 891, 32.0
- 2-1, Casing Joints, 8 5/8, 8 097, 12, 953.9
- 2-2, Float Collar, 8 5/8, 8 097, 966, 1.5
- 2-3, Casing Joints, 8 5/8, 8 097, 967, 41.6
- 2-4, Guide Shoe, 8 5/8, 8 097, 1 009, 1.0
- 1-1, Tubing, 2 7/8, 2 441, 12, 3 777.8
- 3-4, Casing Joints, 5 1/2, 4 892, 923, 2 819.2
- 3-5, Marker Joint, 5 1/2, 4 892, 3 742, 40.8
- 1-2, Tubing, 2 7/8, 2 441, 3 790, 8.0
- 1-3, Tubing, 2 7/8, 2 441, 3 798, 61.8
- 1-4, Anchor/catcher - 5 1/2, 5, 2 441, 3 860, 3.0
- 3-6, Casing Joints, 5 1/2, 4 892, 3 783, 80.3
- 3-7, External Casing Packer, 5 1/2, 4 892, 3 863, 32.0
- Perforated, 3 945-3 952, 6/4/2009
- Perforated, 3 978-3 994, 6/4/2009
- Perforated, 4 001-4 008, 6/4/2009
- 1-5, Tubing, 2 7/8, 2 441, 3 863, 307.8
- Perforated, 4 018-4 025, 6/4/2009
- Perforated, 4 035-4 047, 6/4/2009
- Perforated, 4 053-4 057, 6/4/2009
- Perforated, 4 083-4 090, 6/4/2009
- Perforated, 4 092-4 095, 6/4/2009
- Perforated, 4 097-4 106, 6/4/2009
- Perforated, 4 136-4 138, 6/4/2009
- Perforated, 4 140-4 147, 6/4/2009
- Perforated, 4 150-4 163, 6/4/2009
- Perforated, 4 165-4 169, 6/4/2009
- Perforated, 4 171-4 176, 6/4/2009
- Perforated, 4 181-4 183, 6/4/2009
- 1-6, Tubing - Endur Blast Jt, 2 7/8, 2 441, 4 170, 31.7
- 1-7, Pump Seating Nipple, 2 7/8, 2 441, 4 202, 1.0
- 3-8, Casing Joints, 5 1/2, 4 892, 3 895, 440.5
- 3-9, Float Collar, 5 1/2, 4 892, 4 335, 1.1
- 3-10, Casing Joints, 5 1/2, 4 892, 4 336, 41.1
- 3-11, Float Shoe, 5 1/2, 4 892, 4 378, 1.3





THB (MD)

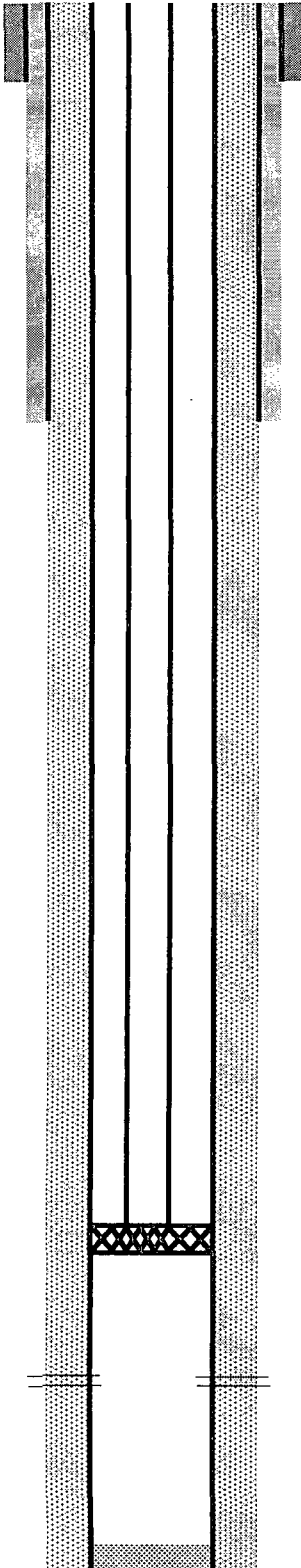
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 3,924  
 3,949  
 3,959  
 4,011  
 4,014  
 4,025  
 4,032  
 4,088  
 4,097  
 4,101  
 4,116  
 4,129  
 4,136  
 4,147  
 4,189  
 4,200



## *Proposed Wellbore Diagrams*

**WELLBORE DIAGRAM**  
**MCA UNIT #399**

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



12-1/4" Hole  
8-5/8" @ 959'  
TOC @ surface  
circulate  
570 sx cmt.

Lease and Well No.:  
Location:

MCA UNIT #399  
Sec. 27, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
12/5/2008  
30-025-38972  
Completed

**Perforations**

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3880-3909 | Sand Fracture |
| 3911-3921 | Sand Fracture |
| 3927-3938 | Sand Fracture |
| 3942-3959 | Sand Fracture |
| 4002-4004 | HCL Acid      |
| 4051-4053 | HCL Acid      |
| 4080-4086 | HCL Acid      |
| 4105-4112 | HCL Acid      |
| 4116-4123 | HCL Acid      |
| 4127-4130 | HCL Acid      |

**Proposed Injection**

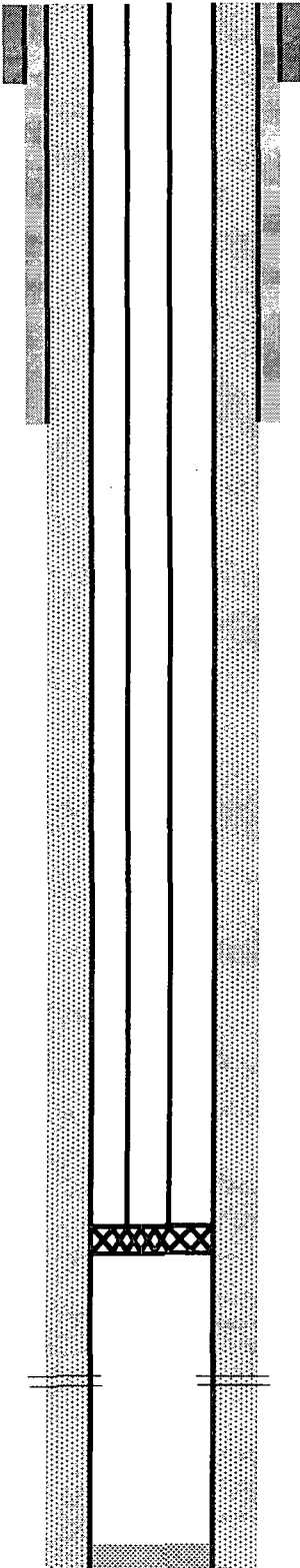
Tubing      2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer      Nickel coated 5-1/2" set within 100 ft of 3880'

7-7/8" Hole  
5-1/2" @ 4337'  
TOC @ surface  
circulated  
700 sxs

T.D.: 4348'

**WELLBORE DIAGRAM**  
**MCA UNIT #404**

17-1/2" Hole  
13-3/8" @ 92'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #404  
Sec. 26, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
2/27/2009  
30-025-38975  
Completed

12-1/4" Hole  
8-5/8" @ 1017'  
TOC @ surface  
circulate  
570 sx cmt.

**Perforations**

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 4041-4045 | Sand Fracture |
| 4069-4090 | Sand Fracture |
| 4114-4124 | Sand Fracture |
| 4134-4146 | Sand Fracture |
| 4150-4161 | HCL Acid      |
| 4189-4194 | HCL Acid      |
| 4198-4201 | HCL Acid      |
| 4229-4249 | HCL Acid      |
| 4254-4259 | HCL Acid      |
| 4262-4271 | HCL Acid      |

**Proposed Injection**

Tubing      2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer      Nickel coated 5-1/2" set within 100 ft of 4041'

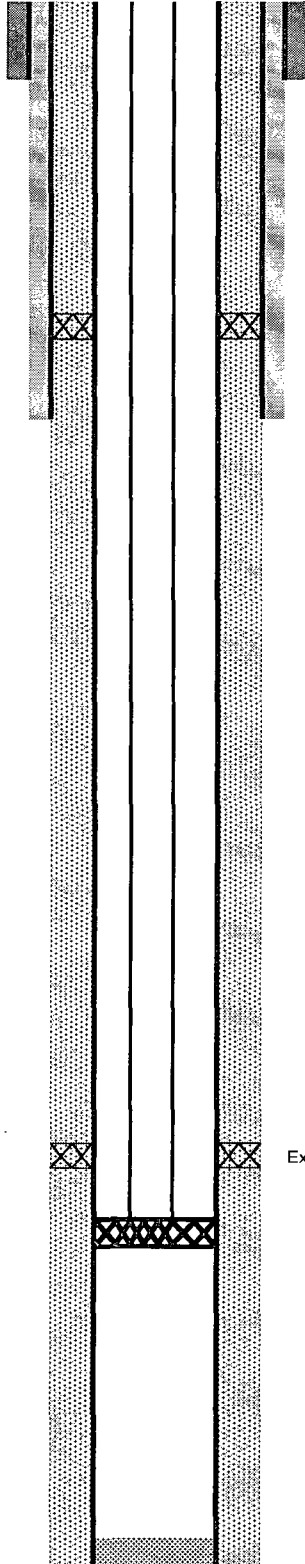
7-7/8" Hole  
5-1/2" @ 4513'  
TOC @ surface  
circulated  
750 sxs

T.D.: 4523'

# WELLBORE DIAGRAM

## MCA UNIT #411

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #411  
Sec. 28, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
9/22/2008  
30-025-38856  
Completed

12-1/4" Hole  
8-5/8" @ 969'  
TOC @ surface  
circulate  
570 sx cmt.

External Casing Packer @ 881-899'

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3883-3915 | Sand Fracture |
| 3930-3942 | Sand Fracture |
| 3948-3960 | Sand Fracture |
| 3976-3980 | Sand Fracture |
| 4050-4062 | HCL Acid      |
| 4110-4125 | HCL Acid      |

### Proposed Injection

Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 3883'

External Casing Packer @ 3806-3824'

7-7/8" Hole  
5-1/2" @ 4334'  
TOC @ surface  
circulated  
800 sxs in first stage  
200 sxs in second stage

T.D.: 4345'

**WELLBORE DIAGRAM**  
**MCA UNIT #414**

17-1/2" Hole  
13-3/8" @ 92'  
TOC @ surface  
circulate

12-1/4" Hole  
8-5/8" @ 1025'  
TOC @ surface  
circulate  
570 sx cmt.

Lease and Well No.:  
Location:

**MCA UNIT #414**  
**Sec. 27, T17S-R32E**

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

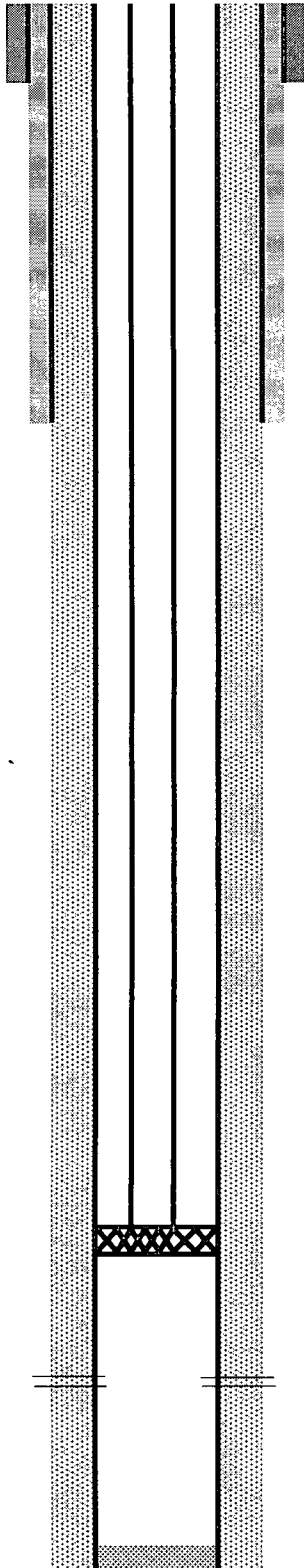
**Lea County, New Mexico**  
**Maljamar**  
**1/4/2009**  
**30-025-38982**  
**Completed**

**Perforations**

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 4028-4029 | Sand Fracture |
| 4046-4052 | Sand Fracture |
| 4056-4078 | Sand Fracture |
| 4082-4085 | Sand Fracture |
| 4091-4104 | Sand Fracture |
| 4119-4124 | HCL Acid      |
| 4128-4140 | HCL Acid      |
| 4162-4166 | HCL Acid      |
| 4171-4172 | HCL Acid      |
| 4181-4184 | HCL Acid      |
| 4194-4202 | HCL Acid      |

**Proposed Injection**

|        |                                                 |
|--------|-------------------------------------------------|
| Tubing | 2-3/8" 4.6# J-55 w/ IPC (TK-99)                 |
| Packer | Nickel coated 5-1/2" set within 100 ft of 4028' |



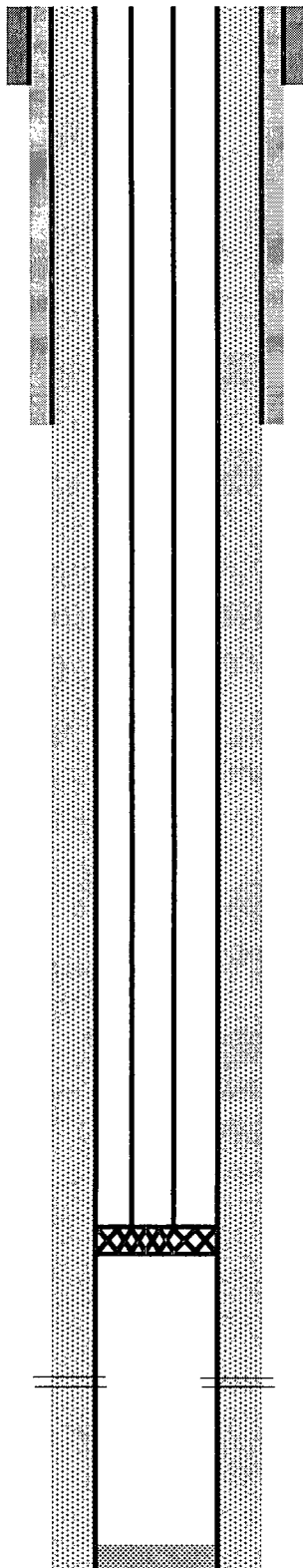
7-7/8" Hole  
5-1/2" @ 4499'  
TOC @ surface  
circulated  
700 sxs

T.D.: 4510'

# WELLBORE DIAGRAM

## MCA UNIT #418

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #418  
Sec. 27, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
12/15/2008  
30-025-38986  
Completed

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3934-3943 | Sand Fracture |
| 3947-3964 | Sand Fracture |
| 3967-3971 | Sand Fracture |
| 3976-3991 | Sand Fracture |
| 3998-4011 | Sand Fracture |
| 4053-4057 | HCL Acid      |
| 4061-4065 | HCL Acid      |
| 4070-4072 | HCL Acid      |
| 4076-4081 | HCL Acid      |
| 4109-4120 | HCL Acid      |
| 4124-4130 | HCL Acid      |
| 4133-4137 | HCL Acid      |
| 4150-4152 | HCL Acid      |
| 4156-4159 | HCL Acid      |

### Proposed Injection

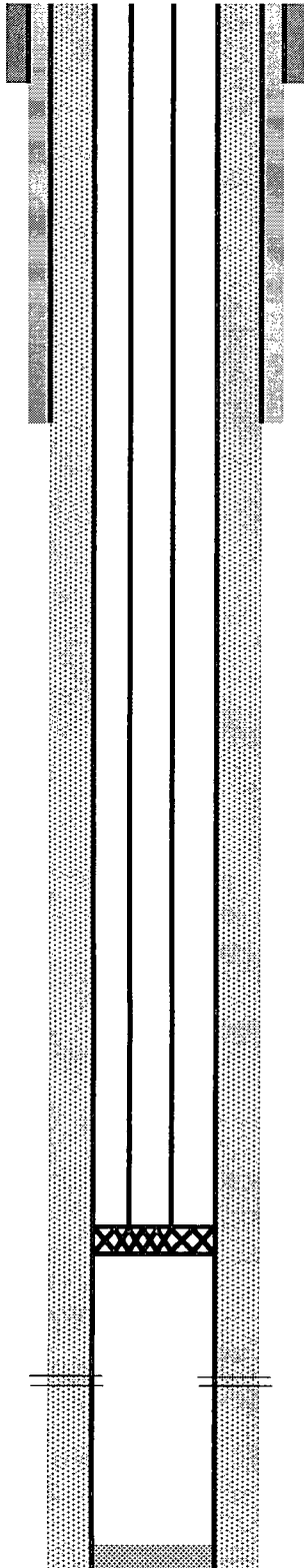
Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 3934'

7-7/8" Hole  
5-1/2" @ 4364'  
TOC @ surface  
circulated  
750 sxs

T.D.: 4380'

**WELLBORE DIAGRAM**  
**MCA UNIT #419**

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



12-1/4" Hole  
8-5/8" @ 1007'  
TOC @ surface  
circulate  
570 sx cmt.

Lease and Well No.:  
Location:

MCA UNIT #419  
Sec. 27, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
12/23/2009  
30-025-38987  
Completed

**Perforations**

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3955-3957 | Sand Fracture |
| 3959-3965 | Sand Fracture |
| 3971-3985 | Sand Fracture |
| 4000-4010 | Sand Fracture |
| 4021-4032 | Sand Fracture |
| 4061-4065 | HCL Acid      |
| 4070-4076 | HCL Acid      |
| 4078-4090 | HCL Acid      |
| 4096-4098 | HCL Acid      |
| 4100-4106 | HCL Acid      |
| 4135-4142 | HCL Acid      |
| 4153-4156 | HCL Acid      |
| 4159-4160 | HCL Acid      |
| 4167-4170 | HCL Acid      |
| 4172-4175 | HCL Acid      |
| 4186-4187 | HCL Acid      |
| 4192-4205 | HCL Acid      |

**Proposed Injection**

|        |                                                 |
|--------|-------------------------------------------------|
| Tubing | 2-3/8" 4.6# J-55 w/ IPC (TK-99)                 |
| Packer | Nickel coated 5-1/2" set within 100 ft of 3955' |

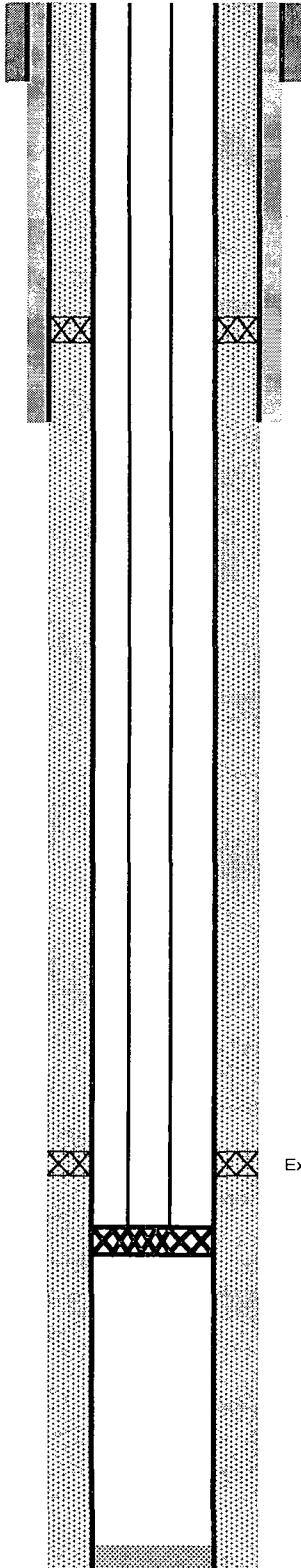
7-7/8" Hole  
5-1/2" @ 4360'  
TOC @ surface  
circulated  
715 sxs

T.D.: 4375'

# WELLBORE DIAGRAM

## MCA UNIT #420

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #420  
Sec. 28, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
11/10/2008  
30-025-38989  
Completed

12-1/4" Hole  
8-5/8" @ 1015'  
TOC @ surface  
circulate  
570 sx cmt.

External Casing Packer @ 950-976'

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3973-3987 | Sand Fracture |
| 3992-4007 | Sand Fracture |
| 4009-4014 | Sand Fracture |
| 4017-4032 | Sand Fracture |
| 4039-4051 | Sand Fracture |
| 4097-4101 | HCL Acid      |
| 4104-4110 | HCL Acid      |
| 4120-4126 | HCL Acid      |
| 4129-4133 | HCL Acid      |
| 4136-4144 | HCL Acid      |
| 4199-4210 | HCL Acid      |
| 4212-4225 | HCL Acid      |

### Proposed Injection

Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 3973'

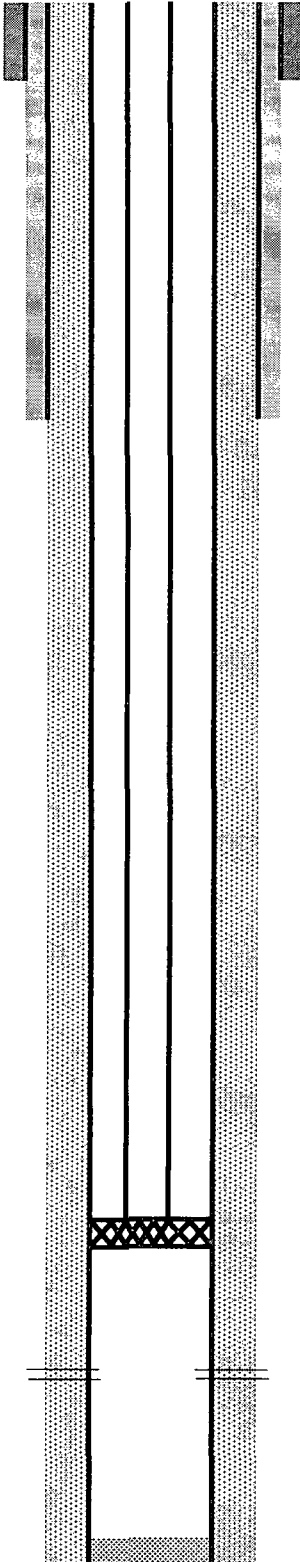
External Casing Packer @ 3879-3897'

7-7/8" Hole  
5-1/2" @ 4374'  
TOC @ surface  
circulated  
800 sxs in first stage  
200 sxs in second stage

T.D.: 4385'

**WELLBORE DIAGRAM**  
**MCA UNIT #462**

17-1/2" Hole  
13-3/8" @ 80'  
TOC @ surface  
circulate



12-1/4" Hole  
8-5/8" @ 1040'  
TOC @ surface  
circulate  
570 sx cmt.

Lease and Well No.:  
Location:

MCA UNIT #462  
Sec. 26, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
3/16/2009  
30-025-39318  
Completed

Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 4075-4110 | Sand Fracture |
| 4113-4130 | Sand Fracture |
| 4132-4143 | Sand Fracture |
| 4190-4196 | HCL Acid      |
| 4200-4206 | HCL Acid      |
| 4210-4220 | HCL Acid      |
| 4249-4254 | HCL Acid      |
| 4263-4276 | HCL Acid      |
| 4279-4287 | HCL Acid      |
| 4289-4293 | HCL Acid      |
| 4294-4298 |               |

Proposed Injection

Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 4075'

7-7/8" Hole  
5-1/2" @ 4469'  
TOC @ surface  
circulated  
861 sxs

T.D.: 4480'

# WELLBORE DIAGRAM

## MCA UNIT #474

17-1/2" Hole  
13-3/8" @ 90'  
TOC @ surface  
circulate

Lease and Well No.:  
Location:

MCA UNIT #474  
Sec. 27, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
5/21/2009  
30-025-39320  
Completed

12-1/4" Hole  
8-5/8" @ 1009'  
TOC @ surface  
circulate  
570 sx cmt.

External Casing Packer @ 891-923'

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3945-3952 | Sand Fracture |
| 3978-3994 | Sand Fracture |
| 4001-4008 | Sand Fracture |
| 4018-4025 | Sand Fracture |
| 4035-4047 | Sand Fracture |
| 4053-4057 | Sand Fracture |
| 4083-4090 | HCL Acid      |
| 4092-4095 | HCL Acid      |
| 4097-4106 | HCL Acid      |
| 4136-4138 | HCL Acid      |
| 4140-4147 | HCL Acid      |
| 4150-4163 | HCL Acid      |
| 4166-4169 | HCL Acid      |
| 4171-4176 | HCL Acid      |
| 4181-4183 | HCL Acid      |

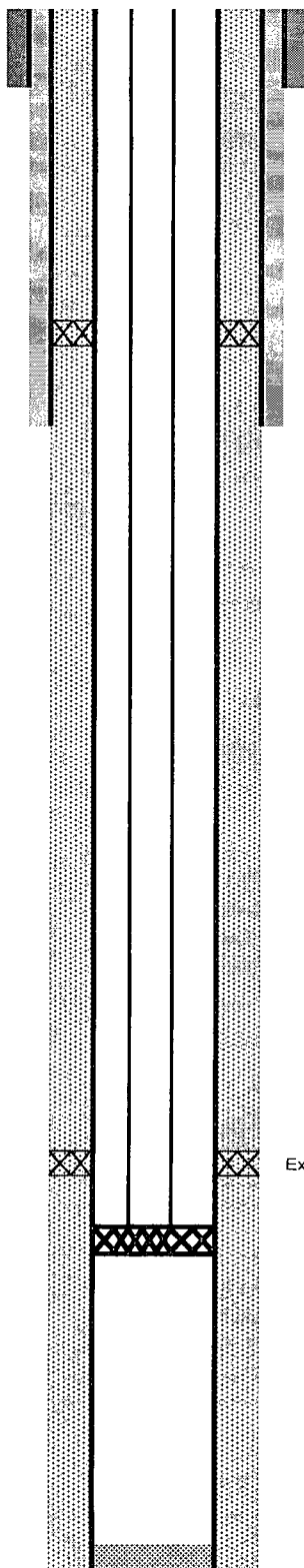
### Proposed Injection

Tubing      2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer      Nickel coated 5-1/2" set within 100 ft of 3945'

External Casing Packer @ 3863-3895'

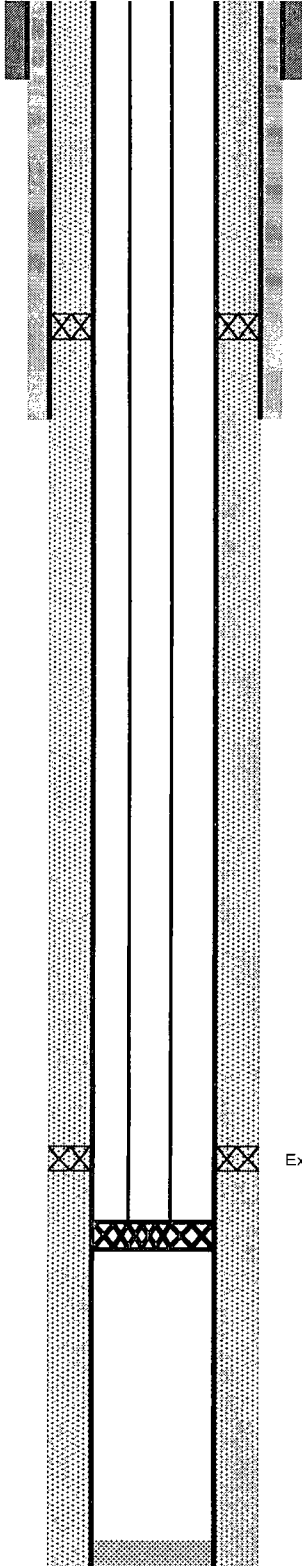
7-7/8" Hole  
5-1/2" @ 4378'  
TOC @ surface  
circulated  
750 sxs in first stage  
200 sxs in second stage

T.D.: 4390'



**WELLBORE DIAGRAM**  
**MCA UNIT #475**

17-1/2" Hole  
13-3/8" @ 90'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #475  
Sec. 27, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Majamar  
4/3/2009  
30-025-39349  
Completed

12-1/4" Hole  
8-5/8" @ 1000'  
TOC @ surface  
circulate  
570 sx cmt.

External Casing Packer @ 917-951'

Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3954-3964 | Sand Fracture |
| 3974-3982 | Sand Fracture |
| 3992-3998 | Sand Fracture |
| 4006-4022 | Sand Fracture |
| 4029-4033 | HCL Acid      |
| 4085-4096 | HCL Acid      |
| 4123-4124 | HCL Acid      |
| 4126-4137 | HCL Acid      |
| 4146-4153 | HCL Acid      |
| 4155-4170 | HCL Acid      |

Proposed Injection

Tubing      2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer      Nickel coated 5-1/2" set within 100 ft of 3954'

External Casing Packer @ 3844-3877'

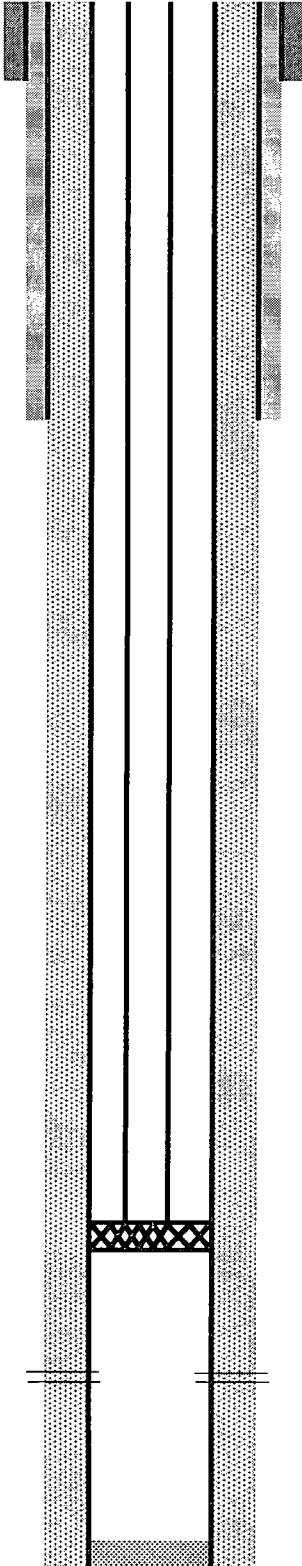
7-7/8" Hole  
5-1/2" @ 4400'  
TOC @ surface  
circulated  
800 sxs in first stage  
200 sxs in second stage

T.D.: 4405'

# WELLBORE DIAGRAM

## MCA UNIT #478

17-1/2" Hole  
13-3/8" @ 90'  
TOC @ surface  
circulate



Lease and Well No.:  
Location:

MCA UNIT #478  
Sec. 28, T17S-R32E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
6/9/2009  
30-025-39351  
Completed

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3884-3896 | Sand Fracture |
| 3903-3913 | Sand Fracture |
| 3916-3924 | Sand Fracture |
| 3939-3949 | Sand Fracture |
| 3951-3959 | Sand Fracture |
| 3995-4011 | HCL Acid      |
| 4020-4025 | HCL Acid      |
| 4028-4032 | HCL Acid      |
| 4067-4088 | HCL Acid      |
| 4092-4097 | HCL Acid      |
| 4101-4126 | HCL Acid      |

### Proposed Injection

Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 3884'

7-7/8" Hole  
5-1/2" @ 4189'  
TOC @ surface  
circulated  
800 sxs

T.D.: 4200'

# WELLBORE DIAGRAM

## MCA UNIT #483

17-1/2" Hole  
13-3/8" @ 90'  
TOC @ surface  
circulate

Lease and Well No.:  
Location:

**MCA UNIT #483**  
**Sec. 28, T17S-R32E**

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

**Lea County, New Mexico**  
**Maljamar**  
**5/28/2009**  
**30-025-39353**  
**Completed**

12-1/4" Hole  
8-5/8" @ 910'  
TOC @ surface  
circulate  
570 sx cmt.

External Casing Packer @ 843-875'

### Perforations

| INTERVAL  | Stimulation   |
|-----------|---------------|
| 3822-3844 | Sand Fracture |
| 3852-3860 | Sand Fracture |
| 3867-3879 | Sand Fracture |
| 3886-3898 | Sand Fracture |
| 3904-3908 | Sand Fracture |
| 3939-3953 | HCL Acid      |
| 3964-3967 | HCL Acid      |
| 3998-3999 | HCL Acid      |
| 4008-4018 | HCL Acid      |

### Proposed Injection

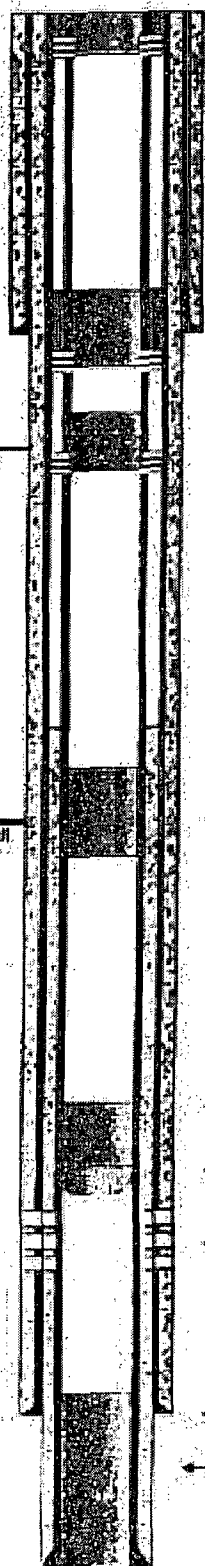
Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)  
Packer Nickel coated 5-1/2" set within 100 ft of 3822'

7-7/8" Hole  
5-1/2" @ 4075'  
TOC @ surface  
circulated  
800 sxs in first stage  
200 sxs in second stage

External Casing Packer @ 3764-3796'

T.D.: 4208'

*Exhibit # 4*



← 25 sq cmt sqz'd under  
80' to surface

← 13-3/8\" set at 723'

← 40 sq cmt sqz'd under  
packer 773 - 862'  
TAGGED

← 25 sq cmt plug  
1,023 - 775'

est. top of salt  
800'

est. base of salt  
2,100'

← 25 sq cmt plug  
2,173 - 1,918'

← 25 sq cmt plug  
3,136 - 2,882'

← CIBP @ 3,136'

← Queen  
3,198 - 3,222'

← 9-5/8\" set at 4,500'

← 50 sq cmt plug  
4,450 - 4,850'

|               |                |                     |                   |
|---------------|----------------|---------------------|-------------------|
| Field Name:   | Pearsall Queen |                     |                   |
| County:       | Lea            | Well Type:          | gas               |
| State:        | New Mexico     | PBTD:               | 4,850             |
| RRC District: |                | Drilling Commenced: | October 14, 1980  |
| Section:      | 28             | Drilling Completed: | March 18, 1981    |
| Block:        |                | Date Well Plugged:  | December 19, 2003 |
| Survey:       | T-17-S, R-32-E | Longitude:          |                   |
|               |                | Latitude:           |                   |
|               |                | Freshwater Depths:  |                   |
| API #:        | 42-025-27068   |                     |                   |
| Lease or ID:  | LC 057210      |                     |                   |

## Casing

| Description   | Size<br>(inches) | Depth<br>(feet) | TOC<br>(feet) | Cement<br>(sacks) | Hole Size<br>(inches) |
|---------------|------------------|-----------------|---------------|-------------------|-----------------------|
| Surface:      | 13-3/8"          | 723             | Surface       | 700               | 17-1/2"               |
| Intermediate: | 9-5/8"           | 4,500           | Surface       | 1475              | 11"                   |
| Production:   | 5-1/2"           | 12,967          | 1,345         | 2200              | 8-1/2"                |
|               |                  |                 |               |                   |                       |
|               |                  |                 |               |                   |                       |

## Existing Plugs

| Description                     | Top<br>(feet) | Depth<br>(feet) | Volume<br>(sacks) | Volume<br>(cu ft) |
|---------------------------------|---------------|-----------------|-------------------|-------------------|
| 1 Cement-Class C - Balanced     | 4,450         | 4,850           | 50                | 66                |
| 2 CIBP                          | 3,136         | 3,136           |                   |                   |
| 3 Cement-Class C - Balanced     | 2,882         | 3,136           | 25                | 33                |
| 4 Cement-Class C - Balanced     | 1,919         | 2,173           | 25                | 33                |
| 5 Cement-Class C - Balanced     | 775           | 1,023           | 25                | 33                |
| 6 Cement-Class C - perf & sqz'd | 662 (tag'd)   | 773             | 40                | 53                |
| 7 Cement-Class C - perf & sqz'd | surface       | 60              | 25                | 33                |

## Perforations

| Formation | Top<br>(feet) | Depth<br>(feet) |
|-----------|---------------|-----------------|
| Queen     | 3,198         | 3,222           |
|           |               |                 |
|           |               |                 |
|           |               |                 |

## Formations

| Name              | Top of Formation |
|-------------------|------------------|
| est. top of salt  | 900              |
| est. base of salt | 2,100            |
|                   |                  |
|                   |                  |

## Comments

Perforated at 950' for plug #5, unable to squeeze at 1,500 psi, pumped balanced plug.  
Plugs #6 and #7 perforated and squeezed under packer.

Prepared By: Jim Newman  
Date: December 22, 2003

**TRIPLE N**  
SERVICES INC.  
MIDLAND, TX

# BAISH B #5

30-025-00634

JDV  
6-17-90

Drish B No. 5  
~ Proposed Completion ~

Completion Sheet

Sub No.

Drish B No. 5  
~ Proposed Completion ~

Completion Sheet

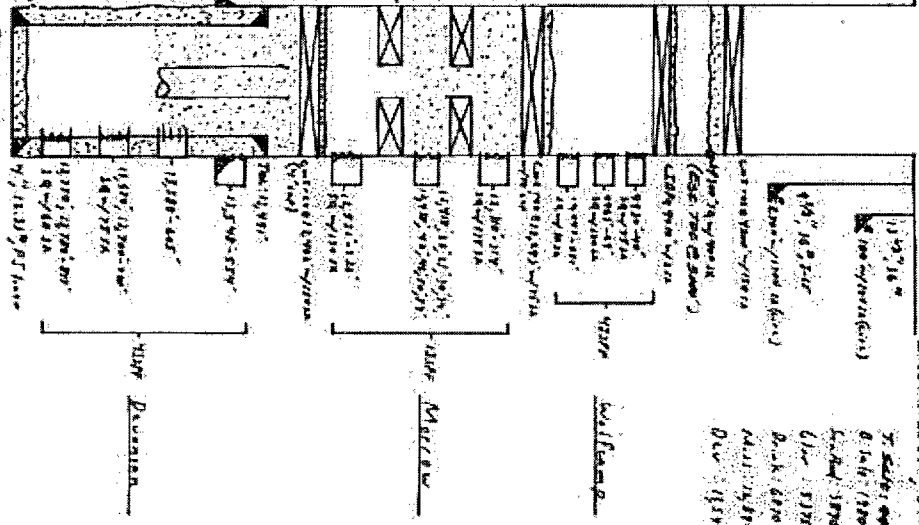
Sub No.

Completion History:  
(See Remarks)

5 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

TD: 13,919'



1980 Pile 480' Pile  
5 in. 22, T-175, R-322  
Elev: 1022.0' - 0'14" All

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

TD: 13,919'

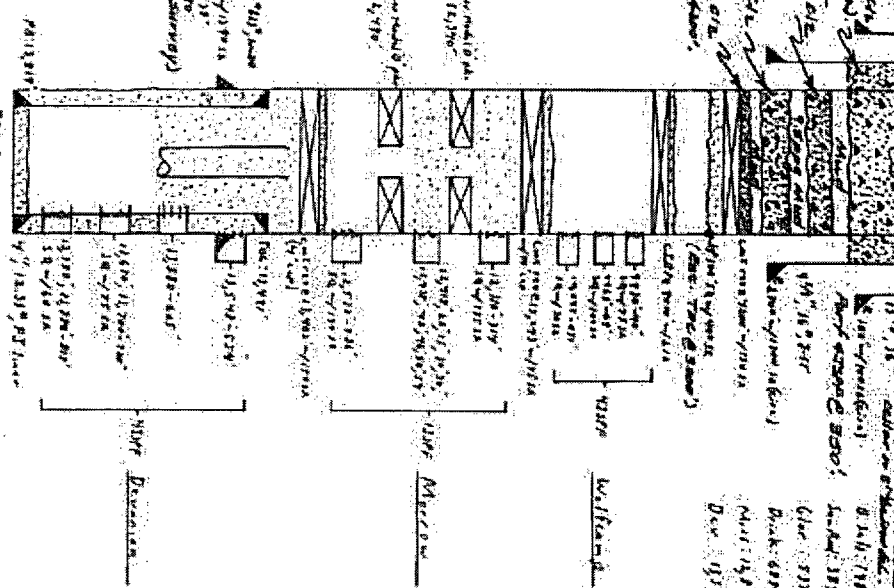
1980 Pile 480' Pile  
5 in. 22, T-175, R-322  
Elev: 1022.0' - 0'14" All

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

TD: 13,919'



1980 Pile 480' Pile  
5 in. 22, T-175, R-322  
Elev: 1022.0' - 0'14" All

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

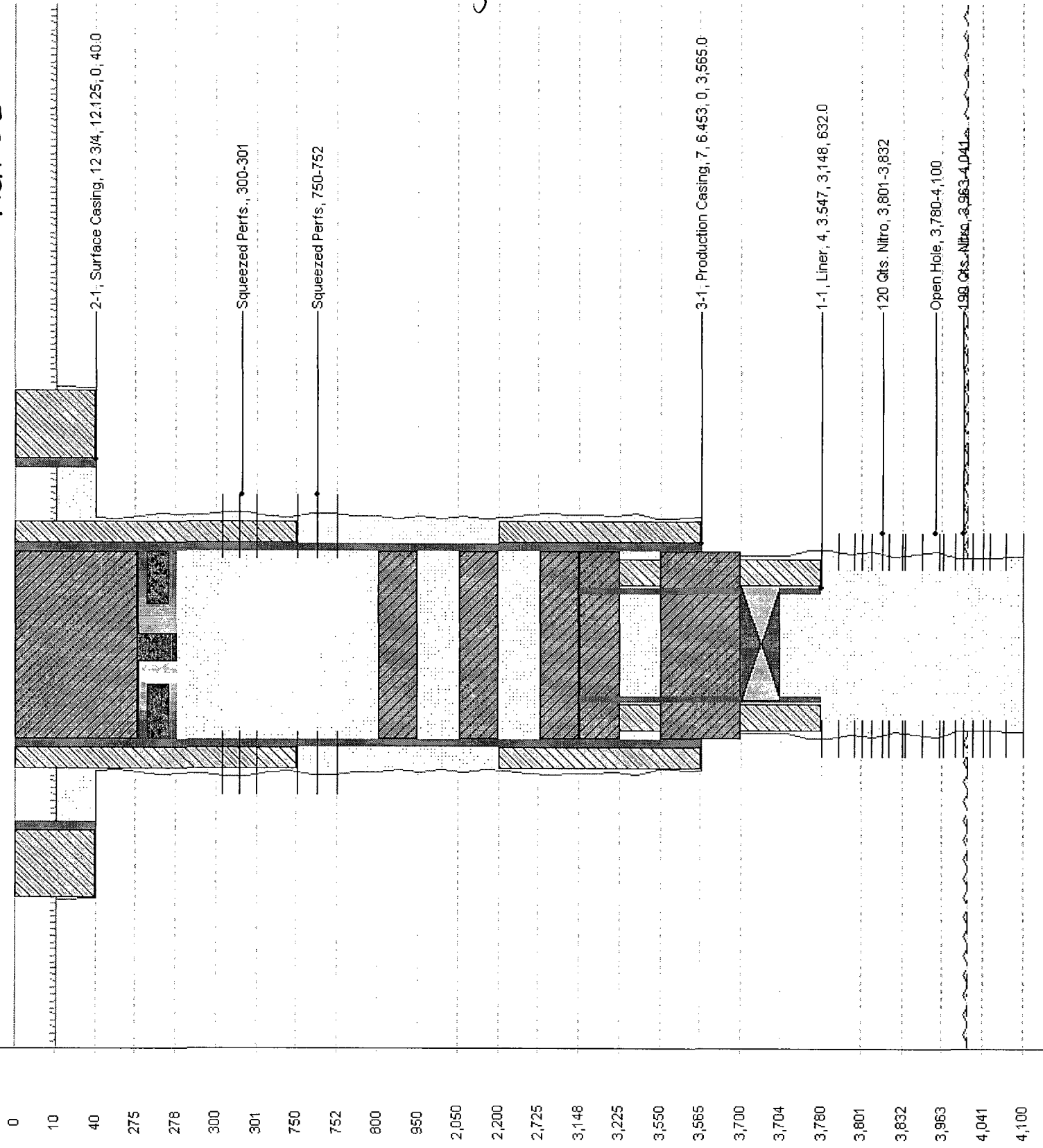
1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

1 1/2" dia  
0-230' - 10" BL  
230'-1375' - 22" x 24"  
1375'-1375' - 22" x 24"

TD: 13,919'

MCA 65

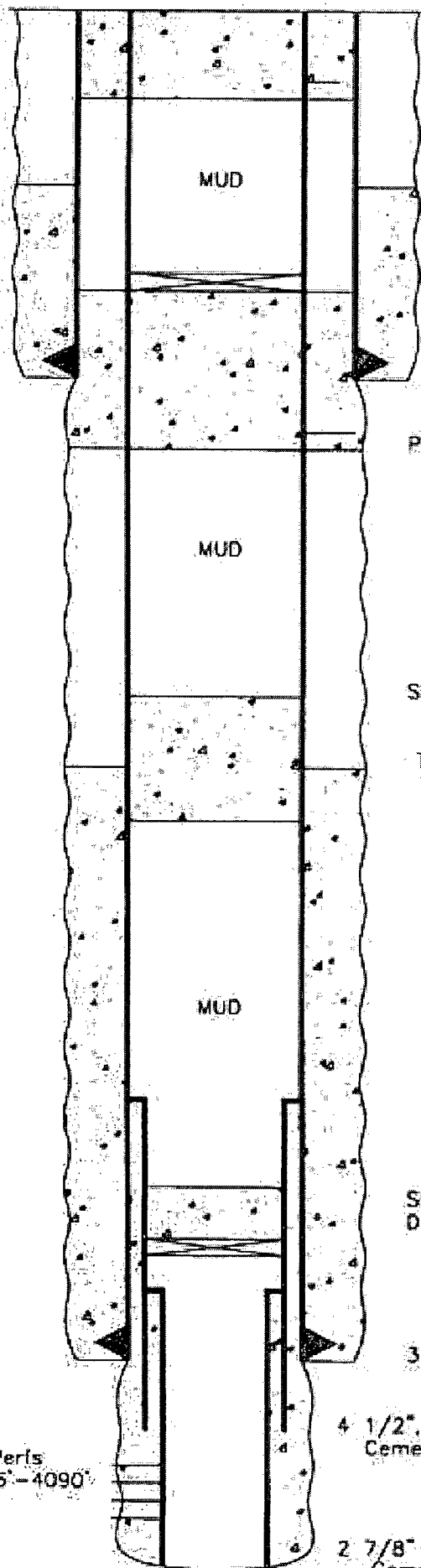
30-025-08064



Elev. = 4016' G.L. +10' KB

3/3/00

MCA 72



PERFORATE 7" AT 300'  
CIRCULATE 80 SXS CEMENT THRU PERFS AT 300'

30-025-~~100630~~  
-00630

SET A CEMENT RETAINER AT 895'  
SQUEEZE 30 SXS CEMENT THRU PERFS AT 995'

942' - 8 5/8" Casing. Cemented w/50 sxs.

PERFORATE THE 7" AT 995'

SPOT 25 SXS CEMENT PLUG 2405'-2550'

T.O.C. @ 2500'

SET A 4 1/2" C.I.B.P. @ 3550'  
DUMP BAIL 35' CEMENT ON TOP

3625' - 7" 20# Casing. Cemented w/150 Sxs

4 1/2" 9.5# Liner 3414'-3723'  
Cemented w/50 sxs.

2 7/8" Fiberglass Liner 3579'-4098'  
Cemented w/180 sxs.

Perfs  
3766'-4090'

T.D. @ 4102'

CONOCO, INC.

M.C.A. Unit #72

1980' FSL & 660' FWL

Sec. 22, T-17S, R-32E

Lea County, NM

1  
0

50

100

250

400

700

979

1,029

1,663

2,025

2,500

3,308

3,353

3,366

3,501

3,578

3,829

3,864

3,969

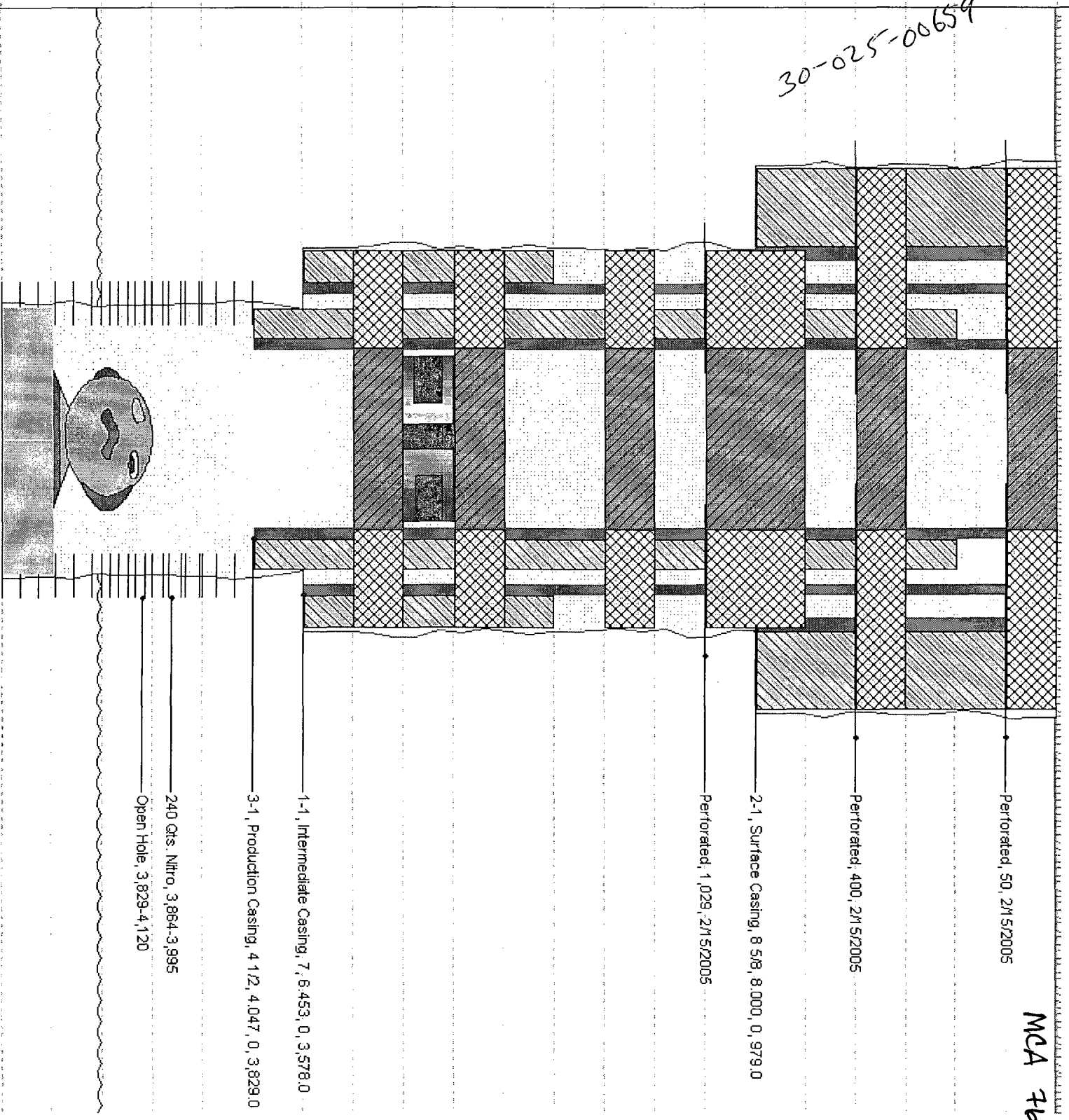
3,995

4,060

4,120

30-025-00659

MCA 76



1  
0

20

50

735

850

1,187

1,700

1,748

2,000

3,419

3,660

3,664

3,712

3,812

3,891

4,020

4,180

4,200

4,215

30-025-00647

MCA 79

2-1, Surface Casing, 8, 7, 391, 0, 20, 0

Perforated, 50, 9/7/2004

Perforated, 850, 9/7/2004

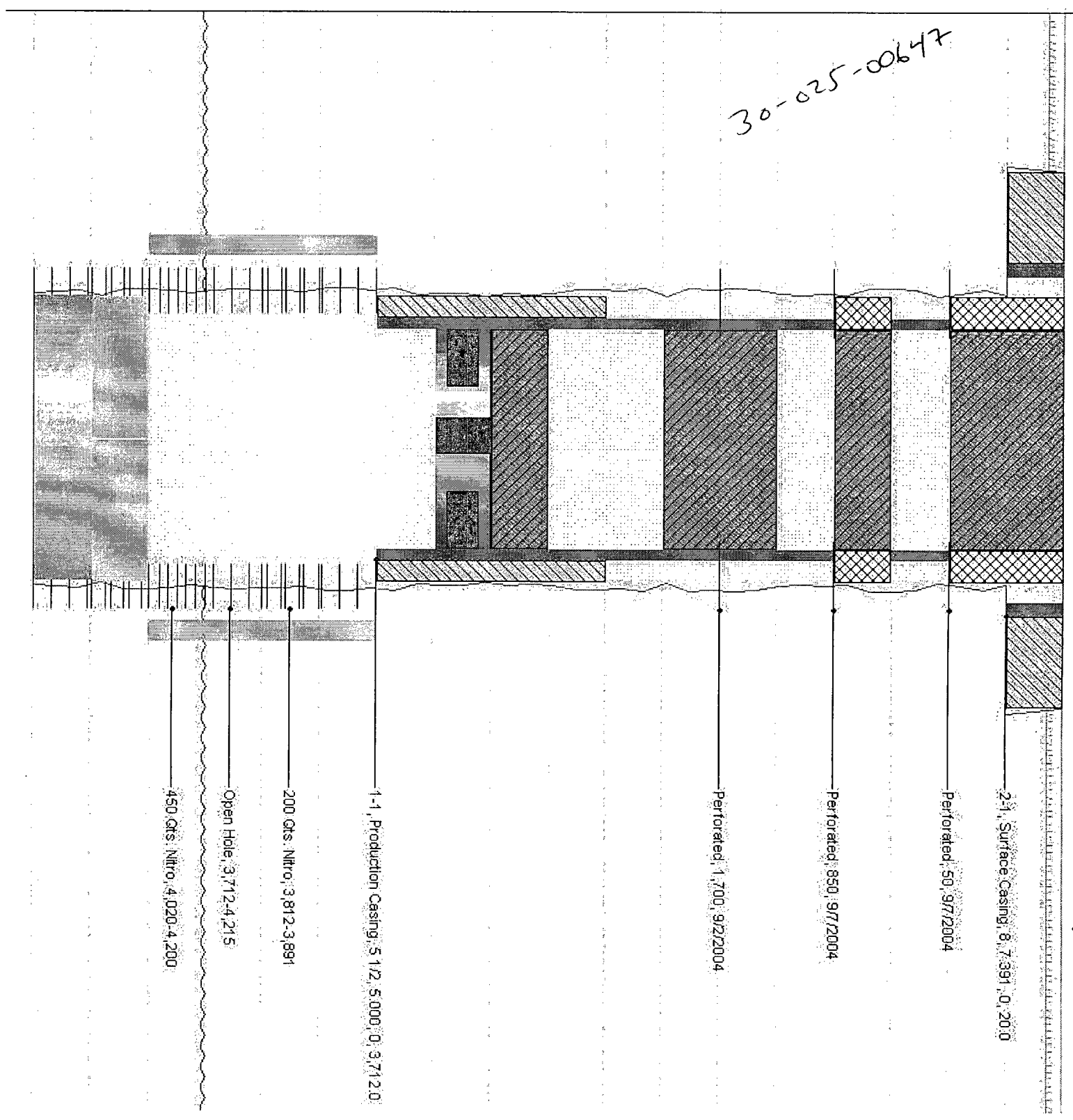
Perforated, 1,700, 9/2/2004

1-1, Production Casing, 5 1/2, 5,000, 0, 3,712, 0

200 Gts. Nitro, 3,812-3,891

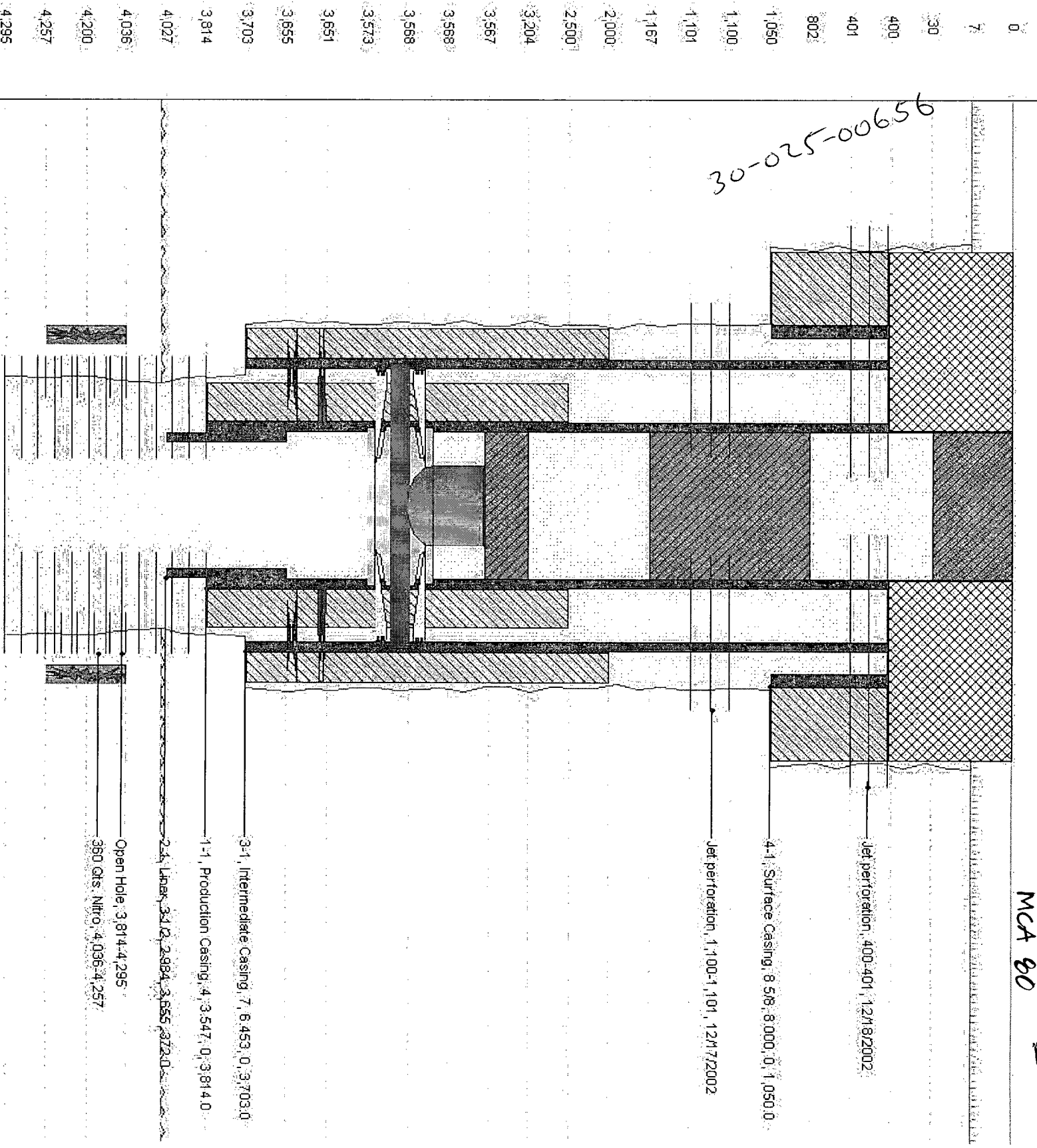
Open Hole, 3,712-4,215

450 Gts. Nitro, 4,020-4,200



MCA 80 -

30-025-00656



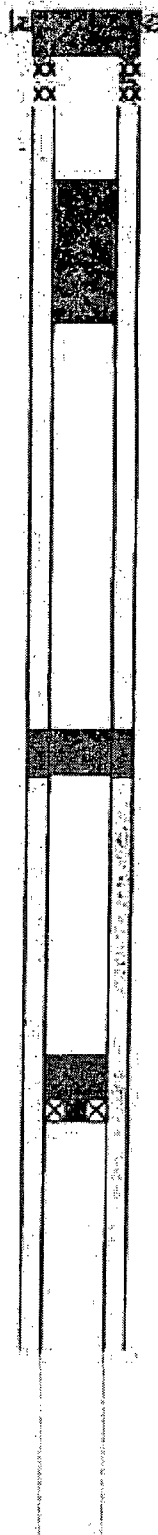
# PLUGGED WELLBORE SKETCH

ConocoPhillips Company - Permian Basin Business Unit

MCA 82

Date: 28-Sep-04

RKB @ 3987  
DF @ 3997  
GL @ 3981'



12-1/2" 32# SS @ 21' w/25 sx

25 sx C cmt squeezed 50' - surface

Csg leak 62" - 120" sqzd w/150 sacks.  
Cmt sqz 88" - 102" w/400 sx

60 sx C cmt 838 - 266" TAGGED

33 sx C cmt squeezed under packer  
2,015 - 1,908" TAGGED

TOC @ 2,081' By Calc

28 sx C cmt on existing CICR, 3,350 - 3,109'

Cement Retainer @ 3350' (12/94)

5-1/2" 14# SS OD @ 3585' w/200 sx

4-3/4" Open Hole

OH 3585' - 4160'

PBD: 3350'  
OHD: 4050'  
NID: 4160'

Subarea: Maljamar  
Lease & Well No.: MCA Unit No. 82  
Legal Description: 060' FSL & 1980' FWL, Sec. 23, T-17-S, R-32-E  
County: Lea State: New Mexico  
Field: Maljamar (GB/SA)  
Date Spudded: December 31, 1939 IPP  
API Number: 30-025-00644  
Status: PLUGGED 09/09/04  
Drilled as Miller-A No. 5

6/22/47 Deepen from 4065' to 4146'  
5/15/58 Cement plug 4058-4110 w/40 sx  
5/17/58 Cmt 30 sx 4098  
5/19/58 Cmt 40 sx 4083, TOC 4043  
6/20/59 CO and deepen 4-3/4" hole 4146-4160'  
6/23/59 Convert to water injection, Baker AD-1 @ 3562'  
Inject 750 BWPD @ 1300 psi  
2/26/85 Cmt squeeze 88"-102" w/400 sx, run PC lbq  
7/20/89 Casing leak 62" - 120" squeezed w/150 sacks.  
Set cement retainer @ 3350', circ phr fluid, press up to 7000'  
on csg, no leaks.  
TEMPORARILY ABANDON  
5/16/04 Recommend evaluating Queen for uphole potential or  
plug and abandonment. Sundry Notice expires 12/21/04.

TRIPLE N  
LUBRICITY INC.  
NEW AND RE

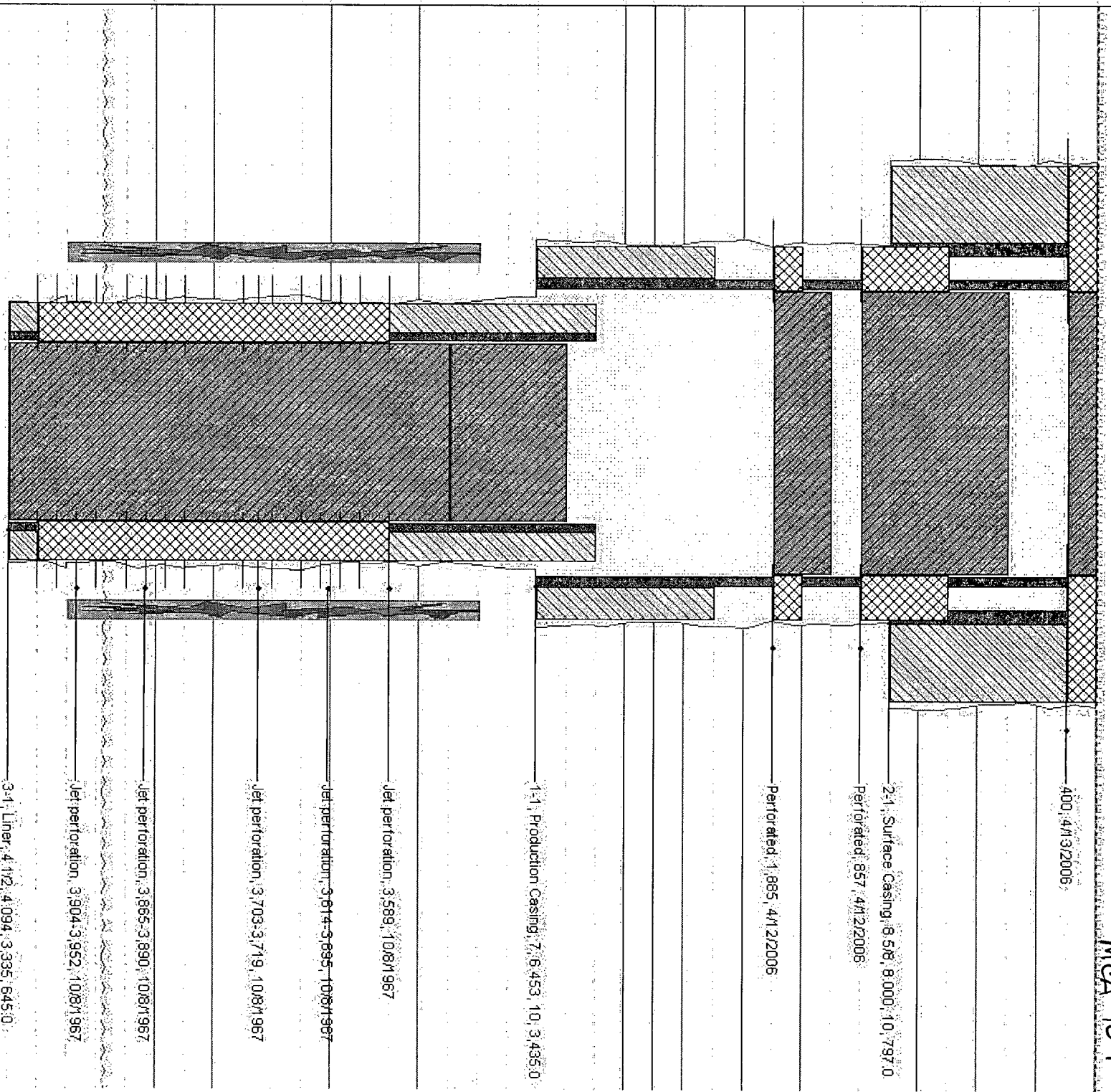
## ACTUAL PLUGGING PROCEDURE

- 1) 25 sx C cmt on existing CICR, 3,350 - 3,109'
- 2) 35 sx C cmt squeezed under packer 2,015 - 1,908" TAGGED
- 3) 60 sx C cmt 838 - 266" TAGGED
- 4) 25 sx C cmt squeezed 50' - surface

30-025-00777

1

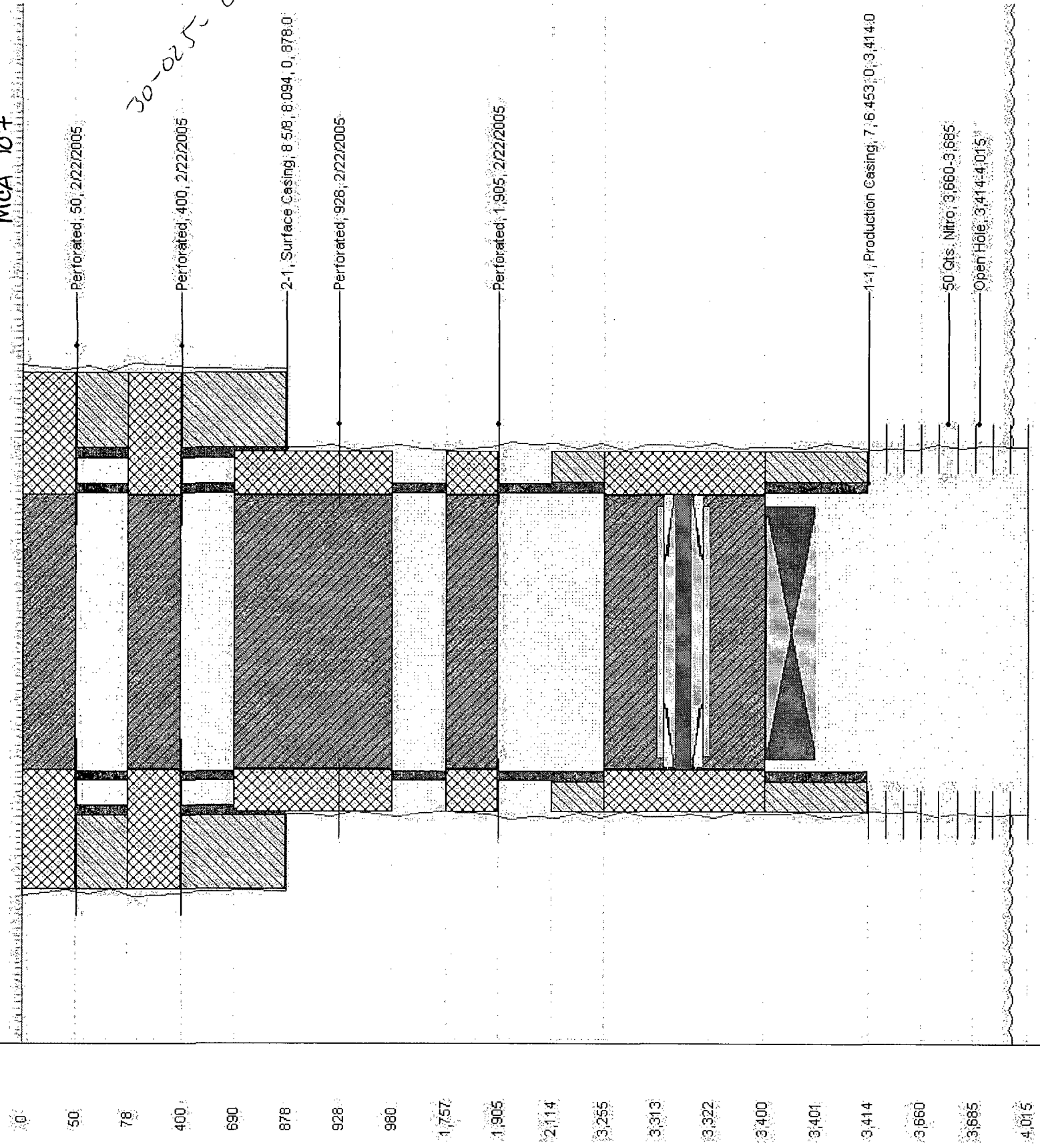
10  
400  
600  
690  
710  
740  
790  
807  
857  
1,765  
1,785  
1,885  
1,940  
2,145  
2,310  
2,915  
3,290  
3,335  
3,366  
3,445  
3,448  
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3,511  
3,570  
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3,703  
3,719  
3,765  
3,865  
3,870  
3,890  
3,904  
3,940  
3,952  
3,980



MCA 104

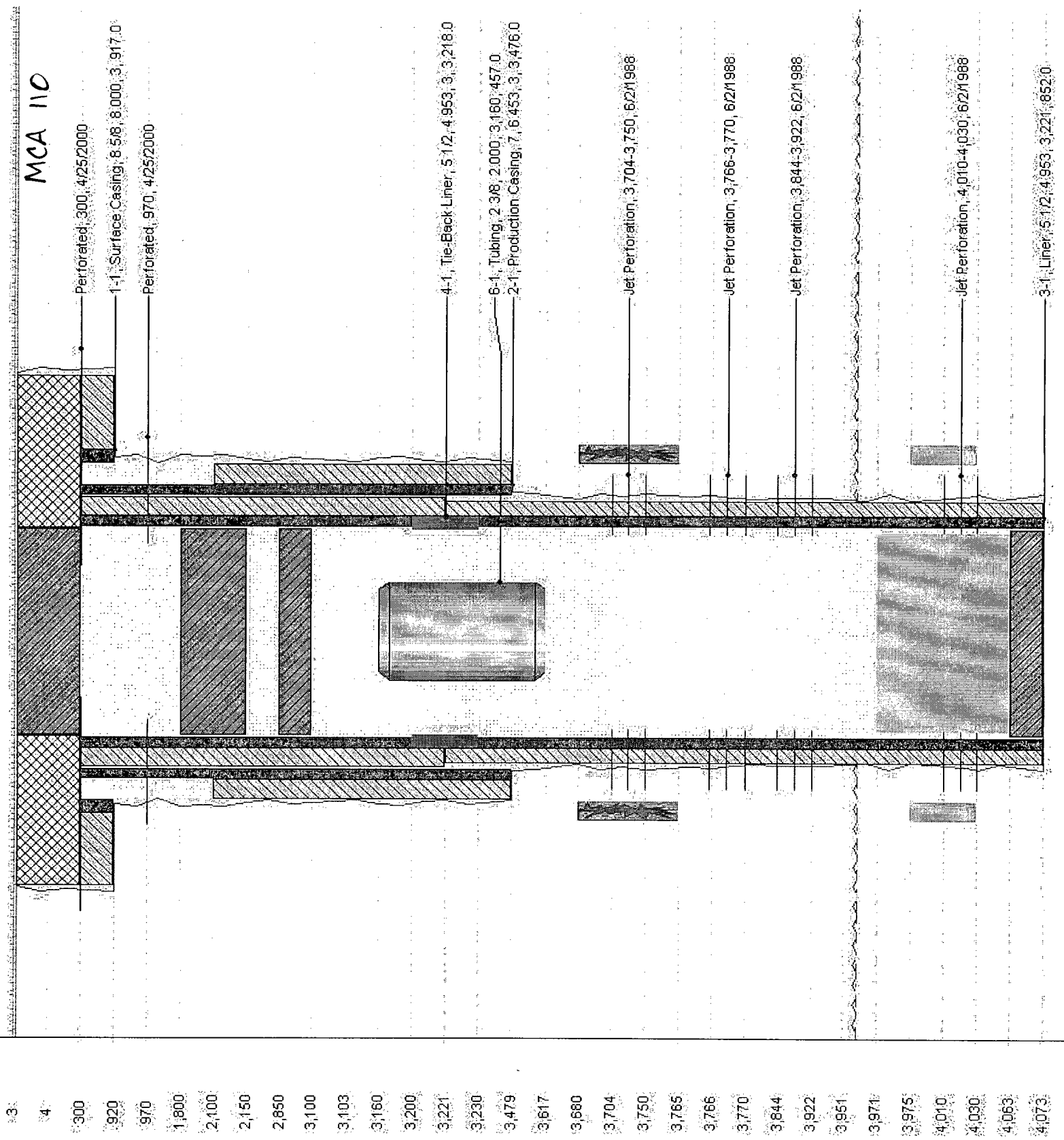
MCA 107

30-025-00769



30-025-00758

# MCA 110



FOR

LOCATION

SUBJECT

MCA 117

660' FNL, 1980 FFL 29-17-32

Looks in 5 1/2" log  
@ 125' H1 E  
896'-912' 3/4" and  
W/400 SXS  
(Dec, 1970)

12 1/2" set @  
31' W/15 SXS

API

Class C  
Cement

Est TOC @ 1000'

2500'

5 1/2" 14" set @  
3552' W/200 SXS

4" 10.46" set @  
3663' W/240 SXS (Circ.)

DENSE Class H  
Cement

Shot section:  
3744-3834' W/180 SXS  
3837-4112' W/590 SXS

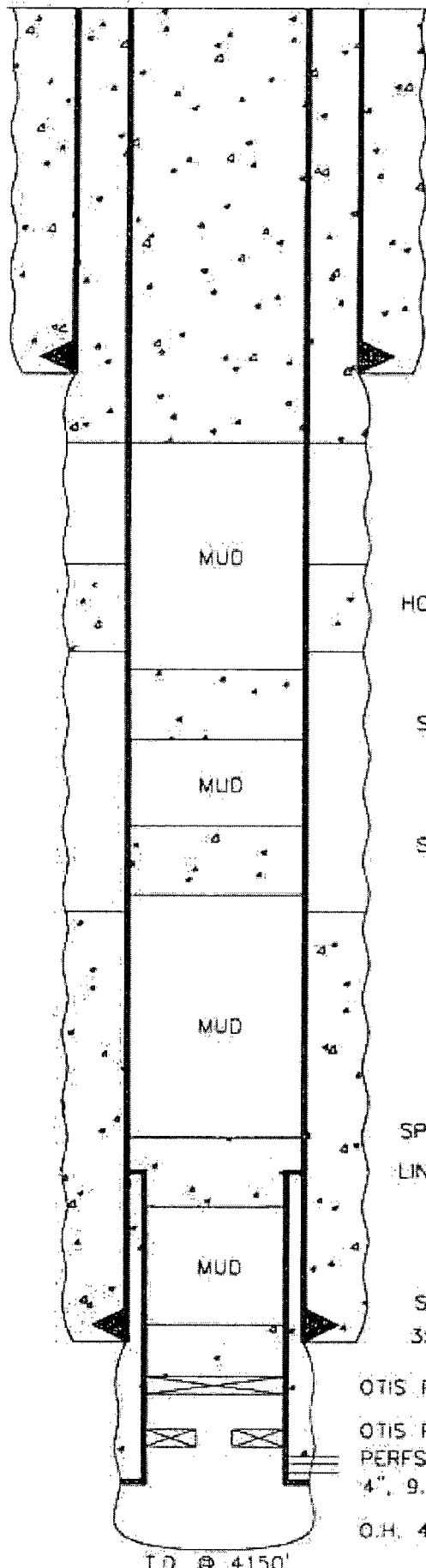
PETD 4100'

TD: 4140

Elev. = 4033'

1/29/96

MCA 119



SPOT 10 SXS SURFACE PLUG

FILL 12 1/2" FROM TOP

23' - 12 1/2" Casing. Cemented w/25 sxs.

MUD

HOLE IN CASING @900' SOZ'D W/65 SXS

SPOT 15 SXS 980'-1130'

MUD

SPOT 15 SXS 1950'-2100'

T.O.C. @ 2200'

MUD

SPOT 10 SXS 3220'-3320'

LINER TOP SOZ'D W/550 SXS

MUD

SPOT 10 SXS ON TOP OF PLUGGED PACKER

3556' - 5 1/2", 14#, Casing. Cemented w/200 sxs

OTIS PAKER W/PLUG @ 3706'

OTIS PAKER @ 3760'

PERFS 3845'-4039'

4", 9.5#, LINER 3266'-4089', CEMENTED  
W/400 SXS

O.H. 4094'-4150'

T.D. @ 4150'

CONOCO, INC.

M.C.A. Unit #119

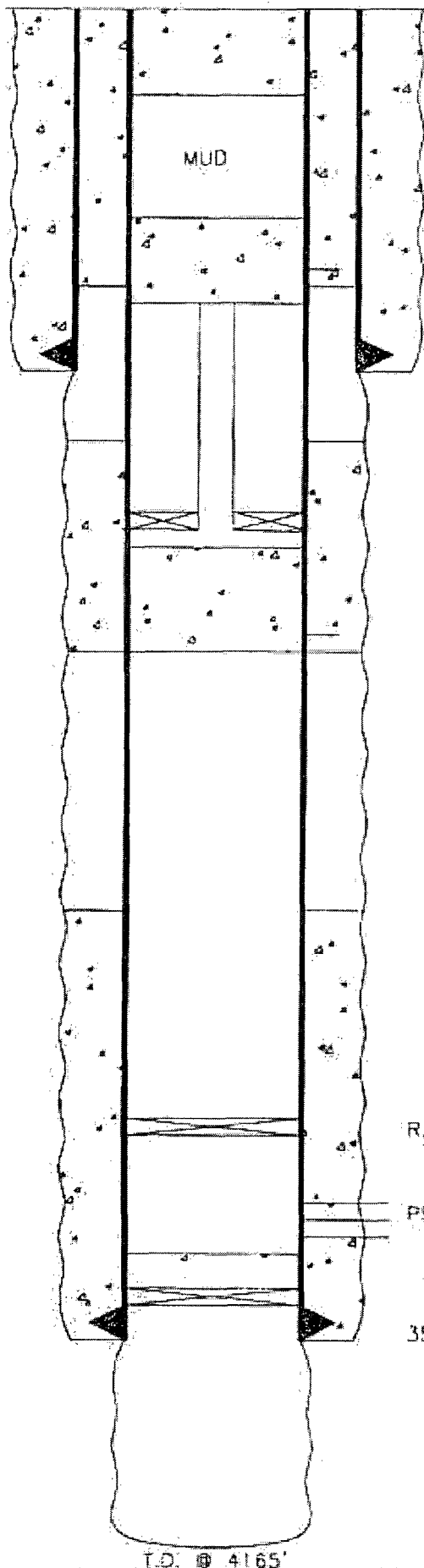
119' FNL & 660' FWL

Sec. 27, T-17S, R-32E

Elev. = 3990'

1/29/96

MCA 124



SPOT 10 SXS SURFACE PLUG

SPOT 25 SXS 750'-995'

SQUEEZED HOLE IN CASING @ 900' W/150 SXS. CIRCULATED.

TOP OF FISH @ 995'

1020' - 8 1/4" Casing Cemented w/150 sxs.

PACKER @ 1247' STUCK IN HOLE

SQUEEZED HOLE IN CASING @ 1590' W/50 SXS.

T.D.C. @ 2200' (Est.)

R.B.P. @ 3158' TESTED.

PERFS 3276'-96'

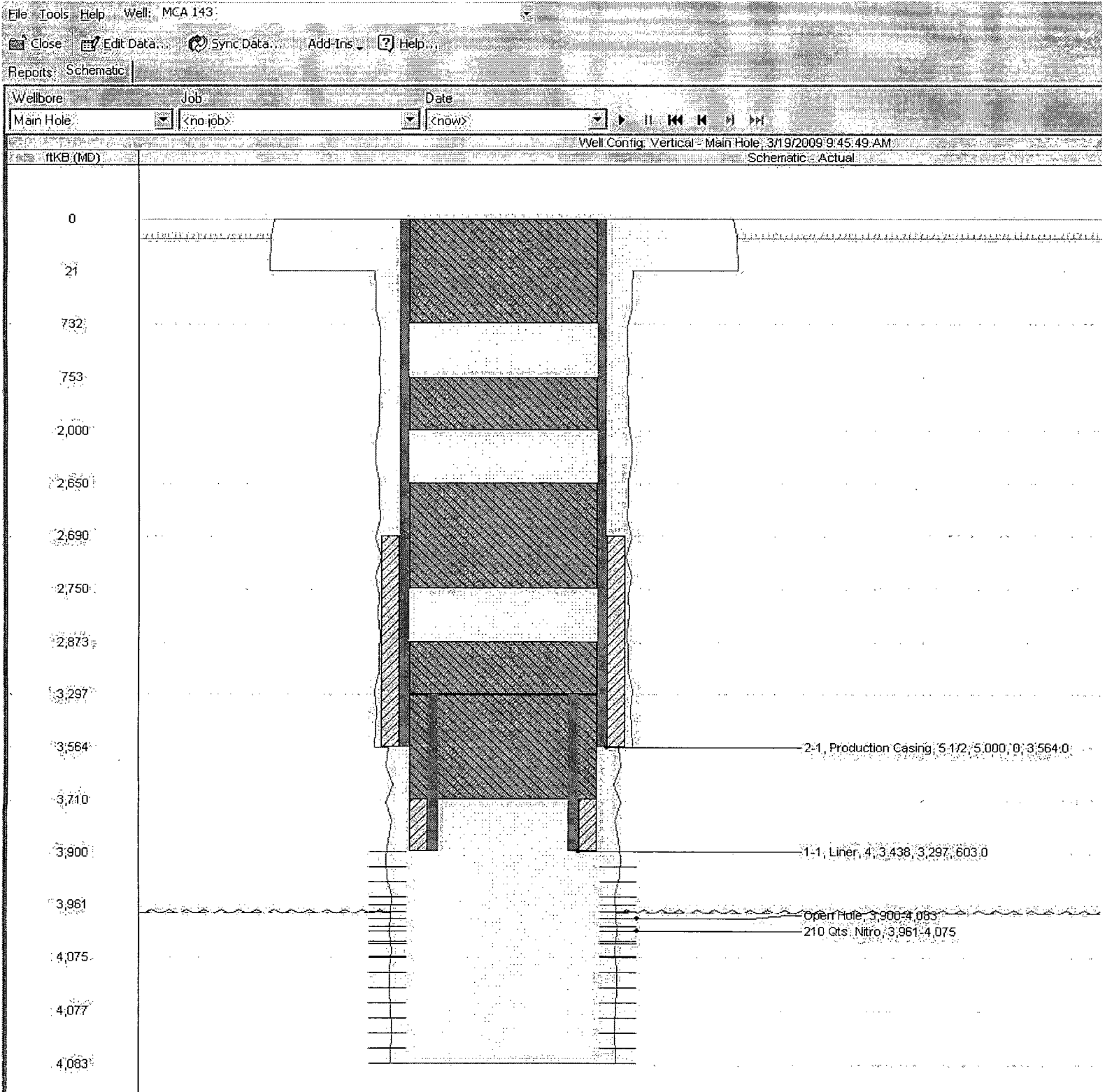
C.I.B.P. @ 3445' W/35' CEMENT ON TOP

3553' - 5 3/4" 19.7# Casing Cemented w/200 sxs.

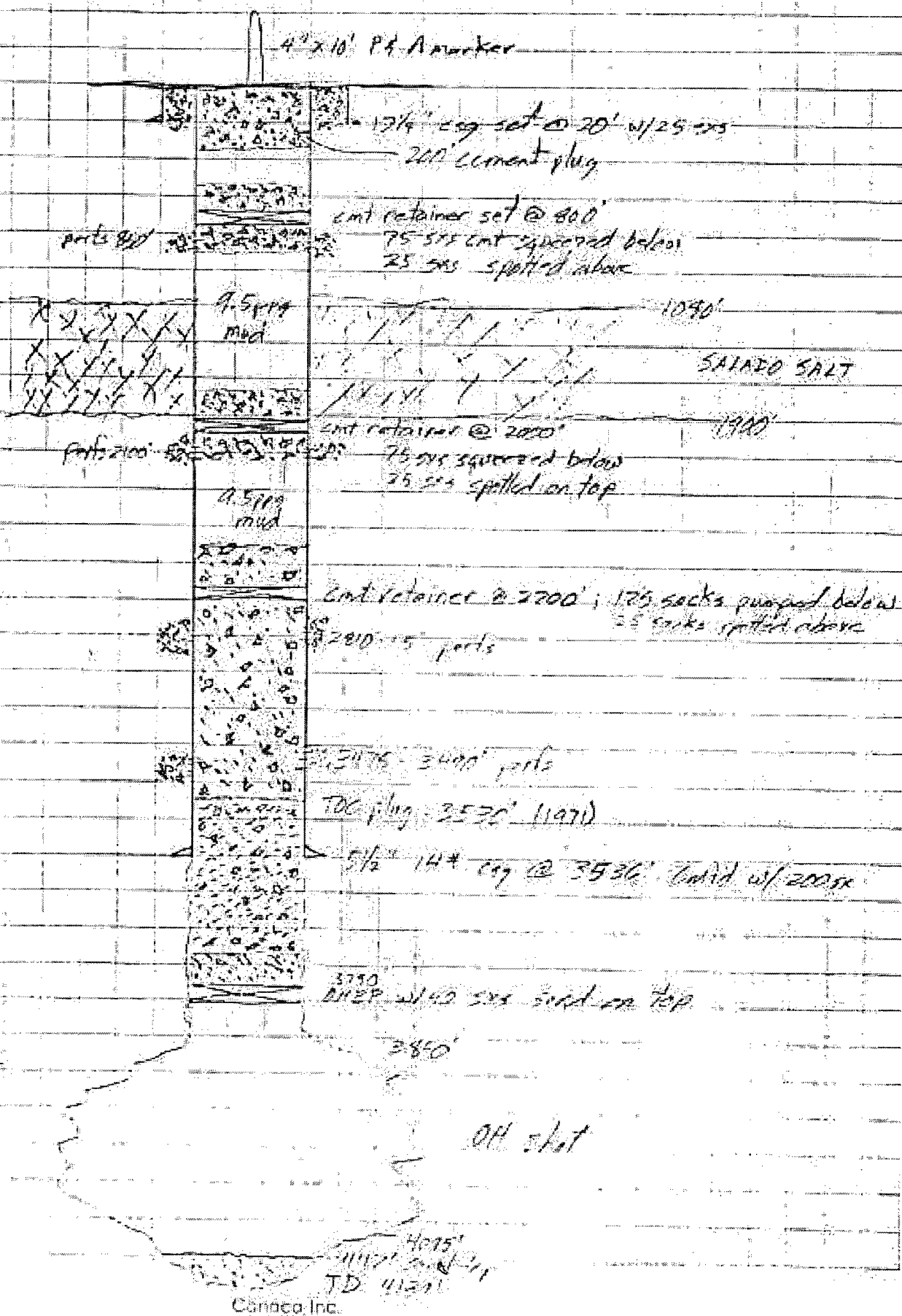
T.D. @ 4165'

|                       |
|-----------------------|
| CONOCO, INC.          |
| M.C.A. Unit #124      |
| 660' FNL & 1980' FWL  |
| Sec. 26, T-17S, R-32E |

MCA 143



MCA No. 144  
After P & A



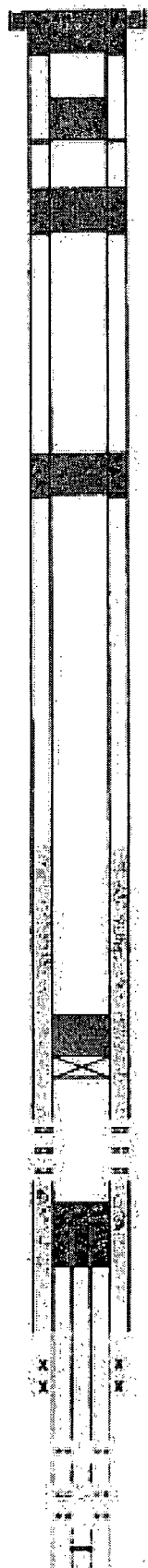
# **PLUGGED WELLBORE SKETCH** ConocoPhillips Company - Permian Basin Business Unit

**MCA 147**

Date: September 26, 2004

RKB @ \_\_\_\_\_  
 DF @ 3500'  
 CL @ \_\_\_\_\_

Subarea: Matamor  
 Lease & Well No. Queen-B No. 6 / (MCA Unit No. 147)  
 Legal Description 1880' FNL & 1880' FWL, SE4 NW4 Sec. 27,  
T-17-S, R-32-E N.M.P.M. Meridian  
 County Lea State New Mexico  
 Field Matamor (GB/SA)  
 Date Spudded May 19, 1942 IPP  
 API Number 30-025-00710 403 BQ, 0 SW  
 Status PLUGGED  
 Drilled as Balish "B" No. 8



12-1/2" OD @ 20' w/ 25 sx  
 4) 25 sx C cmt 50' - Surface  
 Perf & Sqr

25 sx C cmt 465 - 235' TAGGED  
 (perforated at 400', no rate at 1,500 psi)

35 sx C cmt perforated & squeezed  
 under packer 1,000 - 885' TAGGED

38 sx C cmt perforated & squeezed  
 under packer 1,335 - 1,800' TAGGED

TOC of 5-1/2" Csg @ 2500'

Tagged existing CBP @ 3,130', pumped  
 25 sx C cmt 3,130 - 2,883'

CBP @ 3130' (400)

Queen

3178-3204 - 2 JSPP (505)

Cmt Ret @ 3335' w/57 sx below & 35 sx above  
 Top Liner @ 3337'

5-1/2" OD @ 3543'  
 Cemented w/250 sx cement  
 TOC @ 2500'

3760' sqz w/200 sx; TOC 3564'  
 3890' Sqr w/118 sx cmt  
 4-3/4" Hole  
 OH 3543' - 4150'  
Grayburn 5th  
 3856-3895A 3912-3906  
San Antonio 7th  
 3912-3966 3890-3902  
 3998-4002 4010-4030 (266 holes) 10/03  
 Spot 30 sx cmt 4150' - 4037'

CBP @ 4088' pushed down from 3800'

Btm of Liner @ 4148'

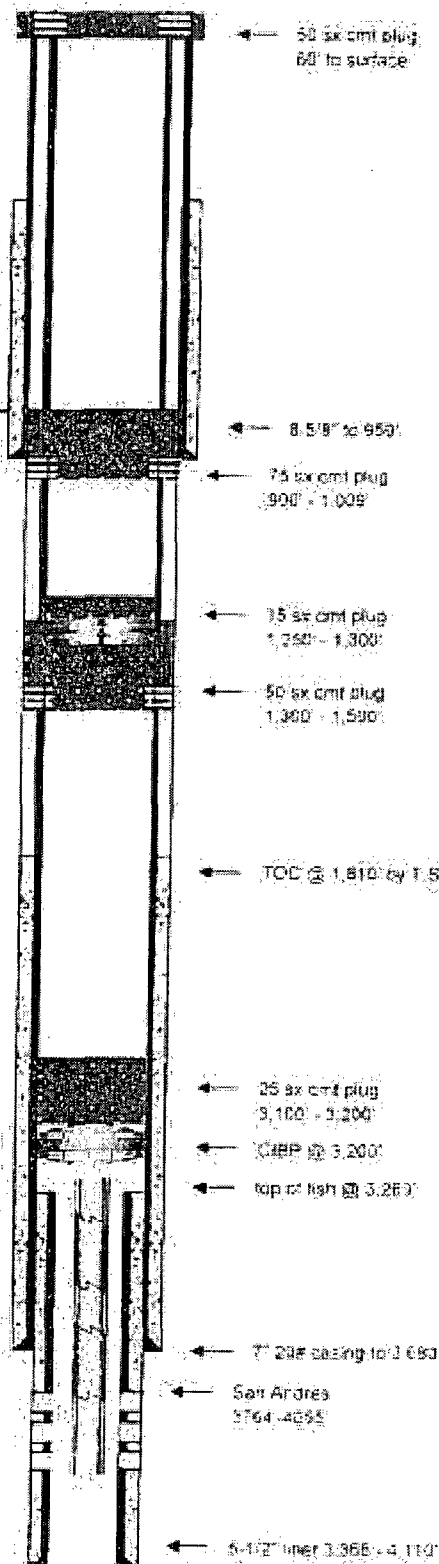
4" Liner 10 488 FL-45 ser 3337' - 4148' w/250 Sx

PBTD: 3120'  
 OTD: 3505'  
 NTD: 4150'

9/27/69 Located leak in csg between 60 and 80' from surface  
 Cut casing @ 120', ran 107' 5-1/2" 14# J-55 csg w/Bowen  
 csg bowl, latch onto csg @ 100', set w/750# OK. Welded band  
 on 8-1/2" csg.

## **ACTUAL PLUGGING PROCEDURE**

- 1) Tagged existing CBP @ 3,130', pumped 25 sx C cmt 3,130 - 2,883'
- 2) 35 sx C cmt perforated & squeezed under packer 1,830 - 1,800' TAGGED
- 3) 35 sx C cmt perforated & squeezed under packer 1,000 - 885' TAGGED
- 4) 28 sx C cmt 465 - 235' TAGGED (perforated at 400', no rate at 1,500 psi)
- 5) 30 sx C cmt perforated & squeezed 50' - surface



|               |               |                     |       |
|---------------|---------------|---------------------|-------|
| Field Name:   | Maljamar      |                     |       |
| County:       | Lea           | Well Type:          | Oil   |
| State:        | New Mexico    | Depth:              | 4,110 |
| RRC District: |               | Drilling Commenced: |       |
| Section:      | 28            | Drilling Completed: |       |
| Block:        |               | Date Well Plugged:  |       |
| Survey:       | T-17-S R-32-E | Longitude:          |       |
|               |               | Latitude:           |       |
|               |               | Freshwater Depths:  |       |
| API #:        |               |                     |       |
| Lease or ID:  |               |                     |       |

| Casing      |               |              |            |                |                    |
|-------------|---------------|--------------|------------|----------------|--------------------|
| Description | Size (inches) | Depth (feet) | TOC (feet) | Cement (sacks) | Hole Size (inches) |
| Surface     | 8-5/8"        | 959          | 400        | 50             |                    |
| Production  | 7"            | 3,683        | 1,810      | 150            |                    |
| Liner (1)   | 5-1/2"        | 4,110        | 3,365      | 175            |                    |

| Proposed Plugs                |            |              |                |                |  |
|-------------------------------|------------|--------------|----------------|----------------|--|
| Description                   | Top (feet) | Depth (feet) | Volume (sacks) | Volume (cu ft) |  |
| CIBP                          | 3,200      | 3,200        |                |                |  |
| Cement-Class C - Balanced     | 3,100      | 3,200        | 25             | 14.8           |  |
| Cement-Class C - Sqr/Retainer | 1,300      | 1,500        | 50             | 14.8           |  |
| Cement-Class C - Balanced     | 1,250      | 1,300        | 15             | 14.8           |  |
| Cement-Class C - Sqr/Packer   | 900 (tag)  | 1,009        | 75             | 14.8           |  |
| Cement-Class C - Sqr/Packer   | surface    | 60           | 50             | 14.8           |  |

| Perforations |            |              |  |
|--------------|------------|--------------|--|
| Formation    | Top (feet) | Depth (feet) |  |
| San Andres   | 3,764      | 4,055        |  |
|              |            |              |  |
|              |            |              |  |
|              |            |              |  |

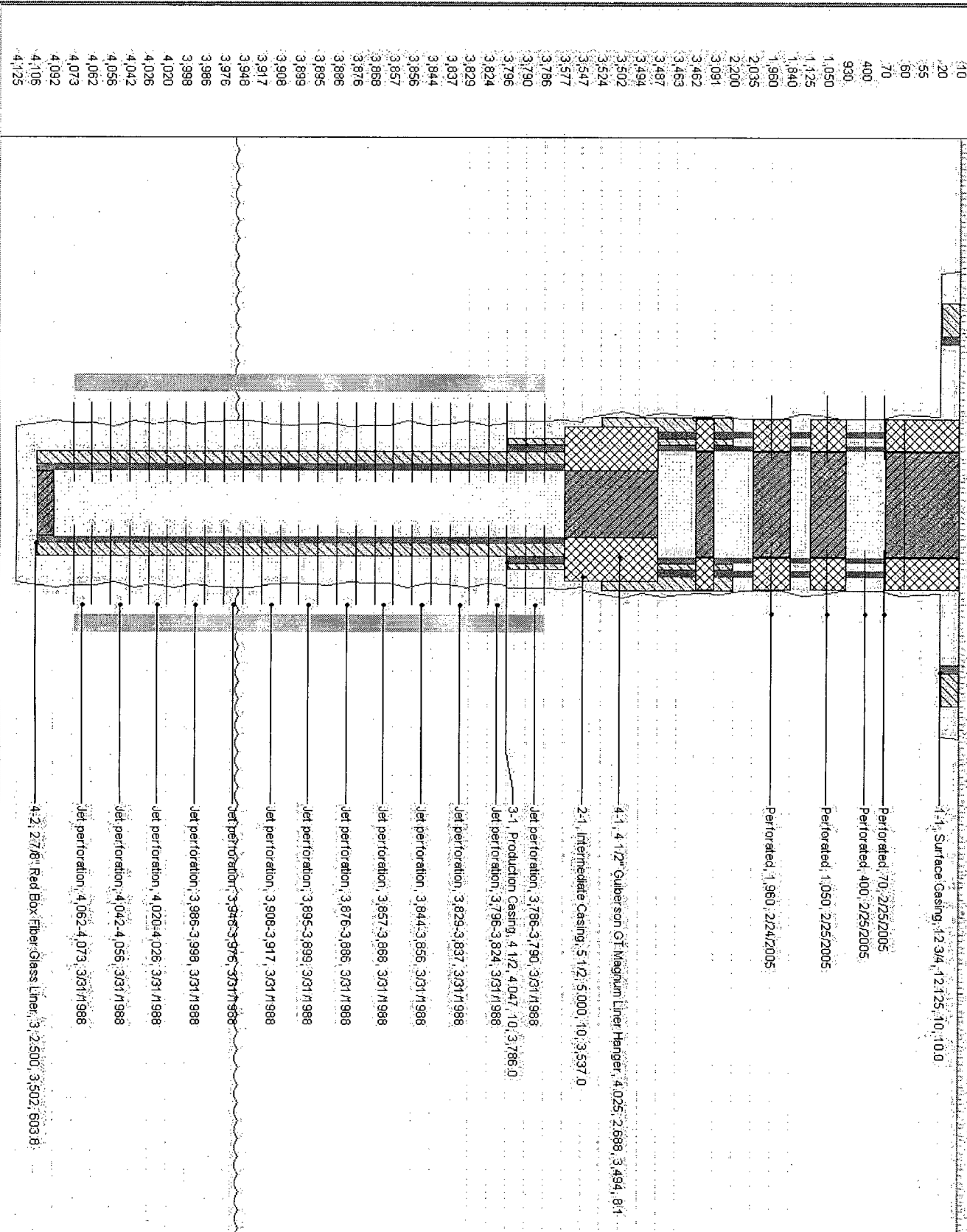
| Formations            |                  |
|-----------------------|------------------|
| Name                  | Top of Formation |
| estimated top of salt | 650              |
|                       |                  |
|                       |                  |

Comments

Fish is 25' to 2-7/8" tubing and mud anchor, top at 3,250'

Prepared By: Jim Newman  
Date: 9/5/2001

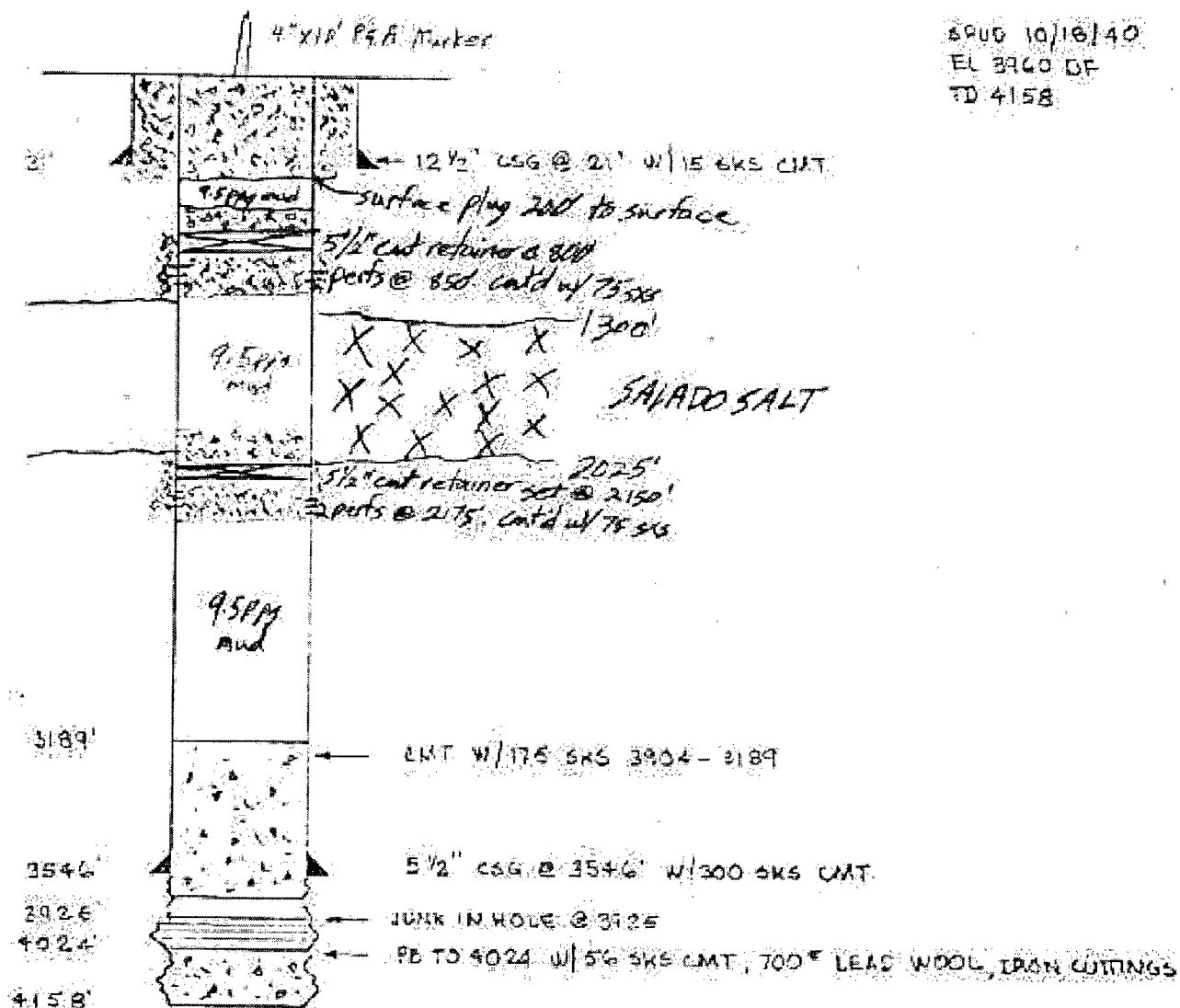
**TRIPLE N**  
SERVICES, INC.  
MIDLAND, TX



# P&A WELLBORE SKETCH

MCA 178  
1980 FSL & 1980 FEL  
SEC 28, T17S, R32E

TEMP. ABAND.  
9/5/72



## PAST HISTORY

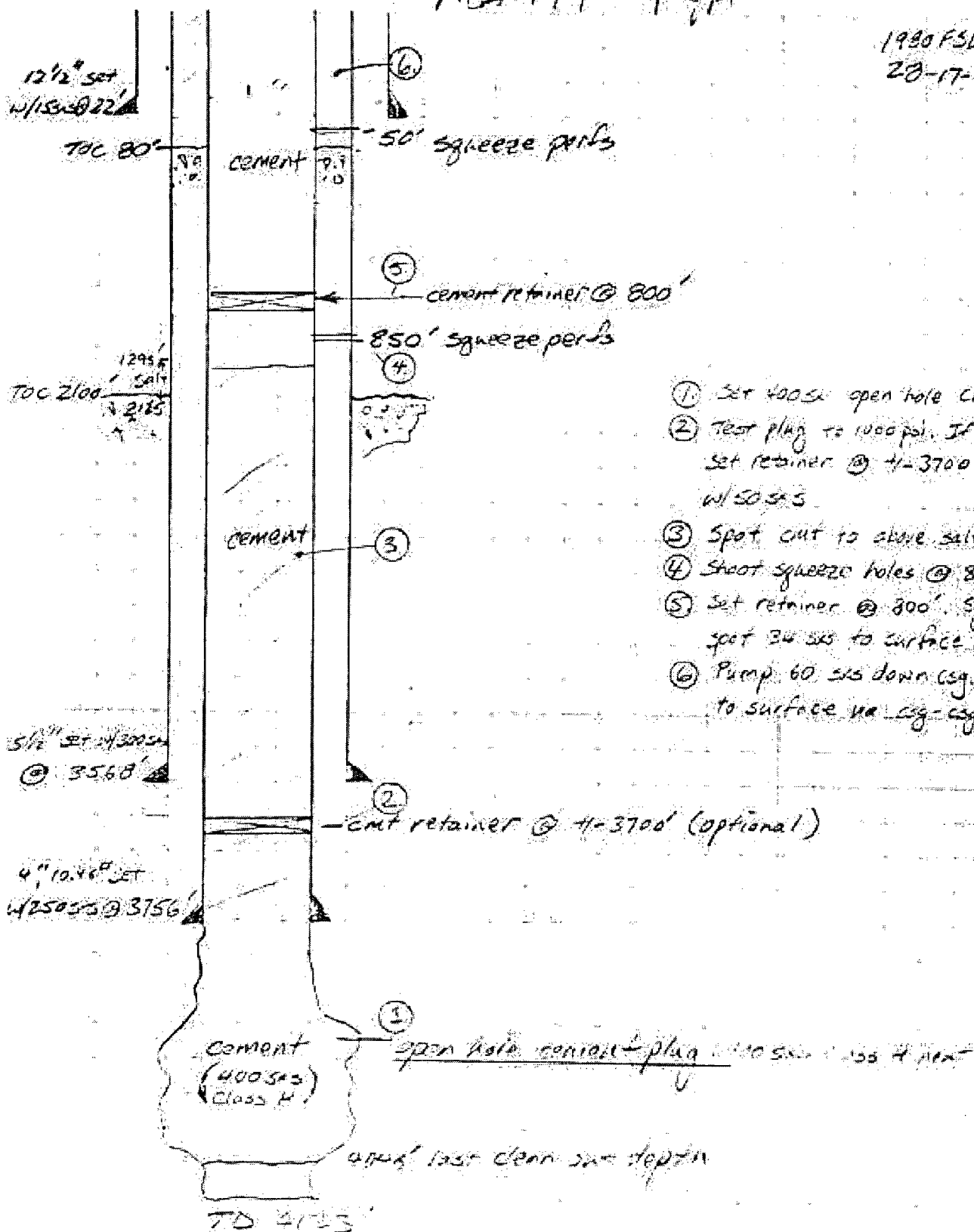
- 10/14/57 - SAND FRACTURED
- 3/10/63 - PUMPING EQUIP. INSTALLED
- 12/23/66 - CO TO 4024, CONV'T TO INJECTION
- 4/16/69 - JUNK IN HOLE @ 3925' 3-3 1/2" DC'S AND BIT, PKR
- 9/5/72 - TEMPORARILY ABANDONED SET 175 SKS CMT PLUG 3904 - 3189

GR

7/21/79

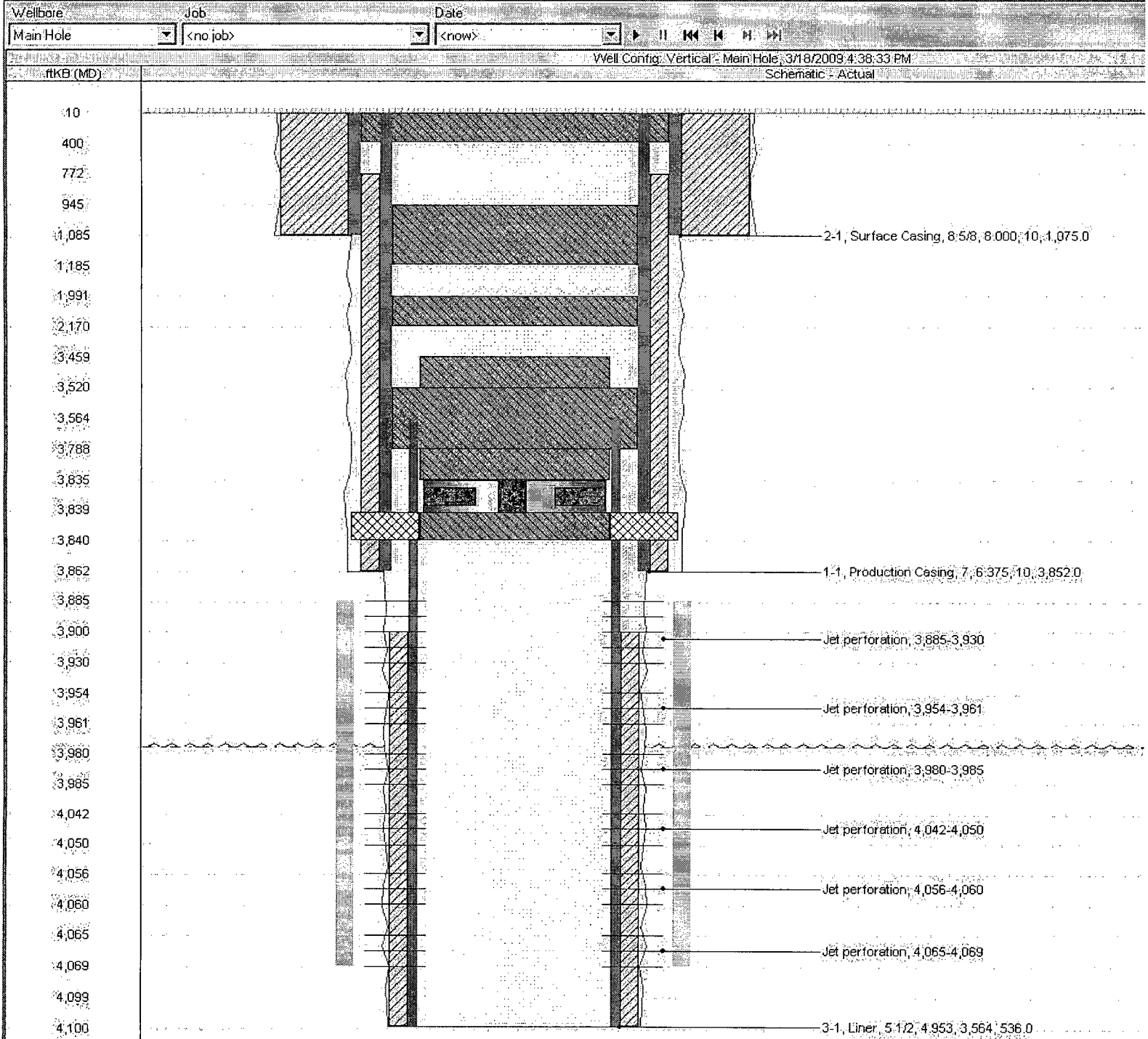
MLA 179 P&A

1980 FSL 660' FEL  
20-17-32



- ① Set 400 sac open hole cement plug (Class H)
- ② Test plug to 1000 psi. If it does not test, set retainer @ 4-3700' & sq. below w/ 50 sacs
- ③ Spot out to above salt section (900')
- ④ Shoot squeeze holes @ 850' & 50'
- ⑤ Set retainer @ 800'. Sq. w/ 400 sacs, spot 34 sacs to surface. P.O.H.
- ⑥ Pump 60 sacs down csg. circ. cement to surface via csg-csg annuli.

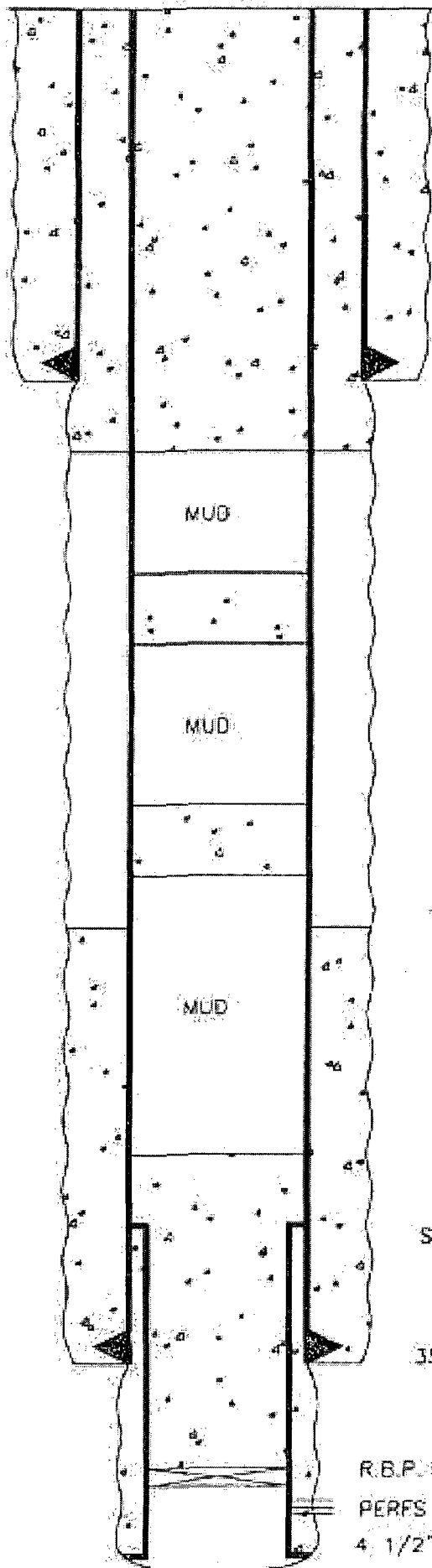
MCA 182



Elev. = 3951'

1/29/96

MCA 186



SPOT 10 SXS SURFACE PLUG

FILL 12 1/2" FROM TOP

20' - 12 1/2" Casing, Cemented w/25 sxs.

MUD

SPOT 15 SXS 950'-1100'

MUD

SPOT 15 SXS 1800'-1950'

T.O.C. @ 2600' (EST.)

MUD

SPOT 25 SXS 3250'-3590' ON TOP OF R.B.P.

3555' - 5 1/2" , 14# Casing, Cemented w/200 Sxs.

R.B.P. @ 3590'

PERFS 4008'-4206'

4 1/2" LINER 3326'-4250' CEMENTED  
w/350 SXS

T.D. @ 4250'

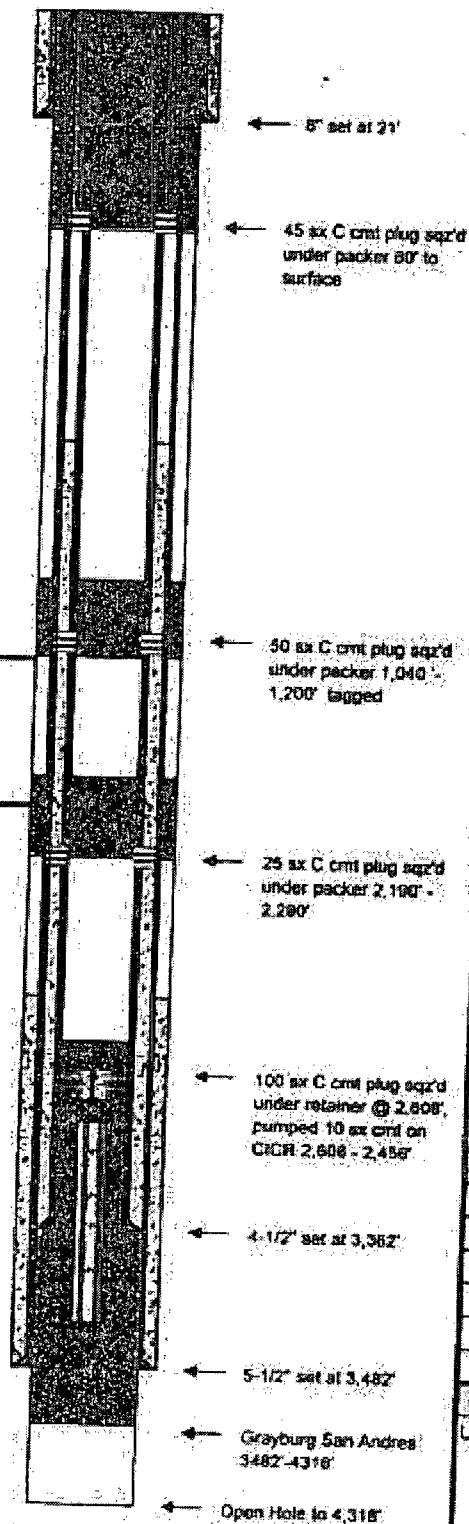
CONOCO, INC.

M.C.A. Unit #186

1980' FSL & 650' FEL

Sec. 27, T-17S, R-32E

Lea County, NM



|               |                              |                     |                   |
|---------------|------------------------------|---------------------|-------------------|
| Field Name:   | Maljamar/Grayburg/San Andres |                     |                   |
| County:       | Lea                          | Well Type:          | Oil               |
| State:        | New Mexico                   | Depth:              | 4,318'            |
| RRC District: |                              | Drilling Commenced: | December 8, 1940  |
| Section:      | 26                           | Drilling Completed: | February 22, 1941 |
| Block:        |                              | Date Well Plugged:  | January 6, 2004   |
| Survey:       | T-17-S, R-32-E               | Longitude:          |                   |
|               |                              | Latitude:           |                   |
| API #:        | 30-025-00709                 | Freshwater Depths:  |                   |
| Lease or ID:  | LC 058699Y                   | Salt Section:       | 1,200 - 2,210'    |

| Casing      |               |              |            |                |                    |
|-------------|---------------|--------------|------------|----------------|--------------------|
| Description | Size (inches) | Depth (feet) | TOC (feet) | Cement (sacks) | Hole Size (inches) |
| Surface:    | 8"            | 21           | Surface    | 25             |                    |
| Production: | 5-1/2"        | 3,482        | 2,300      | 250            |                    |
| Liner (1):  | 4-1/2"        | 3,362        | 920        | 50             |                    |

| Existing Plugs                      |               |              |                |                |  |
|-------------------------------------|---------------|--------------|----------------|----------------|--|
| Description                         | Top (feet)    | Depth (feet) | Volume (sacks) | Volume (cu ft) |  |
| 1 class C cmt, sqz'd under retainer | 2,608         | 2,610        | 100            | 132            |  |
| 2 class C cmt, balanced             | 2,456         | 2,608        | 10             | 13             |  |
| 3 class C cmt, sqz'd under packer   | 2,190         | 2,290        | 25             | 33             |  |
| 4 class C cmt, sqz'd under packer   | 1,040 (tag'd) | 1,200        | 50             | 56             |  |
| 5 class C cmt, sqz'd under packer   | surface       | 80           | 45             | 59             |  |

| Perforations        |            |              |  |
|---------------------|------------|--------------|--|
| Formation           | Top (feet) | Depth (feet) |  |
| Grayburg San Andres | 3,482      | 4,318        |  |

| Formations   |                  |  |
|--------------|------------------|--|
| Name         | Top of Formation |  |
| top of salt  | 1,200            |  |
| base of salt | 2,210            |  |

| Comments                                                                   |
|----------------------------------------------------------------------------|
| Unable to recover fish, left tubing and rods in hole, top of fish @ 2,645' |

Prepared By: Jim Newman  
Date: January 12, 2004

**TRIPLE N**  
SERVICES, INC.  
MCKINNEY, TX

RKB @ 3857  
 DF @ 3956  
 GL @ 3947

MCA 201

Subarea:  
 Lease & Well No:  
 Legal Description:  
 County:  
 Field:  
 Date Spudded:  
 API Number:  
 Status:

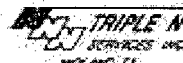
Maquamar  
 MCA Unit No. 201  
 1295' FSL & 1370' FWL, Sec. 28, T-17-S, R-32-E  
 Lea State New Mexico  
 Maquamar (Grayburg-San Andres)  
 Aug. 7, 1948 Rig Released: Oct. 10, 19948  
 30-025-00710  
 Proposed Plugged

Stimulation History:

| Interval  | Date     | Type                                     | Gels    | Lbs. Sand | Max Press | ISIP | Max Rate |
|-----------|----------|------------------------------------------|---------|-----------|-----------|------|----------|
|           | 10/9/48  | Shoot 4075'-4131' w/140 quarts Nitro     |         |           |           |      |          |
|           | 8/5/71   | DEEPEN TO 4310'                          |         |           |           |      |          |
| 4005-4043 | 8/9/71   | Gel Wtr Frac                             | 20,000  | 35,000    | 3300      | 1300 | 17.0     |
| 4255-4310 | 8/12/71  | 15% NE HCl                               | 3,000   |           | 3000      | 1800 |          |
| 4005-4133 | 8/14/71  | Trd Prod Wtr                             | 20,000  | 30,000    | 3800      | 1500 | 13.9     |
|           | 9/12/99  | Set RBP @ 3863', csg leak 104' to 907'   |         |           |           |      |          |
|           |          | Squeeze w/273 sacks cement, retrieve RBP |         |           |           |      |          |
| 3898-4310 | 9/13/99  | Frac                                     | 543 Bbs | 35,600    |           |      | 16.0     |
|           | 10/11/05 | Casing leak 856' to 862'                 |         |           |           |      |          |
|           | 10/27/05 | Set CRBP @ 2230'-2235'                   |         |           |           |      |          |
|           | 10/28/05 | Tubing leak in hole from 2245' to 3869'  |         |           |           |      |          |
|           |          | Rods left in hole 2257' to 3989'         |         |           |           |      |          |
|           |          | TEMPORARILY ABANDONED                    |         |           |           |      |          |

NOTE:

Removal of rods and tubing is required by NMOC prior to any plugging operation. There is approximately 1825' of rods and 1910' of tubing remaining to be recovered.



PROPOSED PLUGGING PROCEDURE

- 1) 75 sx C cmt 2,230 - 2,130', perf & sqz, TAG
- 2) 60 sx C cmt 1,237 - 1,137', perf & sqz, TAG
- 3) 80 sx C cmt 400 - 300', perf/sqz
- 4) 40 sx C cmt 50 - 3', perf/sqz, circulate cmt

Capacities

|                    |              |               |
|--------------------|--------------|---------------|
| 4-1/2" 9.5# csg.   | 10.960 ft/ft | 0.0912 ft3/ft |
| 5-1/2" 14# csg.    | 7.2990 ft/ft | 0.1370 ft3/ft |
| 7" 20# csg.        | 4.3990 ft/ft | 0.2273 ft3/ft |
| 8-5/8" 24# csg.    | 2.7970 ft/ft | 0.3576 ft3/ft |
| 8-5/8" 28# csg.    | 2.8530 ft/ft | 0.3505 ft3/ft |
| 10-3/4" 40.5# csg. | 1.8150 ft/ft | 0.5308 ft3/ft |
| 7-7/8" openhole:   | 2.9565 ft/ft | 0.3382 ft3/ft |
| 12-1/4" openhole:  | 1.2218 ft/ft | 0.8185 ft3/ft |

Formation Tops:

Top Salt 1187'  
 Base Salt 2210'

40 sx C cmt 50 - 3', perf/sqz, circulate cmt

CSG LEAK 104' TO 907'  
 SQZ'D W/ 273 SX

80 sx C cmt 400 - 300', perf/sqz

12-1/4" Hole

TOC @ N/A

8-5/8" 28# csg @ 1,187' w/ 75 sx  
 Top Salt @ 1,187'

60 sx C cmt 1,237 - 1,137', perf & sqz, TAG

75 sx C cmt 2,230 - 2,130', perf & sqz, TAG  
 CRBP @ 2,230'  
 Base Salt @ 2,210'  
 TOC @ 2,300'

TBG & RODS LEFT IN HOLE Fr 2,248 - 3,989'

8-3/4" Hole

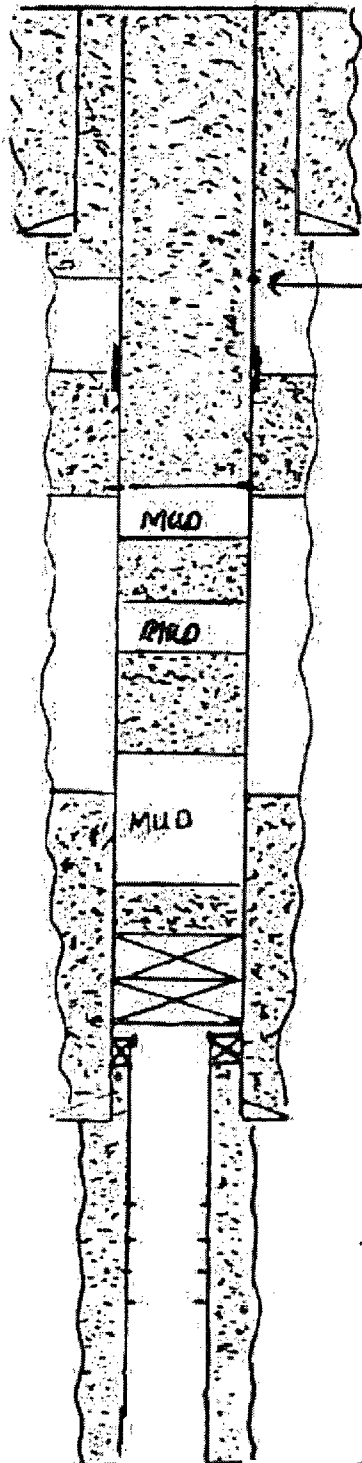
4-1/2" Hole

4075'-4131' - Shot w/140 Qts Nitro

OH 3895' - 4310'

PBTD @ 2230'  
 OTD @ 4130'  
 NTD @ 4310'

MCA 202



8 5/8" 22' w/ 25545 cmt

Bad casing at 30' ± Squeeze w/ 450 S4S To Surface  
(YEAR 1985 AT 30' DOWN FROM SURFACE)

5 1/2" BROWN CASING Patch 76' Squeeze w/ 450 S4S cmt To Surface

Perforate 5 1/2" at 300' 65 S4S cmt

Spot 25 S4S Plug 1000 - 750'

Spot 25 S4S Plug At 2200 - 1950'

TOC BEHIND 5 1/2" CASING 2400' EST.

Spot 25 S4S 3150' - 2900'

CIBP 5 1/2" 3150'

RBP 5 1/2" 14 3152'

Lower Tool 4" 3157'

T.D. 5 1/2" 3486'

Perfs 4022' - 4272'

4" T.D. 4285'

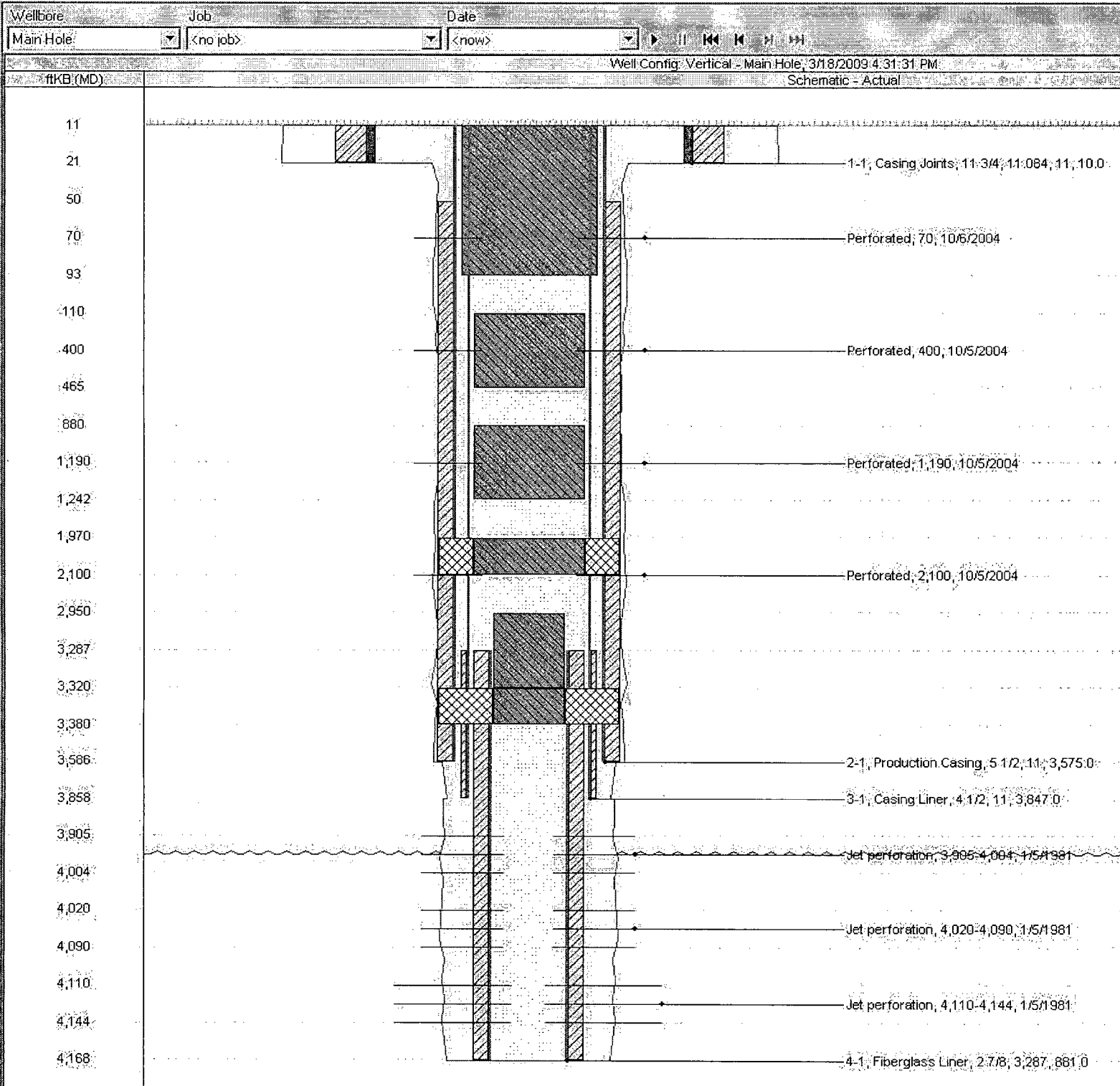
CONOCO INC.

MCA Unit 202

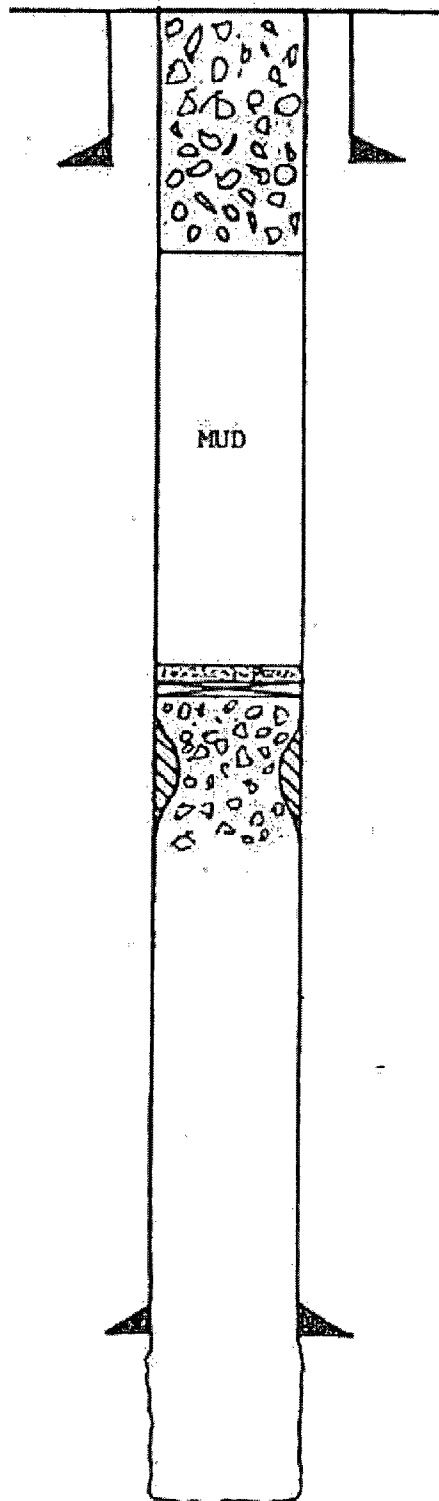
SEC. 26 T-175, R 32E

LEA County NEW MEXICO

MCA 207



MCA NO. 208



660' FSL & 1980' FEL  
Sec. 28, T-17S, R-32E

Plugged and abandoned-November  
Completed-January 1941

8" Casing at 21' w/15 sx cement

140 sack cement plug 1250' to surface

30 sx squeezed into holes @ 28'-30'

Salt zone approx. 1050'-2300'

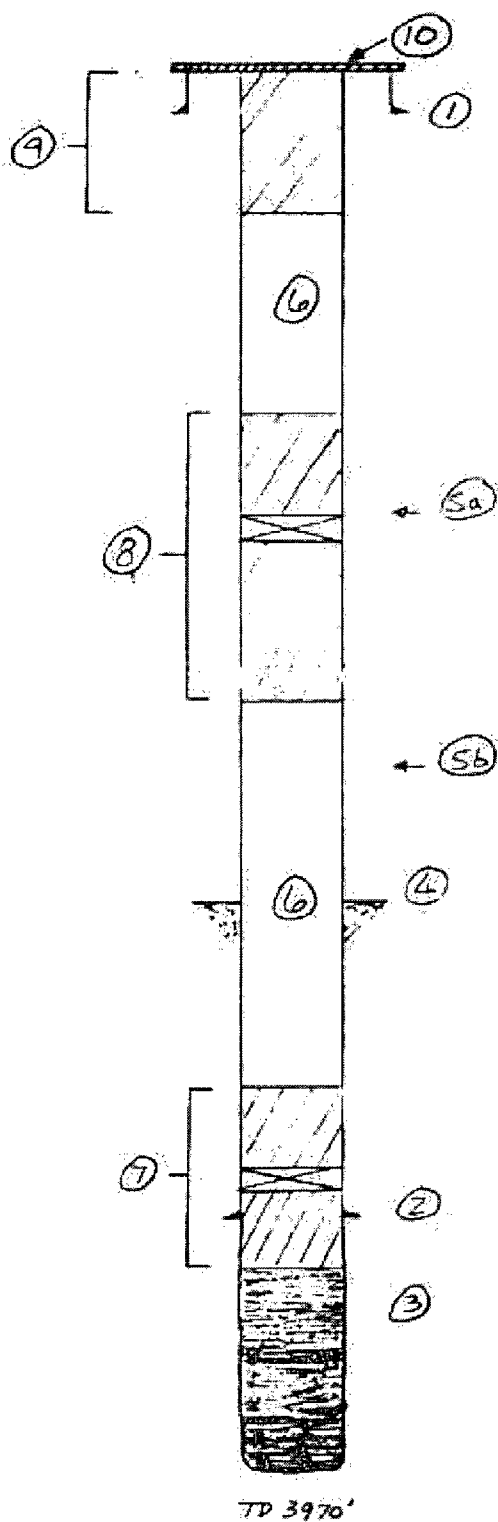
Cement retainer at 2115' with 30 sx cement on top  
Squeezed beneath retainer with 300 sx cement.  
Collapse casing at 2200'

Junk in hole: two strings tools, top at 2200'

5-1/2" casing at 3595' w/300 sx cement  
OH shot 400 qts. 3841' to 4000'

4000' TD

# MCA 210



- ① 12 1/2" CSL @ 22' CMTD W/ 15 SX
- ② 5 1/2" CSL @ 3563' CMTD W/ 300 SX
- ③ OH SHOT 3800'-3930' W/ 340 yb.  
JUNK IN HOLE 3930-70 (40'-5" OD CABLE TOOLS)  
TOF @ 3857 (MEASURED 1-29-81)  
PLUG BACK W/ GRAVEL TO 3790'.
- ④ TOG-NR; CALC. ASSUMING 10" OH @ 3700'.
- ⑤a TOP OF SALT @ 985'; ⑤b BASE @ 2020'
- ⑥ 10 PPG MUD
- ⑦ CEMENT RETAINER @ 3350':  
25 SX C1 'C' OR 240' CEMENT PLUG ABOVE  
RETAINER. 50 SX C1 'C' BELOW RETAINER.
- ⑧ CEMENT RETAINER @ 950':  
25 SX C1 'C' OR 240' CEMENT PLUG ABOVE  
RETAINER. 200 SX C1 'C' CEMENT BELOW  
RETAINER & SQUEEZED INTO HOLE @ 1518'.
- ⑨ 25 SX C1 'C' OR 240' CEMENT PLUG  
FROM 240' TO SURFACE.
- ⑩ CUTOFF ALL CASING 3' BELOW GL.  
CEMENT CAP 4" THICK & 2' DIAMETER.

RKB @ 3928  
DF @ 3927  
GL @ 3917

MCA 220

Subarea: Hobbs  
Lease & Well No: MCA Unit No: 220W  
Legal Description: 660 FSL & 660 FEL, Sec 33, T-17-S, R-32-E  
County: Lea State: New Mexico  
Field: Maljamar (Grayburg-San Andres)  
Date Spudded: May 23, 1939 Rig Released: Aug 8, 1939  
API Number: 30-029-00798  
Status: PLUGGED 04/18/07  
Lease Serial No: LC-055001

Perf & sqz'd 90 sx C cmt 100'  
to surface, circulated cmt  
TOC 4-1/2" Liner @ 325'  
Bridenhead Sqz surf int cas annulus  
w/20 bbls flow-check  
w/100 sx Class H cement

Perf & sqz'd 80 sx C cmt 400 - 245'  
TAGGED

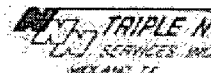
#### Stimulation History:

Hole Size N/A

| Interval   | Date     | Type                                                                                                | Gals   | Lbs. Sand     | Max Press | ISIP | Max Rate | Down |
|------------|----------|-----------------------------------------------------------------------------------------------------|--------|---------------|-----------|------|----------|------|
| 36841-3801 | 12/16/40 |                                                                                                     |        | 2 Qls Nitro   |           |      |          |      |
| 3820-3945  | 6/11/47  |                                                                                                     |        | 450 Qls Nitro |           |      |          |      |
|            | 6/25/54  | Plug back to 3500' w/10 sx, set BP @ 3500' w/1-1/2 sx on top                                        |        |               |           |      |          |      |
|            |          | Perf 3198-3238 w/160 shots                                                                          |        |               |           |      |          |      |
| 3198-3238  | 4/28/54  | Oil                                                                                                 | 10,000 | 20,000        | 2800      |      | 11.0     |      |
|            | 8/15/54  | Squeeze 3198-3238 w/100 sx cement                                                                   |        |               |           |      |          |      |
|            | 8/20/56  | Drill out cmt & CO to 3897, dump 1 sx Calseal in bit of hole                                        |        |               |           |      |          |      |
|            |          | Top of Calseal @ 3864'                                                                              |        |               |           |      |          |      |
|            | 8/21/56  | Gelled Crude                                                                                        | 10,000 | 15,000        | 3400      |      | 18.5     |      |
|            | 2/20/67  | Cleanout from 3693-3892'                                                                            |        |               |           |      |          |      |
|            | 3/2/68   | Convert to water injection                                                                          |        |               |           |      |          |      |
|            | 6/24/72  | Set 4-1/2" 9.5# LINER @ 3815'                                                                       |        |               |           |      |          |      |
|            | 6/18/84  | Sqz csg leaks @ 3647 & 3886 with 70 sx cement                                                       |        |               |           |      |          |      |
|            | 6/85     | Bridenhead Squeeze surface-intermediate casing annulus w/20 bbls flow-check w/100 sx Class H cement |        |               |           |      |          |      |
|            | 1/1/88   | Shut-in                                                                                             |        |               |           |      |          |      |
|            | 10/7/88  | placed back on injection                                                                            |        |               |           |      |          |      |
|            | 7/14/92  | 1.71 R Profile Nipple set @ 3541'                                                                   |        |               |           |      |          |      |
|            |          | Baker Loc Set Pkr w/ik valve Set @ 3515'                                                            |        |               |           |      |          |      |
|            |          | Temporarily Abandoned                                                                               |        |               |           |      |          |      |

Base Silt @ 2030'

Perf & sqz'd 40 sx C cmt 2,130 - 1,950' TAGGED



PLUGS SET 04/11/07 thru 04/17/07

- 1) 75 sx C cmt 3,810 - 2,677' TAGGED
- 2) Perf & sqz'd 40 sx C cmt 2,130 - 1,950' TAGGED
- 3) 25 sx C cmt 1,280 - 900' TAGGED
- 4) Perf & sqz'd 80 sx C cmt 400 - 245' TAGGED
- 5) Perf & sqz'd 90 sx C cmt 100' to surface, circ cmt

75 sx C cmt 3,810 - 2,677' TAGGED

3198-3238 - Sqz'd w/100 sx

BP @ 3500' w/1-1/2 sx - drilled out  
Baker Lockset w/ik Valve RBP @ 3515'  
Giberson Pkr w/plug set @ 3541'

Hole Size - N/A

7" 20# @ 3566.5' 3647'

Cmt'd w/100 sx 3686' - Csg leaks sqz'd w/70 sx

TOC @ N/A

Hole Size - N/A

4-1/2" 9.5# J-55 LINER @ 1815' cmt'd w/300 sx, TOC 125'

#### Casing / Openhole Capacities

|                  |        |       |        |      |
|------------------|--------|-------|--------|------|
| 4 1/2" 9.5# csg  | 10.965 | ft/m3 | 0.0912 | ft/m |
| 5 1/2" 17# csg   | 7.881  | ft/m3 | 0.1305 | ft/m |
| 7" 20# csg       | 4.369  | ft/m3 | 0.2273 | ft/m |
| 7" 26# csg       | 4.055  | ft/m3 | 0.2148 | ft/m |
| 7 1/2" 24# csg   | 3.715  | ft/m3 | 0.2591 | ft/m |
| 8 1/2" 20# csg   | 2.733  | ft/m3 | 0.3659 | ft/m |
| 8 1/2" 24# csg   | 2.797  | ft/m3 | 0.3575 | ft/m |
| 8 1/2" 26# csg   | 2.853  | ft/m3 | 0.3508 | ft/m |
| 8 1/2" openhole  | 4.024  | ft/m3 | 0.2485 | ft/m |
| 7 1/2" openhole  | 2.957  | ft/m3 | 0.3392 | ft/m |
| 9 1/2" openhole  | 2.032  | ft/m3 | 0.4922 | ft/m |
| 10" openhole     | 1.834  | ft/m3 | 0.5454 | ft/m |
| 12 1/2" openhole | 1.222  | ft/m3 | 0.8165 | ft/m |

Seven Rivers

Grayburg 4th 3680'

Grayburg 5th 3741'

Grayburg 6th 3819'

QH 3557-3992'

3820-3915 - Shot w/450 Quarts

CALSEAL TOP @ 3884'

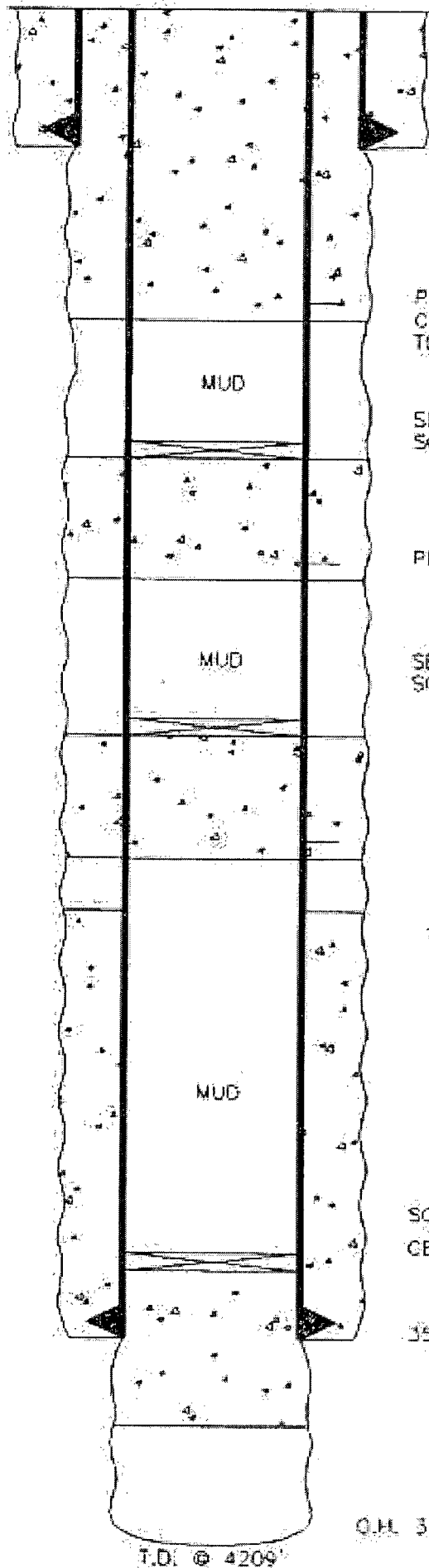
JUNK IN HOLE @ 3957'

PBTD @ 3941'  
TD @ 4283'

Elev. = 3951' GL

10/18/99

MCA 224



27' - 8 5/8" Casing Cemented w/17 sxs.

PERFORATE 5 1/2" CSG. @ 350'  
CIRCULATE 150 SXS CEMENT THRU PERFS @ 350'  
TO FILL HOLE TO SURFACE

SET A CEMENT RETAINER @ 1100'  
SQUEEZE 50 SXS CEMENT THRU PERFS @ 1100'

PERFORATE 5 1/2" CSG. @ 1200'

SET A CEMENT RETAINER @ 2050'  
SQUEEZE 50 SXS CEMENT THRU HOLES @ 2150'

Hole in Csg. 2150-2275'

T.O.C. @ 2800' (Calculated)

SQUEEZE 25 SXS CEMENT THRU RETAINER  
CEMENT RETAINER @ 3500'

3547' - 5 1/2", 14 1/2" Casing Cemented w/150 sxs.

O.H. 3547-4209'

T.D. @ 4209'

CONOCO, INC.

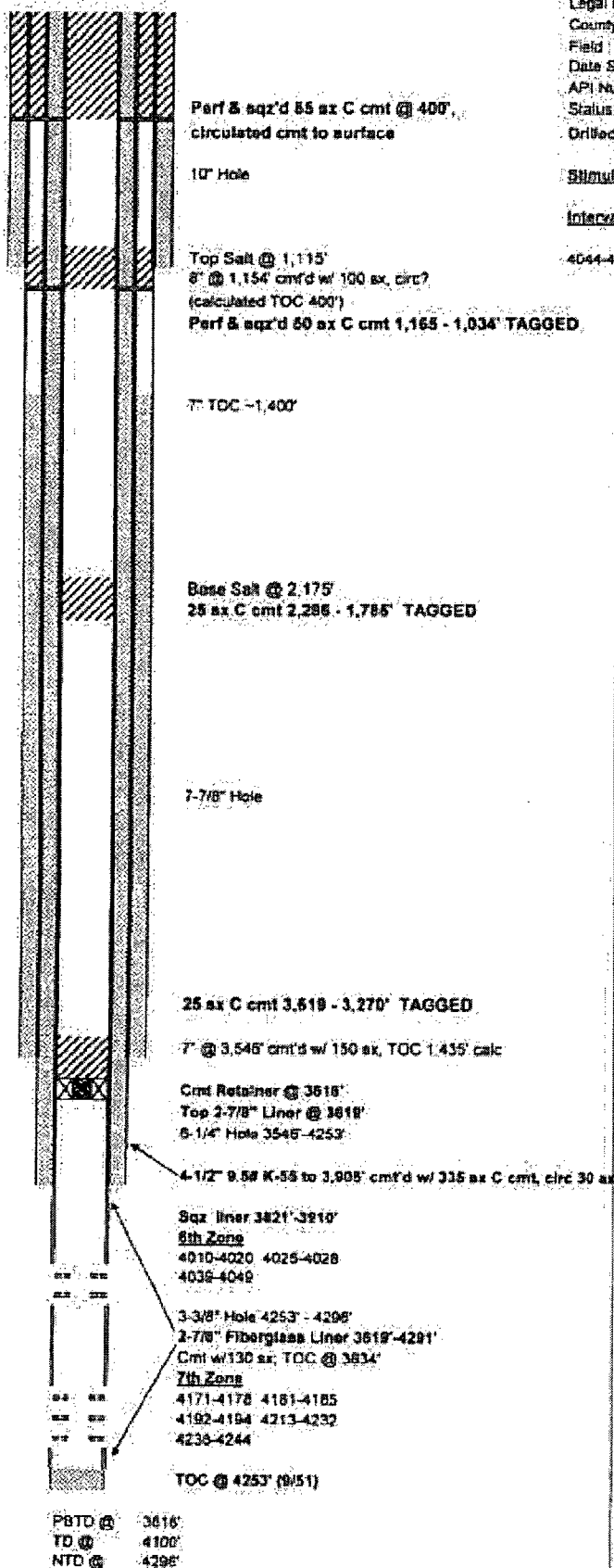
M.C.A. Unit #224

560' FNL & 660' FEL

Sec. 33, T-17S, R-32E

Lea County, NM

RKB @ 3965'  
DF @ 3964'  
GL @ 3958'



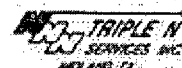
MCA 226

Subarea: Matamor  
Lease & Well No.: MCA Unit No. 226W  
Legal Description: 680' FNL & 680' FWL, Sec. 34, T-17-S, R-32-E  
County: Lea State: New Mexico  
Field: Matamor (Grayburg-San Andres)  
Date Spudded: 2/25/41 Rig Released: 4/22/41  
API Number: 30-025-00917  
Status: PLUGGED 12/21/08

Drilled as Pearsall EXY No. 1

# Stimulation History:

| Interval  | Date     | Type                                                                                                                                                           | Gals       | Lib. Sand | Max Press. BOP | Max Rate Down |
|-----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|----------------|---------------|
| 4044-4194 | 4/22/41  | Nitro                                                                                                                                                          | 500 Quarts |           |                |               |
|           | 9/10/51  | Deepened to 4288'                                                                                                                                              |            |           |                |               |
|           | 9/12/51  | Dump 8 sx; TOC @ 4280'                                                                                                                                         |            |           |                |               |
|           | 9/18/51  | Dump 4 sx; TOC @ 4253'                                                                                                                                         |            |           |                |               |
|           | 5/1/53   | Change in well designation, unitization renumbered as MCA Unit No. 226 from Pearsall EXY No. 1                                                                 |            |           |                |               |
|           | 6/5/54   | Cut paraffin and swab to make flow                                                                                                                             |            |           |                |               |
|           | 2/12/55  | Swab to make flow                                                                                                                                              |            |           |                |               |
|           | 10/24/58 | Check and pulled tubing; rerun and run pump and rods                                                                                                           |            |           |                |               |
|           | 5/10/59  | RU unit, her bkg 2 fts. Tag btm. Top set 5' off btm.                                                                                                           |            |           |                |               |
|           | 12/7/59  | RU unit, pull rods and pmp, change pump. Rerun in well, put back on production                                                                                 |            |           |                |               |
|           | 10/25/72 | Tag fill @ 3348', CO from 3948' to 4253'. Set pcr @ 3870' and frac w/30,000 gals treated prod wtr and 60,000# 20/40 sand @ 16.8 BPM @ 3300 psi. AFE 40-61-1685 |            |           |                |               |
|           | 1/5/73   | RU unit, pulled rods, change pmp, preparing for larger pmpg equipment                                                                                          |            |           |                |               |
|           | 5/24/74  | RU unit, pulled rods and pump; CO pmp, rerun in well and have put back on production                                                                           |            |           |                |               |
|           | 6/27/74  | RU unit, pulled rods & pmp. Drapped SV and tat tr. Pull bkg, change out MA and 1st fl w/hoie in it. Run rods and new pmp and put back on prod                  |            |           |                |               |
|           | 7/31/75  | Set 4-1/2" liner @ 3905', cmt w/335 sx cmt.                                                                                                                    |            |           |                |               |
|           | 9/18/75  | Laid 2-1/16" inj line, inj wtr @ rate of 850 BWVPD @ 410 psi. Convert to water injection                                                                       |            |           |                |               |
|           | 2/2/88   | Set 2-7/8" liner 3819'-4291' and perforate 8th Zone: 4010'-4049', 7th zone 4171'-4232' and 4238'-4244'                                                         |            |           |                |               |
|           | 5/24/88  | Run injection profile - minor channeling above top perfs                                                                                                       |            |           |                |               |
|           | 4/17/89  | Run injection Profile w/24 hr shut in temp survey                                                                                                              |            |           |                |               |
|           | 12/31/99 | Set cement retainer @ 3816', circ 60 bbls pkr fluid. Temporarily Abandoned                                                                                     |            |           |                |               |



PLUGS SET 12/18/06 thru 12/21/08

- 1) 25 sx C cmt 3,619 - 3,270' TAGGED
- 2) 25 sx C cmt 2,286 - 1,785' TAGGED
- 3) Perf & sqz'd 50 sx C cmt 1,165 - 1,034' TAGGED
- 4) Perf & sqz'd 85 sx C cmt 400' to surface, circ

## Capacities

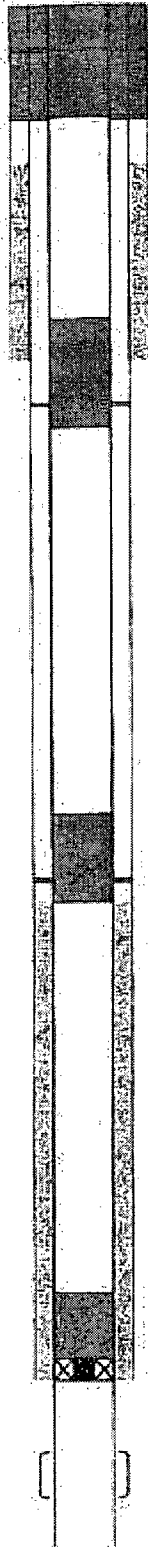
|                    |             |             |
|--------------------|-------------|-------------|
| 4 1/4" 9.5# csg:   | 10.965 ft/m | 0.0912 ft/m |
| 4 1/2" 10.23# csg: | 11.167 ft/m | 0.0895 ft/m |
| 6-3/4" openhole:   | 4.024 ft/m  | 0.2485 ft/m |
| 7-7/8" openhole:   | 2.997 ft/m  | 0.3382 ft/m |
| 10" openhole:      | 1.834 ft/m  | 0.5454 ft/m |
| 7 5/8" 24# csg:    | 3.715 ft/m  | 0.2691 ft/m |
| 8 5/8" 20# csg:    | 2.733 ft/m  | 0.3698 ft/m |
| 8 5/8" 24# csg:    | 2.797 ft/m  | 0.3575 ft/m |

**PLUGGED WELLBORE SKETCH**  
ConocoPhillips Company - Permian Basin Business Unit

**MCA 227**

Date: March 2, 2005

RKB @ N/A  
DF @ N/A  
GL @ N/A



80 ex C cmt sq'd 75' - surface

150 ex C cmt sq'd 400 - 78' TAGGED

Top of Salt @ 1100'  
8-1/4" @ 1,135' w/ 50 ex  
TOC @ Surface (?)

40 ex C cmt 1,248 - 1,030' TAGGED  
Perforated at 1,185', unable to squeeze  
at 1,000 psi

Base of Salt @ 2285'  
30 ex C cmt 2,437 - 2,235' TAGGED  
Perforated at 2,385', unable to squeeze at 1,800 psi  
TOC @ 2,443' (Est.)

unable to string into CICR @ 3,700'  
30 ex C cmt on CICR 3,700 - 3,525'  
Cmt Retainer @ 3700'  
7" 32# @ 3,743' w/ 100 ex

OH 3743 - 4171'

4045' - 4150' shot w/270 qts Nitro

PBTD @ 3700'  
OTD @ 4171'  
NTD @ 4200'

Subarea  
Lease & Well No.  
Legal Description  
County  
Field  
Date Spudded  
API Number  
Status  
Drilled as Pearsall B No. 1

Mallamur  
MCA Unit No. 227  
6607 FNL & 18807 FWL, Sec 34, T-17-S, R-32-E  
Lea State New Mexico  
Mallamur (Grayburg-San Andres)  
June 18, 1941 IPP  
30-025-00818  
Plugged & Abandoned 03/01/05

**Stimulation History:**

| Interval     | Date     | Type                                                                                        | Gals       | Lbs. Sand | Max Press | 512  | Max Rate | Down   |
|--------------|----------|---------------------------------------------------------------------------------------------|------------|-----------|-----------|------|----------|--------|
| OH 4045-4150 | 8/13/41  | Nitroglycerin                                                                               | 270 Quarts |           |           |      |          |        |
|              | 5/1/83   | Effective with Utilization renumbered MCA Unit No. 227                                      |            |           |           |      |          |        |
| 3743-4171    | 3/18/71  | Scale inhibition treatment                                                                  |            |           |           |      |          |        |
|              | 9/13/86  | CO and jet wash to 4140'                                                                    |            |           |           |      |          |        |
| 3743-4171    | 9/15/88  | 15% NEFE                                                                                    | 2,688      |           | 1550      | 1500 | 2.5      | 2-7/8" |
|              | 9/29/88  | Test: 4 BO, 85 BW                                                                           |            |           |           |      |          |        |
|              | 10/17/89 | Deepen from 4171' to 4200'                                                                  |            |           |           |      |          |        |
| 3743-4200    | 10/18/89 | 15% NEFE                                                                                    | 3,750      | 800#RS    | 2100      | 1900 | 4.0      | 2-7/8" |
|              |          | 20# Gel                                                                                     | 22,461     | 43,376    | 3100      | 2000 | 18.0     |        |
|              | 10/25/89 | Test: 3 BO, 11 BW                                                                           |            |           |           |      |          |        |
|              | 1/17/90  | Change rod string                                                                           |            |           |           |      |          |        |
|              | 3/23/90  | Parted rods                                                                                 |            |           |           |      |          |        |
|              | 5/22/90  | Parted polish rod; CO 22 3/4" rods due to being cork screwed                                |            |           |           |      |          |        |
|              | 6/17/91  | COP; fish part                                                                              |            |           |           |      |          |        |
|              | 6/5/91   | fish PR - could not retrieve                                                                |            |           |           |      |          |        |
|              |          | fish rods and pump                                                                          |            |           |           |      |          |        |
|              | 6/1/92   | CO tight spot @ 3800'; CO several scale bridges to TD.<br>Heavy scale build-up.             |            |           |           |      |          |        |
|              | 1/7/00   | Laid down rods and pump. Ran cement retainer to 3700'.<br>Set retainer and lay down tubing. |            |           |           |      |          |        |
|              | 2/1/00   | BLM Sundry Notice filed to temporarily abandon                                              |            |           |           |      |          |        |
|              | 3/9/04   | BLM Sundry Notice that TA expires 1/21/05                                                   |            |           |           |      |          |        |
|              | 10/25/04 | Prepare Application for Abandonment of Well                                                 |            |           |           |      |          |        |



**ACTUAL PLUGGING PROCEDURE**

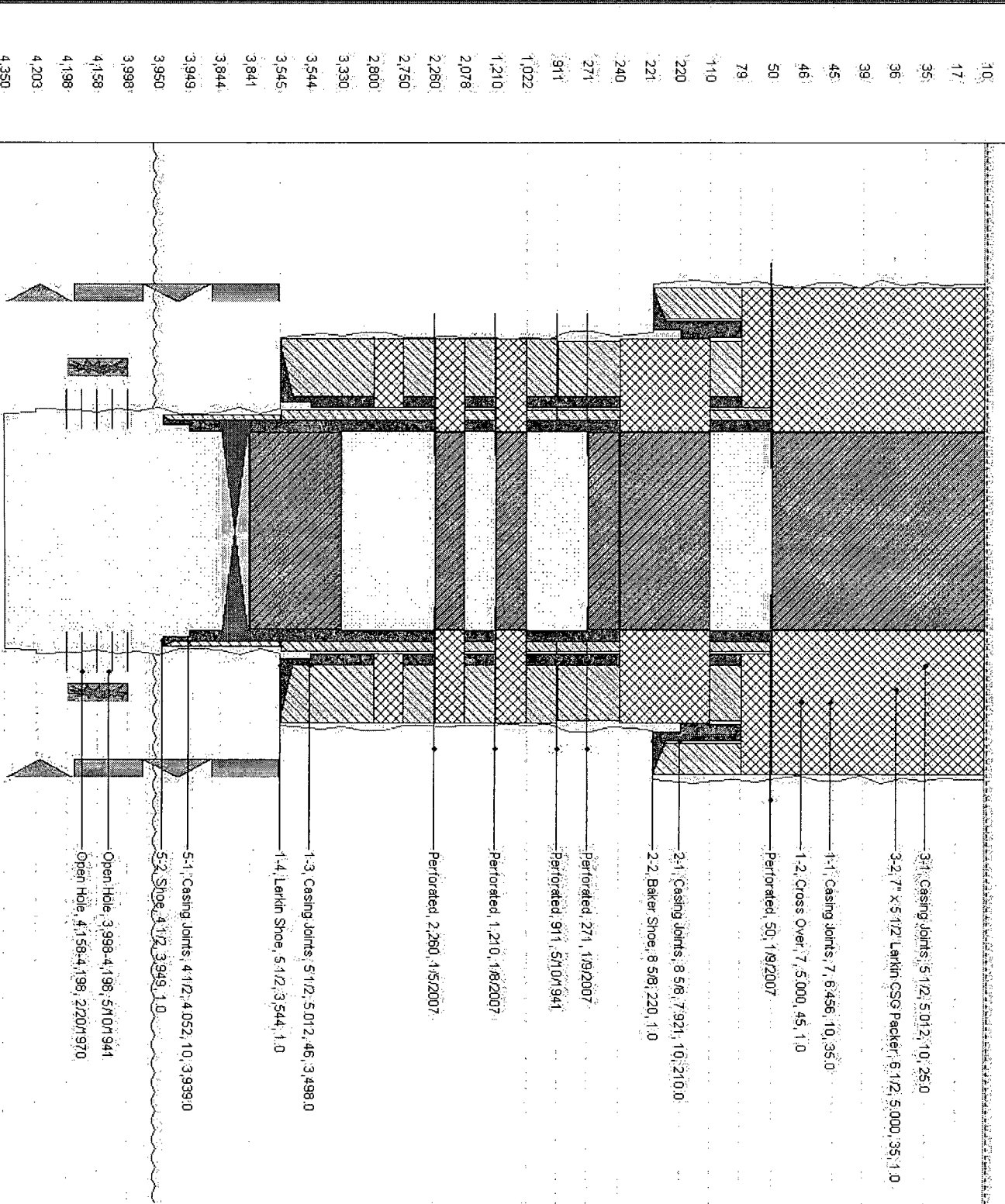
- 1) unable to string into CICR @ 3,700'
- 2) 30 ex C cmt on CICR 3,700 - 3,525'
- 3) 30 ex C cmt 2,437 - 2,235' TAGGED
- 4) 40 ex C cmt 1,248 - 1,030' TAGGED
- 5) 150 ex C cmt sq'd 400 - 75' TAGGED
- 6) 50 ex C cmt sq'd 75' - surface

Wellbore Main Hole Job Date

<no job> <now>

Well Contig. Vertical: Main Hole, 3/19/2009 4:49:48 PM

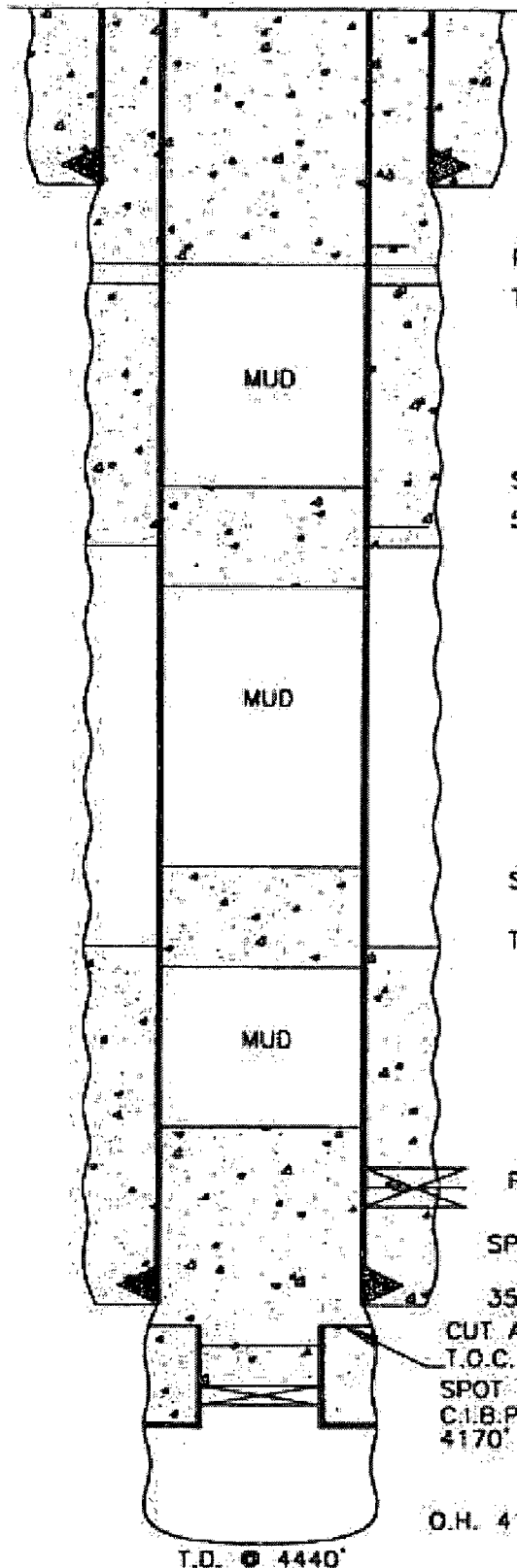
Schematic: Actual



Elev. = 3941' KB

6/26/00

MCA 229



CIRCULATE 100 SXS CEMENT THRU PERFS AT 150'  
AND FILL HOLE TO SURFACE

15' - 8" Casing. Cemented w/25sxs. Circulated to Surface.

PERFORATE 5 1/2" CASING AT 150'  
T.O.C. @ 150' (Calculated)

SPOT 25 SXS CEMENT PLUG 800'-1050'. TAG PLUG.  
5 1/2" Casing Perforated at 1000' Sqz'd w/250 sxs

SPOT 25 SXS CEMENT PLUG 1900'-2150'. TAG PLUG.  
T.O.C. @ 2125' (Calculated)

Perfs 3468'-3504' Sqz'd w/100 sxs cmt.

SPOT 35 SXS CEMENT PLUG 3350'-3670'. TAG PLUG.

3566' - 5 1/2" Casing. Cemented w/250 sxs  
CUT AND PULL 4 1/2" CASING AT 3620'  
T.O.C. @ 3700'

SPOT 25 SXS CEMENT PLUG 3745'-4112' ON TOP OF C.I.B.P.  
C.I.B.P. @ 4112'  
4170' - 4 1/2", 10.23#, Hydril FS Cemented w/250 sxs

O.H. 4170'-4440'

T.D. @ 4440'

CONOCO, INC.

M.C.A. Unit #229

1980' FNL & 660' FWL

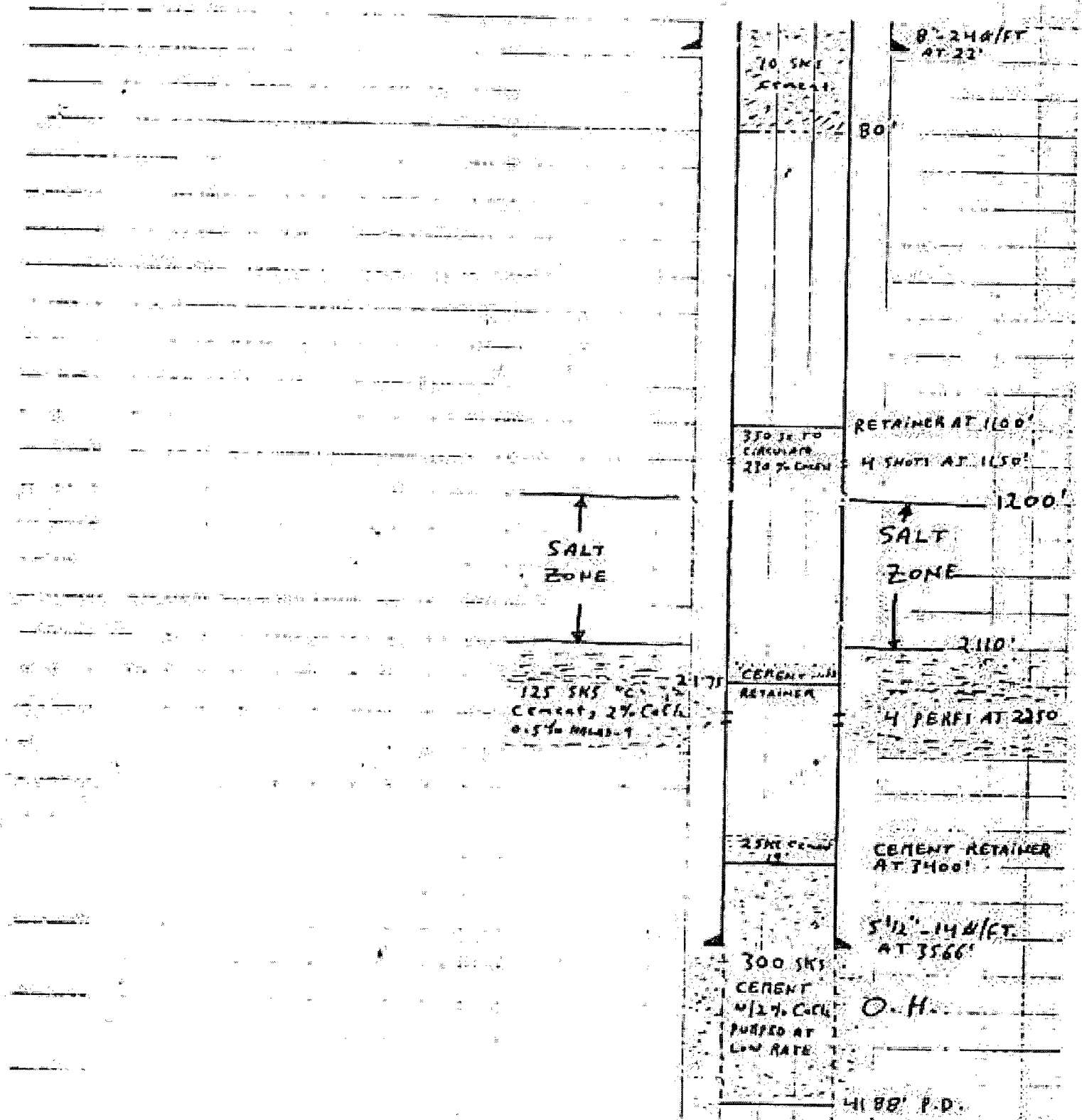
Sec. 34, T-17S, R-32E

Lea County, NM

# MCA NO. 230 IW

0.1737 14111-1 10-2-50 10-2-50

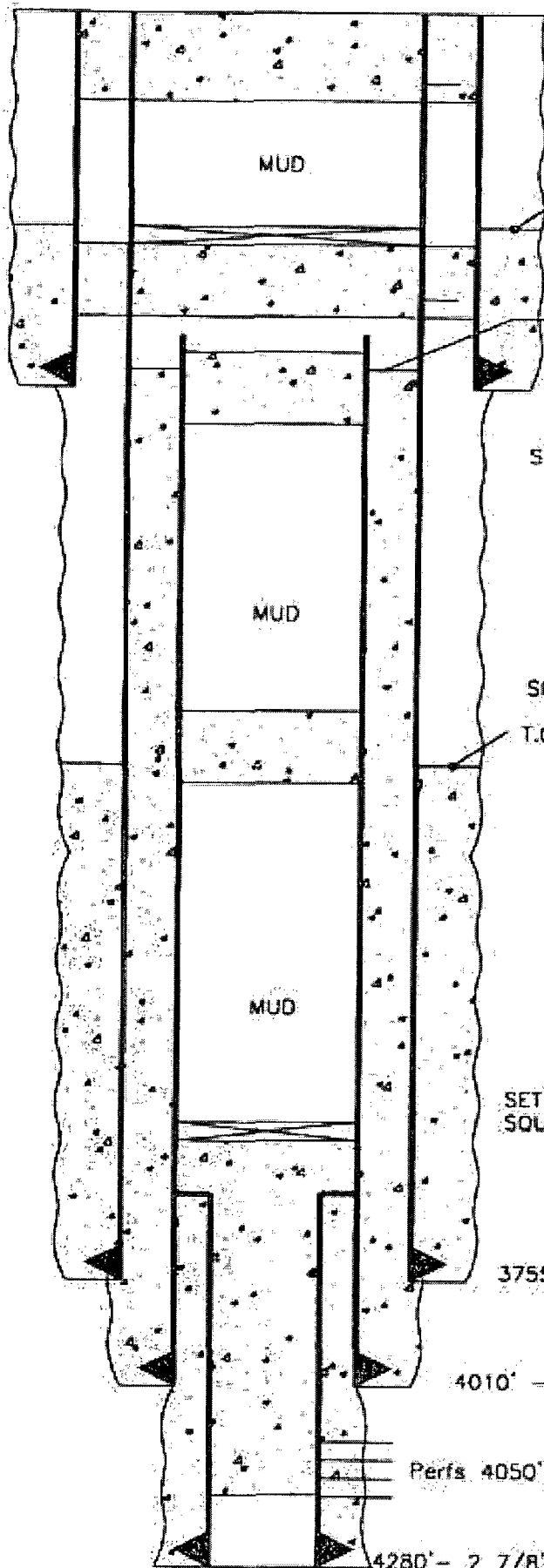
0.1737 14111-1 10-2-50 10-2-50



Elev. = 3906' GL +10' KB

4/20/00

MCA 232



CIRCULATE 80 SXS CEMENT THRU PERFS AT 300'

PERFORATE THE 7" CASING AT 300'

T.O.C. @ 950' (Calculated)

SET A CEMENT RETAINER AT 980'

SQUEEZE 35 SXS CEMENT THRU PERFS AT 1080'

PERFORATE THE 7" CASING AT 1080'

CUT AND PULL 4 1/2" CASING AT 1090'

T.O.C. @ 1100'

1124' - 8 5/8" Casing. Cemented w/50 sxs.

SPOT 25 SXS CEMENT 1100'-1460'

SPOT 25 SXS CEMENT 2190'-2550'

T.O.C. @ 2500' (Calculated)

SET A CEMENT RETAINER AT 3500'

SQUEEZE 25 SXS CEMENT THRU RETAINER

3755' - 7" Casing. Cemented w/170 sxs.

4010' - 4 1/2", 9.5# Casing. Cemented w/300 sxs.

Perfs 4050'-4210'

4280' - 2 7/8" Fiberglass liner (3550'-4280')  
Cemented w/200 sxs

T.D.=4330'

CONOCO, INC.

M.C.A. Unit #232

1880' FNL & 1980' FWL

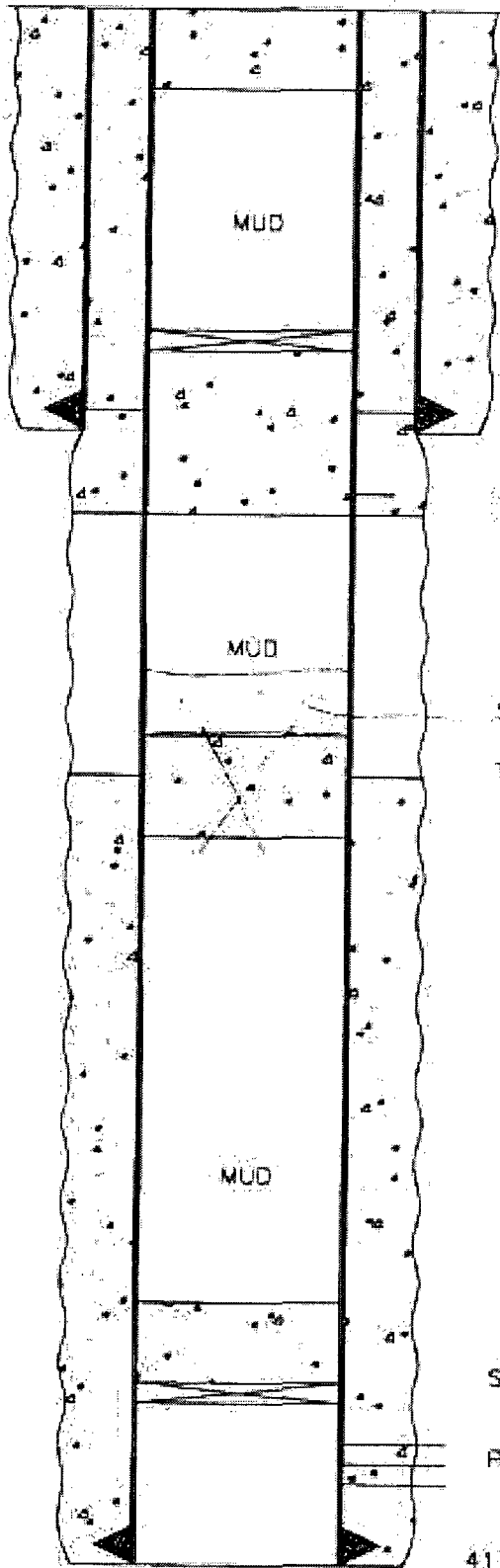
Sec. 33, T-17S, R-32E

Lea County, NM

Elev. = 3977' GR

3/29/00

MCA 280



SPOT 10 SXS CEMENT SURFACE PLUG

Squeeze cemented 5 1/2" x 8 5/8" annulus with 100 sxs cement

SET A CEMENT RETAINER AT 850'  
SQUEEZE 30 SXS CEMENT THRU RETAINER

905' - 8 5/8" Casing. Cemented w/450 sxs. Circulated

PERFORATE THE 5 1/2" CSG. AT 955'

SPOT 25 SXS CEMENT 2000'-2250'

T.O.C. @ 2680' (Temp. Survey)

SET A C.I.B.P. AT 3750' W/35' CEMENT ON TOP

Perfs 3810'-4080'

4175' - 5 1/2" 14#, Casing. Cemented w/300 sxs

T.D. @ 4175'

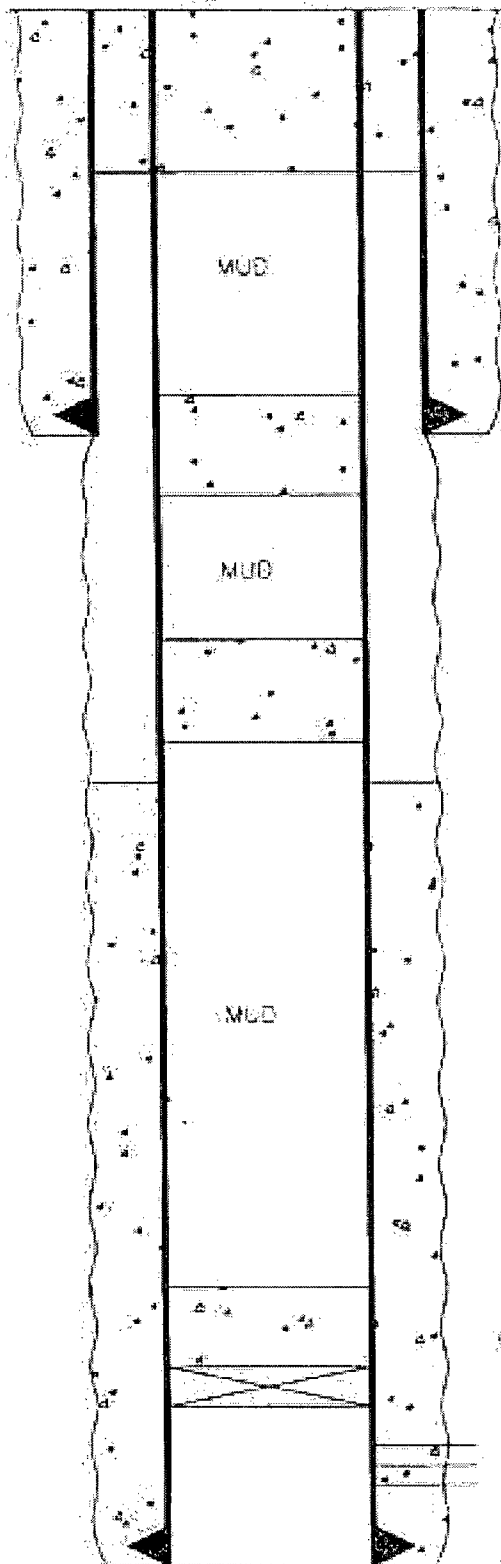
|                       |
|-----------------------|
| CONOCO, INC.          |
| M.C.A. Unit #280      |
| 2565' FNL & 1345' FEL |
| Sec. 28, T-17S, R-32E |
| Lea County, NM        |

Elev. = 4027'

7/22/96

MCA 292

PERF RATE 5 1/2" @ 350'. CIRCULATE CEMENT TO SURFACE



915' - B. 5/8" Casing Cemented w/475 sxs.

SPOT 25' SXS CEMENT 750' - 1000'

MUD

SPOT 25' SXS CEMENT 2200' - 2450'

T.O.C. @ 2675' (Temp. Survey)

MUD

C.B.P. @ 3750' w/10' SXS CEMENT ON TOP

Paris 3350' - 4161'

4200' - 5 1/2" 14# Casing Cemented w/300 sxs

T.D. @ 4200'

CONOCO, INC.

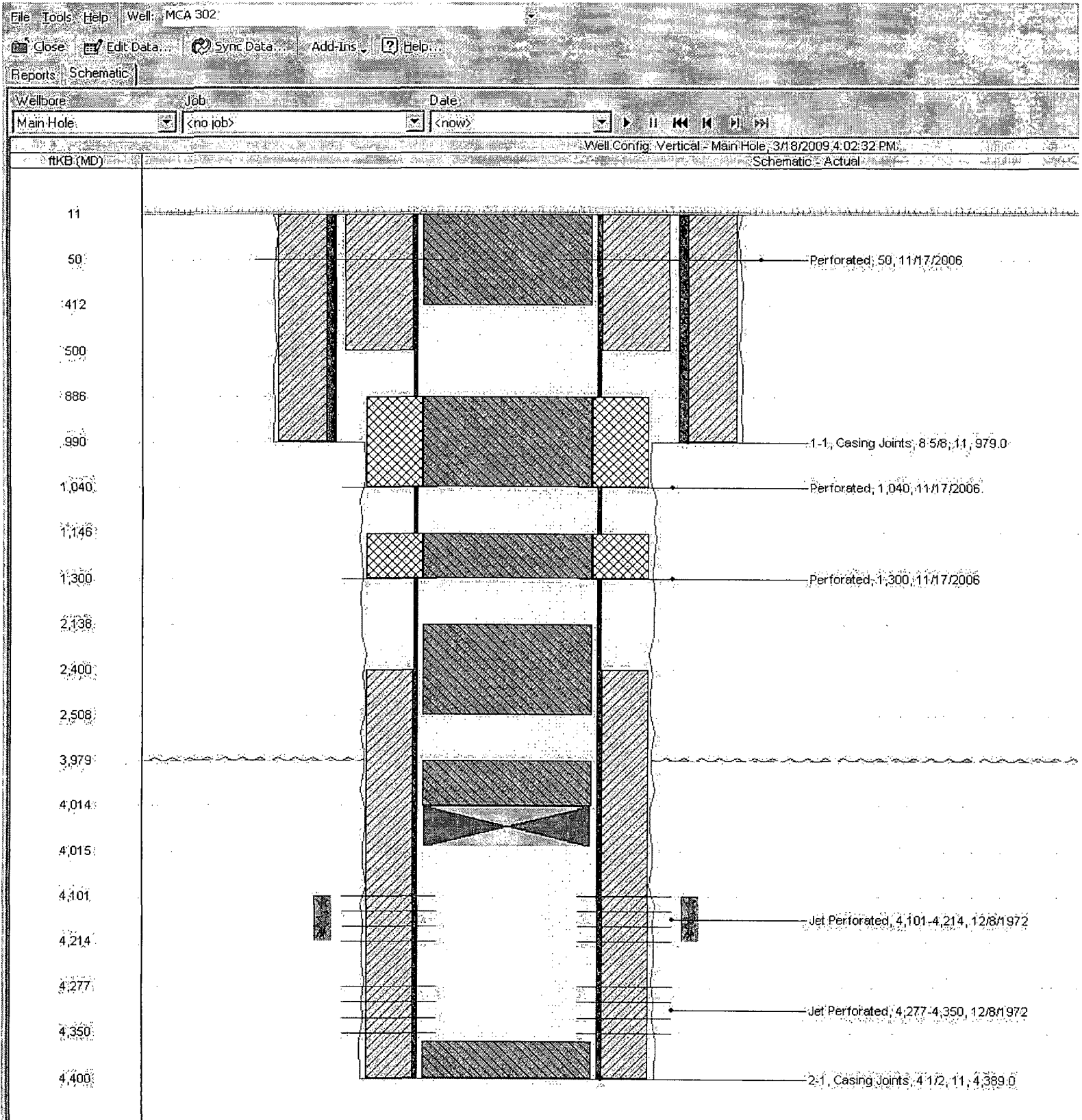
M.C.A. Unit #292

1295' ENL. & FWL

Sec. 27, T-17S, R-32E

Lea County, NV

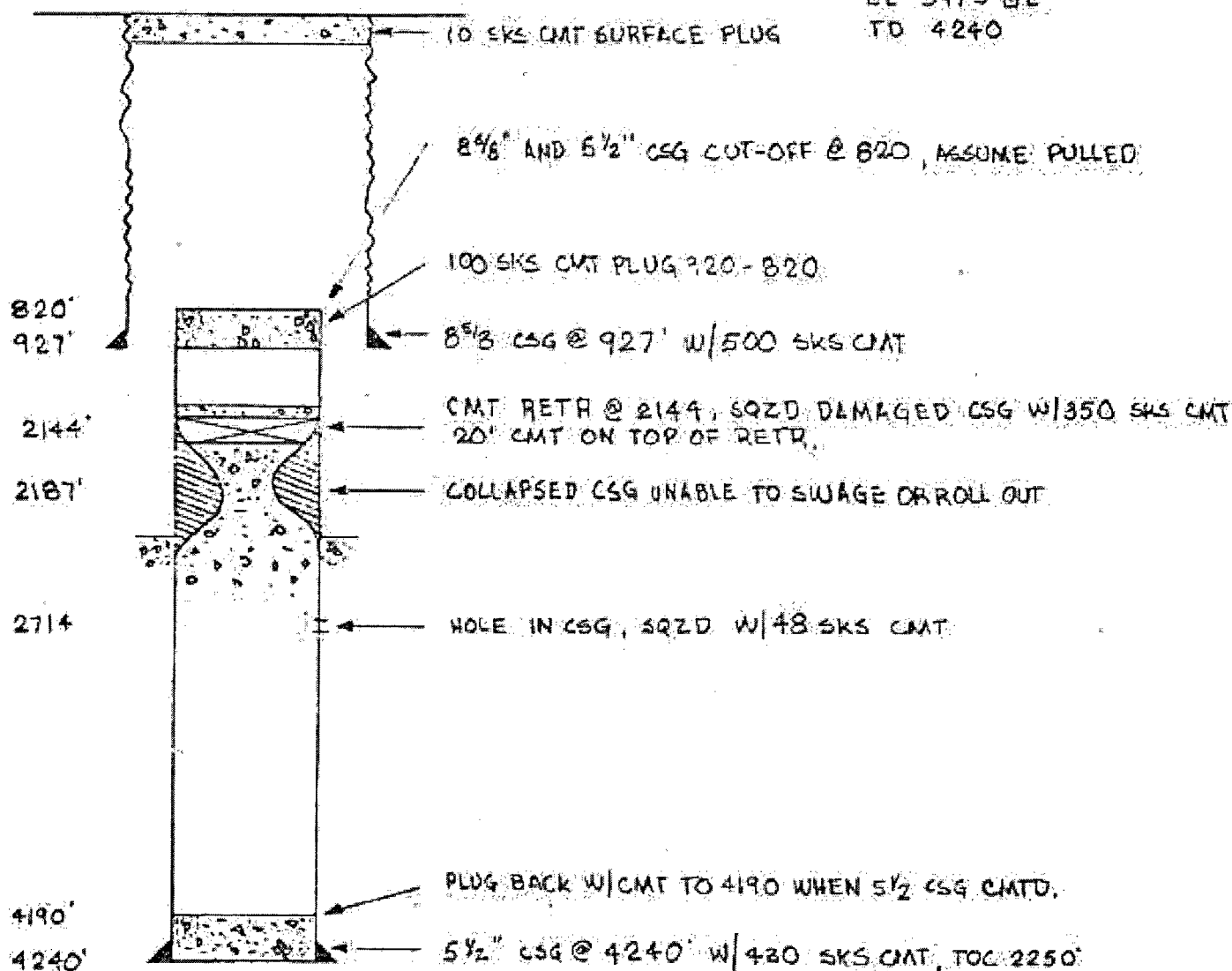
MCA 302



MCA 342  
1225 FNL & 1295 FWL  
SEC. 26, T17S, R32E

PLUGGED AND  
ABANDONED 12/20/76

SPUD 7/26/73  
EL 3975 GL  
TD 4240



#### PAST HISTORY

1976 - CSG LEAK @ 2714, SQZD W/48 SKS CMT. DRILLED OUT  
FOUND BEND IN CSG @ 2187-2193, TBG WAS CONK SCREWING UNABLE  
TO CORRECT.

12/21/76 - P&A: SET CMT RETR @ 2144 SQZD CSG W/350 SKS CMT, PERF @ 918-920 W/  
2.5SPF, SQZD W/100 SKS CMT, TOC 820'. CUT-OFF 8 5/8 AND 5 1/2, SALVAGED  
WELLHEAD. SPOTTED 10 SKS CMT SURFACE PLUG.

MCA NO. 350

10 sxs Surface Plug

10 ppq  
brine

820'

Sqzd @ 723' w/ 225 sxs

Sqzd @ 800' w/ 425 sxs

8 5/8", 20# @ 920' w/ 510 sxs Circ.

Spot Plug 25 sxs 1020' - 820'

1020'

Sqzd @ 1775' w/ 200 sxs

10 ppq  
brine

T.O.C @ 2500' Temp Sur.

C.I.B.P. @ 3976' w/ 5 sxs cement

Perfs 4026' - 4192'

5 1/2", 14# @ 4350' w/ 325 sxs

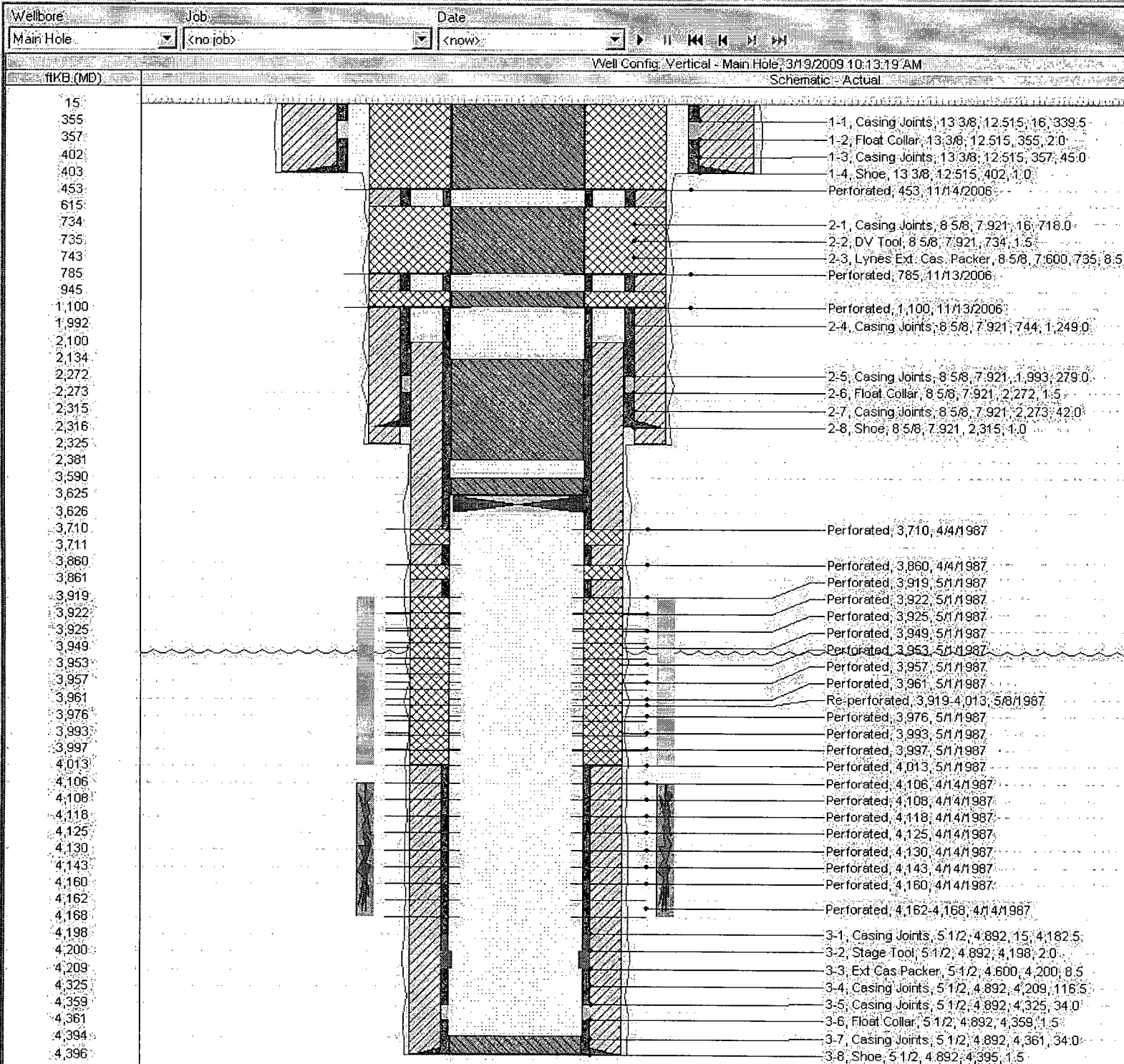
TD 4350'

# MCA 370

File Tools Help Well: MCA 370

Close Edit Data... Sync Data... Add-Ins Help...

Reports Schematic



MCA NO. 371

10 sxs Surface Plug

Spot 25 sxs 1175' - 1050'

16", 65#, H-40 @ 1065' Cmt w/ 910 sxs  
Circ.

Spot 25 sxs 2300' - 2175'

11 3/4", 47#, K-55 @ 2196' Cmt. w/ 1275 sxs  
Circ.

Cement Retainer @ 3187'

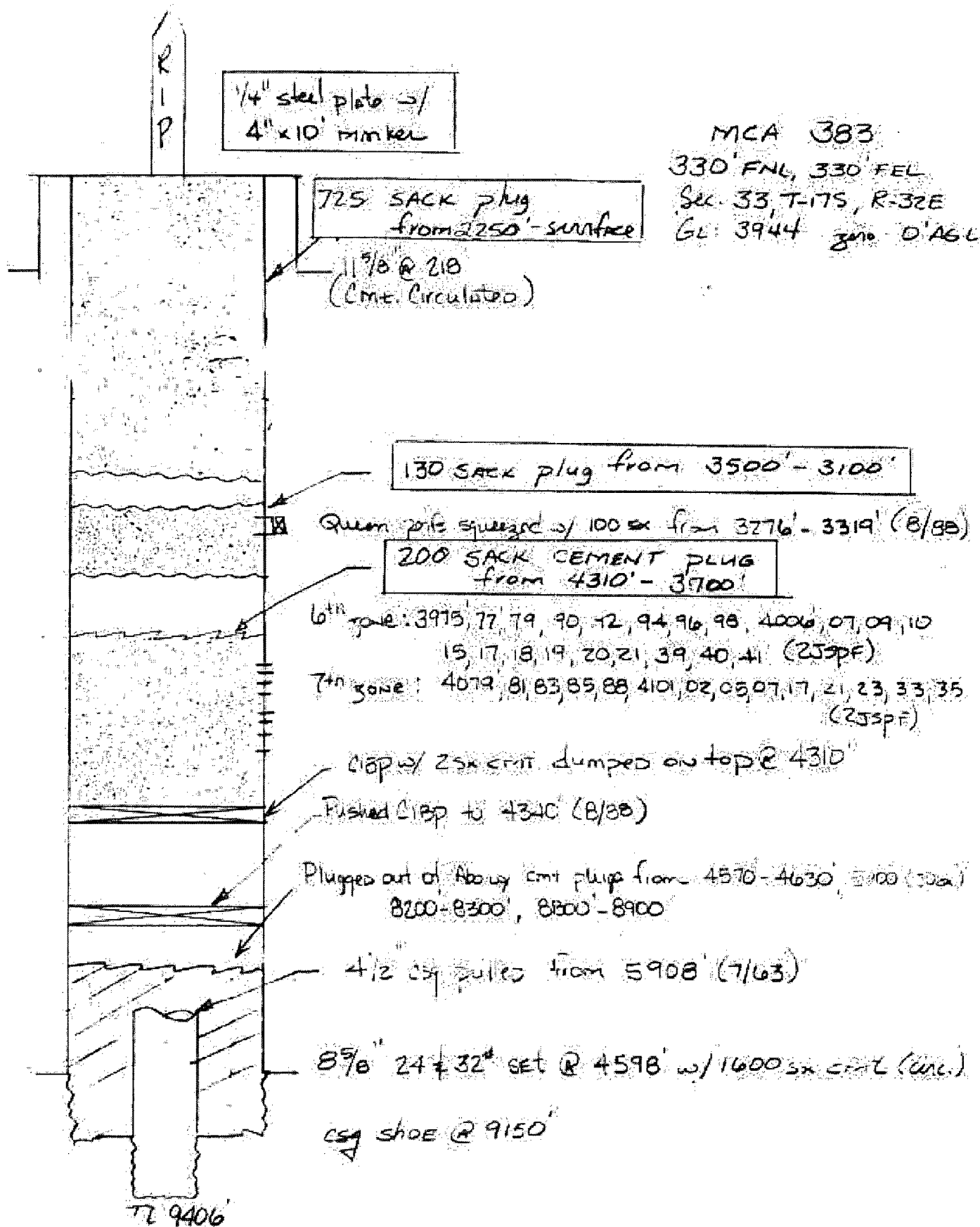
Sqz'd w/ 200 sxs

Collapsed Casing @ 3429'

Perfs 3913' - 4011'

7", 26#, K-55 @ 4250' cmt w/ 2550 sxs  
Circulated

TD 4250'



# MCA 385

File Tools Help Well: MCA 385

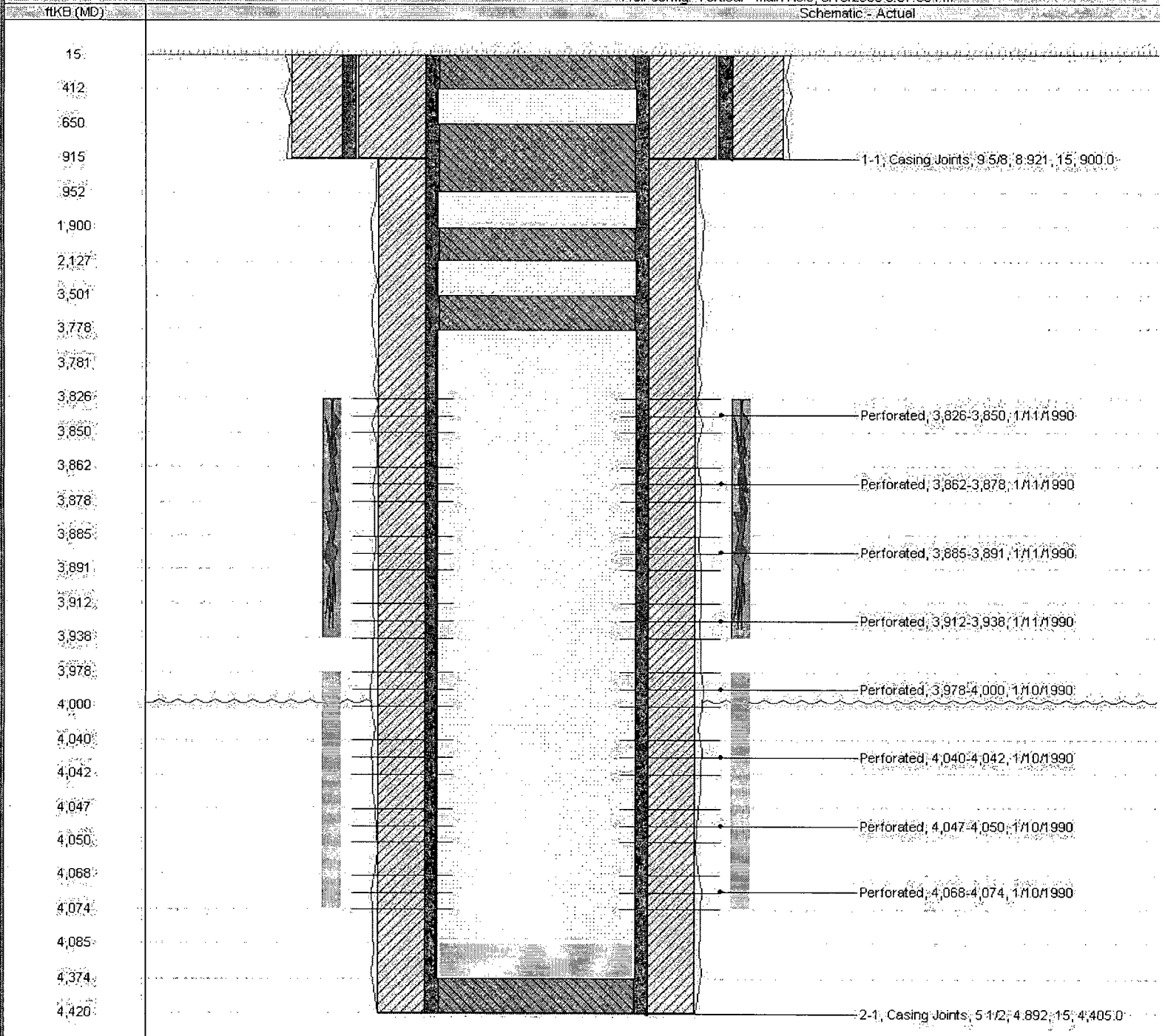
Close Edit Data... Sync Data... Add-Ins Help

Reports Schematic

Wellbore: Main Hole Job: <no job> Date: <now>

Well Config: Vertical - Main Hole 3/18/2009 3:57:05 PM

Schematic - Actual



**WELLBORE DIAGRAM**  
**BAISH - FEDERAL B #2**

20 sx @ surface

13-3/8"  
TOC @ SURFACE  
450 SX CEMENT  
CIRCULATE

25 sx @ 185'

8-5/8" @ 4660'  
2090 sx cement

Lease and Well No.:  
Location:

BAISH FEDERAL B #2  
Sec. 28, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-21951  
PA'D

shot @ 400 and 310'

25 sx @ 4660'

40 sx @ 5250'

25 sx @ 7005'

squeeze holes @ 8162, 8010, 7500, and 7212'

Perforations  
9780-9800'

20 sx @ 9870'

5-1/2" @ 10310'  
670 sx cement

50 sx @ 11550-11450'

50 sx @ 12250-12150'

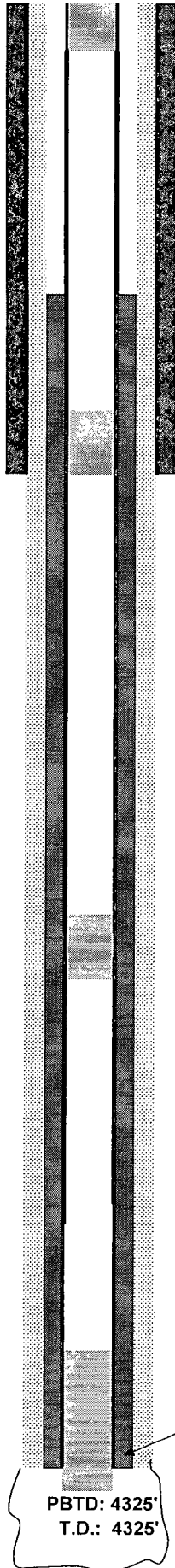
T.D.: 13735'

# WELLBORE DIAGRAM

leamex #3

2

1



11" Hole  
8-5/8" @ 1300'  
TOC @ surface  
circulate  
600 sx cmt.

TOC Plug surface  
10 sxs

Bottom @20' Lease and Well No.:  
Location:

Leamex #3  
Sec. 19, T17S-R33E

County/State:  
Field:  
Spud Date:  
API Number:  
Status:

Lea County, New Mexico  
Maljamar  
10/13/1943  
30-025-01474  
PA'd

*Leamex Battery 2 No 3*

Cement plug 1140-1190'  
15 sxs

## Stimulation History

| DATE    | INTERVAL  | TYPE      | Gals    |
|---------|-----------|-----------|---------|
| 1/20/44 | 4304-4308 | Dowell XX | 500     |
| 1/24/44 | 4200-4325 | S.N.G     | 200 qts |

Cement plug 2031-2159  
35 sxs

X

TOC Plug @ 3980'  
50 sxs

7-7/8" Hole  
5-1/2" @ 3995'  
TOC @ 2008'  
estimate  
250 sx cmt

PBTD: 4325'  
T.D.: 4325'

# WELLBORE DIAGRAM

## MCA UNIT #85

Lease and Well No.:  
Location:

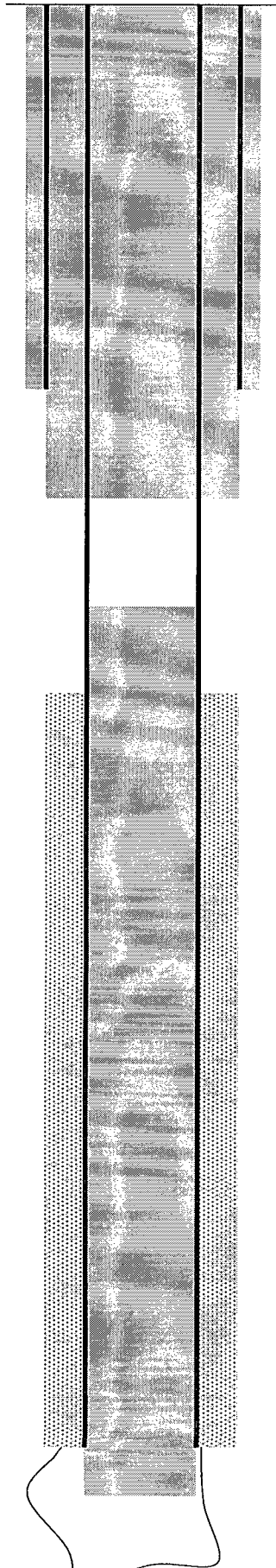
MCA UNIT #85  
Sec. 22, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00640  
PA'D



12-1/2" @ 20'  
TOC @ surface  
circulate  
20 sx cement

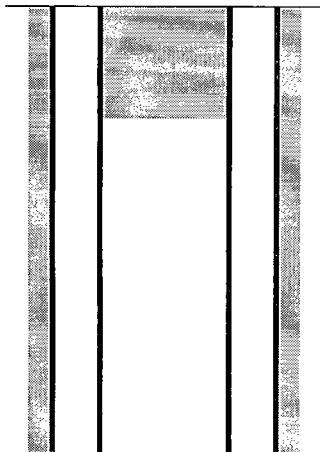
236 sx from 1512' to surface

200 sx TOC @ 3002'

7" @ 3554'  
TOC 2600'  
400 sx cement

**WELLBORE DIAGRAM**  
**MCA UNIT #148**

15 sx from 150' to surface



Lease and Well No.:  
Location:

MCA UNIT #148  
Sec. 27, T17S-R32E

County/State:  
Field:

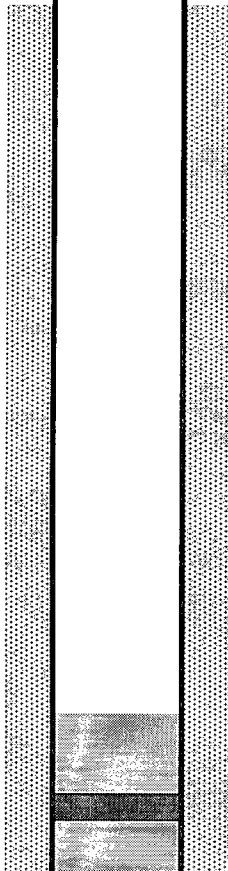
Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00722  
PA'D

12-1/2" @ 20'  
TOC @ surface  
circulate  
23 sx cement

25 sx @ 1050'



25 sx cement 3314-3495'  
retainer @ 3495'  
175 sx cement below retainer

5-1/2" @ 3543'  
TOC @ 2500'  
250 sx cement

T.D.: 4140'

**WELLBORE DIAGRAM**  
**MCA UNIT #187**

Lease and Well No.:  
Location:

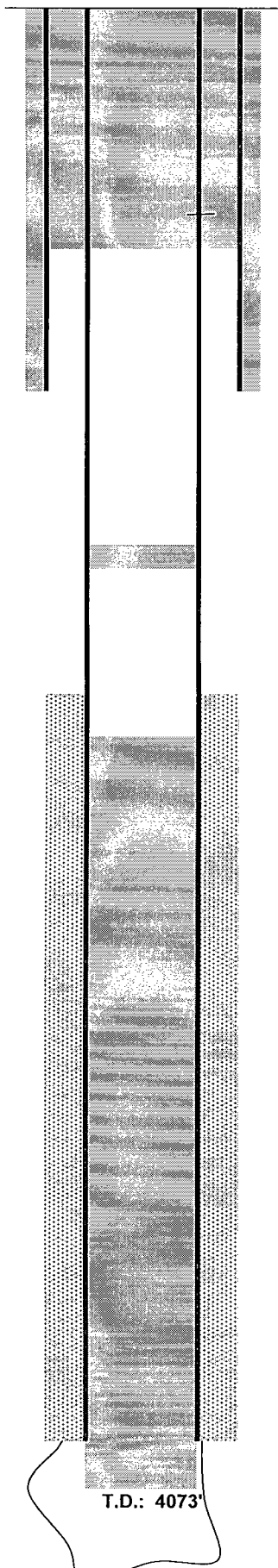
MCA UNIT #187  
Sec. 26, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00704  
PA'D



75 sx squeezed through 150' to surface

21 sx from 1000-800'

225 sx cement @ 2054'

5-1/2" @ 3559'  
TOC @ 2000'  
250 sx cement

T.D.: 4073'

**WELLBORE DIAGRAM**  
**MCA UNIT #203**

Lease and Well No.:  
Location:

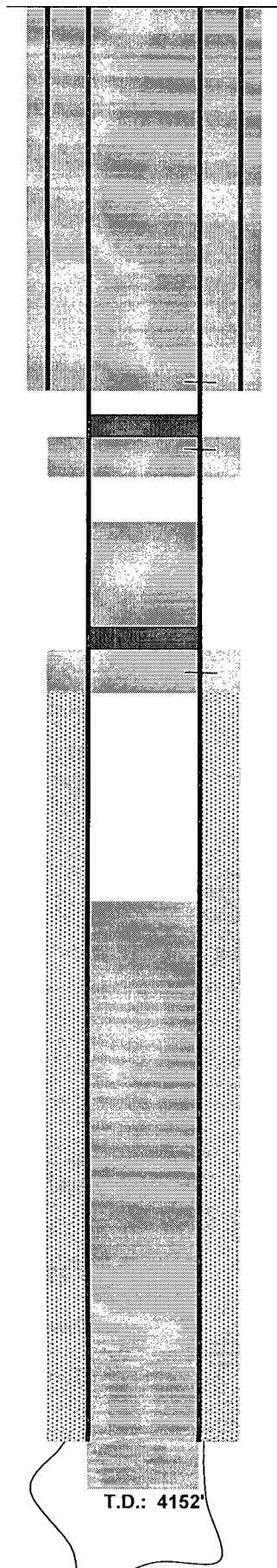
MCA UNIT #203  
Sec. 27, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00725  
PA'D



8-5/8" @ 249'  
TOC @ surface  
circulate  
50 sx cement

squeezed 115 sx from 250' to surface

retainer set @ 693'  
25 sx squeezed

25 sx 861-2140'

retainer at 2140'  
75 sx squeezed

210 sx cement from 2688-4152'

5-1/2" @ 3522'  
TOC @ 2200'  
250 sx cement

T.D.: 4152'

# WELLBORE DIAGRAM

## MCA UNIT #205

25 sx from 500 to surface

8-5/8" @1123  
50 SX CEMENT  
CIRCULATE  
TO SURFACE

Lease and Well No.:  
Location:

MCA UNIT #205  
Sec. 27, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

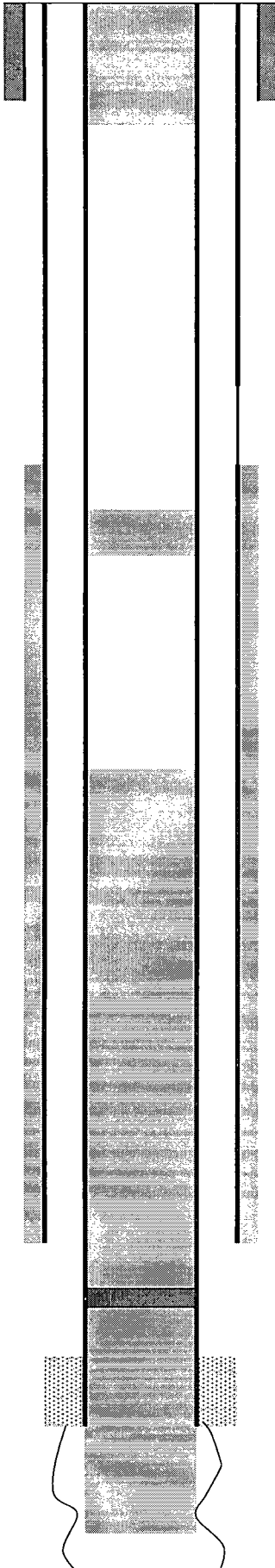
30-025-00727  
PA'D

25 sx from 2400-1900'

5-1/2" @ 3510'  
250 sx cement  
TOC @ 1340'

25 sx on top retainer to 3225'  
retainer @ 3603'  
40 sx cement under retainer

4-1/2" @ 4194'  
55 sx cement  
TOC @ 3910'



**WELLBORE DIAGRAM**  
**MCA UNIT 209**

5 SX FROM 60' TO SURFACE

13-1/2" @29  
14 SX CEMENT  
CIRCULATE  
TO SURFACE

Lease and Well No.:  
Location:

MCA UNIT 209  
Sec. 28, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00748  
PA'D

25 SX @ 1060

25 SX @ 2120'-1637'

50 SX SQUEEZED BELOW RETAINER @ 3270'

5-1/2" @ 3559'  
300 sx cement  
TOC @ 1830'

4" @ 4020'  
130 sx cement  
TOC @ surface

T.D.: 4025'

**WELLBORE DIAGRAM**  
**MCA UNIT #221**

Lease and Well No.:  
Location:

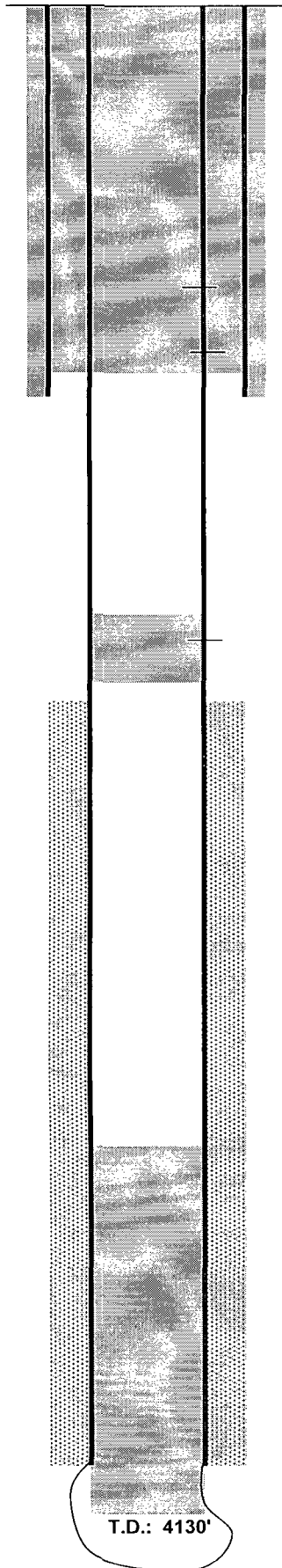
MCA UNIT #221  
Sec. 33, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00799  
PA'D



perfs @ 1100-1103 and 797-800'  
226 sx squeezed to surface

25 sx spotted on top of  
cement retainer @ 2088'  
75 sx cement squeezed through  
squeeze @ 2150

300 sx squeezed below  
cement retainer @ 2710'

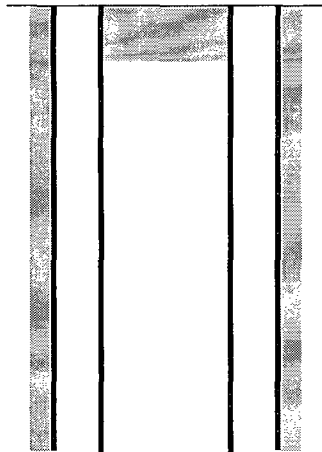
5-1/2" @ 3540'  
TOC @ 3120'  
100 sx cement

T.D.: 4130'

# WELLBORE DIAGRAM

## MCA UNIT #249

10 sx 50 to surface



Lease and Well No.:

MCA UNIT #249

Location:

Sec. 26, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

API Number:

30-025-00708

Status:

PA'D

8-5/8" @ 31'  
TOC @ surface  
circulate  
13 sx cement

25 sx 1052-720'

35 cement @ 1850-2000'

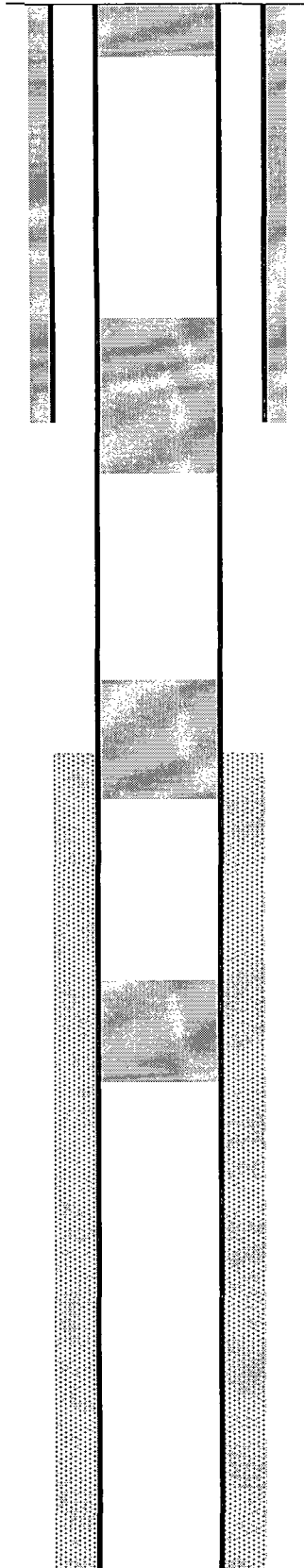
25 sx cement 3904-3405'  
retainer @ 3904'

4-1/2" @ 4101'  
TOC @ 3700'  
750 sx cement

T.D.: 4360'

**WELLBORE DIAGRAM**  
**MCA UNIT #307**

10 sx from 60-surface



Lease and Well No.:  
Location:

MCA UNIT #307  
Sec. 27, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-24058  
PA'D

8-5/8" @ 850'  
TOC @ surface  
circulate  
425 sx cement

25 sx 654-901'

25 sx 1705-1919'

T.O.C. @ 1850 (TEMP SURVEY)

25 sx @ 3167-3404'  
cement retainer @ 3404'

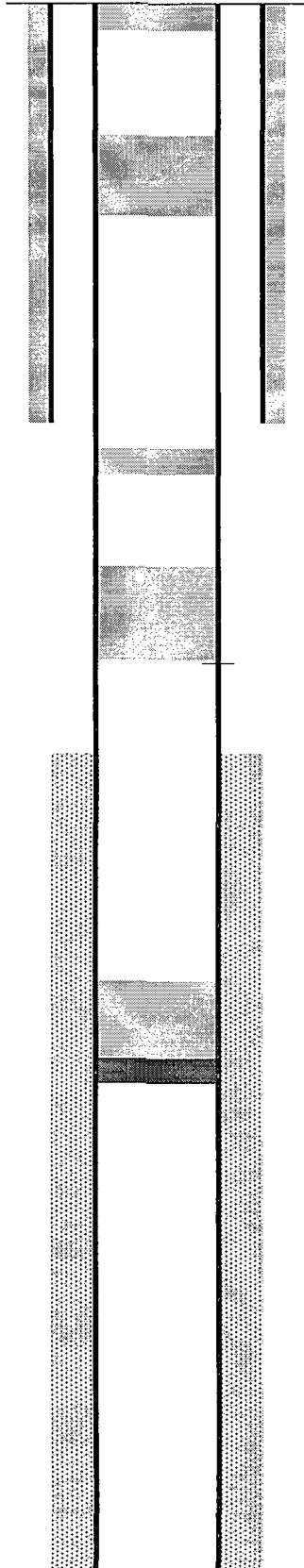
5-1/2" @ 4140'  
TOC @ 1850'  
300 sx cement

T.D.: 4140'

# WELLBORE DIAGRAM

## MCA UNIT #311

10 sx @ 60' to surface



Lease and Well No.:

Location:

County/State:

Field:

API Number:

Status:

MCA UNIT #311

Sec. 26, T17S-R32E

Lea County, New Mexico

Maljamar

30-025-24101

PA'D

25 sx @ 229-470'

8-5/8" @ 1000'  
TOC @ surface  
circulate  
500 sx cement

25 sx @ 1159'

90 sx cement @ 1850-2025'

Perf @ 2025'

T.O.C. @ 2860' (TEMP SURVEY)

25 sx cement @ 3678-3919'

cibp @ 3919'

### Perforations

INTERVAL

3979-4190'

5-1/2" @ 4325'

TOC @ 2860'

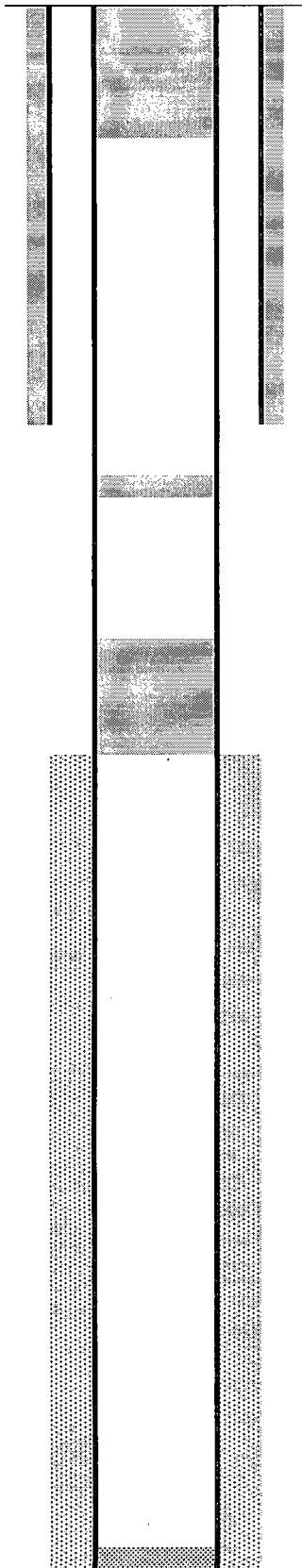
300 sx cement

T.D.: 4325'

# WELLBORE DIAGRAM

## MCA UNIT #315

80 sxs cement from 300' circulated to surface



Lease and Well No.:  
Location:

MCA UNIT #315  
Sec. 27, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-24128  
PA'D

### Perforations

INTERVAL

3962-4190 GRAYBURG SAN ANDRES

# WELLBORE DIAGRAM

## MCA UNIT #336

Squeeze holes @ 250', 300', and 350'  
squeezed with 150 sxs

Lease and Well No.:  
Location:

MCA UNIT #336  
Sec. 23, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-24370  
PA'D

8-5/8" @ 904'  
TOC @ surface  
circulate  
460 sx cement

Squeeze holes @ 800'

TOC @ 1195'  
5-1/2" Cement retainer @ 1210'  
squeezed with 200 sxs

Squeeze holes @ 2400

T.O.C. @ 2720' (TEMP SURVEY)

Perforations  
INTERVAL

3877-4043'

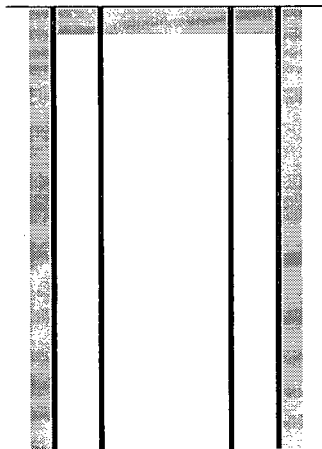
5-1/2" @ 4200'  
TOC @ 2720'  
500 sx cement

T.D.: 4200'

# WELLBORE DIAGRAM

## MILLER #1

5 sx @surface



13-3/8" @ 345'  
TOC @ surface  
circulate  
375 sx cement

Lease and Well No.:  
Location:

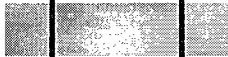
MILLER #1  
Sec. 26, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

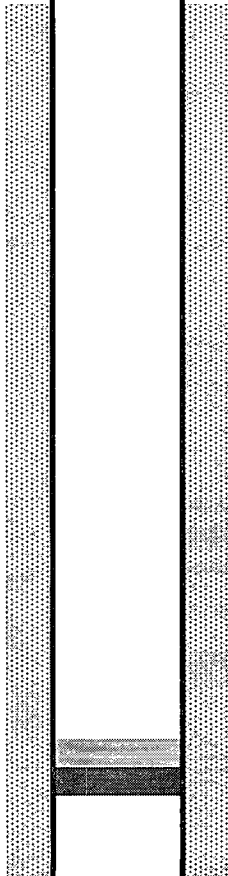
API Number:  
Status:

30-025-00696  
PA'D



20 sx @ 1084'

No record of plugging operations below 2200' as noted in OCD well file.



CIBP @ 4470'

8-5/8" @ 4517'  
TOC 2200'  
950 sx cement  
TEMP SURVEY

# WELLBORE DIAGRAM

## MILLER #3

240 sx from 797' to surface

Lease and Well No.:

MILLER #3

Location:

Sec. 23, T17S-R32E

County/State:

Lea County, New Mexico

Field:

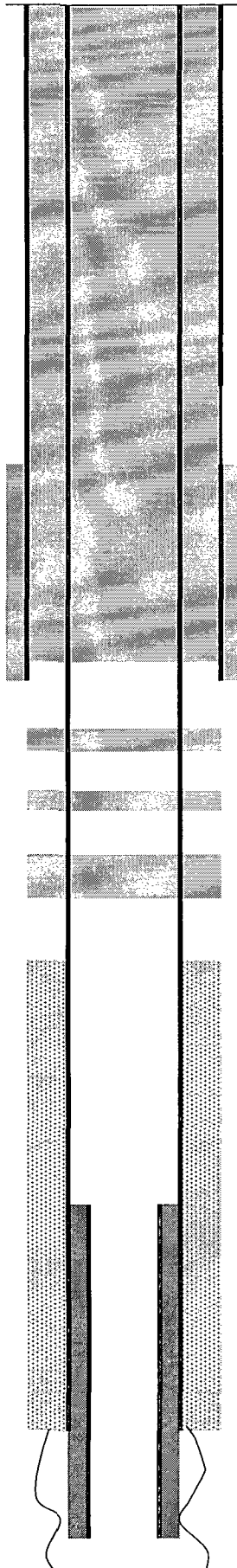
Maljamar

API Number:

30-025-00643

Status:

PA'D



8" @ 880'

125 sx @ 1140'

150 sx @ 1320'

150 sx 1497-1320'

Note: Re-plugged in 1979. No record of original plugging

4" Liner @ 3600'

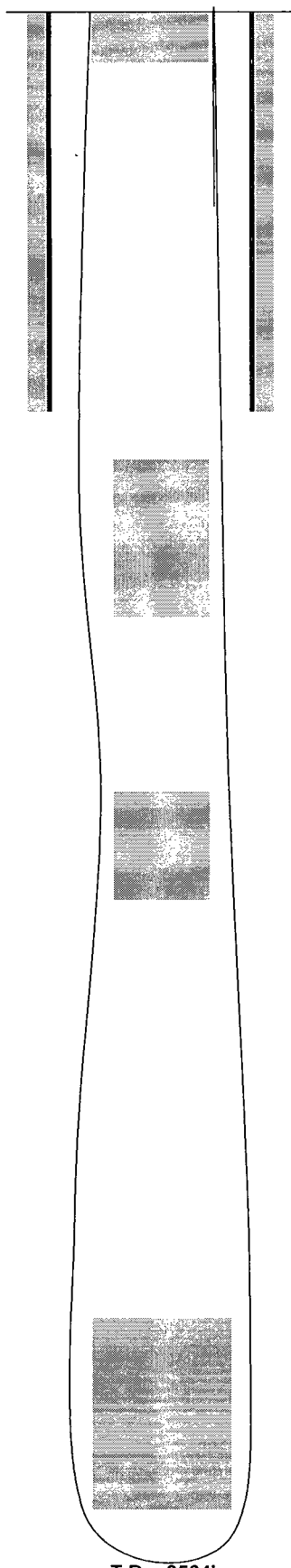
150 sx cement

6-5/8" @ 2540'

100 sx cement

**WELLBORE DIAGRAM**  
**MILLER C #1**

5 SX FROM SURFACE TO 15'



Lease and Well No.:  
Location:

MILLER C #1  
Sec. 35, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00825  
DRY HOLE

8-5/8" @ 87'  
TOC @ surface  
circulate  
100 sx cement

30 SX @ 1110-1208'

20 SX @ 2378-2313'

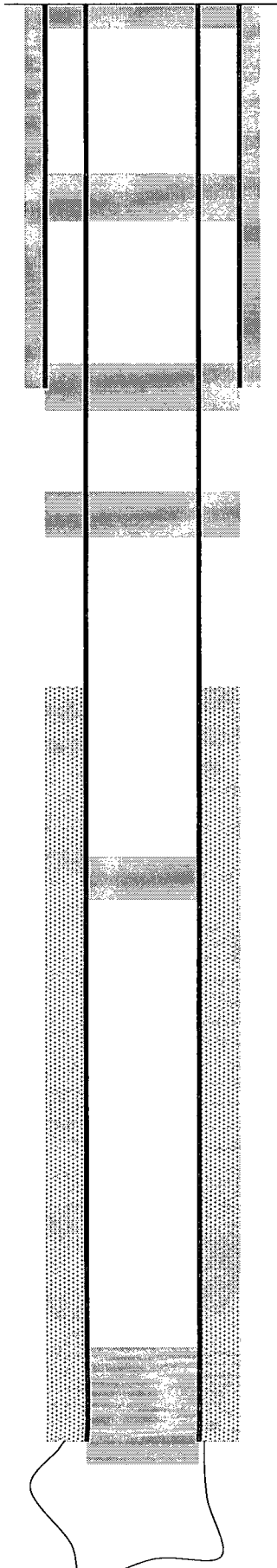
35 SX @ 3450-3564'

T.D.: 3564'

**WELLBORE DIAGRAM**  
**MILLER FEDERAL A #1**

#7

10 SX @27' TO SURFACE



Lease and Well No.:  
Location:

MILLER FEDERAL A #1  
Sec. 23, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00645  
PA'D

30 SX @566-776'

15 SX @ 1175-1123'

10 SX @1494-1440'

15 SX @2600-2508'

12 SX 3564-3601

5-1/2" @ 3590'  
150 sx cement

8-1/4" @ 1159'  
150 sx cement

15 it #1 ~ #7

**WELLBORE DIAGRAM**  
**PEARSALL - FEDERAL A #1**

25 SX SPOTTED AT SURFACE

Lease and Well No.:  
Location:

PEARSALL FEDERAL A #1  
Sec. 33, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00805  
PA'D

8-5/8" @ 1125'  
50 sx cement

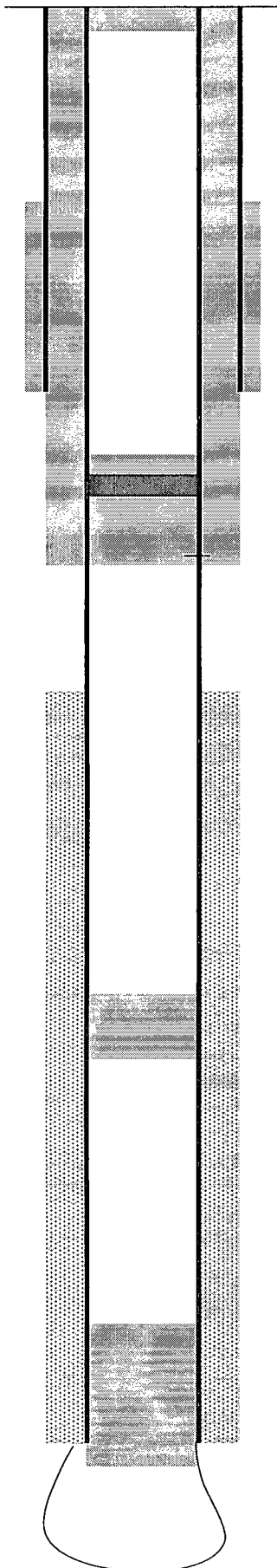
10 SX SPOTTED ON TOP RETAINER  
RETAINER @ 1030  
100 SX CIRC TO SURFACE

SQUEEZE @ 1125

25 SX @ 2320-2219'

25 SX @ 2760-2905'

5-1/2" @ 2875'  
100 sx cement



**WELLBORE DIAGRAM**  
**PEARSALL FEDERAL A #3**

15 SX @ SURFACE

8-1/4" @1123  
50 SX CEMENT

Lease and Well No.:  
Location:

PEARSALL FEDERAL A #3  
Sec. 33, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00804  
PA'D

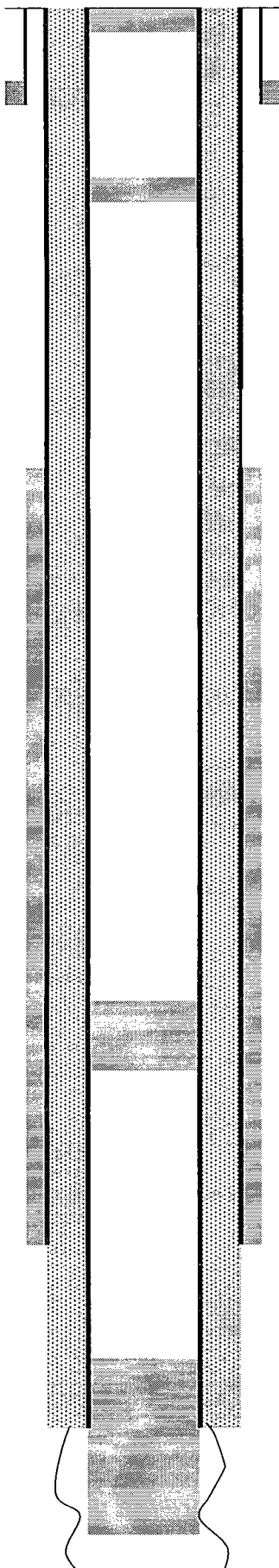
25 SX @1200-924'

25 SX @ 2800'

7" @ 3075'  
100 sx cement  
TOC @ 2200'

30 SX @3213-3341'

5-1/2" @ 3284'  
300 sx cement  
TOC @ surface



**WELLBORE DIAGRAM**  
**QUEEN B #1**

25 sx @ surface

10-3/4" @764'

Lease and Well No.:  
Location:

QUEEN B #1  
Sec. 27, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00731  
PA'D

25 sx on top of  
retainer set @ 1003'  
175 sx pumped through retainer

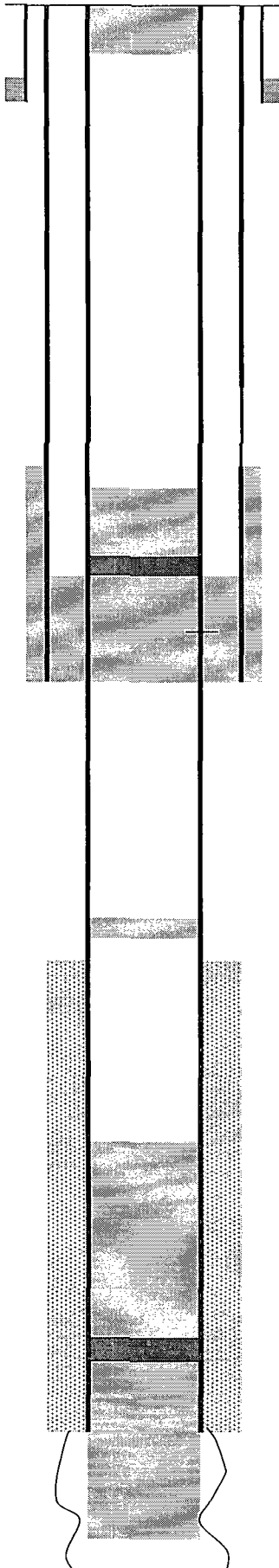
8-5/8" @ 1128'  
100 sx cement

25 sx 2278-2239'

**PERFORATIONS**  
2901-2909'

Spot 25 sx on top (TOC @2859')  
Retainer set @ 3081'  
pump 50 sx below

5-1/2" @ 3240'  
150 sx cement



**WELLBORE DIAGRAM**  
**USA-MILLER #1**

10 sx @ surface

13-3/8" @313'

Lease and Well No.:  
Location:

USA MILLER #1  
Sec. 26, T17S-R32E

County/State:  
Field:

Lea County, New Mexico  
Maljamar

API Number:  
Status:

30-025-00713  
PA'D

25 sx @310'  
25 sx @ 380'

25 sx @ 4250'

8-5/8" @ 4249'  
1820 sx cement

25 sx @5805'

25 SX AT 6580'

4-1/2" @ 8862'  
600 sx cement

