



PMX 12/23/99
202

December 6, 1999

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

DEC - 8 1999

RE: Expansion of Pressure Maintenance Project
North Hobbs (Grayburg/San Andres) Unit
Hobbs; Grayburg - San Andres Pool
Well No. 432
Letter I, Section 30, T-18-S, R-38-E
Lea County, NM

Gentlemen:

Altura Energy LTD respectfully requests administrative approval for expansion of the subject pressure maintenance project by converting North Hobbs (G/SA) Unit Well No. 432 from production to water injection. Administrative Order No. R-6199 granted November 30, 1979, authorized Shell Western E&P Inc. (Altura's predecessor) to conduct the North Hobbs (G/SA) Unit pressure maintenance project within the Hobbs; Grayburg - San Andres Pool.

The following data is submitted in support of this request:

- Form C-108 with miscellaneous data attached
- Form C-102
- A map reflecting the location of the proposed injection well (No. 432). The map identifies all wells located within a two-mile radius of the proposed injector and has a one-half mile radius circle drawn around the proposed injection well which identifies the well's Area of Review.
- An injection well data sheet
- A tabulation of data on all wells of public record within the well's Area of Review
- Schematics of plugged wells that are within the well's Area of Review
- A list of Offset Operators and Surface Owners (these parties have been notified of this application by certified mail)



- An Affidavit of Publication and copy of the legal advertisement that was published in the county in which the well is located.

Your favorable consideration of our request will be appreciated. If you have any questions of a technical nature, please call David Nelson at (505) 397-8211. Otherwise, please call me at (281) 552-1158.

Very truly yours,

Mark Stephens

Mark Stephens
Business Analyst (SG)

CC: Oil Conservation Division
Hobbs District Office
P.O. Box 1980
Hobbs, NM 88241

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

Bureau of Land Management
Roswell District Office
2909 West Second Street
Roswell, NM 88201

Offset Operators (see attached list)

Surface Owners (see attached list)

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery X Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Altura Energy LTD
ADDRESS: P.O. Box 4294, Houston, TX 77210-4294
CONTACT PARTY: Mark Stephens, Rm. 338-B, WL2 PHONE: (281) 552-1158
- 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-6199 (11/30/79)
- 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.
- 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.
- 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.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Mark Stephens TITLE: Business Analyst (SG)
SIGNATURE: Mark Stephens DATE: 12/6/99
- * 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: Hearing October 3, 1979; Case No. 6653, Order No. R-6199

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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, 2040 South Pacheco, 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.

Attachment To Form C-108
Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit
Well No. 432
Letter I, Section 30, T-18-S, R-38-E
Lea County, New Mexico

III. Well Data

- B.(5) Next higher oil zone -- Grayburg @ +/- 3700'
Next lower oil zone -- Glorieta @ +/- 5300'

VII. Proposed Operation

1. Average Injection Rate 1500 BWPD
Maximum Injection Rate 4000 BWPD
2. Closed Injection System
3. Average Injection Pressure 500 PSIG
Maximum Injection Pressure 805 PSIG (approx.)
(will not exceed 0.2 psi/ft. to top perforation)
4. Source Water – San Andres Produced Water
(Champion Technologies, Inc. analysis attached)

IX. Stimulation Program

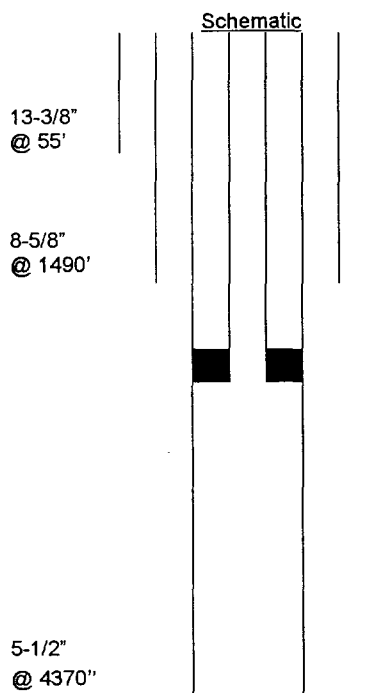
Acid treatment of unitized perforations will be performed during conversion work

- XI. Fresh Water Sample Analysis
(Laboratory Services, Inc. analysis attached – 3 ea.)

- XII. Altura Energy LTD affirms that available geologic and engineering data has been examined resulting in the finding of no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

INJECTION WELL DATA SHEET

Operator Altura Energy LTD.		Lease North Hobbs G/SA Unit			County Lea
Well No. 30-432	Footage Location 2260 FSL & 180 FEL	Section 30	Township 18-S	Range 38-E	Unit Letter I



Tubular Data

Surface Casing
 Size 13-3/8 Cemented with _____ sxs.
 TOC _____ Determined by _____
 Hole size _____

Intermediate Casing
 Size 8-5/8 Cemented with 370 sxs.
 TOC Surf Determined by Circ.
 Hole size _____

Long string Casing
 Size 5-1/2" Cemented with 350 sxs.
 TOC Surf Determined by Circ.
 Hole size _____

Total depth 4370

Injection interval
4000 feet to 4350 feet

Completion type Perforations

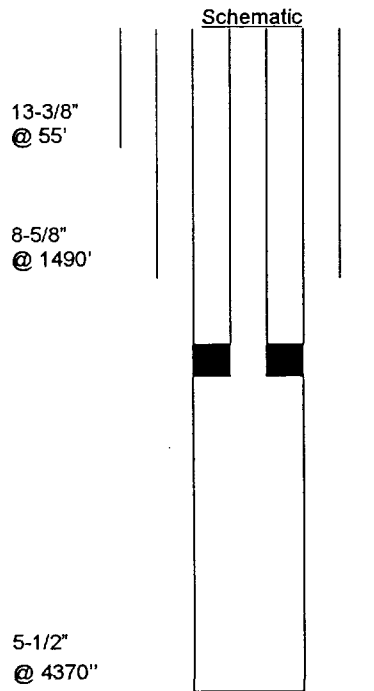
Tubing size 2-7/8" lined with Fiberglass Epoxy set in a
Giberson Uni VI packer at ±3950 feet
 (brand and model)

Other Data

- Name of the injection formation San Andres
- Name of field or Pool Hobbs (Grayburg/San Andres) Pool
- Is this a new well drilled for injection? Yes ☐ No ☒
 If no, for what purpose was the well originally drilled? San Andres producer
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
None
- Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Grayburg - 3700, Glorieta - 5300

INJECTION WELL DATA SHEET

Operator Altura Energy LTD.		Lease North Hobbs G/SA Unit			County Lea
Well No. 30-432	Footage Location 2260 FSL & 180 FEL	Section 30	Township 18-S	Range 38-E	Unit Letter I



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Surface Casing
 Size 13-3/8 Cemented with _____ sxs.
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Intermediate Casing
 Size 8-5/8 Cemented with 370 sxs.
 TOC Surf Determined by Circ.
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Long string Casing
 Size 5-1/2" Cemented with 350 sxs.
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Total depth 4370

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 (brand and model)

Other Data

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- Name of field or Pool Hobbs (Grayburg/San Andres) Pool
- Is this a new well drilled for injection? Yes ☐ No ☒
 If no, for what purpose was the well originally drilled? San Andres producer
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
None
- Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Grayburg - 3700, Glorieta - 5300

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-28957	Pool Code 31920	Pool Name HOBBS; GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 432
OGRID No. 157984	Operator Name ALURA ENERGY LTD.	Elevation 3648

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	18 S	38 E		2260	SOUTH	178	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 1									
37.81 ACRES LOT 2									
37.85 ACRES									
LOT 3									
37.87 ACRES LOT 4									
37.91 ACRES									

WELL #432
178'
2260'

SPC NVE NAD 27
Y=625551
X=554929

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Mark Stephens
Signature

Mark Stephens
Printed Name

Business Analyst (SG)
Title

December 6, 1999
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 20, 1999

Date Surveyed

Signature & Seal of Professional Surveyor

DMCC

3239 7-27-99

32-11-0590

Certified to No. RONALD L. EDISON 3239
CARYN HOSON 12641
MCDONALD 12185

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

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Fee Lease - 3 Copies

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1000 Rio Brazos Rd., Aztec, NM 87410

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Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 432
OGRID No. 157984	Operator Name ALTURA ENERGY LTD.	Elevation 3648

Surface Location

UL or lot No. 1	Section 30	Township 18 S	Range 38 E	Lot Idn	Feet from the 2260	North/South line SOUTH	Feet from the 178	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 1 37.81 ACRES			
LOT 2 37.85 ACRES			
LOT 3 37.87 ACRES		SPC NME NAD 27 Y=625551 X=554929	WELL #432 178'
LOT 4 37.91 ACRES			2260'

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Mark Stephens
Signature

Mark Stephens
Printed Name

Business Analyst (SG)
Title

December 6, 1999
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 20, 1999
Date Surveyed

DMCC
Signature of Professional Surveyor

3239
Professional Surveyor No.

99-11-0590
Date of Survey

3239
Professional Surveyor No.

12641
Professional Surveyor No.

12185
Professional Surveyor No.



P.O. BOX 2187
HOBBS, NEW MEXICO 88240

Saturation Index Calculations
Champion Technologies, Inc.
(Based on the Tomson-Oddo Model)

Telephone (505) 393-7726

Site Information

Company	Altura
Field	North Hobbs Unit
Point	IPD
Date	4/15/98

Water Analysis (mg/L)

Calcium	1,122
Magnesium	194
Barium	0
Strontium	0
Sodium*	3730
Bicarbonate Alkalinity	1,769
Sulfate	1,726
Chloride	6,000

* - Calculated Value

Appended Data

Dissolved CO2	228 mg/l.
Dissolved O2	N/A PPB
H2S	596 mg/l.
Iron	0.0 mg/l.
Specific Gravity	1.010 value
TDS	14551 mg/l.
Total Hardness	3600 mg/l.
Well head pH	N/A value

Physical Properties

Ionic Strength*	0.29
pH†	6.52
Temperature	86°F
Pressure	100 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

<i>Calculation Method</i>	<i>Value</i>
pH	6.52
<hr/>	
<i>Bicarbonate Alkalinity Correction(s)</i>	<i>Value</i>
None Used	---

SI & PTB Results

<i>Scale Type</i>	<i>SI</i>	<i>PTB</i>
Calcite (Calcium Carbonate)	0.48	310.4
Gypsum (Calcium Sulfate)	-0.45	N/A
Hemihydrate (Calcium Sulfate)	-0.32	N/A
Anhydrite (Calcium Sulfate)	-0.72	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A



P.O. BOX 2187
HOBBS, NEW MEXICO 88240

Ranged Data
Champion Technologies, Inc.

Telephone (505) 393-7726

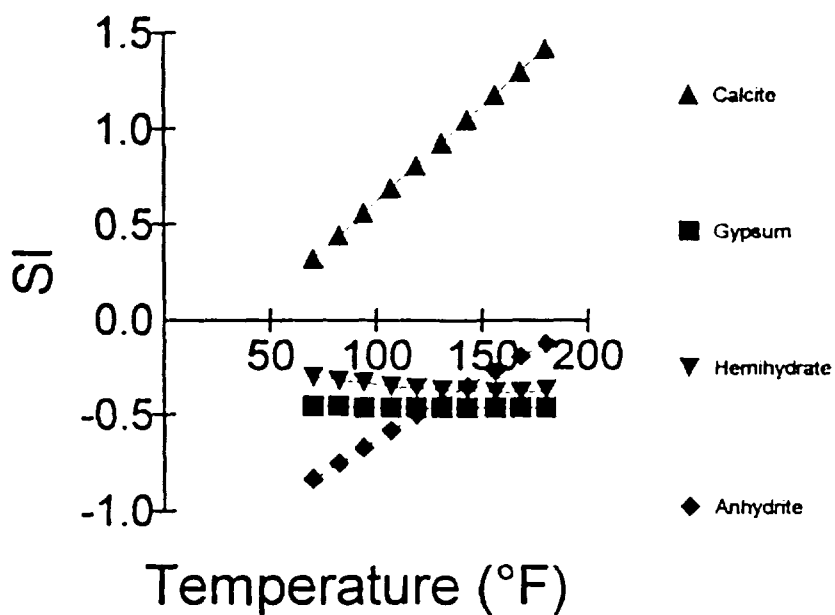
Site Information

Company	Altura
Field	North Hobbs Unit
Point	IPD
Date	4/15/98

SI Results

Temperature (°F)	Calcite	Gypsum	Hemihydrate	Anhydrite
70	0.32	-0.45	-0.30	-0.83
82	0.44	-0.45	-0.32	-0.75
94	0.56	-0.46	-0.33	-0.67
107	0.69	-0.46	-0.35	-0.58
119	0.81	-0.46	-0.36	-0.50
131	0.93	-0.46	-0.37	-0.43
143	1.05	-0.46	-0.37	-0.35
156	1.18	-0.46	-0.38	-0.27
168	1.30	-0.46	-0.38	-0.19
180	1.42	-0.46	-0.37	-0.12

SI



**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

Water Analysis

COMPANY Altura Energy Ltd,

SAMPLE North Hobbs Un. CTB 185-38E-SEC29

SAMPLED BY David Nelson SW 1/4, NW 1/4, NE 1/4, NW 1/4

DATE TAKEN 10/12/99

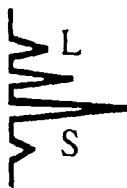
REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	12	
Bicarbonate alkalinity PPM	212	
pH at Lab	7.48	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	200	
Total Hardness as CaCO ₃	344	
Chlorides as Cl	155	
Sulfate as SO ₄	145	
Iron as Fe	0.1	
Potassium	0.08	
Hydrogen Sulfide	0	
Rw	7	24 C
Total Dissolved Solids	1,045	
Calcium as Ca	144	
Nitrate	14	

Results reported as Parts per Million unless stated

Langelier Saturation Index + 0.03

Analysis by: Rolland Perry
Date: 10/19/99



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

Water Analysis

COMPANY Altura Energy Ltd,
SAMPLE Basin Surveys 185-38E-SEC 29
SAMPLED BY David Nelson SW'14, SW'14, SE'14
DATE TAKEN 10/12/99
REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	256	
pH at Lab	7.44	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	232	
Total Hardness as CaCO3	400	
Chlorides as Cl	127	
Sulfate as SO4	175	
Iron as Fe	0.01	
Potassium	2	
Hydrogen Sulfide	0	
Rw	8	23 C
Total Dissolved Solids	1,252	
Calcium as Ca	168	
Nitrate	7	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.01

Analysis by: Rolland Perry
Date: 10/19/99



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

Water Analysis

COMPANY Altura Energy Ltd,

SAMPLE 18S-38E-Sec30 NE1/4, SW1/4, SW1/4

SAMPLED BY David Nelson

DATE TAKEN 10/12/99

REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	204	
pH at Lab	7.52	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	125	
Total Hardness as CaCO ₃	216	
Chlorides as Cl	64	
Sulfate as SO ₄	55	
Iron as Fe	0.01	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	9	23 °C
Total Dissolved Solids	595	
Calcium as Ca	91	
Nitrate	1.2	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.18

Analysis by: Rolland Perry
Date: 10/19/99

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Exxon Company, U.S.A
Attn: Joint Interest
Operations
P.O. Box 4707
Houston, TX 77210-4707

4a. Article Number

P 447 842 834

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Getty Oil Company
P.O. Box 797035
Dallas, TX 75379-7035

4a. Article Number

P 436 313 766

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Charles E. Seed
Houston Ranch
Lovington Hwy.
Hobbs, NM 88240

4a. Article Number

P 436 313 767

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Saga Petroleum LLC
415 W. Wall, Suite 835
Midland, TX 79701

4a. Article Number

P 436 313 768

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Marcum Drilling Company
P.O. Box 3699
Midland, TX 79707

4a. Article Number

P 436 313 770

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Chevron Production Co.
NOJV Mgr.
P.O. Box 1635
Houston, TX 77251

4a. Article Number

P 436 313 771

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Conoco Inc.
10 Desta Dr. West
Midland TX 79705

4a. Article Number

P 436 313 772

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery**5. Received By: (Print Name)****6. Signature: (Addressee or Agent)**

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Rice Operating Company
122 West Taylor
Hobbs, NM 88240

4a. Article Number

P 436 313 773

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery**5. Received By: (Print Name)****6. Signature: (Addressee or Agent)**

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

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SENDER:

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- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Grimes Land Company
P.O. Box 5102
Hobbs, NM 88241

4a. Article Number

P 436 313 769

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery**5. Received By: (Print Name)****6. Signature: (Addressee or Agent)**

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

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

of 2
_____ weeks.

Beginning with the issue dated

September 11 1999
and ending with the issue dated

September 12 1999

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 22nd day of

October 1999

Joel Hansen

Notary Public.

My Commission expires
October 18, 2000
(Seal)

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

LEGAL NOTICE

SEPTEMBER 12, 1999

Notice is hereby given of the
application of Altura Energy
LTD, Attn: Mark Stephens,
P.O. Box 4294, Rm. 338-B,
Houston, TX 77210-4294
(281/552-1158), to the Oil
Conservation Division, New
Mexico Energy, Minerals and
Natural Resources Depart-
ment, for approval of the fol-
lowing injection wells for the
purpose of secondary recov-
ery:

Pool Name: Hobbs; Grayburg
-San Andres
Lease/Unit Name: North
Hobbs G/SA Unit
Well No. 221
Loc.: 2310' FNL & 2310' FWL,
Unit Letter F, Sec. 24, T-18-S,
R-37-E, Lea Co., NM
Well No. 342
Loc.: 145' FSL & 1435' FEL,
Unit Letter O, Sec. 24, T-18-
S, R-37-E, Lea Co., NM
Well No. 432
Loc.: 2480' FSL & 1280' FEL,
Unit Letter I, Sec. 24, T-18-S,
R-37-E, Lea Co., NM
Well No. 141
Loc.: 330' FSL & 330' FWL,
Unit Letter M, Sec. 29, T-18-
S, R-38-E, Lea Co., NM
Well No. 241
Loc.: 330' FSL & 2310' FWL,
Unit Letter N, Sec. 29, T-18-
S, R-38-E, Lea Co., NM
Well No. 112
Loc.: 200' FNL & 1310' FWL,
Unit Letter D, Sec. 30, T-18-
S, R-38-E, Lea Co., NM
Well No. 233
Loc.: 2455' FSL & 1480' FWL,
Unit Letter K, Sec. 30, T-18-S,
R-38-E, Lea Co., NM
Well No. 313
Loc.: 405' FNL & 2272' FEL,
Unit Letter B, Sec. 30, T-18-S,
R-38-E, Lea Co., NM
Well No. 332
Loc.: 2470' FSL & 1600' FEL,
Unit Letter J, Sec. 30, T-18-S,
R-38-E, Lea Co., NM
Well No. 412
Loc.: 760' FNL & 550' FEL,
Unit Letter A, Sec. 30, T-18-S,
R-38-E, Lea Co., NM
Well No. 432
Loc.: 2260' FSL & 180' FEL,
Unit Letter I, Sec. 30, T-18-S,
R-38-E, Lea Co., NM

The injection formation is the
Hobbs; Grayburg-San Andres
Pool between the intervals of
+/-3700' and +/-5300' below
the surface of the ground. Ex-
pected maximum infection
rate is 4000 BWPD and the
expected maximum injection
pressure is approximately 805
psi. Interested parties must
file objections or requests for
hearing with the Oil Conser-
vation Division, 2040, S. Pa-
checo, Santa Fe, NM 87505
within fifteen (15) days.
#16873

02101173000 01535865
Altura Energy LTD
P. O. Box 4294
Houston, TX 77210-4294

**WELL SCHEMATIC:
EXXON BOWERS #2**

WELL PLUGGED:
5/12/30

Hole cemented with 40 sxs
From 66' to surface.

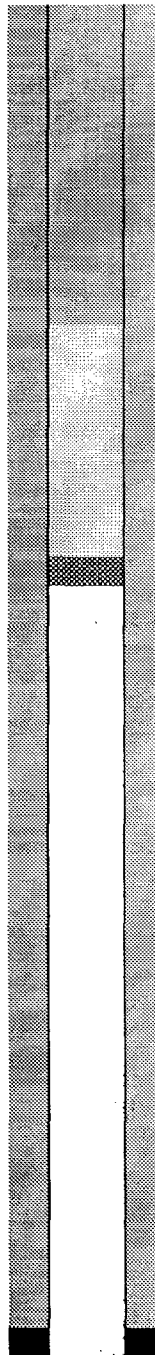
Hole mudded from 106'
To 66'.

PBTD: 106'

Plugged back at 106' with ?

12.5"
25 sxs
TOC: SURF(C)

TD: 242'



**WELL SCHEMATIC:
EXXON BOWERS A FED #6**

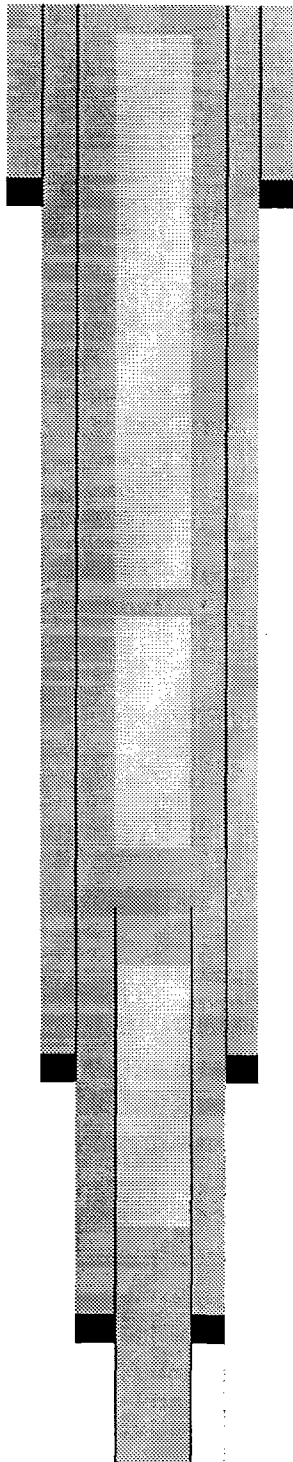
WELL PLUGGED:
5/10/71

12 ½"
217'
200 SX
TOC: NA

9 5/8"
2750'
650 SX
TOC: NA

7"
3147'
120 SX
TOC: 2470 TS

TD: 3190'



Spotted 10 sx cmt plug from
35' to top.

Circulated well bore with 9#
Mud.

Spotted 20 sx cmt plug from
1500' to 1400'.

7" csg shot loose at 2435'.
Spotted 50 sx cmt plug from
2485' to 2340'.

Spotted 50 sx cmt plug from
3190' to 2950'.

**WELL SCHEMATIC:
EXXON BOWERS A #12**

WELL PLUGGED
11/21/80

8 5/8"
222'
100 sxs.
TOC:N.A.

8 5/8 and 5 51/2 csg cut off
7' below GL.. 1/2 " plate
welded on top.
10' cmt plug at surface.

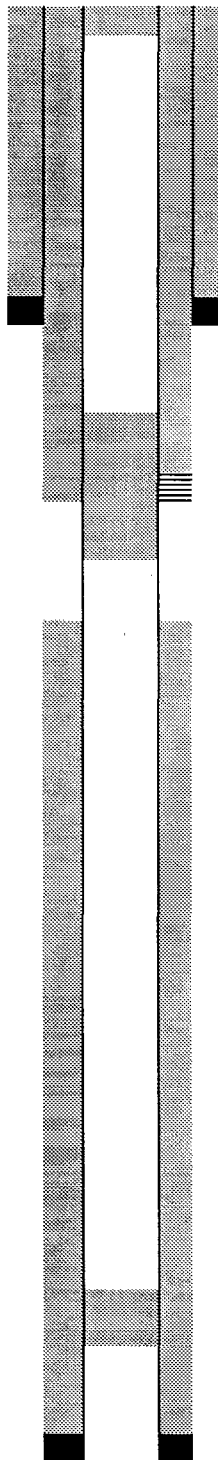
Cmt. Ret. set at 350'

Sqzd. Perfs at 390' with 100
sxs. cmt from 500' to 350'.
Circ. to surface.

5 5/8"
3132'
575 sxs.
TOC: 880' TS

PBTD: 3088'

10 sxs. Cmt plug 3088-2988



**WELL SCHEMATIC: EXXON
BOWERS A FED. #13**

WELL PLUGGED:
5/10/71

8 5/8"
283'
125 sxs
TOC: SURF (C)

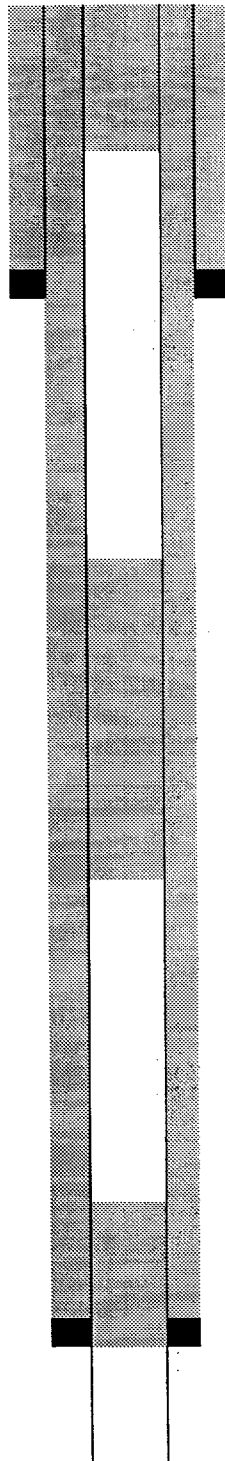
10 sxs cmt plug set from
50' to surf

20 sxs cmt plug set from
1500' to 1400'

5 1/2"
3150'
1350 sxs
TOC: SURF (C)

50 sxs cmt plug set from
3189' to 2800'

TD: 3189'



**WELL SCHEMATIC:
EXXON BOWERS A FED #14**

WELL PLUGGED
12/21/70

8 5/8"
496'
400 SXS
TOC: CIRC

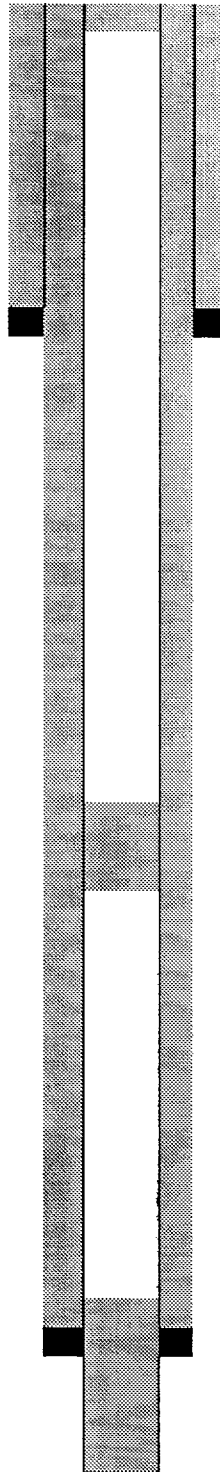
Spotted 10 sxs
from 0' – 25'.

5 1/2"
3120'
1350 SXS
TOC: CIRC

Spotted 25 sxs cmt plug from
1400' – 1550'.

TD: 3207

Spotted 25 sxs cmt plug
from 3000' – 3207'.



**WELL SCHEMATIC:
EXXON BOWERS A FED #16**

WELL PLUGGED:
11/27/70

Spotted a 10 sxs cmt plug at
surface with marker.

8 5/8 "
262'
150 SXS
TOC: CIRC

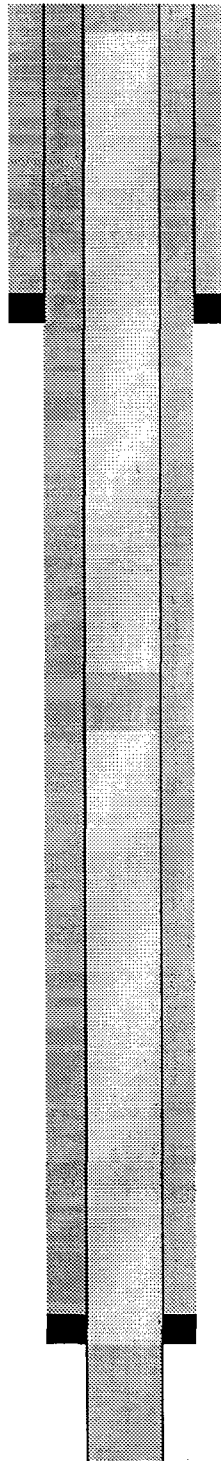
Hole loaded with mud laden
fluids.

5 1/2 "
3151'
1000 SXS
TOC: CIRC

Spotted a 20 sxs cmt plug
from 1400' to 1550'

TD: 3225'

Spotted a 30 sxs cmt plug from
3050' to 3225'



**WELL SCHEMATIC:
EXXON BOWERS A FED #1**

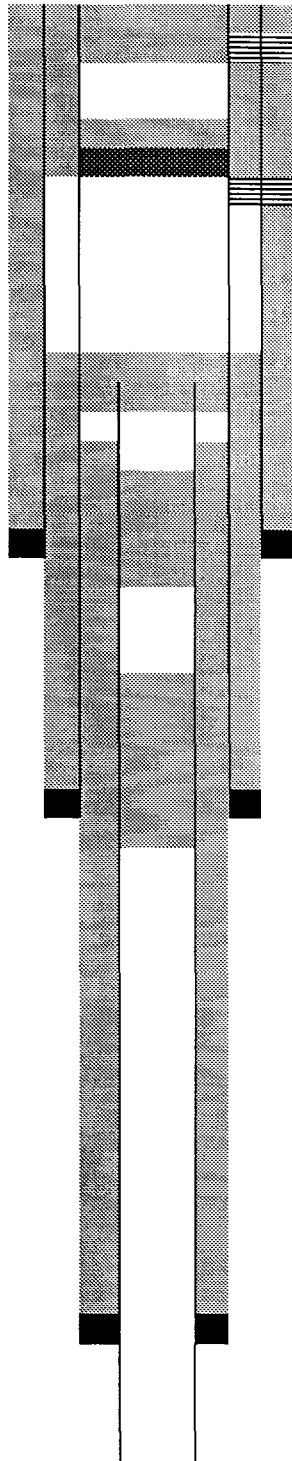
WELL PLUGGED:
11/15/89

9 5/8"
2750'
620 SX
TOC: NA

7"
3962'
528 SX
TOC: NA

4 1/2"
6000'
275 SX
TOC: 2200 TS

TD: 6000'



Perf'd 7" & 9 5/8" csg at 280'
& sqzd w/100 sx.

Dropped 54' cmt on top of ret

Perf'd 7" and 9 5/8" csg at
1350'. Set cmt ret at 1304'.
Sqz'd w/100 sx thru perms.

Spotted 25 sx cmt plug from
1911' to 2058'.
Cut 4 1/2" csg at 2000' and
Pull out of hole.
Spotted 20 sx cmt plug from
2470' to 2800'.

Spotted 40 sx cmt plug from
3430' to 4100'.

**WELL SCHEMATIC:
EXXON BOWERS A FED #15**

WELL PLUGGED:
11/27/70

8 5/8"
249'
150 SX
TOC: CIRC

Spotted 10 sx cmt plug at
Surface.

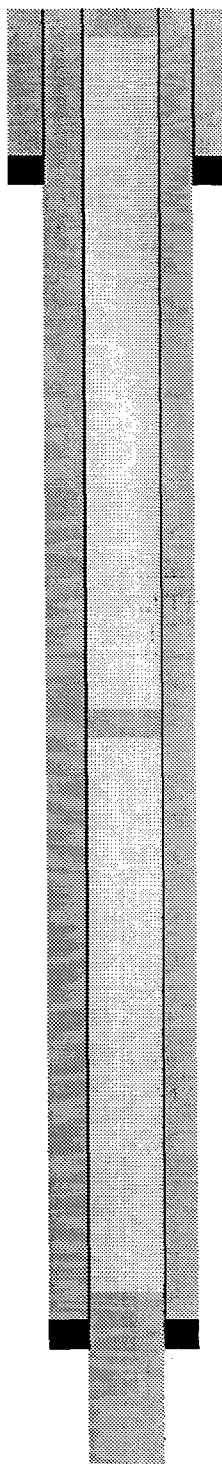
Hole was loaded with mud
Laden fluid.

5 1/2"
3158'
1250 SX
TOC: CIRC

Spotted 20 sx cmt plug from
1400' to 1500'.

TD: 3218'

Spotted 25 sx cmt plug at
3218'.



**WELL SCHEMATIC:
EXXON BOWERS A FED #17**

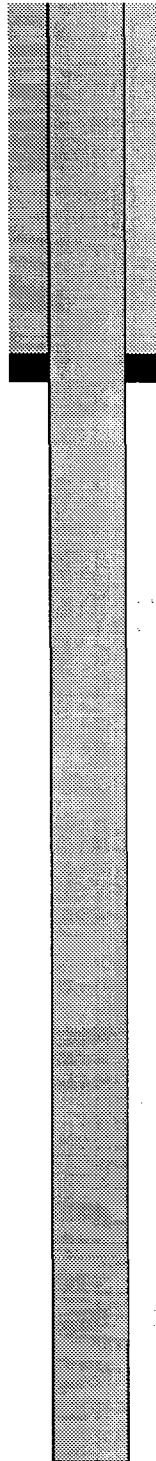
WELL PLUGGED:
11/30/66

7"
12'
6 SX
TOC: CIRC

12' of 7" csg left in hole.

Filled hole with approximately
.75 yards of 5 sx Redi-Mix.

TD: 50'



**WELL SCHEMATIC:
EXXON BOWERS A FED #30**

WELL PLUGGED:
8/4/90

8 5/8"
3836'
500 SX
TOC: 2300' TS

Perf'd 8 5/8" at 450'. Pumped
211 sx down 8 5/8" thru perfs
At 450' and circulate.

Perf'd 8 5/8" csg at 1485'.
Cut off 4 1/2 csg at 1500'.
Spotted 77 sx cmt plug from
1500' to 1385'.

Spotted 15 sx cmt plug from
2711' to 2528'.

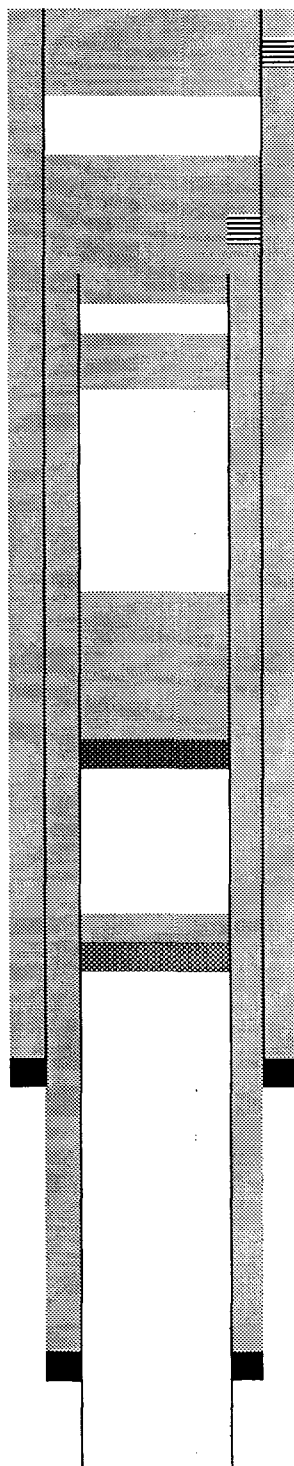
Spotted 70 sx cmt plug from
4632' to 3364'.

Cmt. ret. at 4632' – sqz with
25 sx.

CIBP at 5300' w/ 35' cmt cap.

4 1/2"
5988'
550 SX
TOC: 2800' TS

TD: 6000'



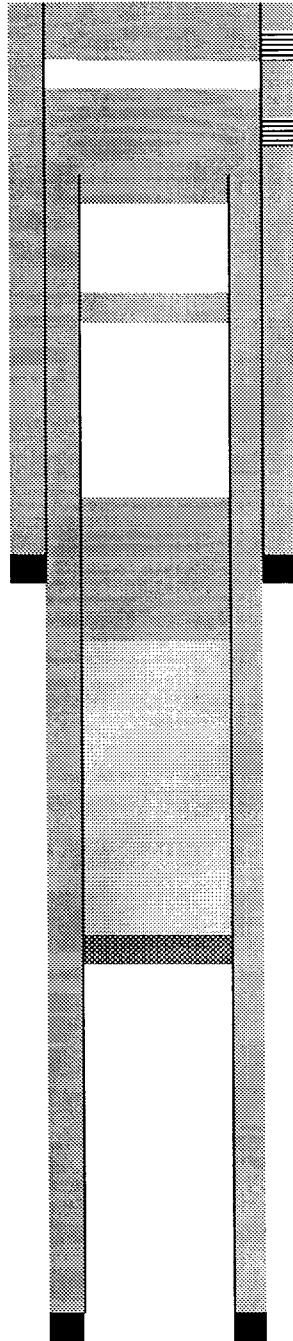
**WELL SCHEMATIC:
EXXON BOWERS A FED #31**

WELL PLUGGED:
8/30/90

8 5/8"
3836'
500 SX
TOC:1858' CALC

5 1/2"
7038'
650 SX
TOC:3125' CALC

TD: 7050'



Perf'd @ 450'. Pump 211 sx
Down 8 5/8" csg to surf.
Spot 77 sx from 1490-1200'
Perf'd at 1485'.
Cut off 5 1/2" csg at 1500'.

Spotted 25 sx cmt plug at
2716'.

Spot 50 sx cmt from 4100' to
3600'.

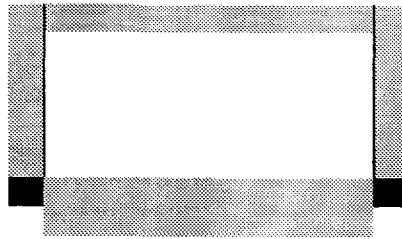
Displaced hole with salt gel
Mud.

Tagged CIBP w/35' cmt cap
At 5710'.

WELL SCHEMATIC - Exxon Bowers A Federal #32

Well plugged 9/14/72

13-3/8"
401'
600 sxs
TOC: Circ.



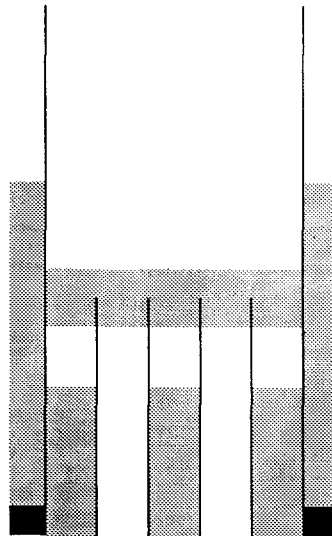
20' cmt. Plug at surface.

100' cmt plug at 13-3/8 csg shoe



100 ' cmt plug at 1400'

9-5/8" TOC: 2250'



9-5/8 casing cut off at 1800'

Both 3-1/2" strings cut off at 2700'
and capped with 100' of cmt.

Cmt top inside 9-5/8" at 2900'

9-5/8"
3850'
550 sxs

100' cmt plug at 4050'

100' cmt plug at 4050'

100' cmt plug at 5800'

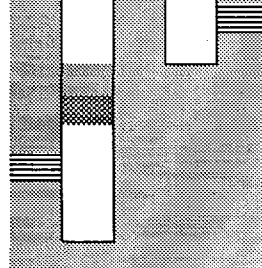
Plug w/ 100' cmt at 5694'

Plug w/ 100' cmt at 6200'

Perfs: 5825-5964'

Perfs: 6974-82'

TD: 7075'



**WELL SCHEMATIC:
EXXON BOWERS A FED #33**

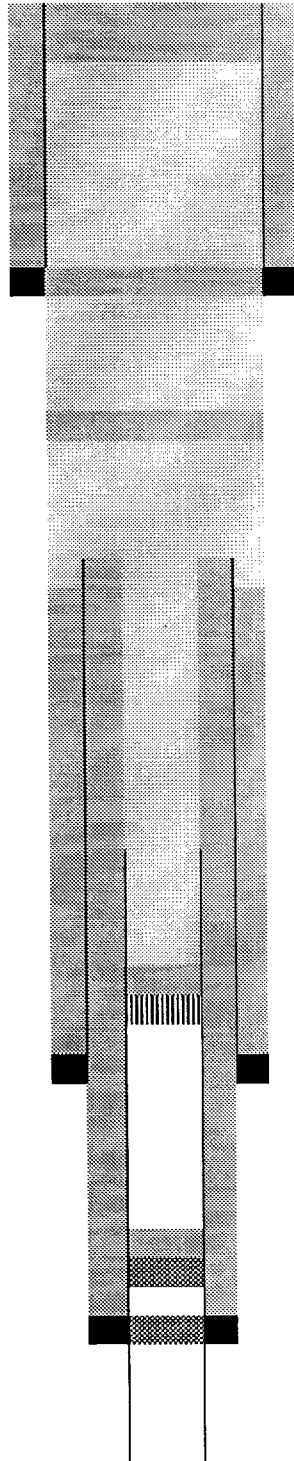
WELL PLUGGED:
10/3/72

13 3/8"
416'
400 sxs.
TOC: Circ.

9 5/8"
3836'
350 sxs
TCO: 2555' T.S.

CIBP at 3970'

7"
5988'
550 sxs
TOC: 2900' T.S.
TD: 6000'



Spot 20' cmt plug at surf

Spot 100' cmt plug at 416'

Run tbg to 1400' & spot 100'
cmt plug

Cut & pull 9 5/8" csg from
1889'

Cut & pull 7" csg from 2560'

Spot 100' cmt on top of CIBP

Set CIBP at 5800' and
Capped with cmt.

Set CIBP at 5900'.

**WELL SCHEMATIC:
EXXON BOWERS A FED #9**

WELL PLUGGED:
12/3/70

9 5/8"
2736'
650 SX
TOC: SURF (C)

Spotted 10 sx cmt plug from
0' to 25'.

Hole was loaded with mud
Laden fluids.

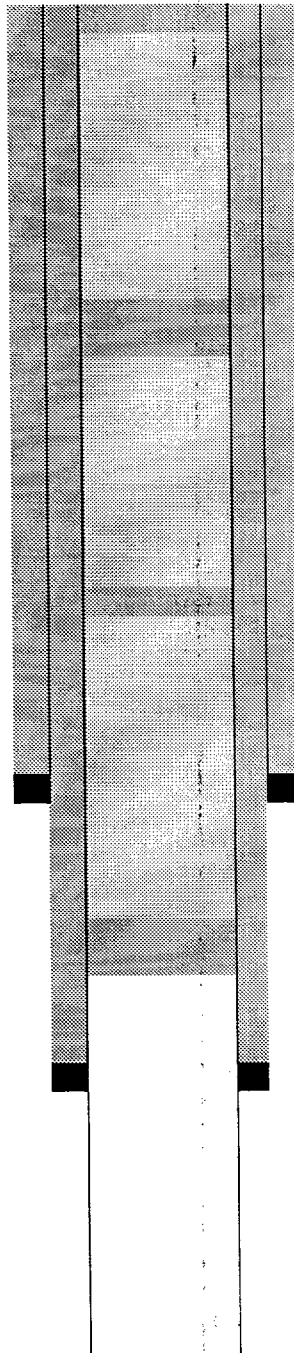
Spotted 20 sx cmt plug from
1400' to 1550'.

Spotted 40 sx cmt plug from
2300' to 2400'.

7"
3970'
300 SX
TOC: 2000(C)

Spotted 50 sx cmt plug from
3000' to 3250'.

TD: 4259'



**WELL SCHEMATIC:
EXXON BOWERS AB FED #1**

WELL PLUGGED:
11/26/48

8 5/8"
260'
150 SX
TOC: CIRC

Spotted 20 sx cmt plug from
160' to surface.

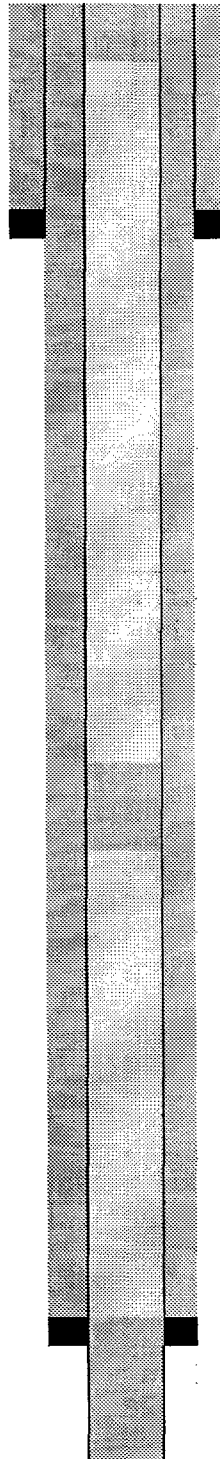
All intervals between plugs
Was filled with mud laden
Fluid.

5 1/2"
3179'
1050 SX
TOC: CIRC

Spotted 40 sx cmt plug from
1800' to 1480'.

TD: 3238'

Spotted 15 sx cmt plug from
3238' to 3136'.



**WELL SCHEMATIC:
EXXON BOWERS A FED #10**

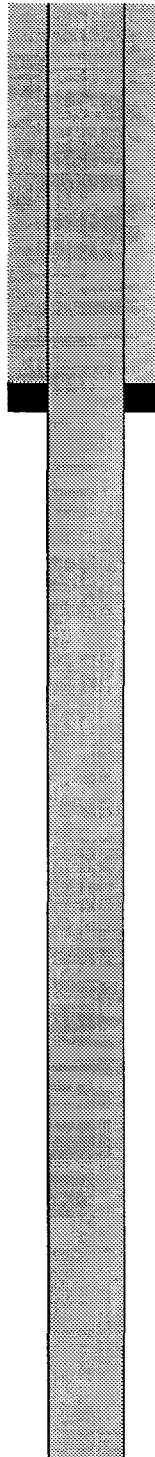
WELL PLUGGED:
8/19/98

7"
10'
3 SX
TOC: NA

Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 cu.
Yds. of 5 sx Redi-Mix.

10' to 38' – open hole.

TD: 38'



**WELL SCHEMATIC:
EXXON BOWERS A FED #11**

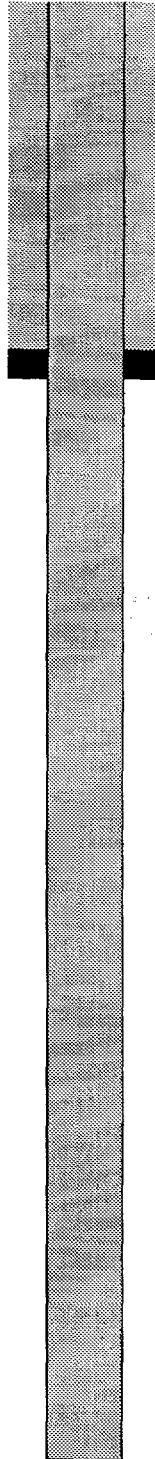
WELL PLUGGED:
8/19/98

6 5/8"
10'
3 SX
TOC: NA

Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

10' to 38' – open hole.

TD: 38'



**WELL SCHEMATIC:
EXXON BOWERS A #12**

WELL PLUGGED
11/21/80

8 5/8"
222'
100 sxs.
TOC:N.A.

8 5/8 and 5 5/2 csg cut off
7' below GL.. 1/2 " plate
welded on top.
10' cmt plug at surface.

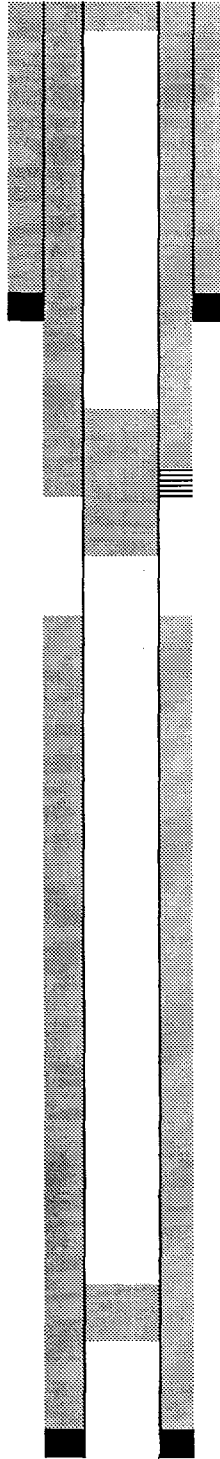
Cmt. Ret. set at 350'

Sqzd. Perfs at 390' with 100
sxs. cmt from 500' to 350'.
Circ. to surface.

5 5/8"
3132'
575 sxs.
TOC: 880' TS

PBTD: 3088'

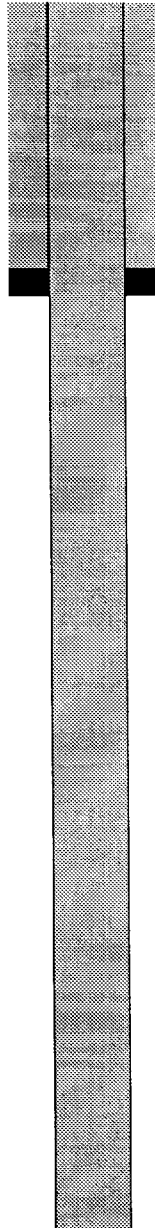
10 sxs. Cmt plug 3088-2988



**WELL SCHEMATIC:
ARC IND BOWERS A FED #2**

WELL PLUGGED:
8/19/98

6 5/8"
10'
3 SX
TOC: NA



Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

10' to 38' – open hole.

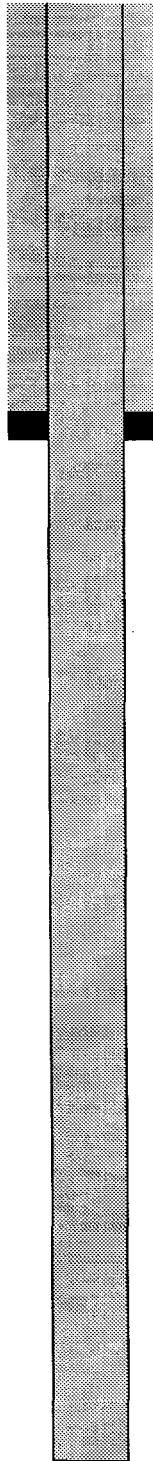
TD: 38'

**WELL SCHEMATIC:
ARC IND BOWERS A FED #3**

WELL PLUGGED:
8/19/98

7"
10'
3 SX
TOC: NA

Csg was pulled out of hole.
Well bore was filled with
Approximately .75 yards of
5 sx Redi-Mix.

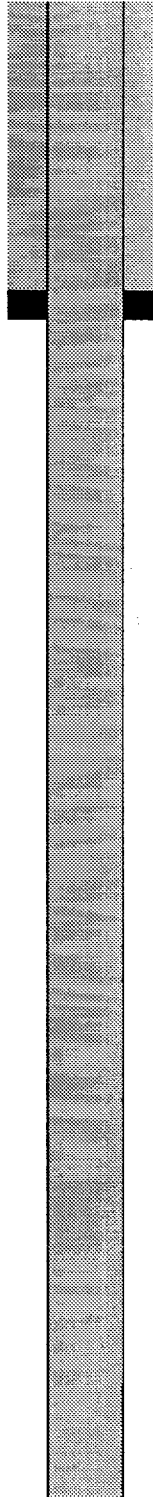


TD: 38'

**WELL SCHEMATIC:
ARC IND. BOWERS A FED #13**

WELL PLUGGED:
8/19/98

5 ½"
10'
3 SX
TOC: NA



Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

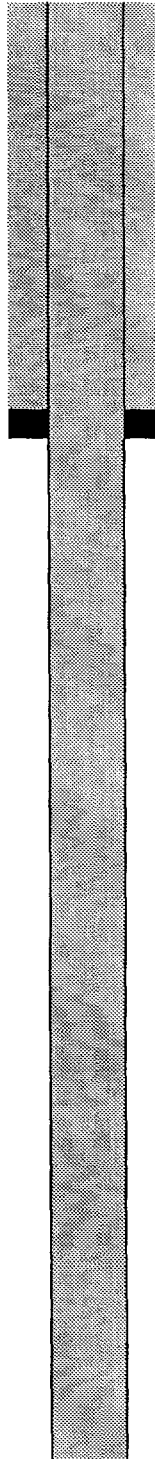
TD: 45'

**WELL SCHEMATIC:
EXXON BOWERS A FED #4**

WELL PLUGGED:
8/19/98

6 5/8"
10'
3 SX
TOC: NA

Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.



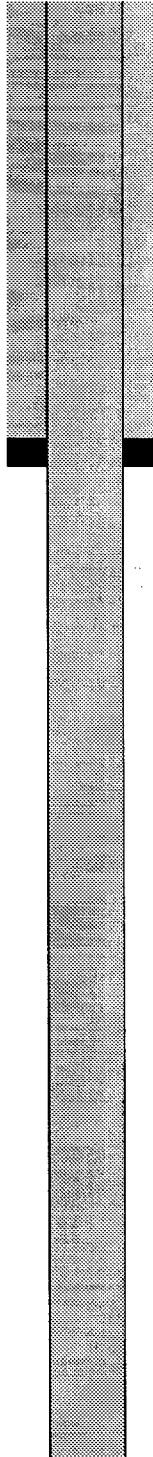
TD: 38'

**WELL SCHEMATIC:
EXXON BOWERS A FED #5**

WELL PLUGGED:
8/19/98

6 5/8"
10'
3 SX
TOC: NA

Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

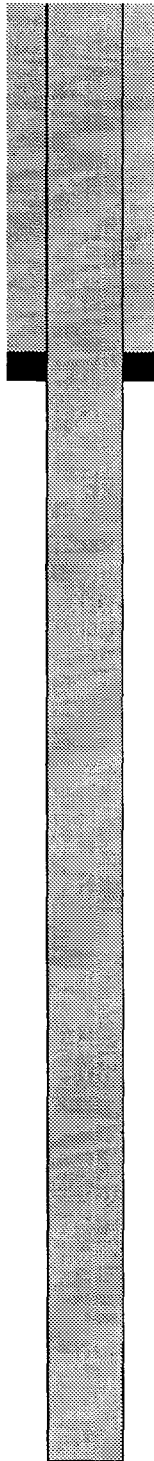


TD: 38'

**WELL SCHEMATIC:
ARC IND BOWERS A FED #6**

WELL PLUGGED:
8/19/98

6 ¾"
10'
3 SX
TOC: NA

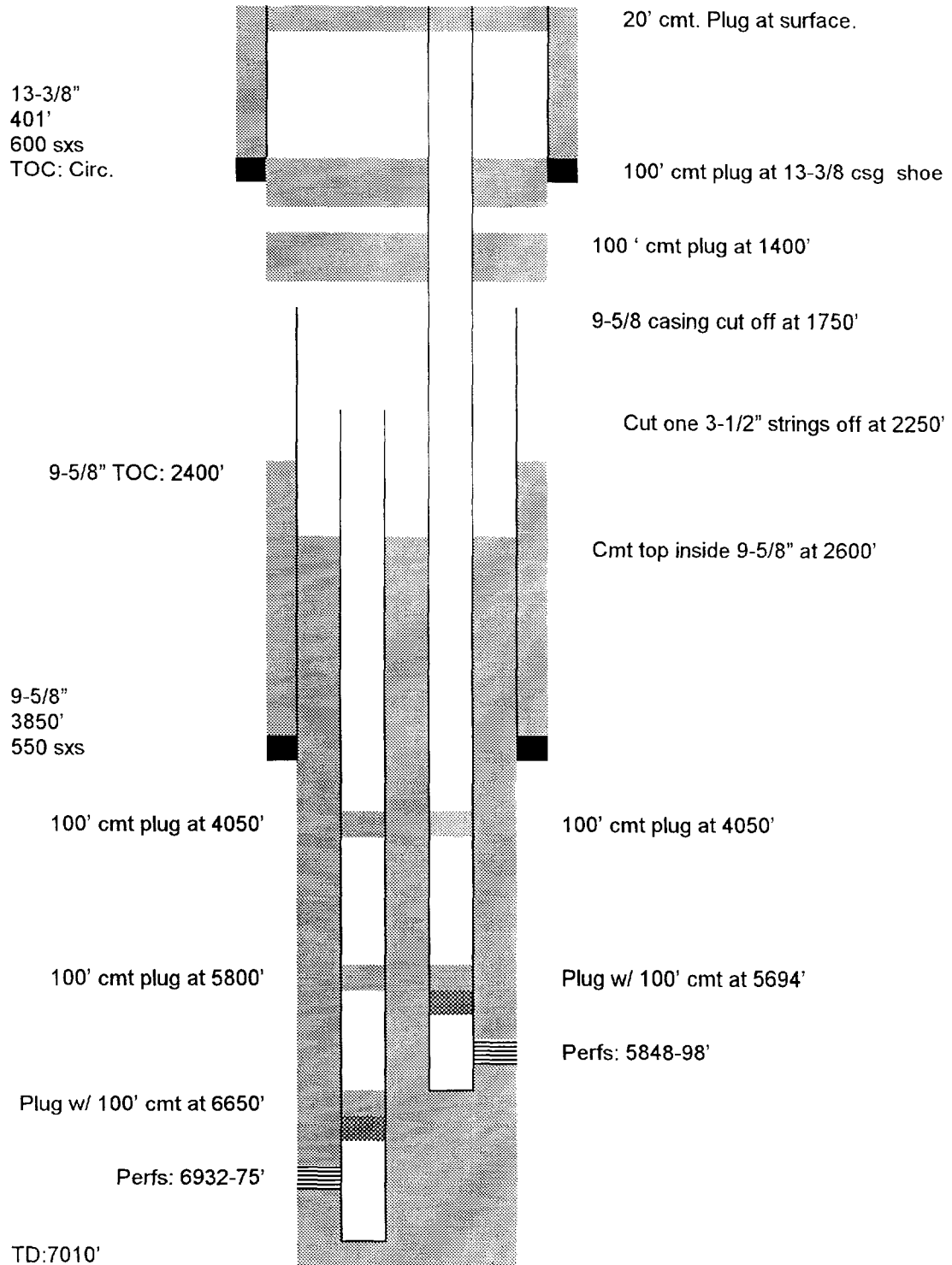


Csg was pulled and well was
Filled with approximately
.75 yards of 5 sx Redi-Mix.

TD: 45'

WELL SCHEMATIC - Exxon Bowers A Federal #34

Well plugged 9/26/72



**WELL SCHEMATIC:
GETTY HD MCKINLEY #3**

WELL PLUGGED:
8/26/75

Laid 10 sx cmt plug in top.

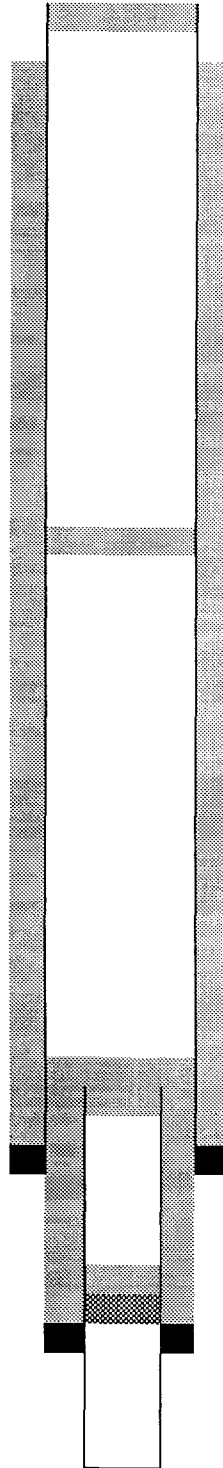
9 5/8"
2755'
600 SX
TOP: 337' CALC

Laid 37 sx cmt plug from
1575' to 1475'.

Ran 2 3/8" tbg to 3000'.
Circulated hole with 123 bbls.
Brine water w/23 sx salt gel.
Pulled tbg.
Shot csg at 2547'. Pulled and
Laid down 84 joints(2555') 7"
Csg. Ran tbg to 2616' and
Laid 28sx cmt plug from
2616' to 2516'.

7"
3166'
100 SX
TOC: 2595' CALC
TD: 3199'

Set Titan CIBP at 3095'.
Dumped 7 sx cmt on top of
CIBP.

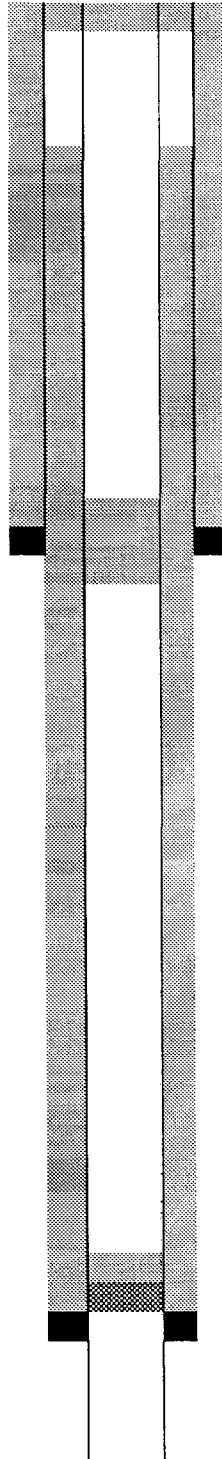


**WELL SCHEMATIC:
GETTY HD MCKINLEY #6**

WELL PLUGGED:
8/26/75

8 5/8"
1474'
400 SX
TOC: CIRC

Laid 10 sx cmt plug in top.



Laid 20 sx cmt plug from
1542' to 1374'.

5 1/2"
3178'
200 SX
TOC: 498 (C)

TD:3200'

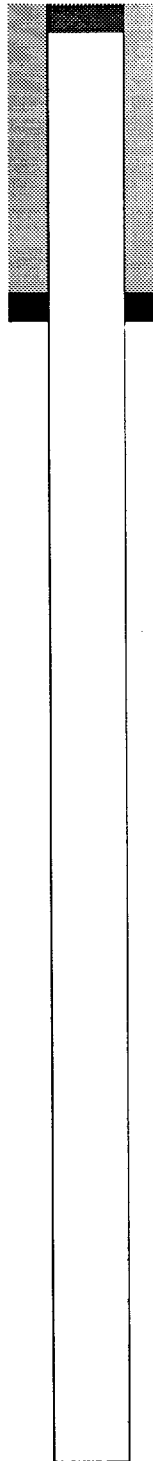
Set CIBP at 3100'. Dumped
5 sx cmt on top of CIBP.

**WELL SCHEMATIC:
AMERADA MCKINLEY #10**

WELL PLUGGED:
8/14/82

5 1/2"
10'
1 yd. Redi-Mix

The pump was pulled from
The well and steel plates
Were welded on top of the
Well.



TD: 37'

**WELL SCHEMATIC:
CONOCO STATE A #5**

WELL PLUGGED:
1/12/71

10 3/4"
272'
200 SX
TOC: SURF (C)

Spotted a 10 sx cmt plug
At surface.

7 5/8"
999'
425SX
TOC: SURF (C)

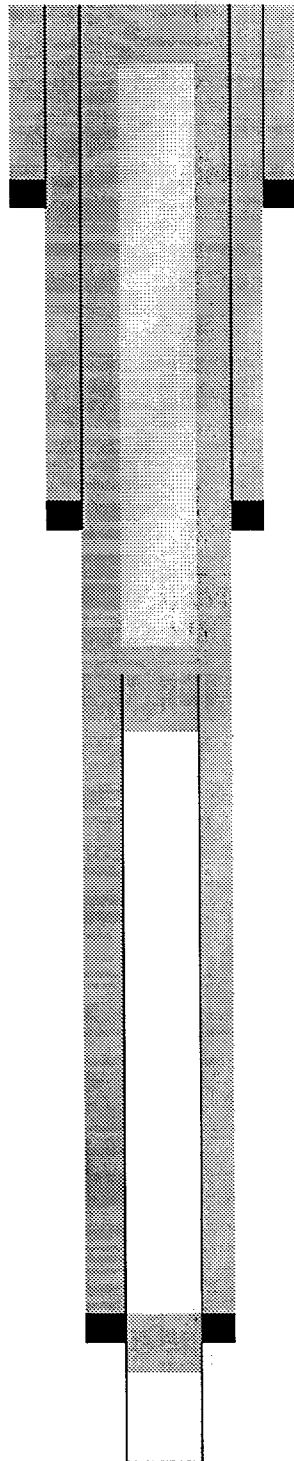
Filled well bore with 10# mud

5 1/2"
3206
450 SX
TOC: NA

Cut 5 1/2" csg at 1570' and
Pulled out of hole. Set a 55
Sx cmt plug in and out of
5 1/2" stub.

PBTD:3168'

Spotted 40 sx cmt plug over
Perfs from 3188' to 3168'.



**WELL SCHEMATIC:
NE-O-TEX HOBBS STATE #5**

WELL PLUGGED:
5/11/73

9 5/8"
364'
200 SX
TOC: SURF

Spotted 10' cmt plug at surf.

7"
3826'
200 SX
TOC: 2250'

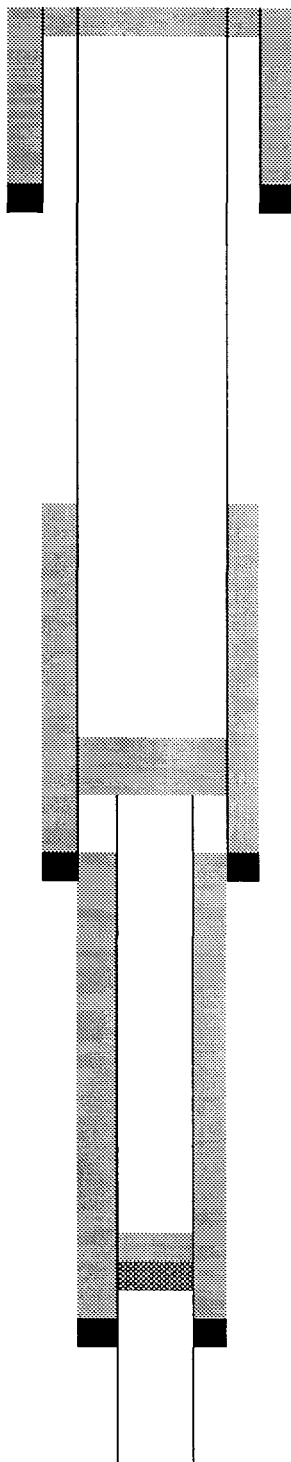
Shot and pulled csg at 3744'.
Pumped 255 sx cmt plug
From 3744' to 3644'.

4 1/2"
5986'
120 SX
TOC: 3800' (C)

Set 4 1/2" CIBP at 5757' and
Capped with 35' cmt. Est.
TOC is 5722'.

PBTD: 5959'

TD: 5986'



LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit
Well No. 432
Letter I, Section 30, T-18-S, R-38-E
Lea County, New Mexico

Offset Operators

Altura Energy LTD
P.O. Box 4294
Houston, TX 77210-4294

Exxon Company, U.S.A.
Attn: Joint Interest Operations
P.O. Box 4707
Houston, TX 77210-4707

Getty Oil Company
P.O. Box 797035
Dallas, TX 75379-7035

Charles E. Seed
Houston Ranch
Lovington Hwy.
Hobbs, NM 88240

Saga Petroleum LLC
415 W. Wall, Suite 835
Midland, TX 79701

Marcum Drilling Company
P.O. Box 3699
Midland, TX 79707

Chevron Production Co.
NOJV Mgr.
P.O. Box 1635
Houston, TX 77251

Conoco Inc.
10 Desta Dr. West
Midland, TX 79705

Rice Operating Company
122 West Taylor
Hobbs, NM 88240

Surface Owners

Grimes Land Co.
P.O. Box 5102
Hobbs, NM 88241

Active wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	Oper	API No.	Sec	T	R	Un Ltr	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
29111	Altura	30-025-23919	29	-18S	-38E	D	12/01/1971	Prod	4287	4168-4250	(OH)		13.75	11	21	150	Circ
													8.625	7.875	310	300	2440 CBL
													5.5				
29121	Altura	30-025-07449	29	-18S	-38E	E	3/1/47	Prod	4275	3924	4275	4070-85	9.625	12.25	2739	650	890
												4110-20	7	8.75	3104	100	2640 CBL
												4130-50	4.5 Lnr	6.25	2900-4201	100	2900
29122	Altura	30-025-28953	29	-18S	-38E	E	02/06/1985	Inj	4215	4154	4211		13.375		40		Circ
									(CIBP)				8.625		1510	785	Circ
													5.5		4370	435	Circ
29131	Altura	30-025-07447	29	-18S	-38E	L	10/1/30	Prod	4130	4050	4210		9.625	12	2750	650	660
									(CIBP)				7	8.75	3976	300	
													5 Lnr	6.125	3870-4220	50	3930
29141	Altura	30-025-07448	29	-18S	-38E	M	8/1/30	Prod	3400	4033	4218-58		9.625		2750	650	1000
									(CIBP)		(OH)	3960-4108	7		3960	450	1860
												(OH)	5.5		3941	250	Surf/Circ
29132	Altura	30-025-26917	29	-18S	-38E	L	12/1/80	Inj	4372	4030	4265		16	20	40	40	Surf
													8.625	12.25	1595	785	Surf
													5.5	7.875	4510	900	Surf/CBL
29221	Altura	30-025-07430	29	-18S	-38E	F	9/1/30	Prod	4267	4118	4176	4154-62	9.625		2704	400	1236
												4175-85	7		3979	500	2753
												4195-4200	4.5 Lnr		3910-4213	50	3910
												4213-67					
29222	Altura	30-025-26934	29	-18S	-38E	F	4/1/81	Inj	4465	4175	4265		16	20	40	40	Surf
													8.625	12.25	1605	950	Circ
													5.5	7.875	4510	1050	Surf
29231	Altura	30-025-07438	29	-18S	-38E	K	10/1/30	Prod	4255	4106	4220-55		9.625	12.25	2729	600	987
											OH		7	8.75	3953	300	2896
													5		4220	50	

Note: Calculated TOC's are estimated assuming 50% efficiency

Active wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	Oper	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
30321	Altura	30-025-07467	30	-18S	-38E	G	7/1/30	Prod	4257	4130	4196	4030-60	9.625	11.75	2755	600	553
													7	8.75	3854	250	2342
													5	7	4200	405	Circ/CBL
30331	Altura	30-025-07472	30	-18S	-38E	J	9/1/30	Prod	4225	4014	4225	4068-72	9.625	12	2750	650	1000
												4074-92	7	8.75	3960	300	Circ
													5.5	6.125	4238	30	3650 CBL
30332	Altura	30-025-28954	30	-18S	-38E	J	5/1/85	Prod	4323	4103	4288		13.375		40		
													9.625		1503	650	Circ
													7		4371	800	Circ
30333	Altura	30-025-28955	30	-18S	-38E	J	2/1/85	Inj	4328	4137	4290		13.375		40		
													8.625		1579	425	Surf
													5.5		4370	500	Circ
30341	Altura	30-025-24665	30	-18S	-38E	O	3/1/74	Prod	4202	4042	4276	4104-26	9.625	12.25	1463	500	Circ
												4164-70	5.5	7.875	3956	625	1910 CBL
												4180-96	3.5 Lnr	4.75	3715-4350	125	3715
												4056-69					
30412	Altura	30-025-23384	30	-18S	-38E	A	1/1/70	Prod	4300	4009	4261	4142-4225	13.375	17.5	329	400	Circ
													9.625	12.25	3848	1200	75
													7	8.75	7106	865	Circ
30421	Altura	30-025-07468	30	-18S	-38E	H	7/1/30	Prod	4258	4114	4202-58		9.625	11.75	2756	600	554
											OH		7	8.75	3858	250	Circ
													5	6.25	4202	450	Surf/CBL
30422	Altura	30-025-27059	30	-18S	-38E	H	5/1/81	Inj	4477	4110	4265	4108-23	16	20	40	40	Surf
													8.625	12.25	1524	850	Circ
													5.5	7.875	4510	1000	2500 CBL
30431	Altura	30-025-107474	30	-18S	-38E	I	9/1/30	Prod	4213	4085	4229	3975-4103	9.625	12	2750	650	
													7	8.75	3975	300	2009 Calc.
													5.5	6.125	3917	600	CBL/Circ

Note: Calculated TOC's are estimated assuming 50% efficiency

Active wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	Oper	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perts	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
30441	Altura	30-025-07473	30	-18S	-38E	P	8//30	Prod	4267	4094	4200		9.625	12	2750	650	365
													7	8.75	3970	300	2624 CBL
													5.5 Lnr		3847-4267	50	Circ.
30442	Altura	30-025-27001	30	-18S	-38E	P	5//81	Inj	4420	4162	4257	4110-16	16	12.25	40	40	Circ
												4128-34	8.625	12.25	1606	850	Circ
													5.5	7.875	4510	1075	Circ
30443	Altura	30-025-28958	30	-18S	-38E	P	1//85	Inj	4185	4094	4247		8.625		1470	425	440
									CIBP				5.5		4370	340	858
30444	Altura	30-025-28959	30	-18S	-38E	P	4//85	Prod	4145	4106	4270		13.375		40		
									CIBP				9.625		1519	500	Circ
													7		4369	1035	3900
31411	Altura	30-025-07490	31	-18S	-38E	A	7//30	Prod	4159	4134	3938-4175		9	11.75	2744	600	1868
											OH		7	8.25	3938	200	Surf/CBL
													5 Lnr	6.20	3765-4289	75	3756

* V

Note: Calculated TOC's are estimated assuming 50% efficiency

Active Outside Operated wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBID	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oper					Ltr											
Bowers A Fed. #28	30-025-23022	29	-18S	-38E	M	3/69	Prod	5350	2628	3734	2947	11.75	15	374	300	Circ.
Exxon								CIBP				8.625	11	3850	500	2500 TS
												5.5	7.875	5989	450	3838 'c'
Bowers A Fed. #29	30-025-23131	29	-18S	-38E	L	5/69	Prod	6000	5831	5889		11.75	15	370	300	Surf 'c'
Exxon												8.625	11	3849	500	1877 'c'
												4.5	7.875	6000	450	5087 'c'
Bowers A Fed. #37	30-025-26485	30	-18S	-38E	P	10/79	Prod	3918	2637	3556		8.625	12.25	501	400	Circ.
Exxon												5.5	7.625	3910	850	Circ.
Bowers A Fed. #38	30-025-28580	30	-18S	-38E	I	2/84	Prod	6220	5760	7006		13.38	17.5	1476	1220	Circ.
Exxon								CIBP		OH		10.75	12.25	4491	1650	Circ.
												5.5	7.875	7000	660	4985
Grimes A #1	30-025-07519	32	-18S	-38E	D	4/30	Prod	3780	3684	3749		9.625	12.25	2735	600	307 'c'
Chevron												7	8.75	3933	200	3264 'c'
												4.5	6.25	4260	70	4031 'c'
HD McKinley #8	30-025-23151	30	-18S	-38E	H	6/69	Prod	5615	3676	3754		13.375	17.5	360	340	SURF
Getty												8.625	11	3842	1400	SURF
												5.5	7.875	6057	650	3300
HD McKinley #9	30-025-23221	30	-18S	-38E	G	8/69	Prod	6961	5761	6965		13.375	17.5	378	400	Circ.
Getty								CIBP				9.625	12.25	3851	1748	Circ.
												7	8.75	6999	650	2700 TS
Hobbs State #1	30-025-23585	29	-18S	-38E	F	11/70	Prod	7032	6680	6992		12.75	17.5	356	200	Circ.
Marcum Drilling Co.												8.625	11	3795	300	2600
												5.5	7.875	7050	700	3839 cbl
Hobbs SWD F #WD29	30-025-12802	29	-18S	-38E	F	2/60	Inj	5050	4469	5050		9.625	12.25	450	300	Circ.
Rice Operating Co.										OH		7	8.75	4706	750	Surf 'c'
Seed St 30 #1	30-025-22994	30	-18S	-38E	K	2/69	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							

Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

Active Outside Operated wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oper					Ltr											
Seed St 30 #2	30-025-	22995	30	-18S	-38E	K	2/1/69	Prod	45	10	45	7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #3	30-025-	22996	30	-18S	-38E	K	2/1/69	Prod	45	10	45	7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #4	30-025-	22997	30	-18S	-38E	K	2/1/69	Prod	45	10	45	7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #5	30-025-	22998	30	-18S	-38E	K	2/1/69	Prod	45	10	45	7	8.5	10	2	No data
C.E. Seed									OH							
St #7	30-025-	07485	30	-18S	-38E	N	4/1/48	Prod	3252	3171	3252	8.625	11	296	125	Surf 'c'
Saga Pet. LLC									OH			5.5	7	3171	900	Surf 'c'
St A #7	30-025-	22934	29	-18S	-38E	N	1/1/69	Prod	6050	5823	5941	11.75	15	360	250	Surf 'c'
Conoco												8.625	11	3800	240	3064 'c'
												5.5	7.875	6050	405	4444 'c'
St A #8	30-025-	23048	29	-18S	-38E	K	2/1/69	Prod	5960	3652	5787	8.625	11	3800	240	2550 TS
Conoco												5.5	7.875	5960	405	2900 TS

Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

Plugged wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBTD	Top Perf	Bot Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oper																
B.A. Bowers #2	30-025-08045	30	-18S	-38E	J	5/1/30	PA	242	No data	No data		12.5		242	225	Surf 'c'
Exxon																
B.A. Bowers #6	30-025-07475	30	-18S	-38E	I	11/1/30	PA	3190	3147	3190		12.5	17	217	200	Surf 'c'
Exxon									OH			9.625	11.5	2750	650	Surf 'c'
												7	8.75	3147	120	2470 TS
Bowers A #12	30-025-07450	29	-18S	-38E	L	4/1/47	PA	3088	No data	No data		8.625	11	222	100	Surf 'c'
Exxon												5.5	7.875	3132	575	880 TS
Bowers A #13	30-025-07476	30	-18S	-38E	J	7/1/47	PA	3189	3148	3189		8.625	11	283	125	Surf 'c'
Exxon									OH			5.5	7.625	3150	1350	Surf 'c'
Bowers A #14	30-025-07451	29	-18S	-38E	M	8/1/47	PA	3207	3120	3207		8.625	11	496	400	Circ.
Exxon									OH			5.5	7.625	3120	1350	Circ.
Bowers A #16	30-025-07478	30	-18S	-38E	O	10/1/47	PA	3225	3151	3221		8.625	11	262	150	Circ.
Exxon									OH			5.5	7.625	3151	1000	Circ.
Bowers A Fed #1	30-025-07471	30	-18S	-38E	I	11/1/30	PA	6000	5812	5922		9.625	11.5	2750	620	No data
Exxon												7	8.75	3962	528	
												4.5	6.25	6000	275	2200 TS
Bowers A Fed #15	30-025-07477	30	-18S	-38E	P	8/1/47	PA	3218	3158	3218		8.625	11	249	150	Circ.
Exxon									OH			5.5	7.625	3158	1250	Circ.
Bowers A Fed #17	30-025-21900	30	-18S	-38E	J	10/1/66	PA	50	12	50		7	8	12	6	Circ.
Exxon									OH							
Bowers A Fed #30	30-025-23144	30	-18S	-38E	P	6/1/69	PA	6000	5356	5946		8.625	11	3836	500	2300 TS
Exxon												4.5	7.875	5988	550	2800 TS
Bowers A Fed #31	30-025-23176	29	-18S	-38E	E	6/1/69	PA	7050	6075	6991		8.625	11	3836	500	1858 'c'
Exxon												5.5	7.875	7038	650	3125 'c'

Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

Plugged wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oper					Ltr											
Bowers A Fed. #32	30-025-23235	30	-18S	-38E	O	8/69	PA		5825	5964	5887-01	13.375	17.5	385	400	2250
Exxon											6974-82	9.625	11	3850	550	2900
												7	8.75	7053	895	
Bowers A Fed. #33	30-025-23222	29	-18S	-38E	D	7/69	PA	3970	4144	5953	4256-66	13.375	17	416	400	Surf 'c'
Exxon								CIBP			5939	9.625	12.25	5988	350	
												7	8.75		550	
Bowers A Fed. #9	30-025-07446	29	-18S	-38E	E	8/30	PA	4259	No data			12.5	17	226	250	Surf 'c'
Exxon												9.625	11	2750	650	Surf 'c'
												7	8.75	3976	300	2002 'c'
Bowers A Fed. #CT19	30-025-21966	30	-18S	-38E		1/67	PA	30								
Exxon																
Bowers A Fed. #CT20	30-025-21967	30	-18S	-38E		1/67	PA	32								
Exxon																
Bowers A Fed. #CT21	30-025-21968	30	-18S	-38E		1/67	PA	37								
Exxon																
Bowers A Fed. #CT22	30-025-21961	29	-18S	-38E		1/67	PA	32								
Exxon																
Bowers A Fed. #CT23	30-025-21962	29	-18S	-38E		1/67	PA	35								
Exxon																
Bowers A Fed. #CT24	30-025-21963	29	-18S	-38E		1/67	PA	35								
Exxon																
Bowers A Fed. #CT25	30-025-21964	29	-18S	-38E		1/67	PA	35								
Exxon																
Bowers A Fed. #CT27	30-025-21970	30	-18S	-38E		1/67	PA	35								
Exxon																

NO DATA

5-1A-1E RECORDS

Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

Plugged wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs	TOC
Oper					Ltr											
Bowers A-B #1	30-025-07453	29	-18S	-38E	D	9/1/48	PA	3238	3179	3238		8.625	11	260	150	Circ.
Exxon									OH			5.5	7.625	3179	1050	Circ.
Bowers Fed. A #10	30-025-22147	30	-18S	-38E	J	6/1/67	PA	38	10	38		7	7.875	10	3	No data
ARC Ind. / Exxon									OH							
Bowers Fed. A #11	30-025-22148	30	-18S	-38E	J	6/1/67	PA	38	10	38		6.625	6.75	10	3	No data
ARC Ind. / Exxon									OH							
Bowers Fed. A #12	30-025-22190	30	-18S	-38E	J	10/1/67	PA	45	10	45		6.625	6.75	10	3	No data
ARC Ind. / Exxon									OH							
Bowers Fed. A #2	30-025-22125	30	-18S	-38E	J	6/1/67	PA	38	10	38		6.625	6.75	10	3	No data
ARC Ind.									OH							
Bowers Fed. A #3	30-025-22126	30	-18S	-38E	J	6/1/67	PA	38	10	38		7	7.785	10	3	No data
ARC Ind.									OH							
F. A Bowers #13	30-025-22277	30	-18S	-38E	J	10/1/67	PA	45	10	45		5.5	6.75	10	3	No data
ARC Ind.									OH							
F. A Bowers #4	30-025-22127	30	-18S	-38E	J	7/1/67	PA	38	10	38		6.625	6.75	10	3	No data
ARC Ind. / Exxon									OH							
F. A Bowers #5	30-025-22189	30	-18S	-38E	J	7/1/67	PA	38	10	38		6.625	6.75	10	3	No data
ARC Ind. / Exxon									OH							
F. A Bowers #6	30-025-22276	30	-18S	-38E	J	10/1/67	PA	45	10	45		5.5	6.75	10	3	No data
ARC Ind.									OH							
Bowers A Fed. #34	30-025-23260	30	-18S	-38E	J	8/1/69	PA	7010	5822	6979	5848-98	9.625	12.25	3850	550	2400
Exxon											6932-75	3.5 B	7.875	6088	895	2600
												3.5 D	7.875	7010	895	2600
H.D. McKinley #3	30-025-07461	30	-18S	-38E	H	7/1/30	PA	3199	3166	3199		9.625	12.25	2755	600	337 'c'
Getty									OH			7	8.25	3166	100	2595 'c'

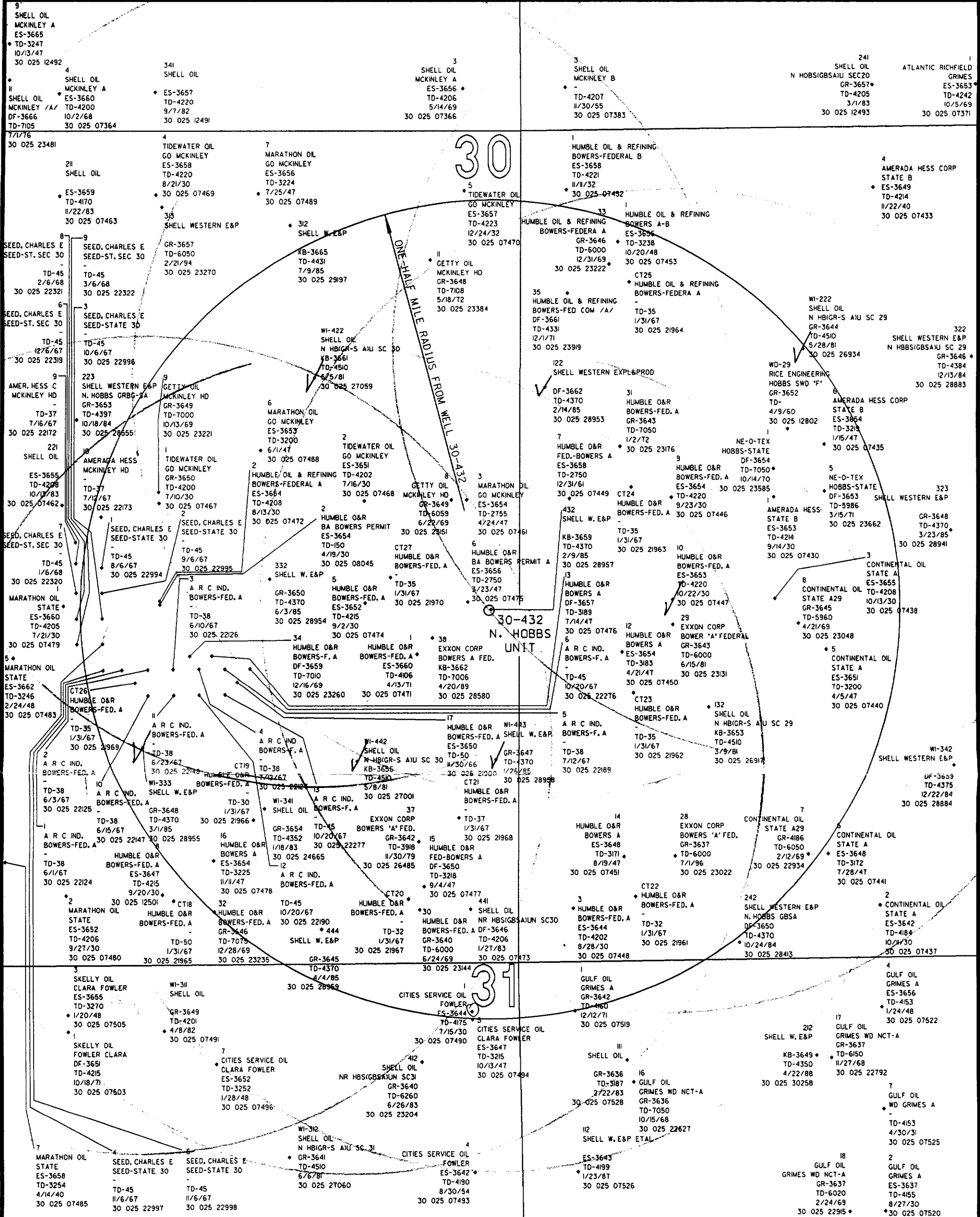
Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

Plugged wells within 1/2 mile radius of proposed 30-432 conversion

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oper					Ltr											
H.D. McKinley #6	30-025-07488	30	-18S	-38E	G	6/47	PA	3200	3178	3200		8.625	11	1474	400	498 'c'
Getty									OH			5.5	6.875	3178	200	
Hobbs St #5	30-025-23662	29	-18S	-38E	F	1/171	PA	5886	5813	5879		9.625	12.25	364	200	Surf
Ne-O-Tex												7	8.75	3826	200	2250
												4.5	6.25	5986	120	3800
McKinley #10	30-025-22173	30	-18S	-38E	F	6/67	PA	37	10-37 OH			5.5	6.75	10	1YD	No data
Amerada																
St A #5	30-025-07440	29	-18S	-38E	K	3/47	PA	3200	3168	3188		10.75	13.75	272	200	Surf 'c'
Conoco												7.625	9.875	999	425	Surf 'c'
												5.5	7.875	3206	450	No data

Note: 'c' in TOC column denotes calculated cmt top w/ 50% efficiency.

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE



Altura Altura Energy Ltd.
ENERGY, LTD.

Area of Review Plat
**NORTH HOBBS (GRAYBURG
SAN ANDRES) UNIT**

WELL NO. 30-432

T-18-S, R-38-E

Lea County, New Mexico

Scale: 1" = 600' 07-03-99 nm38a00.dgn - 11
Plat prepared by PJE Drafting, Inc.
For Horizon Survey, Inc.