

PMX 12/21/99



November 30, 1999

DEC - 6 1999

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

RE: Expansion of Pressure Maintenance Project
North Hobbs (Grayburg/San Andres) Unit
Hobbs; Grayburg - San Andres Pool
Well No. 233
Letter K, 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. 233 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. 233). 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

Offset Operators (see attached list)

Surface Owners (see attached list)

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? 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? 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: 11/22/99

* 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

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. 233
Letter K, 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

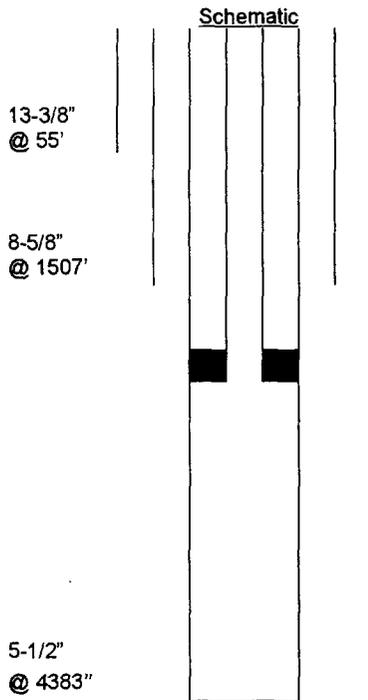
Acid treatment of unitized perforations will be performed during conversion work

- 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. 30-233	Footage Location 2455 FSL & 1480 FWL	Section 30	Township 18-S	Range 38-E	Unit Letter K



<u>Surface Casing</u>		<u>Tubular Data</u>	
Size	<u>13-3/8</u>	Cemented with	_____ sxs.
TOC	_____	Determined by	_____
Hole size	_____		
<u>Intermediate Casing</u>			
Size	<u>8-5/8</u>	Cemented with	<u>629</u> sxs.
TOC	<u>Surf</u>	Determined by	<u>Circ.</u>
Hole size	_____		
<u>Long string Casing</u>			
Size	<u>5-1/2"</u>	Cemented with	<u>1070</u> sxs.
TOC	<u>Surf</u>	Determined by	<u>Circ.</u>
Hole size	_____		
Total depth	<u>4383'</u>		
<u>Injection interval</u>			
	<u>4000</u>	feet to	<u>4350</u> feet
<u>Completion type</u>		<u>Perforations</u>	

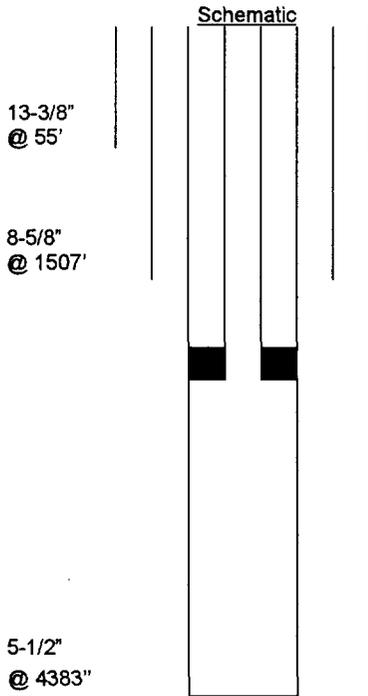
Tubing size 2-7/8" lined with Fiberglass Epoxy set in a
Giberson Uni VI packer at ±3950 feet
(brand and model)

Other Data

1. Name of the injection formation San Andres
2. Name of field or Pool Hobbs (Grayburg/San Andres) Pool
3. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? San Andres producer
4. 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
5. 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. 30-233	Footage Location 2455 FSL & 1480 FWL	Section 30	Township 18-S	Range 38-E	Unit Letter K



		<u>Tubular Data</u>	
<u>Surface Casing</u>			
Size	<u>13-3/8</u>	Cemented with	_____ sxs.
TOC	_____	Determined by	_____
Hole size		_____	
<u>Intermediate Casing</u>			
Size	<u>8-5/8</u>	Cemented with	<u>629</u> sxs.
TOC	<u>Surf</u>	Determined by	<u>Circ.</u>
Hole size		_____	
<u>Long string Casing</u>			
Size	<u>5-1/2"</u>	Cemented with	<u>1070</u> sxs.
TOC	<u>Surf</u>	Determined by	<u>Circ.</u>
Hole size		_____	
Total depth		<u>4383'</u>	
<u>Injection interval</u>			
	<u>4000</u>	feet to	<u>4350</u> feet
<u>Completion type</u>		<u>Perforations</u>	

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

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

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-28942	Pool Code 31920	Pool Name HOBBS; GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 233
OGRID No. 157984	Operator Name ALTURA ENERGY LTD.	Elevation 3654

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	feet from the	North/South line	feet from the	East/West line	County
K	30	18 S	38 E		2454	SOUTH	1491	WEST	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Mark Stephens</u> Signature</p> <p><u>Mark Stephens</u> Printed Name</p> <p><u>Business Analyst (SG)</u> Title</p> <p><u>November 22, 1999</u> Date</p> <hr/> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p style="text-align: right;">JULY 20, 1999</p> <p>Date Surveyed _____ DMCC</p> <p>Signature <u>Ronald E. Edson</u> Professional Surveyor</p> <p style="text-align: center;"> </p> <p>Certificate No. <u>RONALD E. EDSON</u> 3239 <u>GARY E. DONALD</u> 2641 <u>WILLIAM DONALD</u> 12185</p>
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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

OIL CONSERVATION DIVISION

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-28942	Pool Code 31920	Pool Name HOBBS; GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 233
OGRID No. 157984	Operator Name ALTURA ENERGY LTD.	Elevation 3654

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	18 S	38 E		2454	SOUTH	1491	WEST	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

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	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>JULY 20, 1999 Date Surveyed</p> <p>DMCC</p>	
	<p>Date Surveyed</p> <p>Signature: <i>Ronald B. Edison</i></p> <p>Professional Surveyor</p> <p>RONALD B. EDISON REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO 12689-11-0599-27-99</p>	
	<p>Certificate No. RONALD B. EDISON 3239</p> <p>12641</p> <p>12185</p>	



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

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

* - Calculated 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

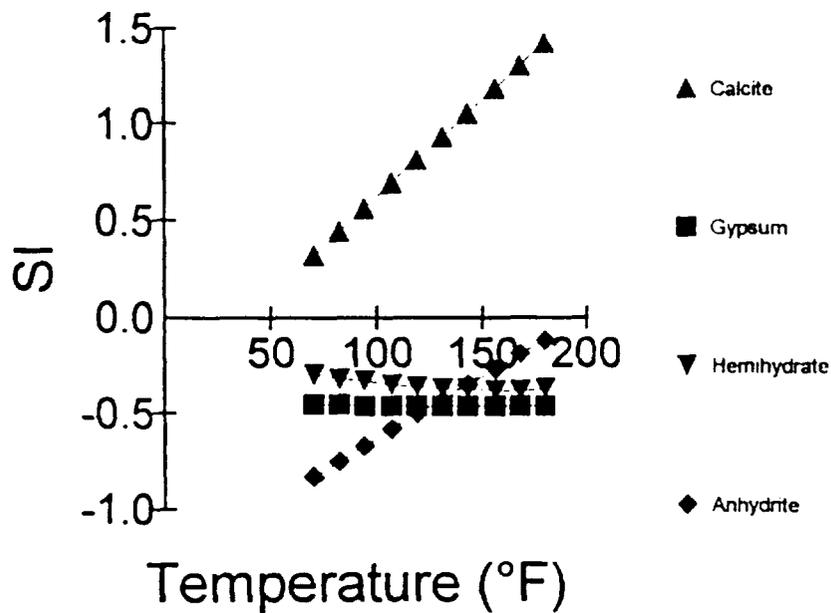
Site Information

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 18S-38E-Sec 30 NW1/4, NE1/4, SW1/4, SE1/4, SW1/4

SAMPLED BY David Nelson

DATE TAKEN 10/12/99

REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	212	
pH at Lab	7.46	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	172	
Total Hardness as CaCO3	296	
Chlorides as Cl	85	
Sulfate as SO4	135	
Iron as Fe	0.01	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	7	23 C
Total Dissolved Solids	922	
Calcium as Ca	124	
Nitrate	7.9	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.04

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 CaCO3	216	
Chlorides as Cl	64	
Sulfate as SO4	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



Laboratory Services, Inc.

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

Water Analysis

COMPANY Altura Energy Ltd,

SAMPLE 18S-38E-Sec.30 SW1/4,NE1/4,NE1/4,SW1/4,NE1/4

SAMPLED BY David Nelson

DATE TAKEN 10/12/99

REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	248	
pH at Lab	7.15	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	174	
Total Hardness as CaCO3	300	
Chlorides as Cl	71	
Sulfate as SO4	110	
Iron as Fe	0.22	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	7.5	23 c
Total Dissolved Solids	820	
Calcium as Ca	126	
Nitrate	2.2	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.35

Analysis by: Rolland Perry

Date: 10/19/99

**WELL SCHEMATIC:
ALTURA NHU 30-342**

WELL PLUGGED:
4/27/99

12 1/2"
220'
210 SX
TOC: SURF

Spotted 10 sx cmt plug from
60' to 3'.

Spotted 36 sx cmt plug from
306' to 97'.

Circulated plugging mud.

Spotted 25 sx cmt plug from
1713' to 1564'.

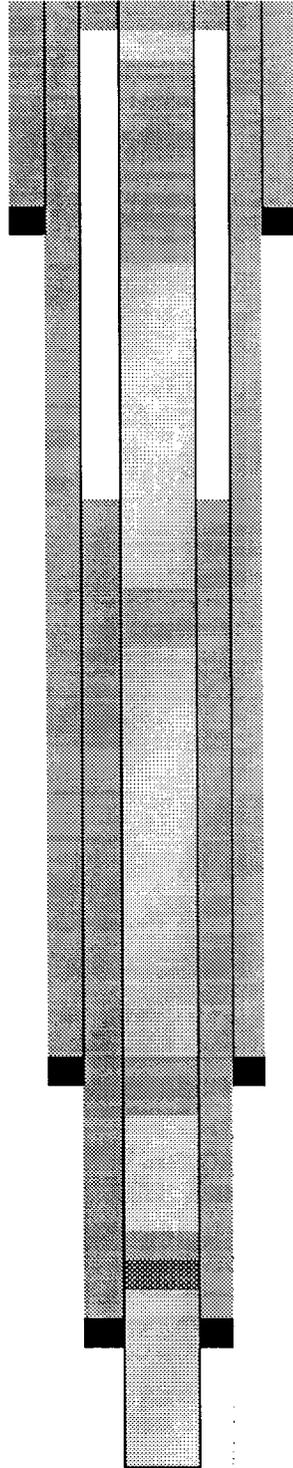
9 5/8"
2750'
650' SX
TOC: SURF

Spotted 25 sx cmt plug from
2825' to 2696'.

7"
3974'
300 SX
TOC: 1144' CBL

Dumped 25 sx cmt on top of
CIBP at 3825'.

TD: 4268'



**WELL SCHEMATIC:
EXXON BOWERS #2**

WELL PLUGGED:
5/12/30

Hole cemented with 40 sxs
From 66' to surface.

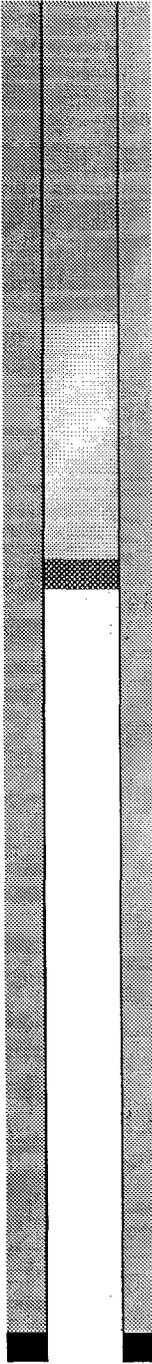
Hole mudded from 106'
To 66'.

PBTD: 106'

Plugged back at 106' with ?

12.5"
25 sxs
TOC: SURF(C)

TD: 242'

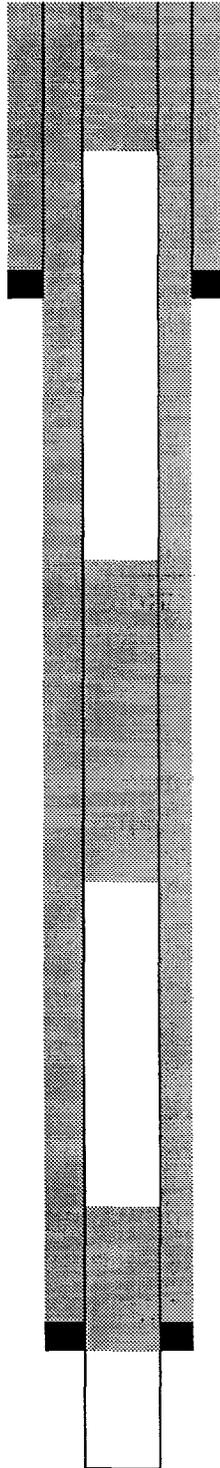


**WELL SCHEMATIC: EXXON
BOWERS A FED. #13**

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'

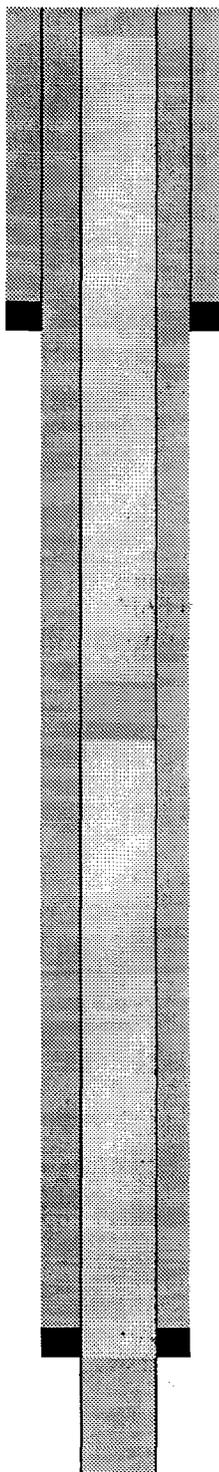
**WELL SCHEMATIC:
EXXON BOWERS A FED #16**

WELL PLUGGED:
11/27/70

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

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

TD: 3225'



Spotted a 10 sxs cmt plug at
surface with marker.

Hole loaded with mud laden
fluids.

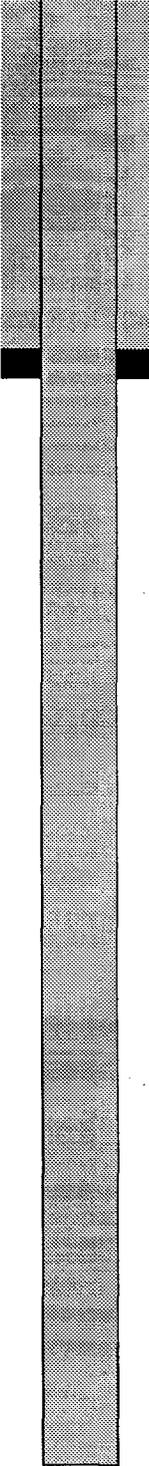
Spotted a 20 sxs cmt plug
from 1400' to 1550'

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

**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.

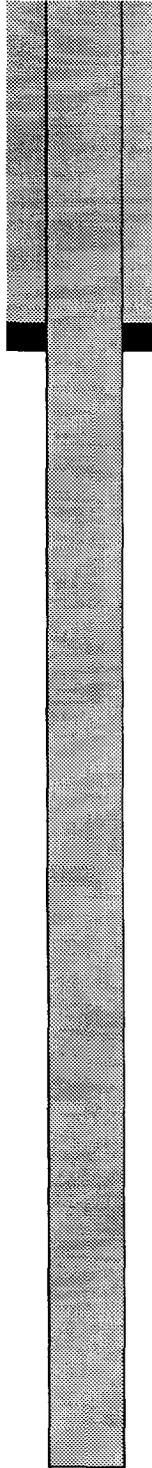
Filled hole with approximately
.75 yards of 5 sx Redi-Mix.

TD: 50'

**WELL SCHEMATIC:
ARC IND BOWERS A FED #1**

WELL PLUGGED:
8/19/98

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



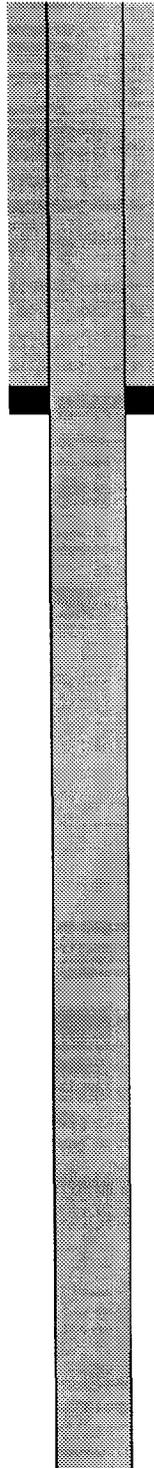
Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

TD: 42'

**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.

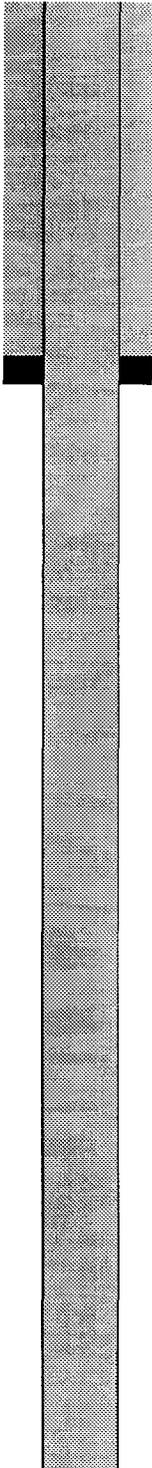
10' to 38' – open hole.

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.

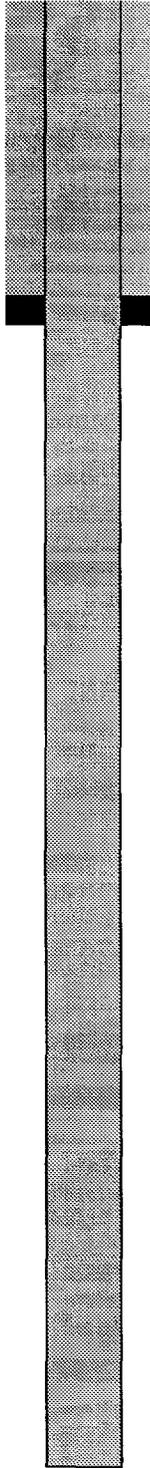
10' to 38' – open hole.

TD: 38'

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

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.

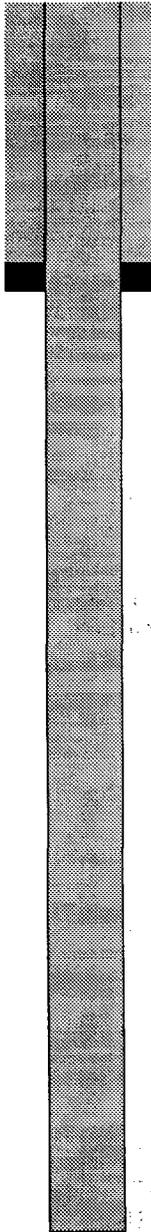
10' to 45' – open hole

TD: 45'

**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.

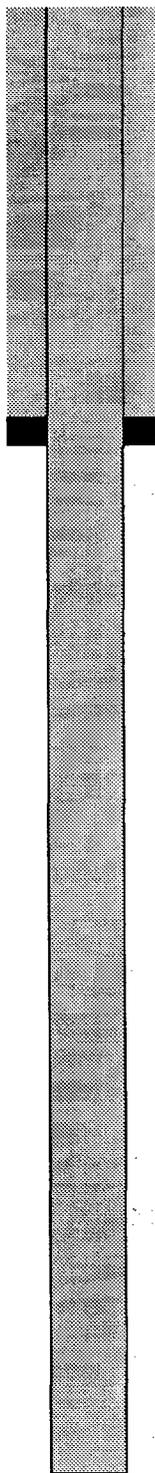
10' to 38' – open hole.

TD: 38'

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

WELL PLUGGED:
8/19/98

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



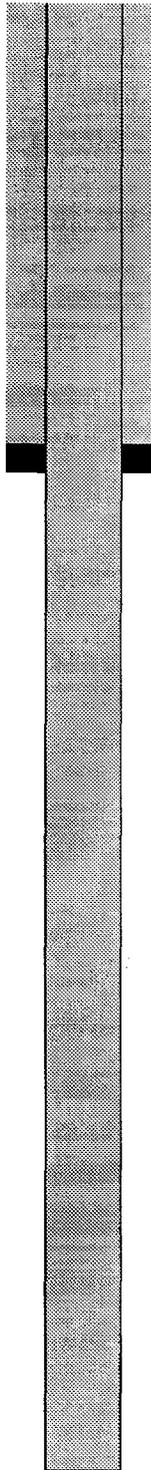
Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

TD: 38'

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

WELL PLUGGED:
8/19/98

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



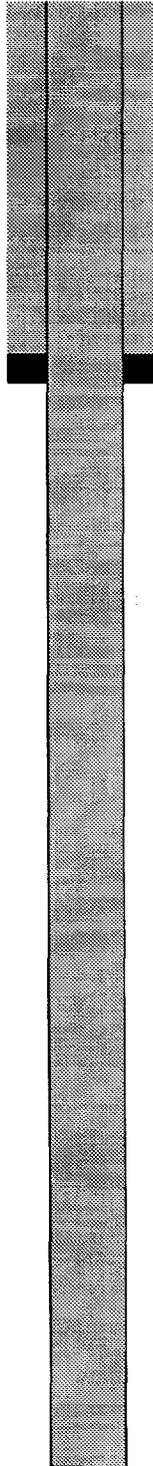
Csg was pulled out of hole.
Well was filled to the surface
With approximately .75 yards
Of 5 sx Redi-Mix.

TD: 38'

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

WELL PLUGGED:
8/19/98

6 ¾"
10'
3 SX
TOC: NA

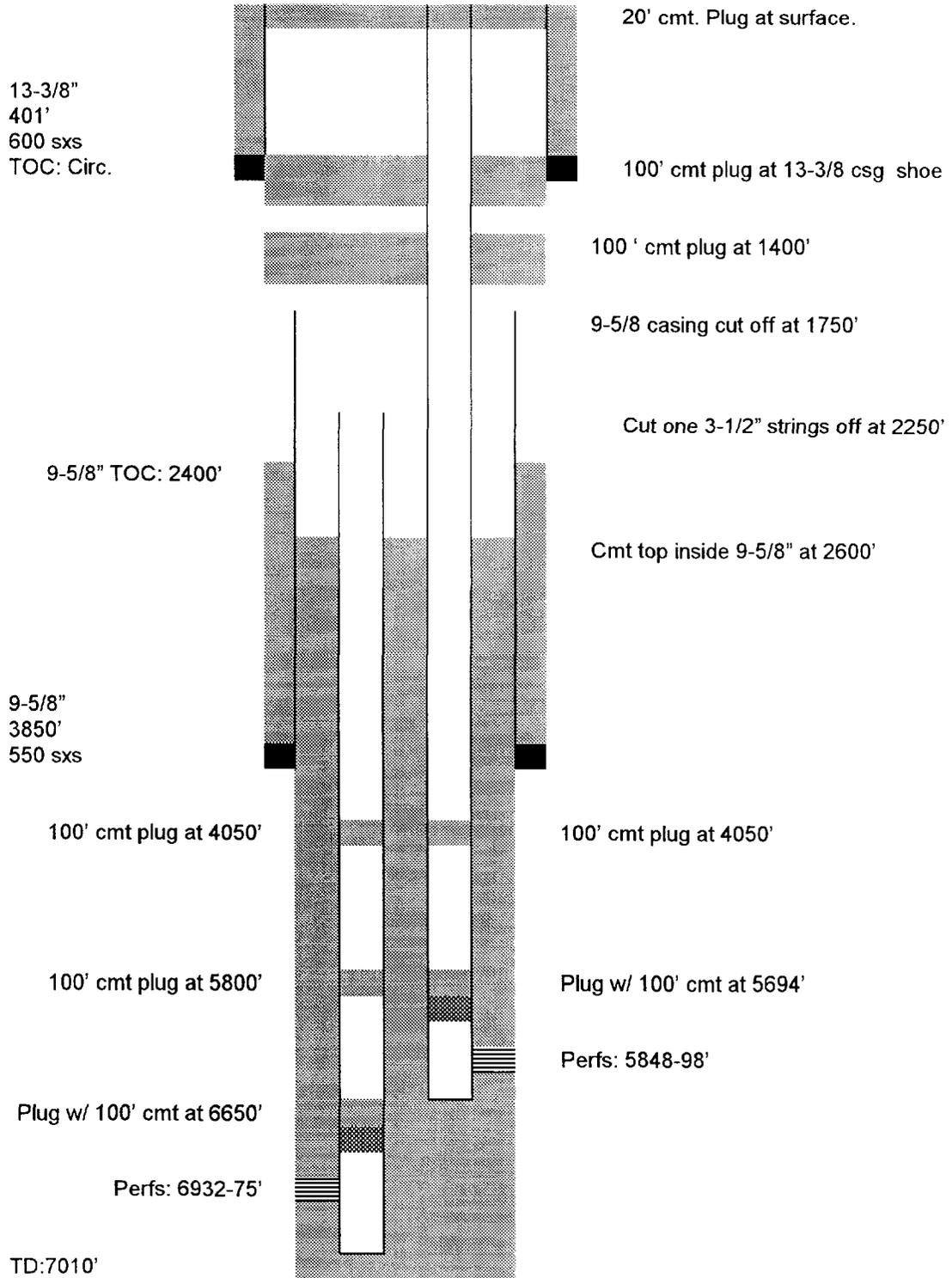


Csg was pulled and well was
Filled with approximately
.75 yards of 5 sx Redi-Mix.

TD: 45'

WELL SCHEMATIC - Exxon Bowers A Federal #34

Well plugged 9/26/72

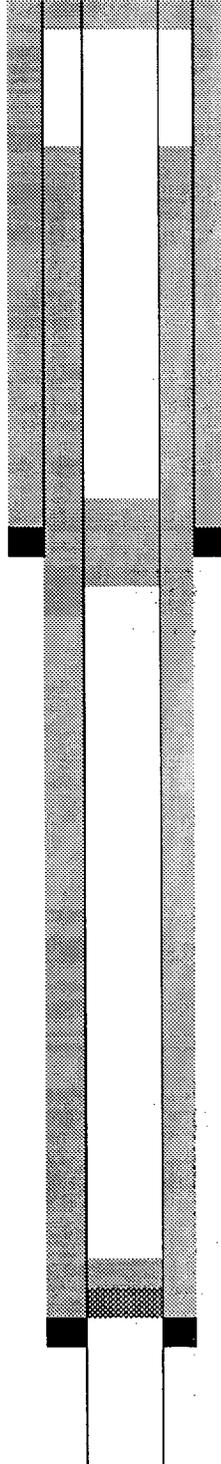


**WELL SCHEMATIC:
GETTY HD MCKINLEY #6**

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)

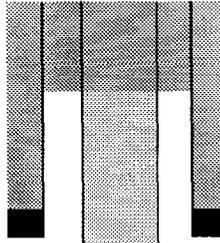
TD:3200'

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

**WELL SCHEMATIC:
AMERADA H.D. MCKINLEY #5**

WELL PLUGGED:
5/19/93

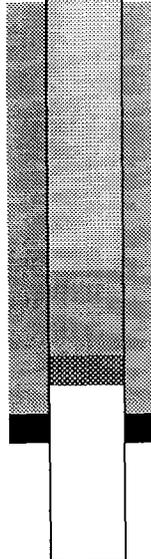
7 5/8"
432'
200 SX
TOC: CIRC



Spotted 25 sx cmt plug from
250' to surface.

Displaced hole with 75 bbls
Of 9 1/2 # mud.

5 1/2"
3130'
600 SX
TOC: 2992'



Spotted 25 sx cmt plug from
1850' to 1600'.

TD: 3230'

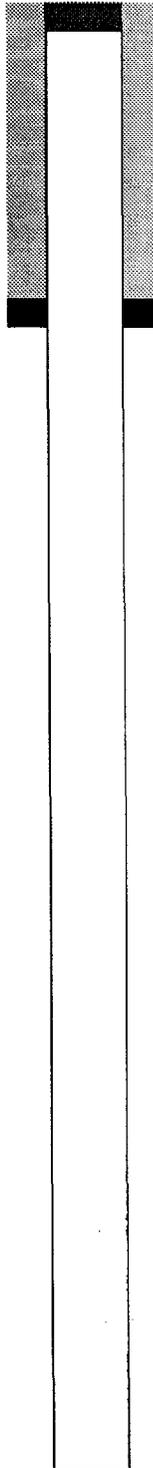
Spotted 25 sx cmt plug from
3050' to 2800'.

Set CIBP at 3050'.

**WELL SCHEMATIC:
AMERADA MCKINLEY #10**

WELL PLUGGED:
8/14/82

5 ½"
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:
AMERADA H.D. MCKINLEY # 6**

WELL PLUGGED:
5/17/93

7 5/8"
416'
200 SX
TOC: CIRC

Spotted 25 sx cmt plug from
250' to surface.

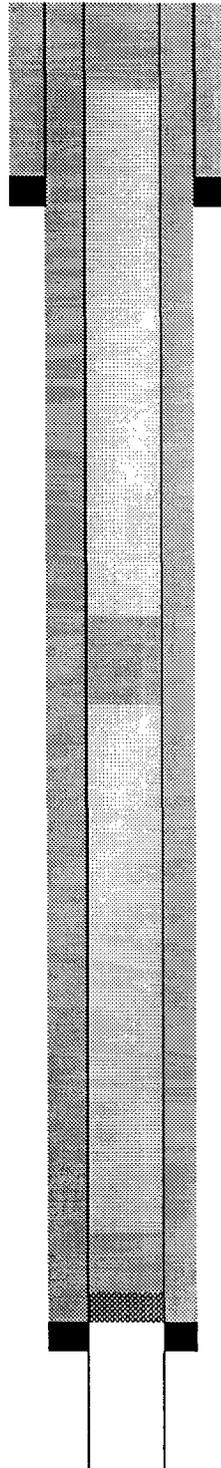
Displaced hole with 70 bbls
Of 9 1/2 # mud.

5 1/2"
3145'
625 SX
TOC: 20' TS

Spotted 25 sx cmt plug from
1850' to 1600'.

TD: 3229'

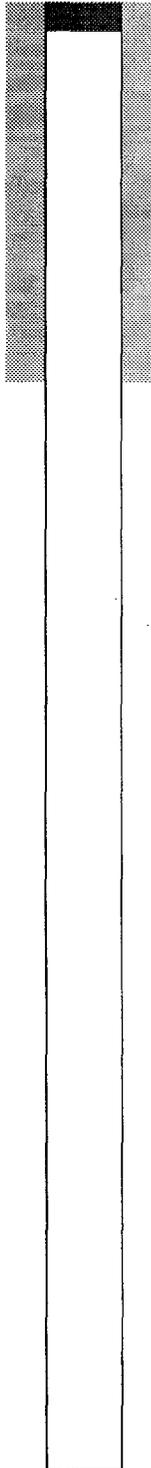
Spotted 25 sx cmt plug from
3100' to 2850'.
Set CIBP at 3100'.



**WELL SCHEMATIC:
AMERADA MCKINLEY #9**

WELL PLUGGED:
8/14/82

5 1/2"
10'
1 YD REDI-MIX
TOC: NA



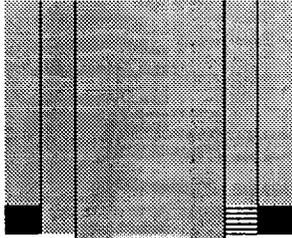
The pump was pulled from
Well and steel plates were
Welded on top of well.

TD: 37'

**WELL SCHEMATIC:
MARATHON STATE #4**

WELL PLUGGED:
3/14/57

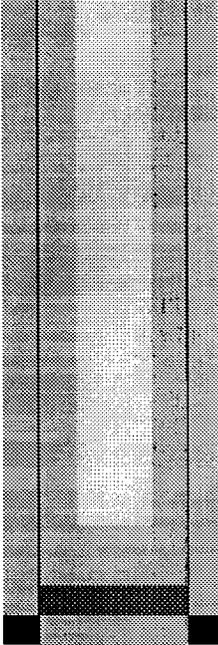
16"
260'
225 SX
TOC: SURF (C)



Perfd 9 5/8" csg at 255'. Circ
300 sx cmt to surf 9 5/8" x
16" csg annulus leaving 255'
Cmt plug in top of 9 5/8" csg
And 16" surf pipe.

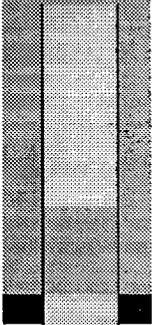
Hole loaded with gel based
Mud.

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



Spotted 125' cmt plug from
2703' to 2578'.
Set cast iron cmt ret in 9 5/8"
Csg at 2703' and sqzd 50 sx
Cmt below cmt ret.

7"
3946'
350 SX
TOC: NA



Cut 7" csg at 3060' and
Pulled same.

TD: 4215'

Spotted 312' cmt plug from
3602' to 3914'.

**WELL SCHEMATIC:
EXXON STATE A #1**

WELL PLUGGED:
8/24/48

8 5/8"
252'
150 SX
TOC: SURF (C)

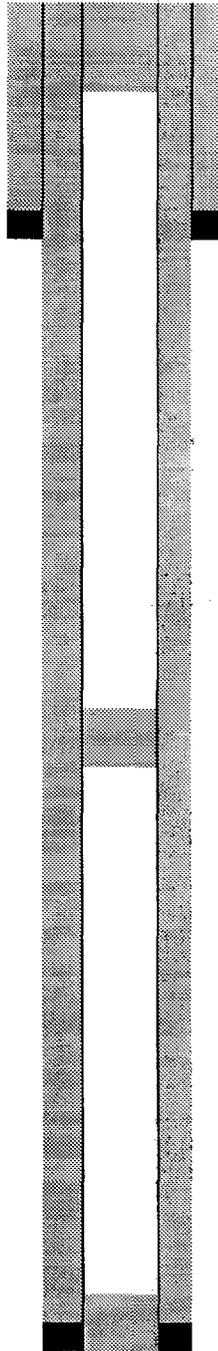
Pulled tbg and plugged hole
From 100' to surface

5 1/2"
3188'
1325 SX
TOC: CIRC

Pulled tbg up and spotted 40
Sx cmt from 1500' to 1800'

TD: 3270'

Spotted 15 sx cmt at 3270.



LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit
Well No. 233
Letter K, 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

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

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

Marathon Oil Company
P.O. Box 552
Midland, TX 79702-0552

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

Surface Owners

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

Sally Huston Seed (State of New Mexico Agricultural Lease GT-766)
4721 Lovington Hwy
Hobbs, NM 88240

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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to:	4a. Article Number	7. Date of Delivery
Sally Huston Seed 4721 Lovington Hwy. Hobbs, NM 88240	P 447 842 749	
5. Received By: (Print Name)	4b. Service Type	8. Addressee's Address (Only if requested and fee is paid)
6. Signature: (Addressee or Agent)	<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	
X		
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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to:	4a. Article Number	7. Date of Delivery
Getty Oil Company P.O. Box 797035 Dallas, TX 75379-7035	P 447 842 816	
5. Received By: (Print Name)	4b. Service Type	8. Addressee's Address (Only if requested and fee is paid)
6. Signature: (Addressee or Agent)	<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	
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3. Article Addressed to:	4a. Article Number	7. Date of Delivery
Charles E. Seed Houston Ranch Lovington Hwy. Hobbs, NM 88240	P 447 842 817	
5. Received By: (Print Name)	4b. Service Type	8. Addressee's Address (Only if requested and fee is paid)
6. Signature: (Addressee or Agent)	<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	
X		
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3. Article Addressed to: Marathon Oil Company P.O. Box 552 Midland, TX 79702-0552		4a. Article Number P 447 842 818	
		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)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X			
PS Form 3811, December 1994		102595-97-B-0179 Domestic Return Receipt	

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3. Article Addressed to: Saga Petroleum LLC 415 W. Wall, Suite 835 Midland, TX 79701		4a. Article Number P 447 842 819	
		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)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X			
PS Form 3811, December 1994		102595-97-B-0179 Domestic Return Receipt	

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3. Article Addressed to: State Of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa FE, NM 87504-1148		4a. Article Number P 447 842 820	
		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)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X			
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



Publisher

Sworn and subscribed to before

me this 22nd day of

October 1999



Notary Public.

My Commission expires
October 18, 2000
(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.

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

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 Department, for approval of the following injection wells for the purpose of secondary recovery:

- Pool Name: Hobbs; Grayburg -San Adres
- 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. Expected 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 Conservation Division, 2040, S. Pacheco, Santa Fe, NM 87505 within fifteen (15) days.
#16873

Active wells within 1/2 mile radius of proposed 30-233 conversion

Well Name	Oper	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PRTD	Top Perf	Bot. Perf	Sqz. Perts	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
25421	Altura	30-025-05504	25	-18S	-38E	H	9/30	Prod	4134	4051	4059		12.5	16	220	175	Circ
													9	11.75	2763	600	1010
													7	8.5	3932	200	2498
25431	Altura	30-025-05492	25	-18S	-38E	I	10/21/1930	Inj	4042	3965	4032		12.5	16	215	260	Circ
													9.625	11.75	2750	650	365
													7	8.75	3977		2163
25441	Altura	30-025-05499	25	-18S	-38E	P	4/1/55	Prod	4139	4024	4137	4146-87	8.625	11	344	225	Circ
													5.5	6.75	4187	1450	Surf. Calc.
30112	Altura	30-025-29063	30	-18S	-38E	D	3/1/85	Prod	4000	4034	4264		13.375		40	250	Circ
									CIBP				9.625		1520	675	Circ
													7		4369		Circ
30113	Altura	30-025-29064	30	-18S	-38E	D	1/1/85	Prod	4310	4042	4285		13.375	17.5	55	??	Circ
									CIBP				8.625		1495	620	Circ
													5.5	7.875	4370	990	Circ
30121	Altura	30-025-07464	30	-18S	-38E	E	9/1/30	Prod	3800	4042	4270	3994-4046	9.625	11.75	2749	400	1281
									CIBP			OH	7	8.75	3994	425	2738 CBL
													5 Lnr	6.125	3841-4312	40	Surf/CBL
30131	Altura	30-025-07481	30	-18S	-38E	L	10/1/30	Prod	4256	4082	4270	4006-70	9.625	11.75	2751	550	733
									CIBP			4116-40	7	8.75	3900	350	1783
												4182-4200	5	6.25	4207	50	3770 CBL
30141	Altura	30-025-07487	30	-18S	-38E	M	10/1/55	Inj	3956	4006	4076		10.75	13.75	368	200	Circ
													5.5	8.75	4273	3000	2558 CBL
30211	Altura	30-025-07463	30	-18S	-38E	C	8/1/30	Prod	4254	4149	4250	4078	9.625		2647	400	
												4086	6.625		3972	250	3130 CBL
												4100	5 Lnr		3867-4310	100	Circ

Note: Calculated TOCs are estimated with 50% efficiency

Active wells within 1/2 mile radius of proposed 30-233 conversion

Well Name	Oper	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or P8TD	Top Perf	Bot Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC	
30221	Altura	30-025-07462	30	-18S	-38E	F	4//30	Prod	4279	4072	4208-79	OH 4023-25 4081-4104	9.625	7	8.25	2750	535	787
												4120-28	6.25	3799-4207	125	3799	1500 CBL	
30222	Altura	30-025-26833	30	-18S	-38E	F	10//80	Inj	4290	4123	4302	3718 4322-29	16	20	40	40	Surf	
									CIBP				8.625	12.25	1570	950	Surf	
													5.5	7.875	4349	800	2608 CBL	
30223	Altura	30-025-28555	30	-18S	-38E	F	7//84	Prod	4321	4139	4280		16		30	650	Circ	
													8.625		1455	250	2496 CBL	
													5.5		4394			
30231	Altura	30-025-07479	30	-18S	-38E	K	7//30	Prod	4015	4119	4200-56	OH	9.625	12.25	2750	400	1589	
									CIBP				7	8.75	3930	550	604	
													5	6.25	4200	60	3193 CBL	
30232	Altura	30-025-26935	30	-18S	-38E	K	12//80	Inj	4519	4138	4310	4170-78 4186-94	16		40	40	Circ	
													8.625		1600	875	Circ	
													5.5		4555	1155	2614 CBL	
30241	Altura	30-025-07480	30	-18S	-38E	N	9//30	Prod	3900	3946	4101	4118-38 4158	9.625	12.25	2750	550	1154	
													7	8.75	3900	275	2237	
													5	6.25	4167	60	3368 CBL	
30242	Altura	30-025-28886	30	-18S	-38E	N	3//85	Prod	3975	4024	4240		13.375		40			
													8.625		1514	425	Circ	
													5.5		4368	525	Circ	
30321	Altura	30-025-07467	30	-18S	-38E	G	7//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//30	Prod	4225	4014	4225	4068-72 4074-92	9.625	12	2750	650	1000	
													7	8.75	3960	300	Circ	
													5.5	6.125	4238	30	3650 CBL	

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

Active wells within 1/2 mile radius of proposed 30-233 conversion

Well Name	Oper	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Parts	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
30332	Altura	30-025-28954	30	-18S	-38E	J	5/85	Prod	4323	4103	4288		13.375		40	650	Circ
													9.625		1503	800	Circ
													7		4371		
30333	Altura	30-025-28955	30	-18S	-38E	J	2/85	Imj	4328	4137	4290		13.375		40	425	Surf
													8.625		1579	500	Circ
													5.5		4370		
30341	Altura	30-025-24665	30	-18S	-38E	O	3/74	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					

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

Active Outside Operated wells within 1/2 mile of proposed 30-233 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											
HD McKinley #9	30-025-23221	30	-18S	-38E	G	8/169	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
Seed St 30 #1	30-025-22994	30	-18S	-38E	K	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #2	30-025-22995	30	-18S	-38E	K	2/169	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	2/169	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	2/169	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	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #6	30-025-22319	30	-18S	-38E	K	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #7	30-025-22320	30	-18S	-38E	K	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #8	30-025-22321	30	-18S	-38E	K	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
Seed St 30 #9	30-025-22322	30	-18S	-38E	K	2/169	Prod	45	10	45		7	8.5	10	2	No data
C.E. Seed									OH							
St #5	30-025-07483	30	-18S	-38E	K	2/148	Prod	3246	3155	3244		8.625	11	326	125	Surf 'c'
Saga Pet. LLC									OH			5.5	7	3155	1000	Surf 'c'
St #6	30-025-07484	30	-18S	-38E	M	3/148	Prod	3210	3197	3210		8.625	11	295	125	Surf 'c'
Saga Pet. LLC									OH			5.5	7	3197	900	Surf 'c'

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

Active Outside Operated wells within 1/2 mile of proposed 30-233 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											
St #7	30-025-07485	30	-18S	-38E	N	4//48	Prod	3252	3171	3252		8.625	11	296	125	Surf 'c'
Saga Pet., LLC									OH			5.5	7	3171	900	Surf 'c'
St #8	30-025-07486	30	-18S	-38E	L	4//48	Prod	3271	3173	3271		8.625	11	295	125	Circ.
Marathon									OH			5.5	7	3173	900	Circ.

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

Plugged wells within 1/2 mile of proposed 30-233 conversion

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBD	Top Perf	Bot Perf	Sqz Perfs	Csg Size	Hole Size	Depth	No. of Sxs.	TOC
Oper					Ltr											
30342	30-025-12501	30	-18S	-38E	O	9/1/30	PA	4268	3974	4268		12.5	18	210	210	Circ.
Altura										OH		9.625	12	2738	650	Circ.
												7	8.75	3974	300	1144 cbl
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																
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 #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. #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. #CT18	30-025-21965	30	-18S	-38E		1/1/67	PA	50								
Exxon																
Bowers A Fed. #CT19	30-025-21966	30	-18S	-38E		1/1/67	PA	30								
Exxon																
Bowers A Fed. #CT26	30-025-21969	30	-18S	-38E		1/1/67	PA	35								
Exxon																
Bowers Fed. A #1	30-025-22124	30	-18S	-38E	J	6/1/67	PA	42	10	38		6.625	6.75	10	3	No data
ARC Ind.									OH							
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.									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.									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.									OH							

NO DATA RECORDS

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

Plugged wells within 1/2 mile of proposed 30-233 conversion

Well Name	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBD	Top Perf	Bot. Perf	Sqz Perfs	Csg Size	Hole Size	Depth	No. of Sxs	TOC
Oper																
Bowers Fed. A #2	30-025-22125	30-18S	-38E	J	6/67	PA	38	10	OH	38		6.625	6.75	10	3	No data
ARC Ind.																
F.A Bowers #4	30-025-22127	30-18S	-38E	J	7/67	PA	38	10	OH	38		6.625	6.75	10	3	No data
ARC Ind.																
F.A Bowers #5	30-025-22189	30-18S	-38E	J	7/67	PA	38	10	OH	38		6.625	6.75	10	3	No data
ARC Ind.																
F.A Bowers #6	30-025-22276	30-18S	-38E	J	10/67	PA	45	10	OH	45		5.5	6.75	10	3	No data
ARC Ind.																
Bowers A Fed. #34	30-025-23260	30-18S	-38E	J	8/69	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 #6	30-025-07488	30-18S	-38E	G	6/47	PA	3200	3178	OH	3200		8.625	11	1474	400	Circ.
Getty												5.5	6.875	3178	200	498 'c'
HD McKinley #5	30-025-07465	30-18S	-38E	F	3/47	PA	3230	3197	OH	3206		7.625	9.875	432	200	Circ.
Amerada												5.5	6.75	3130	600	2992
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																
McKinley #6	30-025-07466	30-18S	-38E	C	3/47	PA	3229	3145		3229		7.625	9.875	416	200	Circ.
Amerada									OH			5.5	6.75	3145	625	20 TS
McKinley #9	30-025-22172	30-18S	-38E	F	6/67	PA	37	10-37	OH			5.5	6.75	10	1 YD	No data
Amerada																
St #4	30-025-07482	30-18S	-38E	M	11/30	PA	4215	3758		3850		16	20	260	225	Surf 'c'
Marathon/Saga												9.625	11.5	2750	500	No data
												7	8.75	3946	350	1307 'c'
St A #1	30-025-05495	25-18S	-37E	I	8/48	PA	3270	3188		3270		8.625	11	261	150	Surf 'c'
Exxon								OH				5.5	7.875	3188	1325	Circ.

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

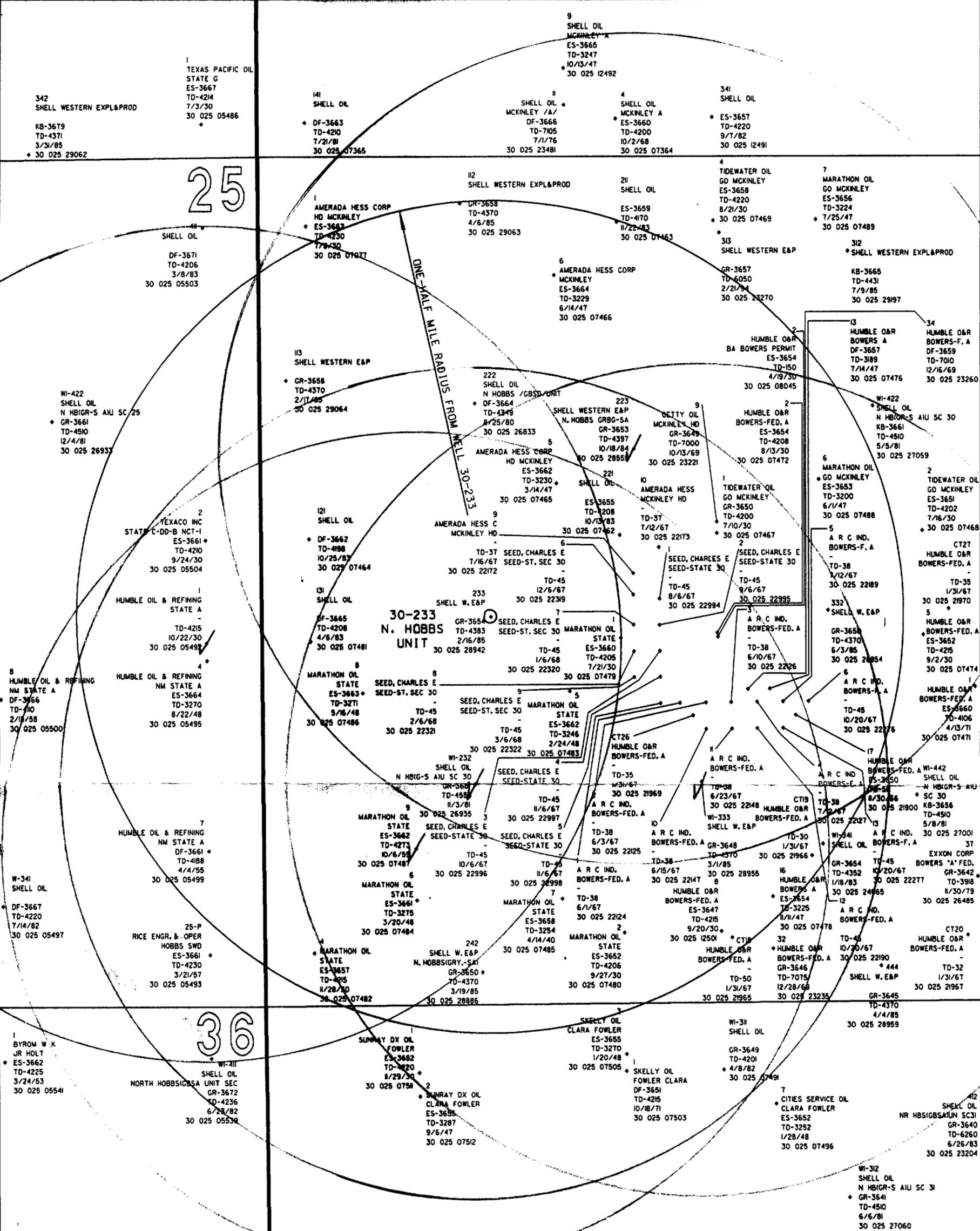
LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

25

36

30-233
N. HOBBS
UNIT

ONE-MILE RADIUS FROM WELL 30-233



NOTE:
WELL DATA DERIVED FROM THE PETROLEUM
INFORMATION - DATA MANAGEMENT SYSTEM,
WELL DATA SYSTEM PREPARED FOR AMOCO.

Altura Altura Energy Ltd.
ENERGY, LTD.

Area of Review Plat
**NORTH HOBBS (GRAYBURG
SAN ANDRES) UNIT**
WELL NO. 30-233
T-18-S, R-38-E
Lea County, New Mexico

Scale: 1" = 600' 07-03-99 nm138a00.dgn - 11
Plat prepared by PJE Drafting, Inc.
For Horizon Survey, Inc.

PMX-202



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

12/10/99

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

GOVERNOR

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

<u>Altura Energy Ltd</u>	<u>N Hobbs GB/SA Unit #</u>	<u>233-K-3D-185-38e</u>
Operator	Lease & Well No. Unit	S-T-R
		<u>30-025-28942</u>

and my recommendations are as follows:

OK

Yours very truly,

Chris Williams
Supervisor, District 1

/ed