

886
PTGW

DATE IN 4.25.11	SUSPENSE	ENGINEER TW.	LOGGED IN 4.25.11	TYPE WFX	APP NO. 1111553389
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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
217877
2011 APR 25 A 11:17

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]

12 MCA W66

- [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 _____

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

- [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.

JAVUN N. FISKE
Print or Type Name

Signature

REG. SPECIALIST
Title

4-8-11
Date

JAVUN.N.FISKE@CONOCOPHILLIPS.COM
e-mail Address

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT SUMMARY PAGE

Nature of Permit

☒ New Permit
☒ Amend Existing Permit
☐ Injection Pressure Increase
☐ Renew Discharge Plan
☐ Other (Specify) _____

Number of Wells

☐ Single Well
☒ Multiple Wells
12 Specify Number Wells

Approval Process

☒ Administrative
☐ Hearing
 If Hearing:
 Case No. _____
 Order No. R- _____

Reviewer

☐ Ezeanyim
☐ Brooks
☐ Jones
☒ Warnell

Quarter in which Permit Issued

☐ 1st (October-December)
☐ 2nd (January-March)
☒ 3rd (April-June)
☐ 4th (July-September)

Type of Permit

☐ SWD Well
☐ Waterflood or Pressure
☐ Maintenance Injection Well
☐ Class III Brine Well
☐ Other (Specify) _____

Final Outcome

☐ Application Approved
☐ Application Denied
☐ Application Returned

886 Permit Number

5/18/11 Permit Date

ConocoPhillips (217817) Operator

Area of Review (AOR) Well Data

Area of Review Wells

160 Total Number of Area of Review Wells
59 Plugged and Abandoned Area of Review Wells
99 Active Area of Review Wells

Area of Review Wells to be Repaired

0 P&A Wells
0 Active Wells

Injection/Disposal Well Classification

0 New Wells (Wells were Drilled After March 7, 1982 – New Mexico Primacy Date)
12 Existing Wells (Wells were Drilled Prior to March 7, 1982)

API	MCA		Sec	Tsp	Rge	Open Hole Interval		Tubing	Pressure
	Well #	Unit				Top	Bottom		
30-025-38972-00-00	399	K	27	17S	32E	3880	4130	2.375	2150
30-025-38975	404	M	26	17S	32E	4041	4271	2.375	2150
30-025-38856-00-00	411	C	33	17S	32E	3883	4125	2.375	2150
30-025-38982-00-00	414	O	27	17S	32E	4028	4202	2.375	2150
30-025-38986-00-00	418	M	27	17S	32E	3934	4159	2.375	2150
30-025-38987	419	M	27	17S	32E	3955	4205	2.375	2150
30-025-38989-00-00	420	A	33	17S	32E	3973	4225	2.375	2150
30-025-39318	462	K	26	17S	32E	4075	4298	2.375	2150
30-025-39320-00-00	474	I	27	17S	32E	3945	4183	2.375	2150
30-025-39349-00-00	475	I	27	17S	32E	3916	4170	2.375	2150
30-025-39351-00-00	478	O	28	17S	32E	3884	4126	2.375	2150
30-025-39353-00-00	483	I	28	17S	32E	3822	4018	2.375	2150



Warnell, Terry G, EMNRD

From: Fiske, Jalyn N [Jalyn.Fiske@conocophillips.com]
Sent: Tuesday, April 26, 2011 12:09 PM
To: Warnell, Terry G, EMNRD
Subject: RE: WFX Application
Attachments: 12 MCA wells CORRECTED.xlsx

I've corrected everything that is highlighted in yellow (attached). Also, all of the pressures are incorrect, we had a hearing in 2010 to amend the original waterflood order to grant a blanket 2150psi to all injection wells (R-2403-B). I think that's everything, thanks.

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: Monday, April 25, 2011 4:48 PM
To: Fiske, Jalyn N
Subject: WFX Application

Hi Jalyn,

Please verify all the attached data and add the two missing API No.'s
Thanks,
Terry

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: X Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage _____
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: CONOCOPHILLIPS COMPANY
ADDRESS: 3300 N. "A" STREET / BLDG. 6 / MIDLAND, TX 79705
CONTACT PARTY: JALYN FISKE PHONE: _____
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- 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-6157
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. ATTACHED
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. ATTACHED
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. PREVIOUSLY SUBMITTED
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. PREVIOUSLY SUBMITTED
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. N/A
- 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: 4-8-11
E-MAIL ADDRESS: JALYN.FISKE@CONOCOPHILLIPS.COM
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

- VII.
 - 1. a. Average injection rate: 350 barrels of water per day
 - b. Maximum injection rate: 1000 barrels of water per day
 - 2. a. Open
 - 3. a. Average – 2100 psi
 - b. Maximum – 2150 psi
 - 4. a. Produced Water will be used as the injection fluid
 - 5. a. N/A
- IX. Injection wells have been acid stimulated in the San Andres and fracture stimulated in the Grayburg as a part of their initial production completion. No new stimulation will be performed with the conversion to injection.
- X. Wells that have been previously drilled, which includes all wells seeking approval in this application, have already had logs submitted to the Division.



Water Analysis Report

4/14/2009

Address:

Customer: Conoco Phillips

Attention: Dennis Ross

Lease: MCA

Formation:

Salesman: Corey Hodnett

CC:

Target Name: MCA 238

Sample Point: MCA 238

Sample Date: 04/13/2009

Test Date: 04/14/2009

Water Analysis(mg/L)

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

Appended Data(mg/L)

CO2	
H2S	
Iron	0
Oxygen	

Additional Data

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

Physical Properties

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

Dew Poin	
Lead	
Zinc	

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

SI & PTB Results

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

Exhibit # 1

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 399WELL LOCATION: 2130' FSL & 1330' FWL "K"

FOOTAGE LOCATION

UNIT LETTER

27 - T17S - R32E

SECTION TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"Cemented with: 570

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"Cemented with: 700

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4348'Injection Interval3880'

feet to

4130'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

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

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

Additional Data

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

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

2. Name of the Injection Formation: GRAYBURG - 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: _____

QUEEN 3210' - 3575'

INJECTION WELL DATA SHEET

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

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27-T17S-R32EWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

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

Intermediate Casing

Hole Size: 12 - 1/4" Casing Size: 8 5/8"
Cemented with: 570 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 750 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Total Depth: 4523'Injection Interval4041' feet to 4271'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

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

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

Additional Data

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

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

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

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

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

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

QUEEN 3371' - 3747'

INJECTION WELL DATA SHEET

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

"C"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

33 - T17S - R32E

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: 17 1/2" Casing Size: 13 3/8"Cemented with: 100 sx. or ft³Top of Cement: SURFACE Method Determined: _____Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or ft³Top of Cement: SURFACE Method Determined: _____Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 1000 sx. or ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4345'Injection Interval3883' feet to 4125'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

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

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

Additional Data

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

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

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

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

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

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

QUEEN 3201' - 3570'

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPhillips COMPANYWELL NAME & NUMBER: MCA UNIT 414WELL LOCATION: 660' FSL @ 2630' FEL"0"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 700 sx. or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4510'Injection Interval4028' feet to 4202'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 4.7 # J-55 Lining Material: (I.P.C) TK-99Type of Packer: 5 1/2" 17# HAWBURTON-G6 NICKEL PLATEDPacker Setting Depth: ~ 3900 FT (w/in 100 FT OF TOP PERF)

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

Additional Data

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

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

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

GREEN 3348' - 3721'

INJECTION WELL DATA SHEET

OPERATOR: CONOCO PHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 4118WELL LOCATION: 1310' FSL & 460' FWL

"M"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27-T17S-R32E

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

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

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 570 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 750 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Total Depth: 4380'Injection Interval2934' feet to 4159'(Perforated or Open Hole; indicate which)

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

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

Additional Data

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

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

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

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

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

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

QUEEN 3240' - 3612'

INJECTION WELL DATA SHEET

OPERATOR: CONOCO PHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 419WELL LOCATION: 660' FSL & 145' FWL

"M"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

27- T17S - R32E

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

Total Depth: 4375'Injection Interval3955'

feet to

4205'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" 47 # J-55 Lining Material: (I.P.C.) TK-99Type of Packer: 5 1/2" 17 # HALIBURTON - G6 NICKEL PLATEDPacker Setting Depth: ~ 3900 FT (W/IN 100 FT OF TOP PERF)

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

Additional Data

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

Yes X No _____If no, for what purpose was the well originally drilled? OIL PRODUCER2. Name of the Injection Formation: GRAYBURG - SAN ANTONIO3. Name of Field or Pool (if applicable): MALJAMAR; GRAYBURG - SAN ANTONIO4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

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

QUEEN 3256' - 3625

INJECTION WELL DATA SHEET

OPERATOR: CONACOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 420WELL LOCATION: 10' FWL & 525' FEL"A"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

Intermediate CasingHole Size: 12 1/4"Casing Size: 8 5/8"Cemented with: 570

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Production CasingHole Size: 7 7/8"Casing Size: 5 1/2"Cemented with: 1000

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4385'Injection Interval3973'

feet to

4225'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8", 47 #, J-55 Lining Material: (I.P.C.) TK-99Type of Packer: 5 1/2", 17 #, HALLIBURTON - G6, NICKEL PLATEDPacker Setting Depth: ~3900 FT (W/IN 100 FT OF TOP PERF)

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

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

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

GREEN 3286' - 3646'

INJECTION WELL DATA SHEET

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

"K"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

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

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 570 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 861 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: _____

Total Depth: 4480'Injection Interval4075' feet to 4218'(Perforated or Open Hole, indicate which)

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

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

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

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

QUEEN 3370' - 3753'

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILIPS COMPANYWELL NAME & NUMBER: MCA UNIT 474WELL LOCATION: 2100' FSL # 1180' FEL"I"27- T17S - R32E

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. _____ or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"Cemented with: 570 sx. _____ or _____ ft³Top of Cement: SURFACE Method Determined: _____Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 950 sx. _____ or _____ ft³Top of Cement: SURFACE Method Determined: _____Total Depth: 4390'Injection Interval3945' feet to 4183'(Perforated or Open Hole indicate which)

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

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

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

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

QUEEN 3279' - 3653'

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 475WELL LOCATION: 2580' FSL & 810' FEL

"I"

27-17S-R32E

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4405'Injection Interval3914'

feet

to 4170'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

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

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

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

Additional Data

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

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

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

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

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

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

QUEEN 3264' - 4035'

INJECTION WELL DATA SHEET

OPERATOR: CONOCOPHILLIPS COMPANYWELL NAME & NUMBER: MCA UNIT 478WELL LOCATION: 740' FSL # 2630' FEL"0"

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

28-TAS-R32EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

SURFACE

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

SURFACE

Method Determined: _____

Total Depth: 4200'Injection Interval3884'feet to 4126'(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8", 4.7 #, J-55 Lining Material: (I.P.C) TK-99Type of Packer: 5 1/2", 17 #, HAWBURTON - G6 NICKEL PLATEDPacker Setting Depth: ≈ 3900 FT (w/in 100 FT OF TOP PERF)

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

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

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

QUEEN 3186' - 3986'

INJECTION WELL DATA SHEET

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

"I"

28- T17S - R32E

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____

sx. _____

or _____

ft³ _____

Top of Cement: _____

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

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

Cemented with: _____

sx. _____

or _____

ft³ _____Top of Cement: SURFACE

Method Determined: _____

Total Depth: 4208'Injection Interval3822'

feet

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

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.7# J-55 Lining Material: (I.P.C.) TK-99
 Type of Packer: 5 1/2" 17# HALIBURTON - G6 NICKEL PLATED
 Packer Setting Depth: ~ 3900 FT (15/IN 100 FT OF TOP PERF)
 Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

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

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

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

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

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

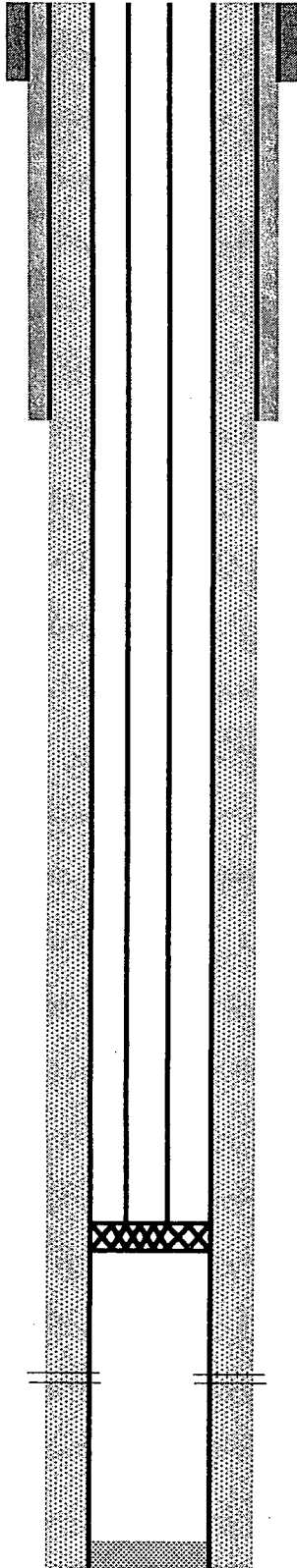
QUEEN 3147' - 2912'

Actual Wellbore Diagrams

WELLBORE DIAGRAM

MCA UNIT #399

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



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

Lease and Well No.:
Location:

MCA UNIT #399
Sec. 27, T17S-R32E

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

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

Perforations

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

Proposed Injection

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

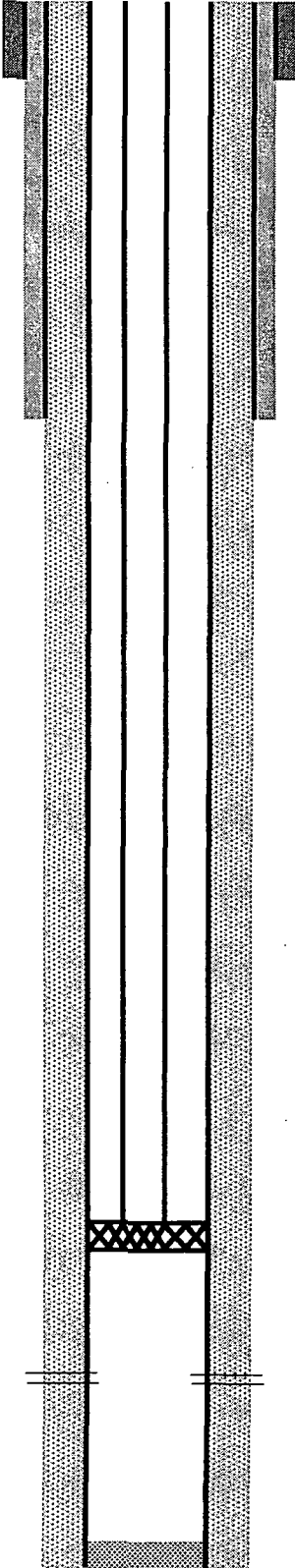
7-7/8" Hole
5-1/2" @ 4337'
TOC @ surface
circulated
700 sxs

T.D.: 4348'

WELLBORE DIAGRAM

MCA UNIT #404

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



Lease and Well No.:
Location:

MCA UNIT #404
Sec. 26, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Majamar

Spud Date:

2/27/2009

API Number:

30-025-38975

Status:

Completed

Perforations

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

Proposed Injection

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

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

T.D.: 4523'

WELLBORE DIAGRAM

MCA UNIT #411

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

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

Lease and Well No.:
Location:

MCA UNIT #411
Sec. 28, T17S-R32E

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

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

External Casing Packer @ 881-899'

Perforations

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

Proposed Injection

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

External Casing Packer @ 3806-3824'

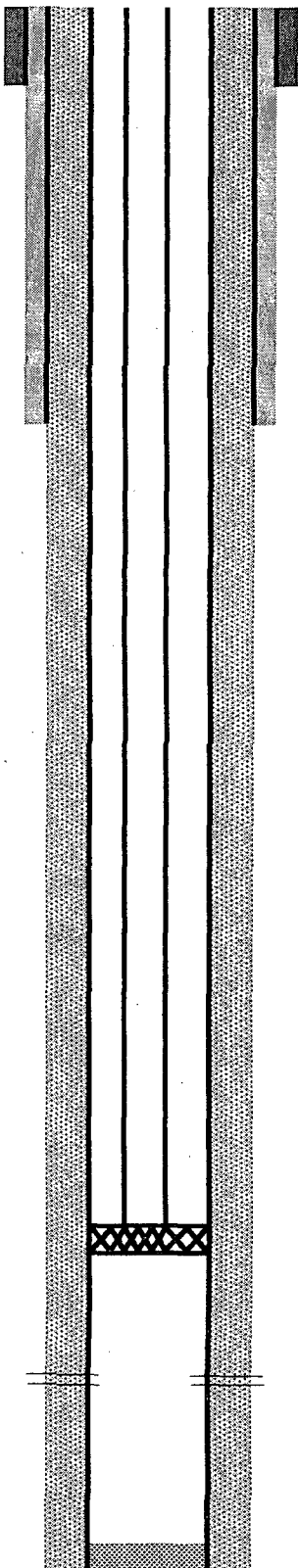
7-7/8" Hole
5-1/2" @ 4334'
TOC @ surface
circulated
800 sxs in first stage
200 sxs in second stage

T.D.: 4345'

WELLBORE DIAGRAM

MCA UNIT #414

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



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

Lease and Well No.:
Location:

MCA UNIT #414
Sec. 27, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

Spud Date:

1/4/2009

API Number:

30-025-38982

Status:

Completed

Perforations

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

Proposed Injection

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

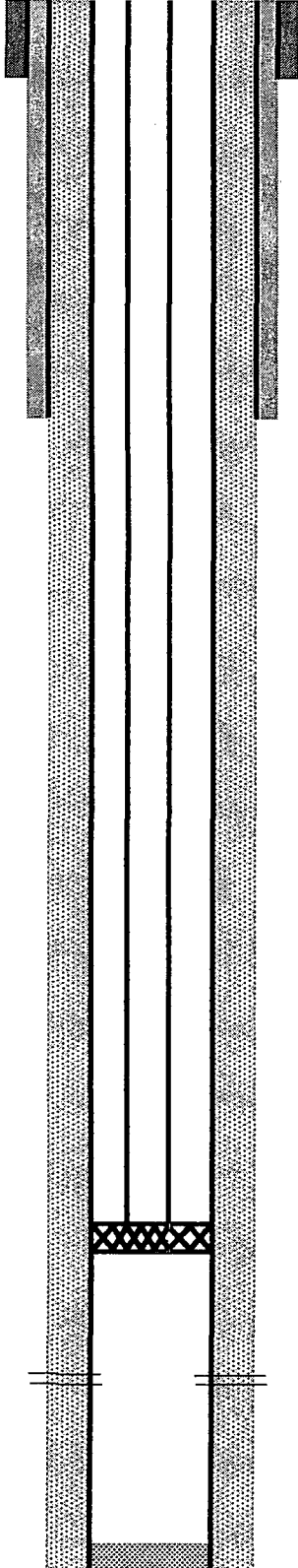
7-7/8" Hole
5-1/2" @ 4499'
TOC @ surface
circulated
700 sxs

T.D.: 4510'

WELLBORE DIAGRAM

MCA UNIT #418

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



12-1/4" Hole
8-5/8" @ 970'
TOC @ surface
circulate
570 sx cmt.

Lease and Well No.:
Location:

MCA UNIT #418
Sec. 27, T17S-R32E

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

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

Perforations

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

Proposed Injection

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

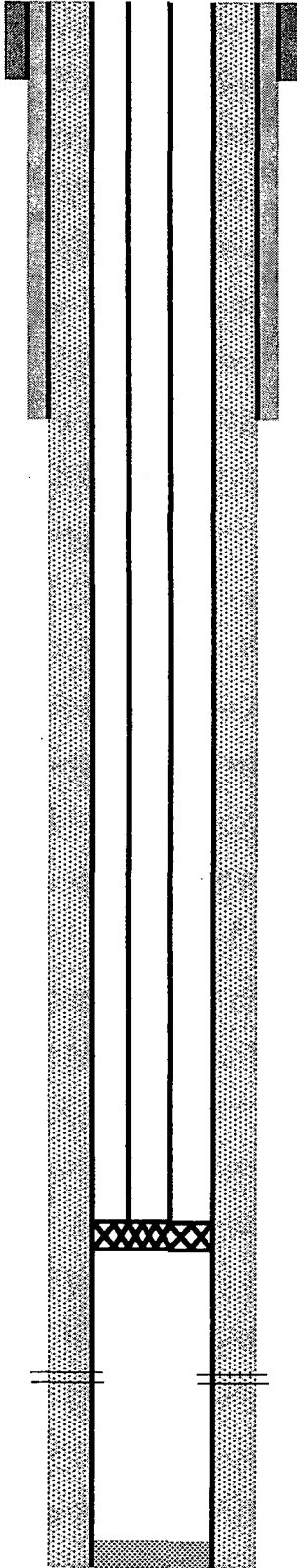
7-7/8" Hole
5-1/2" @ 4364'
TOC @ surface
circulated
750 sxs

T.D.: 4380'

WELLBORE DIAGRAM

MCA UNIT #419

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



Lease and Well No.:
Location:

MCA UNIT #419
Sec. 27, T17S-R32E

County/State:

Lea County, New Mexico

Field:

Maljamar

Spud Date:

12/23/2009

API Number:

30-025-38987

Status:

Completed

Perforations

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

Proposed Injection

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

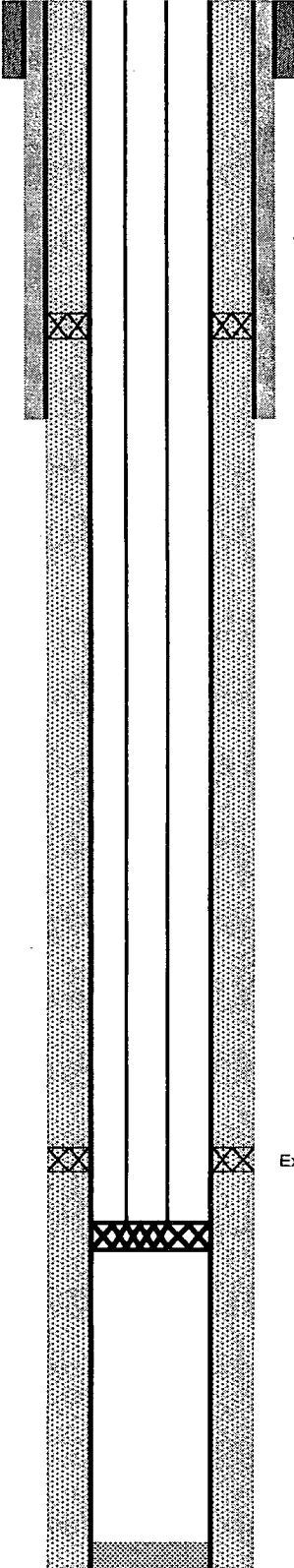
7-7/8" Hole
5-1/2" @ 4360'
TOC @ surface
circulated
715 sxs

T.D.: 4375'

WELLBORE DIAGRAM

MCA UNIT #420

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



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

Lease and Well No.:
Location:

MCA UNIT #420
Sec. 28, T17S-R32E

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

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

External Casing Packer @ 950-976'

Perforations

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

Proposed Injection

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

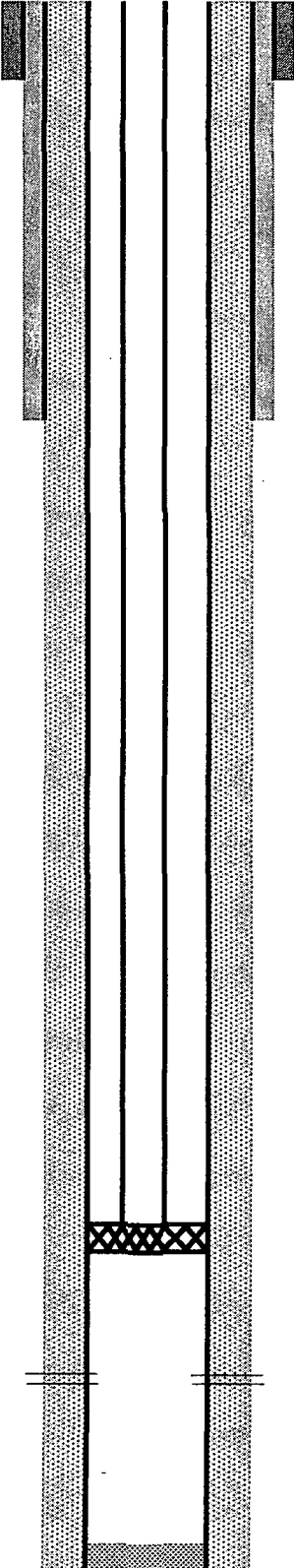
External Casing Packer @ 3879-3897'

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

T.D.: 4385'

WELLBORE DIAGRAM
MCA UNIT #462

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



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

Lease and Well No.:
Location:

MCA UNIT #462
Sec. 26, T17S-R32E

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

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

Perforations

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

Proposed Injection

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

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

T.D.: 4480'

WELLBORE DIAGRAM

MCA UNIT #474

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

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

Lease and Well No.:
Location:

MCA UNIT #474
Sec. 27, T17S-R32E

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

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

External Casing Packer @ 891-923'

Perforations

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

Proposed Injection

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

External Casing Packer @ 3863-3895'

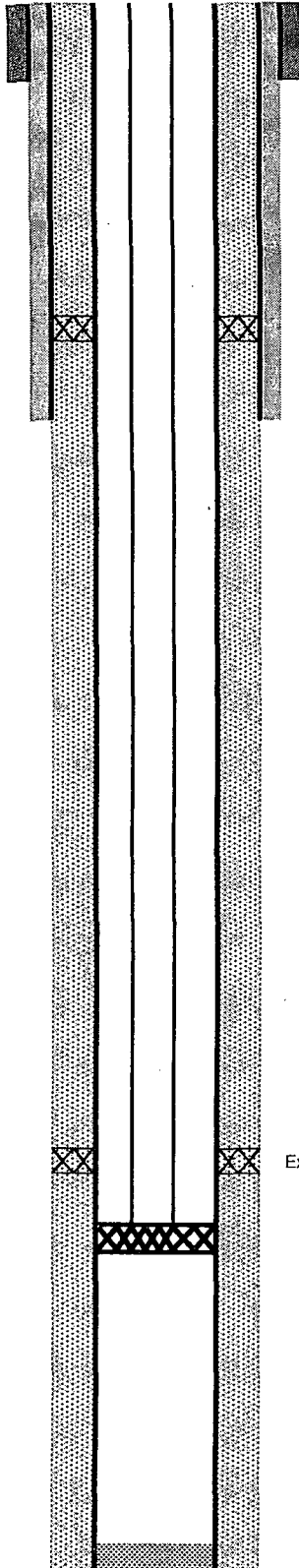
7-7/8" Hole
5-1/2" @ 4378'
TOC @ surface
circulated
750 sxs in first stage
200 sxs in second stage

T.D.: 4390'

WELLBORE DIAGRAM
MCA UNIT #475

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

12-1/4" Hole
3-5/8" @ 1000'
TOC @ surface
circulate
570 sx cmt.



Lease and Well No.:
Location:

MCA UNIT #475
Sec. 27, T17S-R32E

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

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

External Casing Packer @ 917-951'

Perforations

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

Proposed Injection

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

External Casing Packer @ 3844-3877'

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

T.D.: 4405'

WELLBORE DIAGRAM

MCA UNIT #478

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

12-1/4" Hole
8-5/8" @ 924'
TOC @ surface
circulate
570 sx cmt.

Lease and Well No.:
Location:

MCA UNIT #478
Sec. 28, T17S-R32E

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

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

Perforations

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

Proposed Injection

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

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

T.D.: 4200'

WELLBORE DIAGRAM

MCA UNIT #483

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

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

Lease and Well No.:
Location:

MCA UNIT #483
Sec. 28, T17S-R32E

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

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

External Casing Packer @ 843-875'

Perforations

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

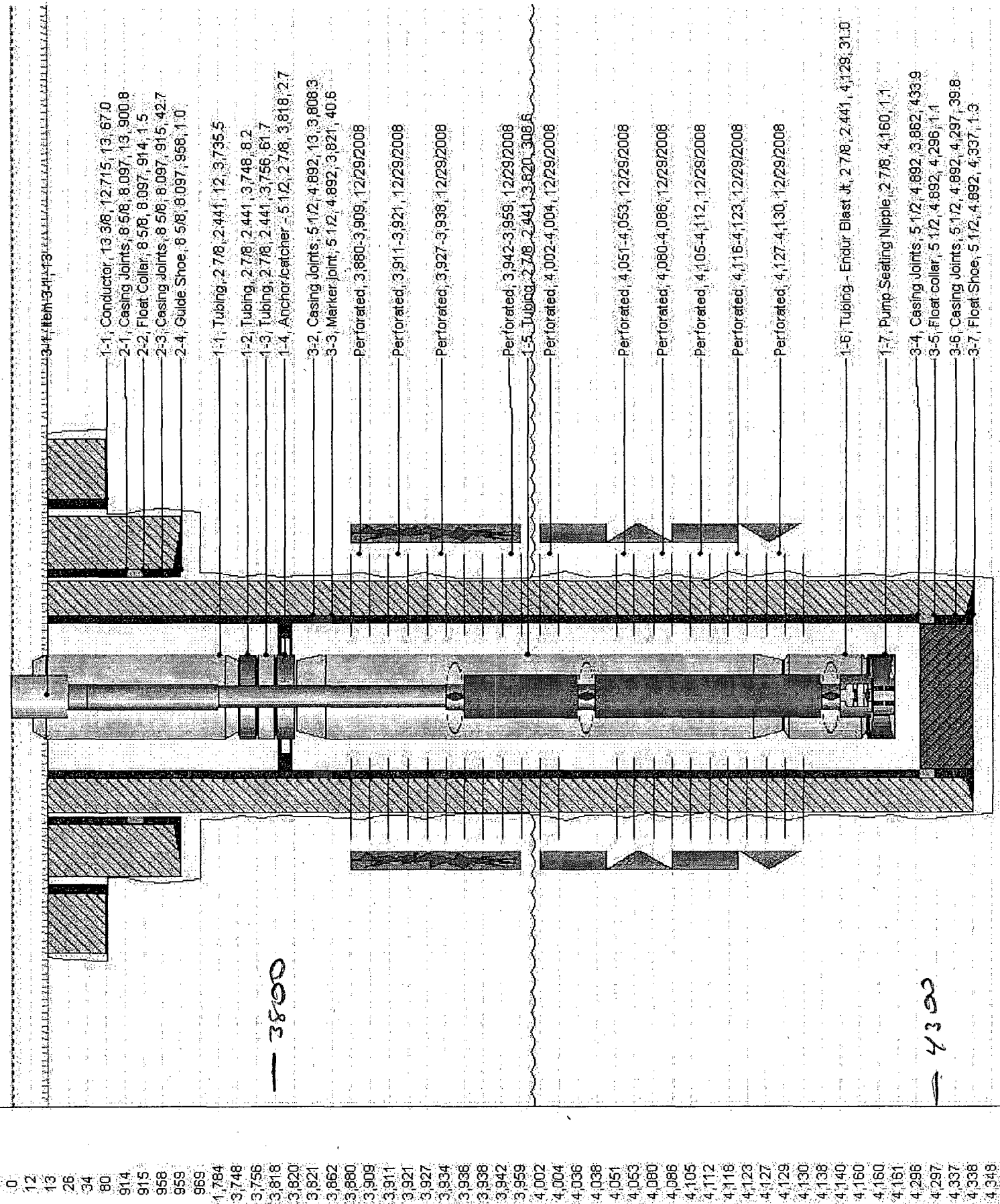
Proposed Injection

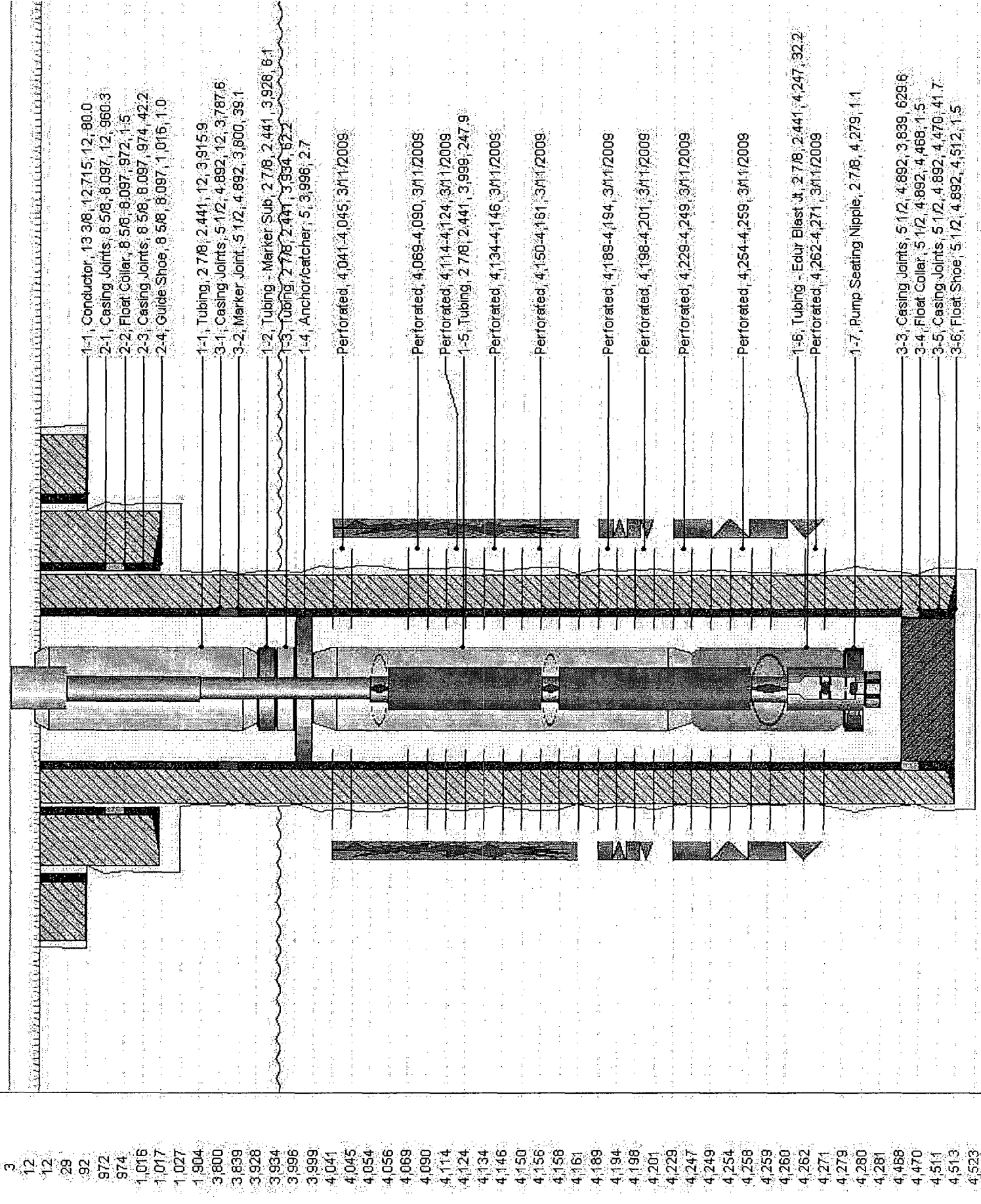
Tubing 2-3/8" 4.6# J-55 w/ IPC (TK-99)
Packer Nickel coated 5-1/2" set within 100 ft of 3822'

External Casing Packer @ 3764-3796'

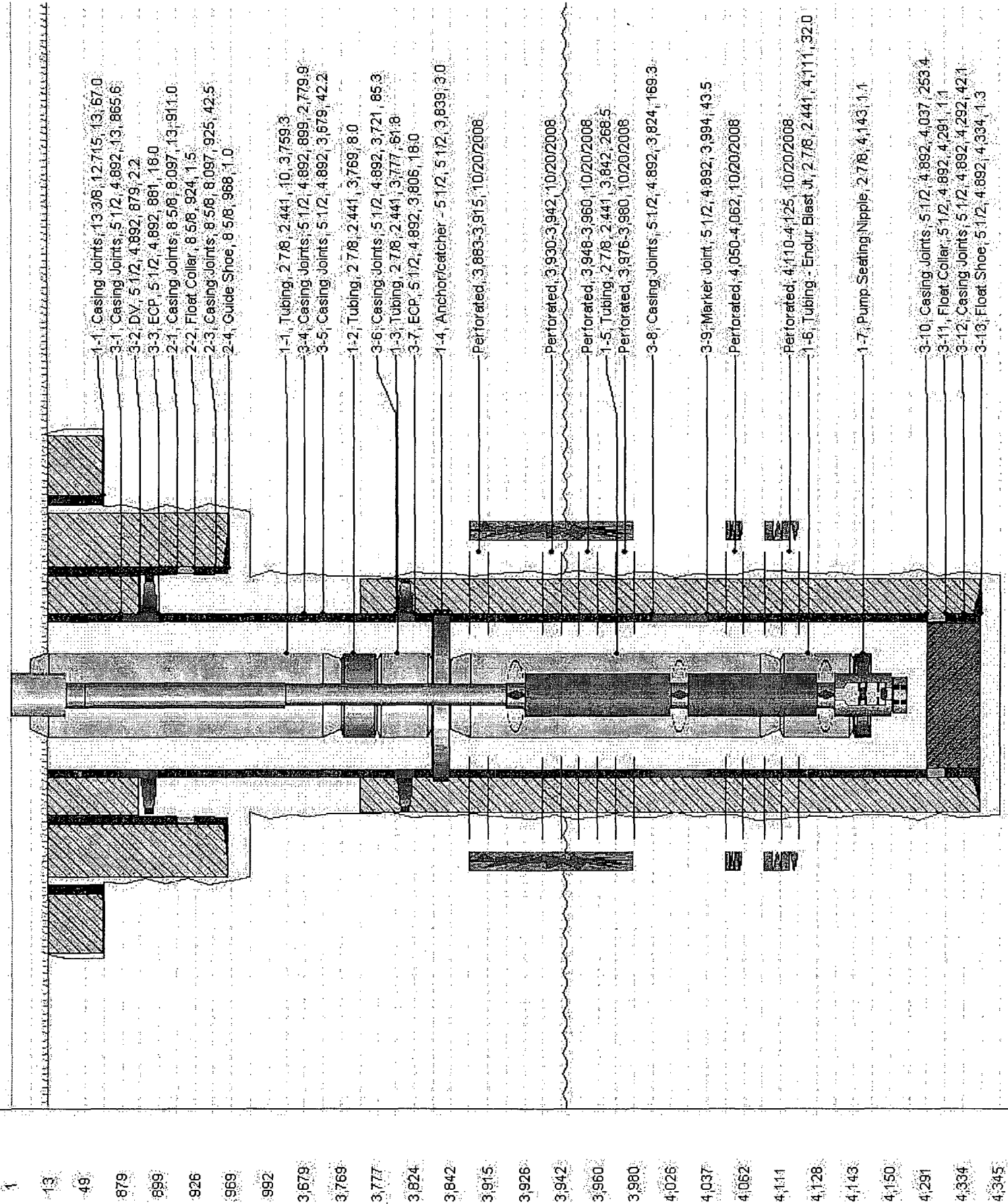
7-7/8" Hole
5-1/2" @ 4075'
TOC @ surface
circulated
800 sxs in first stage
200 sxs in second stage

T.D.: 4208'



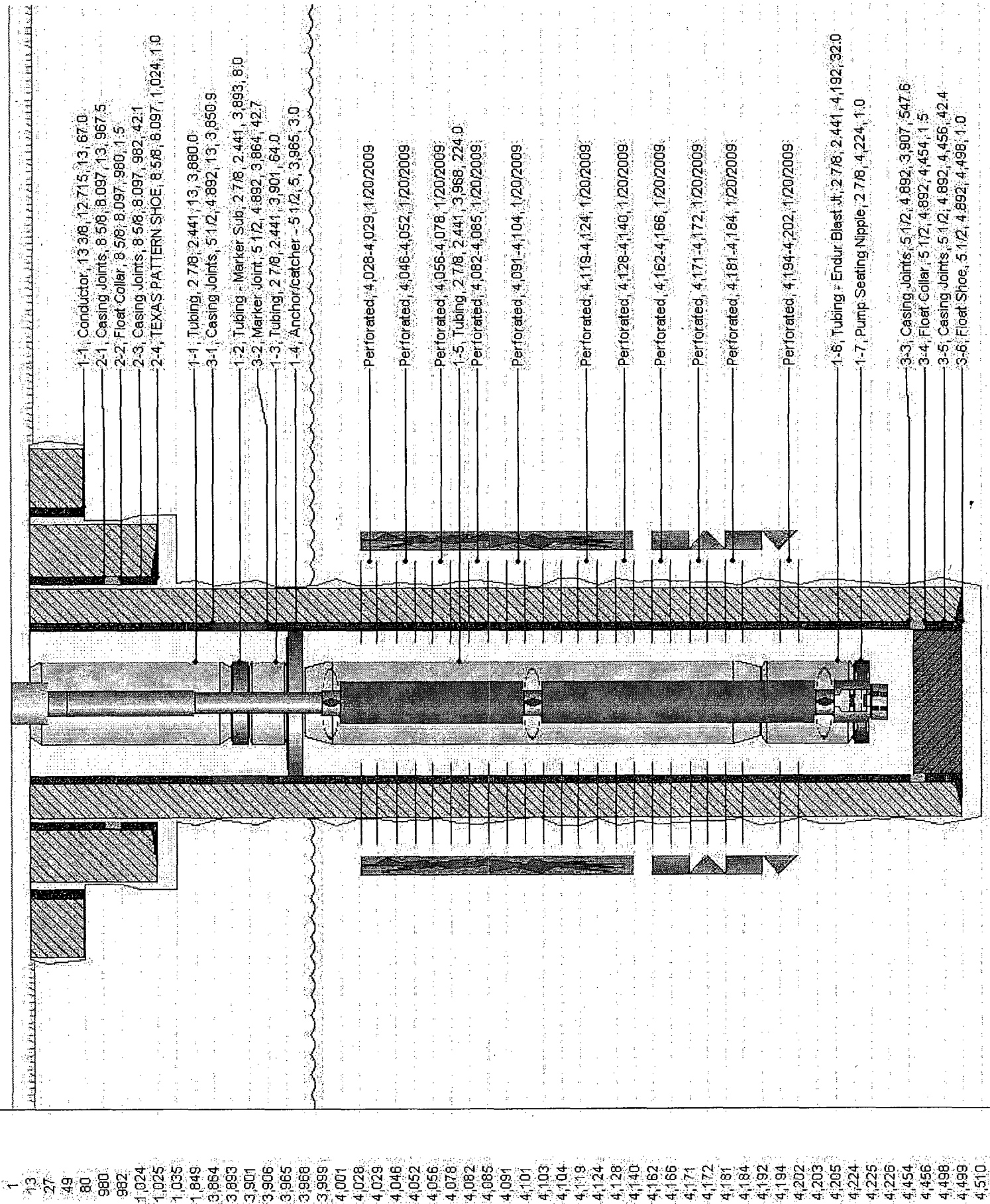


3
12
12
29
92
972
974
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1,017
1,027
1,904
3,800
3,839
3,928
3,934
3,996
3,999
4,041
4,045
4,054
4,056
4,069
4,090
4,114
4,124
4,134
4,146
4,150
4,156
4,158
4,161
4,189
4,194
4,198
4,201
4,229
4,247
4,249
4,254
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4,259
4,260
4,262
4,271
4,279
4,280
4,281
4,468
4,470
4,511
4,513
4,523



1
 13
 49
 879
 899
 926
 969
 992
 3 679
 3 769
 3 777
 3 824
 3 842
 3 915
 3 926
 3 942
 3 960
 3 980
 4 026
 4 037
 4 062
 4 111
 4 128
 4 143
 4 150
 4 291
 4 334
 4 345

TKB (MD)



1
 13
 27
 49
 80
 980
 982
 1024
 1025
 1035
 1849
 3864
 3893
 3901
 3906
 3965
 3968
 3999
 4001
 4028
 4029
 4046
 4052
 4056
 4078
 4082
 4085
 4091
 4101
 4103
 4104
 4119
 4124
 4128
 4140
 4162
 4166
 4171
 4172
 4181
 4184
 4192
 4194
 4202
 4203
 4205
 4224
 4225
 4226
 4454
 4456
 4498
 4499
 4510

ftKB (MD)

6

31

80

927

970

1,650

1,940

3,600

3,737

3,798

3,810

3,865

3,934

3,947

3,967

3,969

3,976

3,998

4,053

4,059

4,065

4,070

4,072

4,081

4,092

4,120

4,130

4,137

4,152

4,159

4,322

4,364

1-1, Conductor, 13,338, 12,715, 13,670

2-1, Casing Joints, 8,538, 8,097, 13,913.0

2-2, Float Collar, 8,538, 8,097, 926, 1.5

2-3, Casing Joints, 8,538, 8,097, 928, 40.7

2-4, Guide Shoe BULL NOSE, 8,538, 8,097, 968, 1.5

1-1, Tubing, 2,778, 2,441, 13,3723.7

1-2, Tubing - Marker Sub, 2,778, 2,441, 3,737, 6.1

1-3, Tubing, 2,778, 2,441, 3,745, 62.3

3-1, Casing Joints, 5,12, 4,892, 13,3785.1

1-4, Anchor/catcher - 5,12, 2,778, 3,807, 2.7

3-2, Marker Joint, 5,12, 4,892, 3,798, 43.3

1-5, Tubing, 2,778, 2,441, 3,810, 248.7

Perforated, 3,934-3,943, 1/9/2009

Perforated, 3,947-3,964, 1/9/2009

Perforated, 3,967-3,971, 1/9/2009

Perforated, 3,976-3,994, 1/9/2009

Perforated, 3,998-4,011, 1/12/2009

Perforated, 4,053-4,057, 1/9/2009

Perforated, 4,061-4,065, 1/9/2009

Perforated, 4,070-4,072, 1/9/2009

1-6, Tubing - Endur Blast Jt, 2,778, 2,441, 4,059, 32.0

Perforated, 4,076-4,081, 1/9/2009

1-7, Pump Sealing Nipple, 2,778, 4,091, 1.0

Perforated, 4,109-4,120, 1/9/2009

Perforated, 4,124-4,130, 1/9/2009

Perforated, 4,133-4,137, 1/9/2009

Perforated, 4,150-4,152, 1/12/2009

Perforated, 4,156-4,159, 1/9/2009

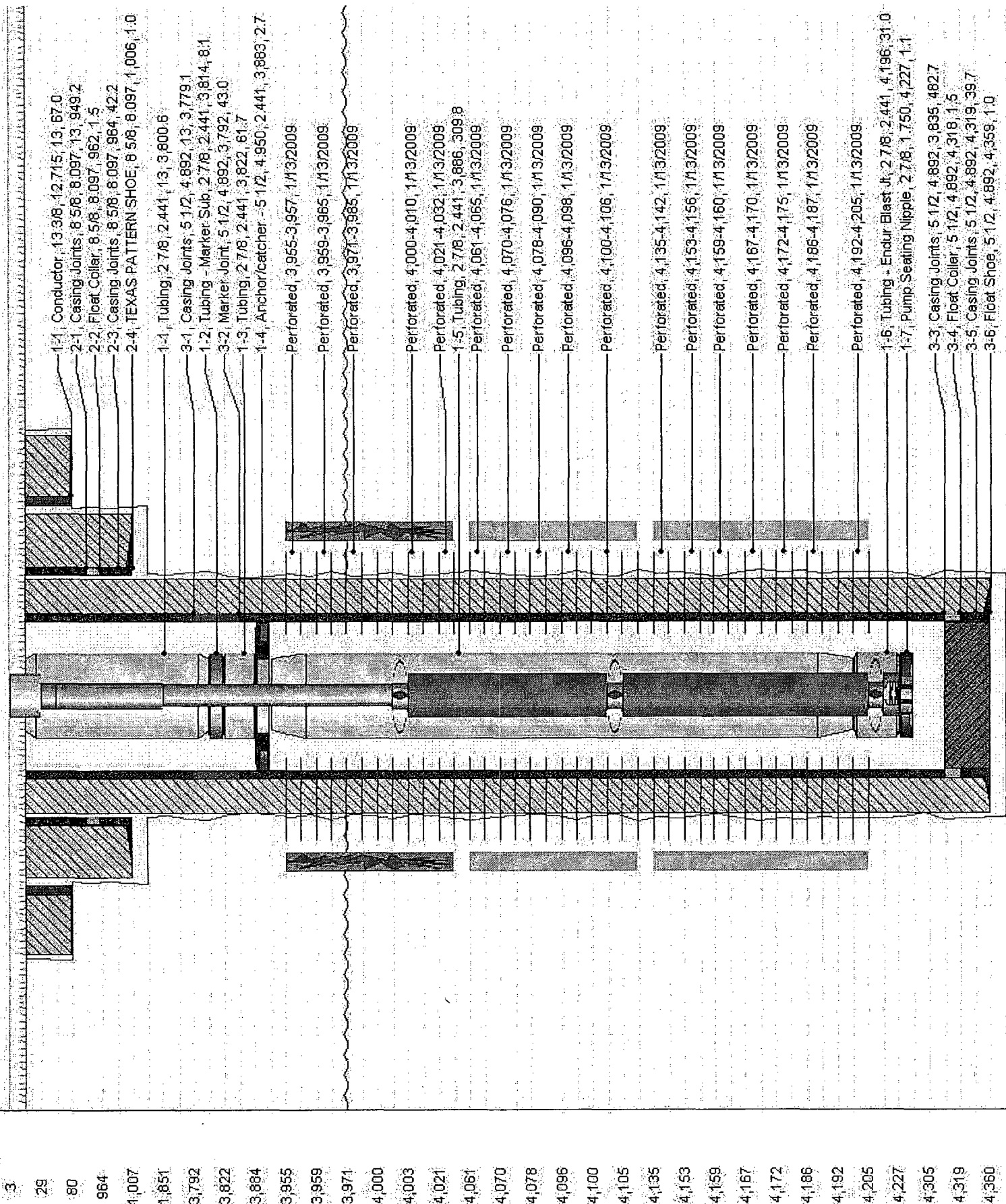
3-3, Casing Joints, 5,12, 4,892, 3,941, 478.9

3-4, Float Collar, 5,12, 4,892, 4,320, 1.5

3-5, Casing Joints, 5,12, 4,892, 4,322, 40.7

3-6, Float Shoe, 5,12, 4,892, 4,363, 1.5

ftKB (MD)



3

29

80

964

1,007

1,851

3,792

3,822

3,884

3,955

3,959

3,971

4,000

4,003

4,021

4,061

4,070

4,078

4,096

4,100

4,105

4,135

4,153

4,159

4,167

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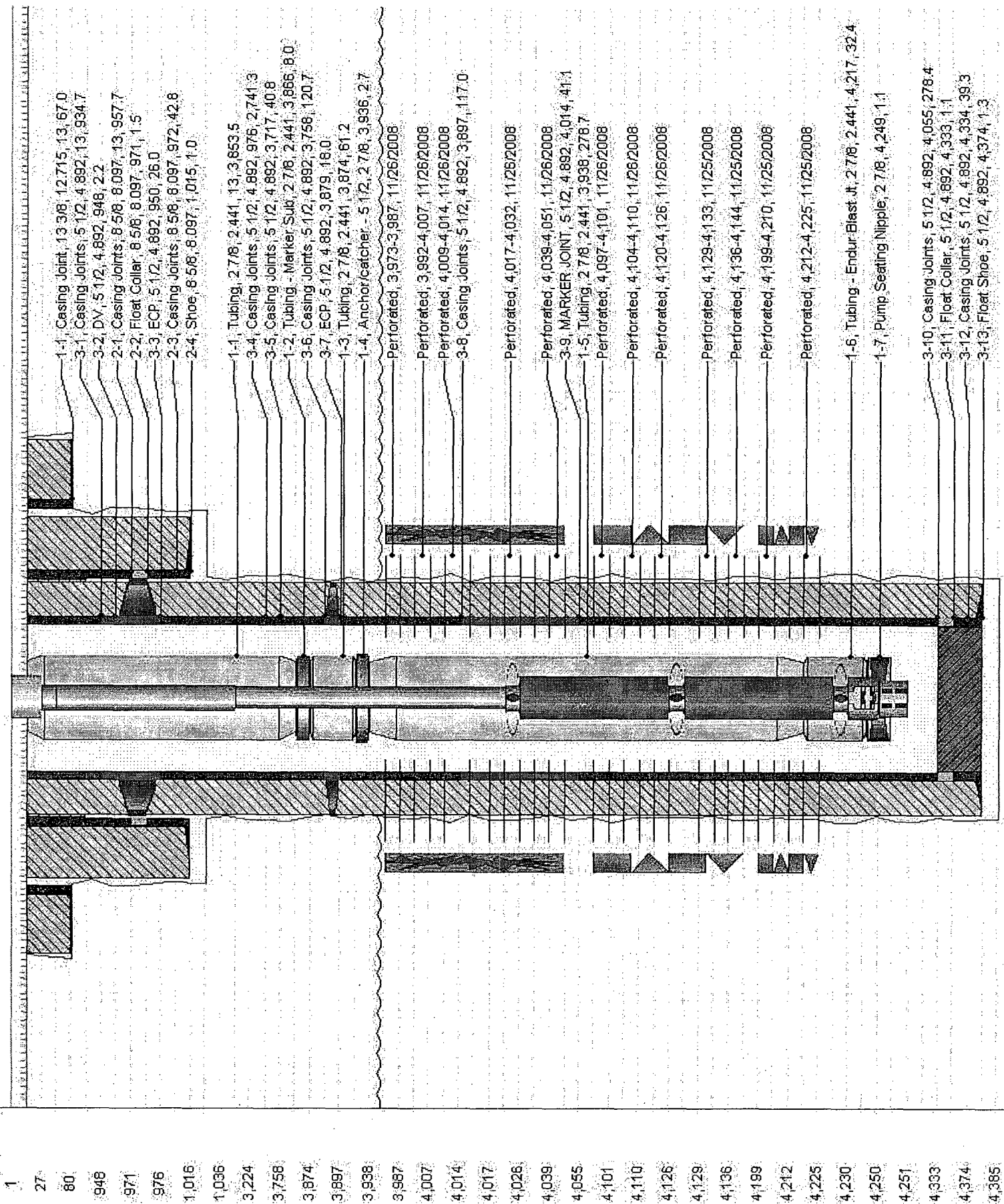
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4,319

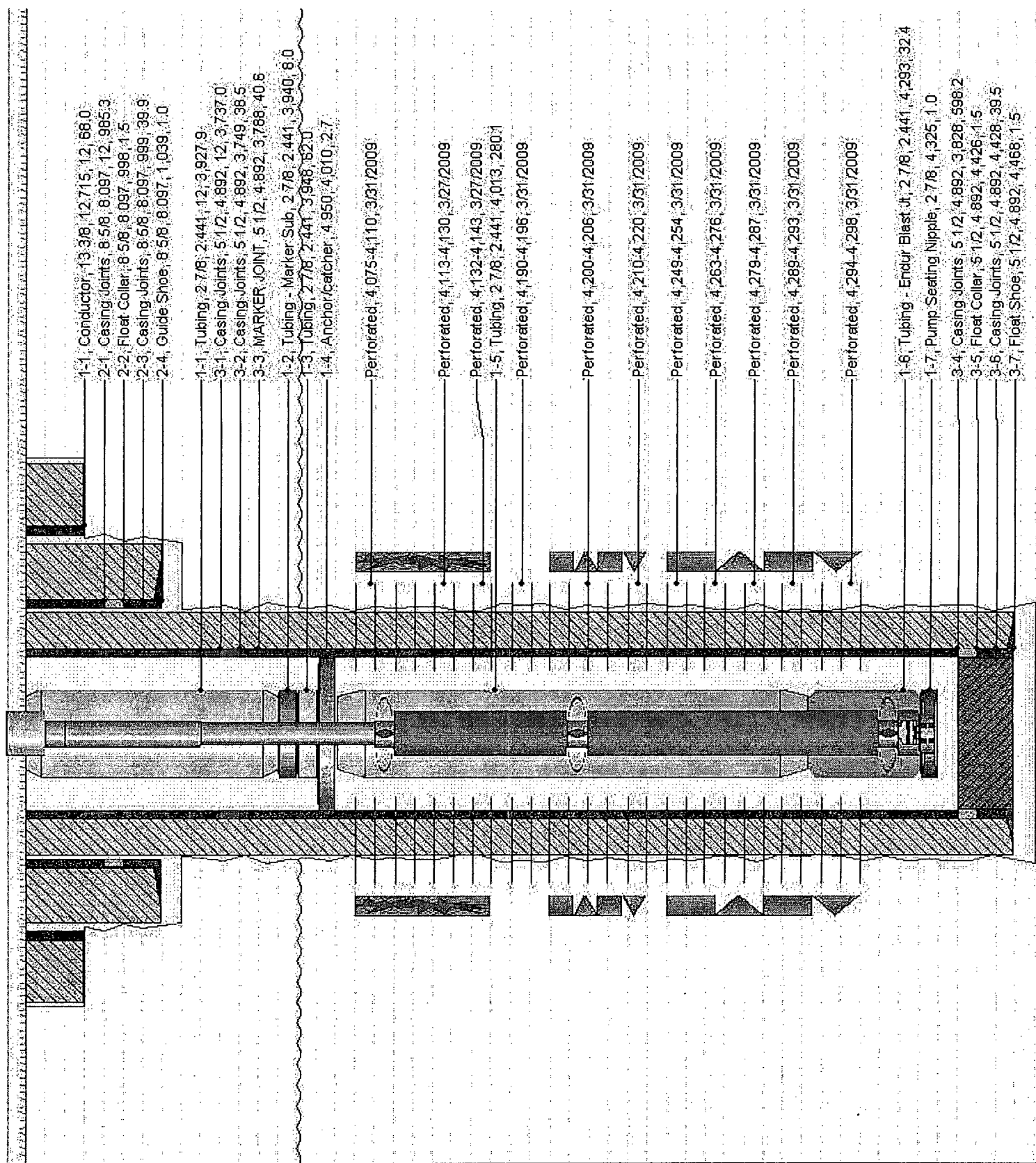
4,360

TKB (MD)

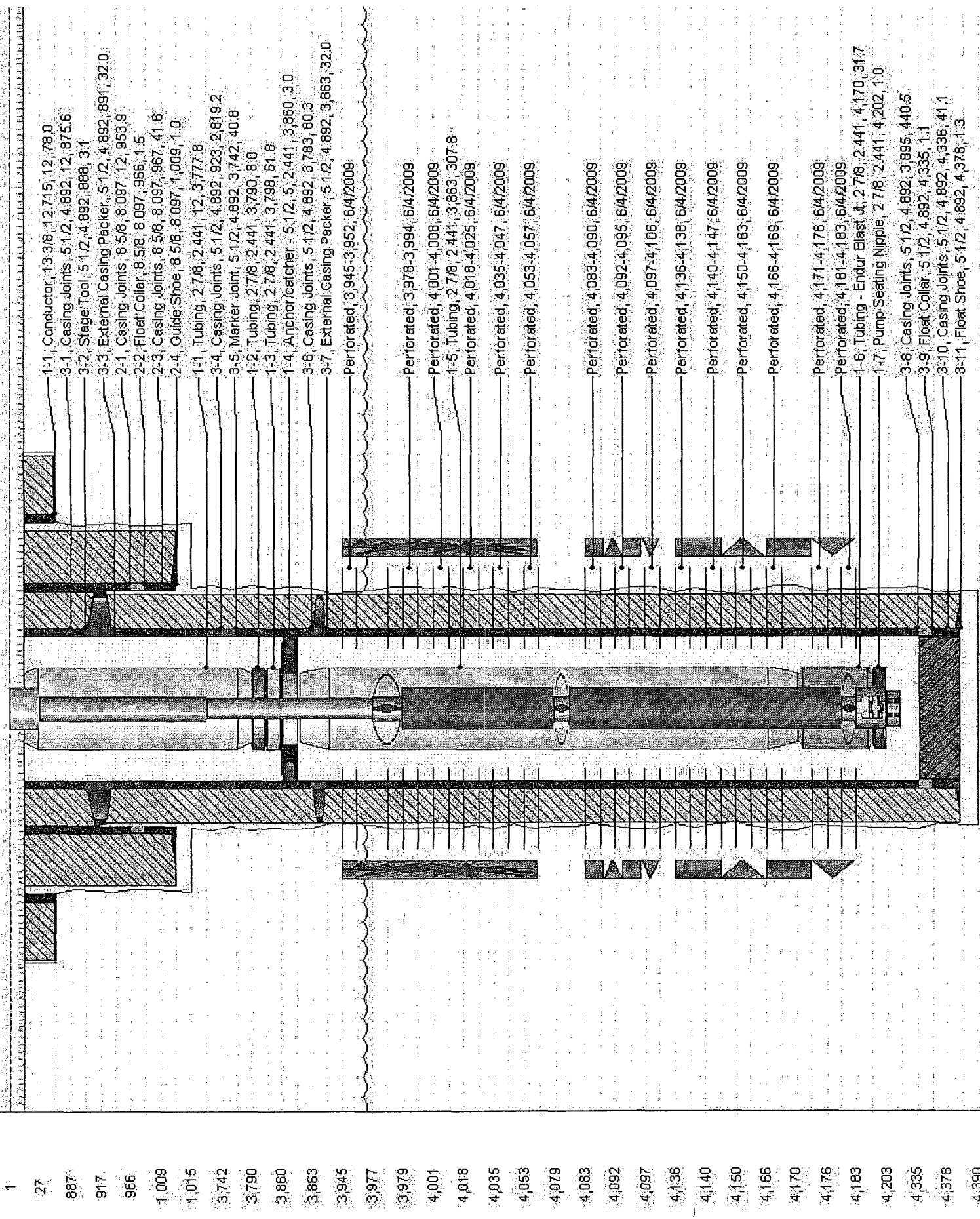


HK(B)(MD)

1
12
25
49
80
998
999
1,039
1,040
1,050
1,949
3,749
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3,828
3,940
3,948
4,010
4,013
4,075
4,099
4,101
4,110
4,113
4,130
4,132
4,143
4,190
4,196
4,200
4,201
4,203
4,206
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4,220
4,249
4,254
4,263
4,276
4,278
4,287
4,289
4,293
4,293
4,294
4,298
4,303
4,305
4,325
4,326
4,427
4,428
4,468
4,469
4,480



1



1

27

887

917

966

1,009

1,015

3,742

3,790

3,860

3,863

3,945

3,977

3,979

4,001

4,018

4,035

4,053

4,079

4,083

4,092

4,097

4,136

4,140

4,150

4,166

4,170

4,176

4,183

4,203

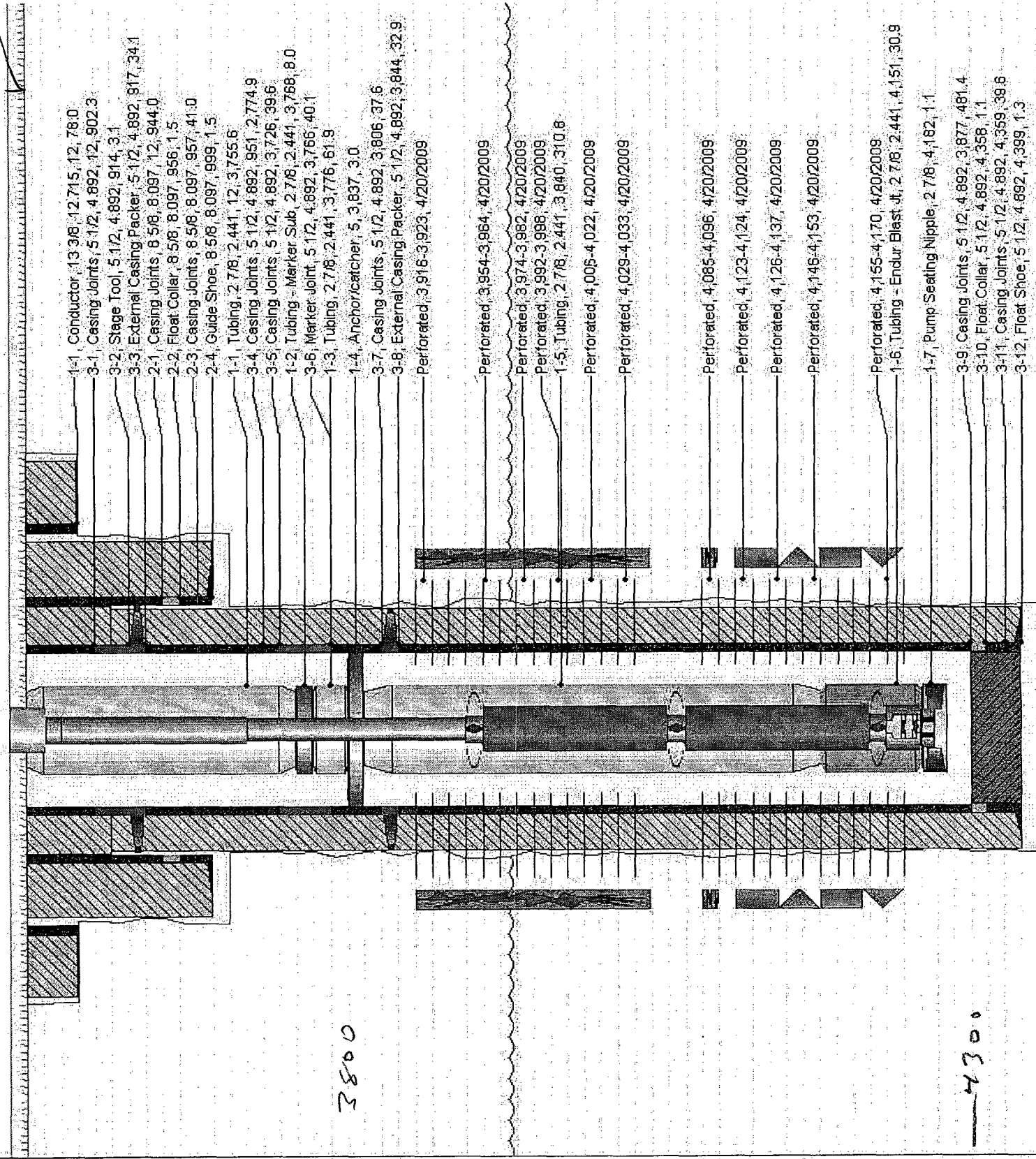
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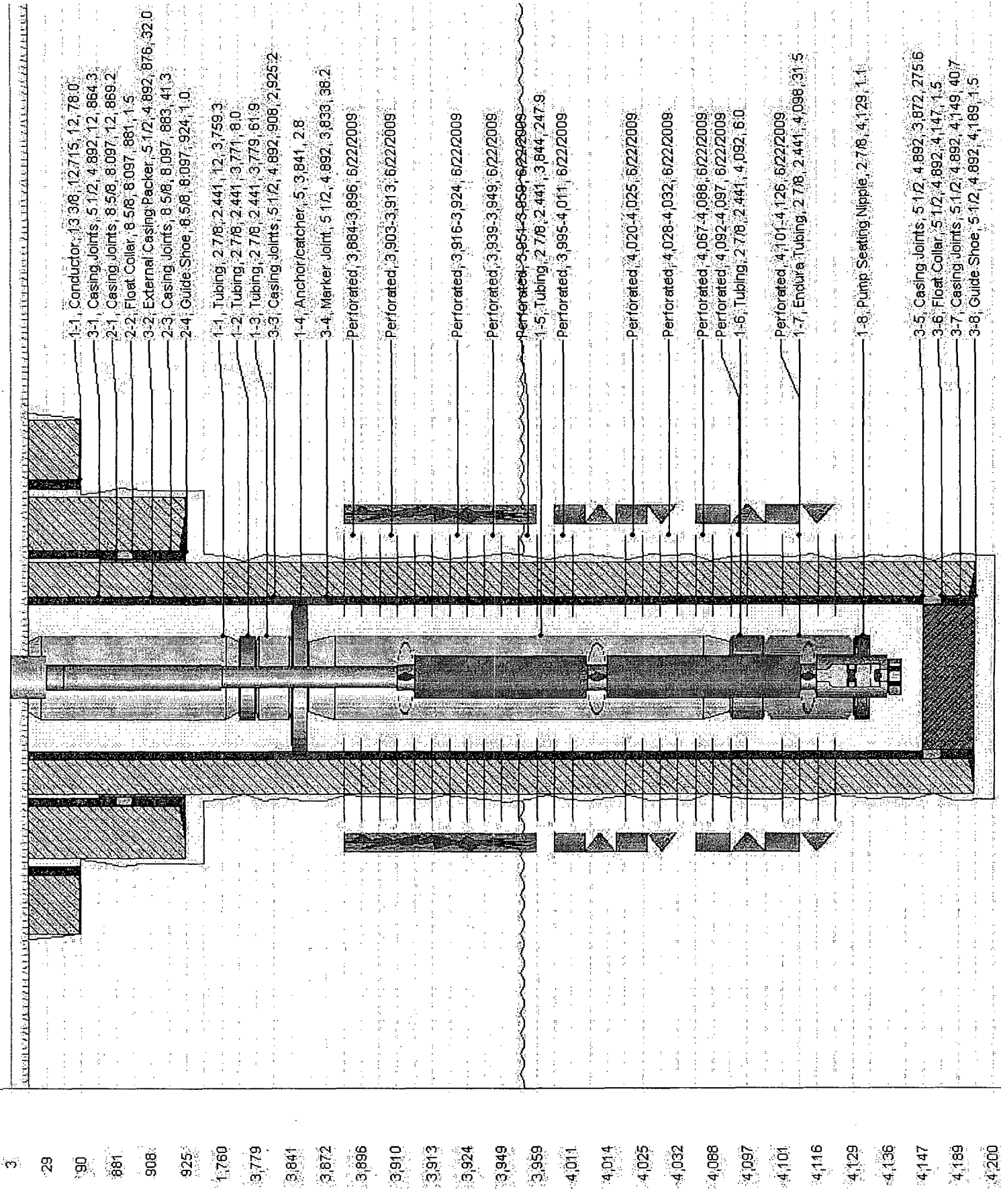
4,378

4,390

ftKB (MD)

3
 29
 90
 917
 951
 957
 1,000
 1,806
 3,766
 3,776
 3,838
 3,844
 3,916
 3,954
 3,958
 3,974
 3,992
 4,006
 4,029
 4,037
 4,060
 4,096
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 4,137
 4,151
 4,155
 4,162
 4,182
 4,183
 4,359
 4,400





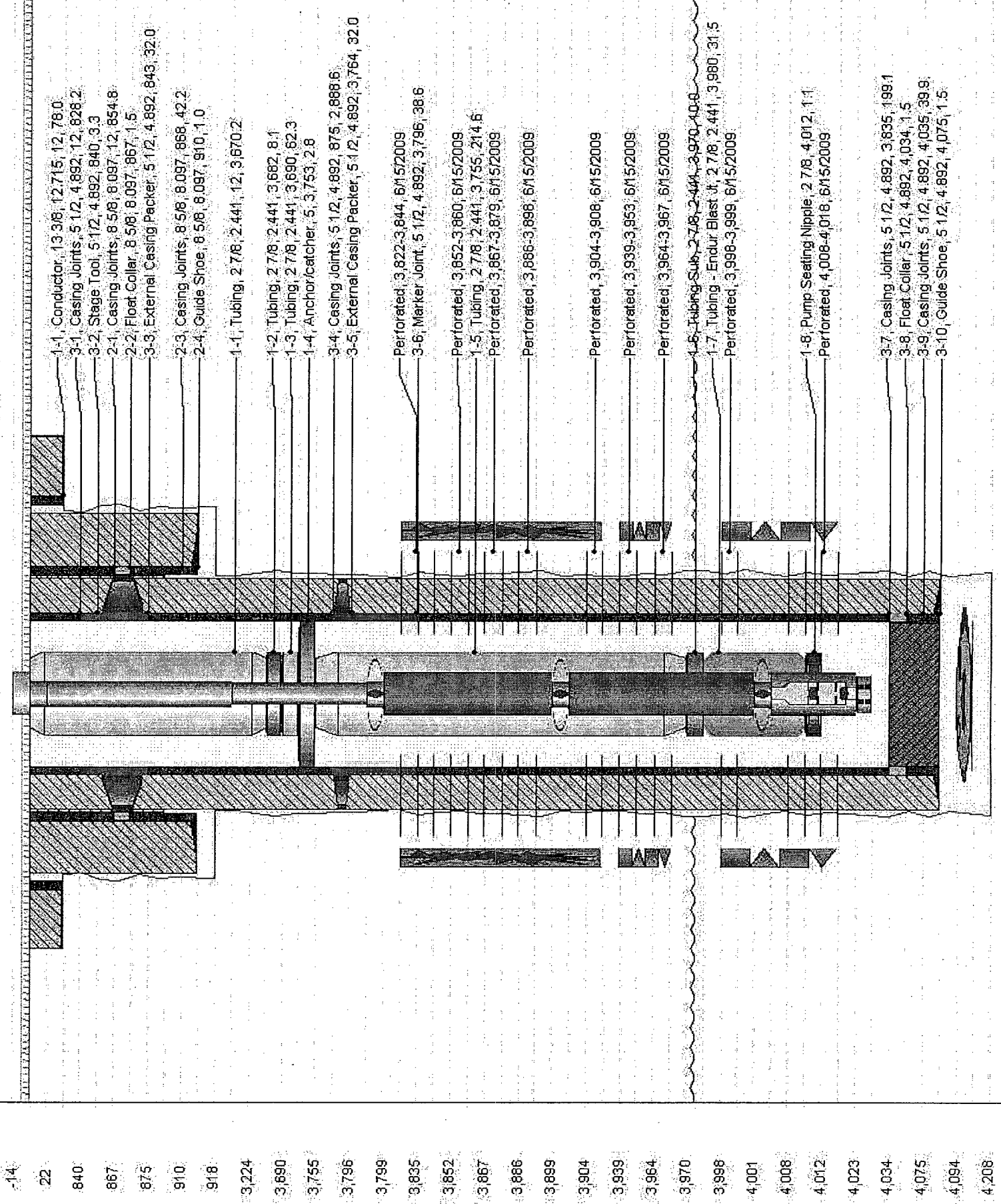
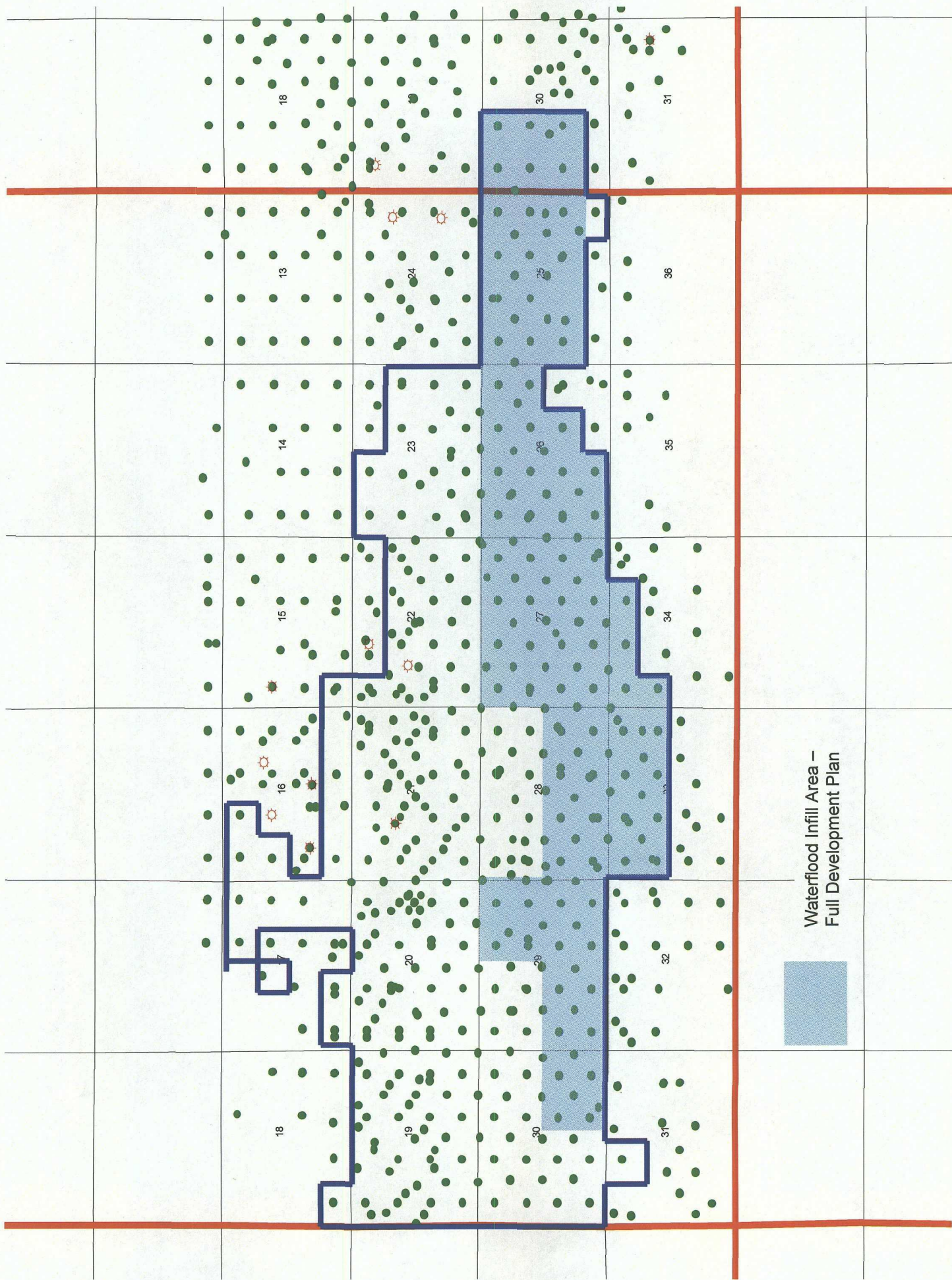
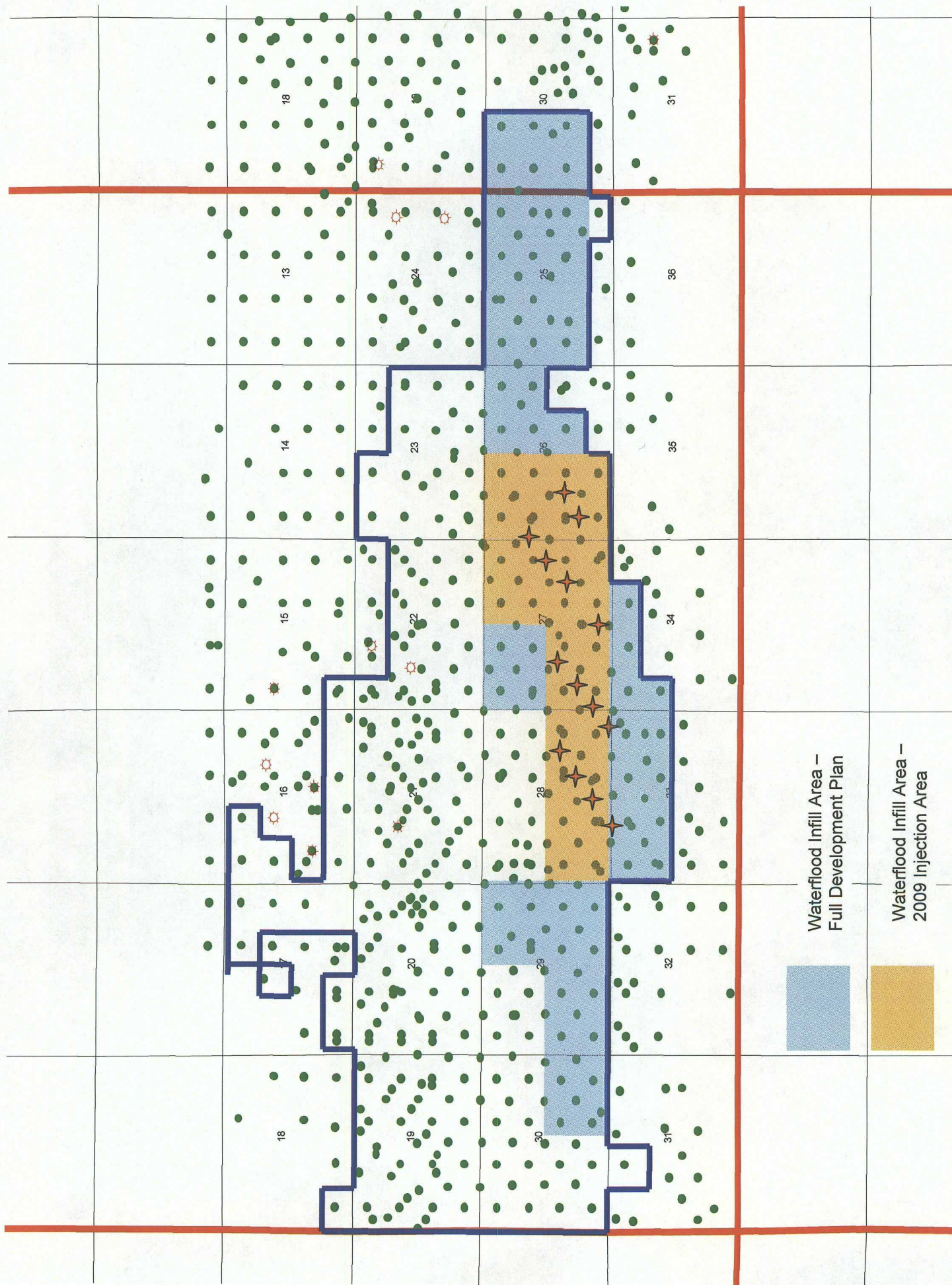


Exhibit # 2



Waterflood Infill Area -
Full Development Plan



○ 2 Mile Area of Review



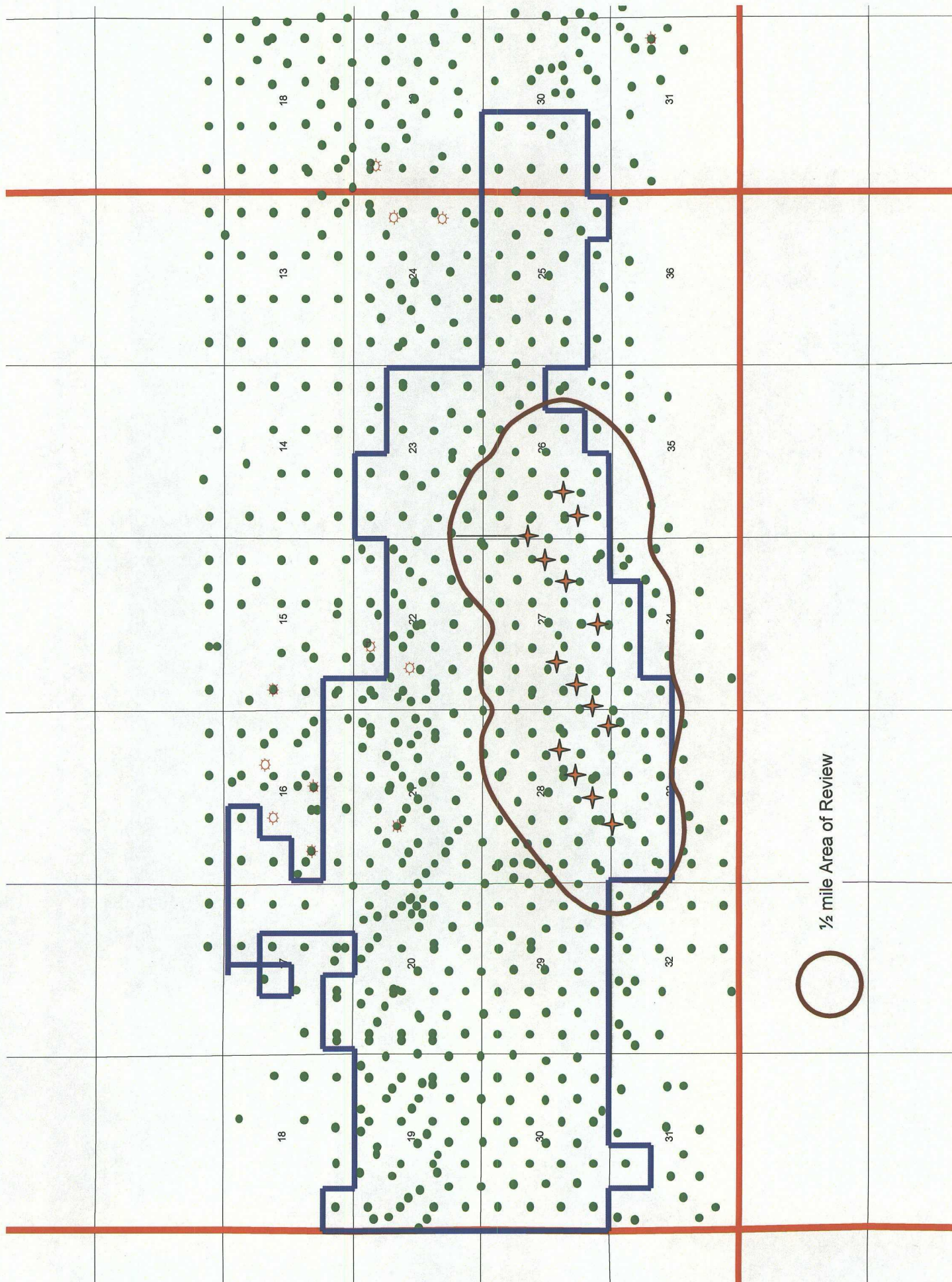


Exhibit # 3

3002533898000000	MCA UNIT	412	10/4/2008	4465	ACTIVE	33	17	32	10	FNL	2150	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4340	800	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898100000	MCA UNIT	413	1/14/2009	4620	ACTIVE	34	17	32	60	FSL	1980	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4606	800	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898200000	MCA UNIT	414	1/14/2009	4510	ACTIVE	27	17	32	1310	FSL	2630	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4498	700	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898300000	MCA UNIT	415	1/6/2009	4412	ACTIVE	27	17	32	1310	FSL	2055	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4402	700	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898400000	MCA UNIT	416	9/2/2008	4575	ACTIVE	27	17	32	660	FSL	1330	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4455	720	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898500000	MCA UNIT	417	12/29/2008	4466	ACTIVE	27	17	32	90	FSL	660	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4456	700	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898600000	MCA UNIT	418	12/29/2008	4380	ACTIVE	27	17	32	1310	FSL	660	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4364	750	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898700000	MCA UNIT	419	12/22/2008	4375	ACTIVE	27	17	32	660	FSL	145	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4360	715	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898800000	MCA UNIT	420	11/16/2008	4430	ACTIVE	28	17	32	1210	FSL	525	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4312	800	SURFACE	CIRCULATE	-	-	-	-	-	-
3002533898900000	MCA UNIT	421	11/15/2008	4510	ACTIVE	33	17	32	10	FNL	525	FEL 8-5/8"	570	SURFACE	CIRCULATE	-	-	-	5-1/2"	4374	1000	SURFACE	CIRCULATE	-	-	-	-	-	-
3002500698000000	JOHNS B	3	9/22/1947	4325	INACTIVE	26	17	32	660	FSL	1980	FEL 8-5/8"	50	SURFACE	CIRCULATE	NR	8-1/4"	1232	50	3559	350	NR	CIRCULATE	-	-	-	-	-	-
3002500802000000	PEARSALL A	7	4/1/1941	4075	INACTIVE	33	17	32	1980	FNL	660	FEL 12-1/2"	30	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3559	350	NR	CIRCULATE	-	-	-	-	-	-
3002500840000000	MCA UNIT	85	2/23/1940	4093	PA	22	17	32	660	FSL	1980	FEL 12-1/2"	20	SURFACE	CIRCULATE	NR	-	-	7"	3564	400	2600	ESTIMATE	4"	3600	150	2300	TOP OF LINER	
3002500864000000	MILLER	3	5/21/1936	3900	PA	23	17	32	660	FSL	660	FEL 8"	NR	SURFACE	CIRCULATE	NR	-	-	6-5/8"	2940	100	2061	NR	4"	-	-	-	-	
3002500864000000	MCA UNIT	82	12/21/1939	4035	PA	23	17	32	660	FSL	1980	FEL 12-1/2"	21	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3590	150	NR	CIRCULATE	-	-	-	-	-	
3002500864500000	MCA UNIT	1	10/14/1940	4035	PA	26	17	32	710	FSL	660	FEL 8-1/4"	1159	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3590	150	NR	CIRCULATE	-	-	-	-	-	
3002500869600000	MILLER	1	3/30/1960	8850	PA	26	17	32	330	FSL	2310	FEL 13-3/8"	375	SURFACE	CIRCULATE	NR	-	-	8-5/8"	4517	950	2200	TEMP SURVEY	-	-	-	-	-	
3002500704000000	MCA UNIT	187	8/16/1940	4073	PA	26	17	32	1980	FSL	660	FEL 8-5/8"	50	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3559	250	2000	CIRCULATE	-	-	-	-	-	
3002500706000000	MCA UNIT	124	4/18/1940	4165	PA	26	17	32	660	FNL	1980	FEL 8-1/4"	1020	SURFACE	CIRCULATE	NR	-	-	5-3/4"	3553	200	2200	CIRCULATE	-	-	-	-	-	
3002500707000000	MCA UNIT	202	2/24/1941	4170	PA	26	17	32	660	FSL	660	FEL 8-5/8"	22	SURFACE	CIRCULATE	NR	-	-	4-1/2"	4101	75	3700	CIRCULATE	4"	4285	300	3157	TOP OF LINER	
3002500708000000	MCA UNIT	249	3/21/1942	4380	PA	26	17	32	660	FSL	1980	FEL 8-5/8"	21	SURFACE	CIRCULATE	NR	-	-	4-1/2"	4101	75	3700	CIRCULATE	4"	4285	300	3157	TOP OF LINER	
3002500709000000	MCA UNIT	189	4/4/1941	4311	PA	26	17	32	1980	FSL	1980	FEL 8"	31	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3482	250	2300	CIRCULATE	4-1/2"	3362	50	920	CALCULATE	
3002500710000000	MCA UNIT	201	8/6/1948	4135	PA	26	17	32	1295	FSL	660	FEL 12-1/4"	75	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3536	100	2300	ESTIMATE	-	-	-	-	-	
3002500712000000	MCA UNIT	143	2/4/1940	4135	PA	26	17	32	1980	FSL	660	FEL 12-1/4"	20	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3536	100	2300	ESTIMATE	-	-	-	-	-	
3002500713000000	MCA UNIT	143	6/18/1941	4095	PA	26	17	32	1980	FNL	1980	FEL 8-5/8"	21	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3536	100	2300	ESTIMATE	-	-	-	-	-	
3002500719000000	USA-MILLER	1	3/17/1961	9715	PA	26	17	32	1980	FSL	2310	FEL 13-3/8"	313	SURFACE	CIRCULATE	NR	-	-	4-1/2"	8862	600	NR	CIRCULATE	4"	4149	250	3337	TOP OF LINER	
3002500721000000	MCA UNIT	147	12/16/1939	4100	PA	27	17	32	1980	FNL	1940	FEL 12-1/2"	20	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3543	250	2500	CIRCULATE	4-1/2"	4250	350	3326	TOP OF LINER	
3002500722000000	MCA UNIT	186	3/8/1940	4094	PA	27	17	32	1980	FSL	660	FEL 12-1/2"	20	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3555	200	2600	CIRCULATE	4"	4149	250	3337	TOP OF LINER	
3002500725000000	MCA UNIT	148	3/13/1940	4140	PA	27	17	32	1980	FNL	660	FEL 12-1/2"	20	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3543	250	2500	CIRCULATE	4"	4149	250	3337	TOP OF LINER	
3002500726000000	MCA UNIT	203	6/18/1940	4162	PA	27	17	32	660	FSL	660	FEL 8-5/8"	50	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3522	250	2200	TEMP SURVEY	-	-	-	-	-	
3002500726000000	MCA UNIT	119	5/19/1940	3994	PA	27	17	32	660	FSL	660	FEL 8-5/8"	249	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3522	250	2200	TEMP SURVEY	-	-	-	-	-	
3002500727000000	MCA UNIT	205	10/18/1940	4194	PA	27	17	32	660	FSL	660	FEL 8-5/8"	25	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3522	250	2200	TEMP SURVEY	-	-	-	-	-	
3002500737000000	QUEEN B	1	6/2/1948	3357	PA	27	17	32	1249	FSL	2605	FEL 10-3/4"	764	SURFACE	CIRCULATE	NR	-	-	ESTIMATE	4"	55	3910	CBL	4"	4089	400	3266	TOP OF LINER	
3002500737000000	MCA UNIT	117	6/21/1940	4100	PA	28	17	32	660	FNL	1980	FEL 12-1/2"	31	SURFACE	CIRCULATE	NR	-	-	4"	3663	200	2000	CIRCULATE	2-7/8"	4106	110	3502	TOP OF LINER	
3002500741000000	MCA UNIT	175	8/28/1940	3984	PA	28	17	32	1980	FSL	660	FEL 12-1/2"	20	SURFACE	CIRCULATE	NR	-	-	4"	3793	100	2000	CIRCULATE	2-7/8"	4106	110	3502	TOP OF LINER	
3002500743000000	MCA UNIT	178	10/17/1940	3925	PA	28	17	32	1980	FSL	660	FEL 12-1/2"	21	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3546	300	2121	TEMP SURVEY	-	-	-	-	-	
3002500744000000	MCA UNIT	179	9/8/1940	4104	PA	28	17	32	1980	FSL	660	FEL 12-1/2"	22	SURFACE	CIRCULATE	NR	-	-	4"	3568	250	80	TEMP SURVEY	-	-	-	-	-	
3002500746000000	MCA UNIT	207	11/24/1940	4005	PA	28	17	32	660	FSL	660	FEL 11-3/4"	21	SURFACE	CIRCULATE	NR	-	-	ESTIMATE	4"	3858	57	3287	ESTIMATE	2-7/8"	4168	55	3287	TOP OF LINER
3002500747000000	MCA UNIT	208	12/17/1940	4000	PA	28	17	32	660	FSL	1980	FEL 8"	21	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3585	300	2200	CIRCULATE	-	-	-	-	-	
3002500748000000	MCA UNIT	209	12/17/1940	4025	PA	28	17	32	660	FSL	1980	FEL 13-1/2"	22	SURFACE	CIRCULATE	NR	-	-	4"	4020	300	2700	CIRCULATE	-	-	-	-	-	
3002500749000000	MCA UNIT	210	1/29/1940	3970	PA	28	17	32	660	FSL	660	FEL 12-1/2"	22	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3563	300	2700	CIRCULATE	-	-	-	-	-	
3002500759000000	MCA UNIT	220	5/23/1939	4283	PA	33	17	32	660	FSL	660	FEL 8-3/4"	1195	SURFACE	CIRCULATE	NR	-	-	4-1/2"	3815	300	125	TEMP SURVEY	-	-	-	-	-	
3002500779000000	MCA UNIT	221	1/14/1941	4130	PA	33	17	32	660	FNL	1980	FEL 8-5/8"	1206	SURFACE	CIRCULATE	NR	-	-	7"	3566	100	3120	ESTIMATE	-	-	-	-	-	
3002500801000000	MCA UNIT	224	1/7/1941	4209	PA	33	17	32	560	FNL	660	FEL 8-5/8"	24	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3547	150	2800	CIRCULATE	-	-	-	-	-	
3002500804000000	PEARSALL-FEDERAL A	3	5/1/1941	3396	PA	33	17	32	1980	FNL	1980	FEL 8-1/4"	1123	NR	NR	NR	-	-	7"	3075	100	2200	ESTIMATE	5-1/2"	3284	300	SURFACE	CIRCULATE	
3002500805000000	PEARSALL-FEDERAL A	1	6/13/1941	3406	PA	33	17	32	1980	FNL	660	FEL 8-5/8"	1125	NR	NR	NR	-	-	5-1/2"	2875	100	NR	NR	-	-	-	-	-	
3002500807000000	MCA UNIT	237	9/13/1945	4167	PA	33	17	32	1980	FNL	1980	FEL 8-5/8"	1124	SURFACE	CIRCULATE	NR	-	-	4-1/2"	4010	300	1110	CALCULATED 2-7/8"	4280	200	3550	TOP OF LINER		
3002500809000000	MCA UNIT	230	7/22/1941	4186	PA	33	17	32	1980	FNL	1980	FEL 8"	85	SURFACE	CIRCULATE	NR	-	-	5-1/2"	3586	250	2376	TEMP SURVEY	-	-	-	-	-	
3002500814000000	NA PEARSAI AX	7	4/26/1945	4400	PA	33	17	32	1874	FNL	766	FEL 10"	22	NR	NR	NR	-	-	7"	3727	200	200	NR	-	-	-	-	-	
3002500815000000	MCA UNIT	383	12/7/1961	9486	PA	34	17	32	330	FNL	330	FEL 11-3/4"	218	SURFACE	CIRCULATE	NR	-	-	8-5/8"	4598	1600	1600	CIRCULATE	-	-	-	-	-	
3002500817000000	MCA UNIT	228	2/25/1941	4270	PA	34	17	32	660	FNL	660	FEL 8-5/8"	1154	SURFACE	CIRCULATE	NR	-	-	4-1/2"	3907	250	250	CIRCULATE	2-7/8"	4291	130	3634	TOP OF LINER	
3002500818000000	MCA UNIT	227	6/15/1941	4171	PA	34	17	32	660	FNL	1980	FEL 8-1/4"	1135	SURFACE	CIRCULATE	NR	-	-	7"	3743	100	2443	CIRCULATE	-	-	-	-	-	
3002500819000000	MCA UNIT	228	4/3/1941	4350	PA	34	17	32	660																				

Exhibit # 4

WELLBORE DIAGRAM
MCA UNIT #85

Lease and Well No.:
Location:

MCA UNIT #85
Sec. 22, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

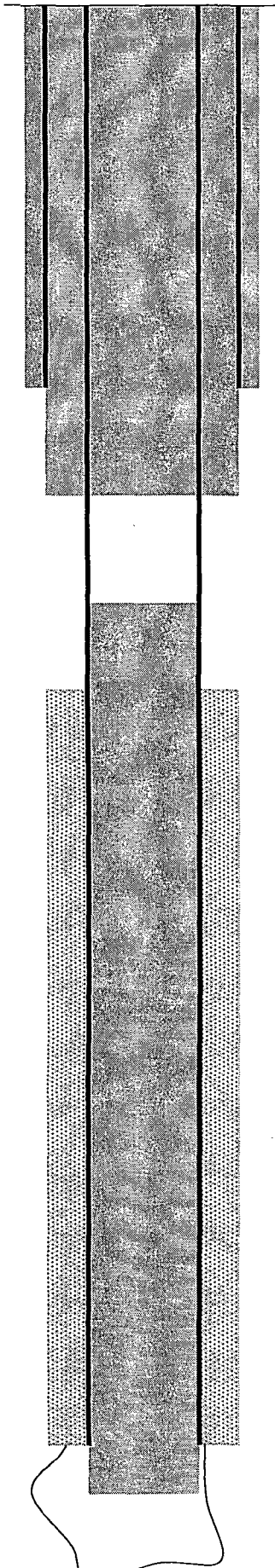
30-025-00640
PA'D

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

236 sx from 1512' to surface

200 sx TOC @ 3002'

7" @ 3554'
TOC 2600'
400 sx cement



WELLBORE DIAGRAM

MILLER #3

240 sx from 797' to surface

Lease and Well No.:
Location:

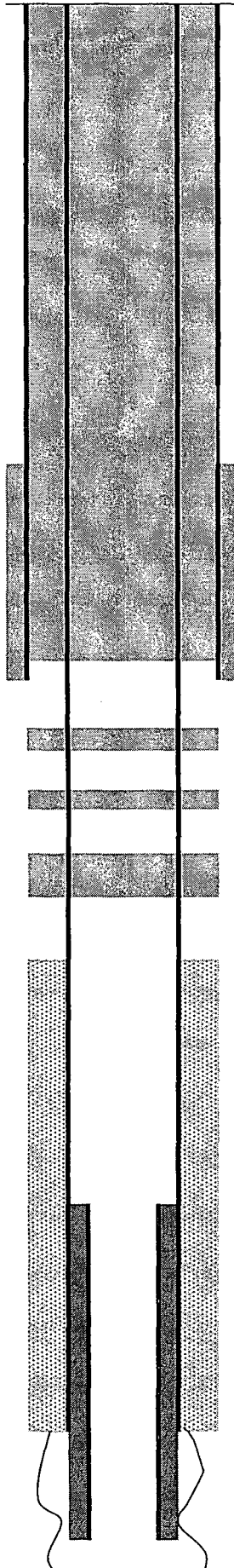
MILLER #3
Sec. 23, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00643
PA'D



8" @ 880'

125 sx @ 1140'

150 sx @ 1320'

150 sx 1497-1320'

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

4" Liner @ 3600'
150 sx cement

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

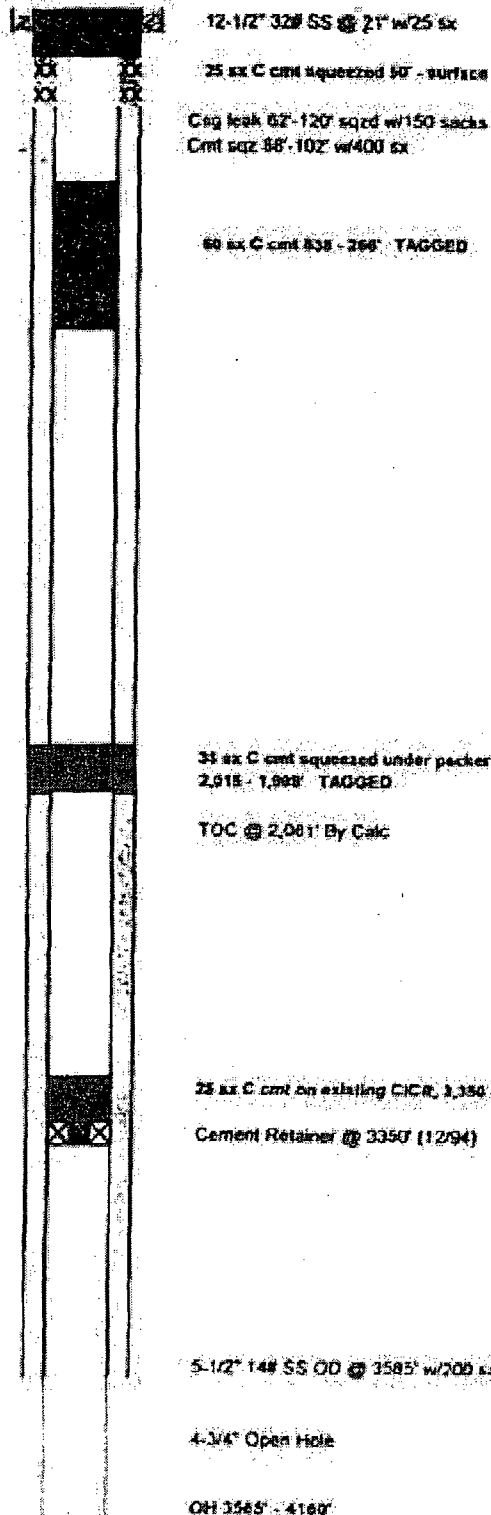
PLUGGED WELLBORE SKETCH

ConocoPhillips Company - Permian Basin Business Unit

MCA 82

Date: 28-Sep-04

RKB @ 3885'
DF @ 3887'
GL @ 3881'



Subarea: Maljamar
 Lease & Well No.: MCA Unit No. 82
 Legal Description: 800 FSL & 1900 FWL, Sec 23, T-17-S, R-32-E
 County: Lea State: New Mexico
 Field: Maljamar (GR/SA)
 Date Spudded: December 31, 1939 IPP:
 API Number: 30-025-00644
 Status: PLUGGED 09/09/04
 Drilled as Miller-A No. 5

8/22/47 Deepen from 4065' to 4146'
 5/15/58 Cement plug 4058-4110 w/40 ex
 5/17/58 Cmt 30 ex 4068
 5/19/58 Cmt 40 ex 4083, TOC 4043
 6/20/59 CO and deepen 4-3/4" hole 4146-4160'
 6/23/59 Convert to water injection, Baker AD-1 @ 3562'
 Inject 750 BWPD @ 1300 psi
 2/26/85 Cmt squeeze 88'-102' w/400 ex, run PC 1bg
 7/20/89 Casing leak 82' - 120' squeezed w/150 sacks
 Set cement retainer @ 3350', circ pk fluid, press up to 7000
 on casg. 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
 SERVICE INC.
 405-408 11

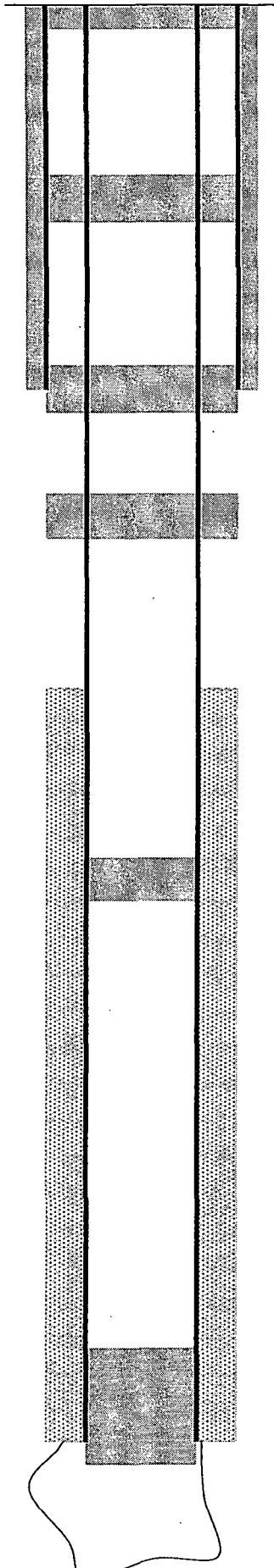
ACTUAL PLUGGING PROCEDURE

- 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 - 268' TAGGED
- 4) 25 ex C cmt squeezed 50' - surface

PBD 3350'
 OTD 4050'
 NTD 4160'

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'

15 SX @ 1175-1123'

10 SX @1494-1440'

15 SX @2600-2508'

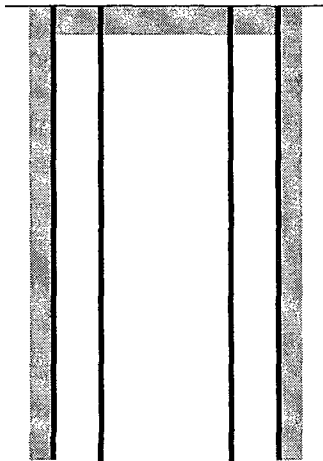
12 SX 3564-3601

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

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

WELLBORE DIAGRAM
MILLER #1

5 sx @surface



Lease and Well No.:
Location:

MILLER #1
Sec. 26, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

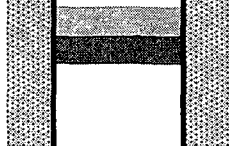
30-025-00696
PA'D

13-3/8" @ 345'
TOC @ surface
circulate
375 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
MCA UNIT #187

Lease and Well No.:
Location:

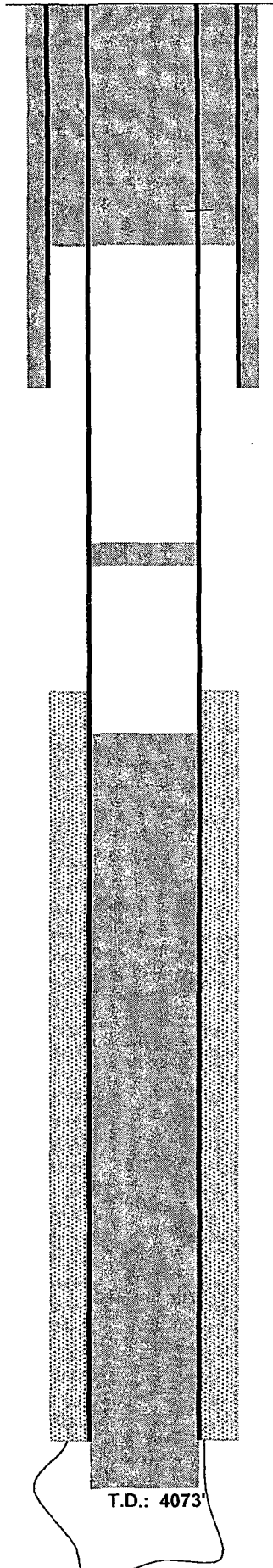
MCA UNIT #187
Sec. 26, T17S-R32E

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'

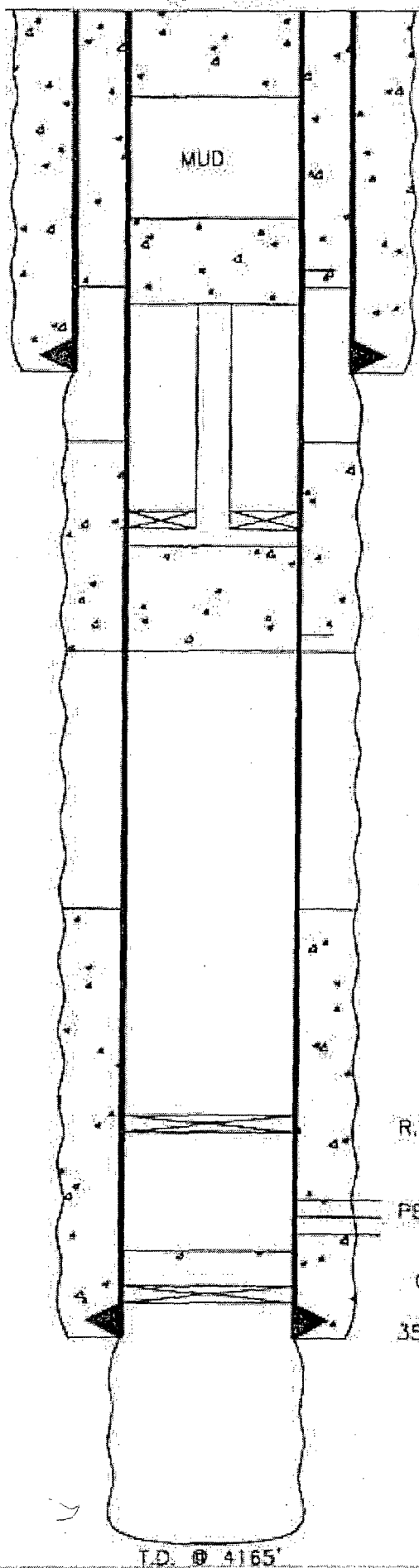
5-1/2" @ 3559'
TOC @ 2000'
250 sx cement

T.D.: 4073'

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'

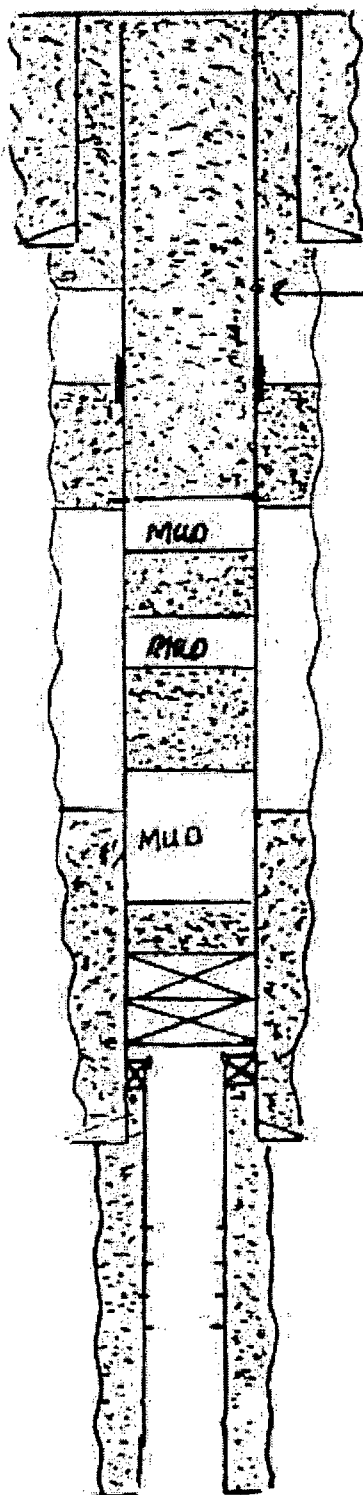
CONOCO, INC.

M.C.A. Unit #124

660' FNL & 1980' FWL

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

MCA 202



8 5/8" 22" w/ 25545 CMT

BAD CROWD AT 30' ± SQUEEZES W/450 SYS TO SURFACE

W/450 S/S To SURFACE
(YEAR 1985 AT 30' DOWN FROM SURFACE)

54' BROWN CASING, Patch 76 Spheres w/450 SPS CNT TO SURFACE

Peelrate 5 1/2" at 300' 65545 cmt

Sept 25 515 Plug 1000 - 750

Spot 25815 Plug At 2200-1950'

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

Spot 25545 3150' - 2900'

CIBP 544 3150

2BP 5 1/2" 14 3152'

INVER TON 4 31570

TD 511" 3486'

Reels 4022-4272

4" T.D. 4285'

CONOCO INC.

MCA Unit 202

SEC. 26 T-175, R 32E

LEA County NEW MEXICO

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

3-5/8" @ 31'
FOC @ surface
circulate
13 sx cement

25 sx 1052-720'

35 cement @ 1850-2000'

25 sx cement 3904-3405'
retainer @ 3904'

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

T.D.: 4360'

Field Name:	Majaman/Grayburg/San Andres		
County:	Lea	Well Type:	Oil
State:	New Mexico	Depth:	4,318
RRC District:		Drilling Commenced:	December 8, 1940
Section:	28	Drilling Completed:	February 22, 1941
Block:		Date Well Plugged:	January 6, 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 058698Y		

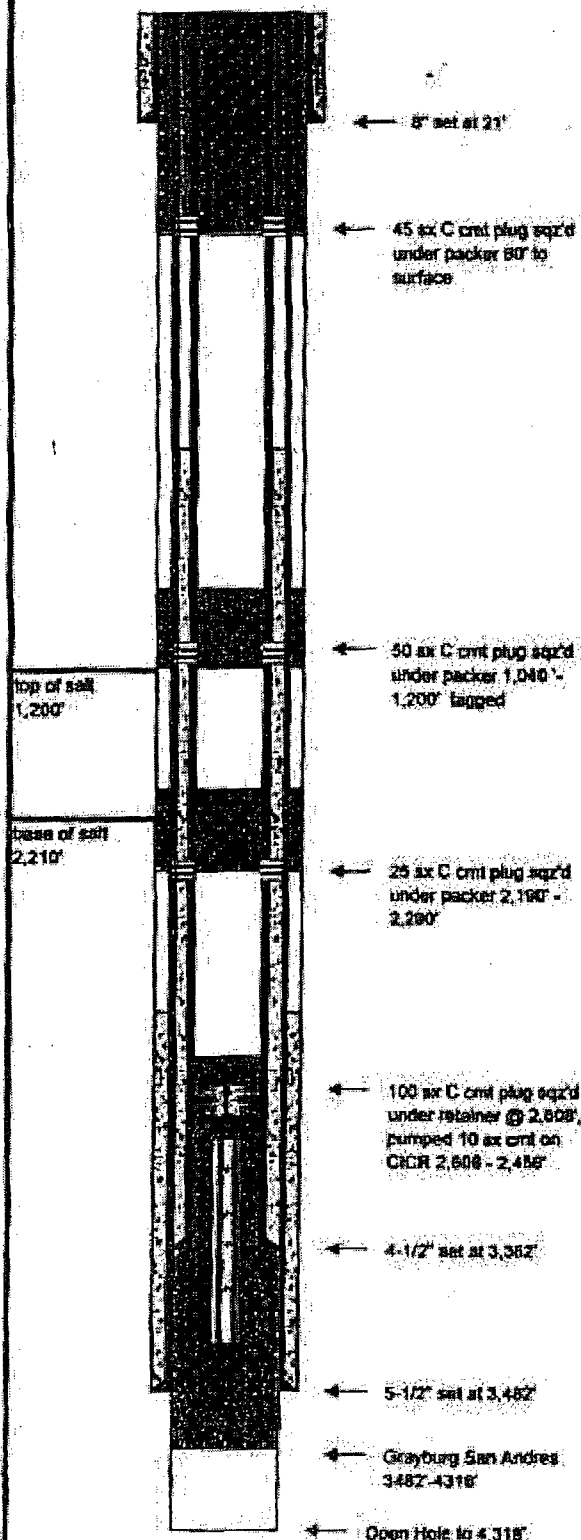
Casing					
Description	Size (inches)	Depth (feet)	TDC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	8"	21	Surface	25	
Production:	6-1/2"	3,482	2,300	250	
Liner (1):	4-1/2"	3,362	920	50	

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 @ 3857
 DF @ 3956
 GL @ 3947

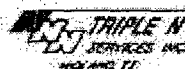
Subarea:
 Lease & Well No.:
 Legal Description:
 County:
 Field:
 Date Spudded:
 API Number:
 Status:

Mallamar
 MCA Unit No. 201
 1295 FSL & 1370 FWL, Sec. 28, T-17-S, R-32-E
 Lea State: New Mexico
 Mallamar (Grayburg-San Andres)
 Aug. 7, 1948 Rig Released: Oct. 10, 1948
 30-025-00710
 Proposed Plugged

Stimulation History:

Interval	Date	Type	Gels	Lbs. Sand	Max Press	ISP	Max Rate
	10/9/48	Shoal 4078'-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	3800	1500	13.9
	9/12/99	Set RBP @ 3893', csg leak 104' to 907'					
		Squeeze w/ 273 sacks cement; retrieve RBP					
3898-4310	9/13/99	Frac	543 Bbls	38,600			16.0
	10/11/05	Casing leak 800' to 862'					
	10/27/05	Set CRP @ 2230'-2235'					
	10/28/05	Tubing leak in hole from 2245' to 3989'					
		Rods left in hole 2257' to 3989'					
		TEMPORARILY ABANDONED					

NOTE: Removal of rods and tubing is required by NMOCED prior to any plugging operation. There is approximately 1925' of rods and 1918' of tubing remaining to be recovered.

**PROPOSED PLUGGING PROCEDURE**

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

Capacities

4-1/2" 9.5# csg:	10.960 ft/m	0.0912 ft/m
5-1/2" 14# csg:	7.2960 ft/m	0.1370 ft/m
7" 20# csg:	4.3960 ft/m	0.2273 ft/m
8-5/8" 24# csg:	2.7970 ft/m	0.3576 ft/m
8-5/8" 28# csg:	2.8530 ft/m	0.3508 ft/m
10-3/4" 40 5# csg:	1.8150 ft/m	0.5608 ft/m
7-7/8" openhole:	2.9565 ft/m	0.3382 ft/m
12-1/4" openhole:	1.2218 ft/m	0.8185 ft/m

Formation Tops:

Top Salt 1187'
 Base Salt 2210'

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

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

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

12-1/4" Hole

TOC @ N/A

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

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

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

CRP @ 2,230'

Base Salt @ 2,210'

TOC @ 2,190'

TBG & RODS LEFT IN HOLE F/ 2,245 - 3,989'

6-3/4" Hole

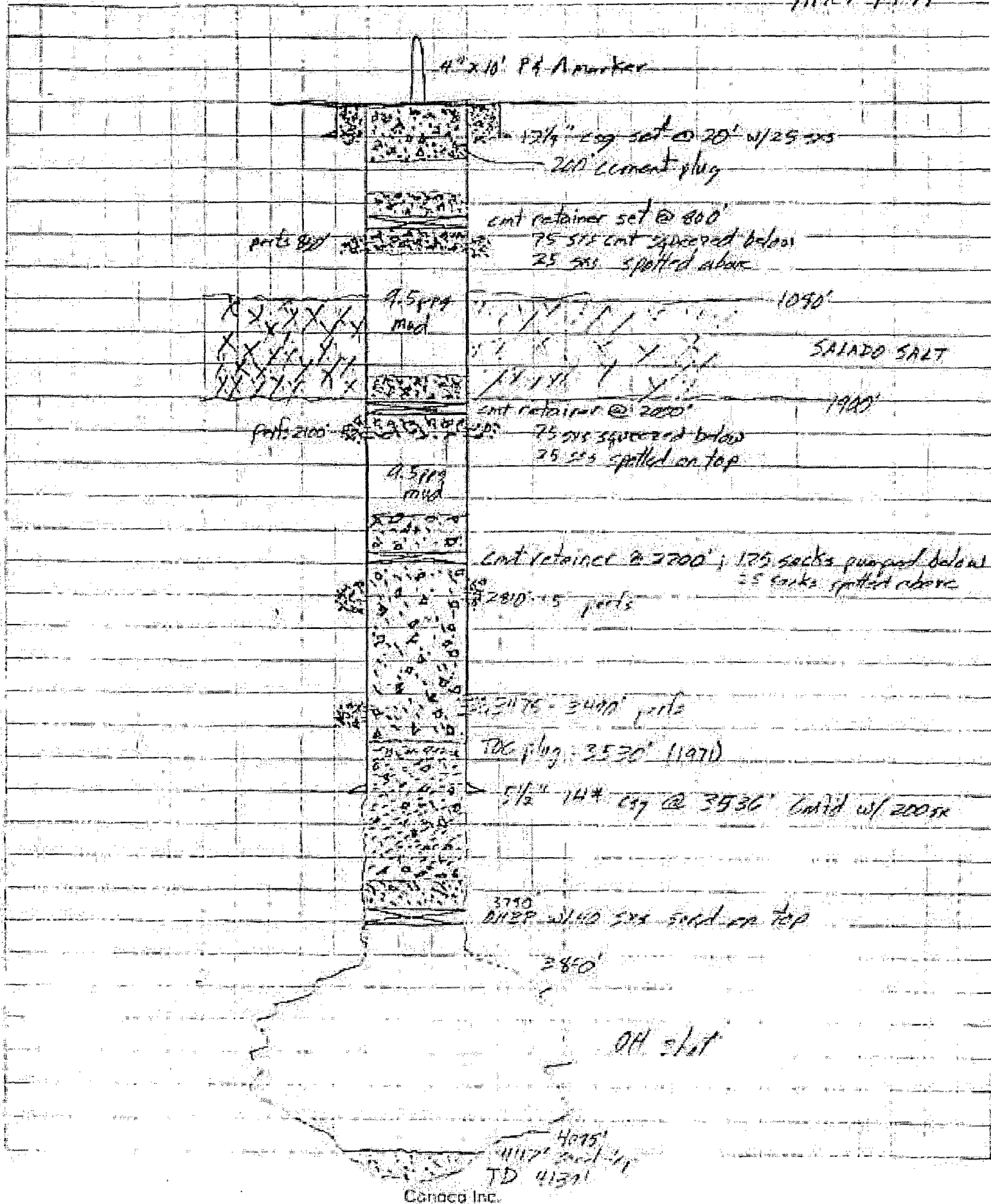
4-1/2" Hole

4078'-4131' - Shoal w/ 140 Qts Nitro

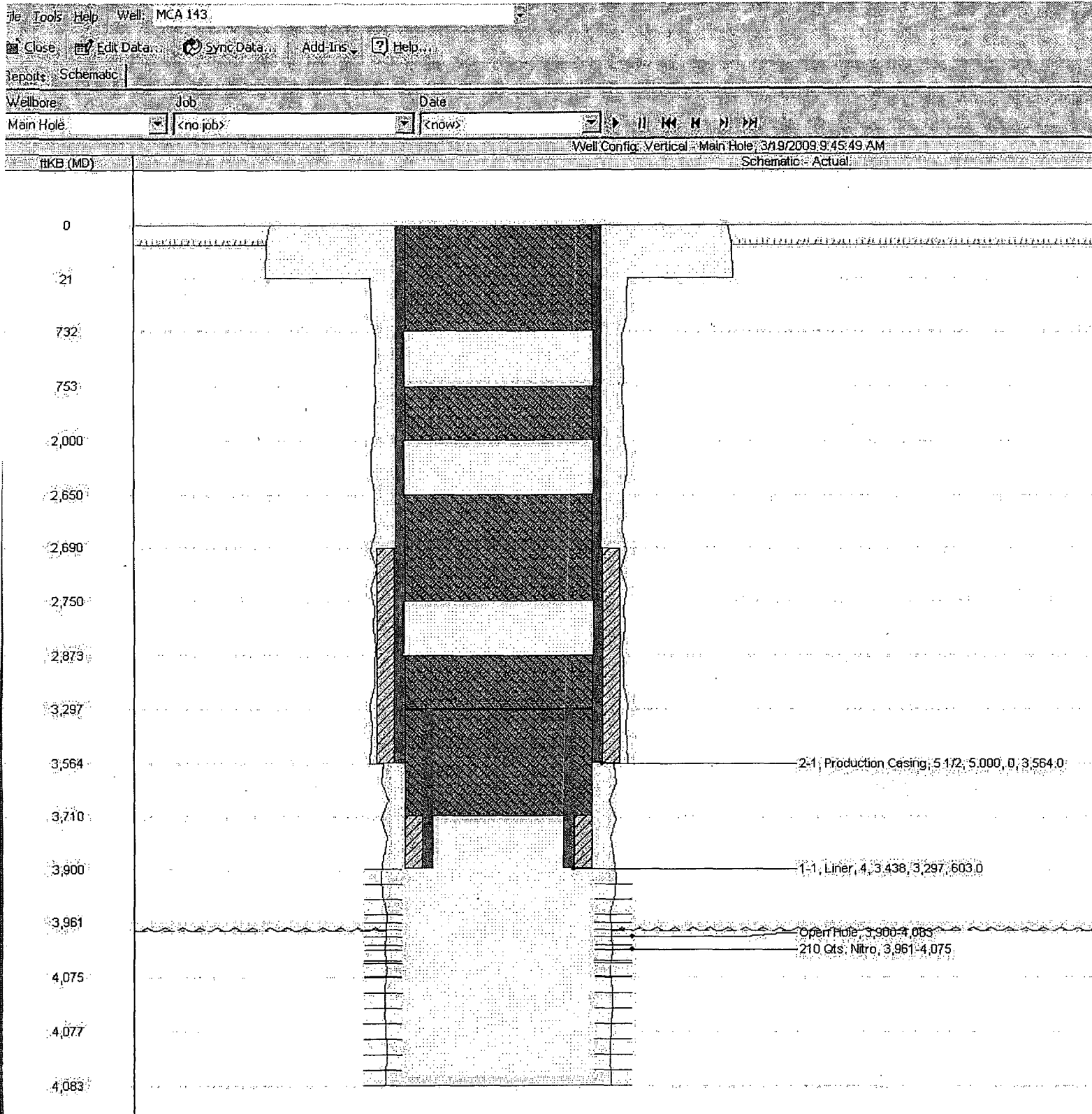
OH 3895' - 4310'

FBTD @ 2230'
 OTD @ 4136'
 NTO @ 4310'

MCA No. 144
After P4 A

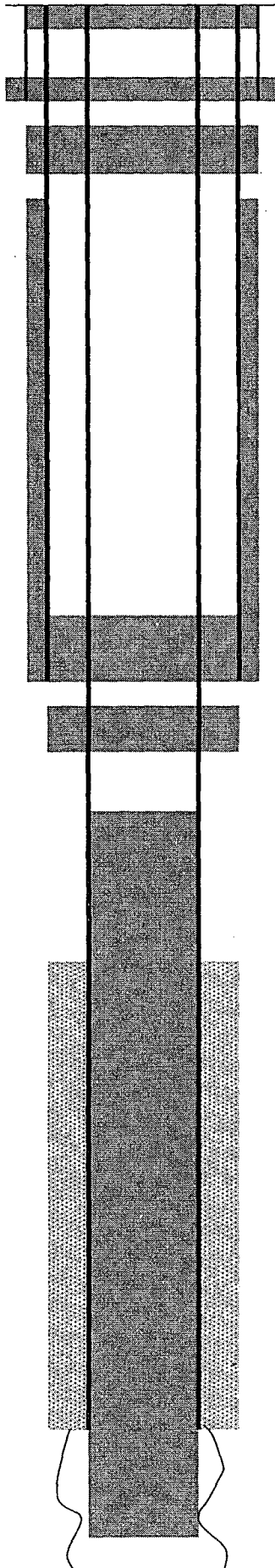


MCA 143



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'

-5/8" @ 4249'
820 sx cement

25 sx @5805'

25 SX AT 6580'

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

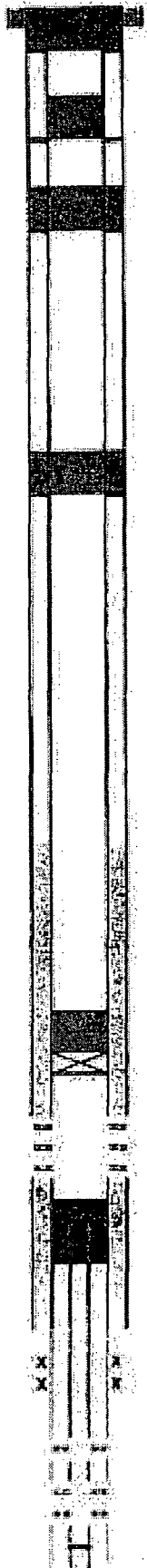
PLUGGED WELLBORE SKETCH ConocoPhillips Company - Permian Basin Business Unit

MCA 147

Date: September 25, 2004

RKB # _____
 OF # 3890
 CL # _____

Subarea: McJannet
 Lease & Well No.: Queen-B No. 6 / (MCA Unit No. 147)
 Legal Description: 1980 FNL & 1980 FWL, SE1/4 NW1/4 Sec. 27,
 T-17-S, R-32-E N.M.P.M. Meridian
 County: Lea State: New Mexico
 Field: McJannet (3890A)
 Date Spudded: May 19, 1942 IPP
 API Number: 30-025-00719 403 BG, 0 5W
 Status: PLUGGED
 Drilled as Balch "B" No. 8



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

25 in C cmt 445 - 239' TAGGED
 (perforated at 400', no rate at 1,500 psi)

35 in C cmt perforated & squeezed
 under packer 1,000 - 895' TAGGED

38 in C cmt perforated & squeezed
 under packer 1,330 - 1,800' TAGGED

9/27/69

Located leak in csg between 60 and 80' from surface
 Cut casing @ 120', ran 10 5/8 J-55 csg w/Bowen
 csg bowl, latch onto csg @ 108', set w/7600 OK. Welded band
 on 5-1/2" csg.

ACTUAL PLUGGING PROCEDURE

- 1) Tagged existing CRP @ 1,130', pumped 25 in C cmt 1,130 - 2,883'
- 2) 35 in C cmt perforated & squeezed under packer 1,930 - 1,800' TAGGED
- 3) 35 in C cmt perforated & squeezed under packer 1,000 - 895' TAGGED
- 4) 28 in C cmt 465 - 239' TAGGED (perforated at 400', no rate at 1,500 psi)
- 5) 30 in C cmt perforated & squeezed 50' - surface

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

Tagged existing CRP @ 1,130', pumped
 25 in C cmt 1,130 - 2,883'

CRP @ 3130' (4000)

Queen

3178-3204 - 2 JSPF (5005)

Cmt Ret @ 3330' w/57 in below & 35 in above
 Top Liner @ 3337'

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

3760' 442 w/200 in; TOC 3564'

2890' Sep w/118 in cmt

4-3/4" Hole

OH 3543' - 4150'

Gray/Burn 8th

3856-34904 3912-3906

Burn/Burn 7th

3912-3906 3980-3982

3980-4002 4010-4030 (266 holes) 1008

Spot 30 in cmt 4150'-4037'

CRP @ 4088' pushed down from 3900'

Btm of Liner @ 4148'

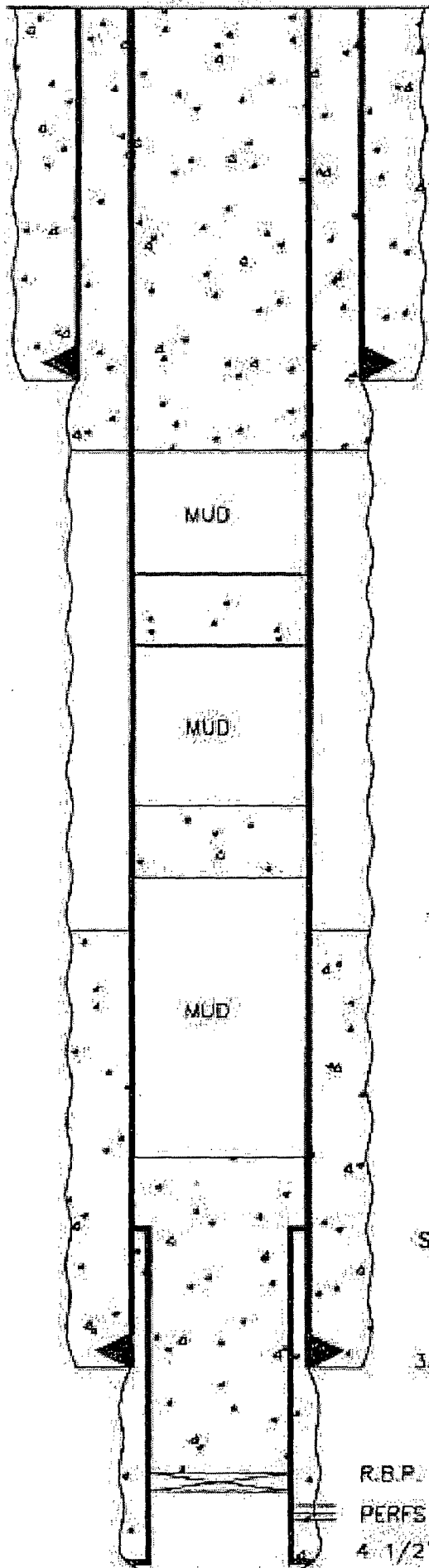
4" Liner 10.468 FL-45 set 3337'-4148' w/250 in

PSTD: 3130'
 DTD: 3605'
 NTD: 4150'

Elev. 3951'

1/29/96

MCA 186



SPOT 10 SXS SURFACE PLUG

FILL 12 1/2" FROM TOP

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

MUD

SPOT 15 SXS 950'-1100'

MUD

SPOT 15 SXS 1800'-1950'

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

MUD

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

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

R.B.P. @ 3590'

PERFS 4008'-4206'

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

T.D. @ 4250'

CONOCO, INC.

M.C.A. Unit #186

1980' FSL & 660' FEL

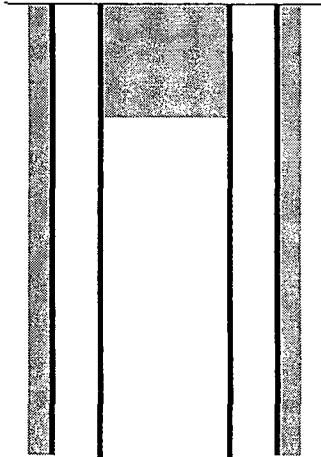
Sec. 27, T-17S, R-32E

Lea County, NM

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:

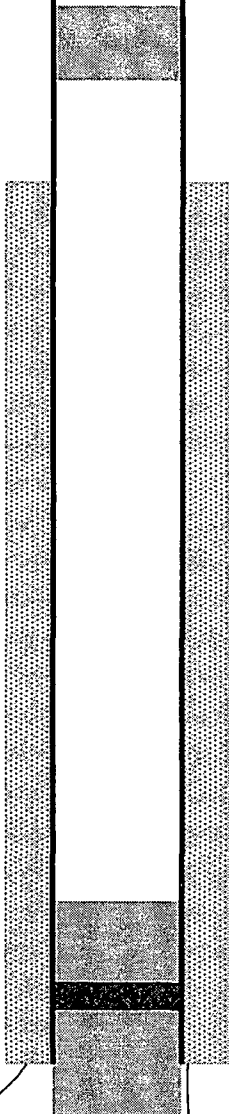
Lea County, New Mexico
Maljamar

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 #203

Lease and Well No.:
Location:

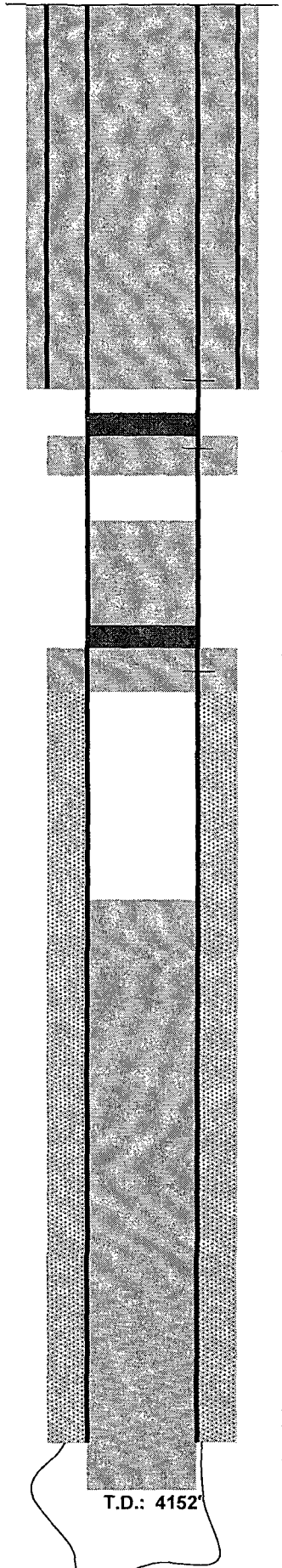
MCA UNIT #203
Sec. 27, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00725
PA'D



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

squeezed 115 sx from 250' to surface

retainer set @ 693'
25 sx squeezed

25 sx 861-2140'

retainer at 2140'
75 sx squeezed

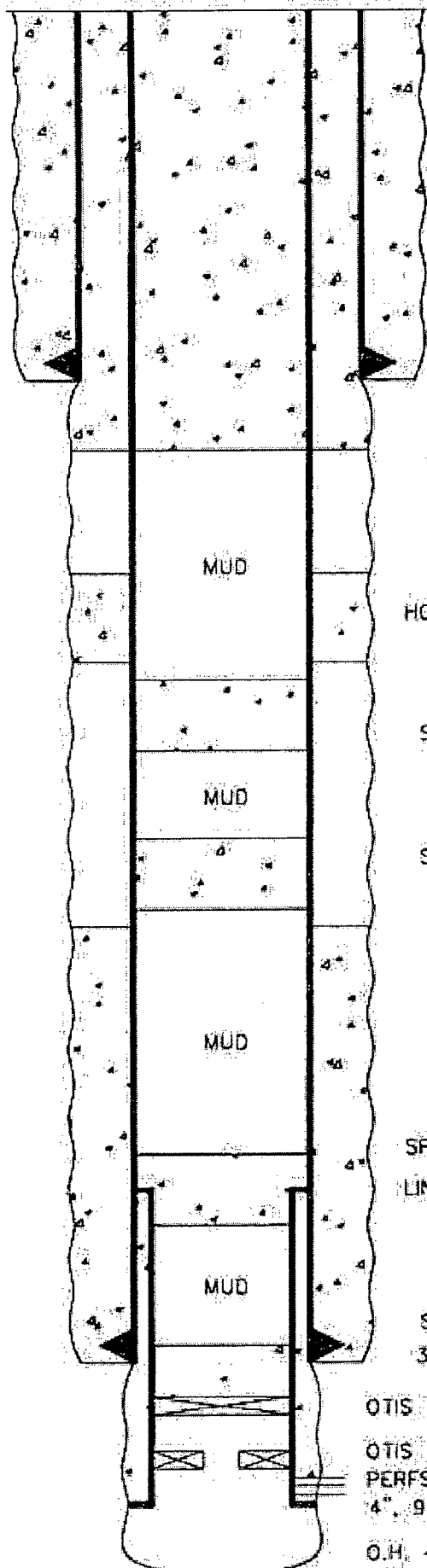
210 sx cement from 2688-4152'

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

T.D.: 4152'

Elev. = 4033'

1/29/96 MCA 119



SPOT 10 SXS SURFACE PLUG

FILL 12 1/2" FROM TOP

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

MUD

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

SPOT 15 SXS 980'-1130'

MUD

SPOT 15 SXS 1950'-2100'

T.O.C. @ 2200'

MUD

SPOT 10 SXS 3220'-3320'

LINER TOP SOZ'D W/550 SXS

MUD

SPOT 10 SXS ON TOP OF PLUGGED PACKER

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

OTIS PAKER W/PLUG @ 3706'

OTIS 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

WELLBORE DIAGRAM
MCA UNIT #205

25 sx from 500 to surface

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

Lease and Well No.:
Location:

MCA UNIT #205
Sec. 27, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

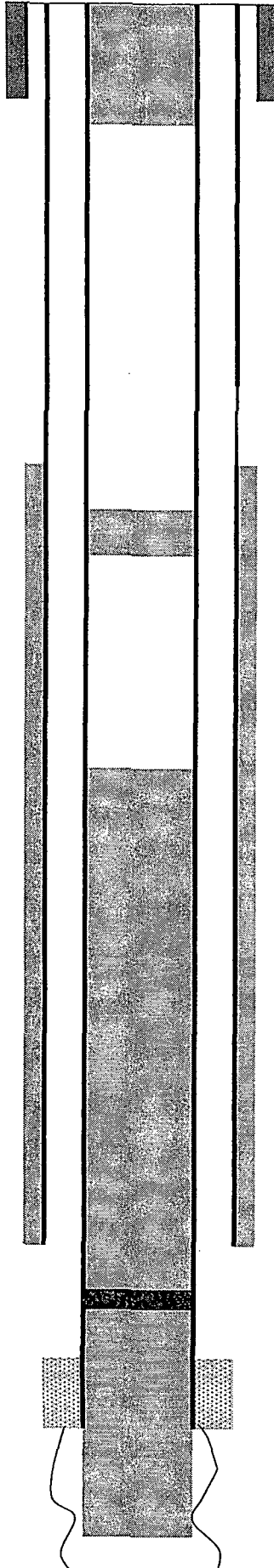
30-025-00727
PA'D

25 sx from 2400-1900'

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

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

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



WELLBORE DIAGRAM

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

3-5/8" @ 1128'
100 sx cement

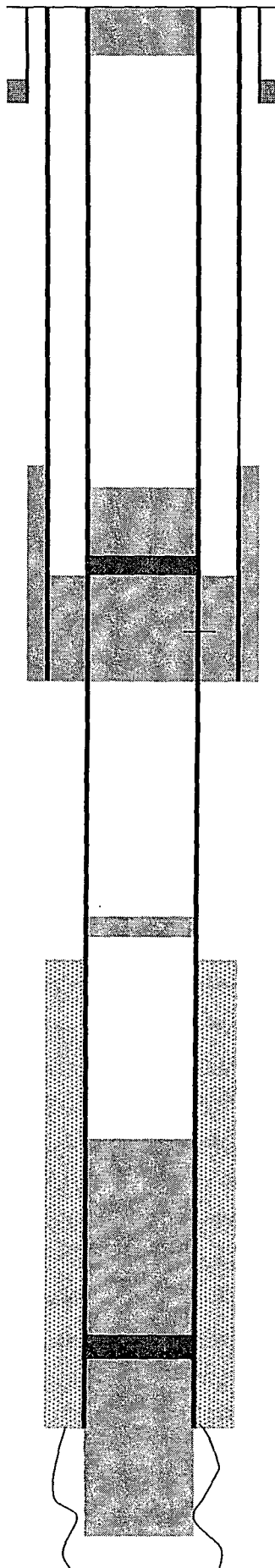
25 sx 2278-2239'

PERFORATIONS

2901-2909'

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

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



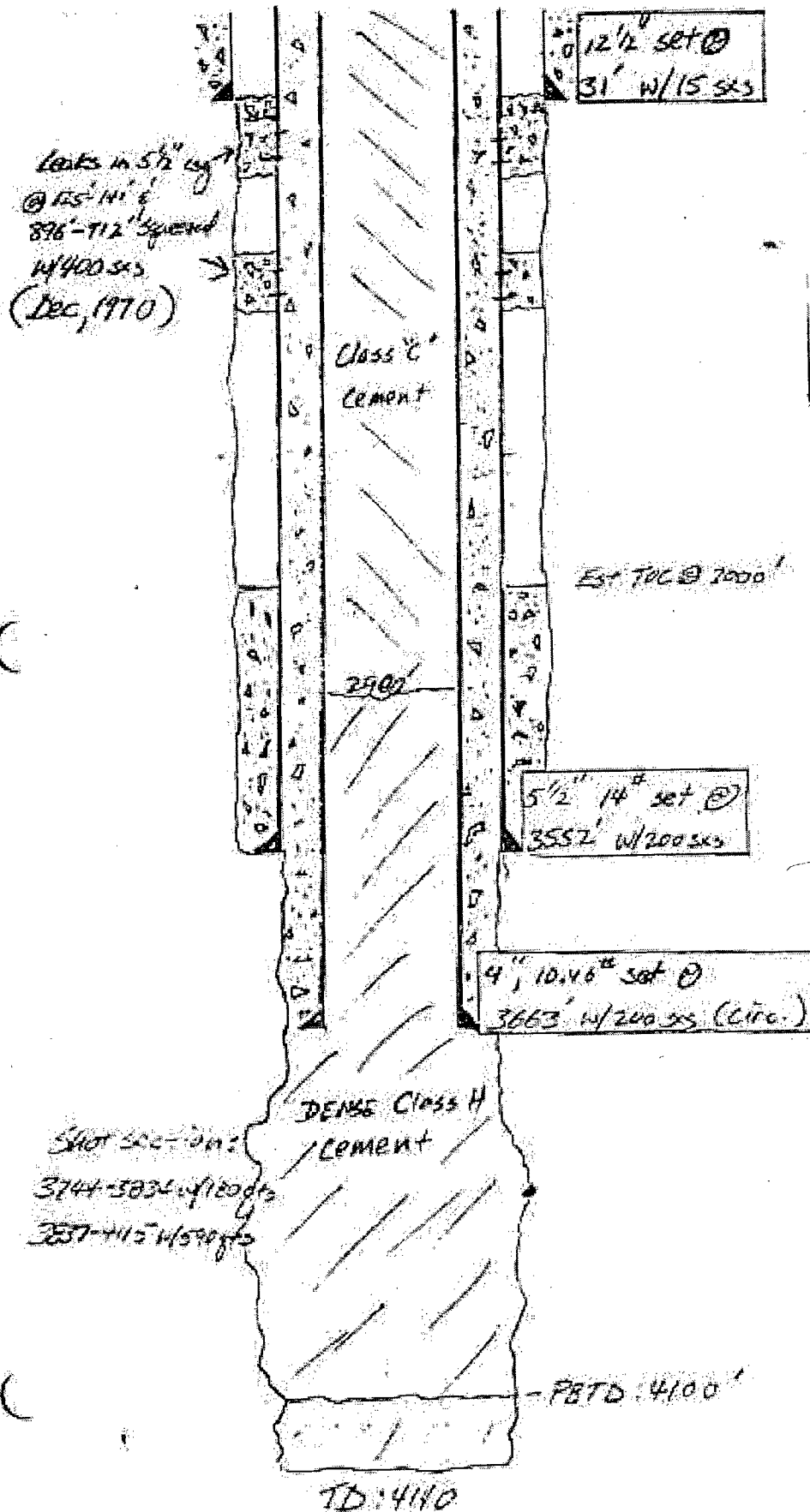
FOR

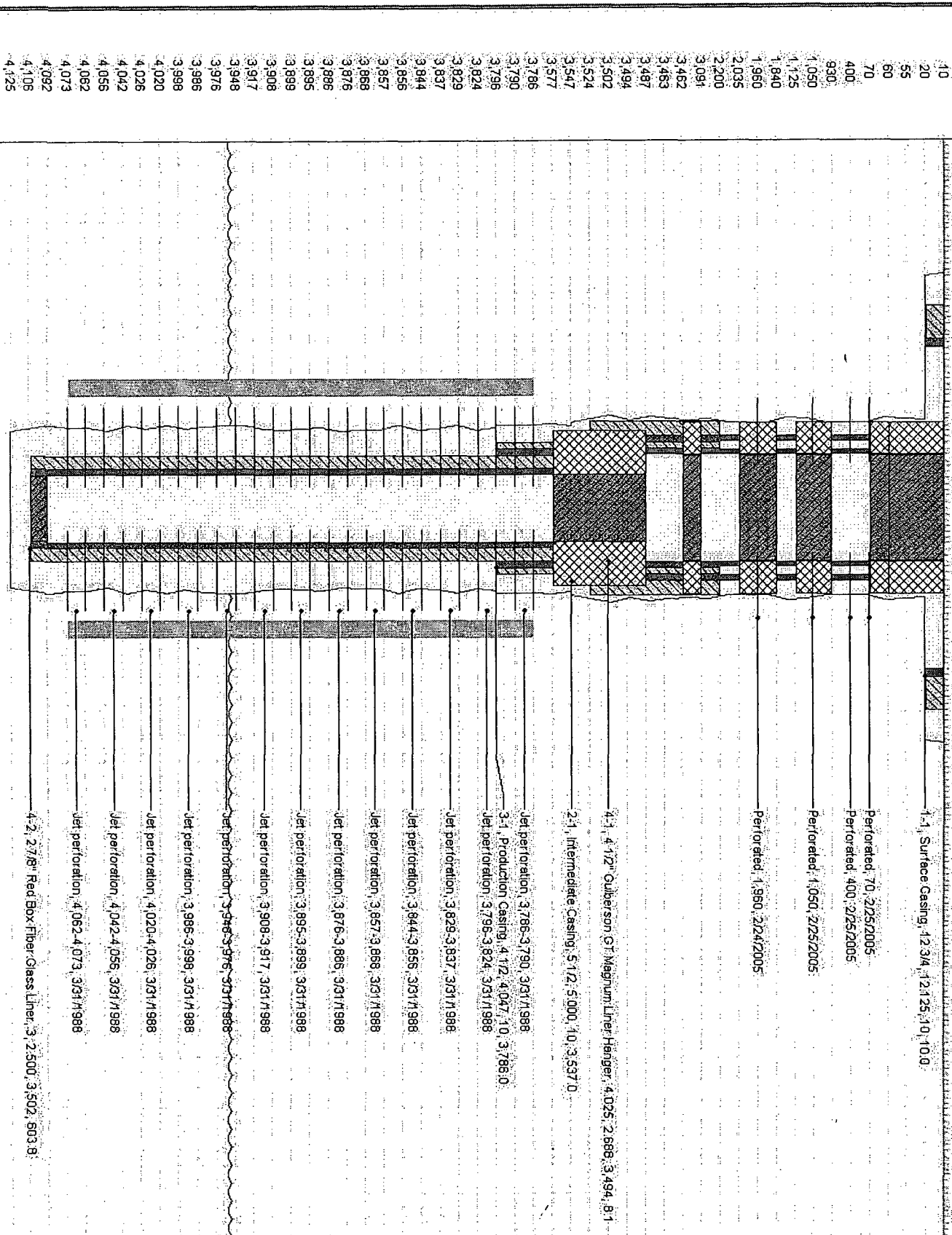
LOCATION

SUBJECT

MCA 117

660' FNL, 1980 FFL 28-17-32





MCA 179 PEA

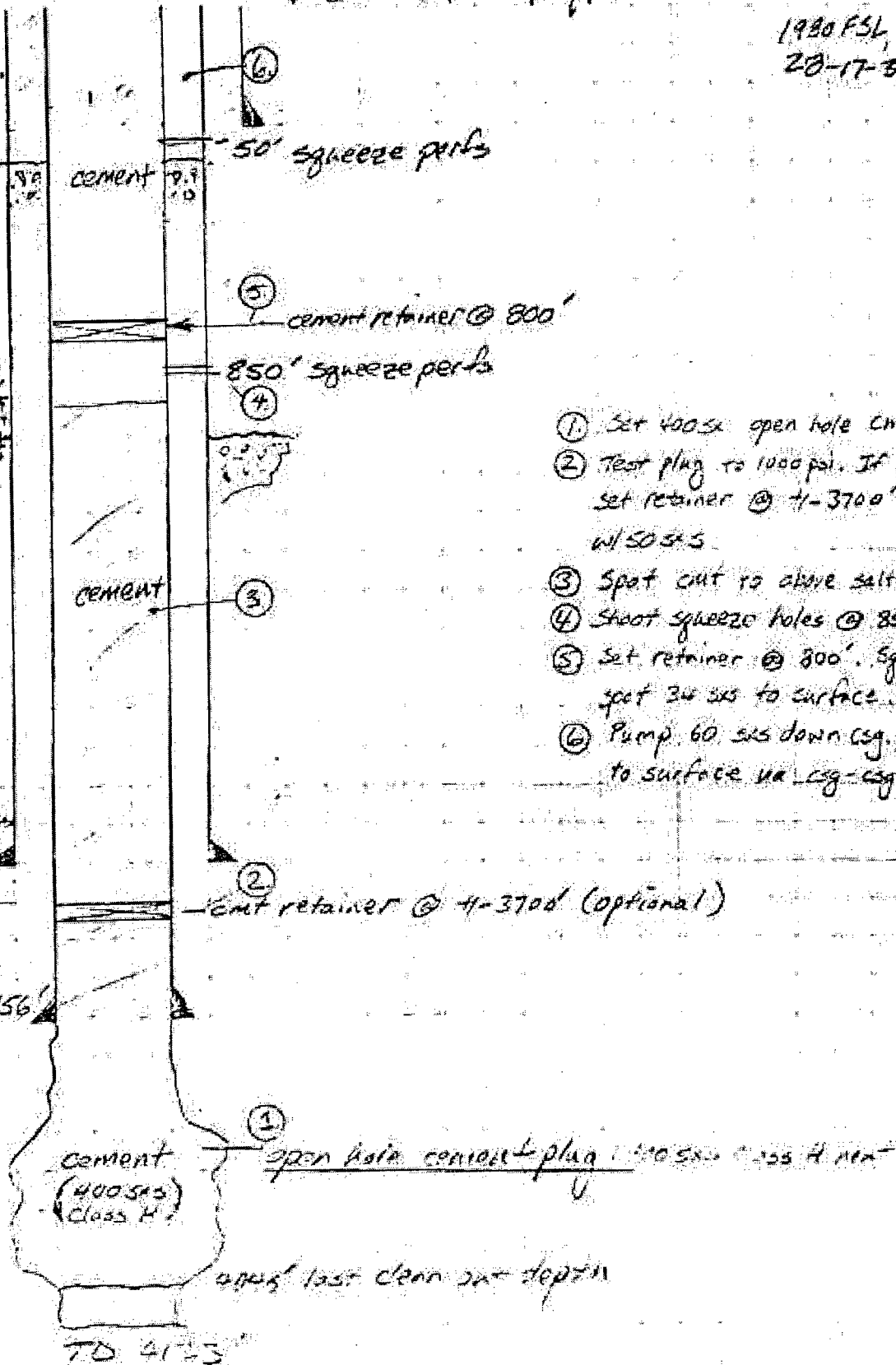
1980 FSL, 660' FEL
20-17-82

12 1/2" SET
W/150 SXS @ 22'
TOC 80'
CEMENT

12 1/2" SET
W/150 SXS @ 22'
TOC 2100'
CEMENT

5 1/2" SET W/300 SXS
@ 3568'

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

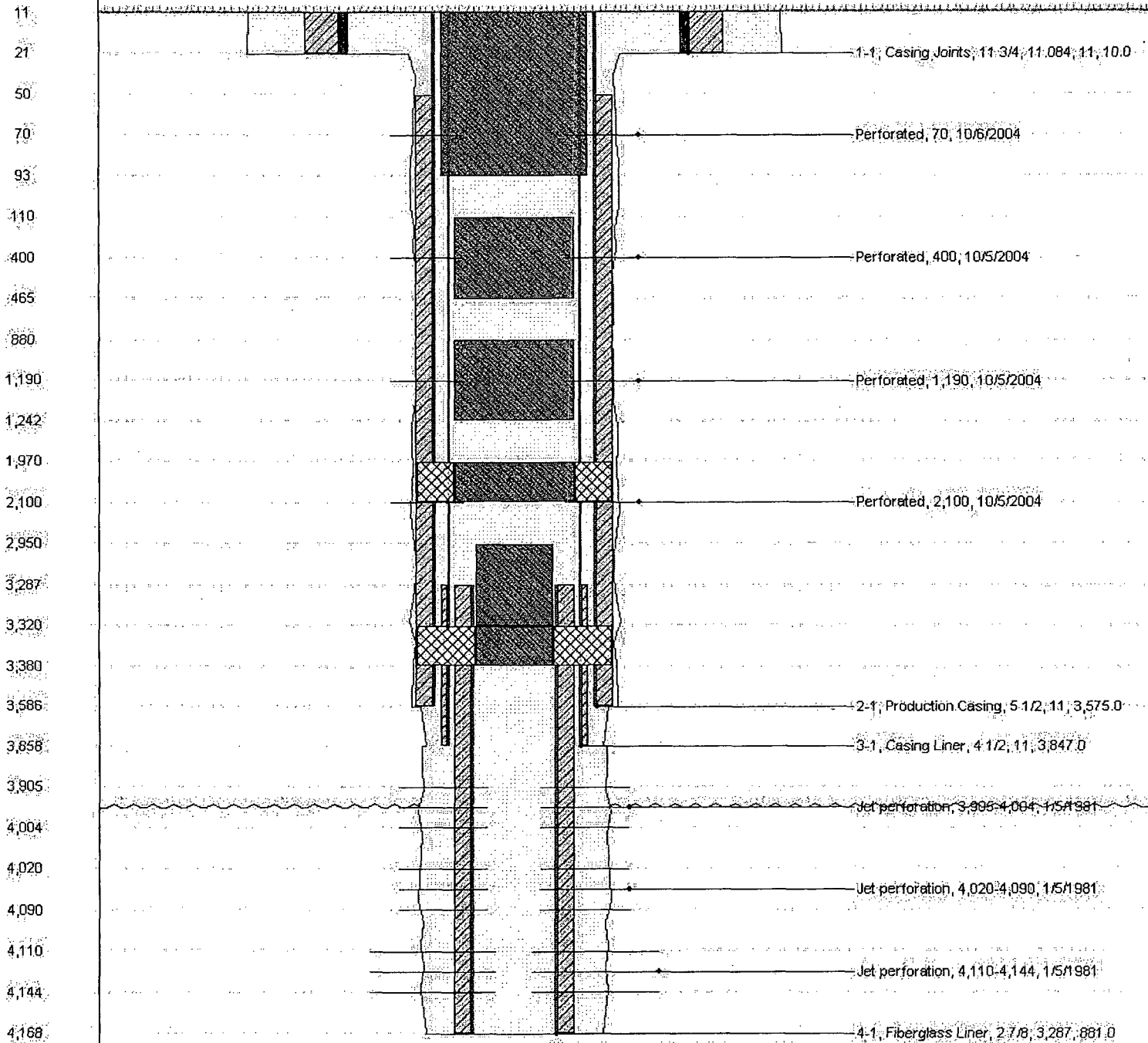


- ① Set 400 SXS open hole cement plug (Class H)
- ② Test plug to 1000 psi. If it does not test, set retainer @ 4-3700' & sq. below w/50 SXS
- ③ Spot cement to above salt section (900')
- ④ Shoot squeeze holes @ 850' & 50'
- ⑤ Set retainer @ 800'. Sq. w/400 SXS, spot 30 SXS to surface. POOH
- ⑥ Pump 60 SXS down csg., circ. cement to surface via csg-csg annuli.

approx last clean out depth

MCA 207

ftKB (MD)



MCA NO. 208

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

Plugged and abandoned-November
Completed-January 1941

8" Casing at 21' w/15 sx cement

140 sack cement plug 1250' to surface

30 sx squeezed into holes w 28'-30'

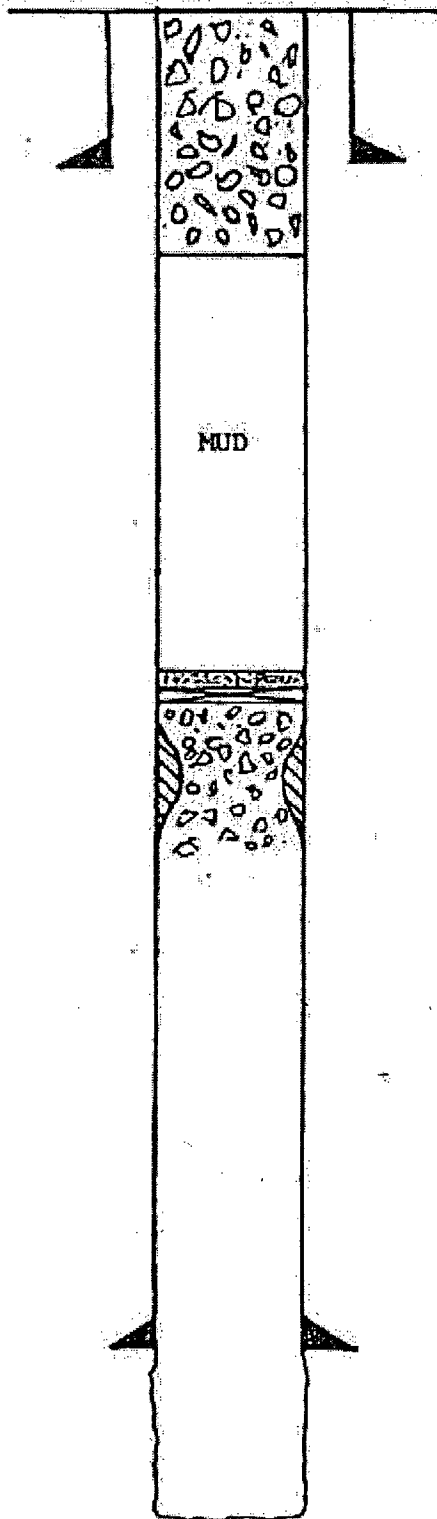
Salt zone approx. 1050'-2300'

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 qcs. 3841' to 4000'

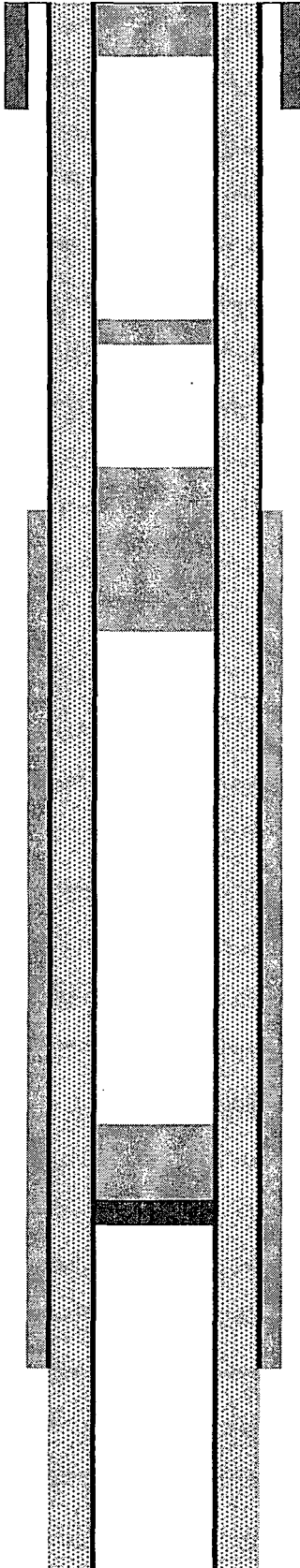
4000' TD



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'

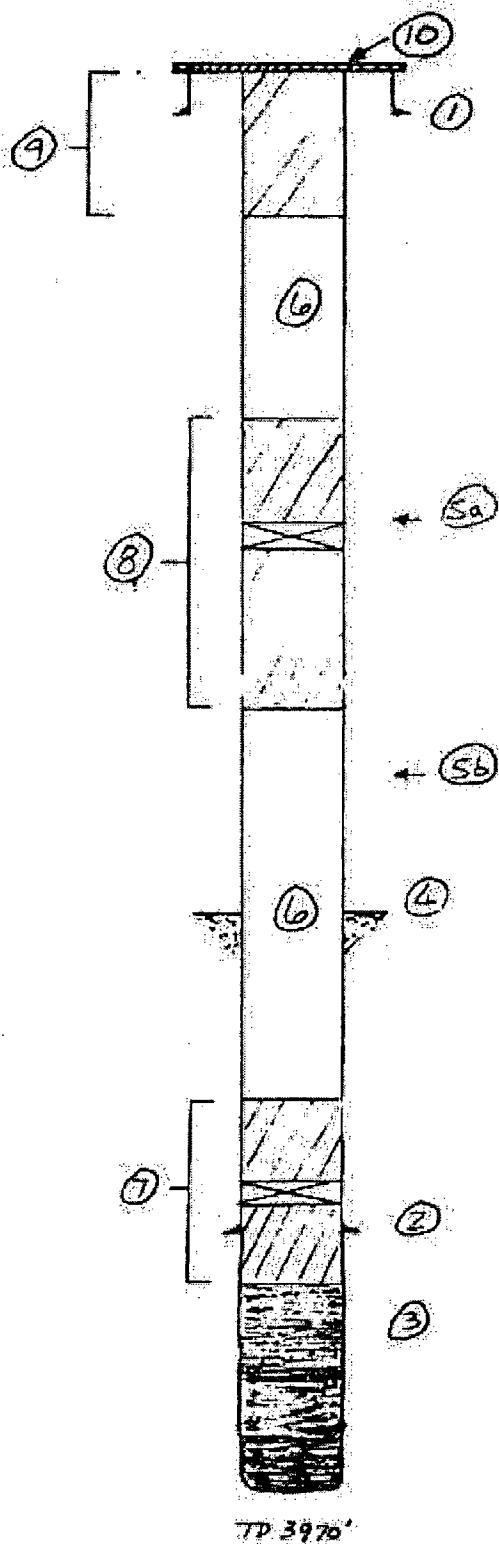
50 SX SQUEEZED BELOW RETAINER @ 3270'

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

4" @ 4020'
130 sx cement
TOC @ surface

T.D.: 4025'

MCA 210



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

RKB @ 3920'
DF @ 3927'
GL @ 3917'

MCA 220

Suparea

Hobbs

Lease & Well No

MCA Unit No. 220W

Legal Description

660' FSL & 650' FEL Sec 33 T-17-S R-32-E

County

Log

State

New Mexico

Field

Maljamar (Grayburg-San Andres)

Date Spudded

May 23, 1939

Reg Released

Aug 9, 1939

API Number

30-025-00754

Status

PLUGGED 04/18/07

Lease Serial No.

LC-059001

Perf & sqz'd 90 sx C cmt 100' to surface, circulated cmt

TOC 4-1/2" Liner @ 125'

Bradenhead Sqz surf-int csg annulus

w/20 bbls flow-check

w/100 sx Class H cement

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

TAGGED

Stimulation History:

Hole Size N/A

Interval

Date

Type

Gals

Lbs. Sand

Max Press

ISIP

Max Rate

Down

38841-3801

12/16/40

2 Qrs Nitro

3820-3915

6/11/47

450 Qrs Nitro

Plug back to 3500' w/10 sx; set BP @ 3500' w/1-1/2 sx on top

Perf 3198-3238 w/160 shots

3198-3238

6/28/54

Oil

10,000

20,000

2800

110

Squeeze 3198-3238 w/100 sx cement

Drill out cmt & CO to 3897'; dump 1 sx Calseal in btm of hole

Top of Calseal @ 3884'

Top Silt @ 1055'

8-1/4" 32# @ 1,195' w/ 50 sx

3587-3884

8/21/56

Gelled Crude

10,000

15,000

3400

18.5

25 sx C cmt 1,260 - 900' TAGGED

(perforated @ 1,245', unable to sqz @ 1,800 psi)

Cleanout from 3883-3902'

3/2/65

Convert to water injection

Set 4-1/2" 9.5# LINER @ 3815'

Sqz csg leaks @ 3547 & 3588 w/100 sx cement

Bradenhead Squeeze surface-intermediate casing annulus

w/20 bbls flow-check w/100 sx Class H cement

1/1/68

Shut-in

10/7/68

placed back on injection

7/14/92

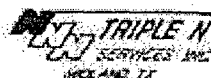
1.71 R Profile Nipple set @ 3541'

Baker Loc Set Pkr w/K valve Set @ 3515'

Temporarily Abandoned

Base Silt @ 2030'

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



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

- 1) 75 sx C cmt 3,810 - 2,677' TAGGED
- 2) Perf & sqz'd 40 sx C cmt 2,130 - 1,950' TAGGED
- 3) 25 sx C cmt 1,260 - 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

3188-3236 - Sqz'd w/100 sx

BP @ 3500' w/1-1/2 sx - drilled out

Baker Lockset w/K Valve RBP @ 3515'

Guberson Pkr w/plug set @ 3541'

Hole Size - N/A

7" 20# @ 3568.5' 3547'

Cmt'd w/100 sx 3588' - Csg leaks sqz'd w/70 sx

TOC @ N/A

Hole Size - N/A

4-1/2" 9.5# J-55 LINER @ 3815' cmt'd w/ 300 sx, TOC 125'

Casing / Openhole Capacities

4 1/2" 30# csg	10.865	BM3	0.0812	BM3
5 1/2" 17# csg	7.661	BM3	0.1305	BM3
7" 20# csg	4.869	BM3	0.2273	BM3
7" 26# csg	4.655	BM3	0.2148	BM3
7 1/2" 24# csg	3.715	BM3	0.2691	BM3
8 1/2" 20# csg	2.733	BM3	0.3659	BM3
8 1/2" 24# csg	2.797	BM3	0.3375	BM3
8 1/2" 28# csg	2.853	BM3	0.3505	BM3
8 1/2" openhole	4.024	BM3	0.2485	BM3
7 1/2" openhole	2.957	BM3	0.2392	BM3
6 1/2" openhole	2.032	BM3	0.4922	BM3
10" openhole	1.434	BM3	0.5454	BM3
12 1/2" openhole	1.222	BM3	0.8165	BM3

Seven Rivers

Grayburg 4th

3880'

Grayburg 5th

3741'

Grayburg 6th

3818'

QH 3557-3992'

3820-3915 - Shot w/450 Quarts

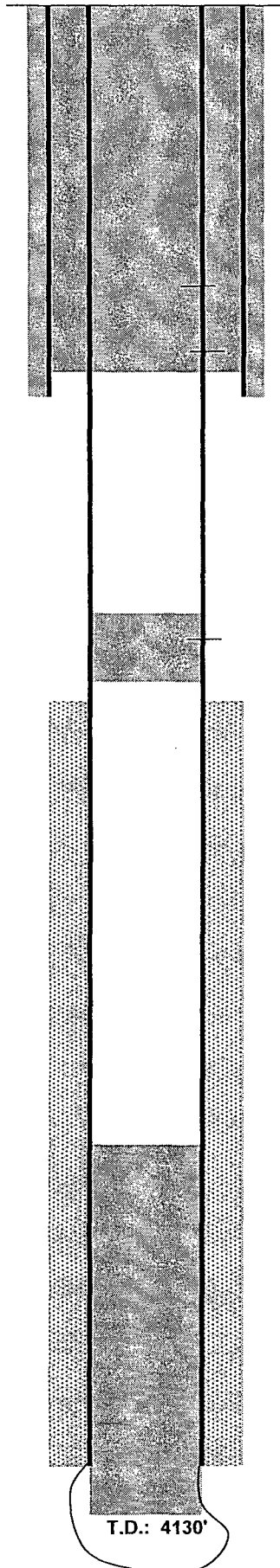
CALSEAL TOP @ 3884'

JUNK IN HOLE @ 3952'

P6TD @ 3941'
TD @ 4283'

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

8-5/8" @ 1206'
50 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'

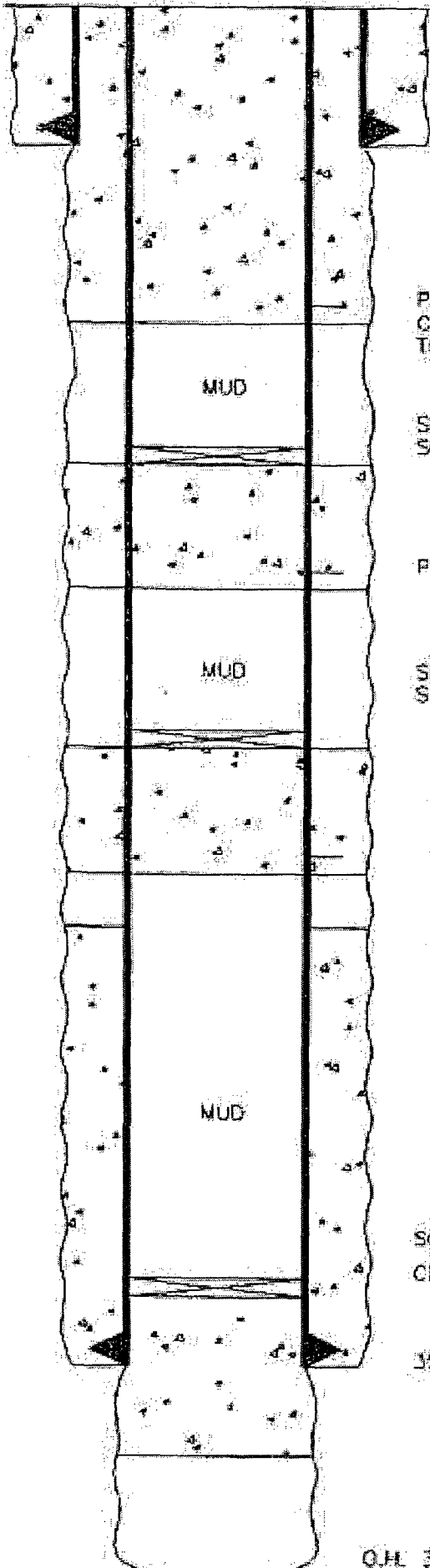
5-1/2" @ 3540'
TOC @ 3120'
100 sx cement

T.D.: 4130'

Elev. = 3951' GL

10/18/99

MCA 224



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

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

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

PERFORATE 5 1/2" CSG. @ 1200'

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

Hole in Csg. 2150'-2275'

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

SQUEEZE 25 SXS CEMENT THRU RETAINER
CEMENT RETAINER @ 3500'

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

O.H. 3547'-4209'

T.D. @ 4209'

CONOCO, INC.

M.C.A. Unit #224

560' FNL & 660' FEL

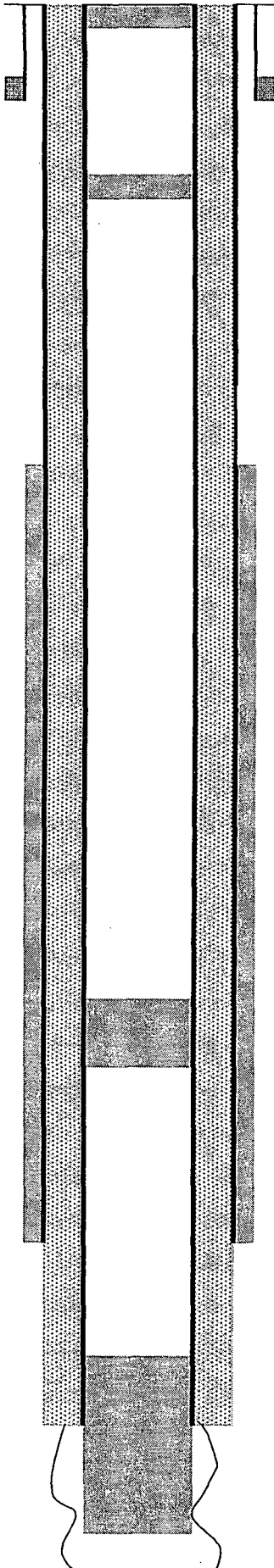
Sec. 33, T-17S, R-32E

Lea County, NM

WELLBORE DIAGRAM
PEARSALL FEDERAL A #3

15 SX @ SURFACE

8-1/4" @1123
50 SX CEMENT



Lease and Well No.:
Location:

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

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00804
PA'D

25 SX @1200-924'

25 SX @ 2800'

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

30 SX @3213-3341'

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

WELLBORE DIAGRAM
PEARSALL - FEDERAL A #1

25 SX SPOTTED AT SURFACE

Lease and Well No.:
Location:

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

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-00805
PA'D

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

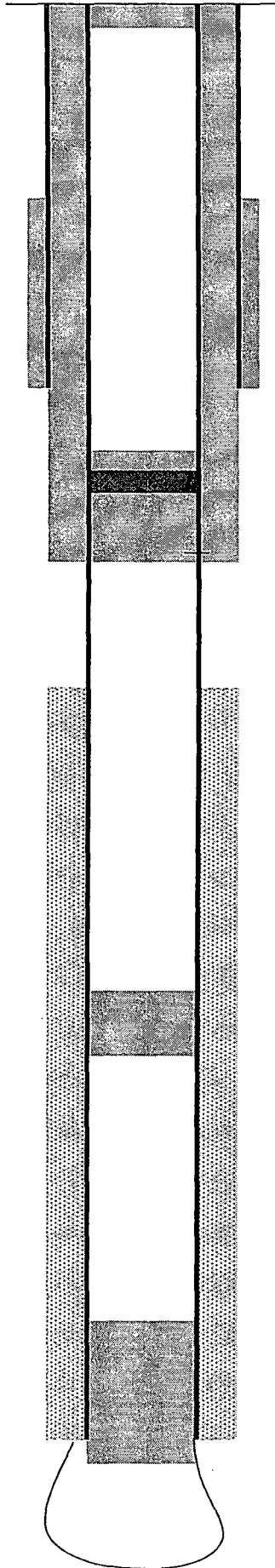
10 SX SPOTTED ON TOP RETAINER
RETAINER @ 1030
100 SX CIRC TO SURFACE

SQUEEZE @ 1125

25 SX @ 2320-2219'

25 SX @ 2760-2905'

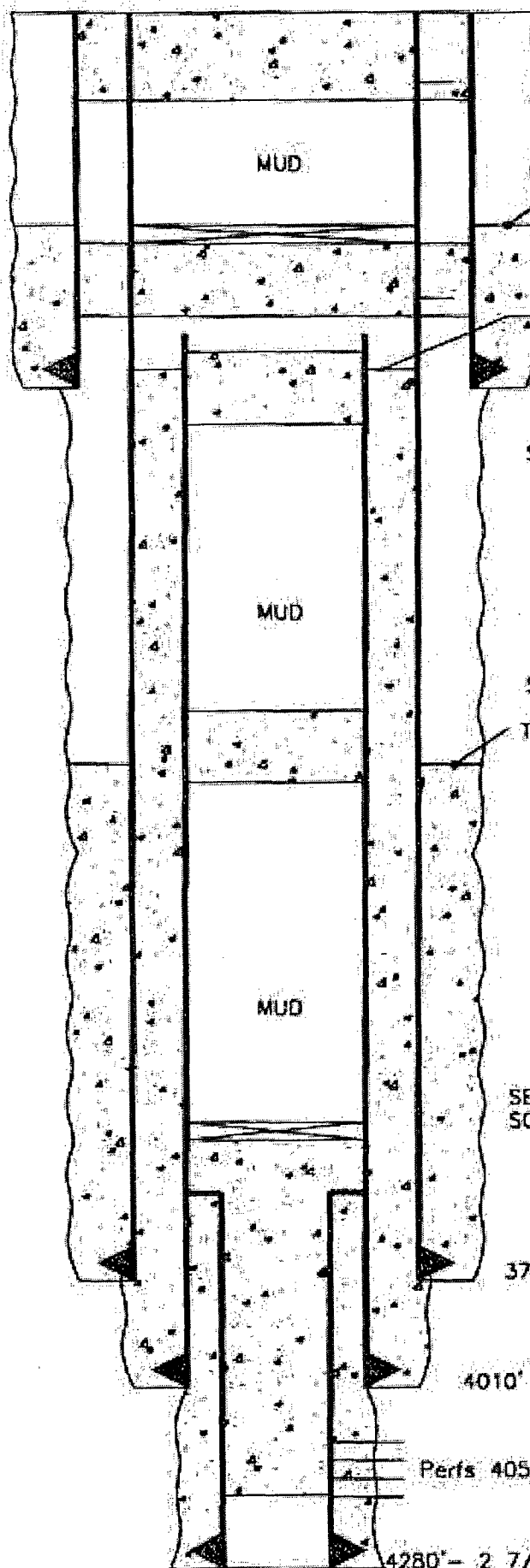
5-1/2" @ 2875'
100 sx cement



Elev. = 3906' GL +10' KB

4/20/00

MCA 232



CIRCULATE 80 SXS CEMENT THRU PERFS AT 300'

PERFORATE THE 7" CASING AT 300'

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

SET A CEMENT RETAINER AT 980'

SQUEEZE 35 SXS CEMENT THRU PERFS AT 1080'

PERFORATE THE 7" CASING AT 1080'

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

T.O.C. @ 1100'

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

SPOT 25 SXS CEMENT 1100'-1460'

SPOT 25 SXS CEMENT 2190'-2550'

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

SET A CEMENT RETAINER AT 3500'

SQUEEZE 25 SXS CEMENT THRU RETAINER

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

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

Perfs 4050'-4210'

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

T.D.=4330'

CONOCO, INC.

M.C.A. Unit #232

1880' FNL & 1980' FWL

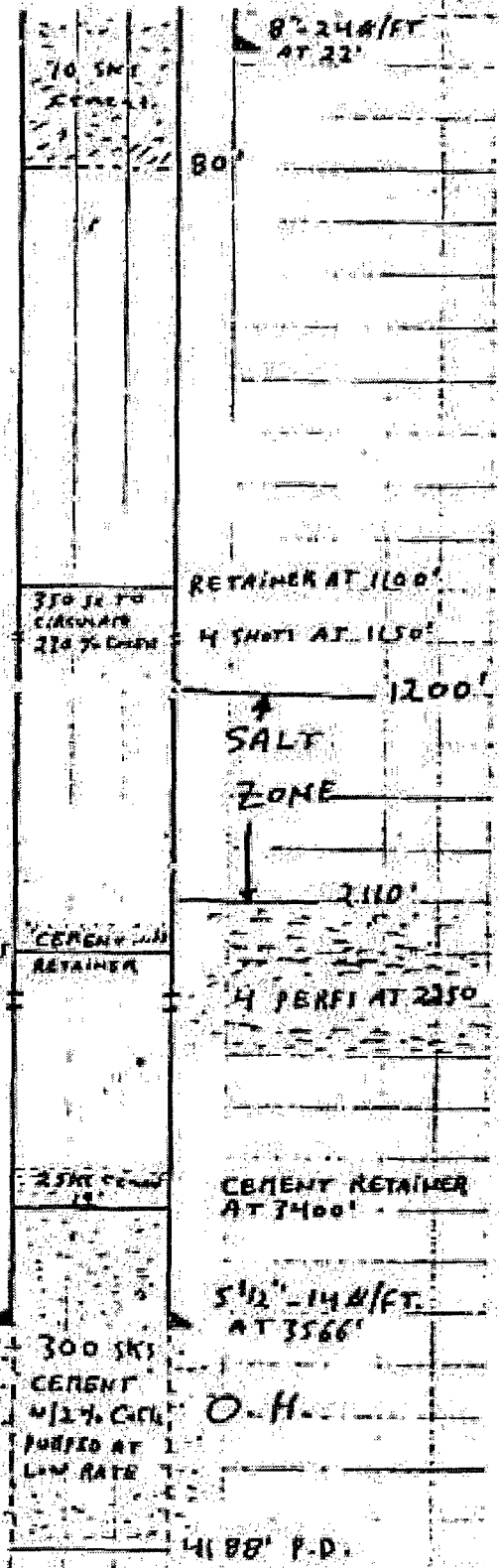
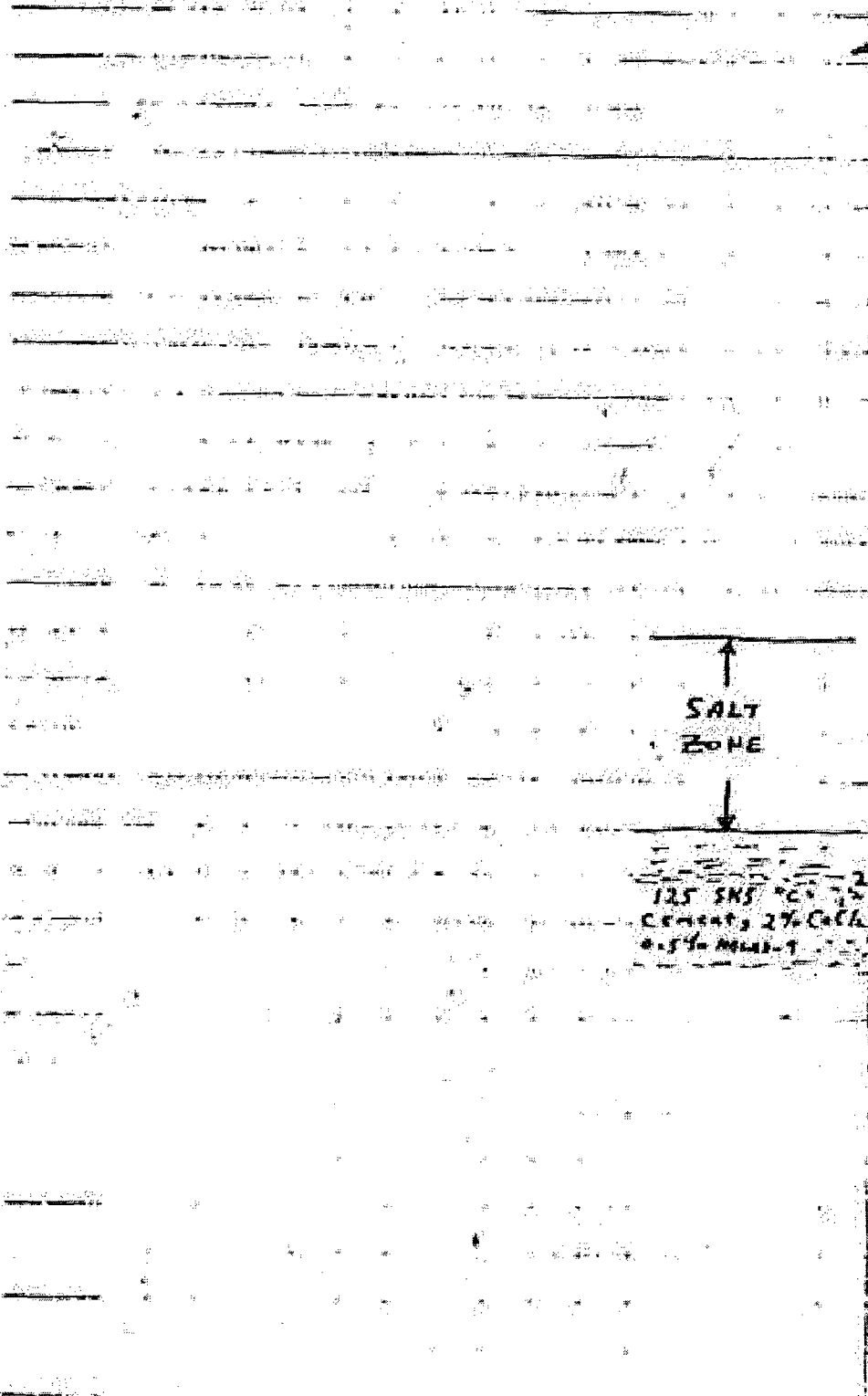
Sec. 33, T-17S, R-32E

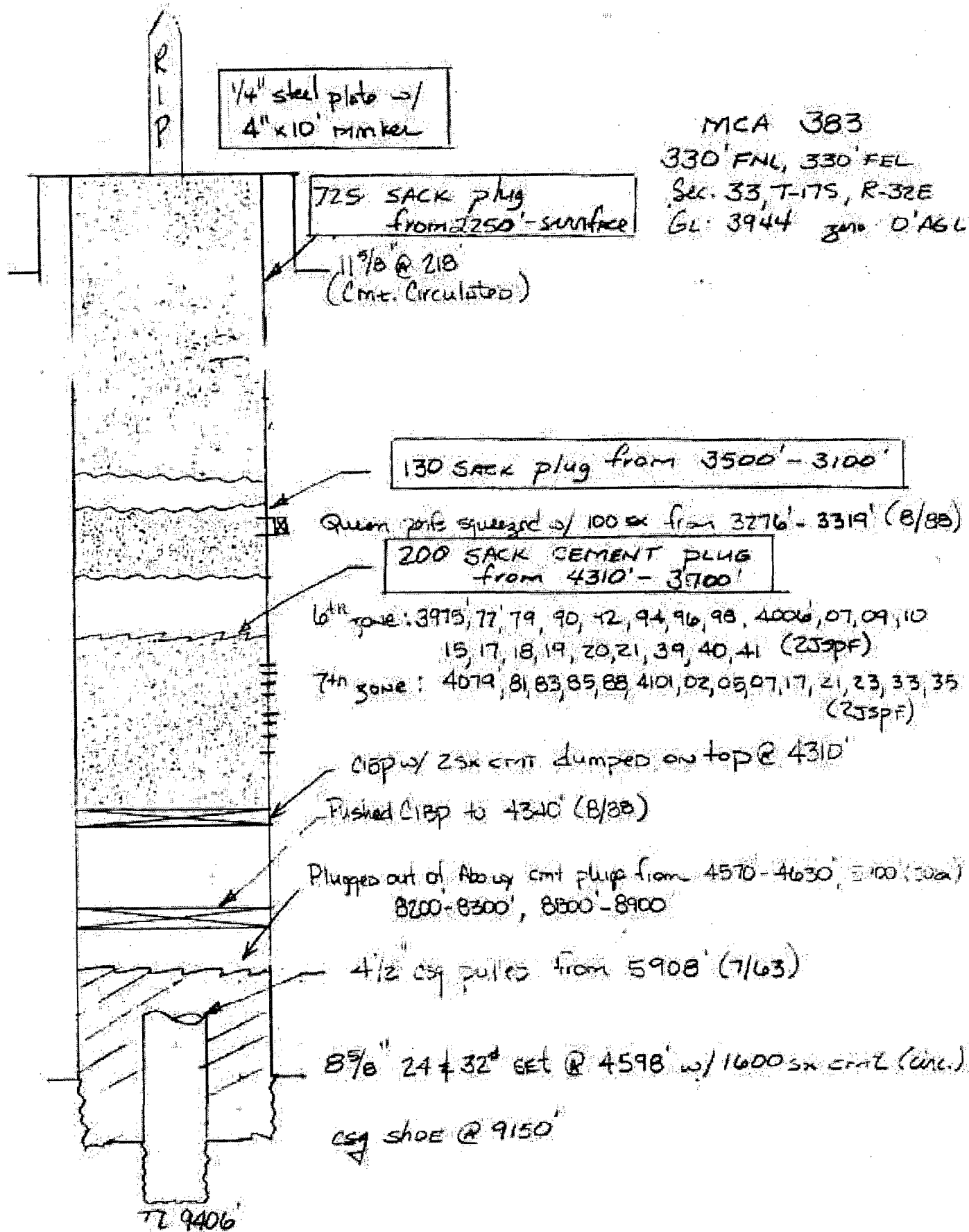
Lea County, NM

MCA NO. 230 IW

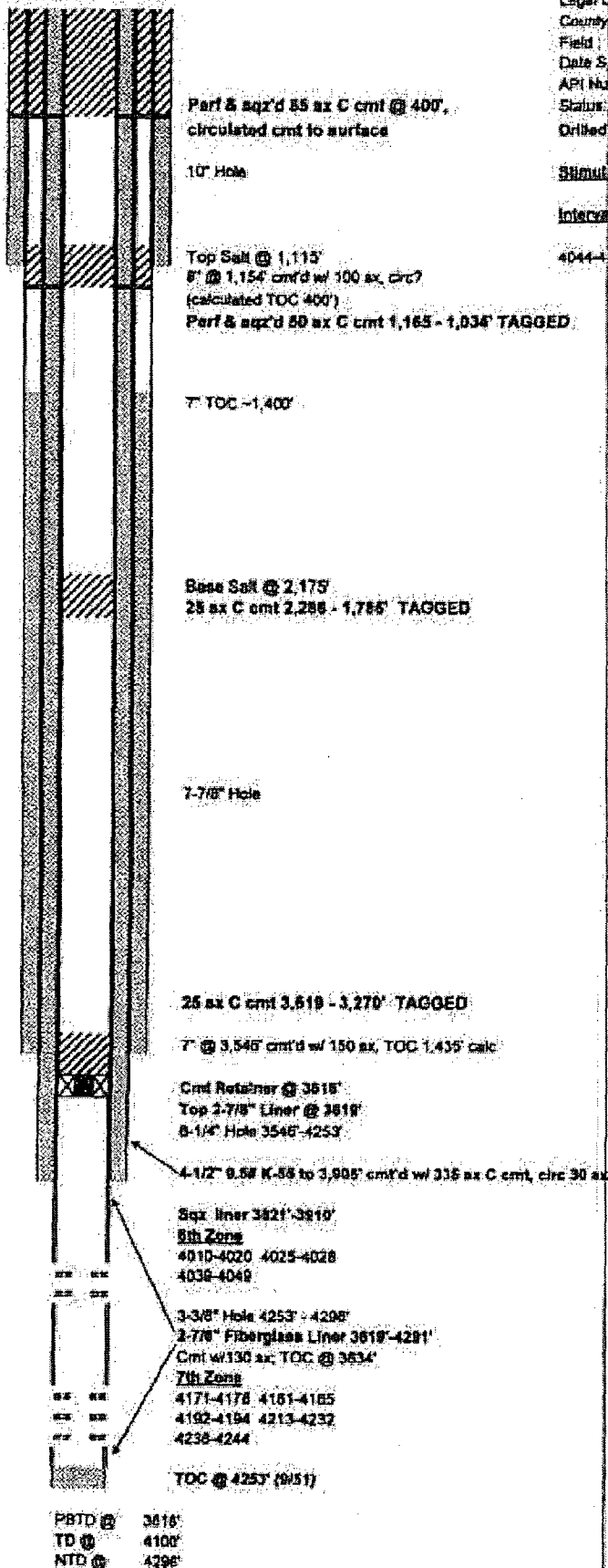
0.1737 in 100 ft of length

0.132 in 100 ft of length





RKB @ 3965'
OF @ 3964'
GL @ 3968'



MCA 226

Subarea: Matamor
Lease & Well No.: MCA Unit No. 226W
Legal Description: 880' FNL & 660' FWL, Sec. 34, T-17-S, R-32-E
County: Lea State: New Mexico
Field: Matamor (Graybury-San Andres)
Date Spudded: 2/25/41 Rig Released: 4/22/41
API Number: 35-025-00817
Status: PLUGGED 12/21/08
Drilled as Pearsall BXY No. 1

Simulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Max Down
4044-4394	4/22/41	Nitro	500 Quarts					
	9/10/51	Deepened to 4285'						
	9/12/51	Dump 8 ex; TOC @ 4280'						
	9/18/51	Dump 4 ex; TOC @ 4253'						
	5/1/63	Change in well designation, unitization renumbered as MCA Unit No. 226 from Pearsall BXY No. 1						
	5/5/64	Cut paraffin and swab to make flow						
	2/12/65	Swab to make flow						
	10/24/68	Check and pulled tubing; rerun and run pump and rods						
	5/16/69	RU unit, hot tag 2 ft. Tag btm. Tag set 5' off btm.						
	12/7/69	RU unit, pull rods and pump, change pump. Rerun in well, put back on production.						
	10/25/72	Tag fill @ 3948', CO from 3948' to 4253'. Set pcr @ 3870' and frac w/30,000 gals treated prod wtr and 60,000# 20/40 sand @ 16.8 BPM @ 3300 psi. AFE 40-61-1685						
	1/5/73	RU unit, pulled rods, change 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						
	6/27/74	RU unit, pulled rods & pump. Dropped SV and 1st tr. Pull tag, change out MA and 1st ft whole in it. Run rods and new pump and put back on prod.						
	7/31/75	Set 4-1/2" liner @ 3905', cmt w/335 ex 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'-4291' and perforate 8th Zone 4010'-4049'; 7th zone 4171'-4232' and 4238'-4244'						
	5/24/88	Run injection profile - minor channeling above top perfs						
	4/17/89	Run Injection Profile w/24 hr shut in temp survey						
	12/31/89	Set cement retainer @ 3816', circ 80 bbls pcr fluid. Temporarily Abandoned						

TRIPLE N
SERVICES INC.
MELROSE TX

PLUGS SET 12/18/05 thru 12/21/08

- 1) 25 ex C cmt 3,519 - 3,270' TAGGED
- 2) 25 ex C cmt 2,286 - 1,785' TAGGED
- 3) Perf & sqz'd 50 ex C cmt 1,165 - 1,034' TAGGED
- 4) Perf & sqz'd 85 ex C cmt 400' to surface, circ

Capacities

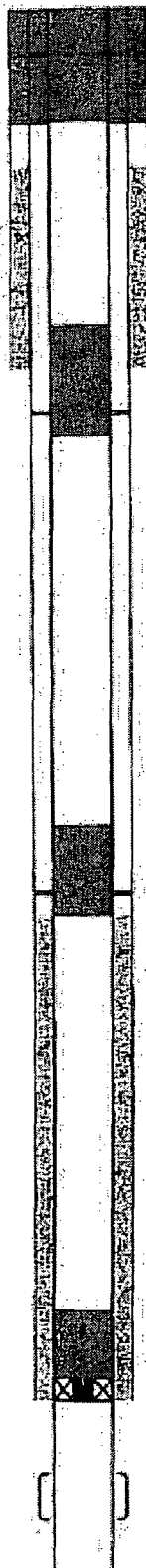
4 1/2" 9.58 csg:	10.965 bbls	0.0912 bbls
4 1/2" 10.23# csg:	11.167 bbls	0.0895 bbls
6-3/4" openhole:	4.024 bbls	0.2465 bbls
7-7/8" openhole:	2.957 bbls	0.3382 bbls
10" openhole:	1.834 bbls	0.5454 bbls
7 5/8" 24# csg:	3.715 bbls	0.2881 bbls
8 5/8" 20# csg:	2.733 bbls	0.3639 bbls
8 5/8" 24# csg:	2.797 bbls	0.3575 bbls

PLUGGED WELLBORE SKETCH
ConocoPhillips Company - Permian Basin Business Unit

MCA 227

Date: March 2, 2005

RKB @ N/A
 DF @ N/A
 CL @ N/A



80' ex C cmt sq'd 75' - surface

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

Top of Salt @ 1100'
 8-14" @ 1,135' w/ 50 ex
 TOC @ Surface (?)

40' ex C cmt 1,248 - 1,030' TAGGED
 Perforated at 1,188', unable to squeeze
 at 1,000 psi

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

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

OH 3743' - 4171'

4045' - 4150' shot w/270 qts Nitro

PBTD @ 3700'
 DTD @ 4171'
 NTD @ 4200'

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

Mallamar
 MCA Unit No. 227
 6607 FNL & 19807 FWL, Sec. 34, T-17-S, R-32-E
 Lea State New Mexico
 Mallamar (Grayburg-San Andres)
 June 15, 1941 IPP:
 30-025-00818
 Plugged & Abandoned 03/01/05

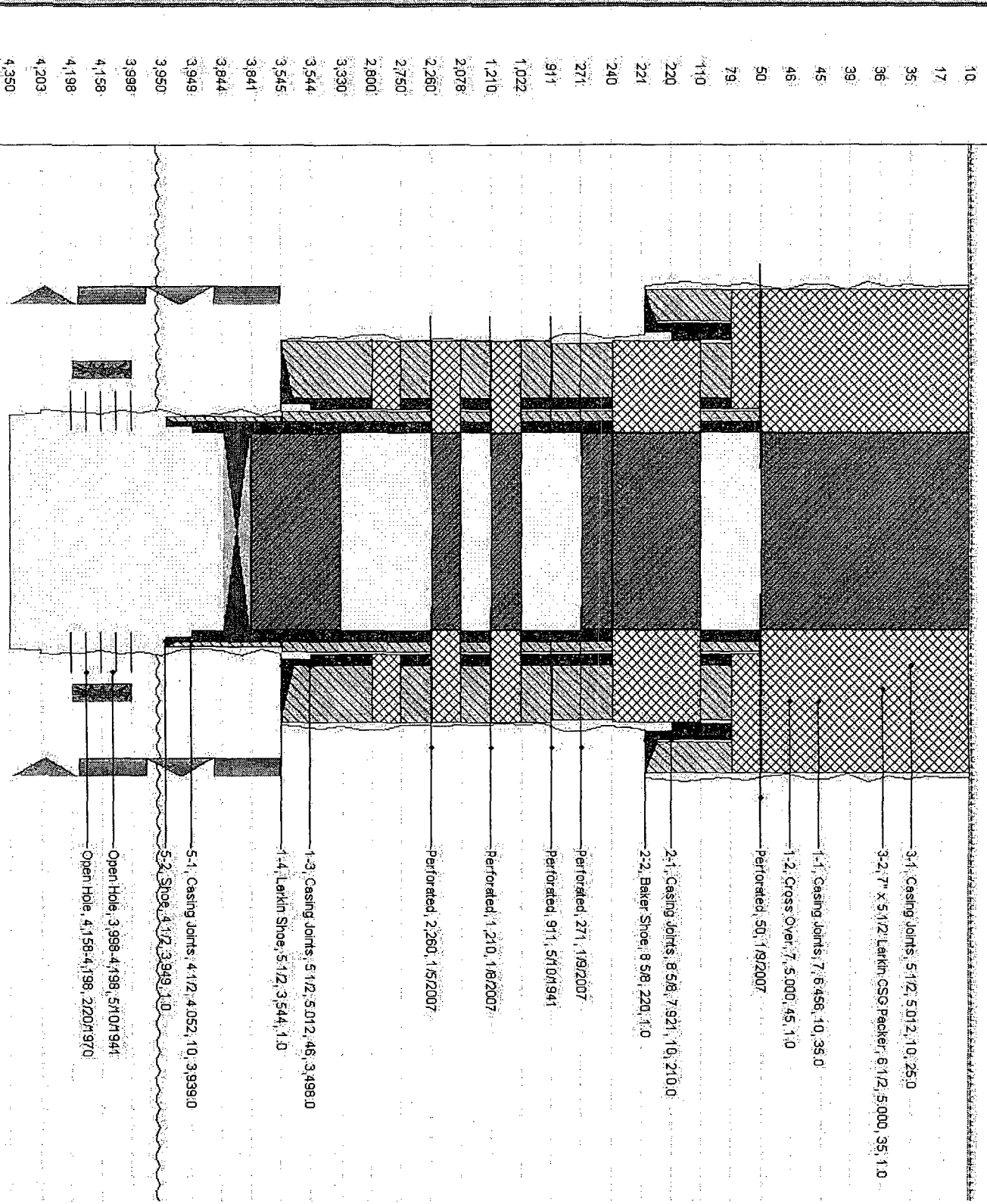
Stimulation History:

Interval	Date	Type	Gels	Lib. Sand	Max Press	Max IHP	Max Rate	Down
OH 4045-4150	8/13/41	Nitroglycerin	270 Quarts					
	5/1/53	Effective with Utilization renumbered MCA Unit No. 227.						
3743-4171	3/18/71	Scale inhibition treatment						
	9/13/86	CO and jet wash to 4140'						
3743-4171	9/15/86	15% NEFE	2,688		1550	1500	2.5	2-7/8"
	9/29/86	Test 4 BO, 85 BW						
	10/17/89	Deepen from 4171' to 4200'						
3743-4200	10/18/89	15% NEFE	3,750	800#RS	2100	1000	4.0	2-7/8"
		20# Gel	22,461	43,378	3100	2000	18.0	
	10/25/89	Test 3 BO, 11 BW						
	1/17/90	Change rod string						
	3/22/90	Parted rods						
	5/22/90	Parted polish rod. CO 22 3/4" rods due to being cork screwed						
	6/17/91	COP: fish part						
	8/5/91	fish PR - could not retrieve						
		fish rods and pump						
	8/1/92	CO tight 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' ex C cmt on CCR 3,700 - 3,525'
- 3) 30' ex C cmt 2,437 - 2,235' TAGGED
- 4) 40' ex C cmt 1,248 - 1,030' TAGGED
- 5) 150' ex C cmt sq'd 400 - 75' TAGGED
- 6) 50' ex C cmt sq'd 75' - surface



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)

MUD

SPOT 25 SXS CEMENT PLUG 800'-1050'. TAG PLUG.

5 1/2" Casing Perforated at 1000' Sqz'd w/250 sxs

MUD

SPOT 25 SXS CEMENT PLUG 1900'-2150'. TAG PLUG.

T.O.C. @ 2125' (Calculated)

MUD

Perfs 3466'-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.L.B.P.

C.L.B.P. @ 4112'

4170' - 4 1/2", 10.23#, Hydril FS Cemented w/250 sxs

O.H. 4170'-4440'

T.D. @ 4440'

CONOCO, INC.

M.C.A. Unit #229

1980' FNL & 660' FWL

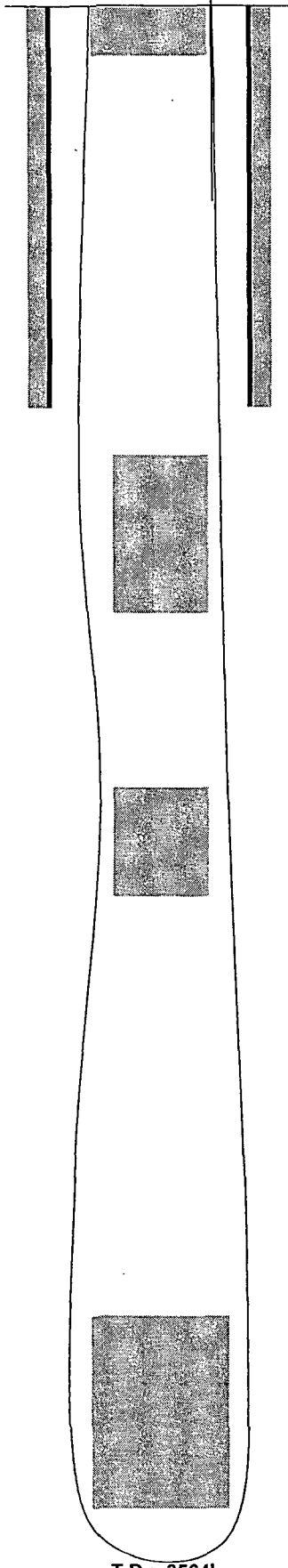
Sec. 34, T-17S, R-32E

Lea County, NM

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

30 SX @ 1110-1208'

20 SX @ 2378-2313'

35 SX @ 3450-3564'

T.D.: 3564'

3-5/8" @ 87'
TOC @ surface
circulate
100 sx cement

File Tools Help Well: MCA 182

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

MCA 182

Reports Schematic

Wellbore

Job

Date

Main Hole

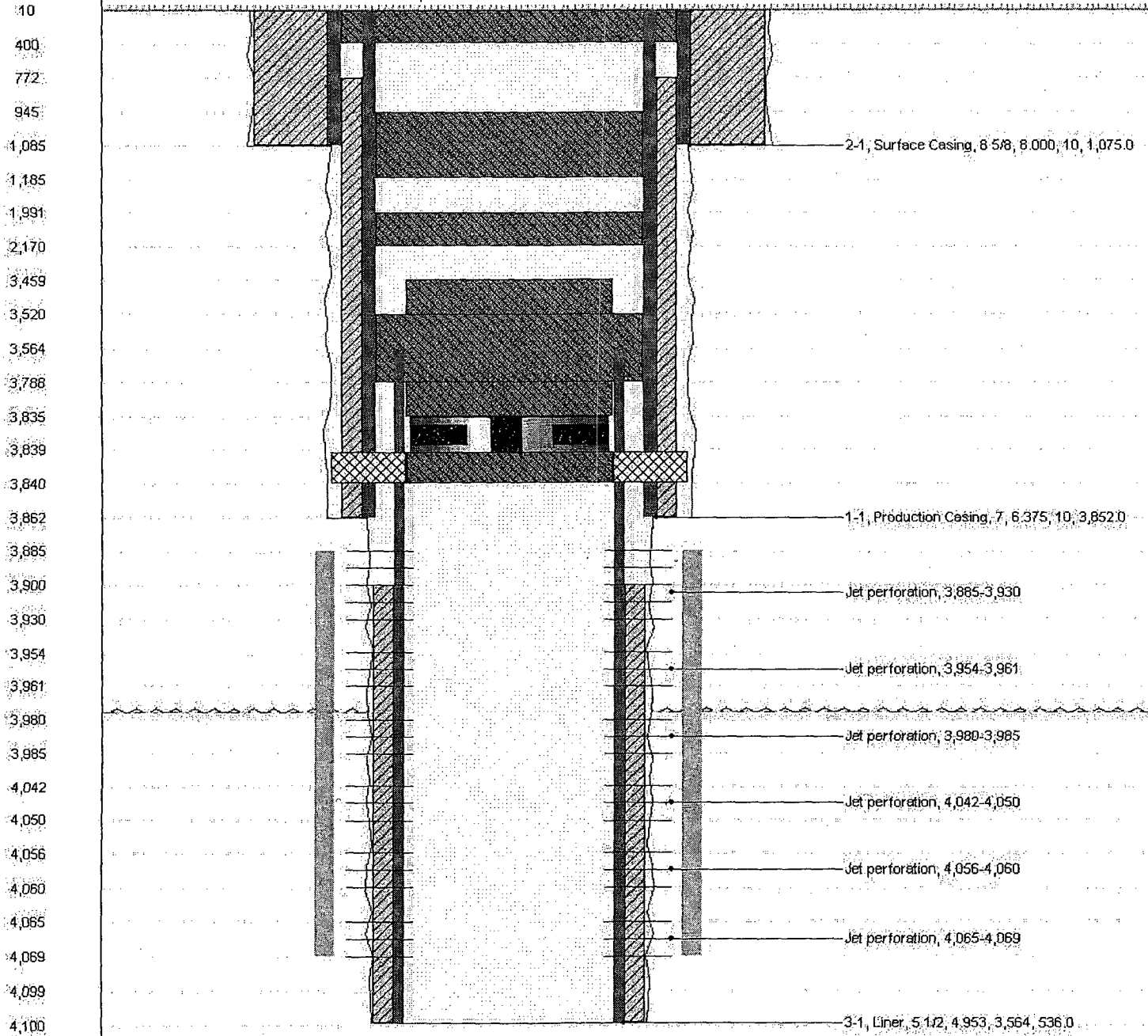
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<now>

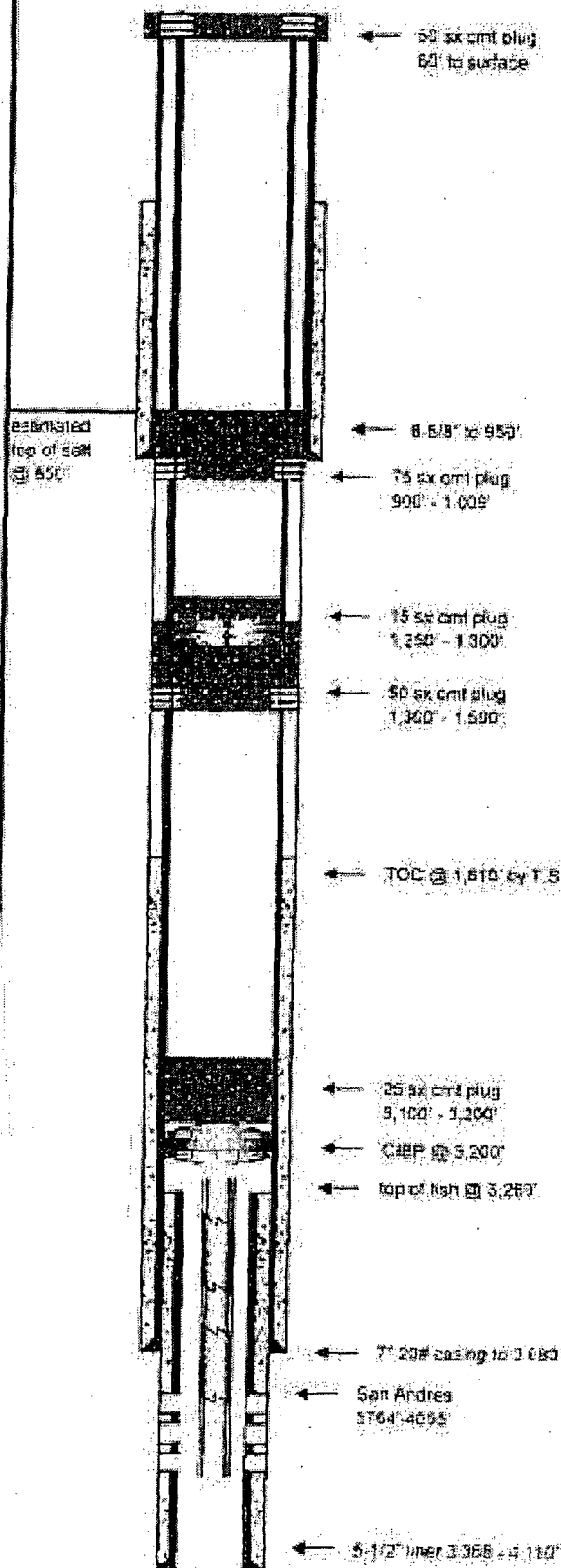
Well Config: Vertical - Main Hole, 3/18/2009 4:38:33 PM

Schematic - Actual

ftKB (MD)



MCA 174



Field Name:	Maljamar		
County:	Lea	Well Type:	Oil
State:	New Mexico	Depth:	4,110
RRC District:		Drilling Commenced:	
Section:	28	Drilling Completed:	
Block:		Date Well Plugged:	
Survey:	T-17-S, R-32-E	Longitude:	
		Latitude:	
		Freshwater 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 CIBP	3,200	3,200			
2 Cement-Class C - Balanced	3,100	3,200	25	14.8	
3 Cement-Class C - Sqz/Retainer	1,300	1,500	50	14.8	
4 Cement-Class C - Balanced	1,250	1,500	15	14.9	
5 Cement-Class C - Sqz/Packer	900 (tag)	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 lbs 2-7/8" tubing and mud anchor, top at 3,259'

Prepared By: Jim Newman

Date: 9/5/2001

TRIPLE N
SERVICES INC.
MCKINNEY, TX

WELLBORE DIAGRAM
BAISH - FEDERAL B #2

20 sx @ surface

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

25 sx @ 185'

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

Lease and Well No.:
Location:

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

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-21951
PA'D

shot @ 400 and 310'

25 sx @ 4660'

40 sx @ 5250'

25 sx @ 7005'

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

Perforations
9780-9800'

20 sx @ 9870'

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

50 sx @ 11550-11450'

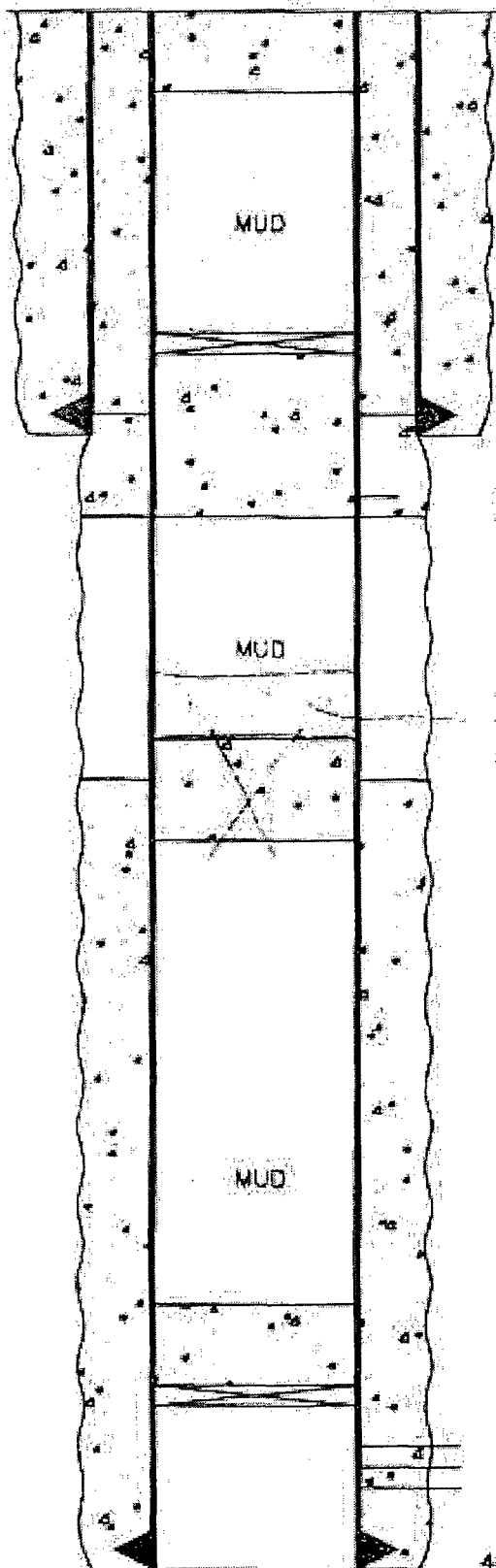
50 sx @ 12250-12150'

T.D.: 13735'

Elev. = 3977' GR

3/29/00

MCA 280



SPOT 10 SXS CEMENT SURFACE PLUG

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

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

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

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

SPOT 25 SXS CEMENT 2000'-2250'

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

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

Perfs 3810'-4080'

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

T.D. @ 4175'

CONOCO, INC.

M.C.A. Unit #280

2565' FNL & 1345' FEL

Sec. 28, T-17S, R-32E

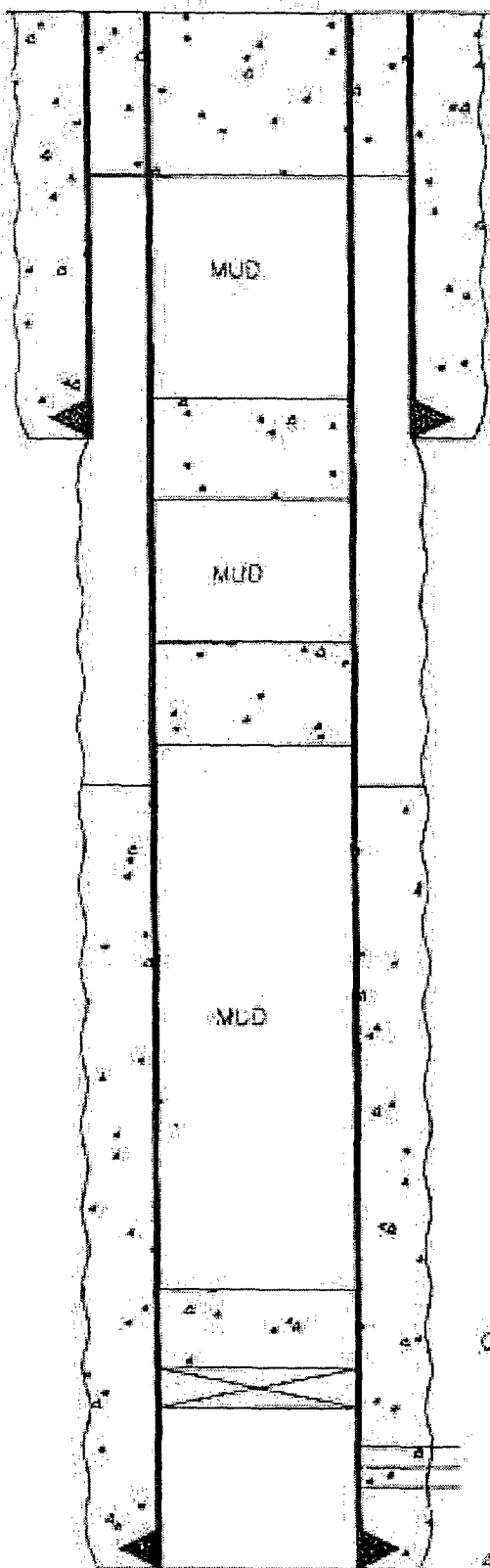
Lea County, NM

Elev. = 4027'

7/22/96

MCA 292

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



916' - B 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'-4161'

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

T.D. @ 4200'

CONOCO, INC.

M.C.A. Unit #292

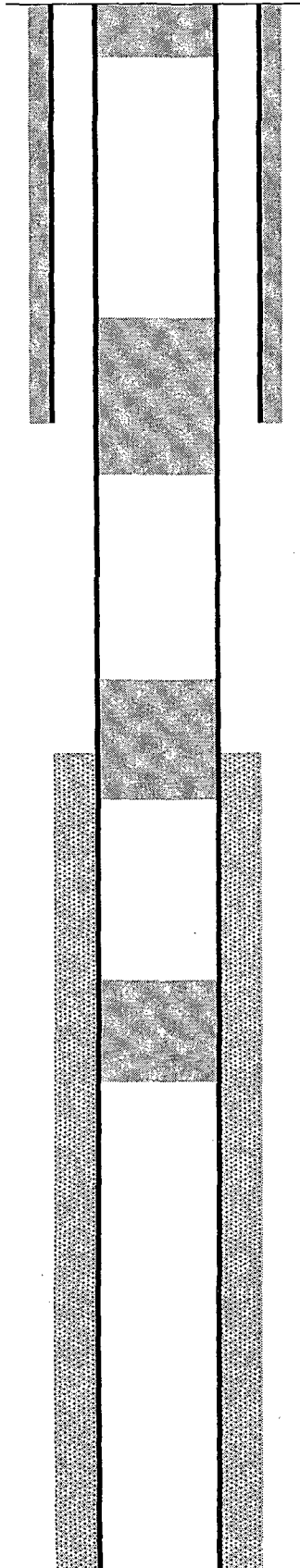
1295' FNL & FWL

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

Lee County, NV

WELLBORE DIAGRAM
MCA UNIT #307

10 sx from 60-surface



Lease and Well No.:
Location:

MCA UNIT #307
Sec. 27, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-24058
PA'D

1-5/8" @ 850'
TOC @ surface
circulate
125 sx cement

25 sx 654-901'

25 sx 1705-1919'

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

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

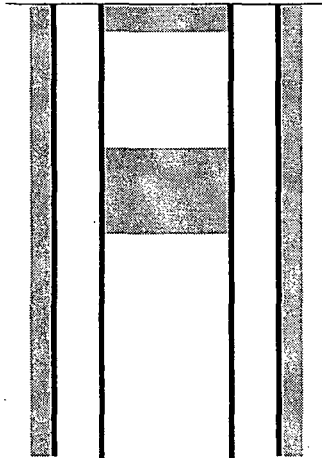
5-1/2" @ 4140'
TOC @ 1850'
300 sx cement

T.D.: 4140'

WELLBORE DIAGRAM

MCA UNIT #311

10 sx @ 60' to surface



Lease and Well No.:
Location:

MCA UNIT #311
Sec. 26, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-24101
PA'D

25 sx @ 229-470'

3-5/8" @ 1000'
TOC @ surface
circulate
500 sx cement

25 sx @ 1159'

90 sx cement @ 1850-2025'

Perf @ 2025'

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

25 sx cement @ 3678-3919'

cibp @ 3919'

Perforations
INTERVAL

3979-4190'

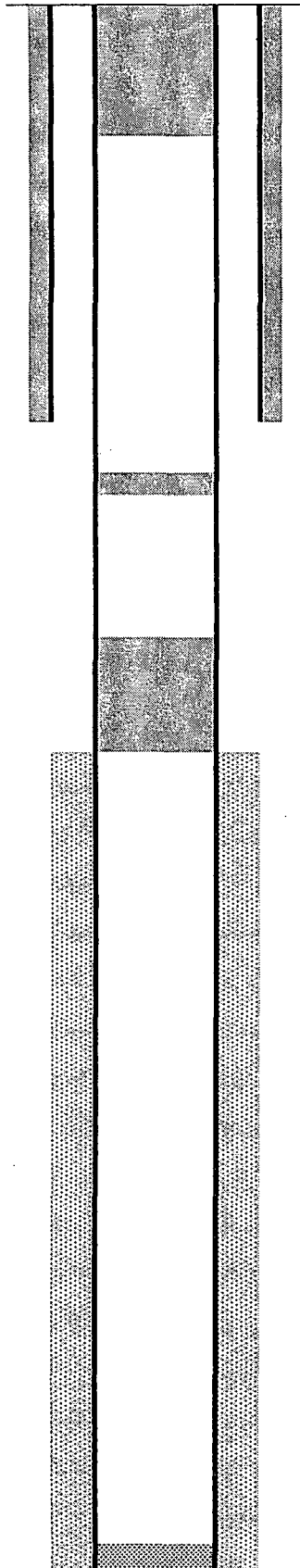
5-1/2" @ 4325'
TOC @ 2860'
300 sx cement

T.D.: 4325'

WELLBORE DIAGRAM

MCA UNIT #315

80 sxs cement from 300' circulated to surface



Lease and Well No.:
Location:

MCA UNIT #315
Sec. 27, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-24128
PA'D

8-5/8" @ 995'
TOC @ surface
circulate
475 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

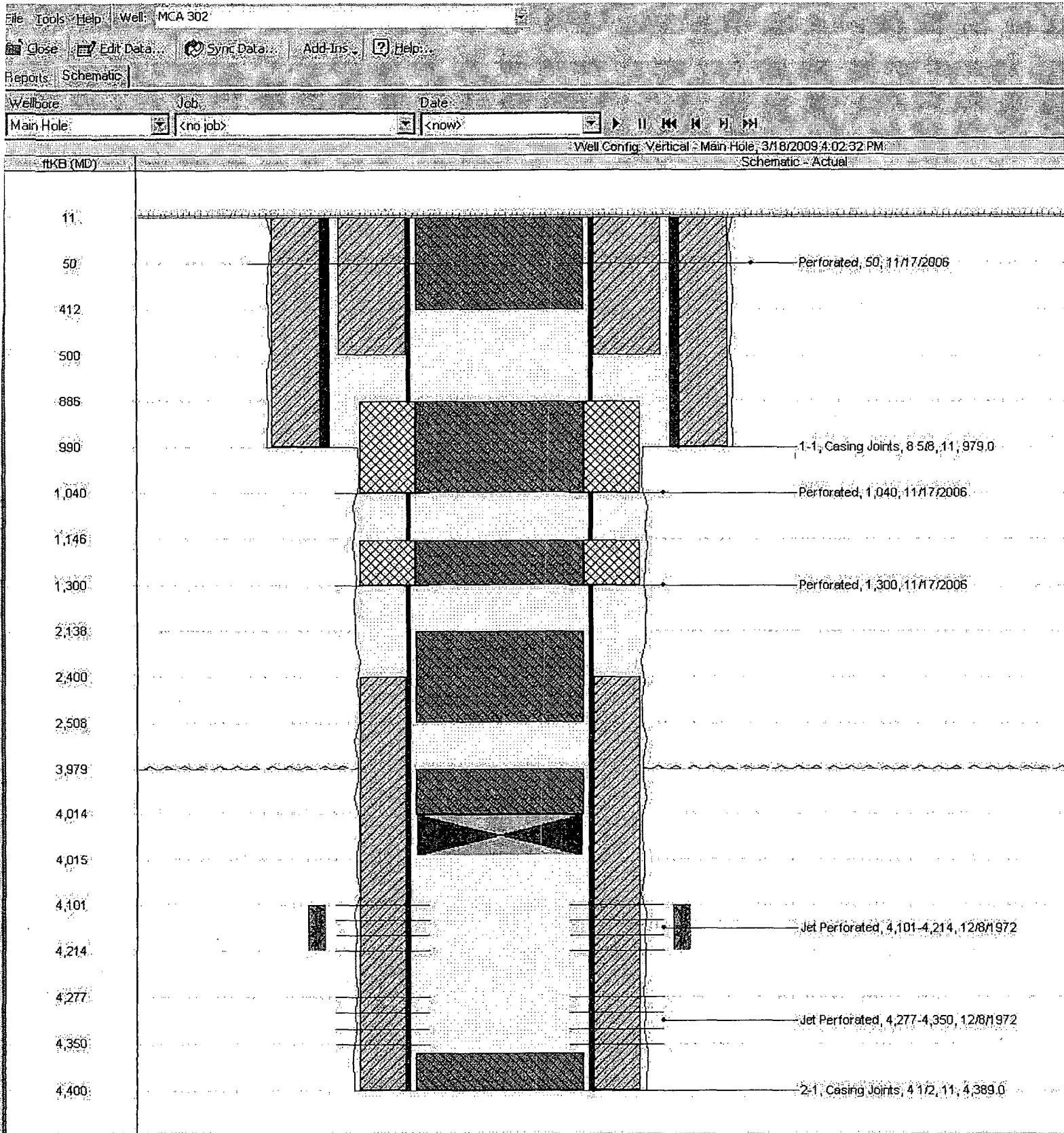
INTERVAL

3962-4190 GRAYBURG SAN ANDRES

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

T.D.: 4260'

MCA 302



WELLBORE DIAGRAM

MCA UNIT #336

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

Lease and Well No.:
Location:

MCA UNIT #336
Sec. 23, T17S-R32E

County/State:
Field:

Lea County, New Mexico
Maljamar

API Number:
Status:

30-025-24370
PA'D

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

Squeeze holes @ 800'

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

Squeeze holes @ 2400

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

Perforations
INTERVAL

3877-4043'

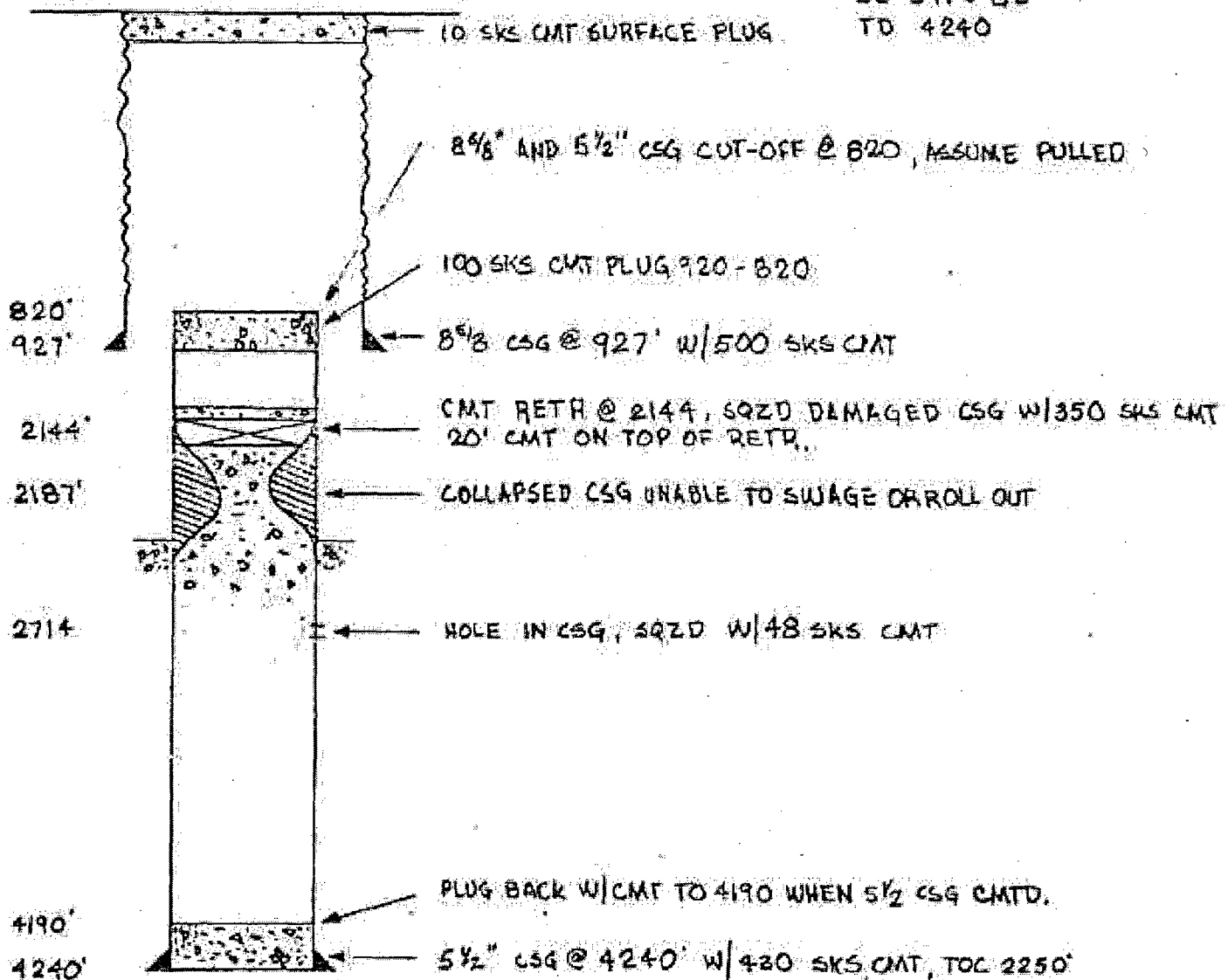
5-1/2" @ 4200'
TOC @ 2720'
500 sx cement

T.D.: 4200'

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

PLUGGED AND
ABANDONED 12/20/76

SPUD 7/26/73
EL 3975 GL
TD 4240



PAST HISTORY

- 1976 - CSG LEAK @ 2714, SQZD W/48 SKS CMT, DRILLED OUT
FOUND BEND IN CSG @ 2187-2193, TBG WAS CONK SCREWING UNABLE
TO CORRECT.
- 12/21/76 - P&A; SET CMT RETR @ 2144 SQZD CSG W/350 SKS CMT, PERF @ 918-920 W/
2-1/2\"/>

MCA NO. 350

10 sxs Surface Plug

10 ppq
brine

820'

Sqzd @ 723' w/ 225 sxs

Sqzd @ 800' w/ 425 sxs

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

Spot Plug 25 sxs 1020' - 820'

1020'

Sqzd @ 1775' w/ 200 sxs

10 ppq
brine

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

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

Perfs 4026' - 4192'

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

TD 4350'



25 sq cmt sq'd under 60' to surface

12-3/8\" set at 723'

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

25 sq cmt plug 1,023 - 775'

25 sq cmt plug 2,173 - 1,918'

25 sq cmt plug 3,136 - 2,882'

CIBP @ 3,136'

Queen 3198-3222'

9-5/8\" set at 4,500'

50 sq cmt plug 4450'-4850'

Field Name: Pearsall Queen

County: Lea

Well Type: gas

State: New Mexico

PBTD:

4,850

RRC District:

Drilling Commenced:

October 14, 1980

Section: 28

Drilling Completed:

March 18, 1981

Block:

Date Well Plugged:

December 19, 2003

Survey: T-17-S; R-32-E

Longitude:

Latitude:

Freshwater Depths:

API #:

42-025-27068

Lease or ID:

LC 057210

Casing

Description	Size (inches)	Depth (feet)	TDC (feet)	Cement (sacks)	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 (sacks)	Volume (cu ft)
1 Cement-Class C - Balanced	4,450	4,850	50	66
2 CIBP	3,136	3,136		
3 Cement-Class C - Balanced	2,882	3,136	25	33
4 Cement-Class C - Balanced	1,918	2,173	25	33
5 Cement-Class C - Balanced	775	1,023	25	33
6 Cement-Class C - perf & sq'd	862 (tag'd)	773	40	53
7 Cement-Class C - perf & sq'd	surface	60	25	33

Perforations

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.

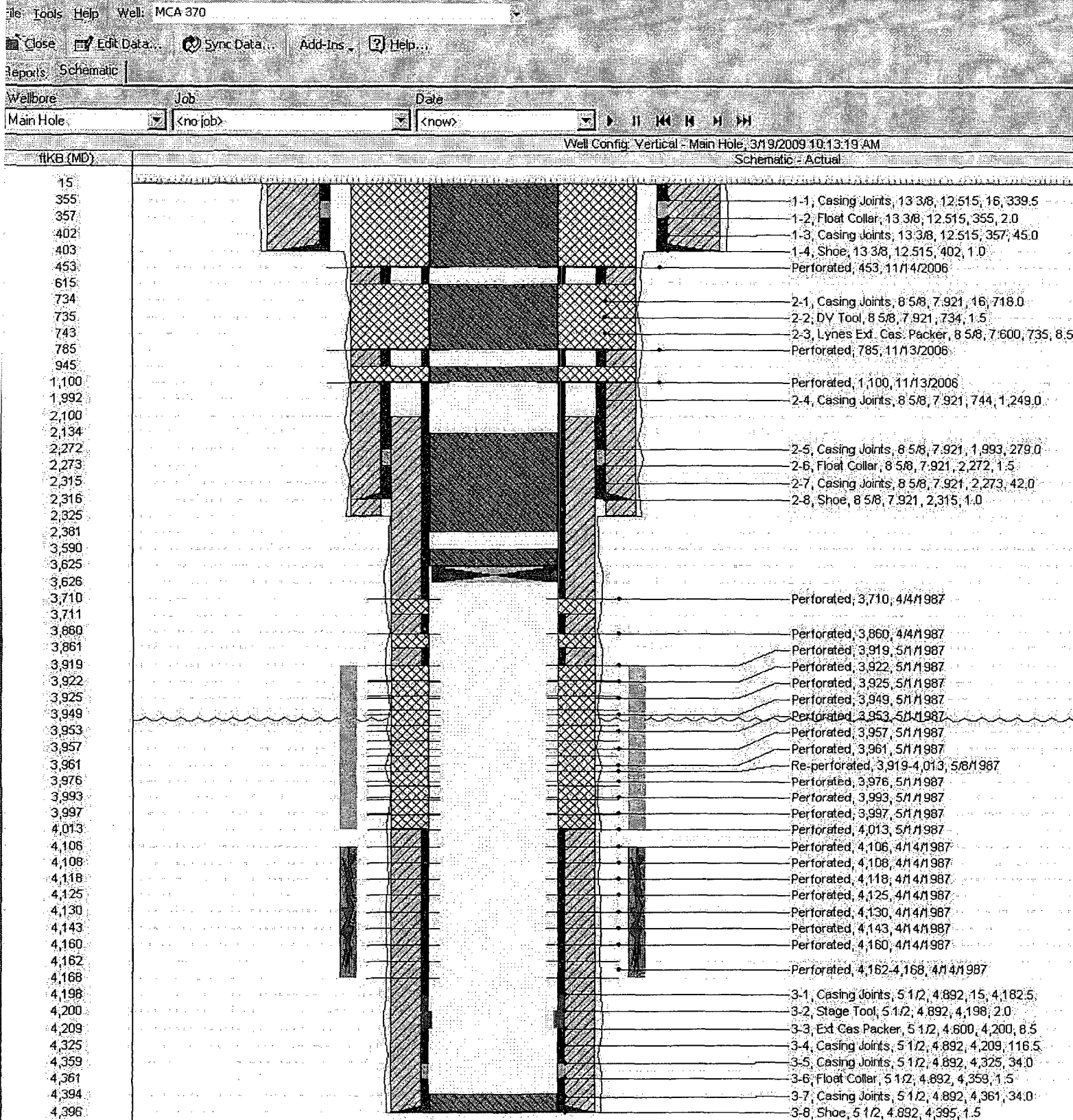
Prepared By:

Jim Newman

Date:

December 22, 2003

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

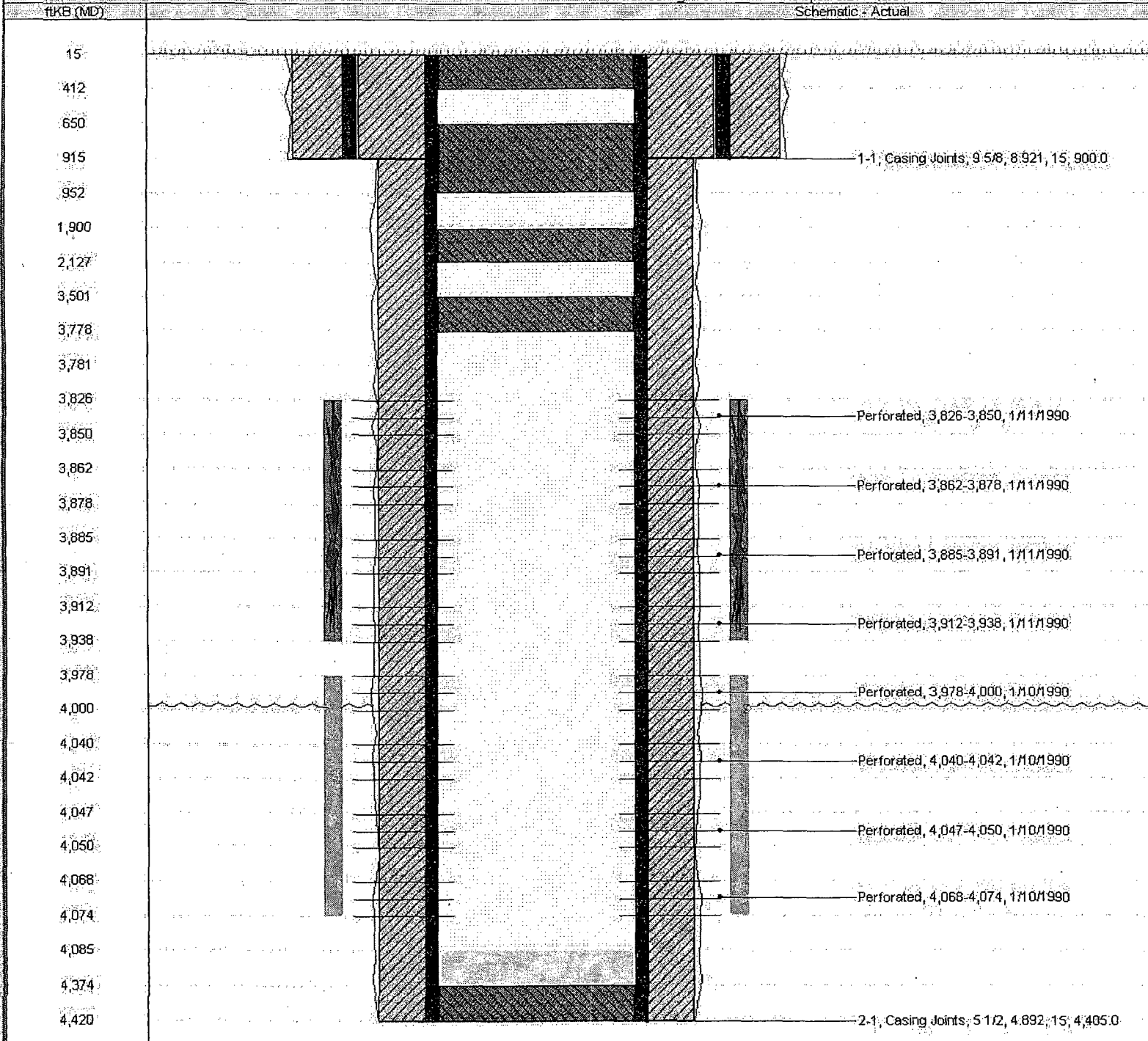
File Tools Help Well: MCA 385

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

Reports Schematic

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

Well Config: Vertical - Main Hole 3/16/2009 3:57:05 PM
Schematic - Actual



Affidavit of Publication

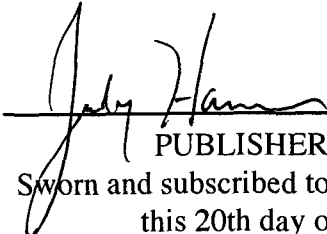
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

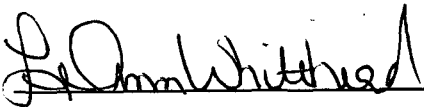
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
April 17, 2011
and ending with the issue dated
April 17, 2011


PUBLISHER

Sworn and subscribed to before me
this 20th day of
April, 2011


Notary Public

My commission expires
June 06, 2012
(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 APRIL 17, 2011

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

All wells are located in Township 17S, Range 32E, Lea County, NM, and requesting the injection interval to be the unitized Grayburg-San Andres formation interval of 3800' - 4300'.

MCA 399, Sec 27, 2130' FSL & 1330' FWL
MCA 404, Sec 27, 1310' FSL & 561' FWL
MCA 411, Sec 33, 10' FNL & 1869' FWL
MCA 414, Sec 27, 660' FSL & 2630' FEL
MCA 418, Sec 27, 1310' FSL & 660' FWL
MCA 419, Sec 27, 660' FSL & 145' FWL
MCA 420, Sec 33, 10' FNL & 525' FEL
MCA 462, Sec 26, 1830' FSL & 1330' FWL
MCA 474, Sec 27, 2100' FSL & 1180' FEL
MCA 475, Sec 27, 2580' FSL & 810' FEL
MCA 478, Sec 28, 760' FSL & 2630' FEL
MCA 483, Sec 28, 2130' FSL & 1310' FEL

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.
#26526.

49101647

00071083

JALYN FISKE
CONOCOPHILLIPS COMPANY (MIDLAND)
P.O. BOX 2200
BARTLESVILLE, OK 74005