

DATE IN 11.2.10	SUSPENSE	ENGINEER TW.	LOGGED IN 11.2.10	TYPE WFX	PTCLW APP NO. 1030933199
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ConocoPhillips
 2/18/17
 RECEIVED OCD

2010 NOV 2 A 11:23

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]

WFX-879

13 Wells

Lea, Co.

[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 _____

As per
 R-2403
 2150 PSI

[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

✓ per #4729480

[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 D. FISKE
 Print or Type Name

Jalyn D. Fiske
 Signature

REG. SPECIALIST
 Title

10/8/2010
 Date

JALYN.D.FISKE@CONOCOPHILLIPS.COM
 e-mail Address

Warnell, Terry G, EMNRD

From: Fiske, Jalyn N [Jalyn.Fiske@conocophillips.com]
Sent: Thursday, January 13, 2011 12:37 PM
To: Warnell, Terry G, EMNRD
Subject: RE: Injection order extension

Information for the MCA 13 well application...

Total Wells: 200
Total P&A: 63
Total Active: 134
Total TA'd: 3

These two are new drills, so the actual perfs are different from what was originally requested.
MCA 472 Actual Perfs: 3804-4036
MCA 480 Actual Perfs: 3858-4090

Jalyn N. Fiske
Regulatory Specialist
ConocoPhillips Company
432.688.6813
jalyn.fiske@conocophillips.com

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Tuesday, January 11, 2011 2:45 PM
To: Fiske, Jalyn N
Subject: RE: Injection order extension

Hi Jalyn,

I'm looking now at your MCA 13 well application
Please provide me with similar data as below for the MCA Unit

Also please check and verify the perf depths on MCA Wells 472 and 480

Thank you

From: Fiske, Jalyn N [mailto:Jalyn.Fiske@conocophillips.com]
Sent: Tuesday, January 11, 2011 7:39 AM
To: Warnell, Terry G, EMNRD
Subject: RE: Injection order extension

See attached, there are three news tabs with Totals - let me know if you need anything else.

Total Wells: 297
Total P&A: 60
Total Active: 219
Total TA'd: 18

Jalyn N. Fiske
Regulatory Specialist
ConocoPhillips Company
432.688.6813
jalyn.fiske@conocophillips.com

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Friday, January 07, 2011 1:53 PM
To: Fiske, Jalyn N
Subject: RE: Injection order extension

Thanks
Heck of a spread sheet
Wish I was Excel savvy enough to navigate through it
Maybe you or one of your people could help put together something that would give me the wells that are in the ½ mile AOR
The original data you sent in for the 11 well application has 28 spreadsheet pages with 497 wells listed. I'm having a great deal of trouble figuring out the number of wells, well status and the well names within the ½ mile AOR (Darn I get a headache just thinking about it)
Thanks again

From: Fiske, Jalyn N [mailto:Jalyn.Fiske@conocophillips.com]
Sent: Friday, January 07, 2011 12:06 PM
To: Warnell, Terry G, EMNRD
Subject: RE: Injection order extension

Oh yes, yes, I must've got bogged down...here's the excel spreadsheet for the 11 EVGSAU application packet....and what of the 13 MCA application?

Jalyn N. Fiske
Regulatory Specialist
ConocoPhillips Company
432.688.6813
jalyn.fiske@conocophillips.com

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Friday, January 07, 2011 11:19 AM
To: Fiske, Jalyn N
Subject: RE: Injection order extension

Good deal on the extension

As for the two WFX's
We spoke several months ago (about Thanksgiving) that I couldn't determine the number of wells in the AOR etc.
And you were going to send me the excel spreadsheet data file?

From: Fiske, Jalyn N [mailto:Jalyn.Fiske@conocophillips.com]
Sent: Friday, January 07, 2011 9:11 AM
To: Warnell, Terry G, EMNRD
Subject: RE: Injection order extension

Terry, I am getting the information for the extension letter. But I was also wondering about the status of two injection applications that were submitted in September/October timeframe - for 11 EVGSAU and another for 13 MCA conversions? I checked earlier this week and didn't see any orders for them. Thank you.

Jalyn N. Fiske
Regulatory Specialist
ConocoPhillips Company
432.688.6813
jalyn.fiske@conocophillips.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Thursday, January 06, 2011 5:58 PM
To: Fiske, Jalyn N; Warnell, Terry G, EMNRD
Cc: Ezeanyim, Richard, EMNRD
Subject: RE: Injection order extension

Jalyn:
Forwarding to Terry, he does these types of applications.

I will give you my feedback, and Terry may add to it or correct some things:
Normally the applicant that wants an extension of an injection or disposal permit, writes a letter to the Division asking for an extension of a specific time period and states the reasons why an extension is needed. We also ask you make a statement as to whether the Area of Review has changed ownership and also whether there are any new wells that have been drilled within the Area of Review that would endanger any ground water or allow vertical movement of injection fluids.

Please send your request in BEFORE the deadline runs out, we are instructed to not do retroactive approvals. If the deadline runs out before you mail a request letter, you must send in a new C-108 application.

Happy New Year,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

From: Fiske, Jalyn N [mailto:Jalyn.Fiske@conocophillips.com]
Sent: Thursday, January 06, 2011 8:17 AM
To: Jones, William V., EMNRD
Subject: Injection order extension

PMX-255 was granted on February 12, 2010, to convert 3 Vacuum Abo wells to injectors. The conversions have been delayed, and won't be performed until later this year. What information is required to request a year extension on the order?

Thanks,

Jalyn N. Fiske
Regulatory Specialist
ConocoPhillips Company
432.688.6813
jalyn.fiske@conocophillips.com

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE : X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No

II. OPERATOR: CONOCOPHILLIPS COMPANY

ADDRESS : 3300 N. "A" ST. - 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 processed for injection.
Additional sheets may be attached if necessary. EXHIBIT #1

IV. Is this an expansion of an existing project? X Yes No
If yes, give the Division order number authorizing the project R-2403 & R-2403-B

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. 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. EXHIBIT #3 & #4

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 geological data on the injection zone including appropriate lithologic detail, geological 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.

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.

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 source of drinking water.

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: Jalyn N. Fiske

DATE: 10/8/2010

E-MAIL ADDRESS: JALYN.FISKE@CONOCOPHILLIPS.COM

* If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal:

- 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)		

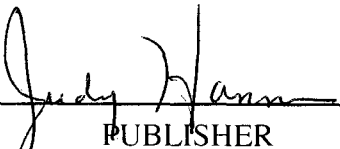
Affidavit of Publication

State of New Mexico,
County of Lea.

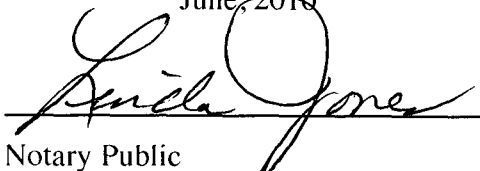
I, JUDY HANNA
PUBLISHER

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

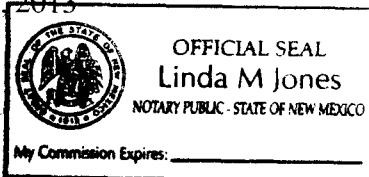
of 1 issue(s).
Beginning with the issue dated
June 23, 2010
and ending with the issue dated
June 23, 2010


PUBLISHER

Sworn and subscribed to before me
this 30th day of
June, 2010


Notary Public

My commission expires
June 16, 2013
(Seal)



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

LEGAL	LEGAL	LEGAL
LEGAL NOTICE JUNE 23, 2010 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 eleven wells in the <u>MCA Unit</u>, in the <u>Maljamar</u>, <u>Grayburg-San Andres Pool</u>. All wells are located in Township 17S, Range 32E, <u>Lea County, NM</u>: MCA 393, Sec 29, 1892' FNL & 1' FEL, injection interval 3770' - 4173'; MCA 405, Sec 34, 160' FNL & 1936' FWL, injection interval 4033' - 4272'; MCA 453, Sec 26, 1330' FNL & 610' FWL, injection interval 3906' - 4123'; MCA 458, Sec 26, 610' FSL & 10' FWL, injection interval 4095' - 4277'; MCA 465, Sec 26, 2630' FSL & 1805' FWL, injection interval 4016' - 4274'; MCA 481, Sec 28, 1310' FSL & 510' FWL, injection interval 3776' - 4035'; MCA 485, Sec 28, 1860' FSL & 1330' FWL, injection interval 3784' - 3999'; MCA 486, Sec 28, 2580' FSL & 560' FEL, injection interval 3830' - 4051'; MCA 489, Sec 33, 660' FNL & 1110' FEL, injection interval 3914' - 4166'; MCA 491, Sec 33, 510' FNL & 1370' FWL, injection interval 3852' - 4186'; MCA 492, Sec 33, 1330' FNL & 1980' FEL, injection interval 3894' - 4180'. 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. #25936		

2150 PSI $\approx .52$ grad.
4095
x .2
819

49101647

00054375

JALYN FISKE
CONOCOPHILLIPS COMPANY (MIDLAND)
3300 NORTH A STREET
BLDG. 6
MIDLAND, TX 79705

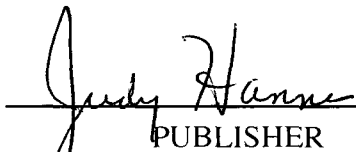
Affidavit of Publication

State of New Mexico,
County of Lea.

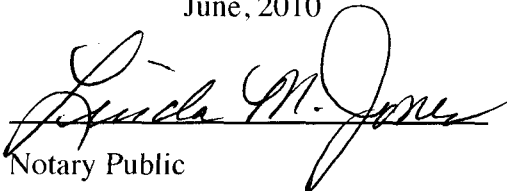
I, JUDY HANNA
PUBLISHER

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

of 1 issue(s).
Beginning with the issue dated
June 29, 2010
and ending with the issue dated
June 29, 2010


PUBLISHER

Sworn and subscribed to before me
this 30th day of
June, 2010


Notary Public

My commission expires
June 16, 2013
(Seal)



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

LEGAL NOTICE JUNE 29, 2010

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 two wells in the MCA Unit, in the Maljamar, Grayburg-San Andres Pool.

All wells are located in Township 17S, Range 32E, Lea County, NM:

MCA 472, Sec 27, 1980' FNL & 160' FWL, injection interval 3505' - 4277';
MCA 480, Sec 28, 1310' FSL & 1995' FEL, injection interval 3543' - 4298';

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
#25947

49101647

00054753

JALYN FISKE
CONOCOPHILLIPS COMPANY (MIDLAND)
3300 NORTH A STREET
BLDG. 6
MIDLAND, TX 79705

Exhibit # 1

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA 393WELL LOCATION: 1093' FWL # 1' FEL

FOOTAGE LOCATION

UNIT LETTER

29

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: _____ Casing Size: 85/8Cemented with: 505 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: _____ Casing Size: 5 1/2"Cemented with: 2025 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4450'Injection Interval3770 feet to 4173

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (IPC)Type of Packer: 5 1/2" 17# HALBURTON-G6 NICKEL PLATEDPacker Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION2. 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/A5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips companyWELL NAME & NUMBER: MCA # 405WELL LOCATION: 160' FNL of 1936' FWL
FOOTAGE LOCATION

UNIT LETTER

34

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: 8 5/8"

Cemented with: _____

900

sx.

or _____

ft³

Top of Cement: _____

SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx.

or _____

ft³

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"

Cemented with: _____

700

sx.

or _____

ft³

Top of Cement: _____

SURFACE

Method Determined: _____

Total Depth: _____

4566'Injection Interval4033'

feet

to 4272'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (IPC)
 Type of Packer: 5 1/2" 17# HALBURTON-66 NICKEL PLATED
 Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITS 2 & 3 INTERJAL
 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 PRODUCTION

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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA # 453WELL LOCATION: 1330' FNL $\frac{1}{4}$ 610' F2LUNIT LETTER 24 SECTION 17S TOWNSHIP 32E RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: _____ Casing Size: 05/8"Cemented with: 570 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: 000 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4407'Injection Interval3906' feet to 4123' ✓

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5 1/2" 17# HALBURTON-66 NICKEL PLATED

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION

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

3. Name of Field or Pool (if applicable): MAJAMAR, GRAYBUES - 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips CompanyWELL NAME & NUMBER: MCA # 458WELL LOCATION: 610' FSL 7 10' FWL
FOOTAGE LOCATION

UNIT LETTER

SECTION

26

TOWNSHIP

17S

RANGE

32EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: 8 5/8"Cemented with: 570 sx. _____ft³Top of Cement: SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____ sx. _____

ft³

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"Cemented with: 261 sx. _____ft³Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4550'Injection Interval4095 feet to 4277 

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5 1/2" 17# HALBURTON-66 NICKEL PLATED

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION

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

3. Name of Field or Pool (if applicable): MALJAMAR, GRAYBORG - 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILIPS COMPANYWELL NAME & NUMBER: MCA # 465WELL LOCATION: 2630' FSL # 1805' F22L

FOOTAGE LOCATION

UNIT LETTER

26

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: _____ Casing Size: 8 5/8"Cemented with: 570 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: _____ Casing Size: 5 1/2"Cemented with: 810 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4480'Injection Interval4016 feet to 4274 4272

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5 1/2" 17# HALBURTON-66 NICKEL PLATED

Packer Setting Depth: ABOVE TOP PERFORATION 3' WITHIN UNITIZED INTERVAL

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 PRODUCTION

2. Name of the Injection Formation: GRAYBUES - SAN ANDEES

3. Name of Field or Pool (if applicable): MAJAMAR, GRAYBUES - SAN ANDEES

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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA 481WELL LOCATION: 1310' FSL 4 510' FDL

FOOTAGE LOCATION

UNIT LETTER

28

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: 8 5/8"Cemented with: 570

sx. _____

or _____ ft³Top of Cement: SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____ ft³

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"Cemented with: 861

sx. _____

or _____ ft³Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4153'Injection Interval3776

feet to

4035 

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (IPC)Type of Packer: 5 1/2" 17# HALBURTON-G6 NICKEL PLATEDPacker Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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

Additional Data1. Is this a new well drilled for injection? _____ Yes ☒ NoIf no, for what purpose was the well originally drilled? OIL PRODUCE2. 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA # 405WELL LOCATION: 1000' FSL @ 1330' F2L

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: _____ Casing Size: 05/8"Cemented with: 570 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: _____ Casing Size: 5 1/2"Cemented with: 061 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4124'Injection Interval3704 feet to 3999 

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (IPC)Type of Packer: 5 1/2" 17# HALBURTON-G6 NICKEL PLATEDPacker Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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

Additional Data

1. Is this a new well drilled for injection? _____

Yes ☐ No ☒If no, for what purpose was the well originally drilled? OIL PRODUCTION2. Name of the Injection Formation: GRAYBURG - SAN ANDRÉS3. Name of Field or Pool (if applicable): MAJAMAR, GRAYBURG - SAN ANDRÉS4. 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA # 486WELL LOCATION: 2500' FSU @ 560' FEL

FOOTAGE LOCATION

UNIT LETTER

28

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: 25/8"Cemented with: 468 sx. _____or _____ ft³Top of Cement: SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____ sx. _____

or _____ ft³

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"Cemented with: 861 sx. _____or _____ ft³Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4206Injection Interval3830

feet

to 4051

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5 1/2" 17# HALBURTON-66 NICKEL PLATED

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERNAL

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 PRODUCTION

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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA # 489WELL LOCATION: 660' FUL # 1110' FEL

FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
		<u>33</u>	<u>17S</u>	<u>32E</u>

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____ Casing Size: 8 5/8"
Cemented with: 570 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____
Cemented with: _____ sx. or _____ ft³
Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: 5 1/2"
Cemented with: 861 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Total Depth: 4334'Injection Interval3914 feet to 4166 

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7# J-55 Lining Material: TK-99 (IPC)Type of Packer: 5 1/2" 17# HALBURTON-G6 NICKEL PLATEDPacker Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION2. 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA 491WELL LOCATION: 510' FNL # 1370' FNLUNIT LETTER 33 SECTION 17S TOWNSHIP 32E RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: _____ Casing Size: 8 5/8"Cemented with: 568 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: _____ Casing Size: 5 1/2"Cemented with: 861 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4338'Injection Interval3852 feet to 4186 

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITS INTERVAL

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 PRODUCTION

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

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

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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA 492WELL LOCATION: 1330' FUL # 1980' FEL

FOOTAGE LOCATION

UNIT LETTER

33

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____

Casing Size: 8 5/8"

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

SURFACE

Method Determined: _____

Total Depth: _____

4373'Injection Interval3294

feet to

4180 ✓

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION

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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA # 472WELL LOCATION: 1980' FVL # 160' FVL

FOOTAGE LOCATION

UNIT LETTER

27

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: 8 5/8"Cemented with: 570

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

Production Casing

Hole Size: _____

Casing Size: 5 1/2"Cemented with: 760

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4100'3804Injection Interval40363505

feet to

4277

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5 1/2" 17# HALBURTON-GL6 NICKEL PLATED

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION

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

3. Name of Field or Pool (if applicable): MAJAMAR, 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: _____

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANY

WELL NAME & NUMBER: MCA # 480

WELL LOCATION: 1310' FSL # 1995' FEL

FOOTAGE LOCATION

UNIT LETTER

28

SECTION

17S

TOWNSHIP

32E

RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____ Casing Size: 8 5/8"

Cemented with: 570 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: 5 1/2"

Cemented with: 760 sx. or _____ ft³

Top of Cement: SURFACE Method Determined: _____

Total Depth: 4176'

3858

Injection Interval

4090

4298

feet to

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

Packer Setting Depth: ABOVE TOP PERFORATION & WITHIN UNITIZED INTERVAL

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 PRODUCTION

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

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

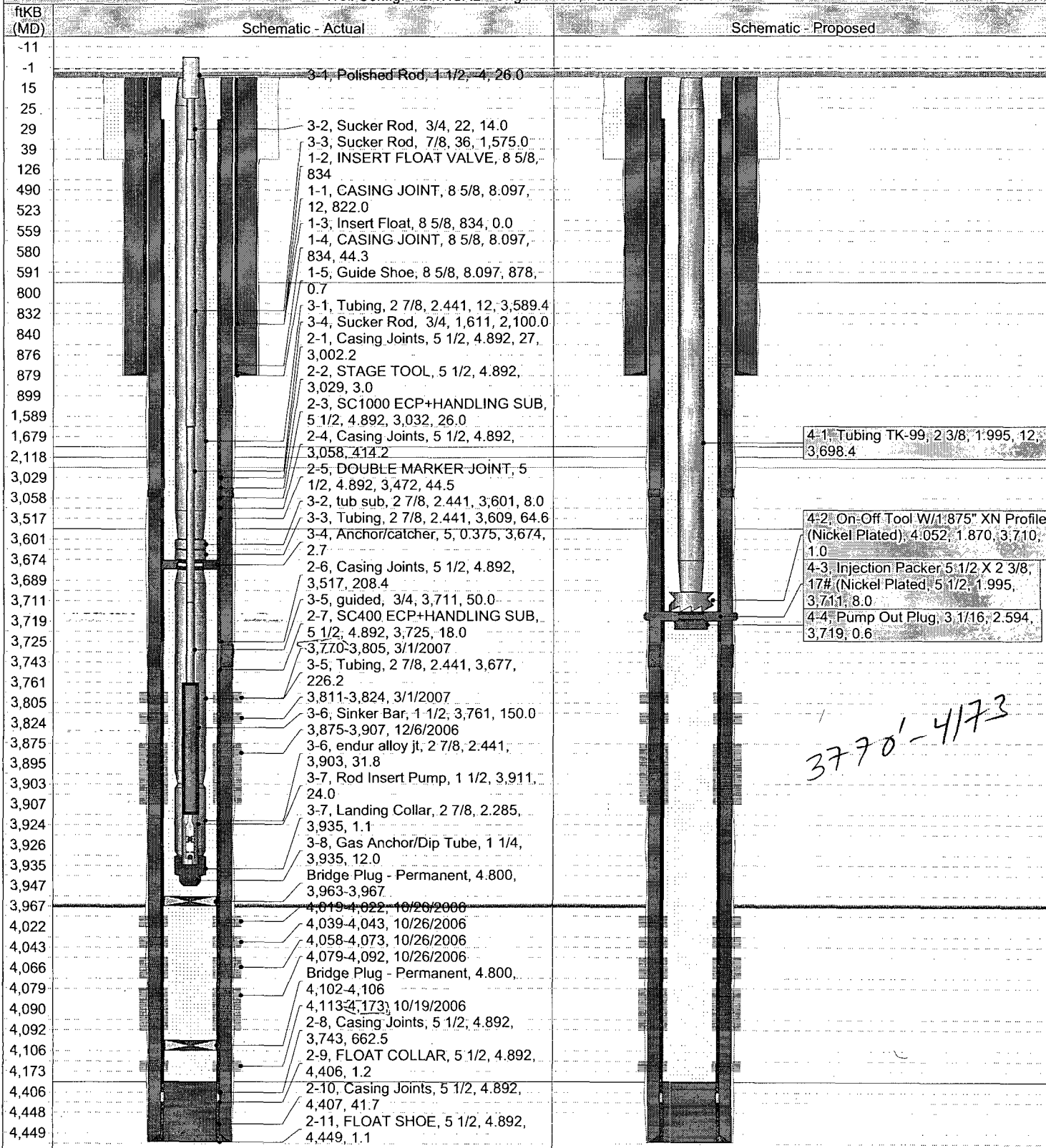
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

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

Most Recent Job

Jobs	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
Job Category COMPLETIONS	INITIAL COMPLETION		2/22/2007	3/14/2007

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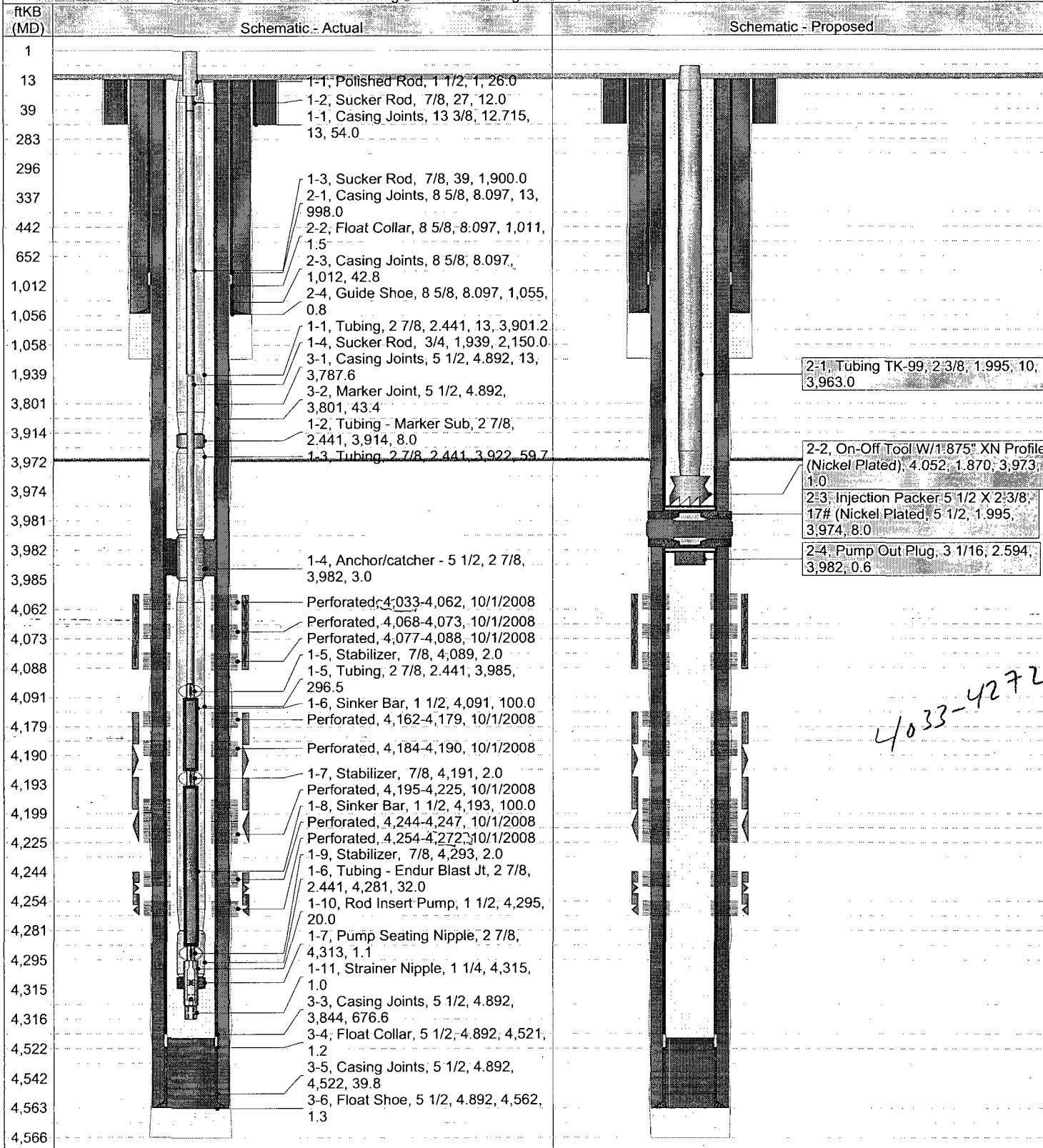


Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
COMPLETIONS	INITIAL COMPLETION		9/22/2008	10/16/2008

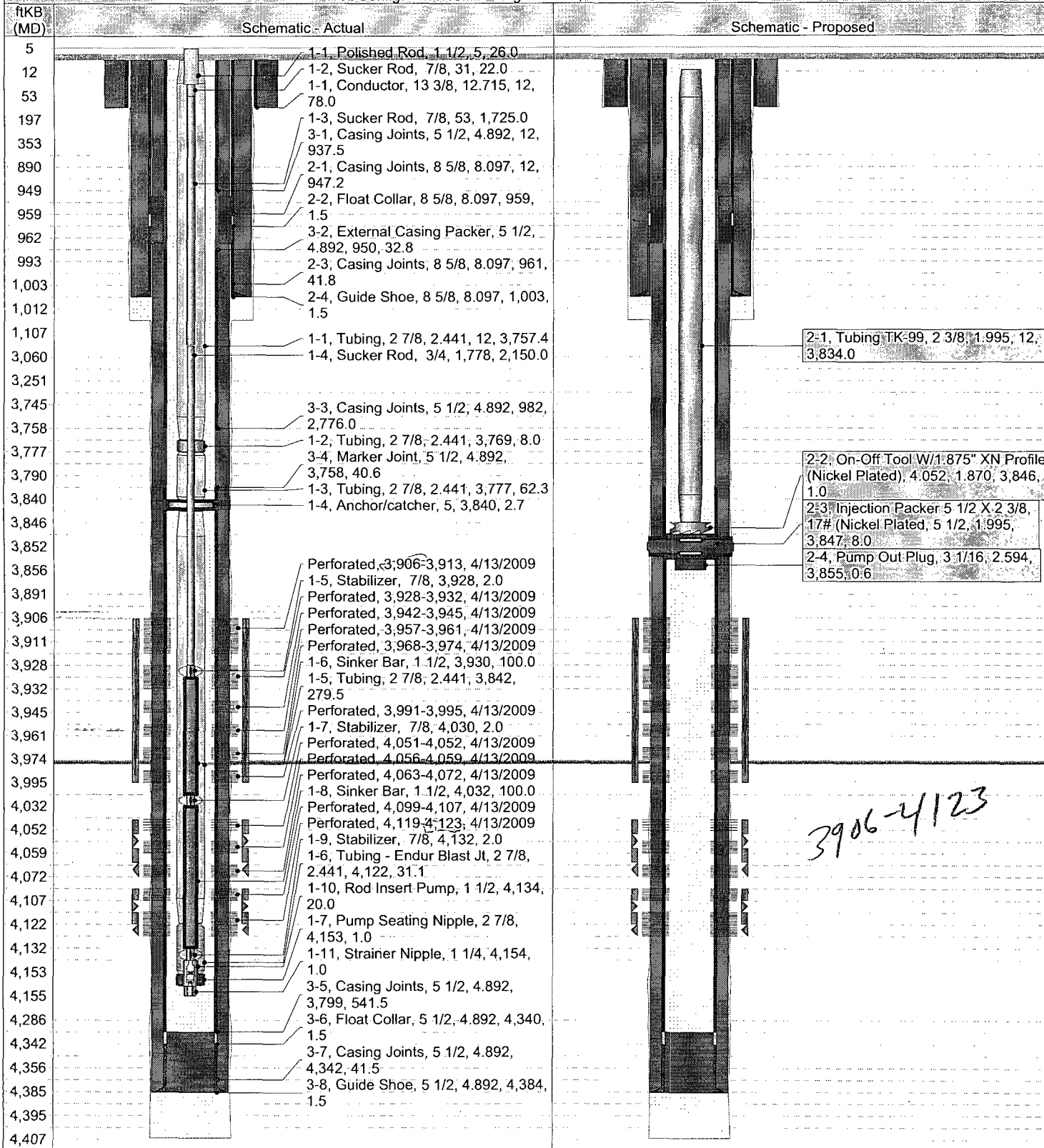
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Most Recent Job

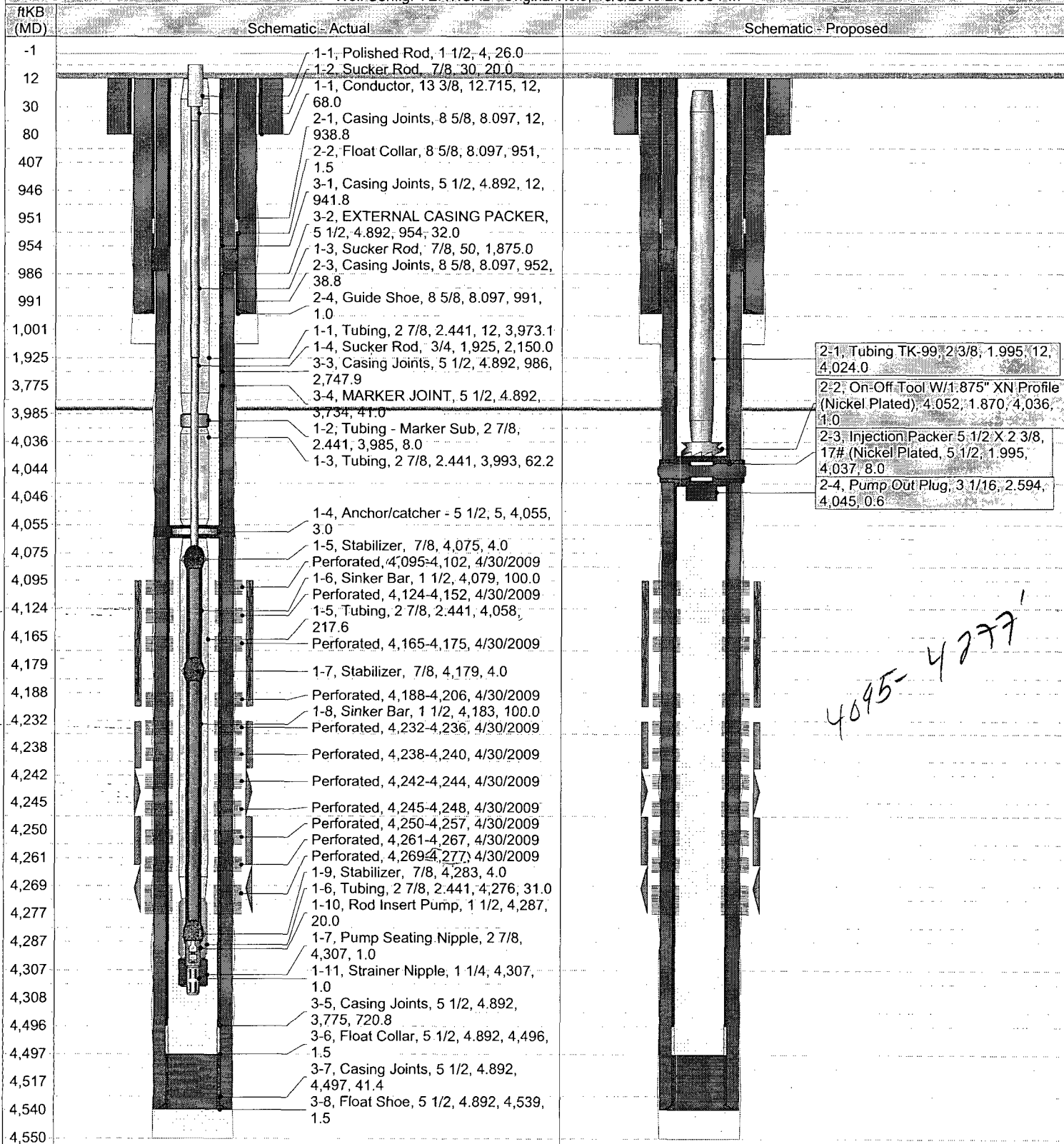
Jobs	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
Job Category FACILITIES	INSTALL FACILITIES (NEW)		4/8/2009	4/8/2009

Well Config: VERTICAL - Original Hole: 10/8/2010 2:23:00 PM



District PERMIAN	Field Name MALJAMAR	API / UWI 3002539315	County LEA	State/Province NEW MEXICO
Original Spud Date 4/15/2009	Surface Legal Location Section 26, Township 17 S, Range 32 E	East/West Distance (ft) 10.00	East/West Reference FWL	North/South Distance (ft) 610.00
				North/South Reference FSL

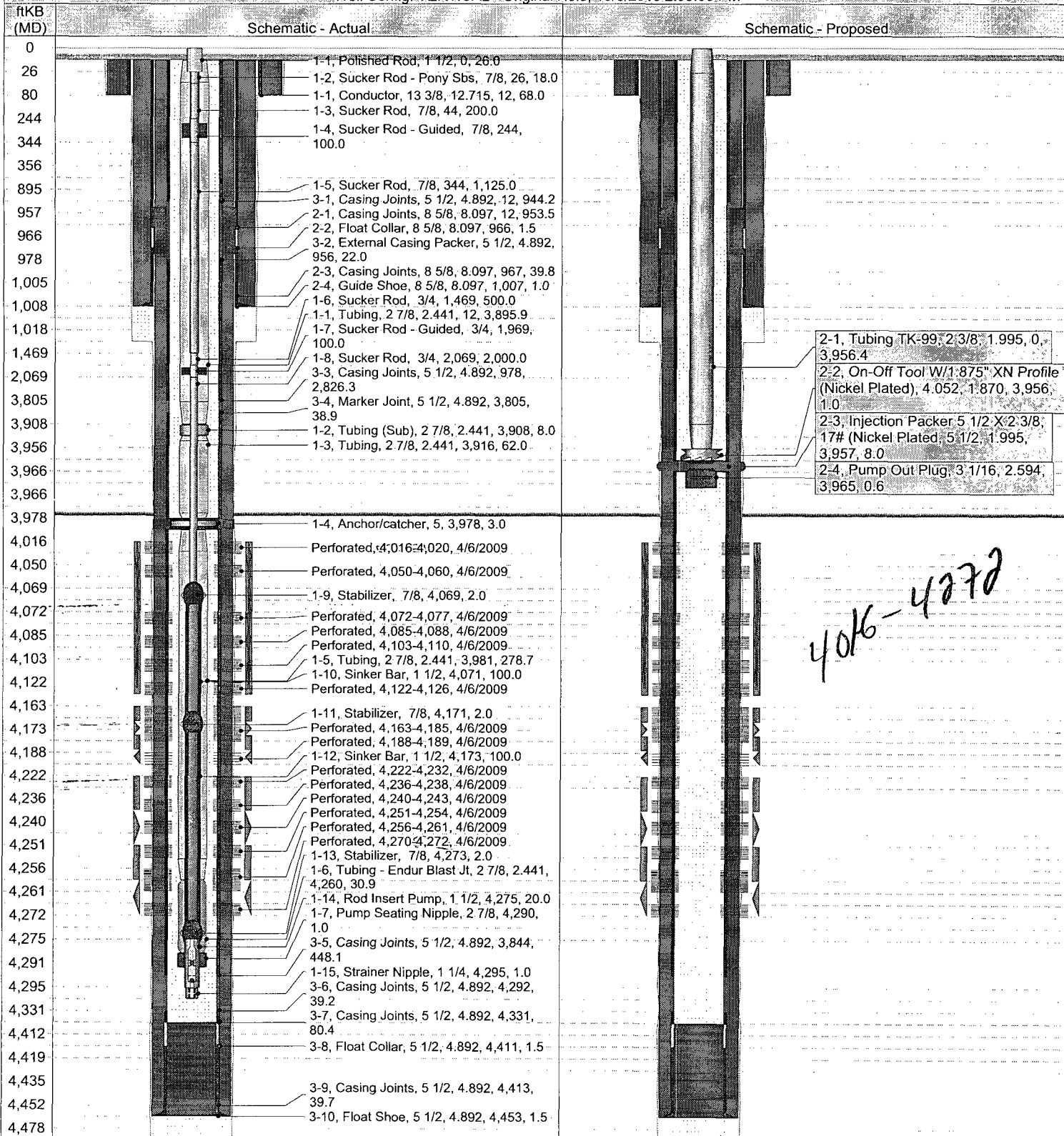
Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM



4095-4277'

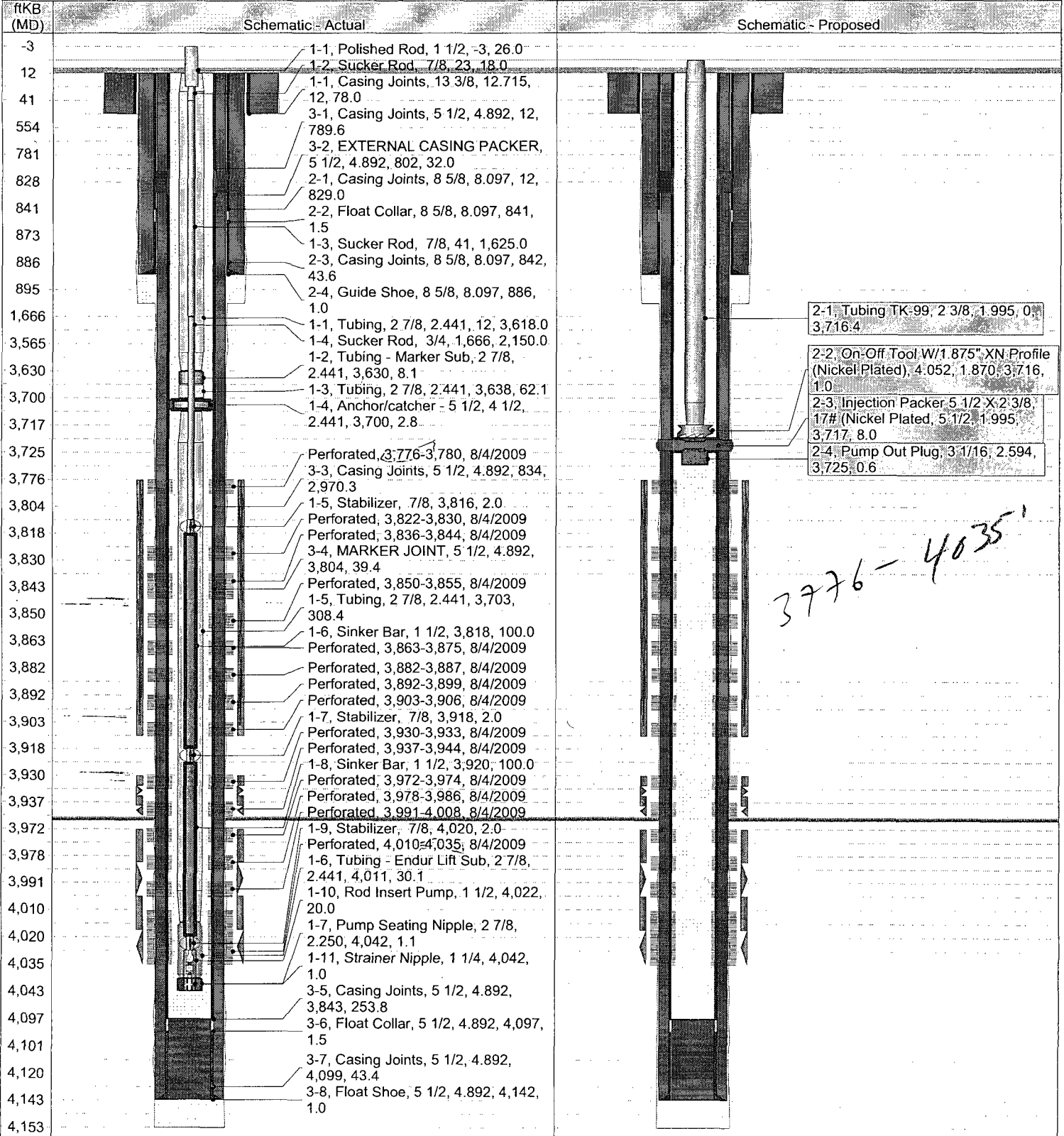
District PERMIAN	Field Name MALJAMAR	API / UWI 3002539324	County LEA	State/Province NEW MEXICO
Original Spud Date 3/21/2009	Surface Legal Location Section 26, Township 17 S, Range 32 E	East/West Distance (ft) 1,805.00	East/West Reference FWL	North/South Distance (ft) 2,630.00
				North/South Reference FSL

Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM



District PERMIAN	Field Name MALJAMAR	API / UWI 3002539402	County LEA	State/Province NEW MEXICO
Original Spud Date 7/21/2009	Surface Legal Location Section 28, Township 17 S, Range 32 E	East/West Distance (ft) 510.00	East/West Reference FWL	North/South Distance (ft) 1,310.00
				North/South Reference FSL

Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM



District PERMIAN	Field Name MALJAMAR	API / UWI 3002539403	County LEA	State/Province NEW MEXICO
Original Spud Date 7/26/2009	Surface Legal Location Section 28, Township 17 S, Range 32 E	East/West Distance (ft) 1,330.00	East/West Reference FWL	North/South Distance (ft) 1,860.00
		North/South Reference FSL		

Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM

ftKB (MD)	Schematic - Actual	Schematic - Proposed
0	2-1, Polished Rod, 1 1/2, 0, 26.0	
12	2-2, Sucker Rod, 7/8, 26, 2.0	
28	1-1, Casing Joints, 13 3/8, 12, 715, 12, 78.0	
365	3-1, Casing Joints, 5 1/2, 4,892, 12, 776.3	
552	3-2, EXTERNAL CASING PACKER, 5 1/2, 4,892, 788, 32.0	
788	2-3, Sucker Rod, 7/8, 28, 1,625.0	
820	2-1, Casing Joints, 8 5/8, 8,097, 12, 833.8	
847	2-2, Float Collar, 8 5/8, 8,097, 846, 1.5	
888	2-3, Casing Joints, 8 5/8, 8,097, 847, 43.7	
892	2-4, Guide Shoe, 8 5/8, 8,097, 891, 1.0	
902	2-1, Tubing, 2 7/8, 2,441, 12, 3,634.0	
3,354	2-4, Sucker Rod, 3/4, 1,653, 2,150.0	3-1, Tubing TK-99, 2 3/8, 1,995, 0, 3,724.0
3,538	2-2, Tubing Marker Sub, 2 7/8, 2,441, 3,646, 8.1	
3,654	2-3, Tubing, 2 7/8, 2,441, 3,654, 61.3	3-2, On-Off Tool W/1.875" XN Profile (Nickel Plated), 4,052, 1,870, 3,724, 1.0
3,716	2-4, Anchor 5 1/2 X 2 7/8, 4,995, 2,441, 3,715, 2.7	3-3, Injection Packer 5 1/2 X 2 3/8, 17# (Nickel Plated), 5 1/2, 1,995, 3,725, 8.0
3,724		3-4, Pump Out Plug, 3 1/16, 2,594, 3,733, 0.6
3,733	3-3, Casing Joints, 5 1/2, 4,892, 820, 2,924.2	
3,744	3-4, Marker Joint, 5 1/2, 4,892, 3,744, 40.4	
3,785	Perforated, 3,784-3,792, 8/7/2009	
3,798	Perforated, 3,798-3,809, 8/7/2009	
3,805	2-5, Stabilizer, 7/8, 3,803, 2.0	
3,814	Perforated, 3,814-3,819, 8/7/2009	
3,825	Perforated, 3,825-3,839, 8/7/2009	
3,842	Perforated, 3,842-3,846, 8/7/2009	
3,873	2-6, Sinkers Bar, 1 1/2, 3,805, 100.0	
3,887	2-5, Tubing, 2 7/8, 2,441, 3,718, 277.0	
3,893	Perforated, 3,873-3,881, 8/7/2009	
3,907	Perforated, 3,887-3,890, 8/7/2009	
3,909	Perforated, 3,893-3,908, 8/7/2009	
3,949	2-7, Stabilizer, 7/8, 3,905, 2.0	
3,969	Perforated, 3,944-3,949, 8/7/2009	
3,995	2-8, Sinkers Bar, 1 1/2, 3,907, 100.0	
4,007	Perforated, 3,956-3,969, 8/7/2009	
4,027	Perforated, 3,975-3,999, 8/7/2009	
4,029	2-9, Stabilizer, 7/8, 4,007, 2.0	
4,066	2-6, Tubing TK-99, 2 7/8, 2,441, 3,995, 31.6	
4,072	2-10, Rod Insert Pump, 1 3/4, 4,009, 20.0	
4,081	2-7, Pump Seating Nipple, 2 7/8, 2,250, 4,027, 1.1	
4,114	2-11, Strainer Nipple, 1 1/4, 4,029, 1.0	
4,123	3-5, Casing Joints, 5 1/2, 4,892, 3,785, 285.5	
	3-6, Float Collar, 5 1/2, 4,892, 4,070, 1.5	
	3-7, Casing Joints, 5 1/2, 4,892, 4,072, 41.7	
	3-8, Guide Shoe, 5 1/2, 4,892, 4,113, 1.5	

3784' - 3999'

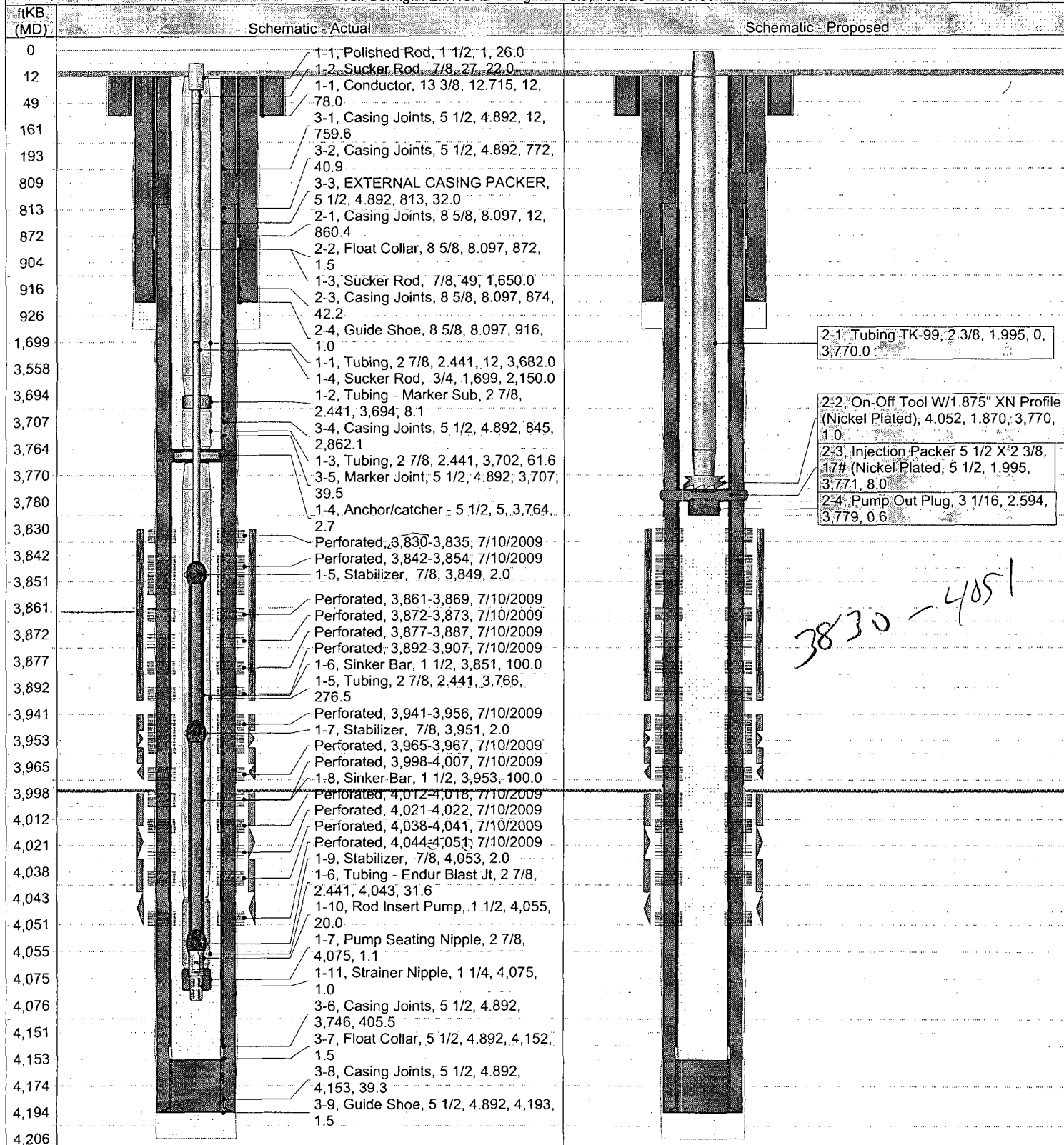


Schematic - Current

MCA 486

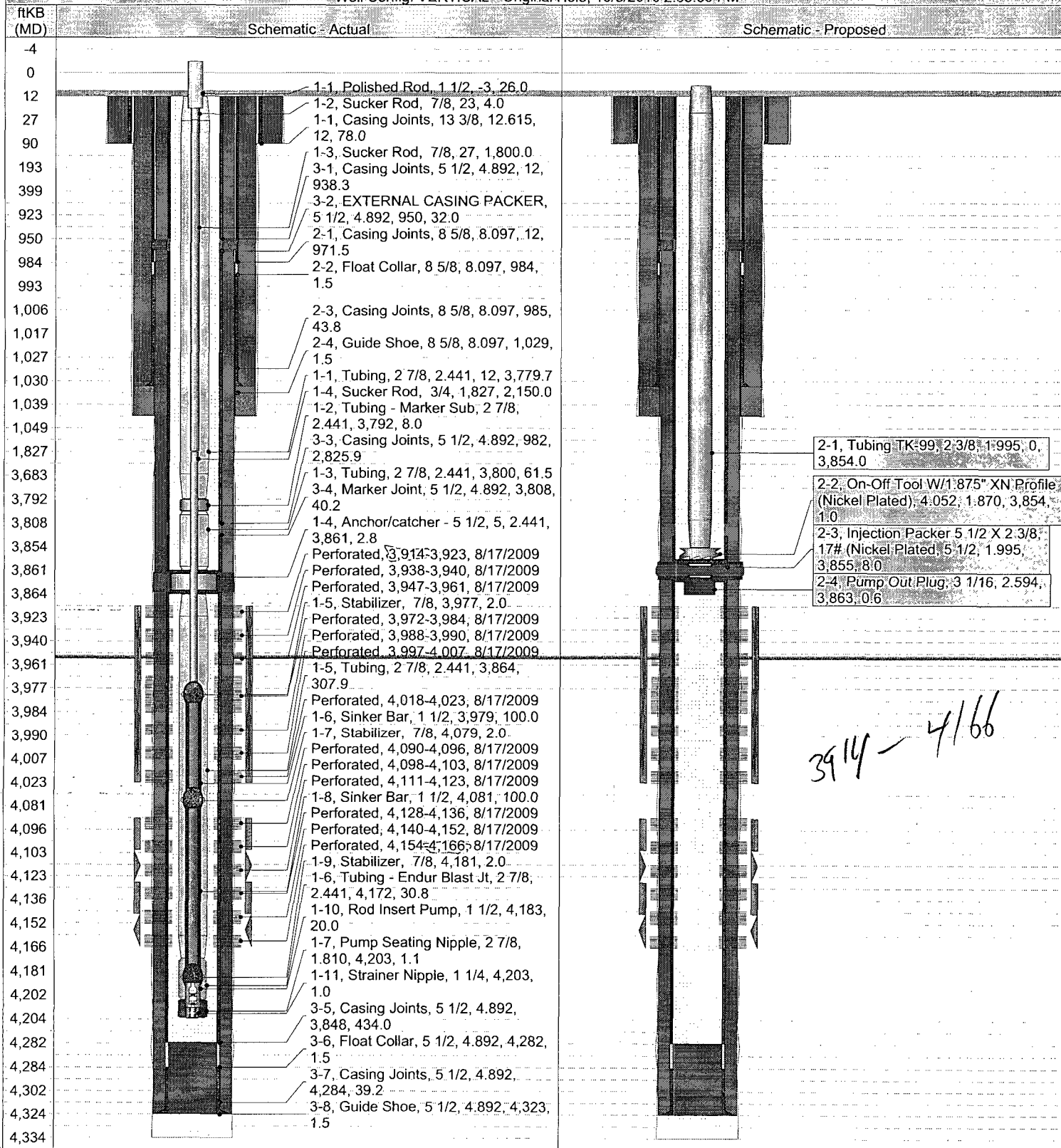
District PERMIAN	Field Name MALJAMAR	API / UWI 3002539355	County LEA	State/Province NEW MEXICO	
Original Spud Date 6/27/2009	Surface Legal Location Section 28, Township 17 S, Range 32 E	East/West Distance (ft) 560.00	East/West Reference FEL	North/South Distance (ft) 2,580.00	North/South Reference FSL

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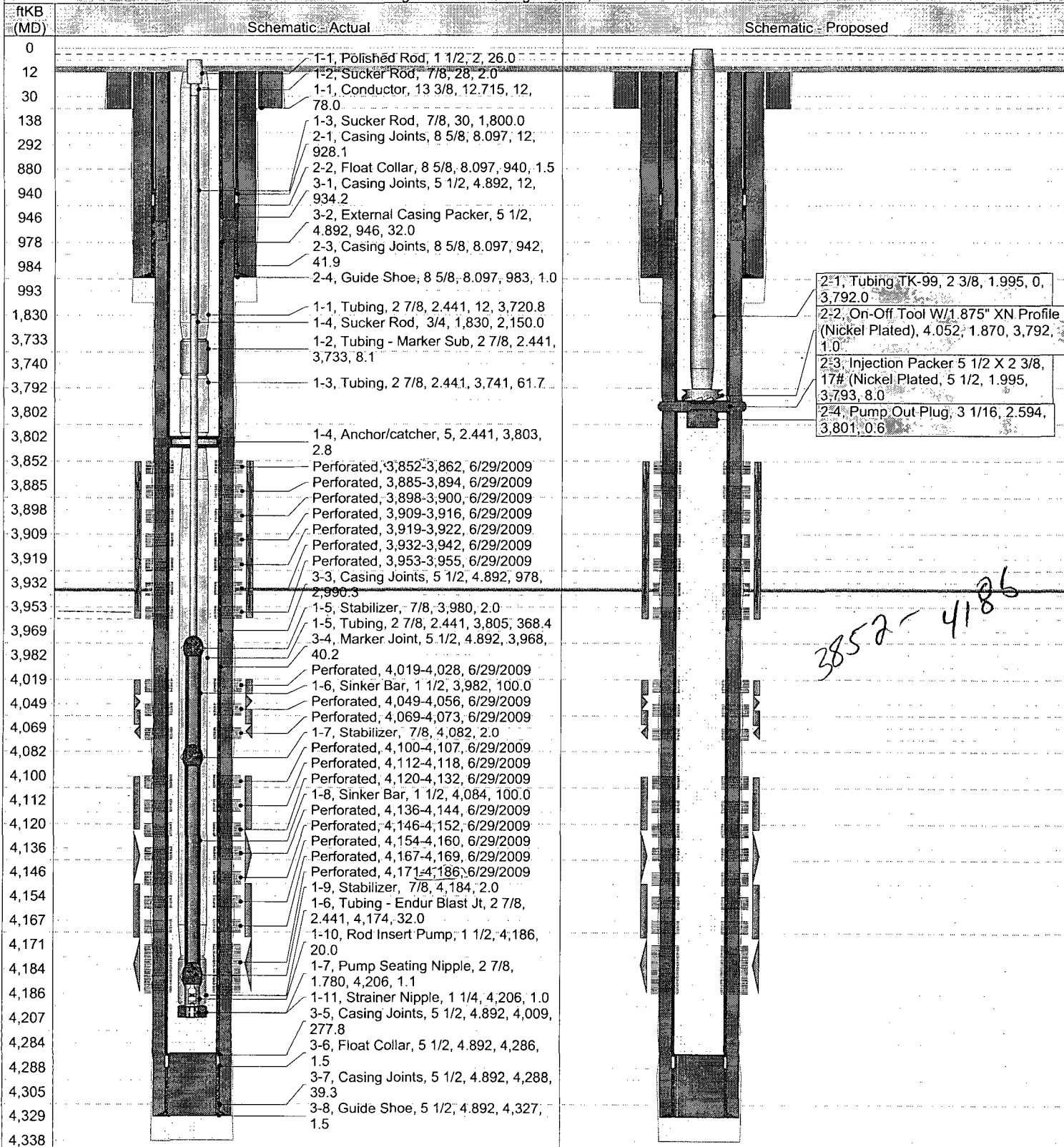
District PERMIAN	Field Name MALJAMAR	API / UWI 3002539432	County LEA	State/Province NEW MEXICO
Original Spud Date 8/1/2009	Surface Legal Location Section 33, Township 17 S, Range 32 E	East/West Distance (ft) 1,110.00	East/West Reference FEL	North/South Distance (ft) 660.00
				North/South Reference FNL

Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM



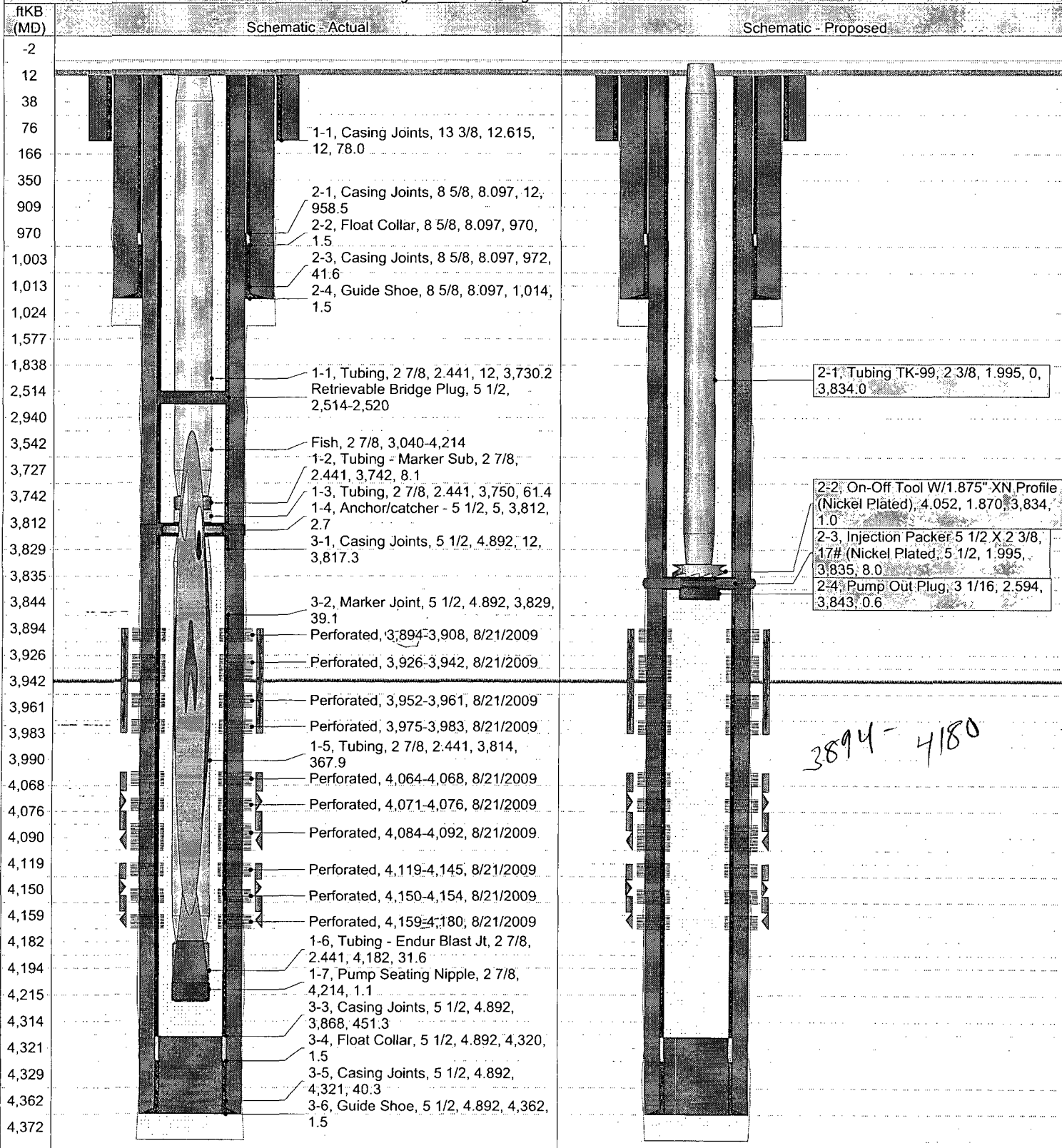
District PERMIAN	Field Name MALJAMAR	API / UWI 3002539322	County LEA	State/Province NEW MEXICO
Original Spud Date 6/15/2009	Surface Legal Location Section 33, Township 17 S, Range 32 E	East/West Distance (ft) 1,370.00	East/West Reference FWL	North/South Distance (ft) 510.00
				North/South Reference FNL

Well Config: VERTICAL - Original Hole: 10/8/2010 2:53:50 PM



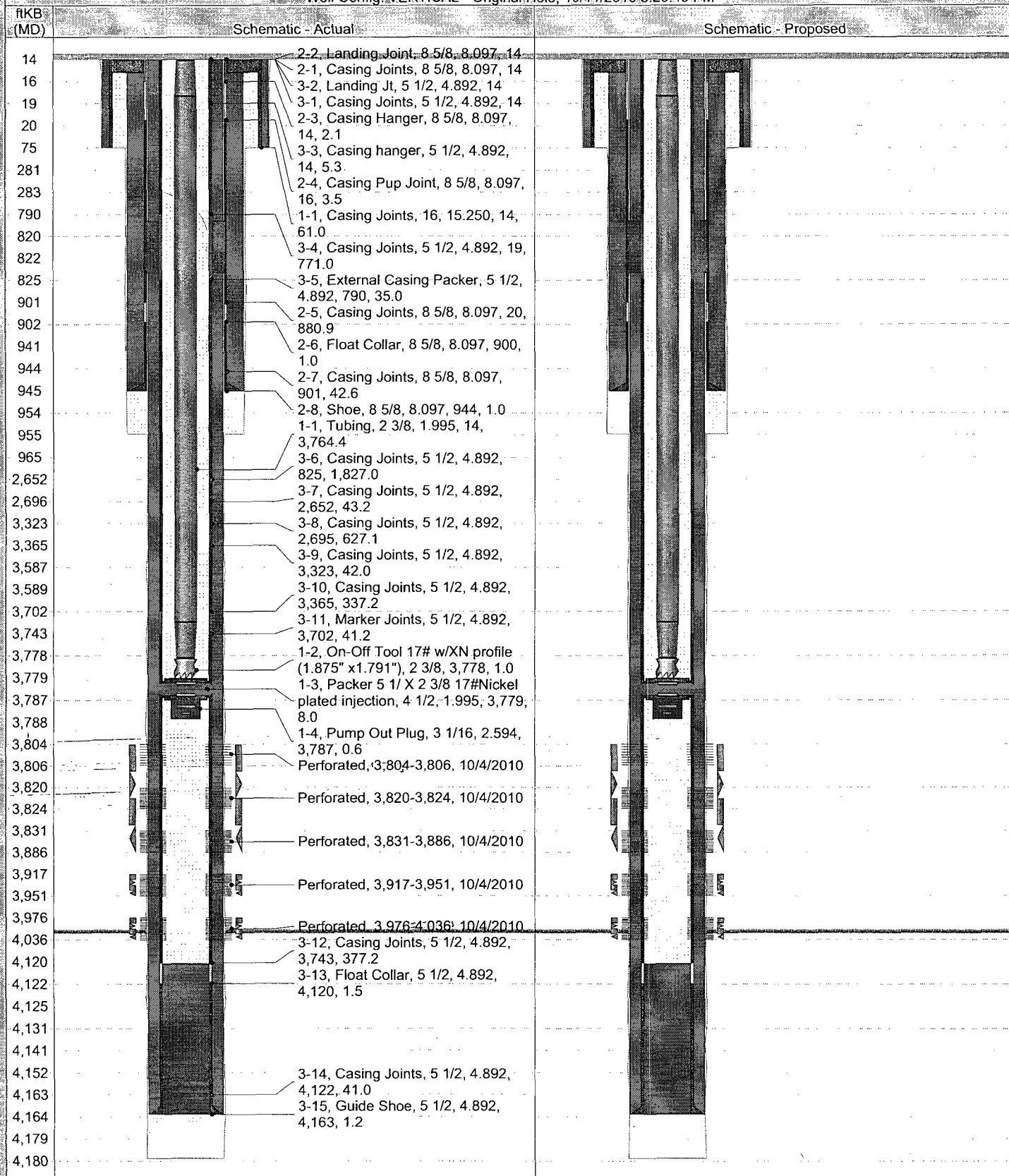
District PERMIAN	Field Name MALJAMAR	API / UWI 3002539433	County LEA	State/Province NEW MEXICO
Original Spud Date 8/9/2009	Surface Legal Location Section 33, Township 17 S, Range 32 E	East/West Distance (ft) 1,980.00	East/West Reference FEL	North/South Distance (ft) 1,330.00
				North/South Reference FNL

Well Config: VERTICAL - Original Hole, 10/8/2010 2:53:50 PM



District PERMIAN	Field Name MALJAMAR	API / UWI 3002539409	County LEA	State/Province NEW MEXICO
Original Spud Date 9/19/2010	Surface Legal Location Section 27, Township 17 S, Range 32 E	E/W Dist (ft) 160.00	E/W Ref FWL	N/S Dist (ft) 1,980.00
			N/S Ref FNL	

Well Config: VERTICAL - Original Hole, 10/11/2010 5:20:40 PM



District PERMIAN	Field Name MALJAMAR	API / UWI 3002539766	County LEA	State/Province NEW MEXICO
Original Spud Date 9/13/2010	Surface Legal Location Section 28, Township 17 S, Range 32 E	E/W Dist (ft) 1,995.00	E/W Ref FEL	N/S Dist (ft) 1,310.00
			N/S Ref FSL	

Well Config: VERTICAL - Original Hole, 10/11/2010 5:20:40 PM

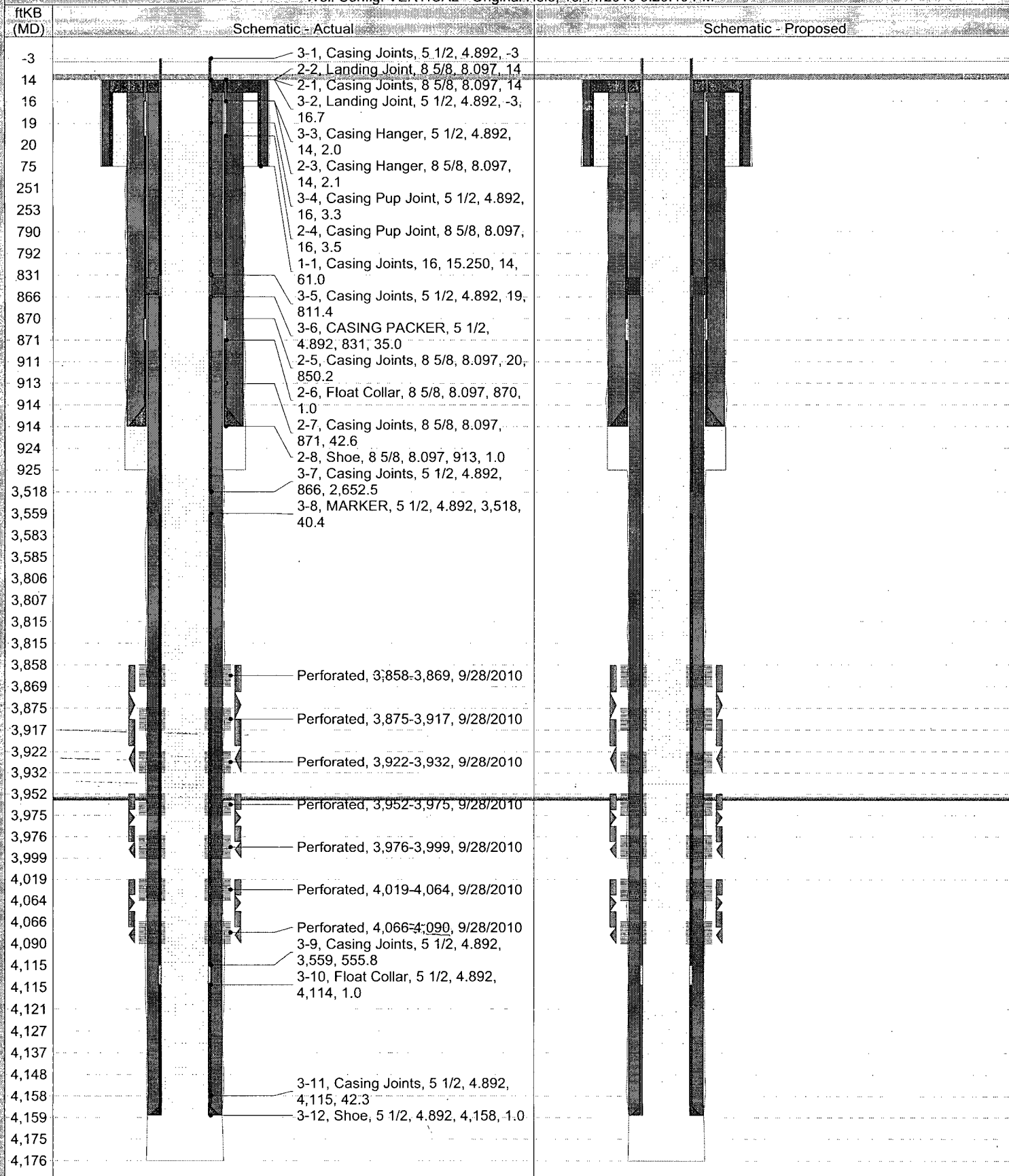
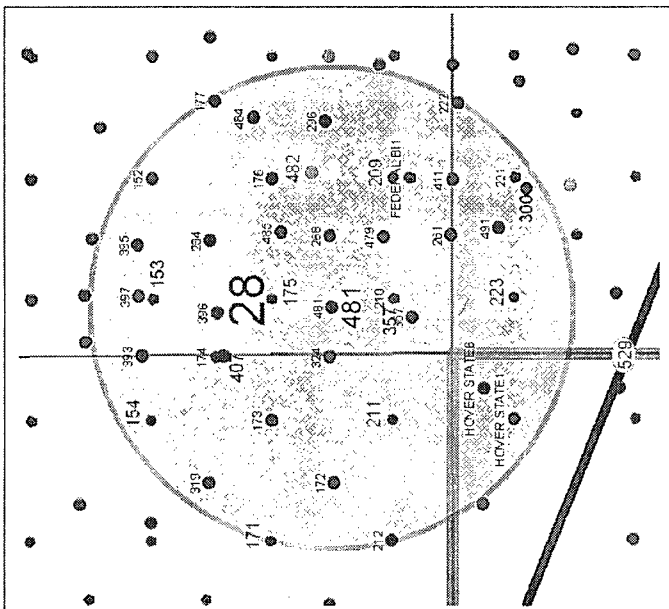
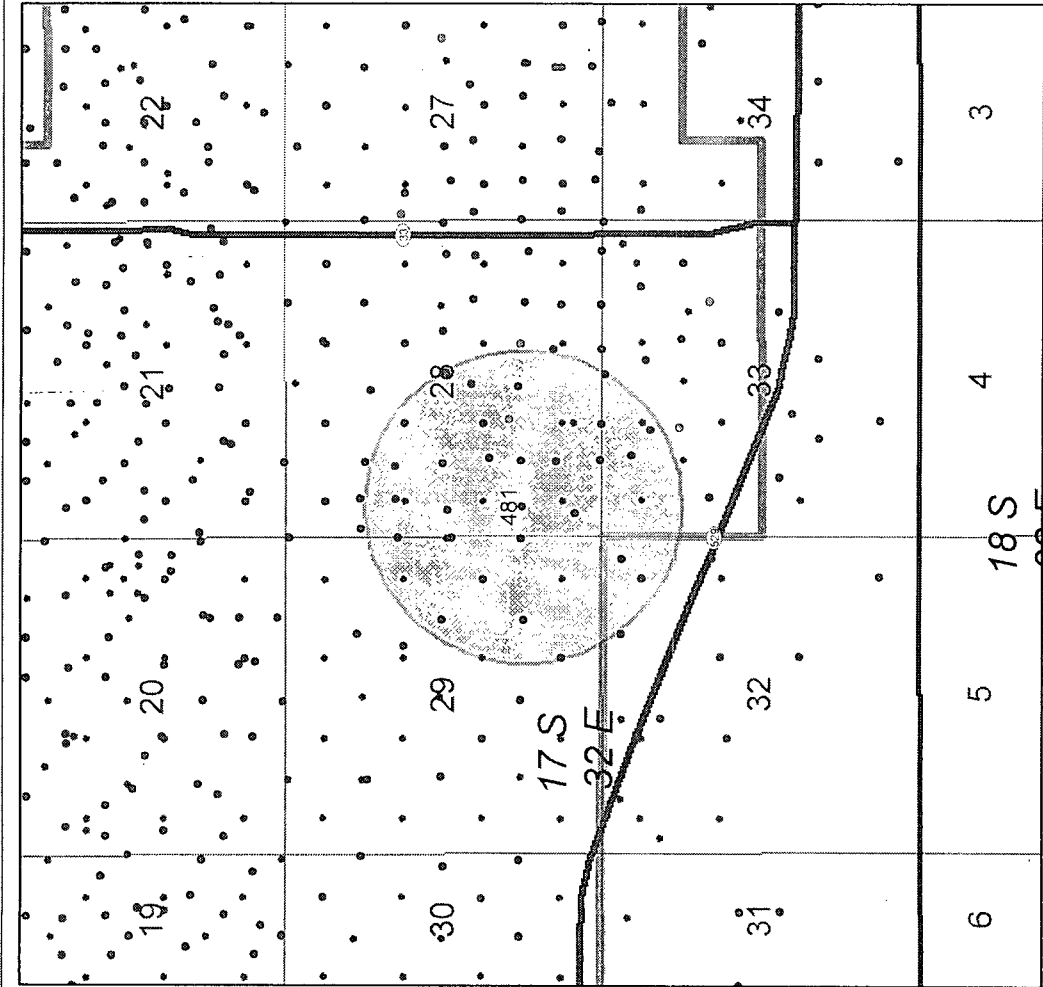
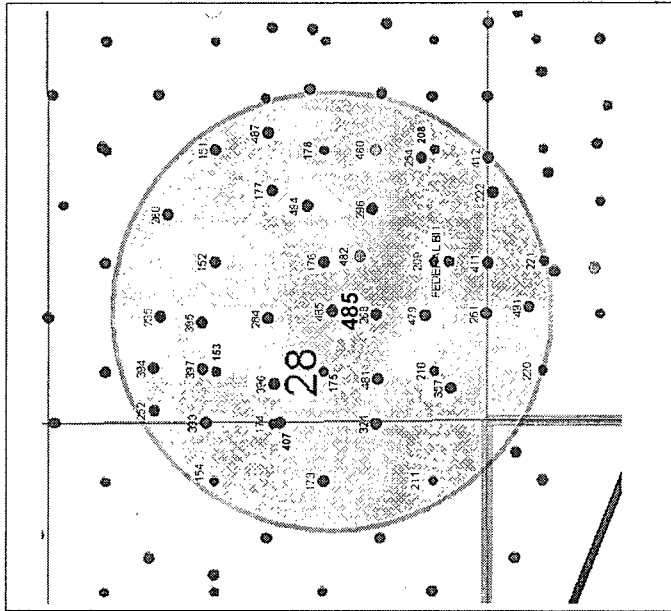
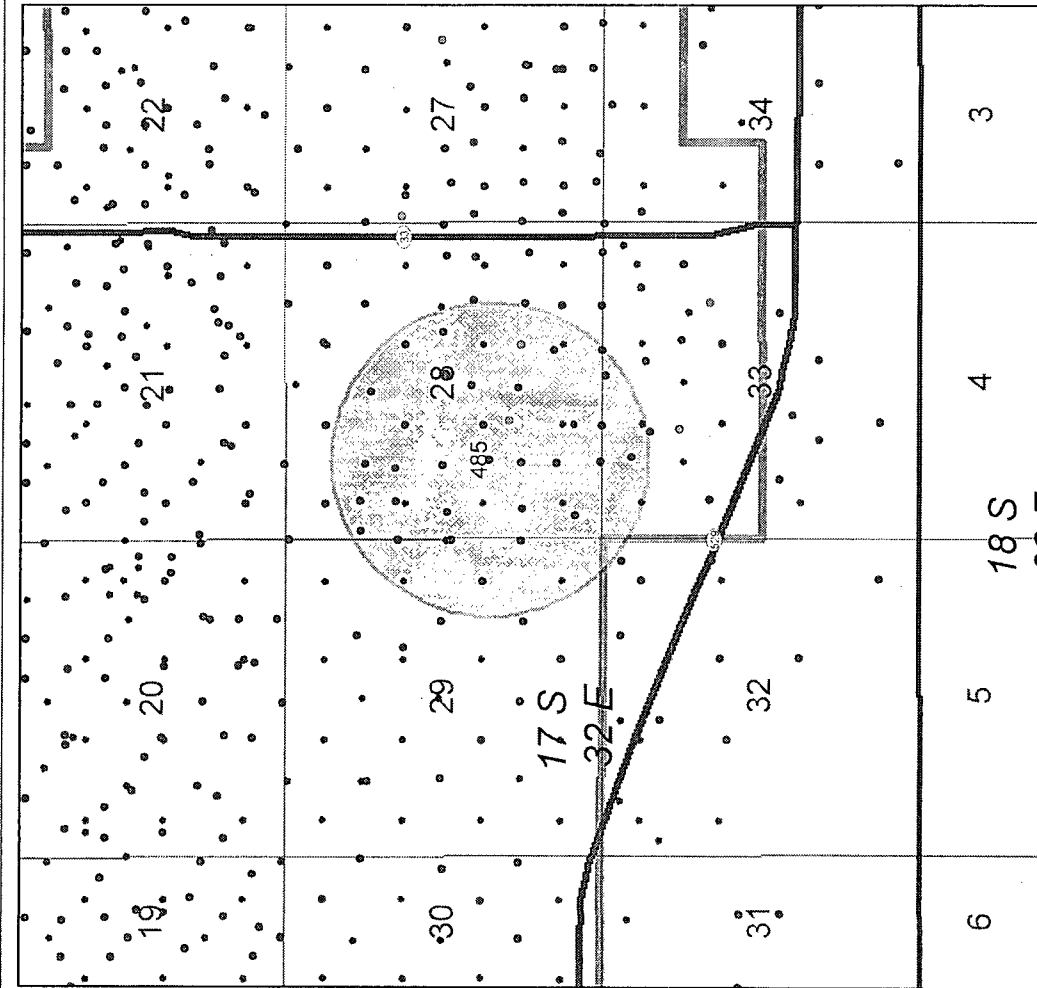


Exhibit # 2



Lea County, New Mexico
MCA UNIT
 MCA 481
 API # 3002539402

Author: Charlie E. Angerman	Date: Oct-13-2010
Compiled by: Dac N. Pham	Scale: 1:24000
Project File: MCA_481_halfmile_1in2000ft.mxd	
Proj: NME State Plane 1977	

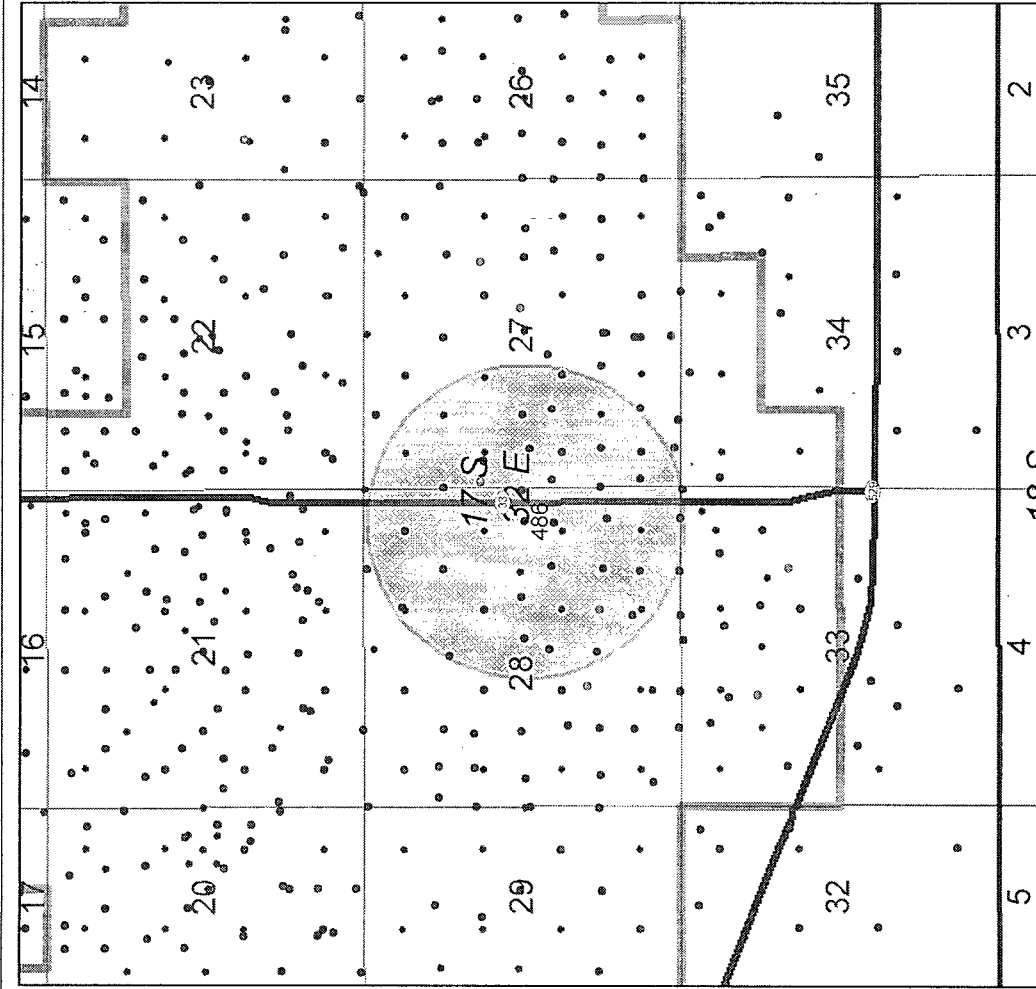


Lea County, New Mexico

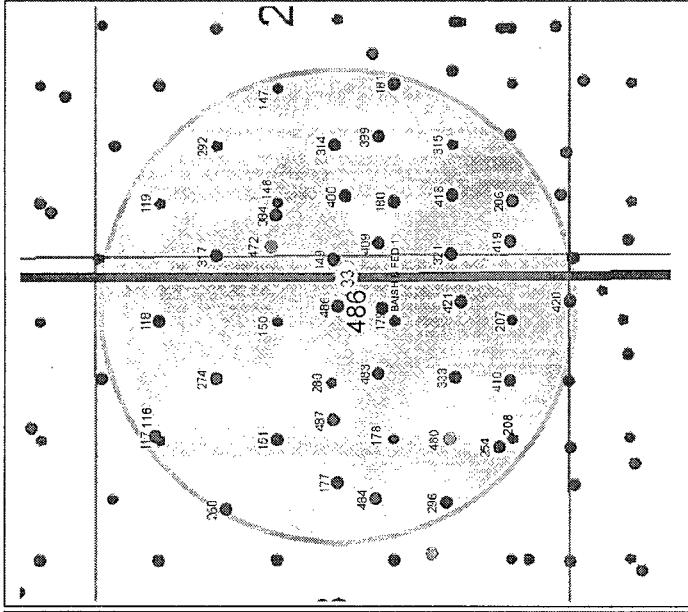
MCA UNIT

MCA 485
API # 3002539403

Author: Charlie E. Angerman Compiled by: Dae N. Pham Project File: MCA_485_Hallmha_1in2000R.mxd	Date: Oct-12-2010 Scale: 1:24000 Proj: NME State Plane 1927
---	---



0 1,000 2,000 Feet



ConocoPhillips

Lea County, New Mexico

MCA UNIT

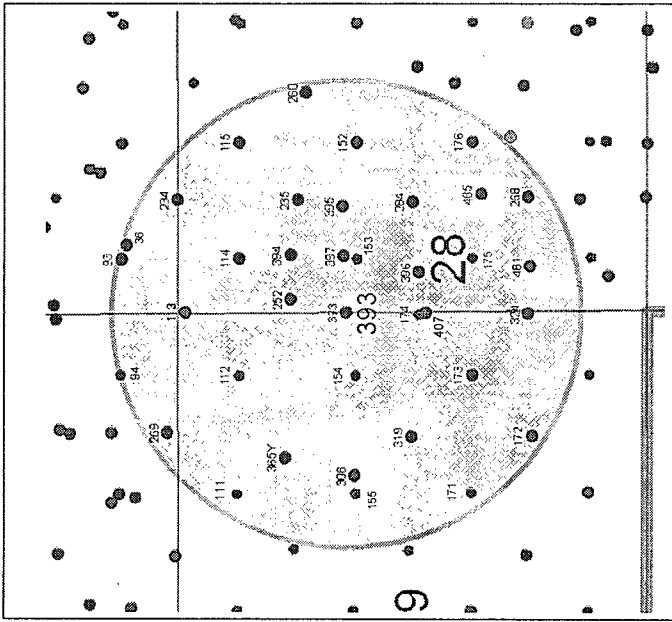
MCA 486

API # 30025339355

Author: Charles E. Angerman	Date: Oct-13-2010
Compiled by: Dac N. Pham	Scale: 1:25000
Project File: MCA_486_Hallmire_in2000Ft.mxd	
Proj: NME State Plane 1927	



- Legend**
MCA_P2K_Prod_Oct2010
STATUS
• ACTIVE
• INACTIVE
• MCA_OFM_Prod_Oil_Adding_Oct2010
• MCA_Proposed_Wells_Oct2010
MCA_Well_Outline_Polygon
Township/Range
Sections
Radius Well MCA 393
Area of Influence (API # 3002537879)



ConocoPhillips

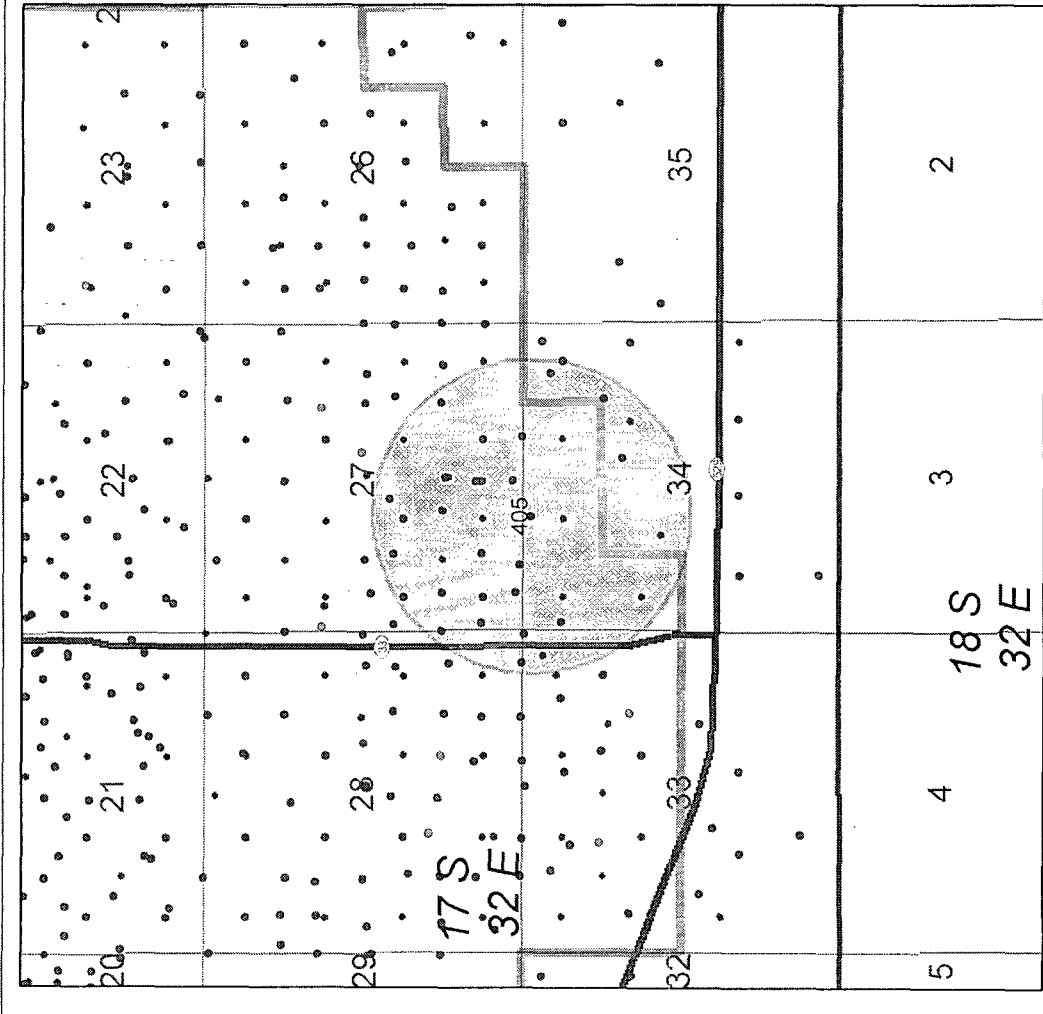
Lea County, New Mexico

MCA UNITS

MCA 393

API # 3002537879

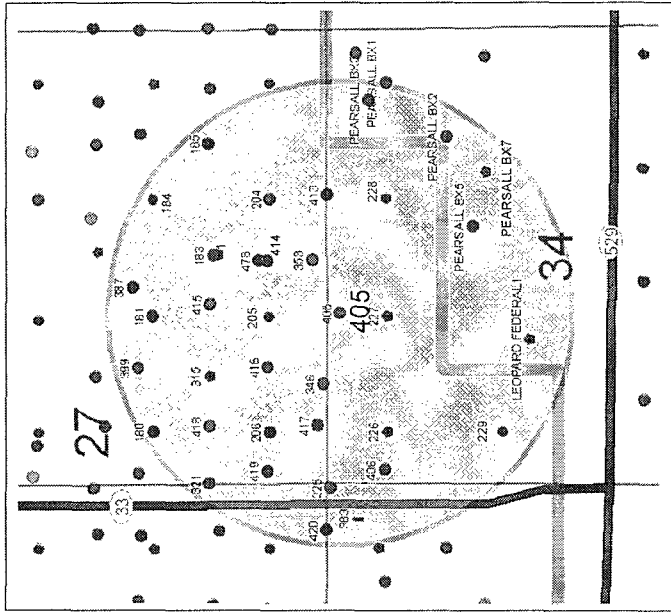
Author:	Charlie E. Angerman	Draw:	Oct-13-2010
Compiled by:	Dac N. Pham	Scale:	1:24000
Project File:	MCA_393_Hallmire_1in20000FT.mxd	Proj:	NAD State Plane 1927



Legend
 MCA_P2K_Prod_Oct2010
 STATUS
 ● ACTIVE
 ● INACTIVE
 ● MCA_OFM_Prod_Oct2010
 ● MCA_Prop_Vol_Oct2010
 MCA_Unit_Outline_2010
 Township/Range
 Sections
 Radius Well MCA 405
 Area of Influence (API # 3002538859)



0 1,000 2,000 Feet



ConocoPhillips

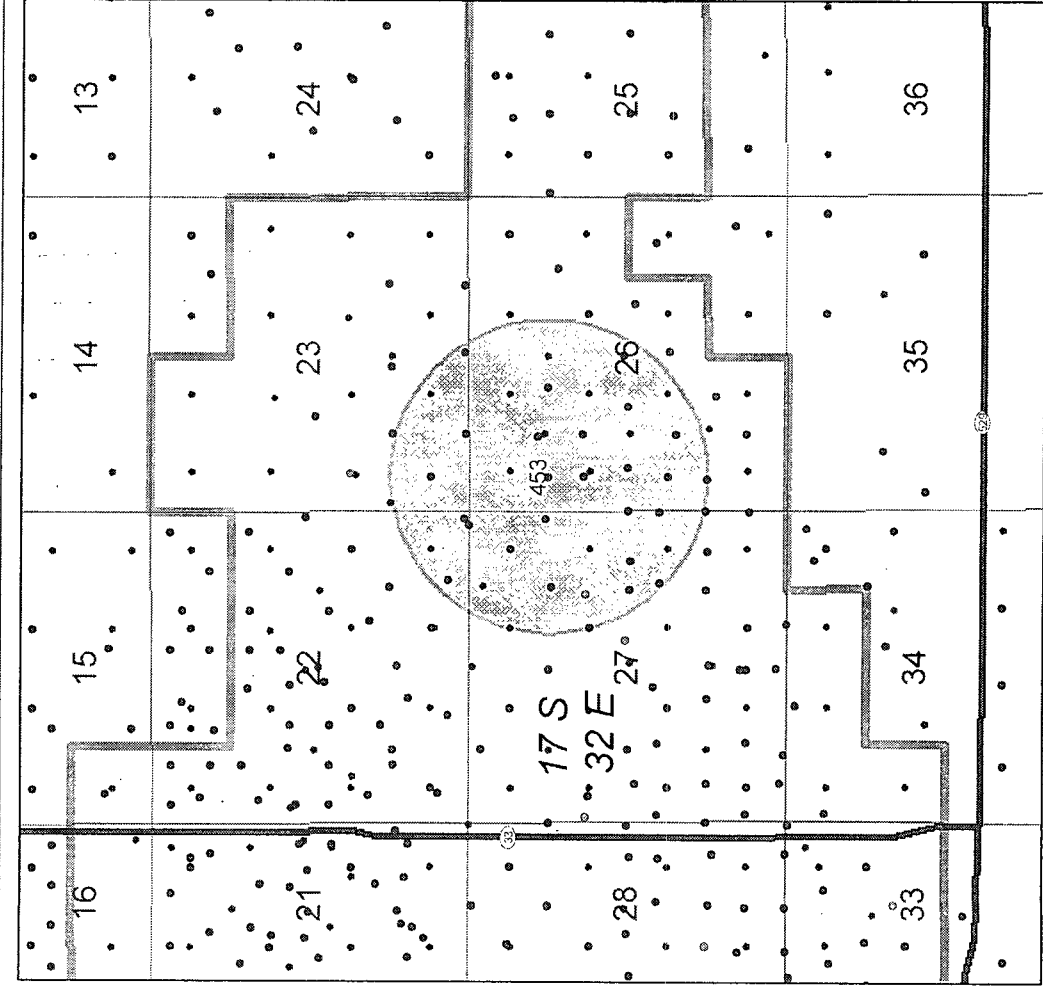
Lea County, New Mexico

MCA UNIT

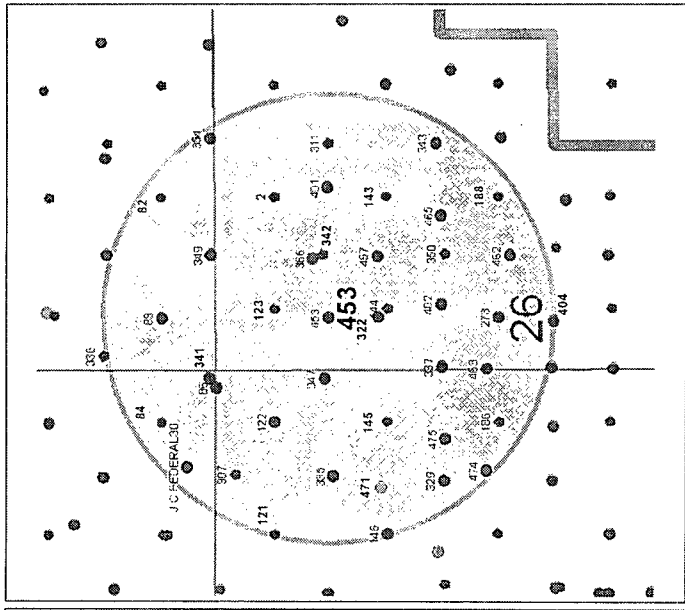
MCA 405

API # 3002538859

Author: Charlie E. Angerman	Date: Oct-12-2010
Checked by: Dae N. Pham	Scale: 1:24000
Project File: MCA_392_11a.mxd	Proj: NME State Plane 1927



- Legend**
- MCA_P2k_Prod_Oct2010
- STATUS**
- ACTIVE
 - INACTIVE
 - MCA_OFM_Prod_OIL_Adding_Oct2010
 - MCA_Prop_Well_Oct2010
- MCA_Unit_Outline_2010.gpx
- Township/Range
- Sections
- Radius Well MCA 453**
- Area of Influence (API # 3002539306)



ConocoPhillips

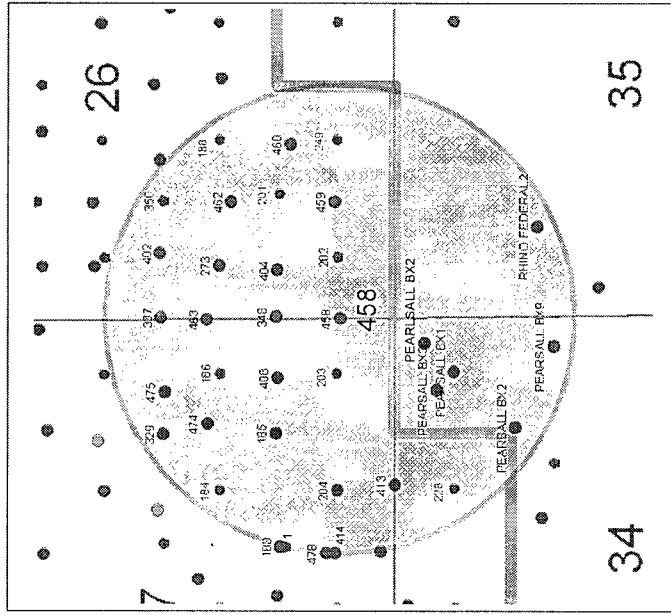
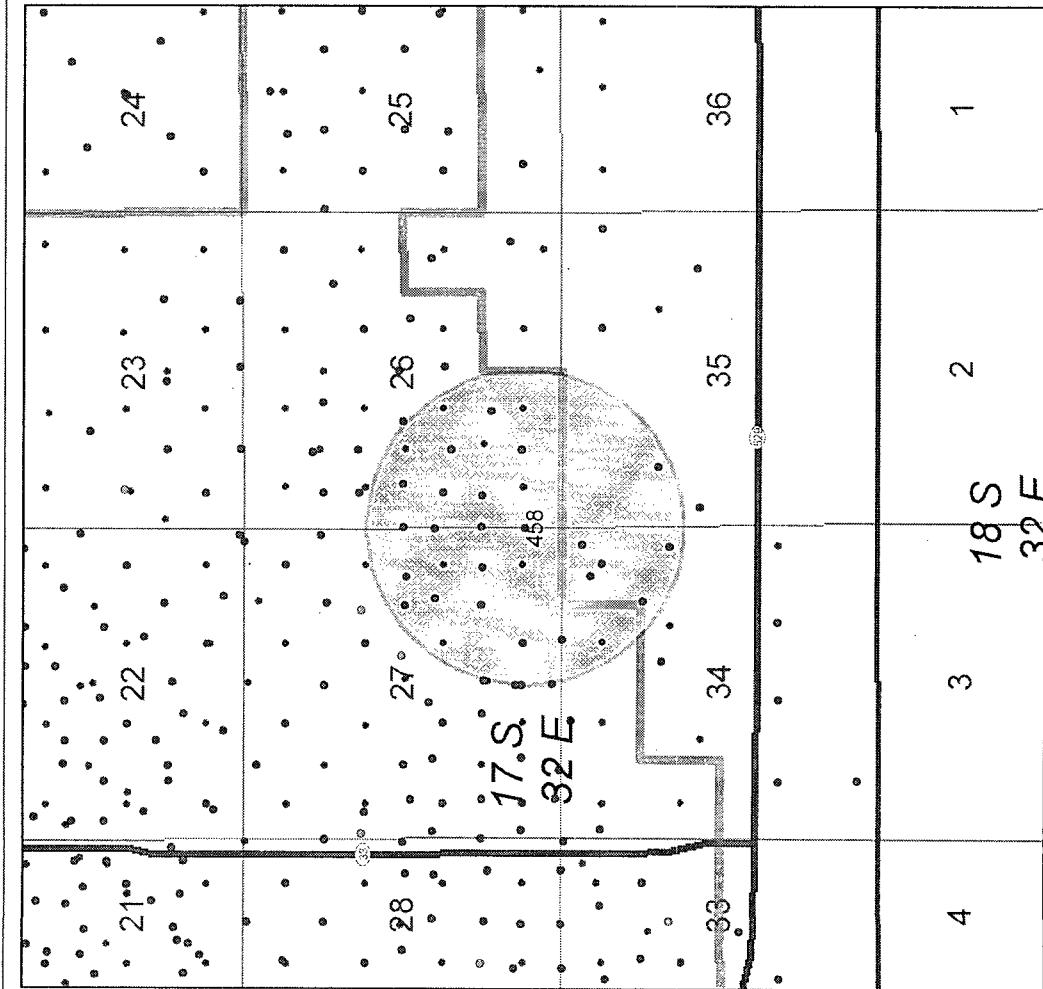
Lea County, New Mexico

MCA UNIT

MCA 453

API # 3002539306

Author:	Charlie E. Angerman	Date:	Oct-12-2010
Compiled by:	Dac N. Pham	Scale:	1:25000
Project File:	MCA_453_Hallmills_1in25000.mxd	Proj:	NME State Plane 1927



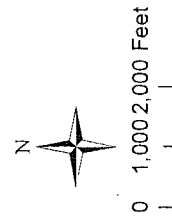
Lea County, New Mexico

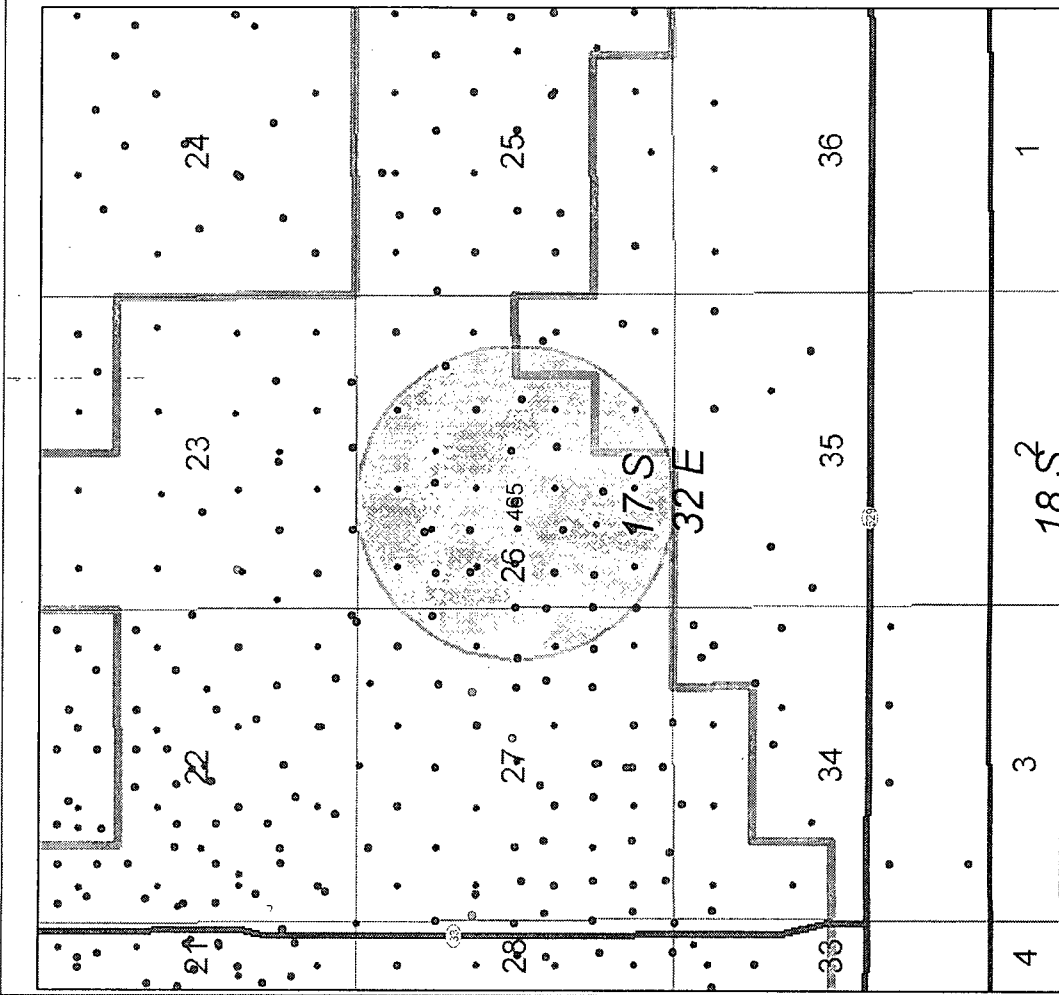
MCA UNIT

MCA 458

API # 3002539315

Author: Charlie E. Argerman	Date: Oct-12-2010
Compiled by: Dai N. Pham	Scale: 1:2000
Project File: MCA_458_Hallmiller_1in2000F.mxd	
Proj: NAD State Plane 1927	

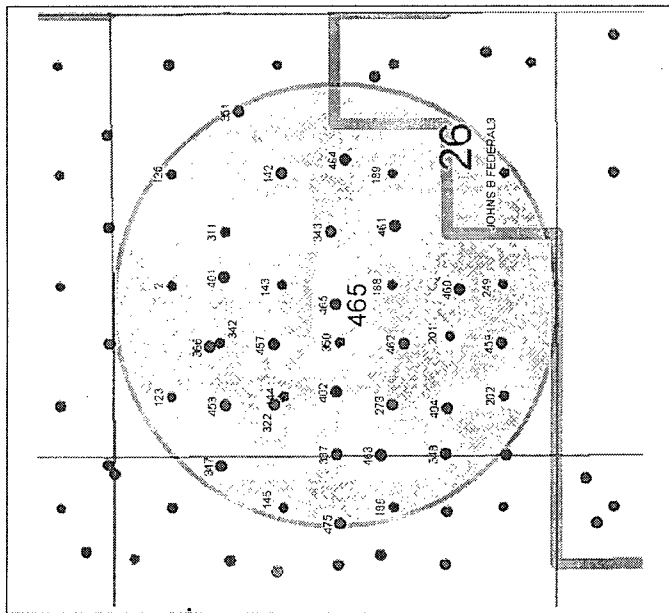




- Legend**
MCA_P2k_Prod_Oct2010
STATUS
• ACTIVE
• INACTIVE
• MCA_OFM_Prod_Oct2010
• MCA_Frp_Vol_Oct2010
 MCA_Unit_Outline_Polygon
 TowshipRange
 Sections
Radius Well MCA 465
 Area of Influence (API # 3002539324)

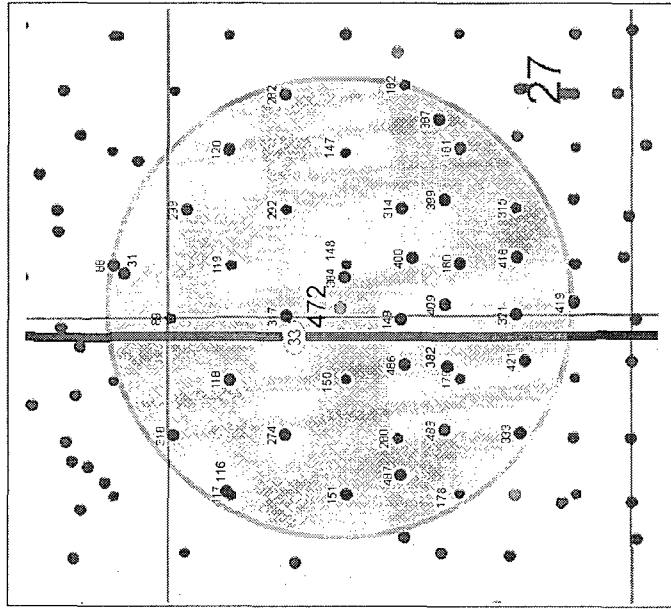
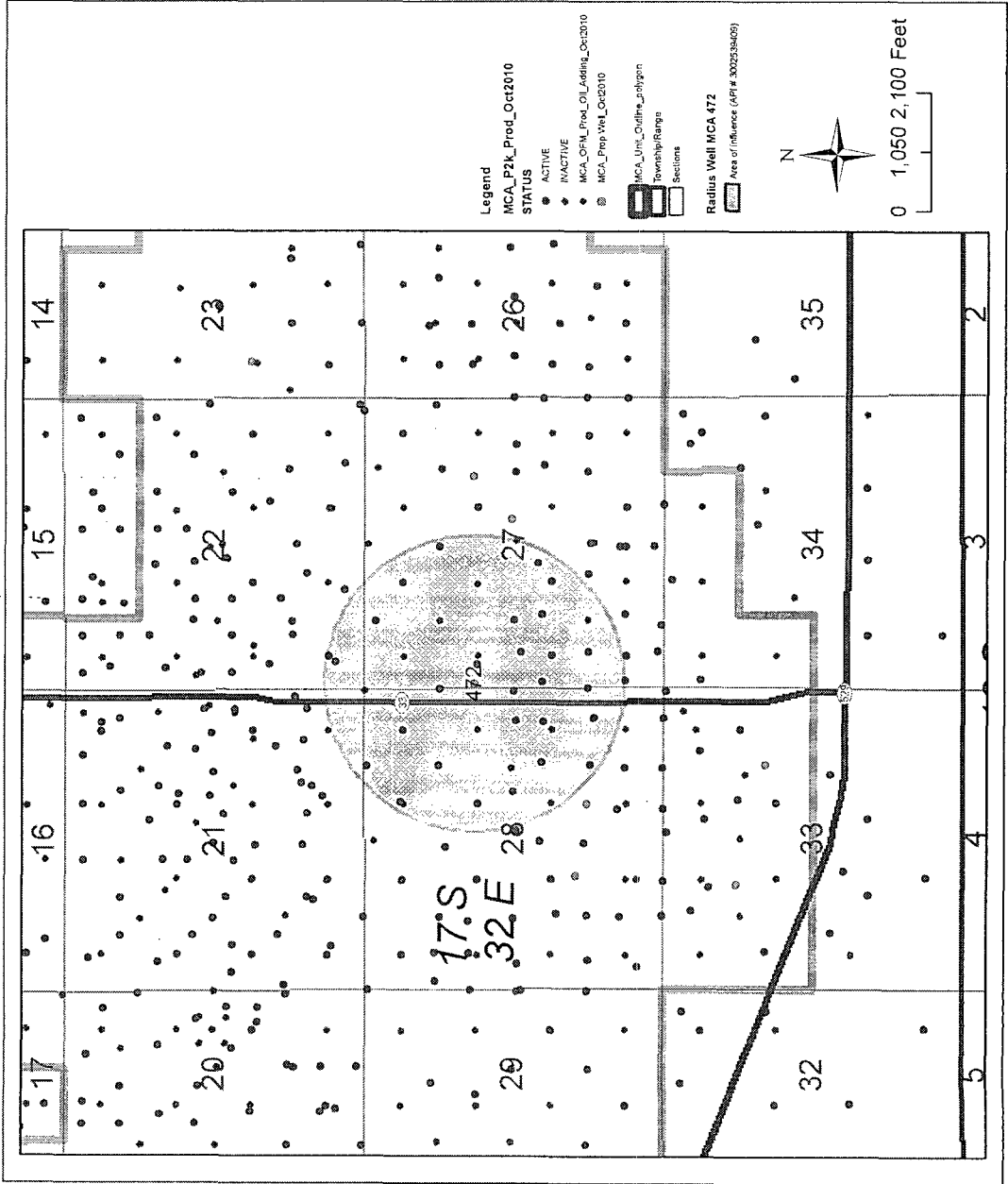


0 1,000 2,000 Feet



Lea County, New Mexico
MCA UNIT
MCA 465
API # 3002539324

Author: Charlie E. Angerman	Date: Oct-12-2010
Compiled by: Dac N. Pham	Scale: 1:2000
Project File: MCA_465_HalHille_1in2000Ft.mxd	
Proj: NME State Plane 1927	



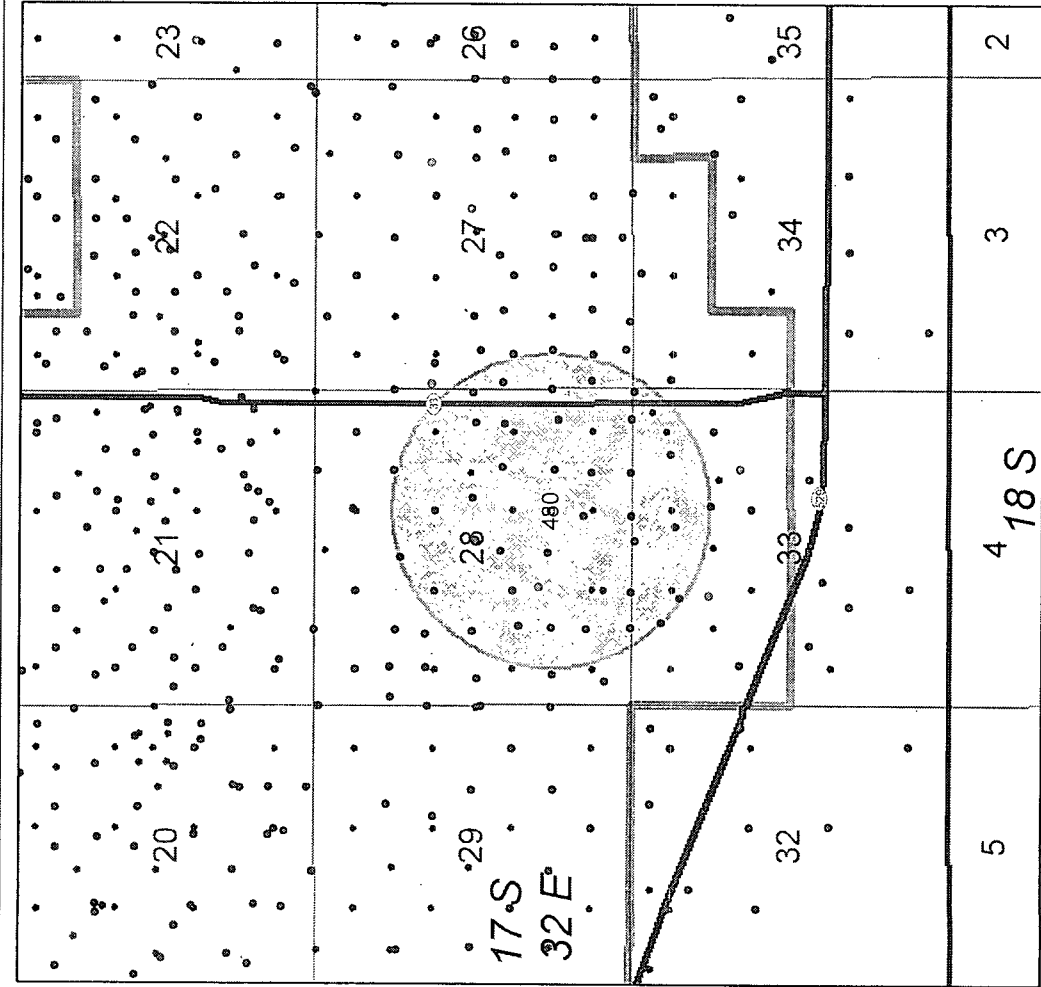
Lea County, New Mexico

MCA UNIT

MCA 472

API # 3002539409

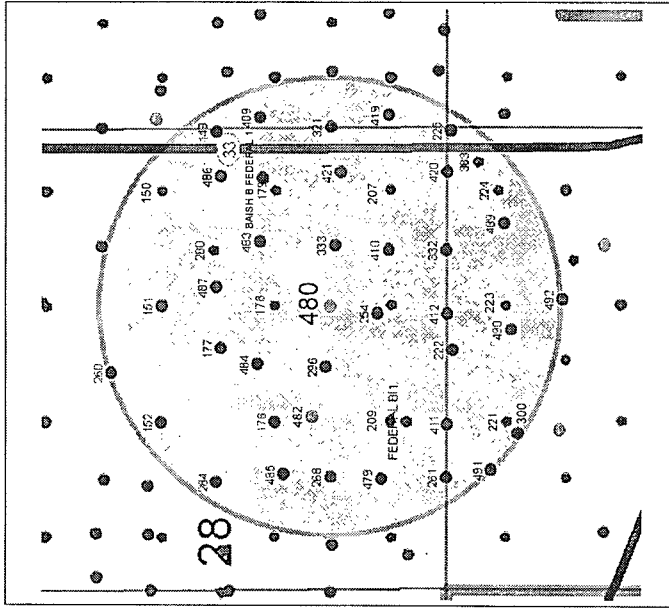
Author: Charles E. Angerman	Date: Oct-12-2010
Created by: Dac N. Pham	Scale: 1:25000
Project file: MCA_472_Malmling_in2000F.mxd	
Proj: NME State Plane 1927	



- Legend
- MCA_P2K_Prod_Oct2010
- STATUS
- ACTIVE
 - INACTIVE
 - MCA_DFM_Prod_Oct2010
 - MCA_Prop well_Oct2010
- MCA_Unit_Outline_July2010
- Township/Range
- Sections
- Radius Well MCA 480
- Area of Influence (API # 3002539766)



0 1,000 2,000 Feet



ConocoPhillips

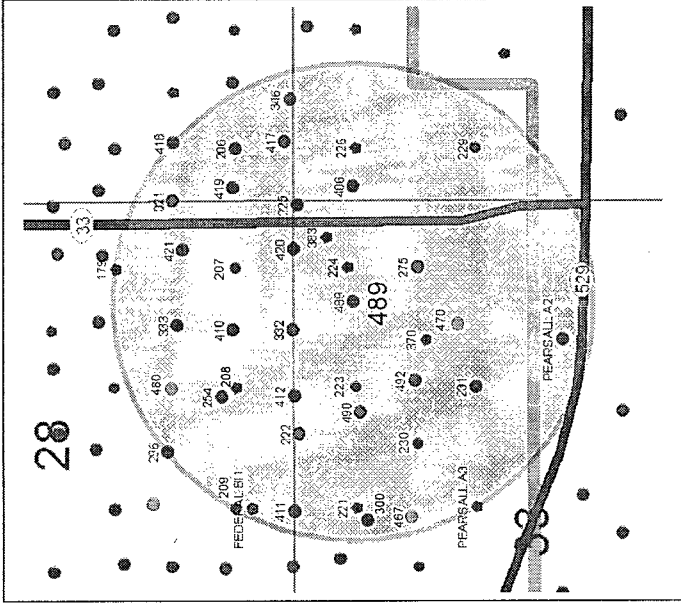
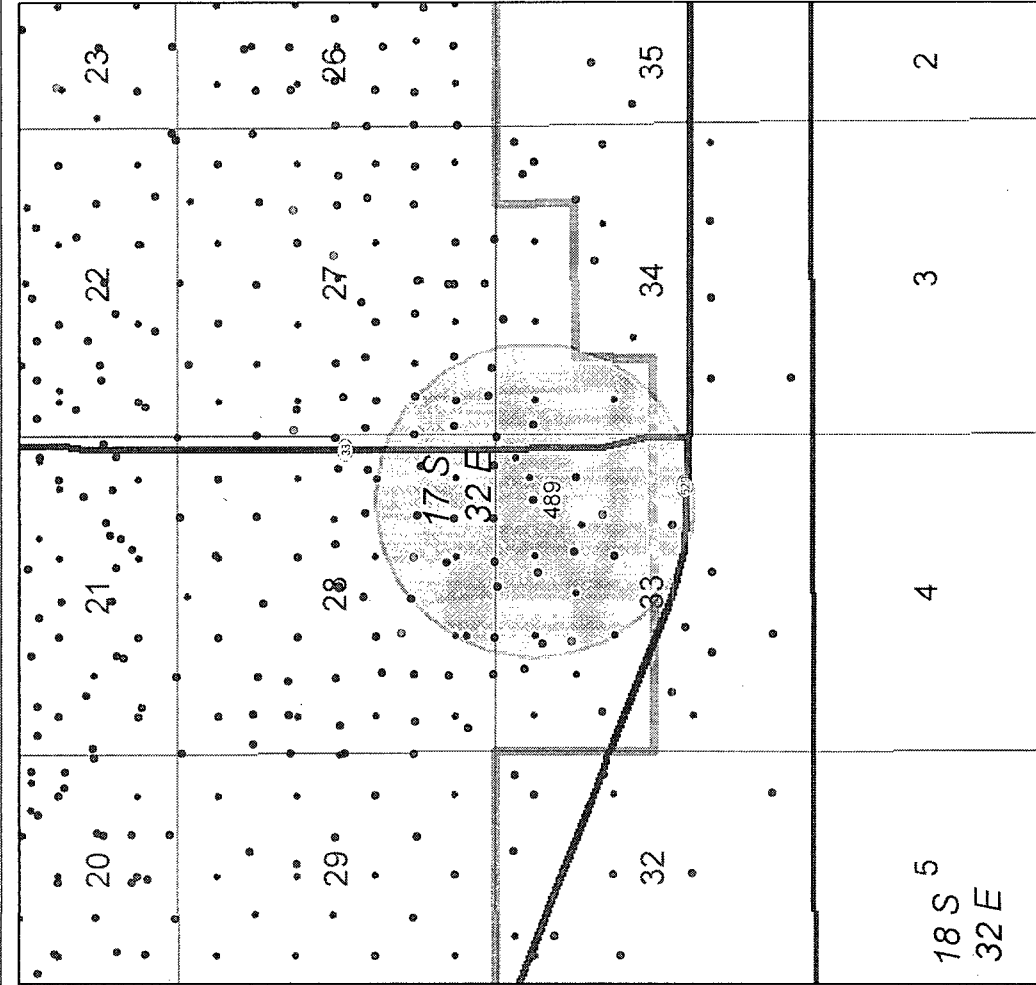
Lea County, New Mexico

MCA UNIT

MCA 480

API # 3002539766

Author: Charlie E. Augerman	Date: Oct-13-2010
Compiled by: Dac N. Pham	Scale: 1:25000
Project File: MCA_480_halfmile_1in2000FL.mxd	Proj: NME State Plane 1927



Lea County, New Mexico

MCA UNIT

MCA 489

API # 3002539432

Author: Charlie E. Angerman

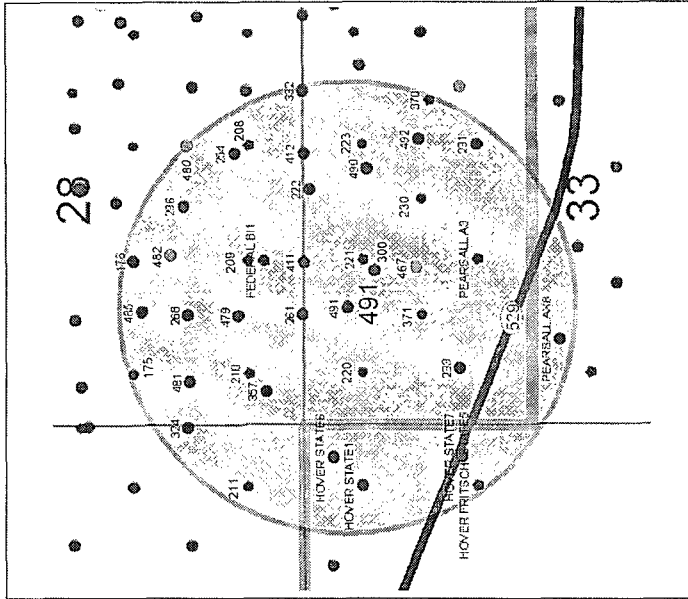
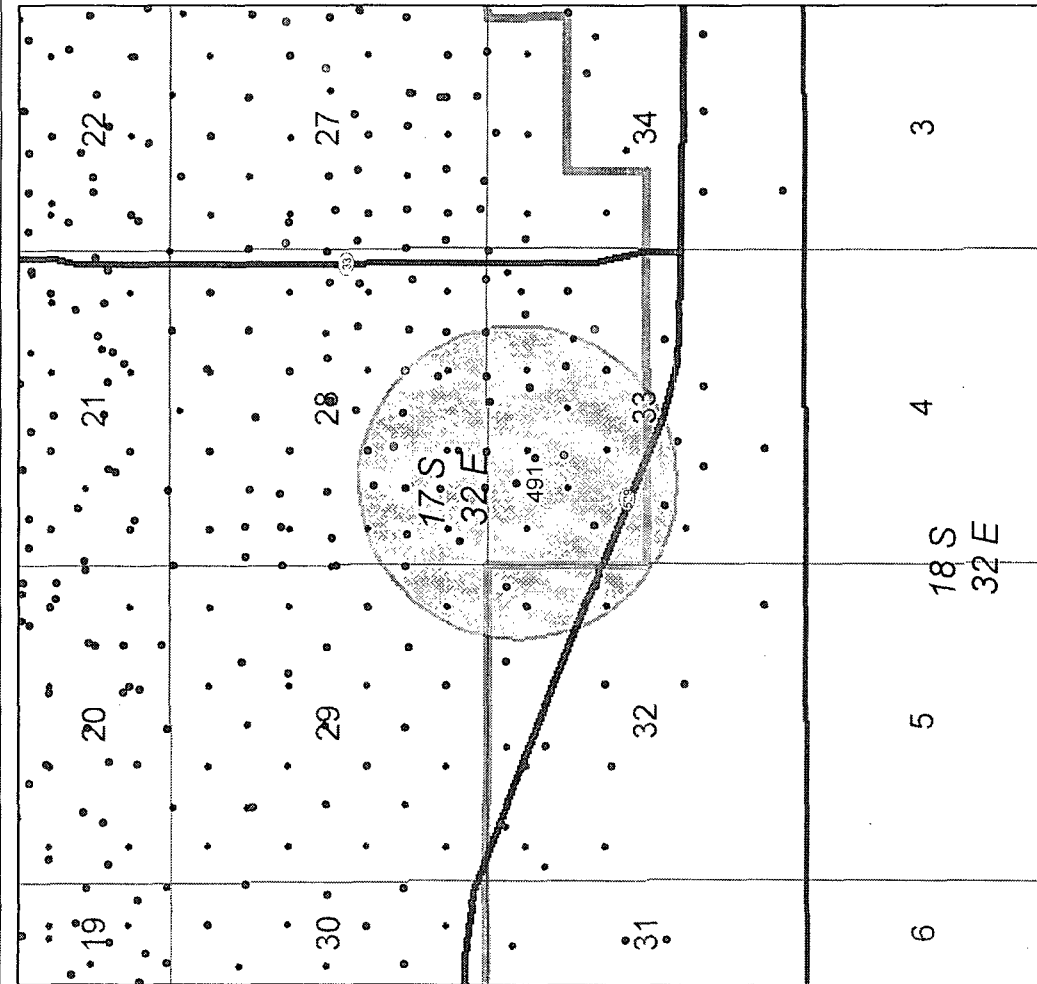
Compiled by: Dae N. Pham

Project File: MCA_489_Hellmire_1in2000R.mxd

Date: Oct-13-2010

Scale: 1:24000

Proj: NME State Plane 1927



ConocoPhillips

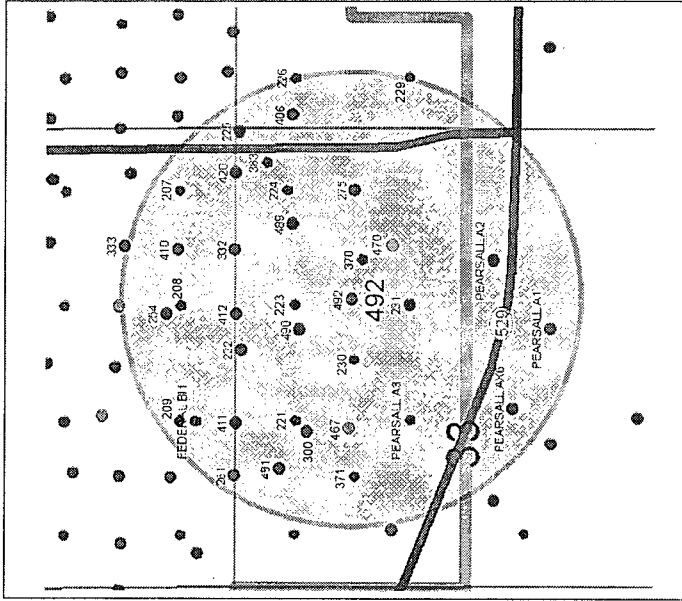
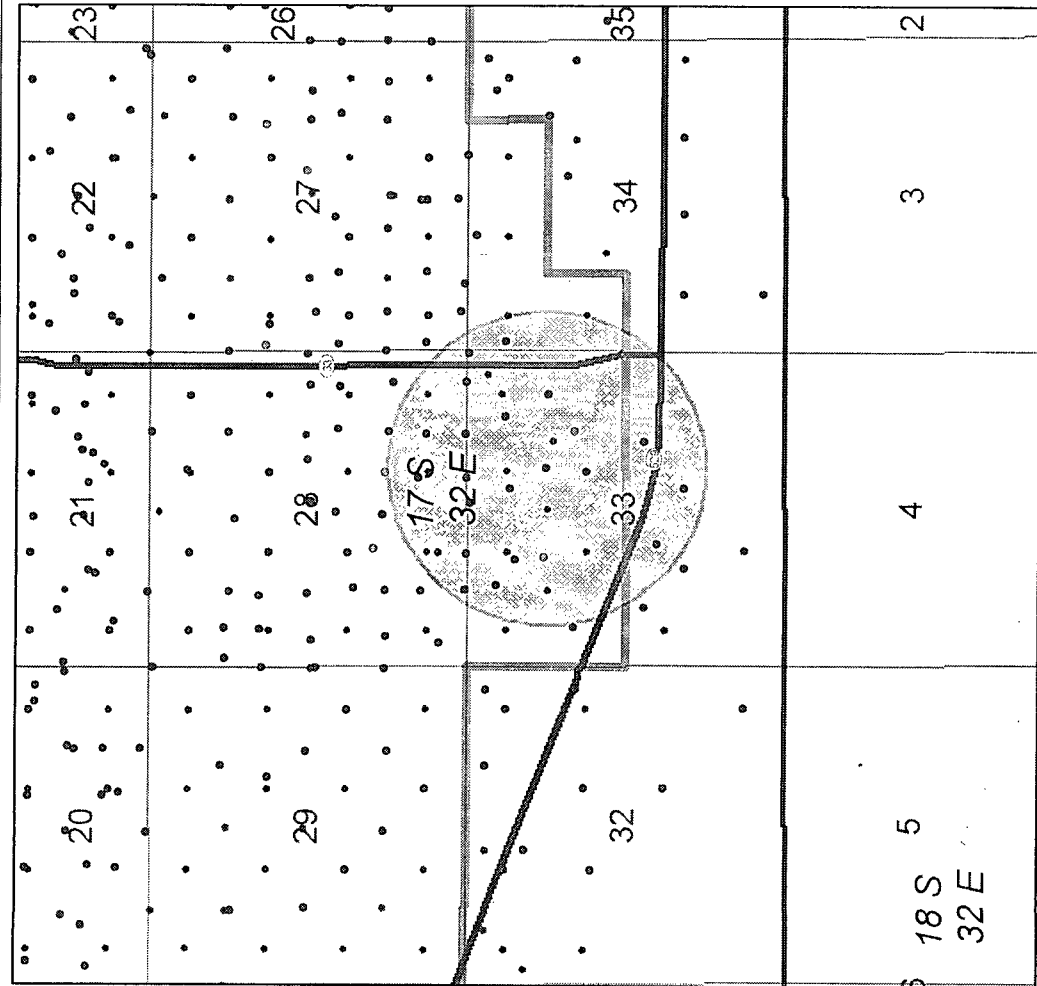
Lea County, New Mexico

MCA UNIT

MCA 491

API # 3002539322

Author: Charlie E. Angerman	Date: Oct-13-2010
Created by: Dan N. Pham	Scale: 1:24000
Project File: MCA_491_Halvella_1in2000.ctb	Proj: NME State Plane 1927



ConocoPhillips

Lea County, New Mexico

MCA UNIT

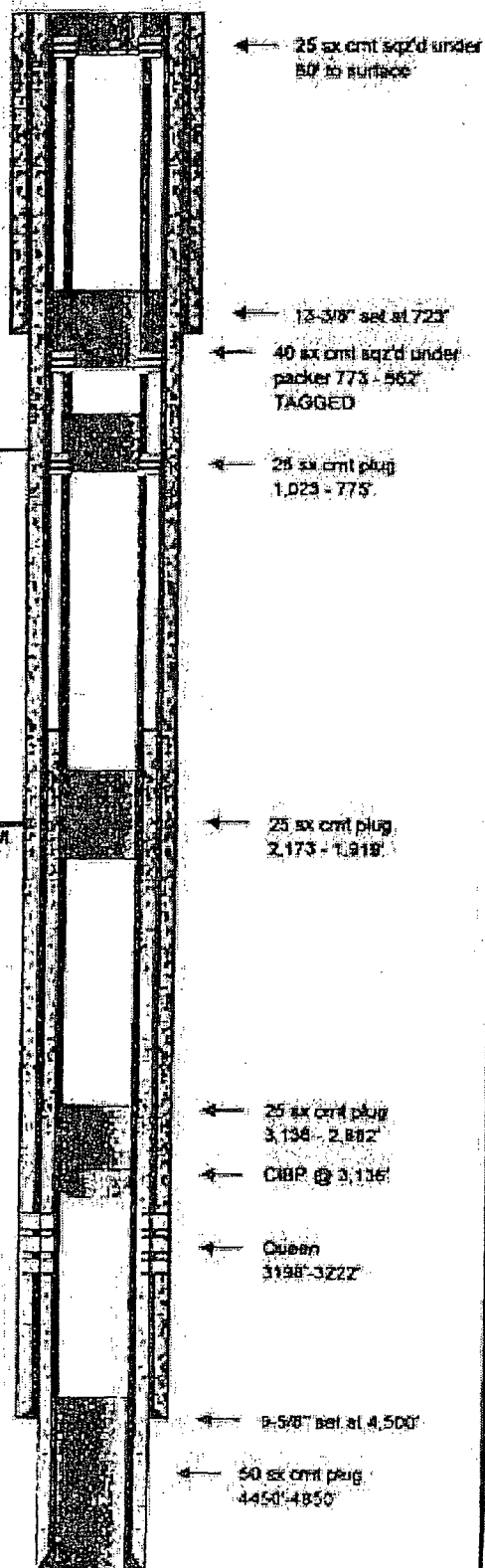
MCA 492

API # 3002539433

Author: Charlie E. Angerman	Date: Oct-13-2010
Compiled by: Das-N. Pham	Scale: 1:24000
Project File: MCA_492_Pathfile_1in2000Ft.mxd	Proj: NME State Plane 1927

Exhibit # 3

Exhibit # 4



Field Name:	Pearsall Queen		
County:	Lea	Well Type:	gas
State:	New Mexico	PBYD:	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 (Inches)	Depth (feet)	TOC (feet)	Cement (bags)	Hole Size (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 (feet)	Depth (feet)	Volume (bags)	Volume (cu ft)	
1 Cement-Class C - Balanced	4,450	4,850	50	66	
2 CIBP	3,136	3,138			
3 Cement-Class C - Balanced	2,882	3,136	25	33	
4 Cement-Class C - Balanced	1,819	2,173	25	33	
5 Cement-Class C - Balanced	775	1,023	25	33	
6 Cement-Class C - perf & sq'd	562 (tag'd)	773	40	53	
7 Cement-Class C - perf & sq'd	surface	50	25	33	

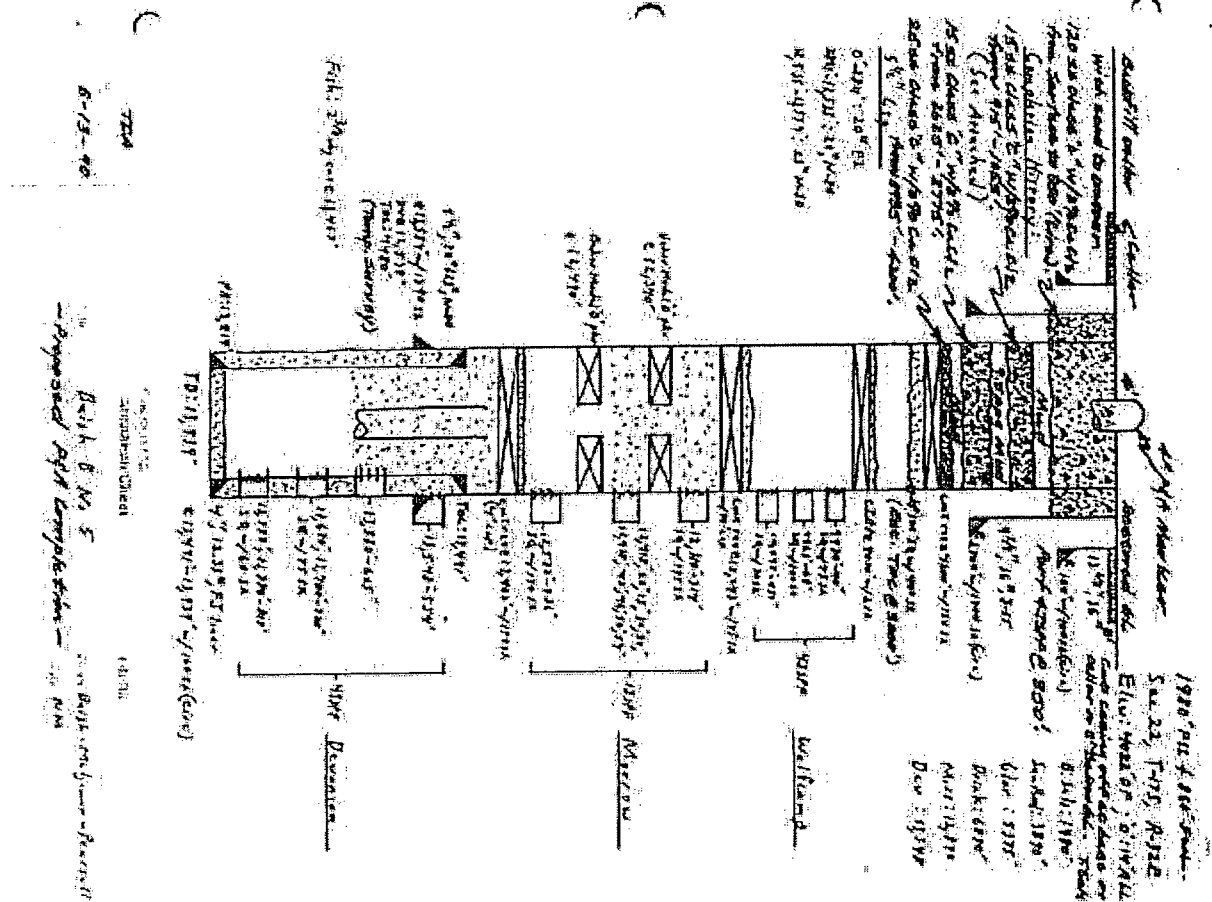
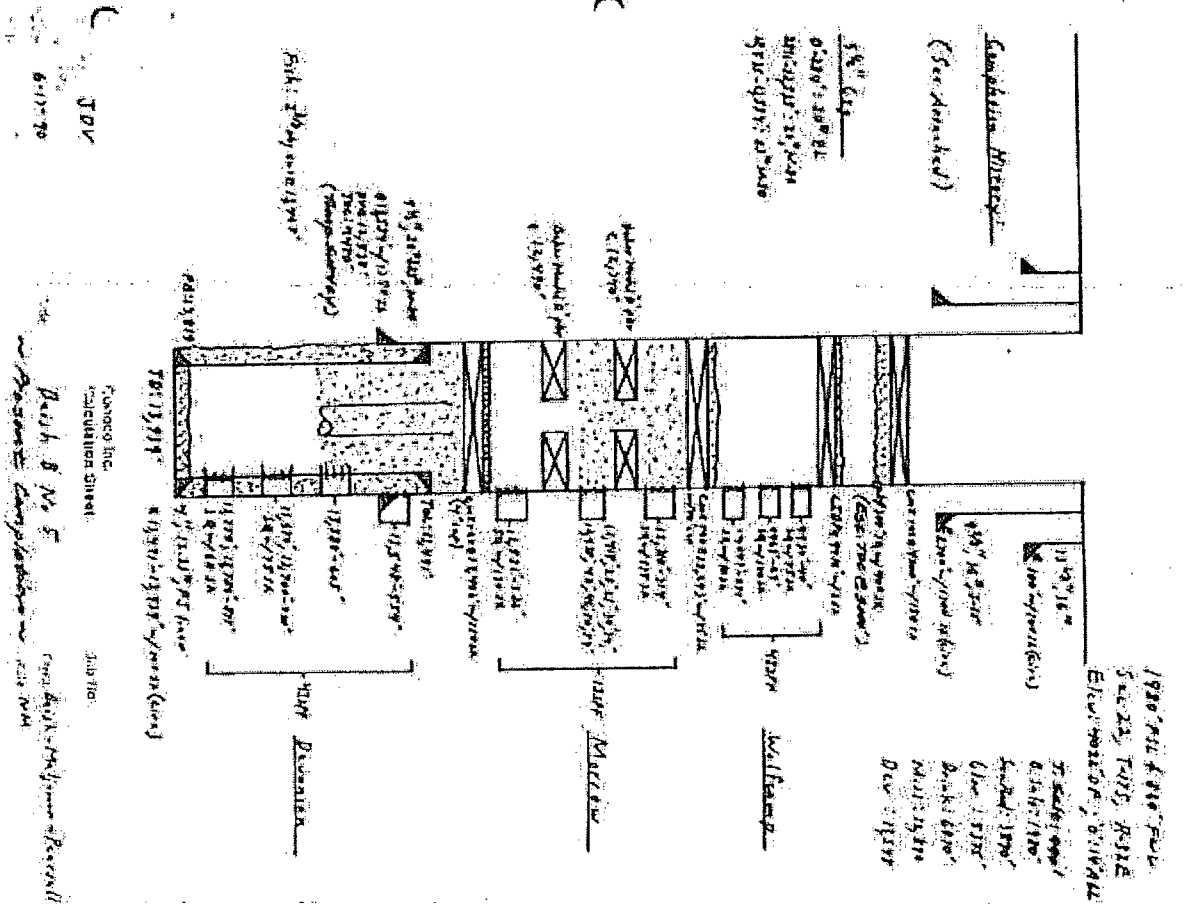
Perforations (ft)			
Formation	Top (feet)	Depth (feet)	
Queen	3,198	3,222	

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

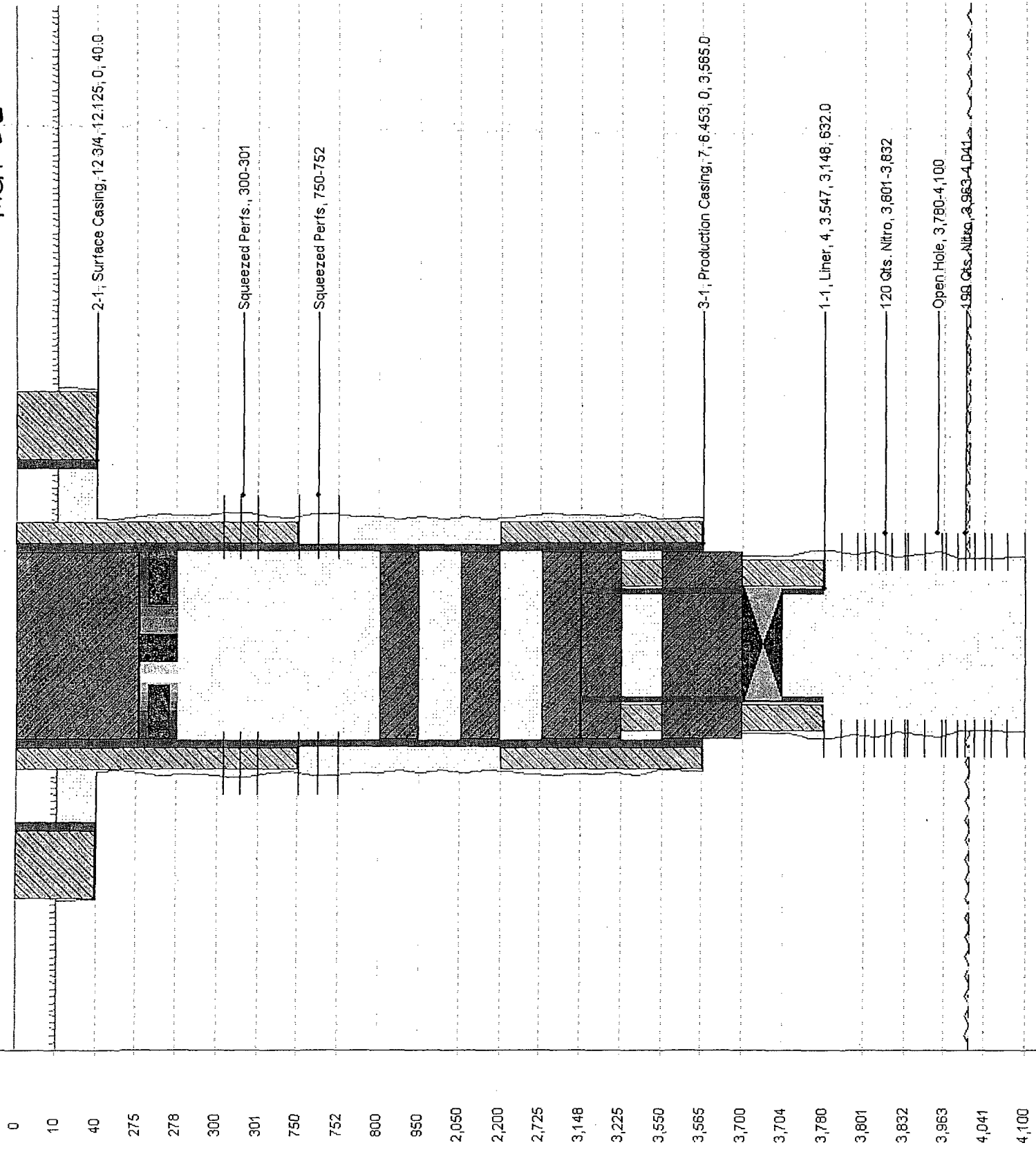
Comments:

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.

BAISH B #5



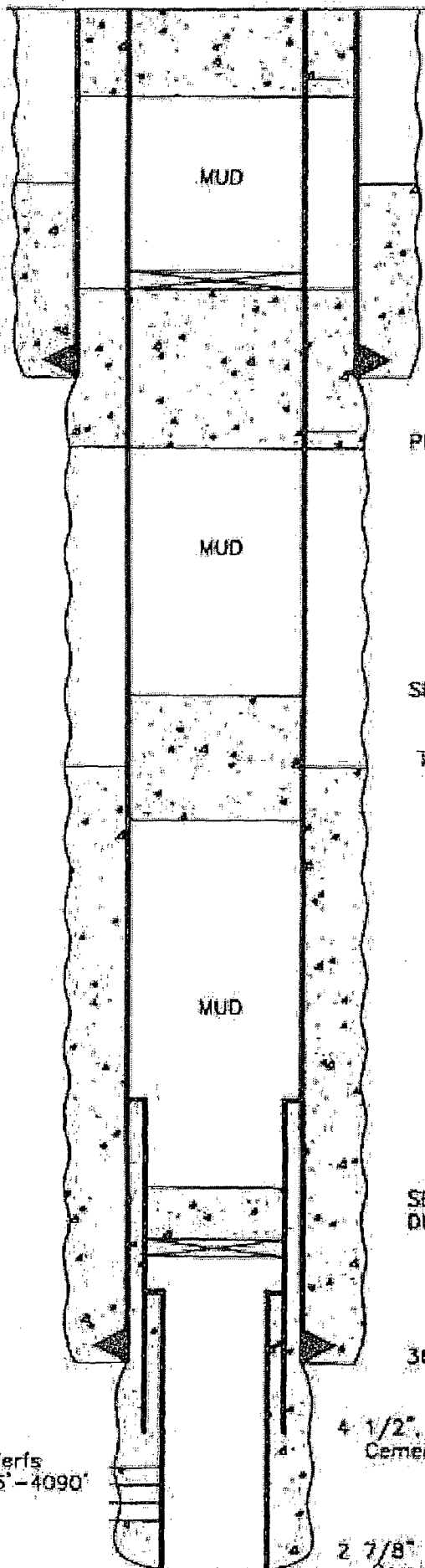
MCA 65



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

3/3/00

MCA 72



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

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

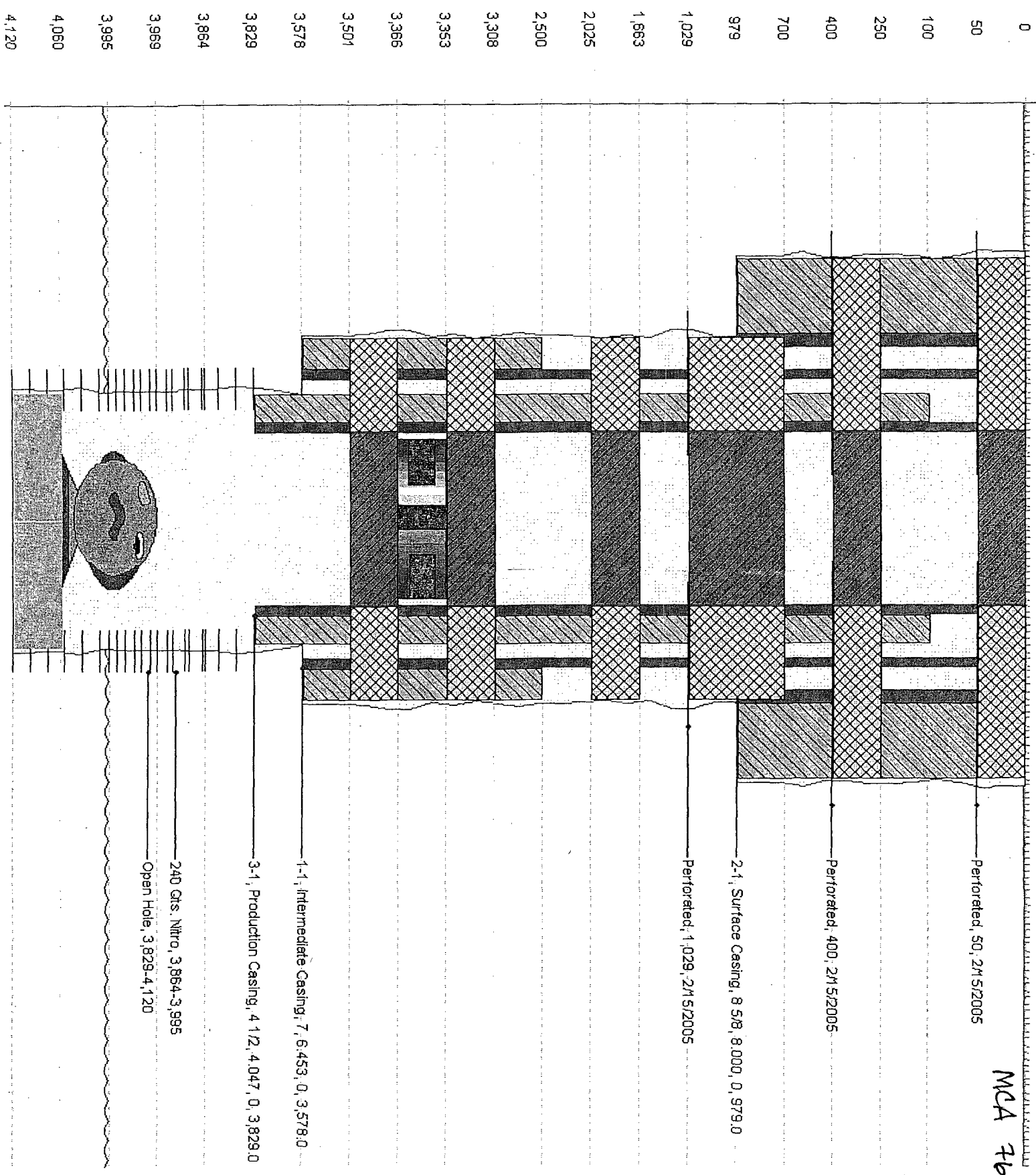
4 1/2", 9.5# Liner 3414'-3723'
Cemented w/50 sxs

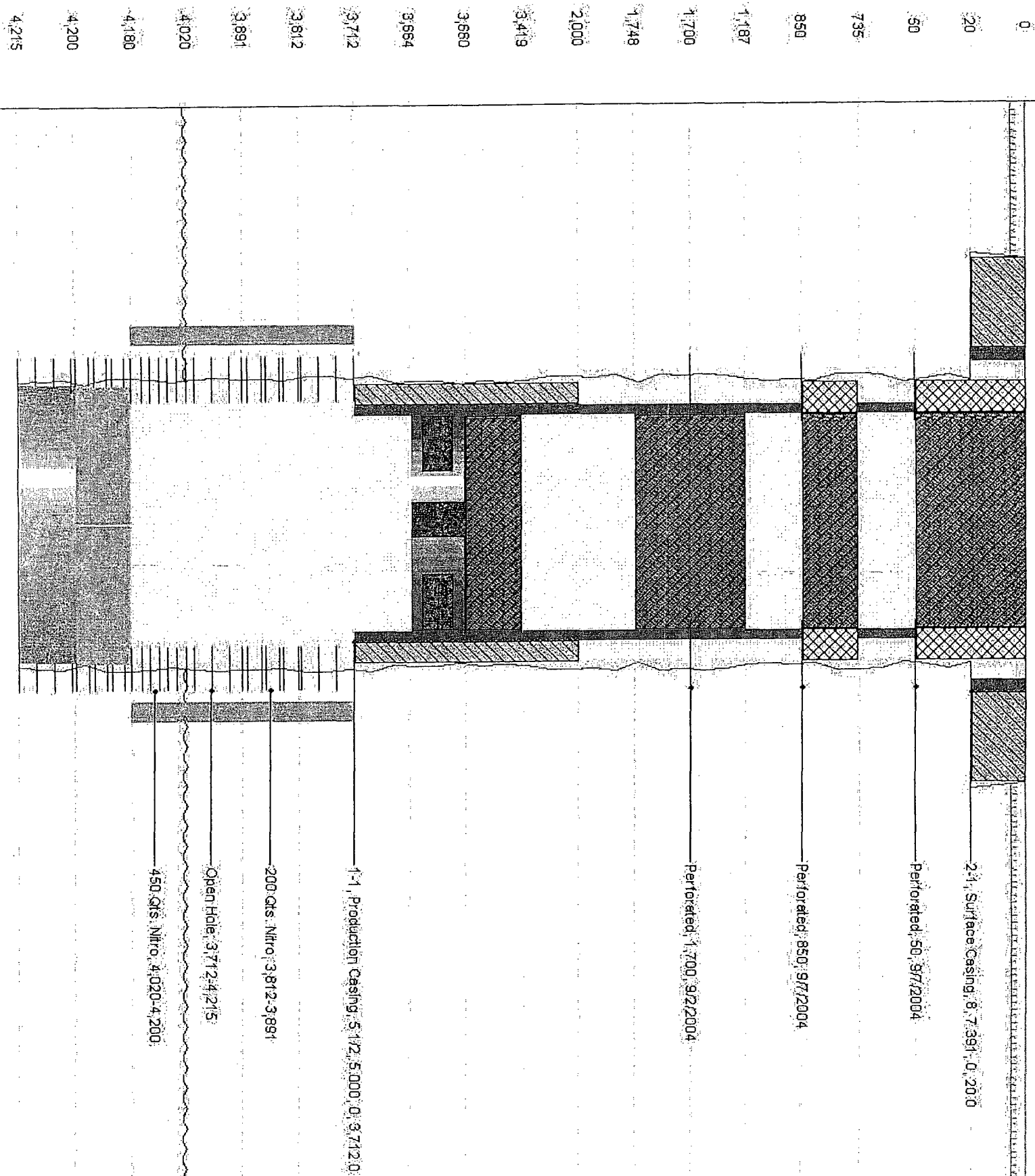
2 7/8" Fiberglass Liner 3579'-4098'
Cemented w/180 sxs

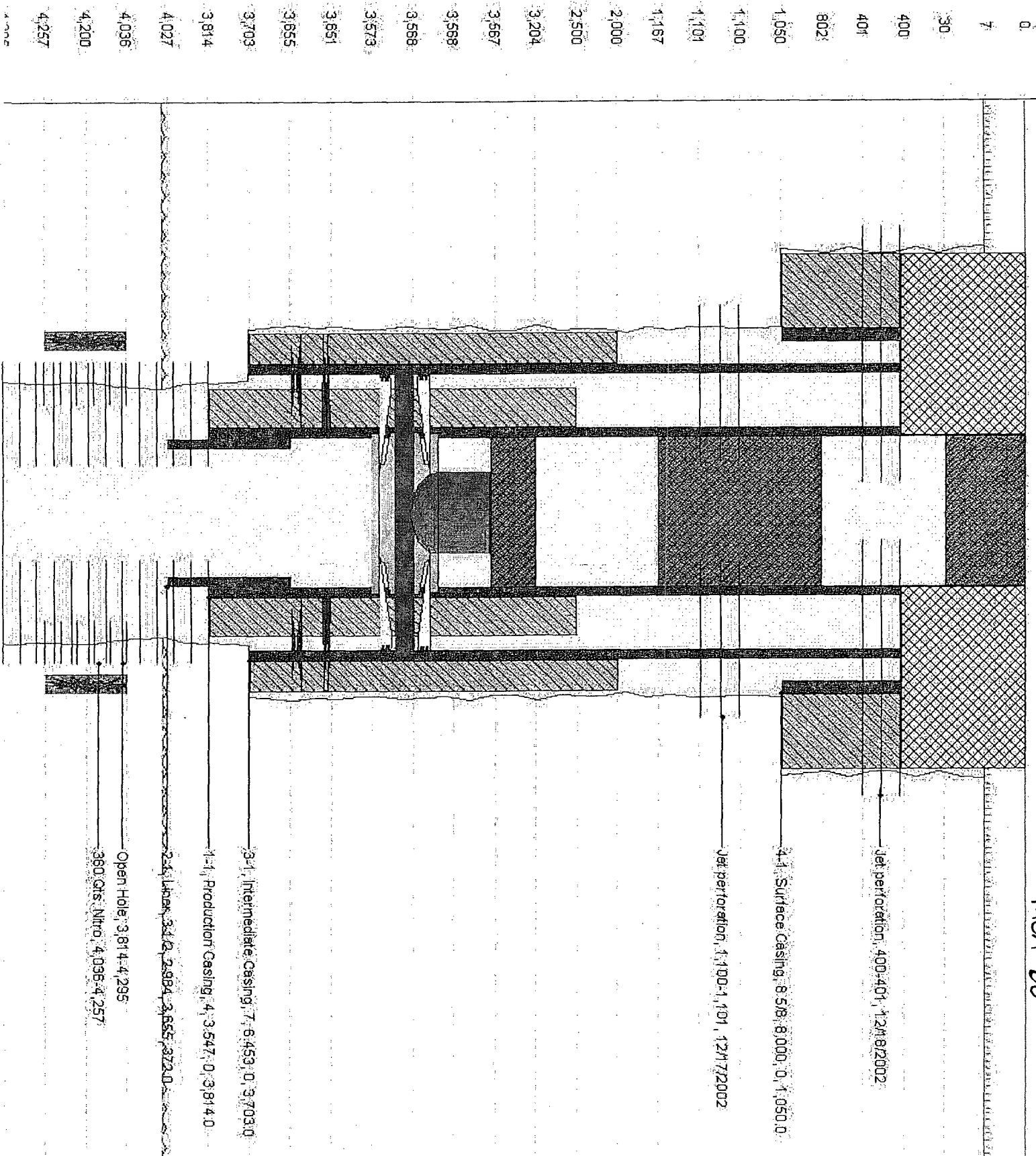
Perfs
3766'-4090'

T.O. @ 4102'

CONOCO, INC.
M.C.A. Unit #72
1980' FSL & 660' FWL
Sec. 22, T-17S, R-32E
Lea County, NM





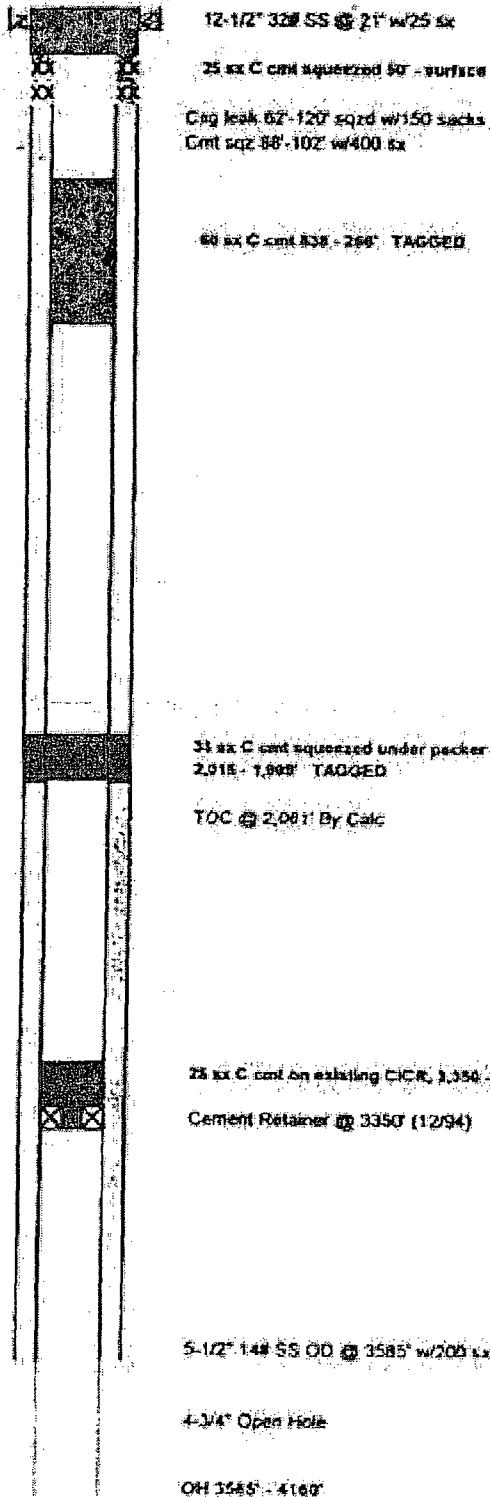


PLUGGED WELLBORE SKETCH ConocoPhillips Company - Permian Basin Business Unit

MCA 82

Date: 28-Sep-04

RKB @ 3985'
DF @ 3987'
GL @ 3981'



Subarea: Maljamar
 Lease & Well No.: MCA Unit No. 82
 Legal Description: 860' 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 09/08/04
 Drilled as Miller-A No. 5

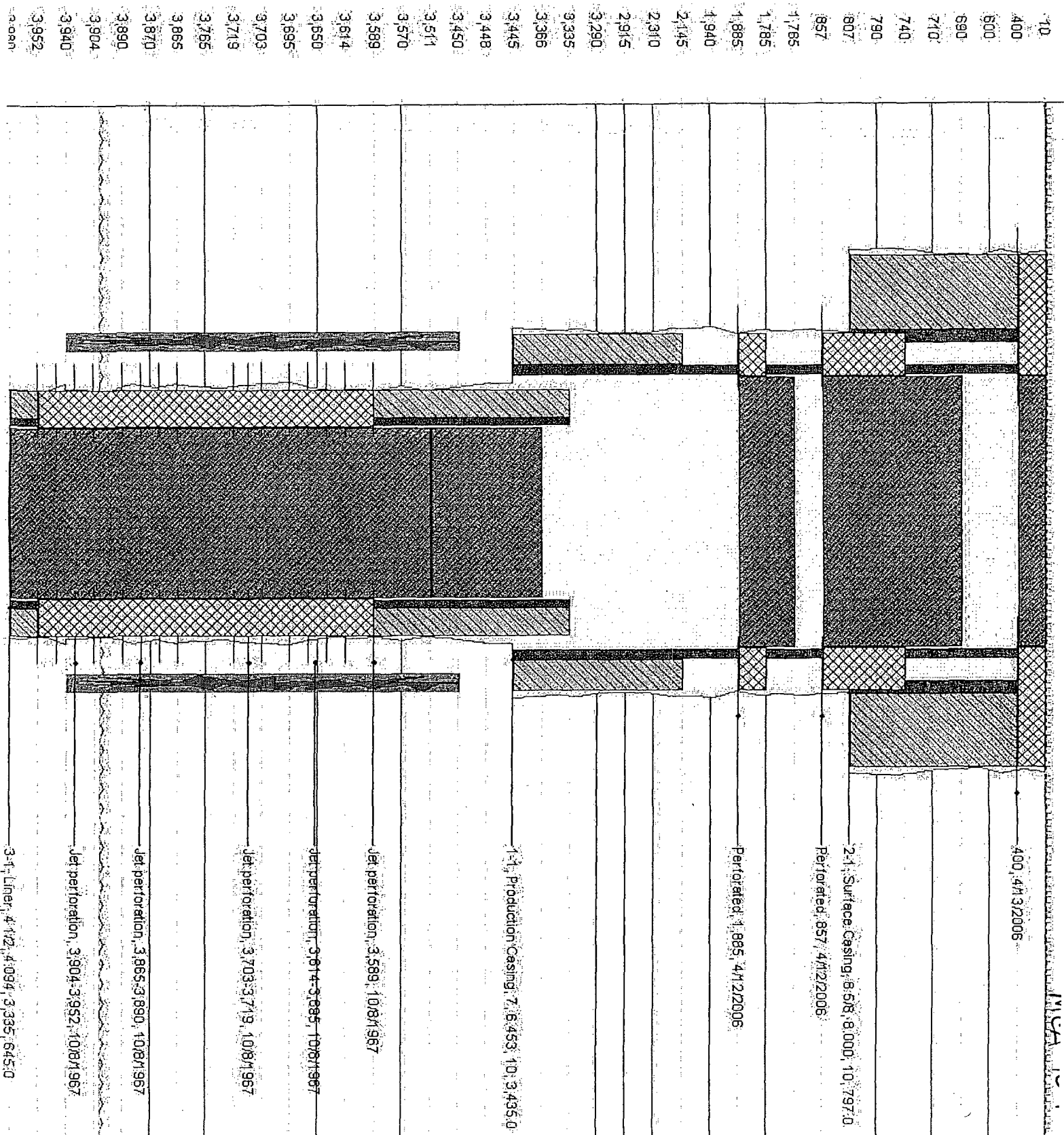
8/22/47 Deepen from 4065' to 4145'
 5/15/58 Cement plug 4058-4110 w/40 ex
 5/17/58 Cmt 30 ex 4058
 5/19/58 Cmt 40 ex 4083, TOC 4043
 6/20/68 CO and deepen 4-3/4" hole 4145-4160'
 6/23/68 Convert to water injection, Baker AD-1 @ 3562'
 Inject 750 BWPD @ 1300 psi
 2/28/85 Cmt squeezes 88'-102' w/400 ex, run PC tbq
 7/20/89 Casing leak 62' - 120' squeezed w/150 sacks
 Set cement retainer @ 3350', circ pk 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.

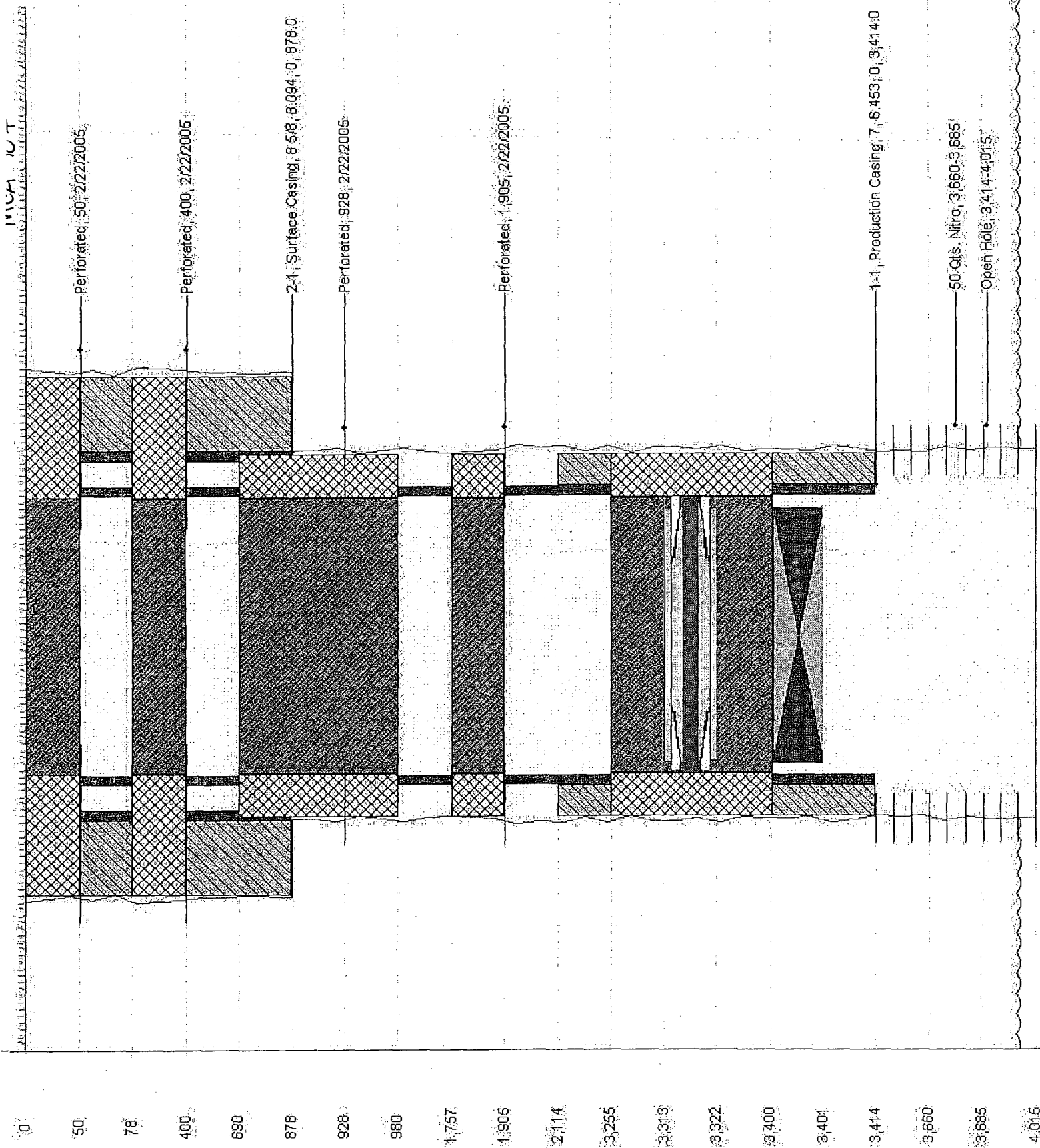
TRIPLE R
L.L. SERVICES INC.
NEW HAVEN, CT

ACTUAL PLUGGING PROCEDURE

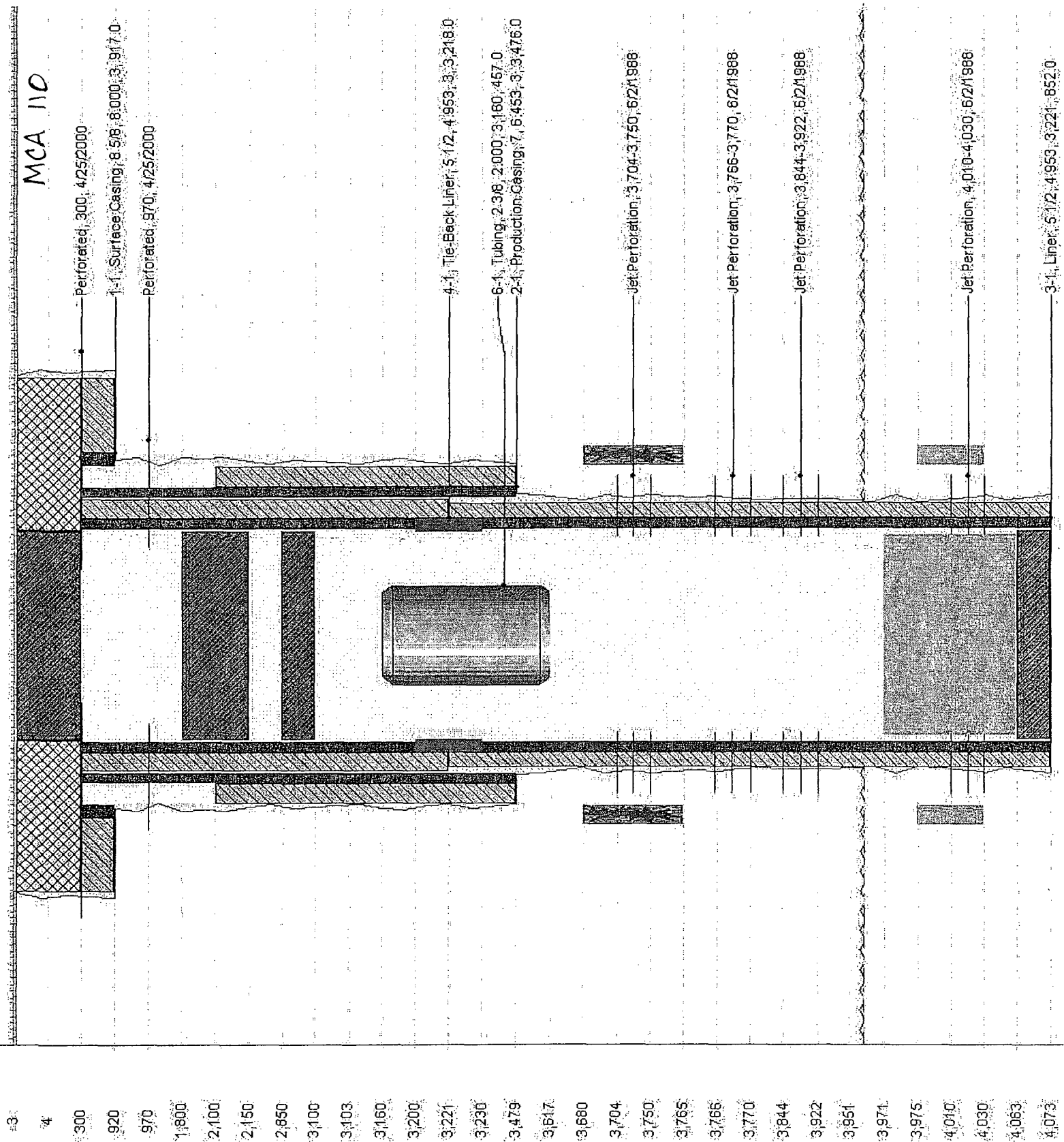
- 1) 25 ex C.cmt on existing CCR, 3,350 - 3,109'
- 2) 35 ex C.cmt squeezed under packer 2,015 - 1,908' TAGGED
- 3) 60 ex C.cmt 838 - 265' TAGGED
- 4) 25 ex C.cmt squeezed 50' - surface

PBD 3350'
OTD 4050'
RID 4160'





MCA 110



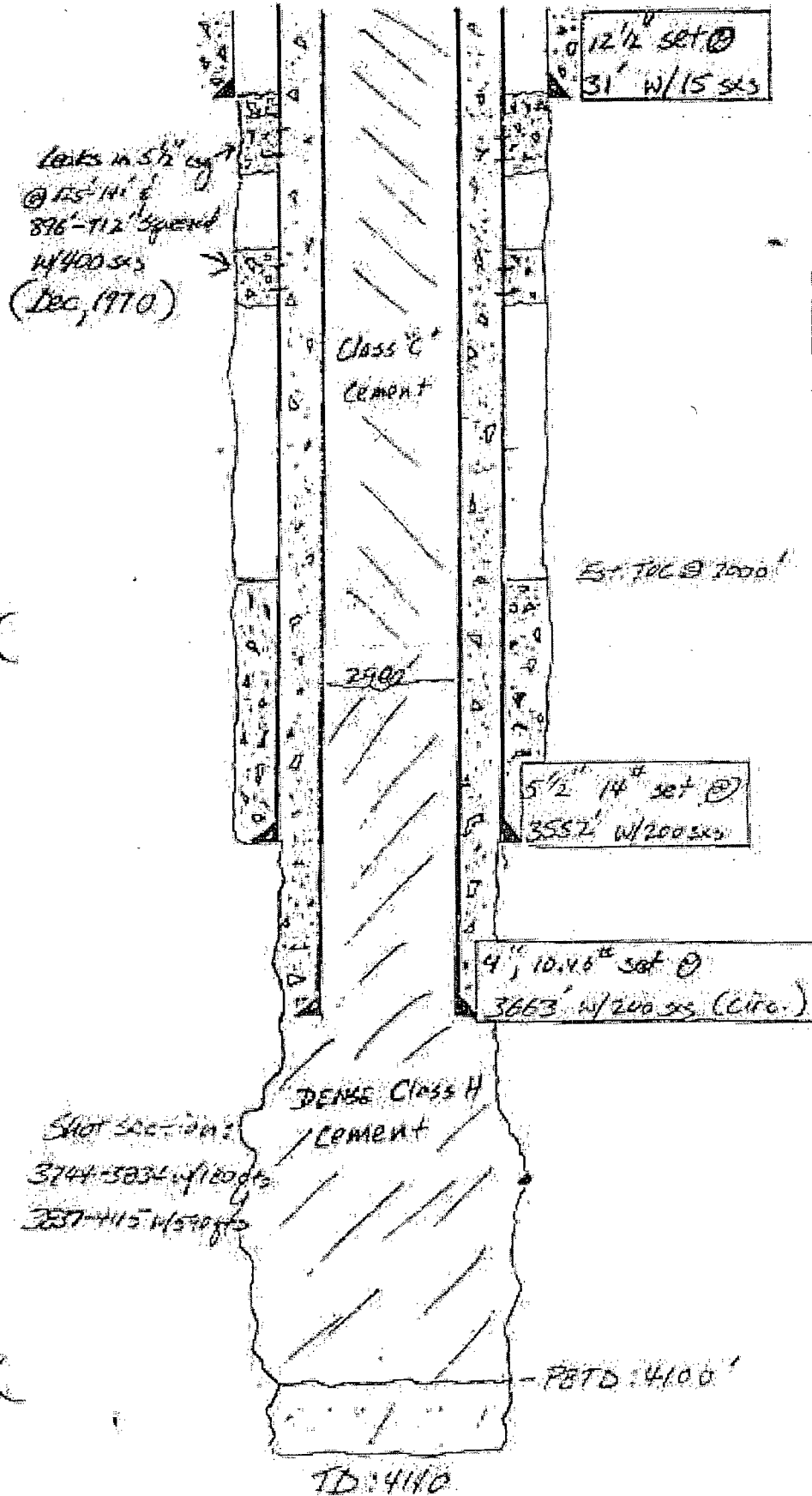
FOR

LOCATION

SUBJECT

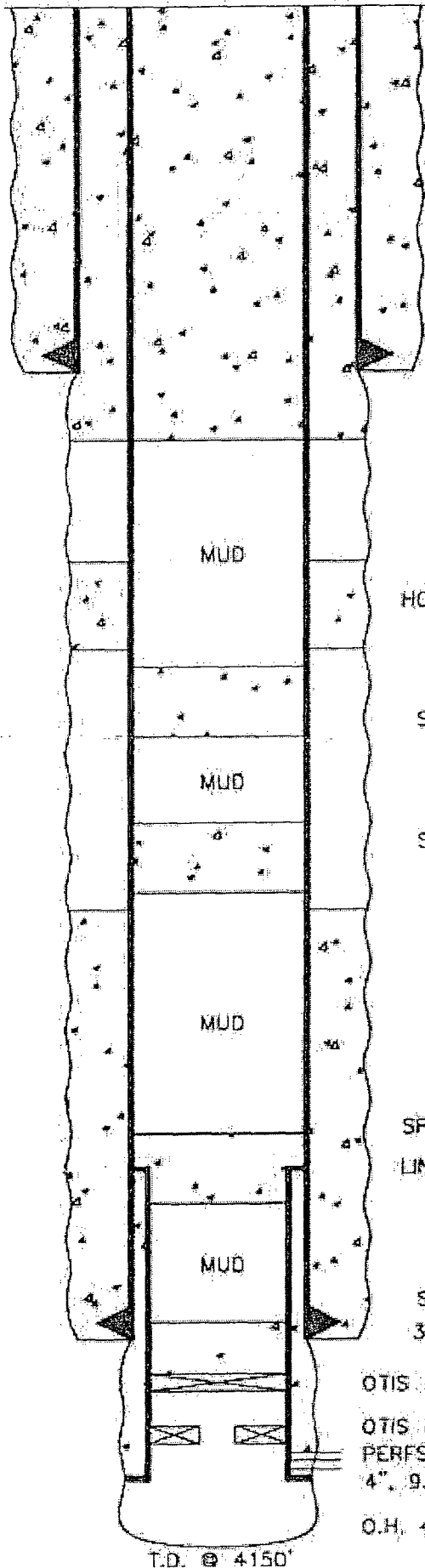
MCA 117

660' FNL, 1980 FFL 29-17-32



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' SQZ'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 SQZ'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 PACKER @ 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

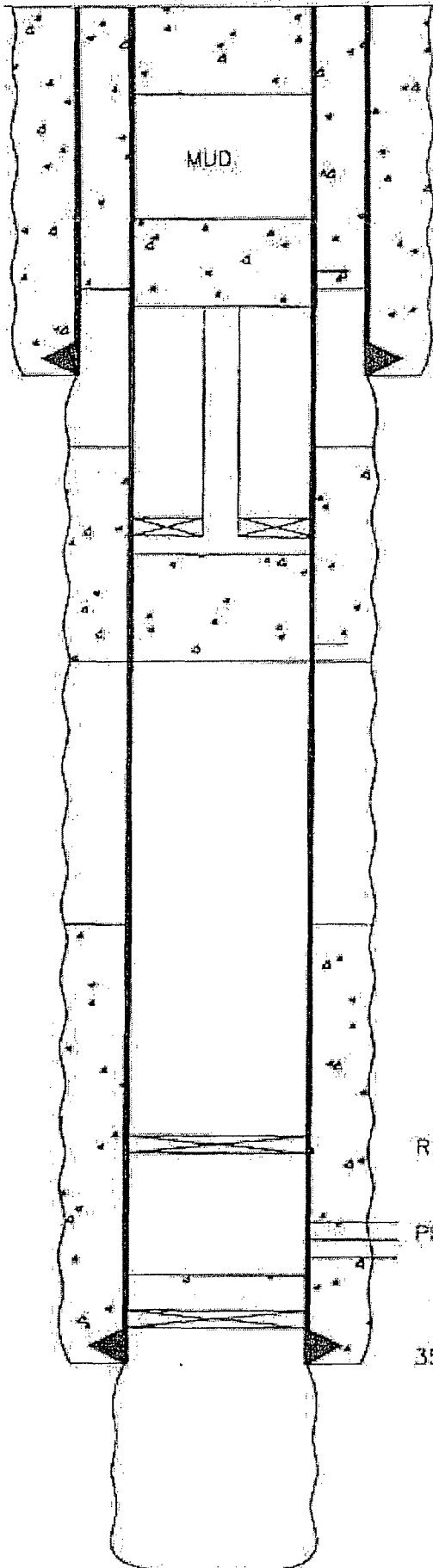
119' FNL & 660' FWL

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.O.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'

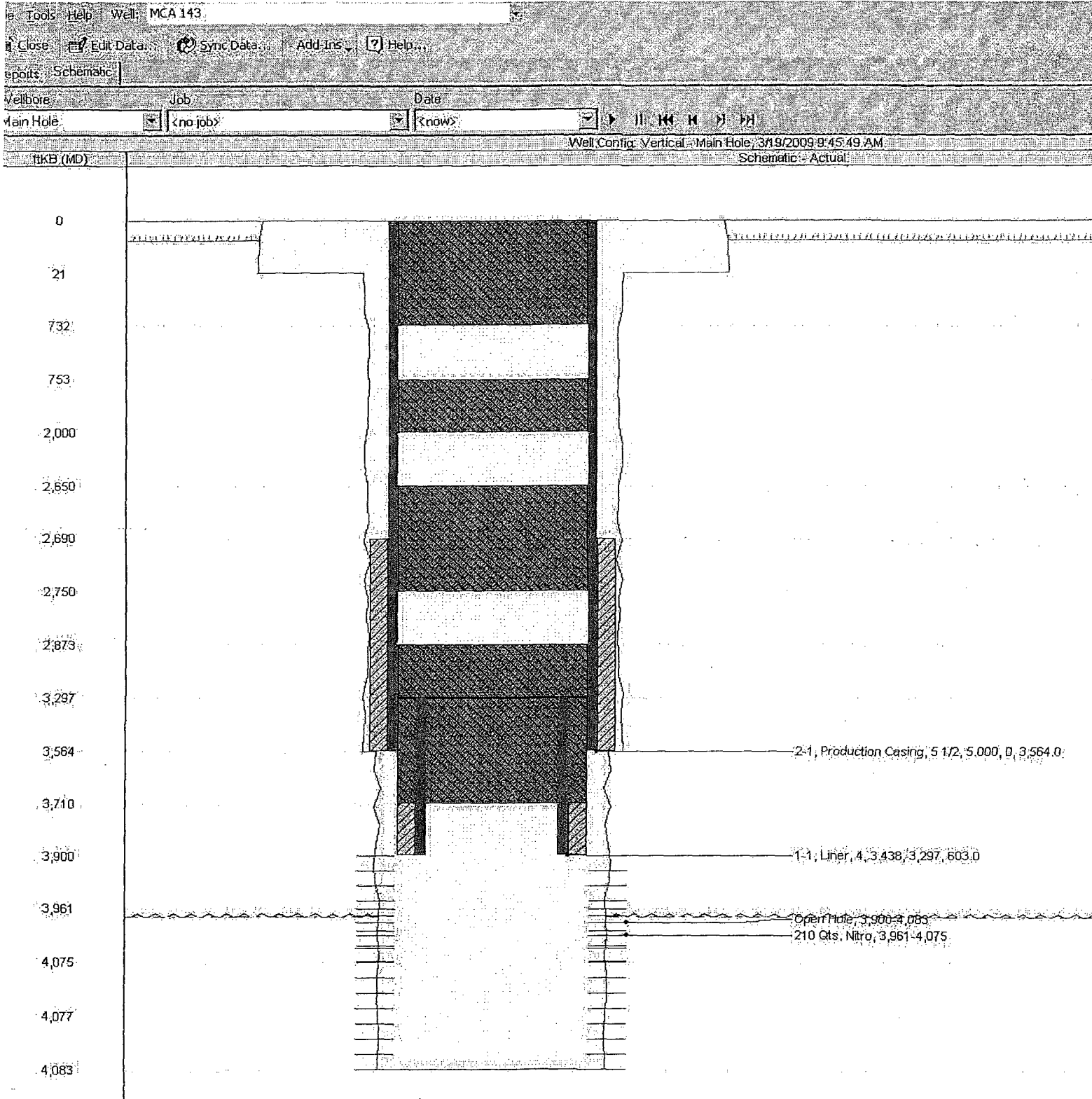
CONOCO, INC.

M.C.A. Unit #124

660' FNL & 1980' FWL

Sec. 26, T-17S, R-32E

MCA 143



PLUGGED WELLBORE SKETCH

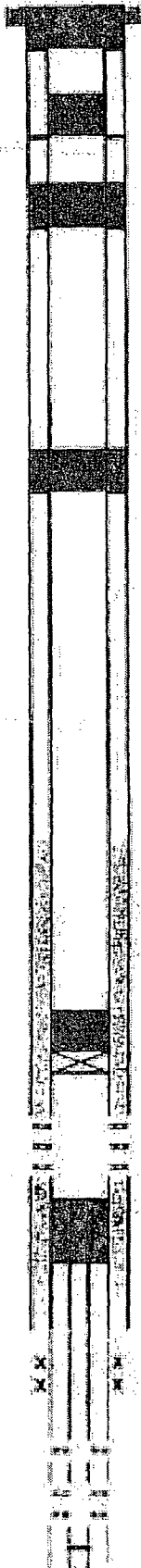
ConocoPhillips Company - Permian Basin Business Unit

MCA 147

Date: September 25, 2004

RKS #
DF # 3897
CL #

Subarea: Midamer
 Lease & Well No.: Queen-B No. 8 / (MCA Unit No. 147)
 Legal Description: 1987 FNL & 1987 FWA, SE4/4NW4 Sec. 27,
T-17-S, R-32-E N.M.P.M. Meridian
 County: Lee State: New Mexico
 Field: Midamer (BBSA)
 Date Spudded: May 19, 1942 IPP:
 API Number: 30-025-00719 403 BC, 0 SPW
 Status: PLUGGED
 Drilled as Balish "B" No. 8



12-1/2" OD @ 20' w/ 25 ex
 4" 25 ex C cmt 50' - Surface
 Port & Sqt.

28 ex C cmt 445' - 231' TAGGED
 (perforated at 400', no rate at 1,500 psi)

35 ex C cmt perforated & squeezed
 under packer 1,300 - 885' TAGGED

35 ex C cmt perforated & squeezed
 under packer 1,300 - 1,800' TAGGED

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

Tagged existing CBP @ 3,130', pumped
 28 ex C cmt 3,130' - 1,853'

CBP @ 3130' (400)

Queen

217B-3204 - 2 JSPF (500)

Cmt Rat @ 3130' w/57 ex below & 35 ex above
 Top Liner @ 3337'

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

3760' sqz w/200 ex TOC 3564'
 1890' sqz w/118 ex cmt
 4-3/4" Hole
 OH 3543' - 4150'
 Graveline Sh
 1856-34954 3012-3468
 3012-3468 3890-3902
 3995-4002 4010-4030 (266 holes) 10/09

Spot 30 ex cmt 4150' - 4037'
 CBP @ 4086' pushed down from 3800'
 Btm of Liner @ 4149'
 4" Liner 10.468 FL-45 sec 3337' - 4149' w/250 ex

FOOT 3130
 DTD 3508
 MTD 4140

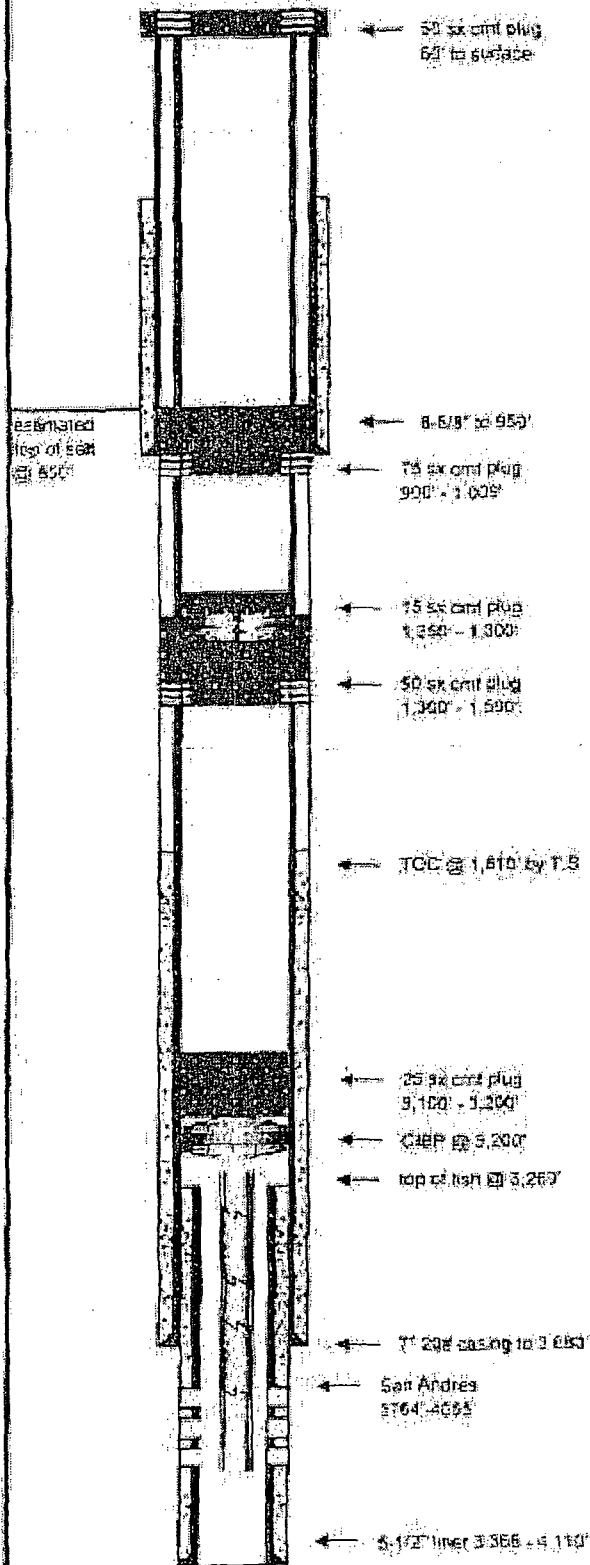
09/27/04

Located leak in csg between 60 and 80' from surface
 Cut casing @ 120', ran 10" 5-1/2" 14# J-55 csg w/Bowen
 csg bowl, latch onto csg @ 100', let w/500 OK. Welded band
 on 5-1/2" csg.

ACTUAL PLUGGING PROCEDURE

- 1) Tagged existing CBP @ 3,130', pumped 28 ex C cmt 3,130' - 2,883'
- 2) 35 ex C cmt perforated & squeezed under packer 1,300 - 1,800' TAGGED
- 3) 35 ex C cmt perforated & squeezed under packer 1,000 - 885' TAGGED
- 4) 28 ex C cmt 445' - 231' TAGGED (perforated at 400', no rate at 1,500 psi)
- 5) 30 ex C cmt perforated & squeezed 50' - surface

MCA 174



Field Name:	Maljamar	Well Type:	Oil
County:	Lea	Depth:	4,110
State:	New Mexico	Drilling Commenced:	
RRC District:		Drilling Completed:	
Section:	20	Date Well Plugged:	
Block:		Longitude:	
Survey:	T-17-S; R-32-E	Latitude:	
		Freshwater Depth:	
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	3,368	175	

Proposed Plugs

Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)
1 CIEP	3,200	3,200		
2 Cement-Class C - Balanced	3,100	3,200	25	14.8
3 Cement-Class C - Sqz/Retamer	1,300	1,500	50	14.8
4 Cement-Class C - Balanced	1,250	1,500	15	14.8
5 Cement-Class C - Sqz/Packer	900 (log)	1,009	75	14.8
6 Cement-Class C - Sqz/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	850

Comments

Fish is 25 ft 2-7/8" tubing and mud anchor, top at 3,259'

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

TRIPLE N
SERVICES INC.
MCKINNEY, TX

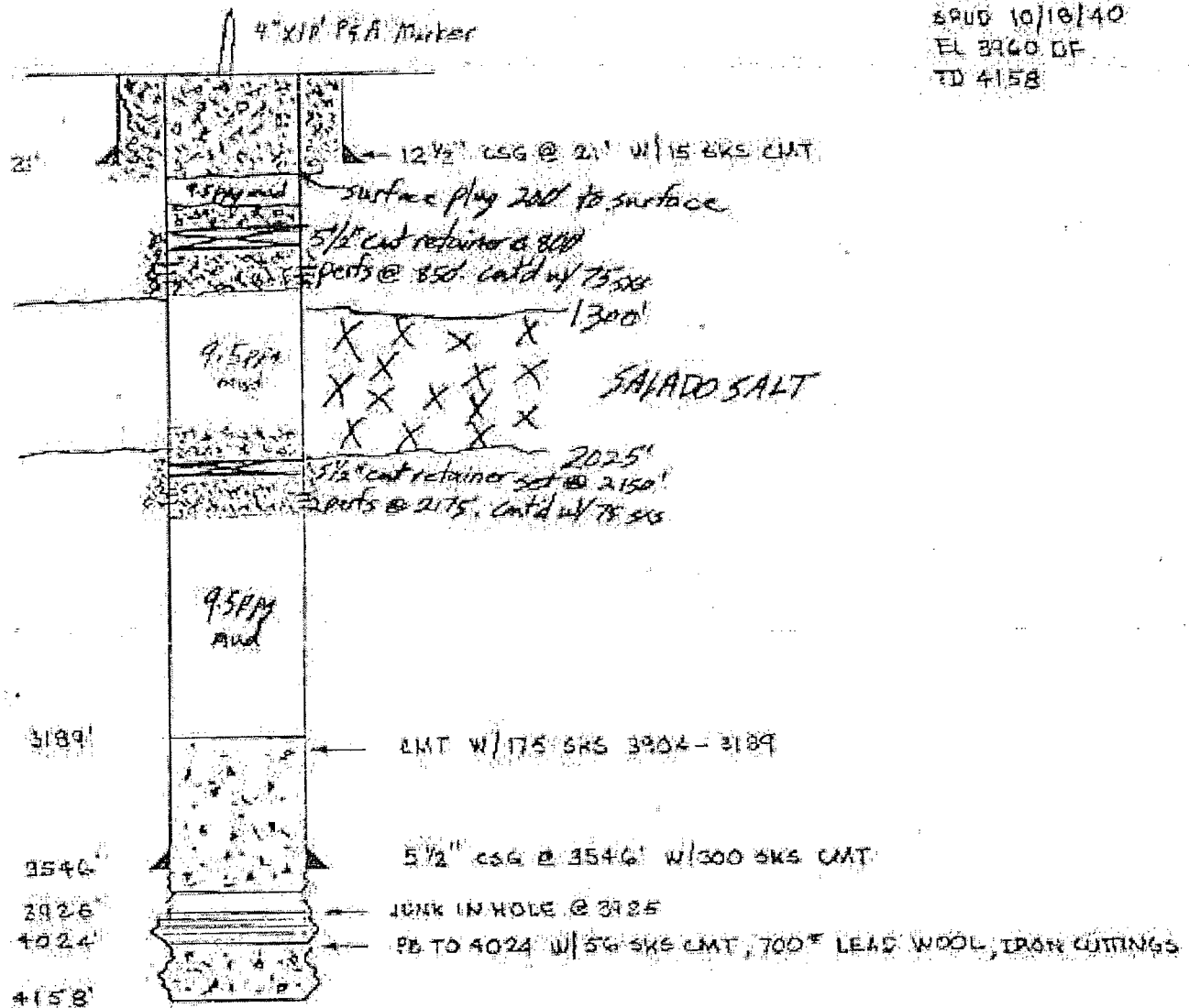
P&A WELLBORE SKETCH

MCA 178

1920 FSL & 1930 FEL
SEC 28, T17S, R32E

TEMP. ABAND.
9/5/72

SAND 10/10/40
EL 3940 DF
TD 4158



PAST HISTORY

10/16/57 - SAND FRAC'ED

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

MCA 179 P&A

1930 FSL, 660' FEL
28-17-82

12 1/2" SET
W/150 SXS @ 22'
TOC 80'
cement 7.9
7.0

⑥

50' squeeze perfs

⑤

cement retainer @ 800'

④

850' squeeze perfs

1295'
SALT
TOC 2100'
2125'

CEMENT

③

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

5 1/2" SET @ 3212'
③ 3568'

②

cmt retainer @ 4-3700' (optional)

4" 10.46" SET
W/250 SXS @ 3756'

①

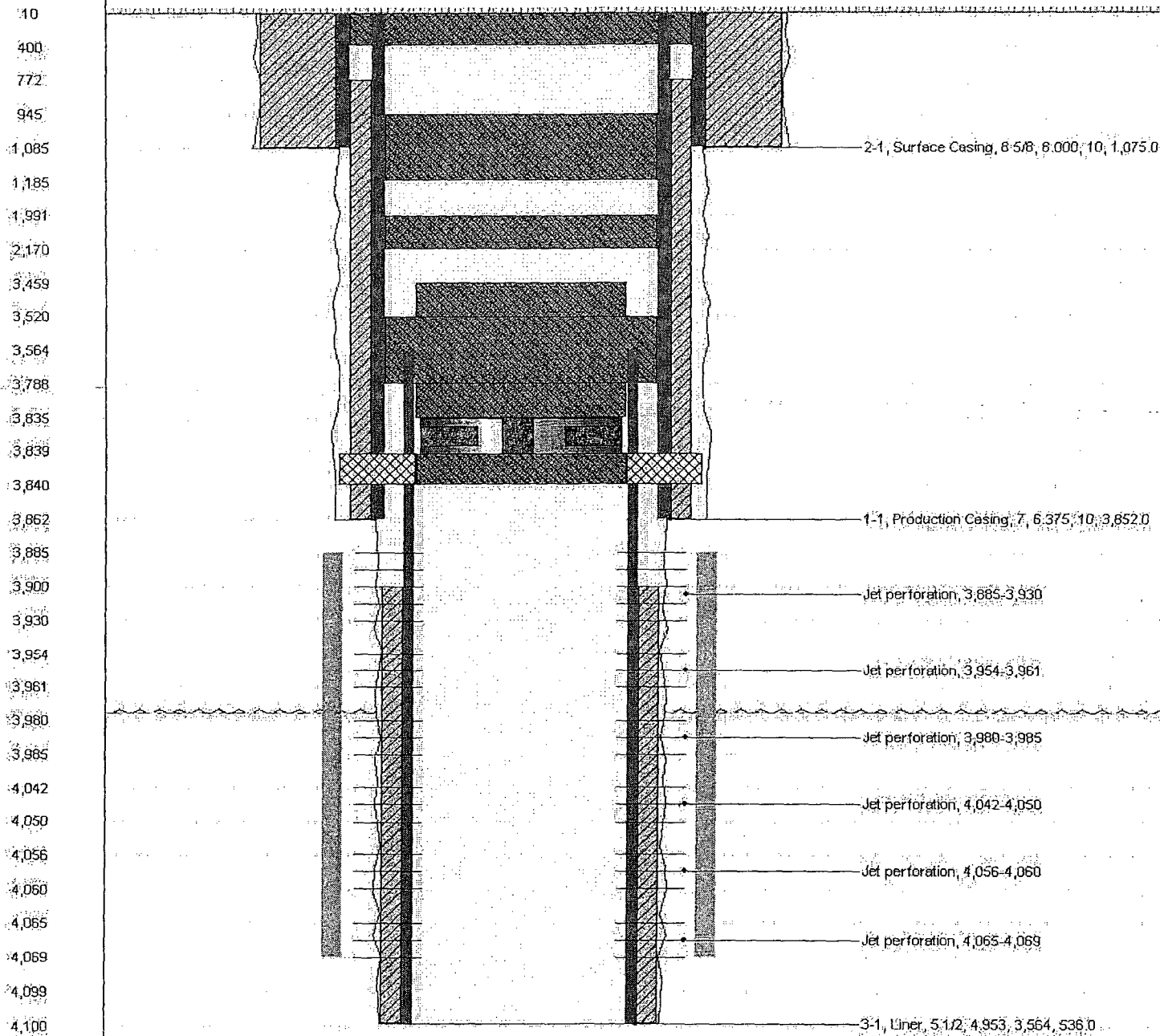
CEMENT
(400 SXS)
(Class H)

open hole cement plug 400 sxs Class H cement

400 sxs last down on depth

TD 4123'

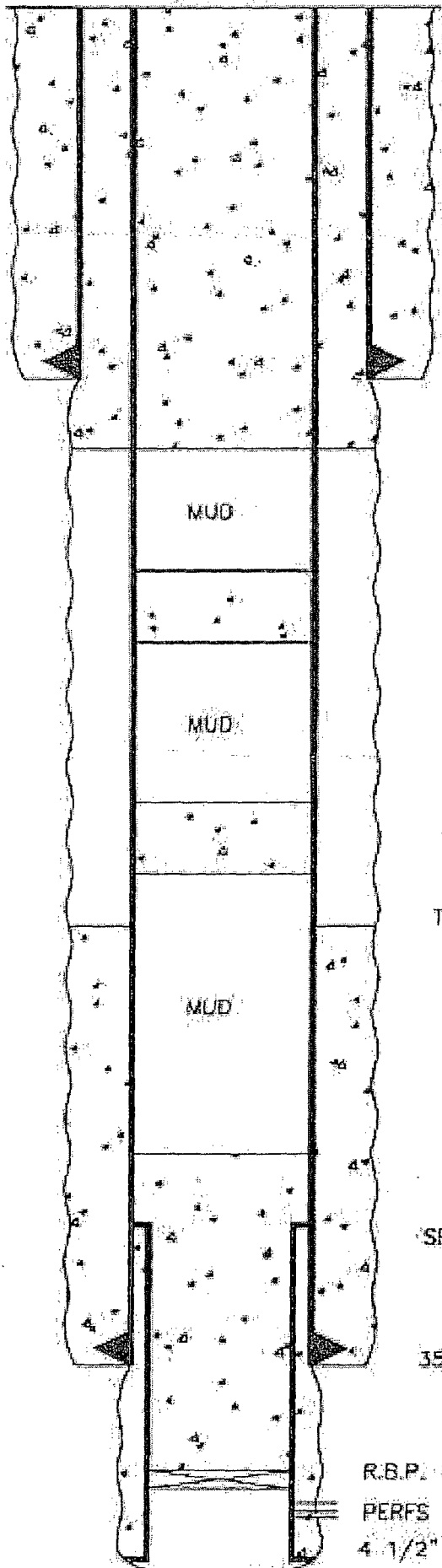
MCA 182



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.D.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'

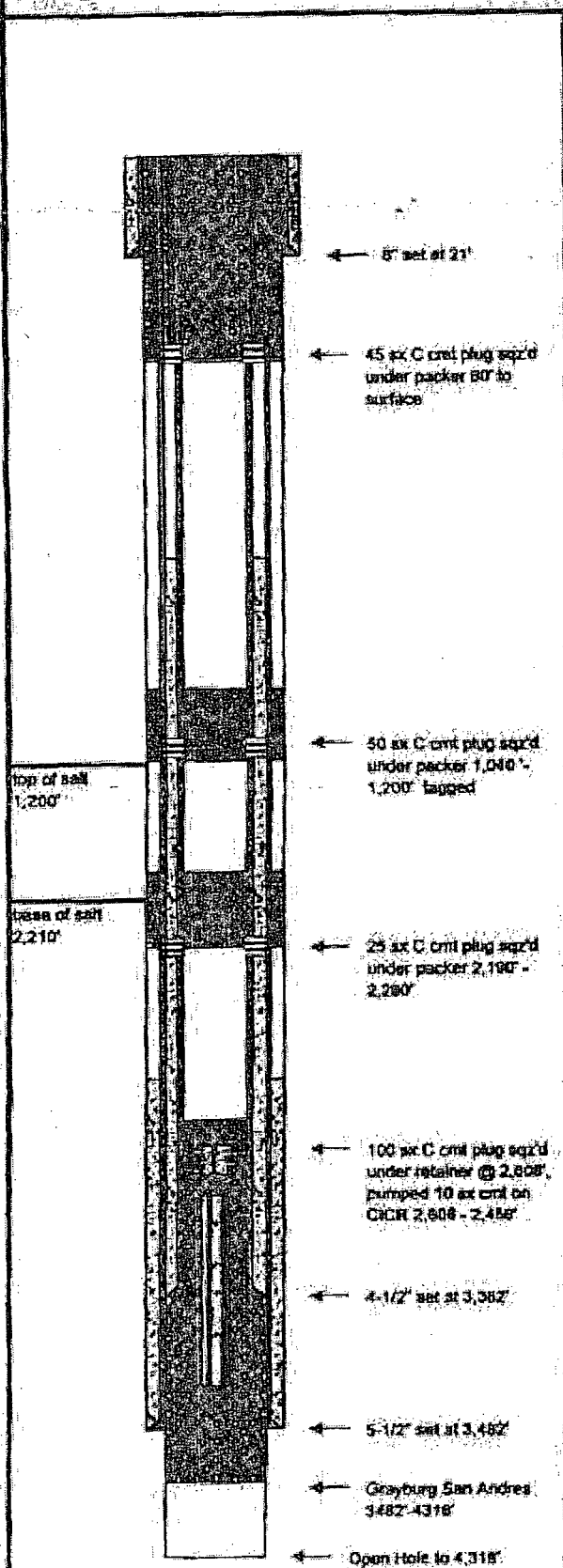
CONOCO, INC.

M.C.A. Unit #186

1980' FSL & 660' FEL

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

Lea County, NM



Field Name:	Majamar/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 8, 2004
Survey:	T-17-S, R-32-E	Longitude:	
		Latitude:	
		Freshwater Depths:	
API #:	30-025-00708	Salt Section:	1,200 - 2,210'
Lease or ID:	LC 058699Y		

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

MCA 201

RKB @ 3957
 OF @ 3956
 GL @ 3947

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

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



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

CSG LEAK 104' TO 907'
 SQZ'D W 173 SX

80 ex 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'

80 ex C cmt 1,237 - 1,137', perf & sqz, TAG

75 ex C cmt 2,230 - 2,130', perf & sqz, TAG

CRBP @ 2,230'

Base Salt @ 2,210'

TOC @ 2,300'

TBC & RODS LEFT IN HOLE F/ 2,245 - 3,985'

6-3/4" Hole

4-1/2" Hole

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

OH 3895' - 4310'

PSTD @ 2230'
 OTD @ 4136'
 NTD @ 4310'

Simulation History

Interval	Date	Type	Gals	Lbs. Sand	Max Press	IRP	Max Rate
	10/8/48	Shot 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	1900	
4005-4133	8/14/71	Trid Prod Wtr	20,000	30,000	3500	1500	13.9
	9/12/99	Set RBP @ 3863', csg leak 104' to 907'					
		Squeeze w/273 sacks cement, retrieve RBP					
3895-4310	9/13/99	Frac	543 Bbls	35,600			16.0
	10/11/05	Casing leak 856' to 882'					
	10/27/05	Set CRBP @ 2230' - 2235'					
	10/28/05	Tubing leak in hole from 2245' to 3985'					
		Rods left in hole 2257' to 3985'					
		TEMPORARILY ABANDONED					

NOTE:

Removal of rods and tubing is required by NMOC prior to any plugging operation. There is approximately 1825' of rods and 1915' of tubing remaining to be recovered.

TRIPLE N
 SERVICES INC.
 HOLDING LTD.

PROPOSED PLUGGING PROCEDURE

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

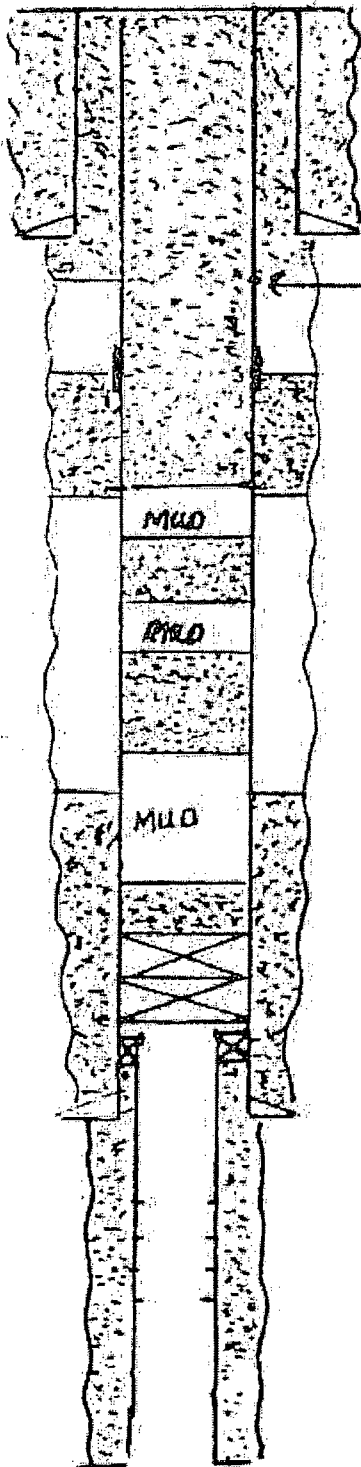
Capacities

4-1/2" 9.5# csg:	10.960 ft/m	0.0912 ft3/m
5-1/2" 14# csg:	7.2990 ft/m	0.1370 ft3/m
7" 20# csg:	4.3960 ft/m	0.2273 ft3/m
8-5/8" 24# csg:	2.7670 ft/m	0.3576 ft3/m
8-5/8" 28# csg:	2.8530 ft/m	0.3505 ft3/m
10-3/4" 40.5# csg:	1.8150 ft/m	0.5828 ft3/m
7-7/8" openhole:	2.9565 ft/m	0.3362 ft3/m
12-1/4" openhole:	1.2218 ft/m	0.8185 ft3/m

Formation Tops:

Top Salt 1187'
 Base Salt 2210'

MCA 202



8 1/8" 22' w/ 25545 cmt

BAD CASING AT 30' ± SQUEEZE w/ 450 S4S TO SURFACE

(YEAR 1985 AT 30' DOWN FROM SURFACE

5 1/2" DOWNEN CASING Patch 96) 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'

T.O. BEHIND 5 1/2" CASING 2400' EST.

Spot 25 S4S 3150' - 2900'

C.T.B.P. 5 1/2" 3150'

R.B.P. 5 1/2" 14 3152'

Sliver Top 4" 3157'

T.O. 5 1/2" 3486'

Perfs 4022' - 4272'

4" T.O. 4285'

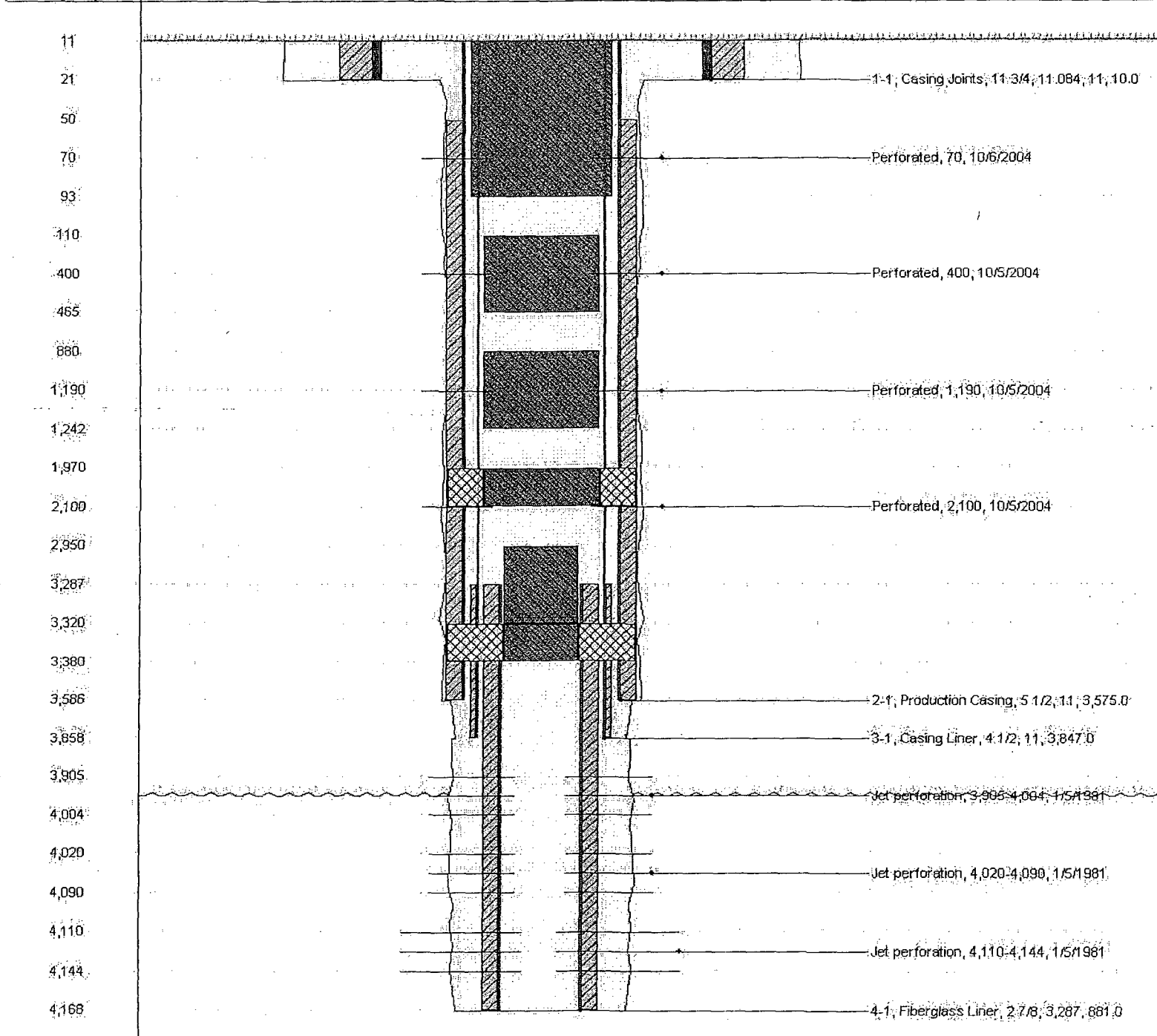
COROCO INC.

MCA Unit 202

SEC. 26 T. 17S, R 32E

LEA County NEW MEXICO

MCA 207



2
9
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 125' to surface

30 sx squeezed into holes @ 28'-30'

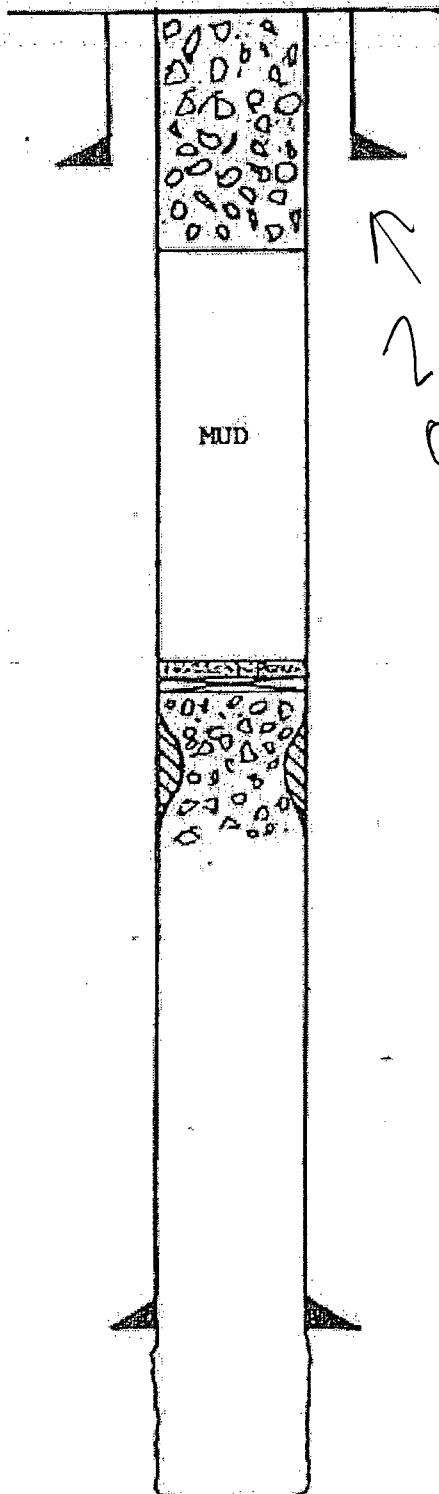
Salt zone approx. 1050'-2300'

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

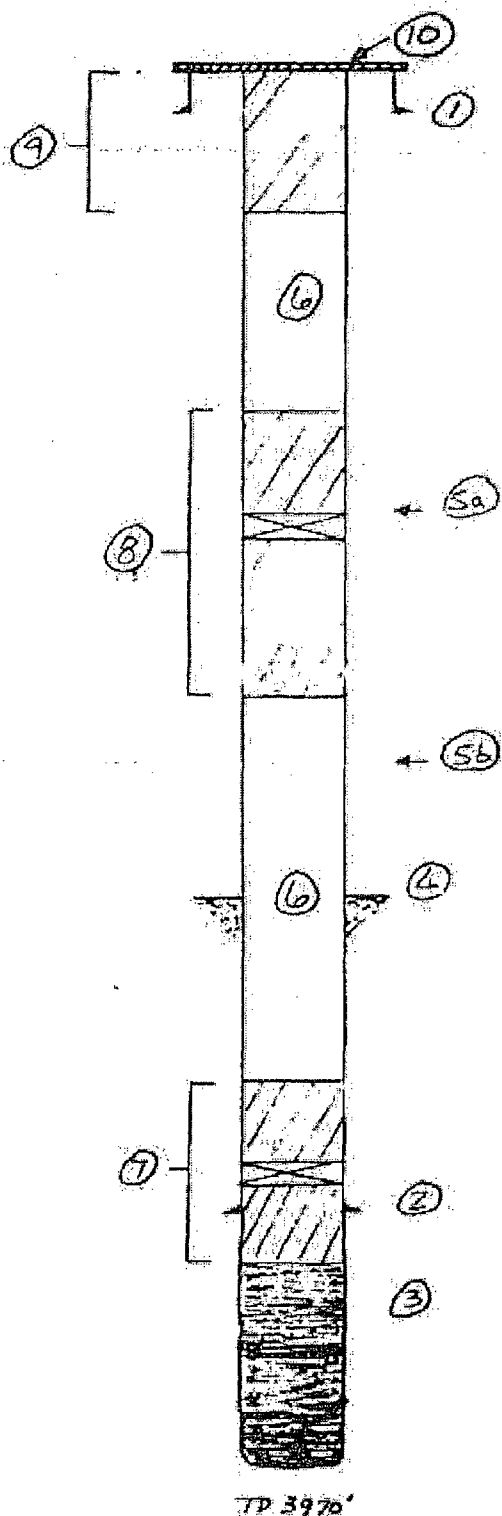
Junk in hole: two strings tools, top at 2200'

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" CSG @ 22' CMTD W/ 15 SX
- ② 5 1/2" CSG @ 3563' CMTD W/ 300 SX
- ③ OH SHOT 3800'-3930' W/ 340 yds.
JUNK IN HOLE 3930-70 (40'-5" OD CABLE TOOLS)
TDF @ 3857' (MEASURED 1-29-81)
PLUG BACK W/ GRAVEL TO ± 3790'.
- ④ TOC-NR; CALC ASSUMING 10" OH, S 7700'.
- 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

Supplier: Hobbs
Lease & Well No: MCA Unit No. 220W
Legal Description: 660 FSL & 650 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 9, 1939
API Number: 30-025-00798
Status: PLUGGED 04/18/07
Lease Serial No.: LC-059001

Perf & sqz'd 90 sx C cmt 100'
to surface, circulated cmt
TOC @ 1/2" Liner @ 125'
Bradenhead Sqz surf-int csg annulus
w/20 bbls flow-check
w/100 sx Glass 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	Max Down
36841-3801	12/16/40	2 Qts Nitro						
3820-3915	6/11/47	450 Qts Nitro						
	6/25/54	Plug back to 3500' w/10 sx, gel BP @ 3500' w/1-1/2 sx on top						
		Perf 3188-3238 w/100 shots						
3188-3238	6/28/54	Oil	10,000	20,000	2800		110	
	8/16/56	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 @ 3884'						
3587-3884	8/21/56	Gelled Gravel	10,000	15,000	3400		185	
	2/20/57	Cleanout from 3883-3952'						
	3/2/59	Convert to water injection						
	6/24/72	Set 4-1/2" 9.5# LINER @ 3815'						
	8/16/84	Sqz csg leaks @ 3547' & 3586 with 70 sx cement						
	6/85	Bradenhead Squeeze surface-intermediate casing annulus w/20 bbls flow-check w/100 sx Class H cement						
	1/1/89	Shut-in						
	10/7/88	placed back on injection						
	7/14/92	1.71 R Profile Nipple set @ 3541' Baker Loc Set PKr w/K valve Set @ 3515' Temporarily Abandoned						

Base Seal @ 2000'

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

TRIPLE N
SERVICES INC.
MOORE TX

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

3188-3238 - Sqz'd w/100 sx

BP @ 3500' w/1-1/2 sx - drilled out
Baker Lockset w/K Valve RBP @ 3515'
Giberson PKr w/Plug set @ 3541'

Hole Size - N/A

7" 20# @ 3564.5'

3547'

Cmt'd w/100 sx

3586' - Csg leaks sqz'd w/70 sx

TOC @ N/A

Hole Size - N/A

4-1/2" 9.5# J-65 LINER @ 3815' cmt'd w/ 300 sx, TOC 125'

Casing / Openhole Capacities

4 1/2" 9.5# csg	10.965	ft/m	0.0812	ft/m
5 1/2" 17# csg	7.561	ft/m	0.1305	ft/m
7" 20# csg	4.869	ft/m	0.2273	ft/m
7" 28# csg	4.855	ft/m	0.2148	ft/m
7 1/2" 24# csg	3.715	ft/m	0.2591	ft/m
8 1/2" 20# csg	2.733	ft/m	0.3658	ft/m
8 1/2" 24# csg	2.797	ft/m	0.3575	ft/m
8 1/2" 28# csg	2.853	ft/m	0.3509	ft/m
9 1/2" openhole	4.024	ft/m	0.2485	ft/m
7 1/2" openhole	2.957	ft/m	0.3382	ft/m
6 1/2" openhole	2.002	ft/m	0.4922	ft/m
10" openhole	1.834	ft/m	0.5454	ft/m
12 1/2" openhole	1.222	ft/m	0.8185	ft/m

Seven Rivers
Grayburg 4th 3580'
Grayburg 5th 3741'
Grayburg 6th 3819'

OH 3567-3892'

3820-3815 - Shot w/450 Quarts

CALSEAL TOP @ 3884'

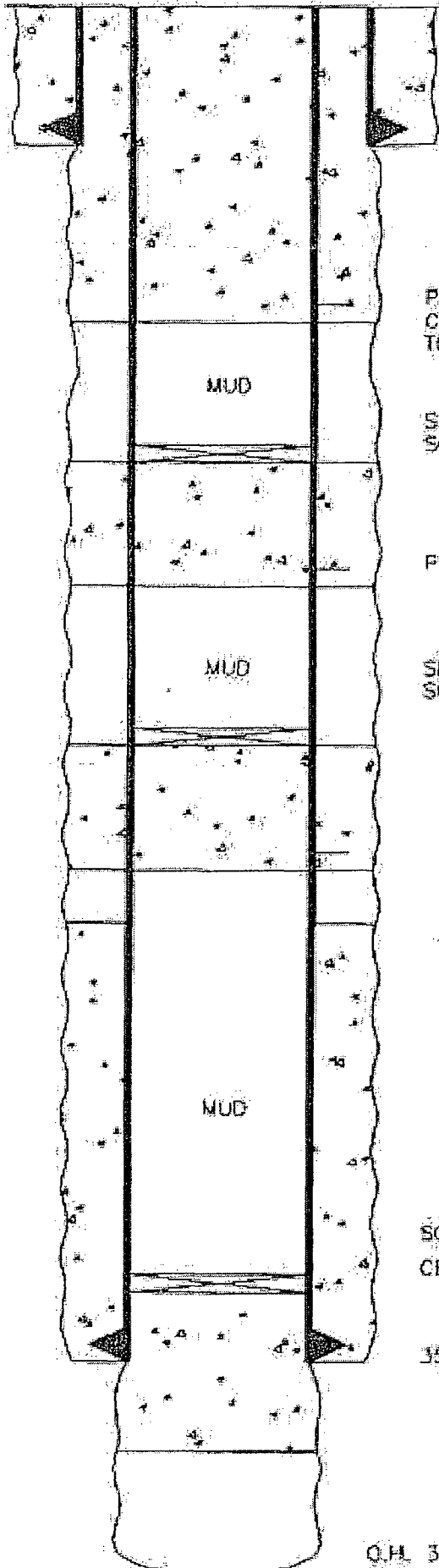
JUNK IN HOLE @ 3952'

P5TD @ 3541'
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'

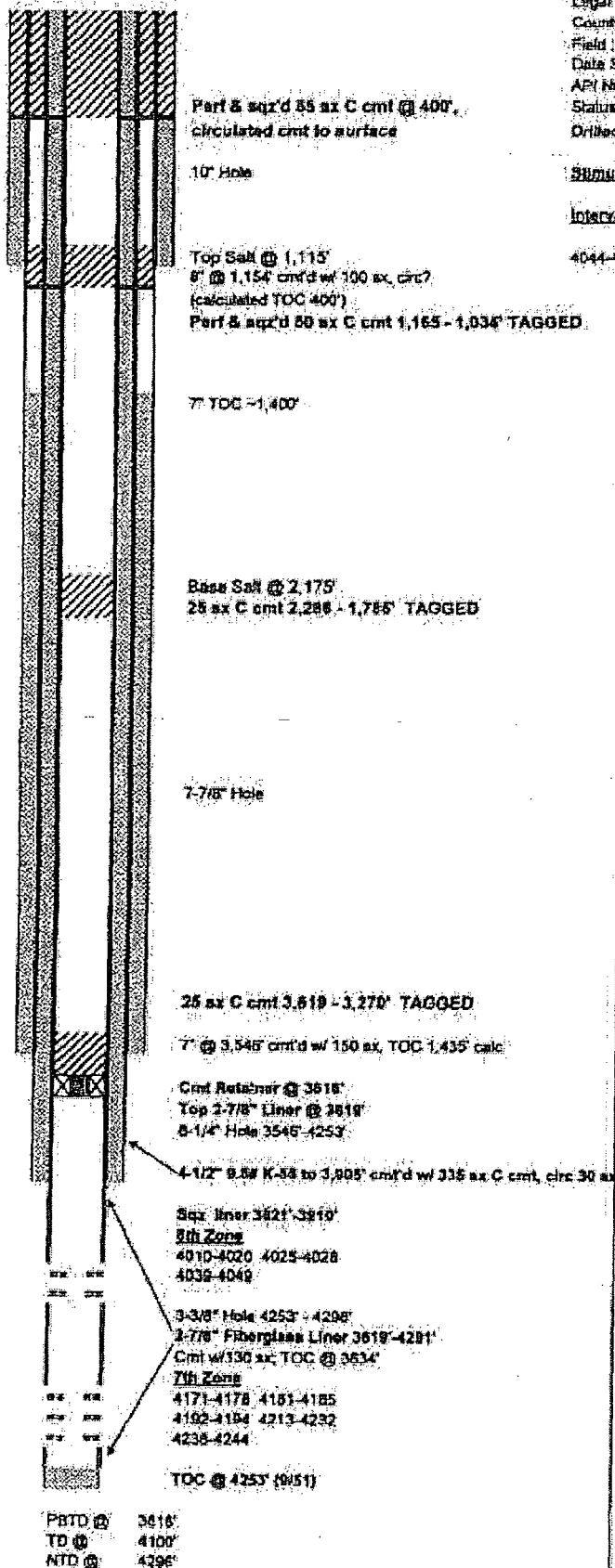
3547' - 5 1/2", 14 3/8" Casing. Cemented w/150 sxs

O.H. 3547'-4209'

T.D. @ 4209'

CONOCO, INC.
M.C.A. Unit #224
560' FNL & 660' FEL
Sec. 33, T-17S, R-32E
Log County, NM

RKB @ 3865'
DF @ 3964'
GL @ 3958'

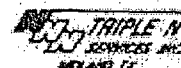


MCA 226

Subarea: Magamar
Lease & Well No.: MCA Unit No. 226W
Legal Description: 600' FNL & 660' FWL, Sec. 34, T-17-S, R-32-E
County: Lea State: New Mexico
Field: Magamar (Grayburg San Andres)
Date Spudded: 2/25/41 Rig Released: 4/22/41
API Number: 39-025-00917
Status: PLUGGED 12/21/06
Drilled as Pearcall BXY No. 1

Simulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	Max ISP	Max Rate	Down
4044-4594	4/22/41	Nitro	500 Quarts					
	9/10/51	Deepened to 4285'						
	9/12/51	Dump 8 ax; TOC @ 4280'						
	9/18/51	Dump 4 ax; TOC @ 4253'						
	5/1/53	Change in well designation, unitization renumbered as MCA Unit No. 226 from Pearcall BXY No. 1						
	5/5/54	Cut paraffin and swab to make flow						
	2/12/55	Swab to make flow						
	10/24/55	Check and pulled tubing; rerun and run pump and rods						
	5/10/59	RU unit, hr tbg 2 ft. Tag btm. Tbg set 5' off btm.						
	12/1/59	RU unit, pull rods and pump, change pump. Rerun in well, put back on production.						
	10/25/72	Tag fill @ 3848', CO from 3948' to 4253'. Set pcr @ 3870' and frac w/30,000 gals treated prod wtr and 60,000# 20/40 sand @ 16.5 BPM @ 3300 psi. AFE 40-61-1685						
	1/5/73	RU unit, pulled rods, change pump, preparing for larger pump equipment.						
	5/24/74	RU unit, pulled rods and pump. CO pump, rerun in well and have put back on production						
	5/27/74	RU unit, pulled rods & pump. Dropped SV and lat tr. Pull tbg, change out MA and lat it whole in it. Run rods and new pump and put back on prod.						
	7/31/75	Set 4-1/2" liner @ 3805' cmt w/335 ax cmt.						
	9/18/75	Laid 2-1/8" inj line, inj wtr @ rate of 850 BWPD @ 410 psi. Convert to water injection						
	2/2/88	Set 2-7/8" liner 3819'-4281' and perforate 8th Zone 4010'-4049'; 7th zone 4171'-4232' and 4238'-4244'						
	5/24/88	Run injection profile - minor channelling above top perf						
	4/17/89	Run injection Profile w/24 hr shut in lamp survey						
	12/31/89	Set cement retainer @ 3818', circ 60 bbls pkr fluid. Temporarily Abandoned						



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

- 1) 25 ax C cmt 3,819 - 3,270' TAGGED
- 2) 25 ax C cmt 2,288 - 1,785' TAGGED
- 3) Perf & sqz'd 50 ax C cmt 1,165 - 1,034' TAGGED
- 4) Perf & sqz'd 85 ax C cmt 400' to surface, circ

Capacities

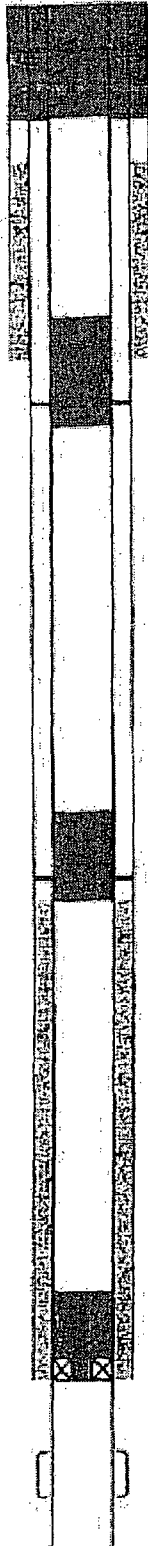
4 1/2" 9.5# csg:	10.965 ft/ft	0.0912 ft/ft
4 1/2" 10.23# csg:	11.167 ft/ft	0.0895 ft/ft
5-3/4" openhole:	4.024 ft/ft	0.2465 ft/ft
7-7/8" openhole:	2.957 ft/ft	0.3382 ft/ft
10" openhole:	1.834 ft/ft	0.5454 ft/ft
7 1/2" 24# csg:	3.715 ft/ft	0.2891 ft/ft
8 1/2" 20# csg:	2.733 ft/ft	0.3699 ft/ft
8 1/2" 24# csg:	2.787 ft/ft	0.3575 ft/ft

PLUGGED WELLBORE SKETCH
ConocoPhillips Company - Permian Basin Business Unit

MCA 227

Date: March 2, 2005

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



50 ax C cmt sq'd 75' - surface

150 ax C cmt sq'd 400 - 75' TAGGED

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

40 ax C cmt 1,248 - 1,630' TAGGED
 Perforated at 1,188', unable to squeeze
 at 1,000 psi

Base of Salt @ 2230'
 30 ax C cmt 2,437 - 2,235' TAGGED
 Perforated at 2,385', unable to squeeze at 1,000 psi

TOC @ 2,443' (Est.)

unable to string into CCR @ 3,700'
 30 ax C cmt on CCR 3,790 - 3,525'
 Cmt Retainer @ 3790'
 7-3/8" @ 3,743' w/ 100 ax

OH 3743' - 4171'

4045' - 4150' shot w/270 qts Nitro

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

Maljamar
 MCA Unit No. 227
 090' FNL & 1880' FNL, Sec. 34, T-17-S, R-32-E
 Lea State: New Mexico
 Maljamar (Grayburg-San Andres)
 June 18, 1941 IPP
 30-525-00818
 Plugged & Abandoned 03/01/05

Stimulation History:

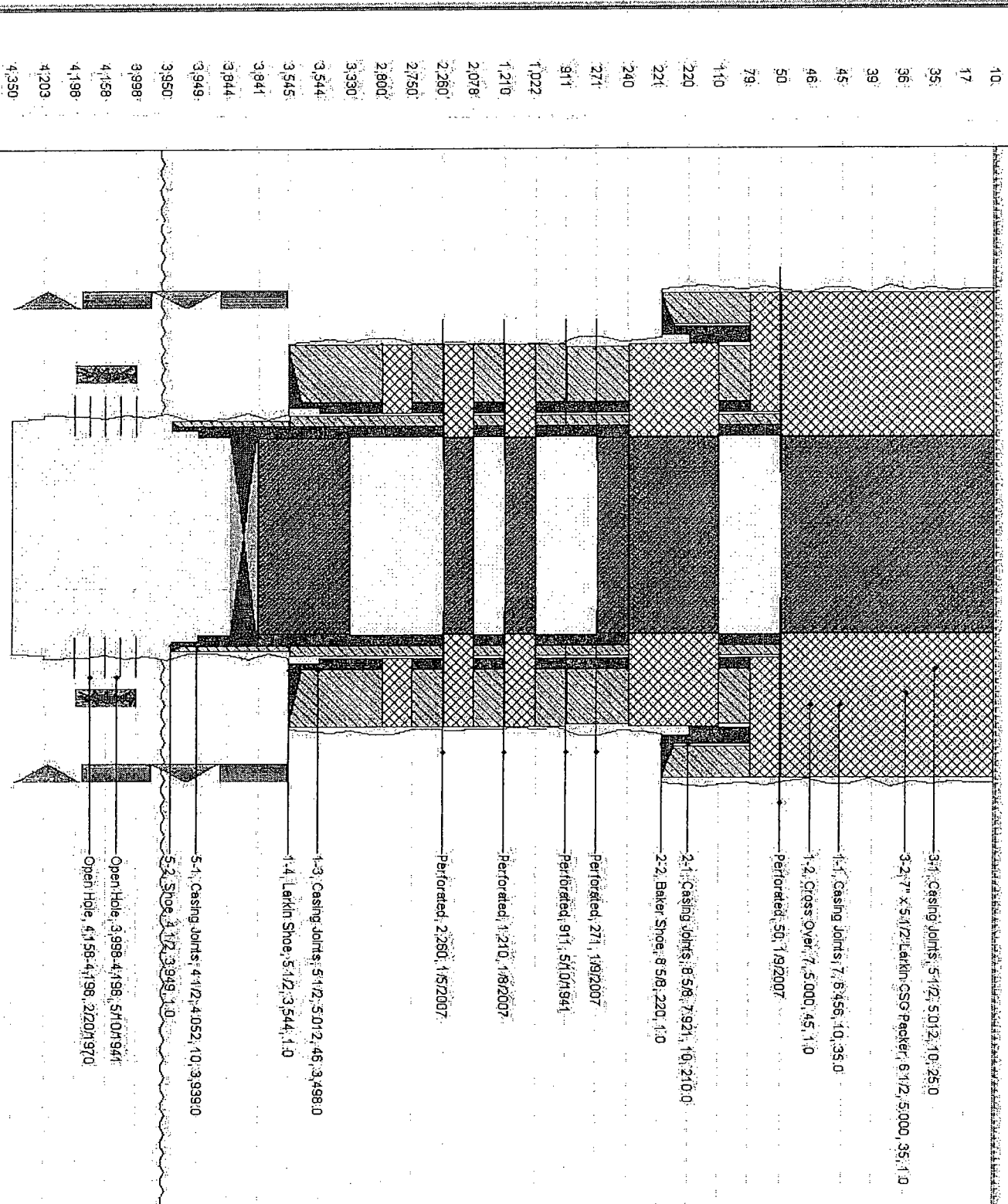
Interval	Date	Type	Gels	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
OH 4045-4150	8/13/41	Nitroglycerin	270 Quarts					
	5/1/83	Effective with Utilization renumbered MCA Unit No. 227.						
3743-4171	3/18/71	Scale Inhibition treatment						
	9/15/88	CO and jet wash to 4140'						
3743-4171	9/15/88	15% NEFE	2,588		1550	1500	2.5	2-7/8"
	9/28/88	Test: 4 BO, 85 BW						
	10/17/88	Deepen from 4171' to 4200'						
3743-4200	10/18/88	15% NEFE	3,750	800#RS	2100	1900	4.0	2-7/8"
		20# Gel	22,461	43,375	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						
	8/17/91	COP: fish part						
	9/5/91	fish PR - could not retrieve						
		fish rods and pump						
	8/1/92	CO right spot @ 3800'; CO several scale bridges to TD.						
		Heavy scale build-up.						
	1/7/00	Laid down rods and pump. Ran cement retainer to 3700'.						
		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 CCR @ 3,700'
- 2) 30 ax C cmt on CCR 3,700 - 3,525'
- 3) 30 ax C cmt 2,437 - 2,235' TAGGED
- 4) 40 ax C cmt 1,248 - 1,030' TAGGED
- 5) 150 ax C cmt sq'd 400 - 75' TAGGED
- 6) 50 ax C cmt sq'd 75' - surface

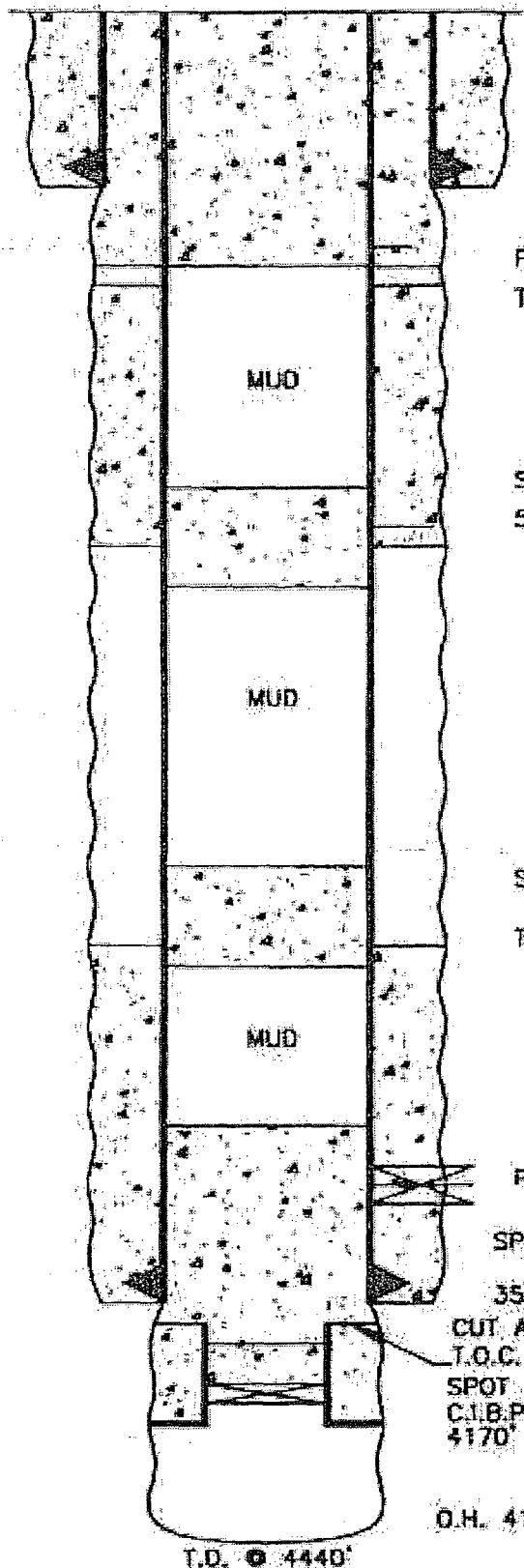
PBTO @ 3700'
 OTD @ 4171'
 NTD @ 4200'



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#, Hydriil FS Cemented w/250 sxs

O.H. 4170'-4440'

T.D. @ 4440'

CONOCO, INC.

M.C.A. Unit #229

1980' FNL & 660' FWL

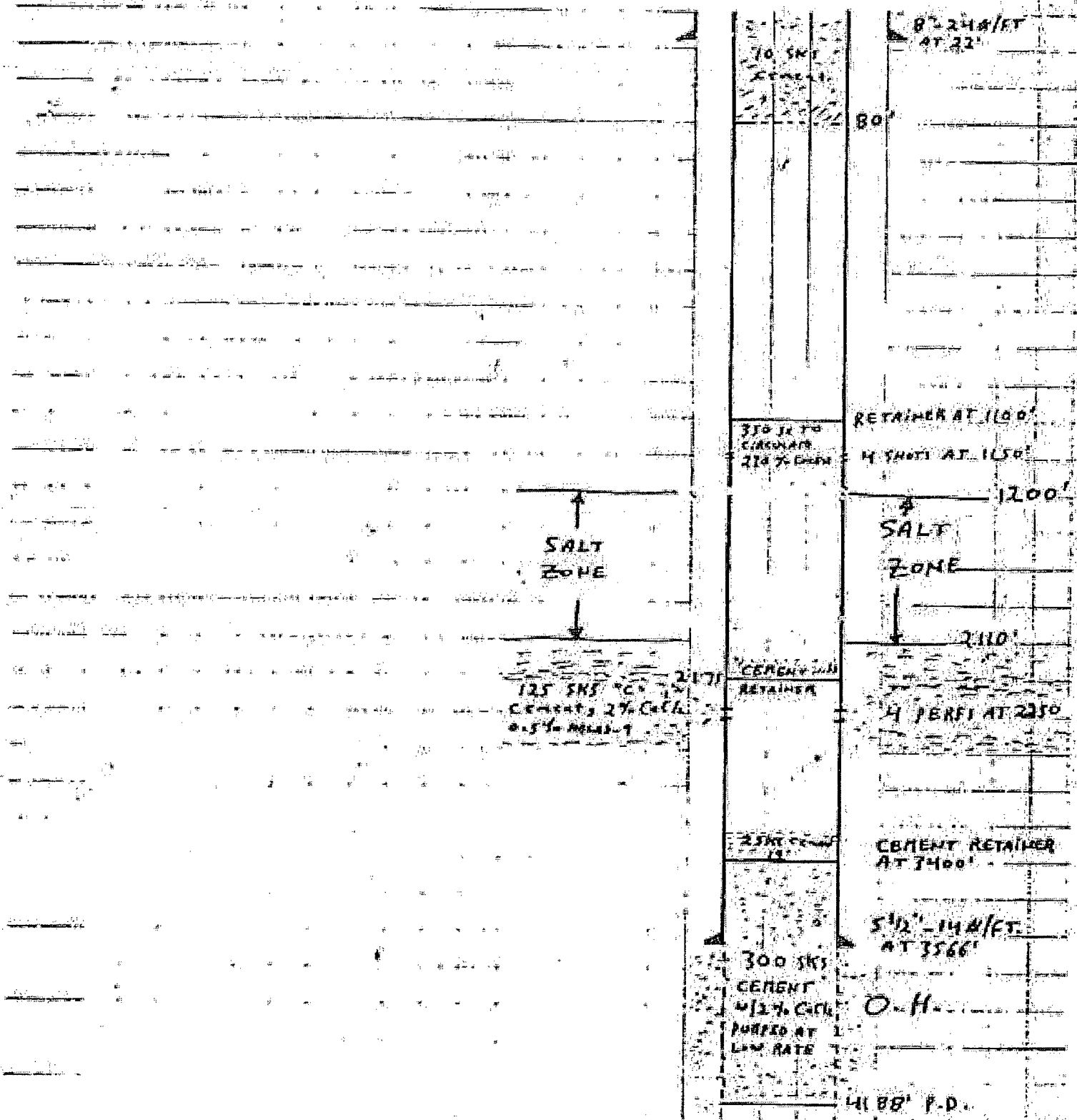
Sec. 34, T-17S, R-32E

Lea County, NM

MCA NO. 230 IW

0.1737 14/11/11 10-2-10 11/11/11

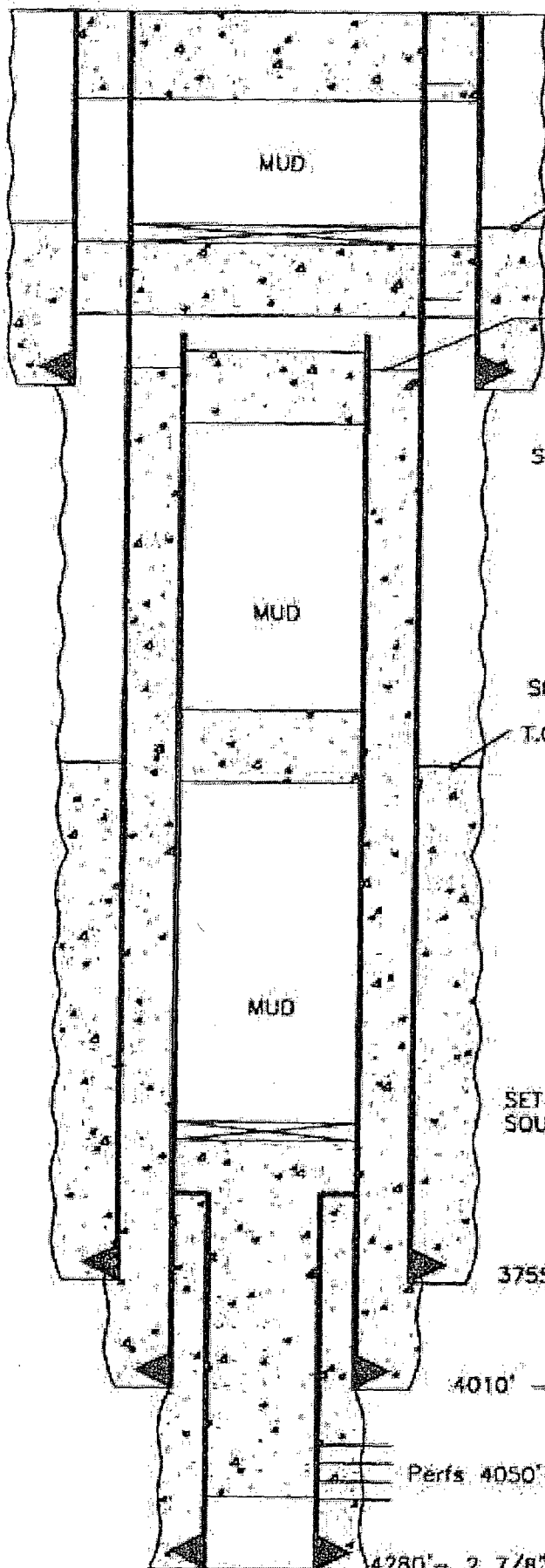
0.137 14/11/11 10-2-10 11/11/11



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'

T.D. = 4330'

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

CONOCO, INC.

M.C.A. Unit #232

1880' FNL & 1980' FWL

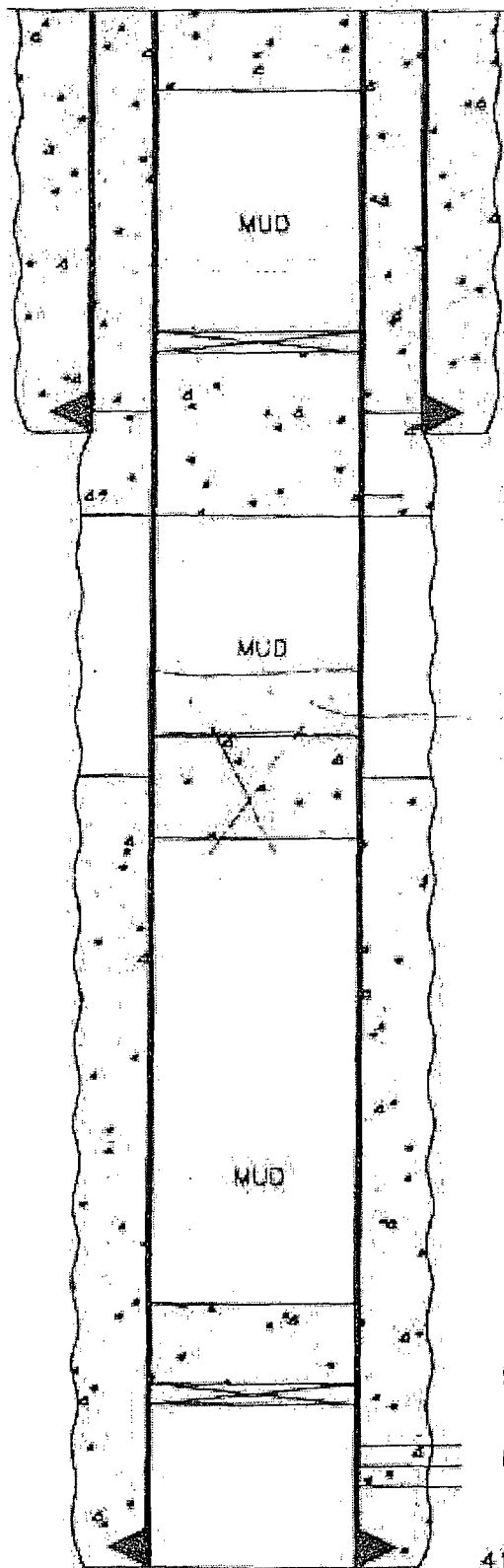
Sec. 33, T-17S, R-32E

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. @ 2580' (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

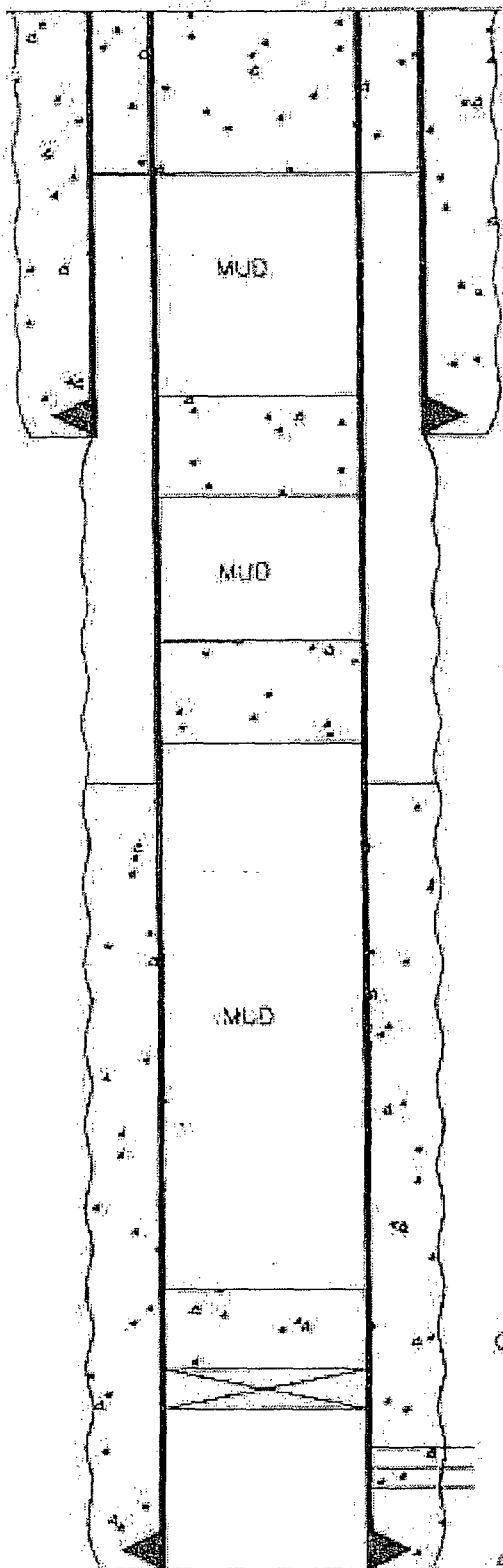
Lea County, NM

Elev. = 4027'

7/22/96

MCA 292

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



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

SPOT 25 SXS CEMENT 750'-1000'

SPOT 25 SXS CEMENT 2200'-2450'

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

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

Perfs @ 3350'-4151'

4200' - 5 1/2", 14#, Casing, Cemented w/100 sxs

F.D. @ 4200'

CONOCO, INC.

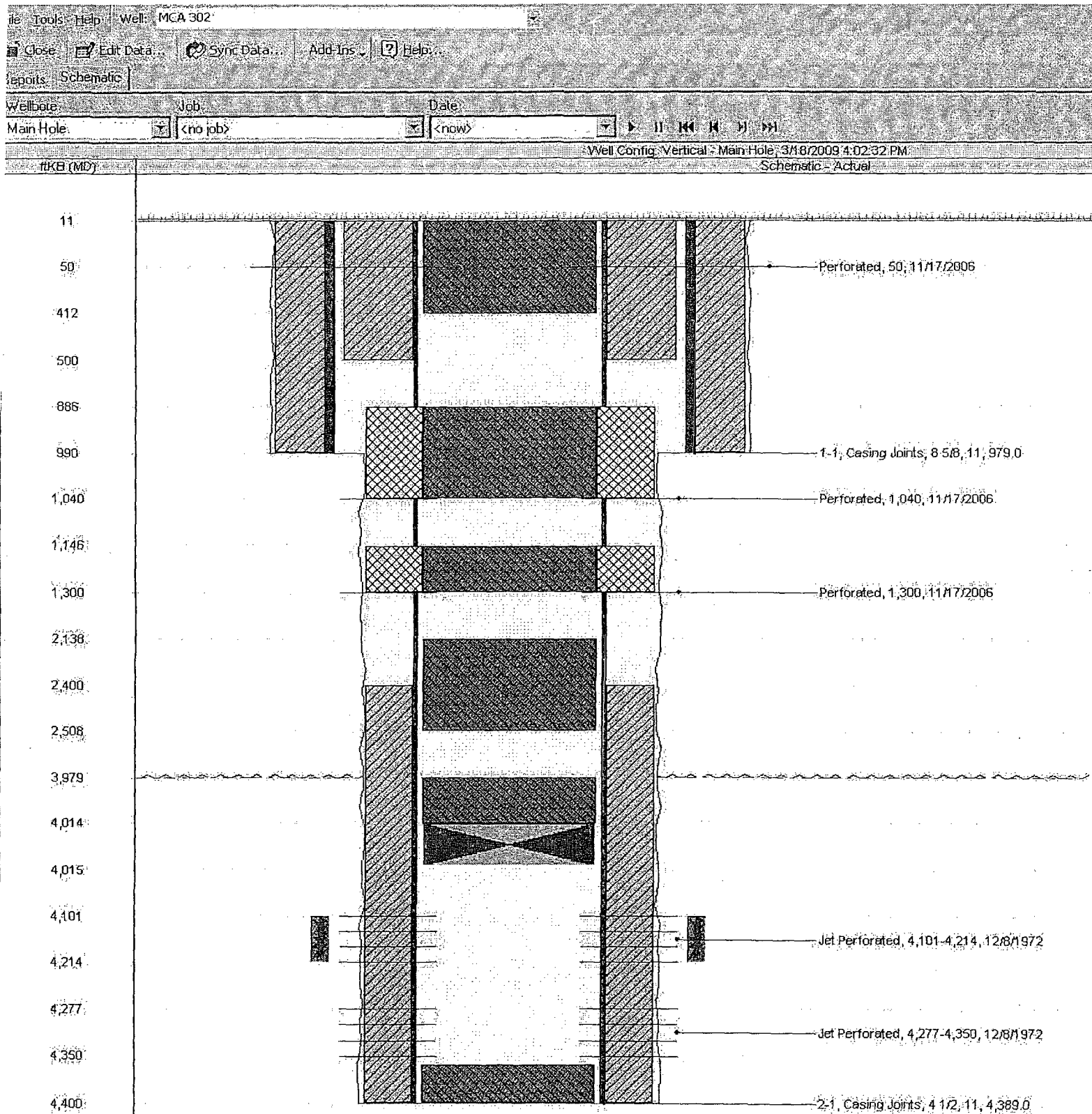
M.C.A. Unit #292

1295' FNL & FWL

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

Lea County, NM

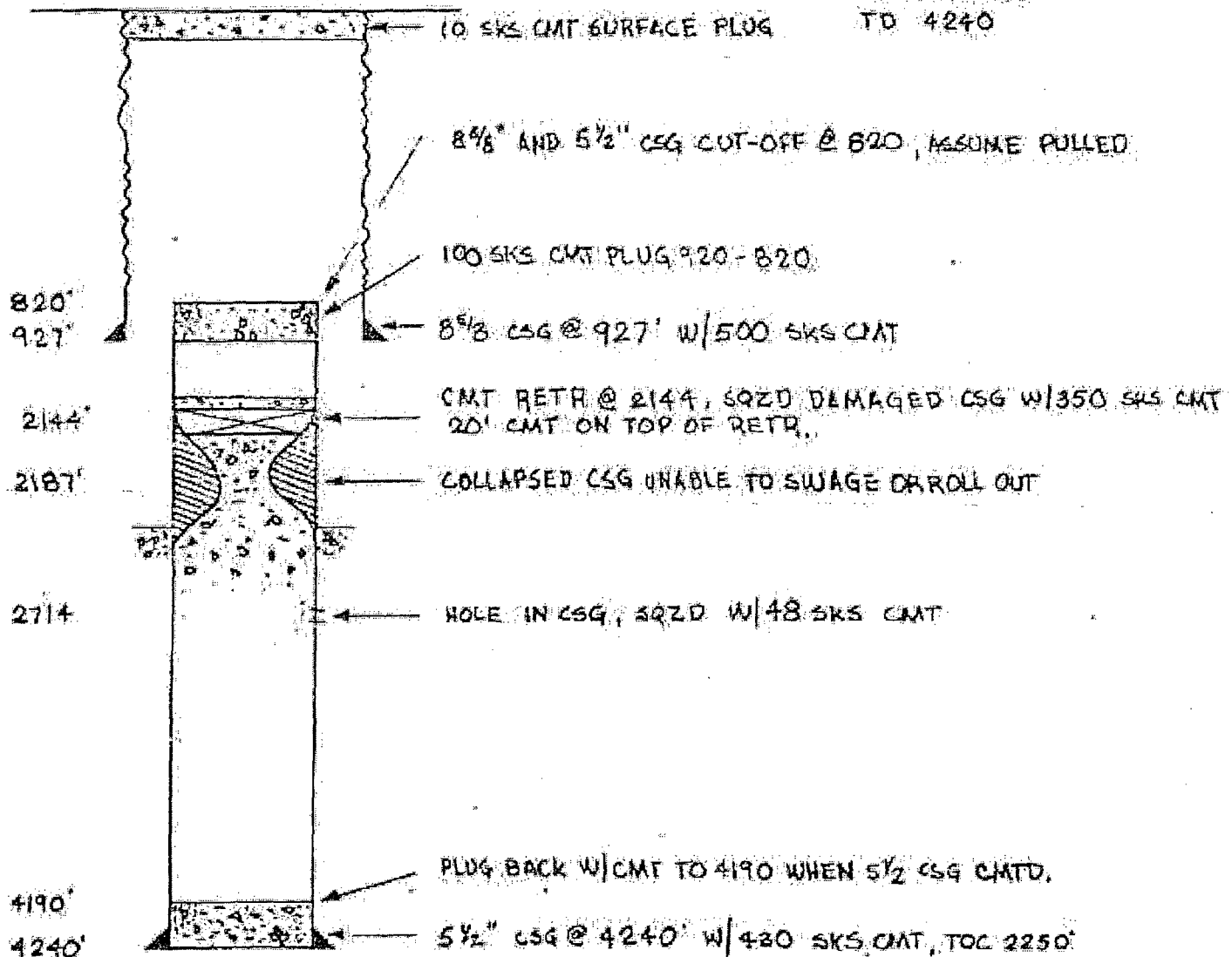
MCA 302



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



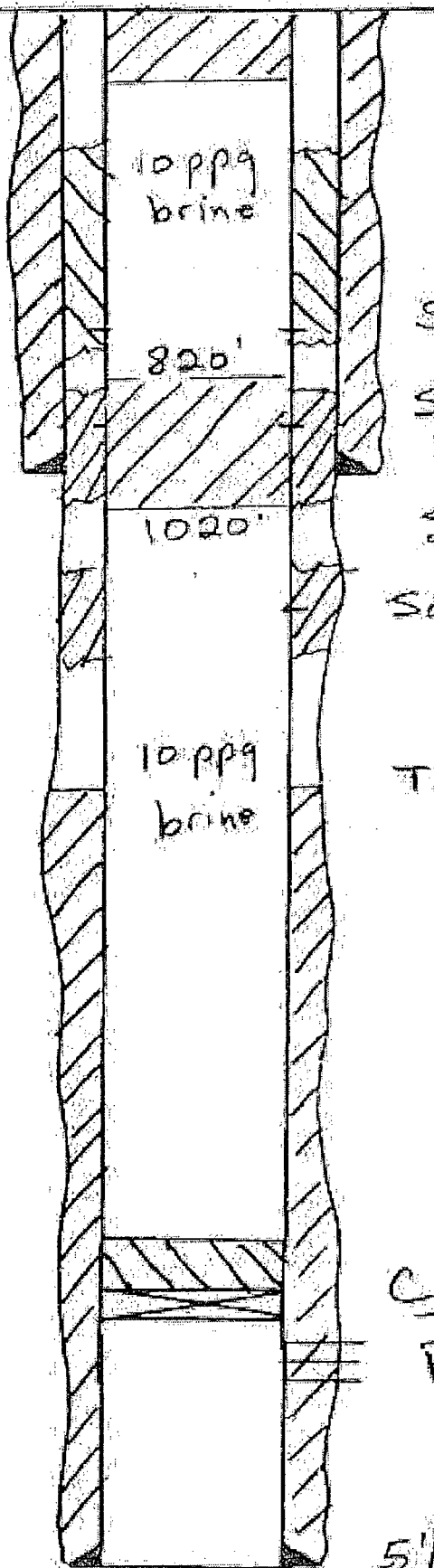
PAST HISTORY

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

12/21/76 - P&A; SET CMT RETR @ 2144 SQZD CSG W/350 SKS CMT, PERF @ 918-920 W/
2 JSPF, 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



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'

Sqzd @ 1775' w/ 200 sxs

T.O.C. @ 2500' Temp Sur.

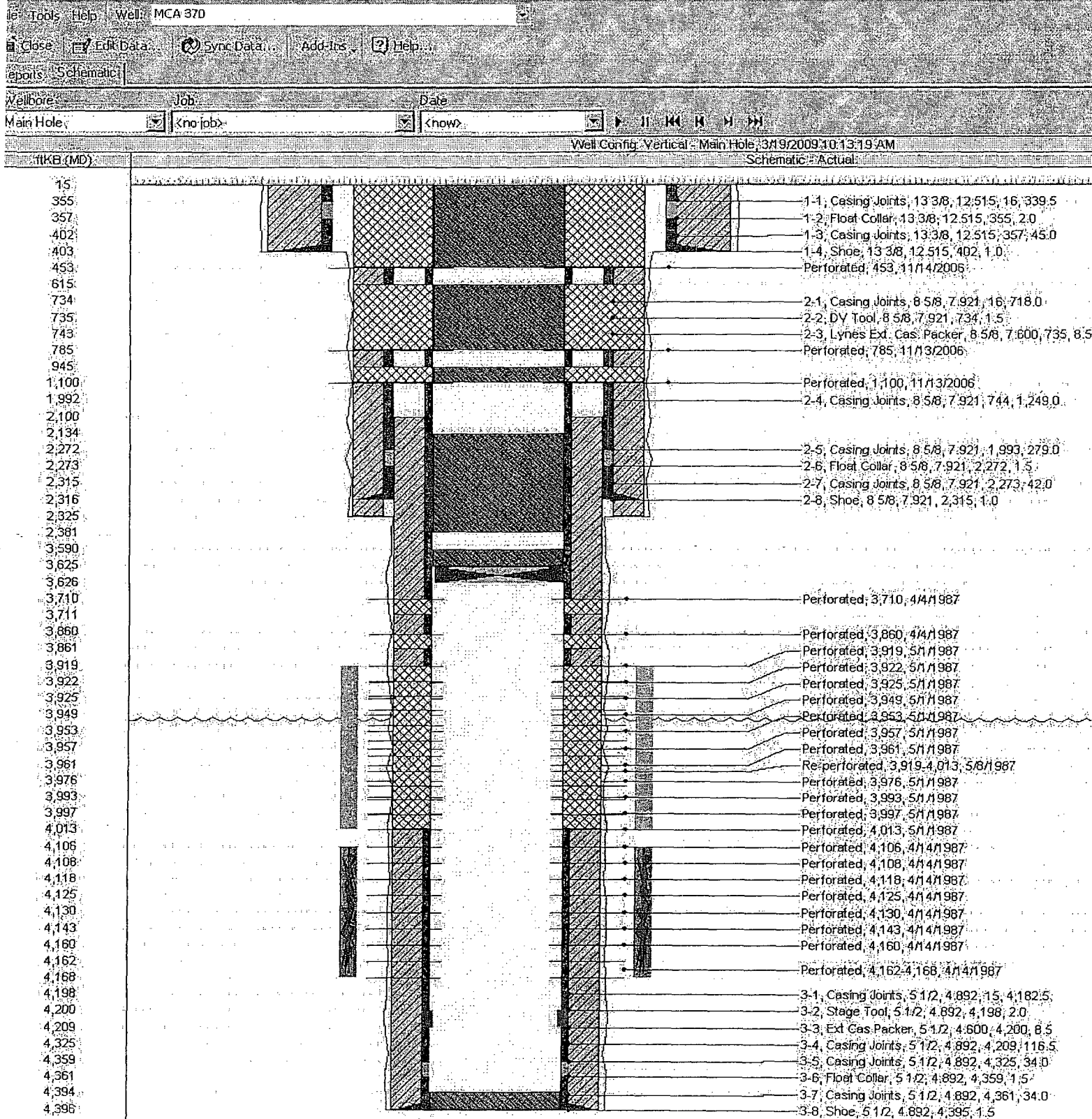
C.I.B.P. @ 3975' w/ 5 sxs cement

Perfs 4026' - 4192'

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

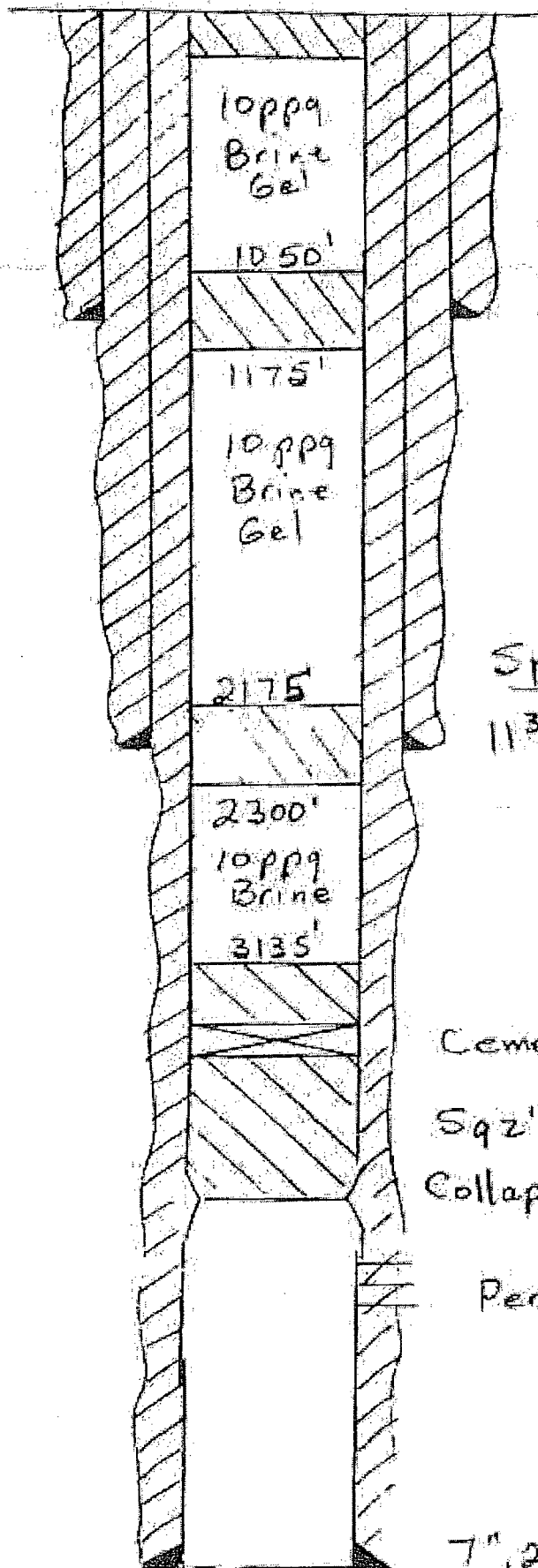
TD 4350'

MCA 370



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'

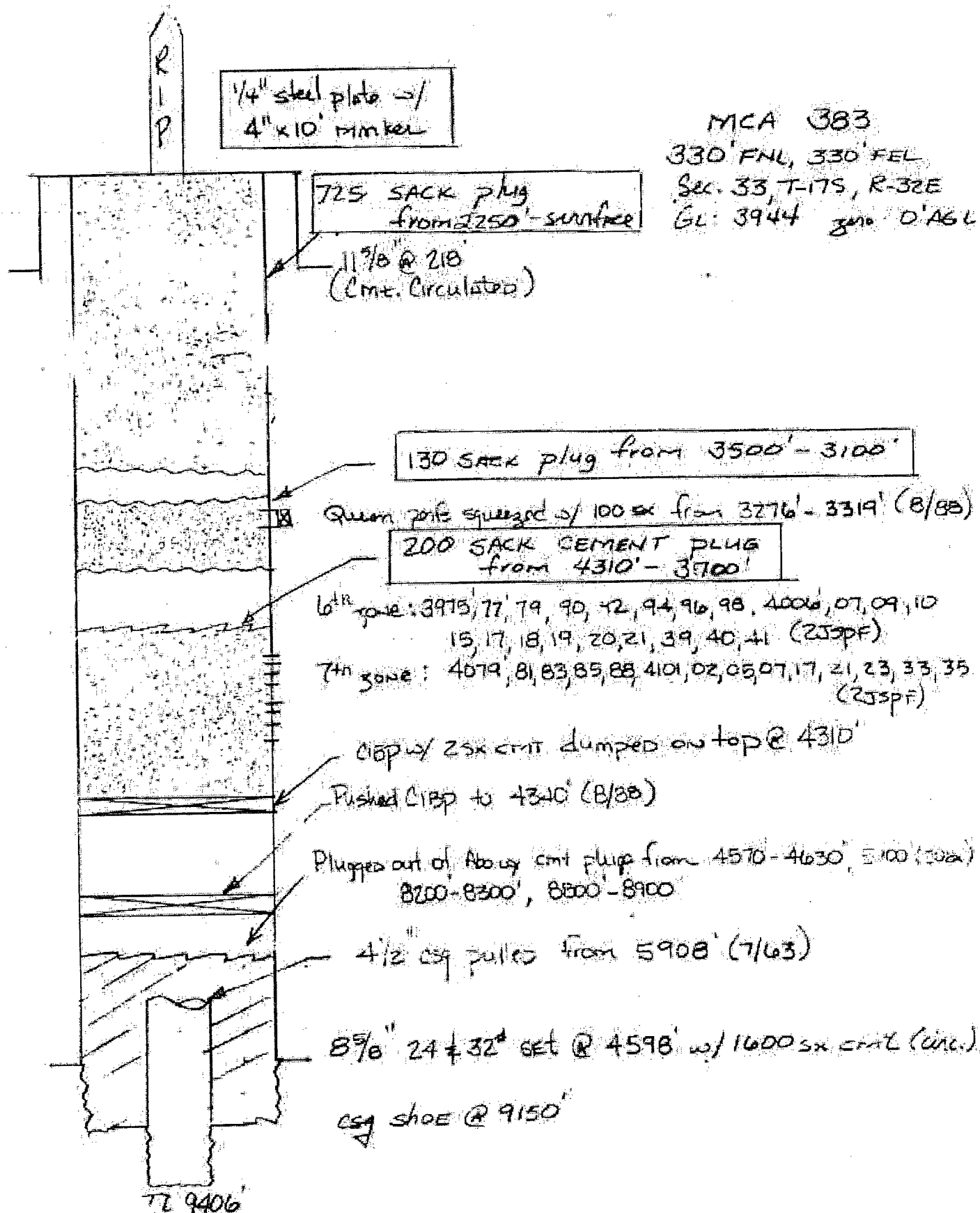
Sqz'd w/ 200 sxs

Collapsed Casing @ 3429'

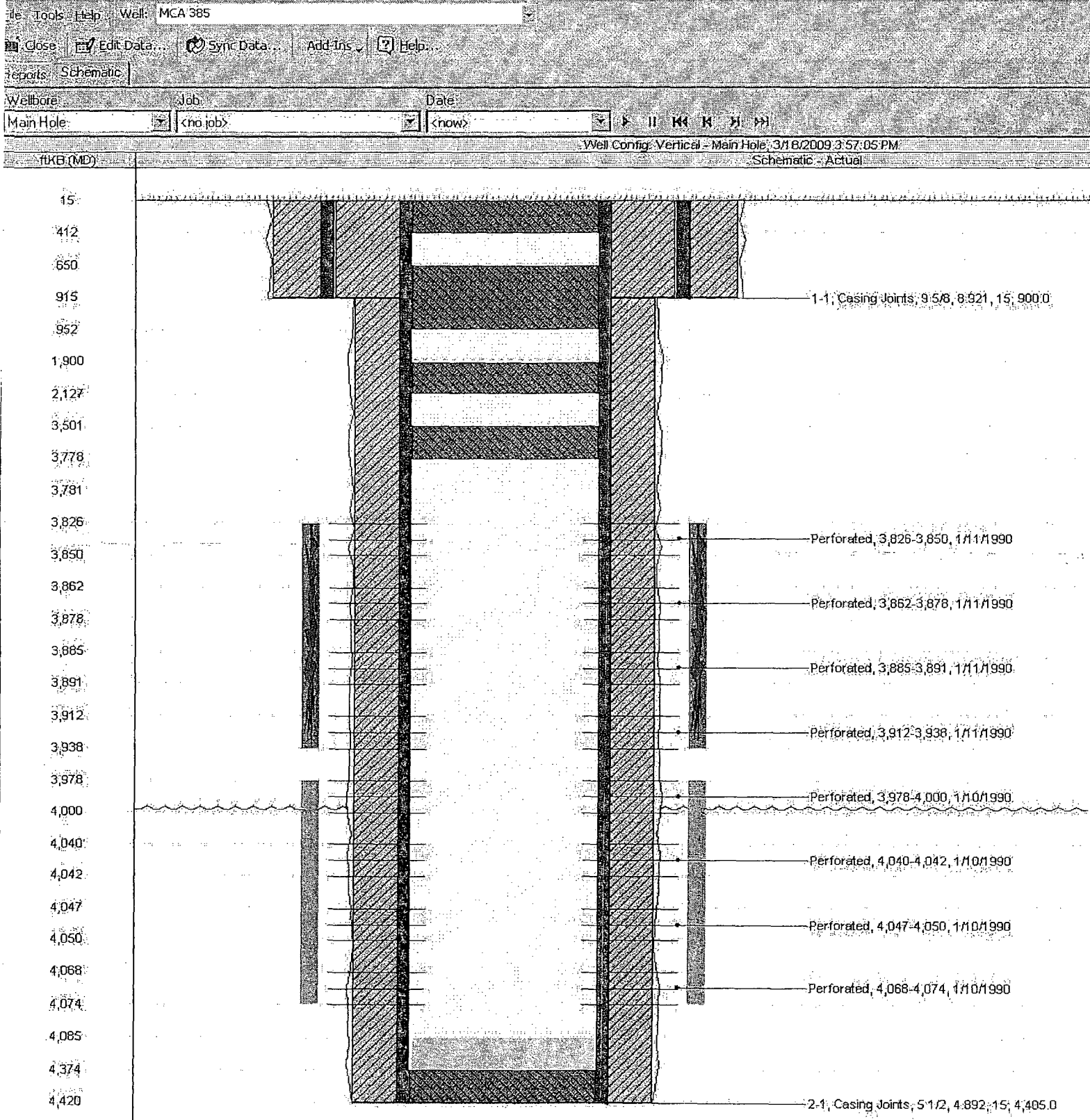
Perfs 3913' - 4011'

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

TD 4250'



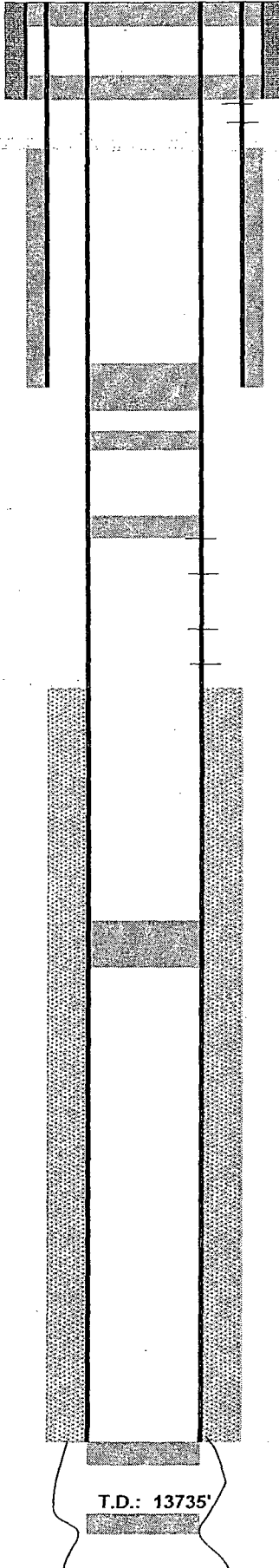
MCA 385



WELLBORE DIAGRAM
BAISH - FEDERAL B #2

20 sx @ surface

3-3/8"
OC @ SURFACE
50 SX CEMENT
CIRCULATE
5 sx @ 185'



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

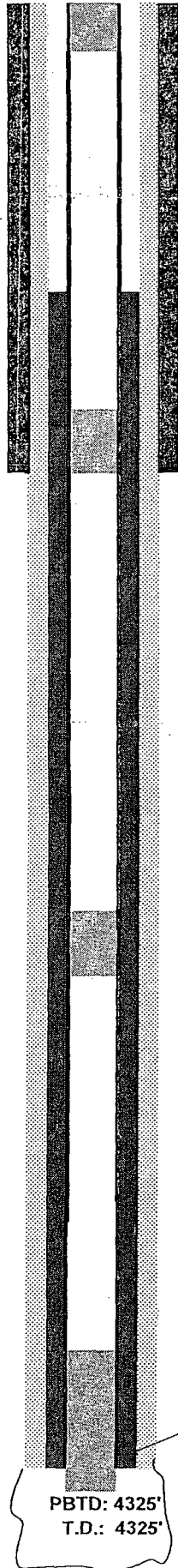
50 sx @ 11550-11450'

50 sx @ 12250-12150'

T.D.: 13735'

WELLBORE DIAGRAM

leamex #3



TOC Plug surface

10 sxs

Bottom @20'

Lease and Well No.:

Location:

Leamex #3

Sec. 19, T17S-R33E

County/State:

Lea County, New Mexico

Field:

Maljamar

Spud Date:

10/13/1943

API Number:

30-025-01474

Status:

PA'd

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

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.:

MCA UNIT #85

Location:

Sec. 22, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Majamar

API Number:

30-025-00640

Status:

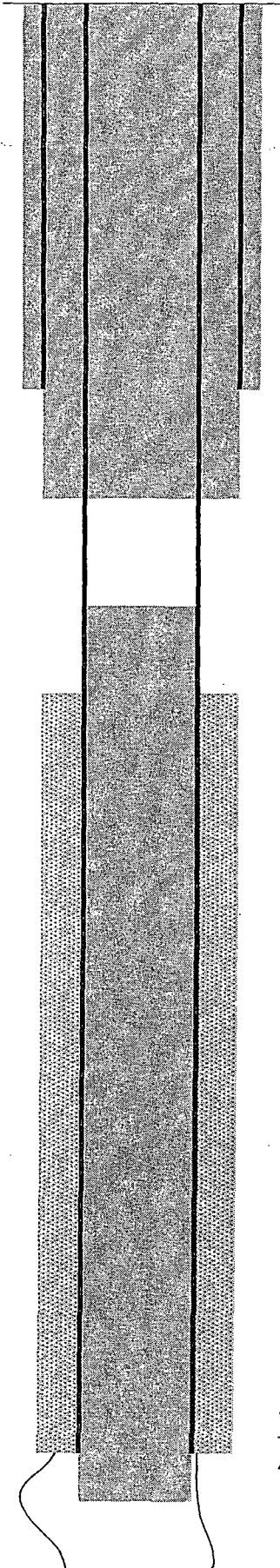
PA'D

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:

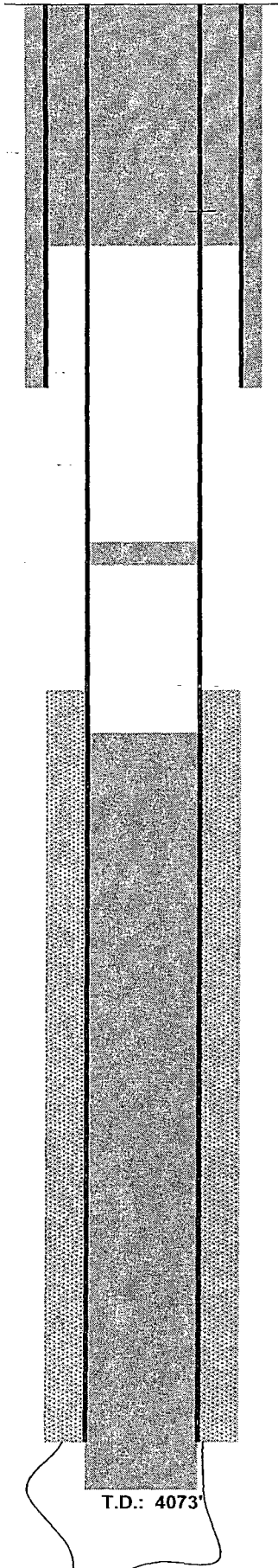
MCA UNIT #187
Sec. 26, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00704
PA'D



75 sx squeezed through 150' to surface

8-5/8" @ 282'
TOC @ surface
circulate
50 sx cement

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

3-5/8" @ 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

1-5/8" @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:

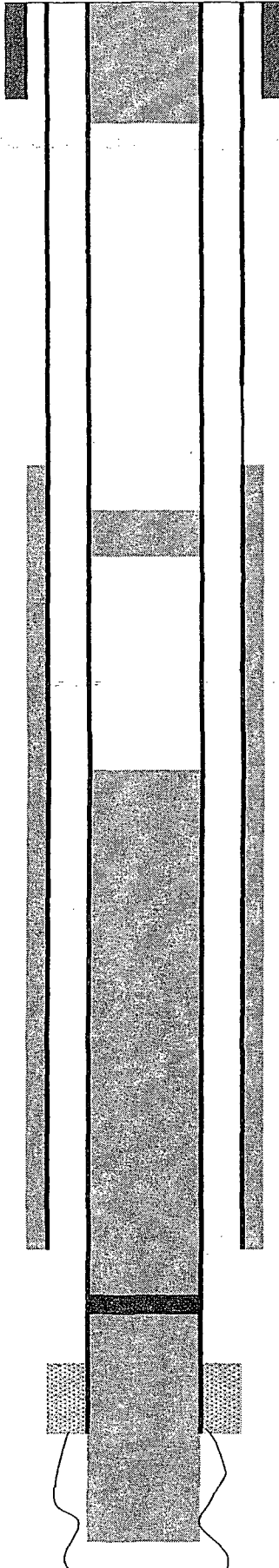
30-025-00727
PA'D

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

3-5/8" @ 1206'
30 sx cement

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.:
Location:

MCA UNIT #249
Sec. 26, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00708
PA'D

-5/8" @ 31'
OC @ surface
irradiate
3 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'

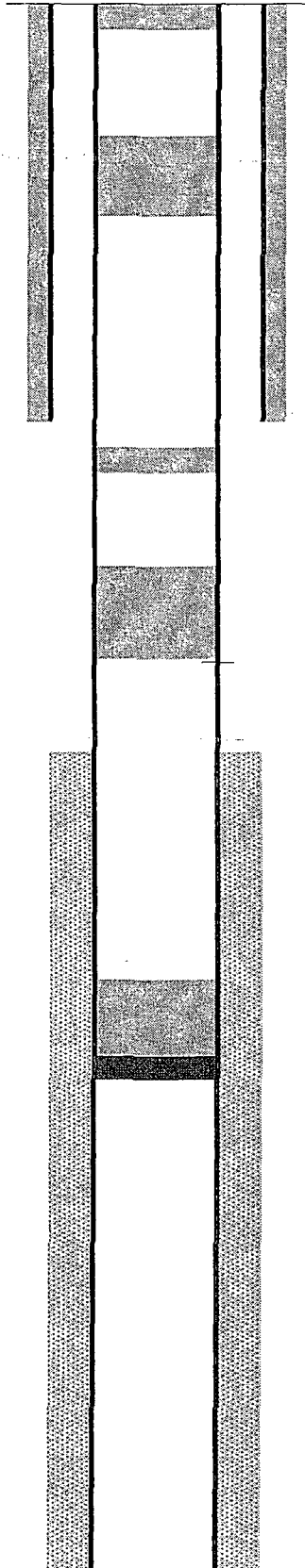
10 sx from 60-surface

T.D.: 4140'

WELLBORE DIAGRAM

MCA UNIT #311

10 sx @ 60' to surface



Lease and Well No.:

MCA UNIT #311

Location:

Sec. 26, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

API Number:

30-025-24101

Status:

PA'D

25 sx @ 229-470'

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

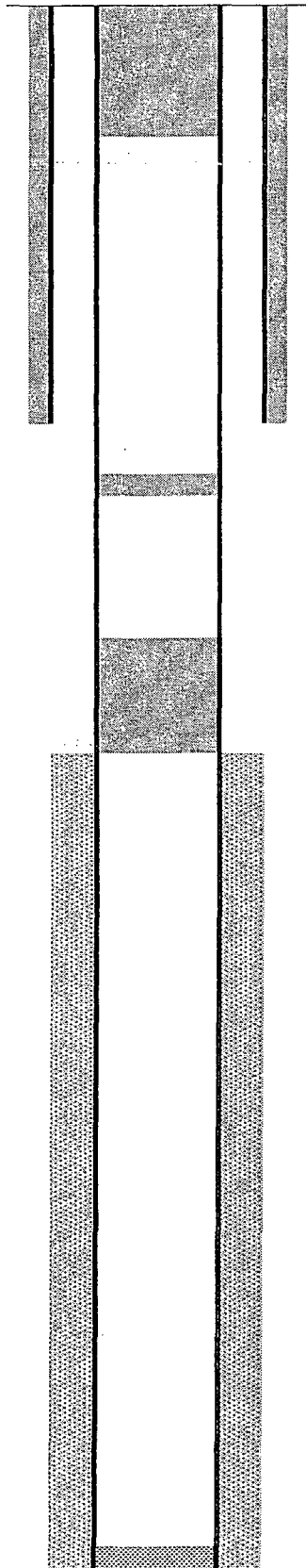
T.D.: 4325'

-5/8" @ 1000'
'OC @ surface
irculate
'00 sx cement

WELLBORE DIAGRAM

MCA UNIT #315

80 sxs cement from 300' circulated to surface



Lease and Well No.:

MCA UNIT #315

Location:

Sec. 27, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

API Number:

30-025-24128

Status:

PA'D

1-5/8" @ 995'
TOC @ surface
circulate
175 sx cement

25 sx cement @ 900-1100'

100 sx cement under retainer @ 1828
10 sx cement spotted on top from 1828-1728'

T.O.C @ 2140'

Perforations

INTERVAL

3962-4190 GRAYBURG SAN ANDRES

5-1/2" @ 4260'
TOC @ 2140'
300 sx cement

T.D.: 4260'

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

5-8" @ 904'
TOC @ surface
circulate
160 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'

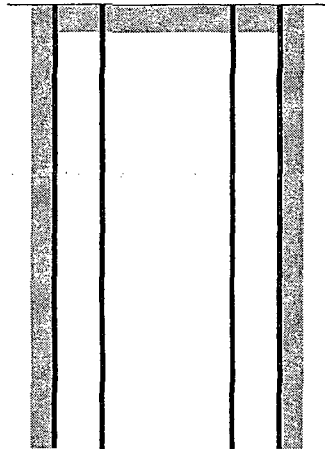
5-1/2" @ 4200'
TOC @ 2720'
500 sx cement

T.D.: 4200'

WELLBORE DIAGRAM

MILLER #1

5 sx @surface



Lease and Well No.:

MILLER #1

Location:

Sec. 26, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

API Number:

30-025-00696

Status:

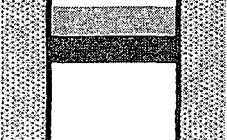
PA'D

3-3/8" @ 345'
OC @ surface
circulate
75 sx cement



20 sx @ 1084'

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



CIBP @ 4470'

8-5/8" @ 4517'

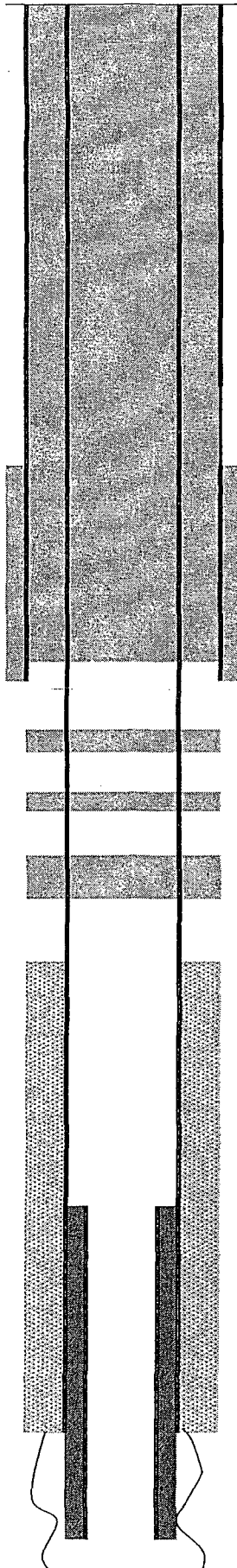
TOC 2200'

950 sx cement

TEMP SURVEY

WELLBORE DIAGRAM
MILLER #3

240 sx from 797' to surface



Lease and Well No.:
Location:

MILLER #3
Sec. 23, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00643
PA'D

3" @ 880'

125 sx @ 1140'

150 sx @ 1320'

150 sx 1497-1320'

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

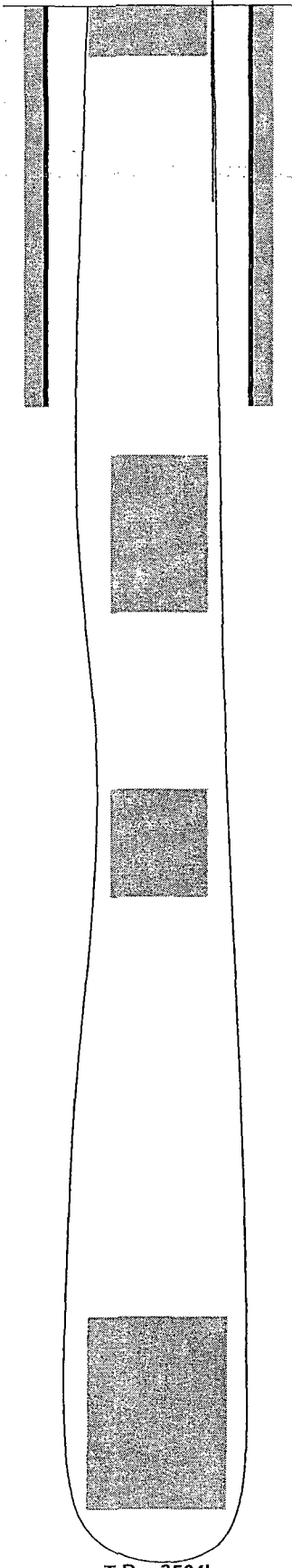
4" Liner @3600'
150 sx cement

6-5/8" @ 2540'
100 sx cement

WELLBORE DIAGRAM

MILLER C #1

5 SX FROM SURFACE TO 15'



Lease and Well No.:

MILLER C #1

Location:

Sec. 35, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

API Number:

30-025-00825

Status:

DRY HOLE

-5/8" @ 87'
OC @ surface
irculate
00 sx cement

30 SX @ 1110-1208'

20 SX @ 2378-2313'

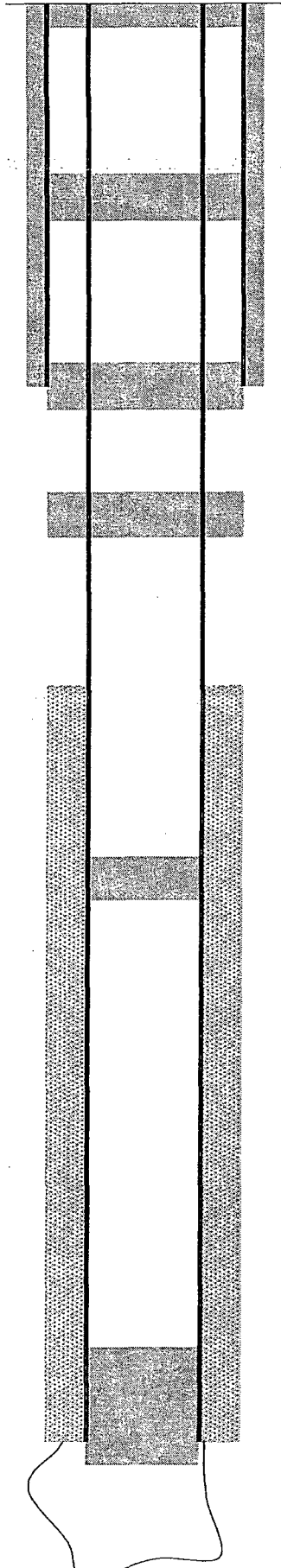
35 SX @ 3450-3564'

T.D.: 3564'

WELLBORE DIAGRAM

MILLER FEDERAL A #1

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'

-1/4" @ 1159'
50 sx cement

15 SX @ 1175-1123'

10 SX @1494-1440'

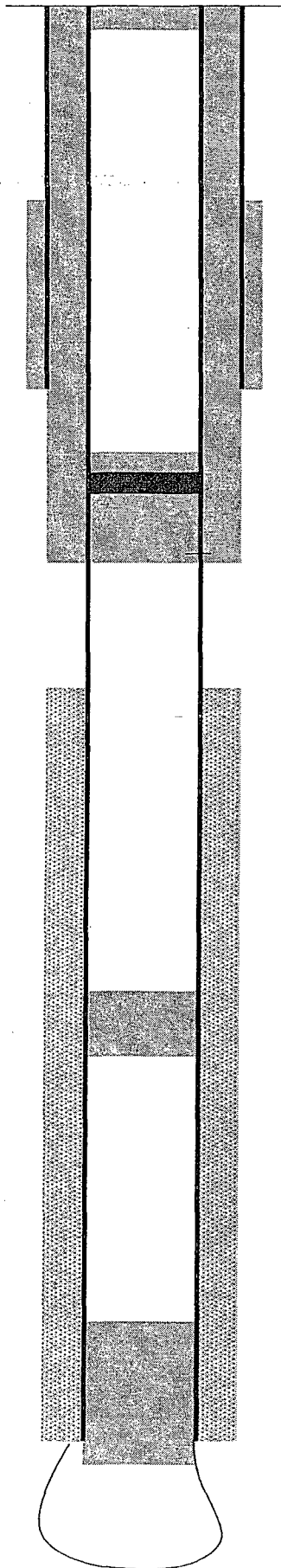
15 SX @2600-2508'

12 SX 3564-3601

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

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

5/8" @ 1125'
100 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

1-1/4" @ 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

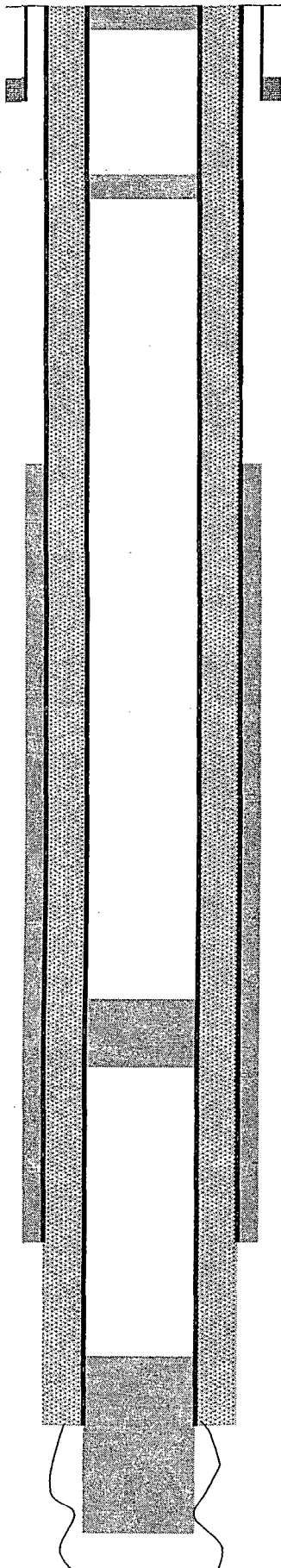
25 SX @ 1200-924'

25 SX @ 2800'

1" @ 3075'
00 sx cement
OC @ 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

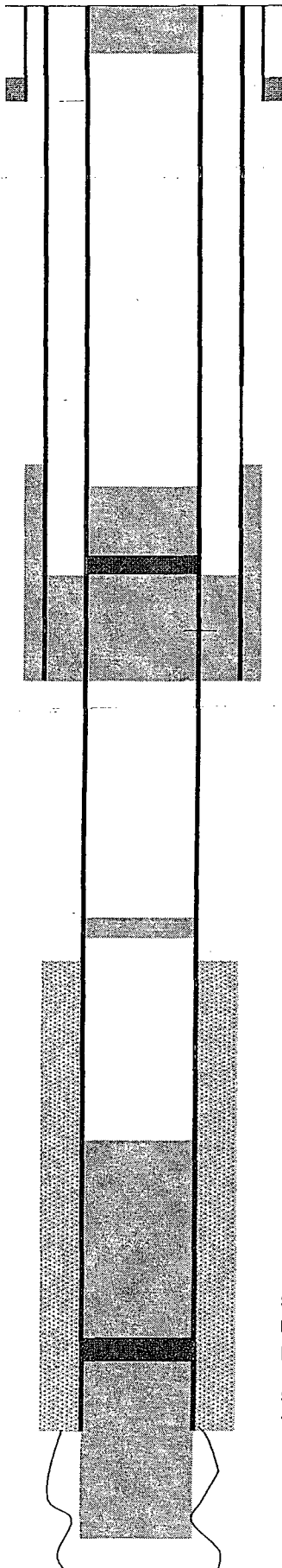
-5/8" @ 1128'
00 sx cement

25 sx 2278-2239'

PERFORATIONS
2901-2909'

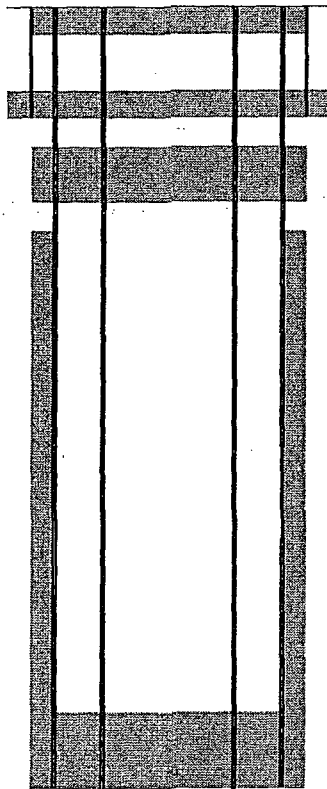
Spot 25 sx on top (TOC @ 2859')
Retainer set @ 3081'
pump 50 sx below

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'

25 sx @ 5805'

25 SX AT 6580'

5/8" @ 4249'
120 sx cement

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

API	Well #	Unit	Sec	Tsp	Rge	Top Perf	Bot Perf	Tubing	Pressure
30-025-37879	393	H	29	17S	32E	3770	4173	2.375	755
30-025-38859	405	C	34	17S	32E	4033	4272	2.375	810
30-025-39306	453	E	26	17S	32E	3906	4123	2.375	780
30-025-39315	458	M	26	17S	32E	4095	4277	2.375	820
30-025-39324	465	K	26	17S	32E	4016	4274	2.375	800
30-025-39402	481	M	28	17S	32E	3776	4035	2.375	755
30-025-39403	485	K	28	17S	32E	3784	3999	2.375	755
30-025-39355	486	I	28	17S	32E	3830	4051	2.375	765
30-025-39432	489	A	33	17S	32E	3914	4166	2.375	785
30-025-39322	491	C	33	17S	32E	3852	4186	2.375	770
30-025-39433	492	G	33	17S	32E	3894	4180	2.375	780
30-025-39766	480	O	28	17S	32E	3543	4298	2.375	710
30-025-39409	472	E	27	17S	32E	3505	4277	2.375	700

check depths

3858-4090' — 480 well

3804-4036 — 472 well

Check with
Jalyn