

DATE IN 7/25/07	SUSPENSE	ENGINEER R-Ezeanyim	LOGGED IN 10/3/07	TYPE FOR	APP NO. PTD50727542368
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W. Jones

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

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

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

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

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

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

Print or Type Name

Signature

Title

Date

e-mail Address

R-9483

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENTOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

RECEIVED

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No 2007 SEP 20 AM 11 27
- II. OPERATOR: XTO Energy, Inc.
ADDRESS: 200 N. Loraine, Ste. 800 Midland, TX 79705
CONTACT PARTY: Kristy Ward PHONE: 432-620-6740
- 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: N/A R-7483 (Case 10260)
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. **Attached.**
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. **Attached.**
- VII. Attach data on the proposed operation, including: **Attached.**
- Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed;
 - Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 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. **Attached.**
- IX. Describe the proposed stimulation program, if any. **Attached.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Logs Attached.**
- *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. **Attached.**
- 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. **Attached.**
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **Attached.**
- 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: Kristy Ward TITLE: Regulatory Analyst
SIGNATURE: Kristy Ward DATE: September 20, 2007
E-MAIL ADDRESS: kristy_ward@xtoenergy.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

original

Side 2

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: **Attached.**

- (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. **Arrowhead Grayburg**
- (2) The injection interval and whether it is perforated or open-hole. **3589'-3860' - Perforated**
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. **Oil 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. **See Wellbore Diagram Attached.**
- (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.
Penrose 3440' (above) & San Andres 3860' (below)

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. **Attached.**

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: **Attached.**

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

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

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

VII. Data For Proposed Operation

1. Proposed average and maximum daily rate and volume of fluids to be injected.

Average daily rate of 1000 BWIPD
Maximum daily rate of 3000 BWIPD
2. System is closed.
3. Proposed average and maximum injection pressure:

Average injection pressure of 650 psi
Maximum injection pressure of 730 psi
4. The source of the injection fluids will be the produced water from existing Arrowhead Grayburg producers (see attached water analysis).
5. N/A

VIII. Geologic Data

Water injection will be into the Grayburg Formation at a depth of ~~3690'-3770'~~ 3639'. The Grayburg is a porous dolomite. This well was a producing oil well and is being converted to a water injection well to support oil production from surrounding wells. The top of the Grayburg is picked at 3639' and this well does not penetrate to the base of the formation which is known to be approximately 240' thick in this area.

IX. Proposed Stimulation Program

It is proposed to stimulate the existing perforations by pumping 3,000 gallons of 15% acid down tubing followed by 120 barrels of clean produced water mixed with 5 gallons of Champions RN-211.

X. Well Test Information

No Well Test information available due to well being TA'd for years. Logs are attached.

XI. Chemical Analysis

Water and Chemical Analysis are attached.

XII. Geological Statement

XTO has examined the available geologic and engineering data and we find no evidence that there are any open faults or other hydrologic connection between the Grayburg injection zone and any groundwater resources in this area.

XIII. Proof of Notice

Proof of Notice on Attached Page.

XIV. Surface Owner

Millard Deck Estate
c/o Harding & Carbone, Inc.
3903 Bellaire Blvd.
Houston, TX 77025

Offset Operators within ½ mile radius

Shown on Attached Page

I, Kristy Ward, do hereby certify that on September 4, 2007 the above and attached listed interested parties were mailed copies of the application to inject for the Arrowhead Grayburg Unit #241.

Kristy Ward
Regulatory

Offset Operators within ½ Mile Radius

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Chevron U.S.A. Inc.
15 Smith Road
Midland, TX 79705

ExxonMobil Corp.
P.O. Box 4358
Houston, TX 77210-4358

Range Operating New Mexico Inc.
777 Main Street, Ste. 800
Ft. Worth, TX 76102

BP America Production Co.
P.O. Box 1089
Eunice, NM 88231

GP II Energy Inc.
P.O. Box 50682
Midland, TX 79710

Apache Corporation
P.O. Box 1849
Eunice, NM 88231

XTO Energy, Inc.
200 N. Loraine, Ste. 800
Midland, TX 79701

INJECTION WELL DATA SHEET

OPERATOR: XTO Energy, Inc.WELL NAME & NUMBER: Arrowhead Grayburg Unit #241WELL LOCATION: 660' FSL & 2075' FWL N 18 22S 37E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: 12 1/2" Casing Size: 8 5/8"Cemented with: 750 sx. or ft³Top of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: Casing Size: Cemented with: sx. or ft³Top of Cement: Method Determined: Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 825 sx. or ft³Top of Cement: Surface Method Determined: CirculatedTotal Depth: 3807'Injection Interval3589' feet to 3860' Perforated

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" Lining Material: IPCType of Packer: BJ 1XPacker Setting Depth: 3541'Other Type of Tubing/Casing Seal (if applicable): N/A /Additional Data1. Is this a new well drilled for injection? Yes X NoIf no, for what purpose was the well originally drilled? Oil Producer2. Name of the Injection Formation: Grayburg3. Name of Field or Pool (if applicable): Arrowhead4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. See Wellbore Diagram

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

San Andres @ 3860' belowPenrose @ 3440' above



Water Analysis Report

9/4/2007

Address:

Customer: XTO Energy, Inc.

Attention: David Paschal

Lease: AGU

Formation:

Salesman: Mike Baker

CC:

Target Name: AGU 241

Sample Point: AGU 241

Sample Date: 08/22/2007

Test Date: 08/29/2007

Water Analysis(mg/L)

Calcium	48
Magnesium	58
Barium	
Strontium	
Sodium(calc.)	41
Bicarbonate Alkalinity	
Sulfate	131
Chloride	220
Resistivity	

Appended Data(mg/L)

CO2	
H2S	
Iron	1
Oxygen	

Additional Data

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/	358

Physical Properties

Ionic Strength(calc.	0.01
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks: Windmill

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-2.43	
Hemihydrate (Calcium Sulfate)	-2.16	
Anhydrite (Calcium Sulfate)	-2.68	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Lab Tech.: *for [signature]*



Water Analysis Report

9/14/2007

Address:

Customer: XTO Energy, Inc.

Attention: David Paschal

Lease: AGU

Formation:

Salesman: Mike Baker

CC:

Target Name: AGU Fresh Water

Sample Point: AGU Fresh Water

Sample Date: 09/13/2007

Test Date: 09/14/2007

Water Analysis(mg/L)

Calcium	152
Magnesium	117
Barium	
Strontium	
Sodium(calc.)	352
Bicarbonate Alkalinity	
Sulfate	593
Chloride	715
Resistivity	

Appended Data(mg/L)

CO2	
H2S	
Iron	2
Oxygen	

Additional Data

Specific Gravity	
Total Dissolved Solids(Mg/L)	
Total Hardness(CaCO3 Eq Mg/	860

Physical Properties

Ionic Strength(calc.)	0.05
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	

Dew Poin	
Lead	
Zinc	

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine(mg/L)	

Remarks:

--

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)		
Gypsum (Calcium Sulfate)	-1.49	
Hemihydrate (Calcium Sulfate)	-1.26	
Anhydrite (Calcium Sulfate)	-1.74	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Lab Tech.:

Advertising Receipt

REC'D / MIDLAND
AUG 20 2007

Hobbs Daily News-Sun

201 N Thorp

P O Box 850

Hobbs, NM 88241-0850

Phone: (505) 393-2123

Fax: (505) 397-0610

ATTN: KRISTY WARD
XTO ENERGY INC.
200 LORAIN, SUITE 800
MIDLAND, TX 79701

Cust#: 01102696-000

Ad#: 67545470

Phone: (432)682-8873

Date: 08/13/07

Ad-taker: C2

Salesperson: 05

Classification: 672

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
07 07 Daily News-Sun	08/15/07	08/15/07	1	24.18		24.19
Bold						1.00
Affidavit for legals						3.00

Payment Reference:

LEGAL NOTICE
August 15, 2007

Notice of Application for Fluid Injection Well Permit

XTO Energy, Inc., 200 N. Loraine, Ste. 800, Midland Texas 79701, Attention: Kristy Ward - 432-620-6740, has applied for a permit to inject fluid into a formation which is productive of oil and gas. The applicant proposes to inject fluid at the location of Section 18, Township - 22S, Range - 37E. Fluid will be injected into the Grayburg formation at a depth interval from 3589', with a maximum injection rate of 3000 BWIPD and a maximum injection pressure of 730 psi.

All interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days.
#23462

Total: □ 28.19

Tax: 1.89

Net: 30.08

Prepaid: 0.00

Total Due 30.08

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 1
_____ weeks.

Beginning with the issue dated

August 15 2007

and ending with the issue dated

August 15 2007

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 15th day of

August 2007
Dora Montz

Notary Public.

My Commission expires
February 07, 2009
(Seal)



OFFICIAL SEAL
DORA MONTZ
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires: _____

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
August 15, 2007

Notice of Application for Fluid Injection Well Permit

XTO Energy, Inc., 200 N. Loraine, Ste. 800, Midland Texas 79701, Attention: Kristy Ward - 432-620-6740, has applied for a permit to inject fluid into a formation which is productive of oil and gas. The applicant proposes to inject fluid at the location of Section 18, Township - 22S, Range - 37E. Fluid will be injected into the Grayburg formation at a depth interval from 3589', with a maximum injection rate of 3000 BWIPD and a maximum injection pressure of 730 psi.

All interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days.
#23462

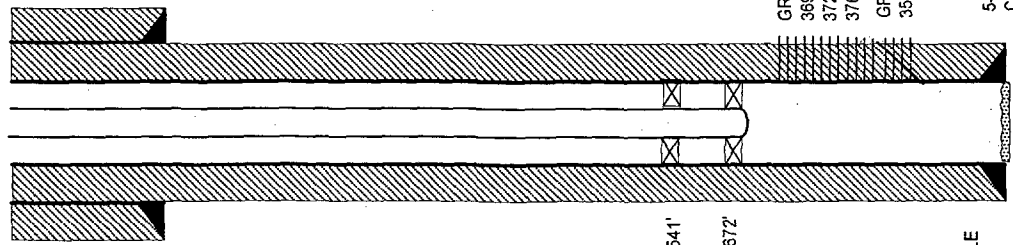
01102696000 67545470

XTO ENERGY INC.
200 LORAIN, SUITE 800
MIDLAND, TX 79701

Injection Well

AGU # 241 WELLBORE DIAGRAM

ELEV GL: 3425'
KB to GL: 13.5'
DF to GL: 12.5'



12 1/2" HOLE

- 1-2X 2 3/8", 4.7# J-55 IPC TBG SUB,
- 109 JTS 2 3/8", 4.7# J-55 IPC TBG
- 1-BJ 1X PKR @ 3541'
- 4 JTS 2 3/8", 4.7# J-55 RITE RAP TBG
- 1-1.78" PN
- 1-BJ 1X PKR @ 3672'

BJ 1X PKR @ 3541'

BJ 1X PKR @ 3672'

7 7/8" HOLE

PB: 3790
TD: 3807'

DATA
LOCATION: 660' FSL& 2075' FWL, SEC: 18, T-22S, R-37E
COUNTY/STATE: LEA, NEW MEXICO
FIELD: VACUUM YATES
FORMATION: GRAYBURG
SPUD DATE: 04/21/92
API #: 30-025-31535
IP: 5 BO, 29 BW, 13 MCF,
PRODUCTION METHOD: BEAM PMP TUBING STRING: 2 7/8"

HISTORY

04/21/92 SPUD WELL. DRILLED TO 3807' TD.
SET 8-5/8 CSG @ 1175' W/ 750 SX. CIRC 84 SX TO SURF. (12 1/4" HOLE) DRILL TO 3785' RUN OH LOGS. DRILL TO TD @ 3807' SET 5-1/2" 15.5# K-55 CSG @ 3807 W/ 825 SX. CIRC 80 SX TO SURF. (7 7/8" HOLE) DRILL OUT CMT TO 3800' (PBTD) LOG WELL.
05/07/92: PERF 3783'-3786' ZONE #4 (2 SPF). ACID W/ 150 GALS NEFE HCL. SWAB, REC 18 BW IN 5 RUNS. PERFS F/ 3676'-79', 3683'-94', 3700'-06', 3712'-16', 3720'-22', 3727'-30' (2 JHPF) ACIDIZE PERFS (3676'-3730') W/ 800 GALS 15% NEFE HCL. SWAB PERFS 3676'-3786' REC 29 BW IN 7 RUNS. PERF F/ 3589'-96', 3602'-14', 3620'-26', 3632'-40', 3654'-56', 3667'-69' (ZONE 1) W/ 2 JHPF) ACIDIZE PERFS 3589'-3669' W 750 GALS 15% NEFE HCL. SWAB PERFS 3589'-3786' REC 3 BO, 86 BW IN 24 HRS. RIH W/ PROD EQUIPMENT AND T/O TO PROD.
05/19/92: TEST PMP 4 BOPD, 10 MCFPD, 23 BWPD.
08/20/01: SET CIBP @ 3546', TA WELL
12/19/06: RETURN WELL TO PROD. RIH W/ 4 3/4" BIT, TAG CIBP @ 3545', DRILL UP AND JPUSH TO BTM @ 3800'. RIH W/ CIRC SET @ 3531', PMP 200 SX CL "C" CMT, REV OUT 50 SX. RIH W/ 4 3/4" BIT. DRL OUT CMT & CIRC TO 3790'. CIRC HOLE CLEAN. PERF W/ 6 JHPF F/ 3690'-99' (54 HOLES), 3705'-10' (30 HOLES), 3714'-18' (24 HOLES), 3721'-38' (42 HOLES), 3730'-33' (18 HOLES), 3741'-45' (24 HOLES) & 3760'-70' (60 HOLES) ACIDIZED W/ 3000 GALS 20% HEATED ACID IN 3 STG. MTP 810#, MINTP. 185#, MTR 1.5 BPM, MINTP 1 BPM, ATR 1 BPM @ 263#. ISIP-219#. SWAD BACK 100% WTR. PMP 4000 GALS 20% HCL OVER PERFS (3690'-3770') AIR 1.1 BPM, MTP 358#, MINTP-255#, ISIP-325#. SWAB BACK 100% WTR. RIH W/ INJ PKRS AND WAIT ON PERMIT.

GRAYBURG PERF W/ 6 JHPF
3690-99 3705'-10' 3714'-18'
3721'-28' 3730'-33' 3741'-45'
3760'-70'
GRAYBURG PERF (PERFD 1992)
3589-3786 SOZD W/ 200 SX (12/21/01)
5-1/2" 14# CSG @ 3807'
CMTD W/ 825 SX, CIRC.

Injection Well

CURRENT WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 241

FORMATION: Grayburg

LOC: 660' FSL & 2075' FWL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 18
COUNTY: Lea
STATE: NM

GL: 3425'
KB to GL: 13.5'
DF to GL: 12.5'

CURRENT STATUS: SI Producer
API NO: 30-025-31535
CHEVNO: OQ-9518

8-5/8" OD, 23#/ft, M-50
Surf. Pipe set @ 1175' w/
750 sxs cmt., 85 sxs to surf.
12 1/2" hole

Tbg Details:

KB	13.50
1 jt 2" 2 3/8" IPC Tbg Sub	2.00
109 jts. 2 3/8" IPC Tbg	3525.50
1 BJ 1X pkr	1.24
4 jts 2 3/8" rite wrap tbg	125.96
1 1.78" profile nipple	1.35
1 On/Off tool	
1 BJ 1X pkr	2.70

Landed Bottom Pkr at 3672.25'

BJ 1X Pkr @ 3541'

4 jts rite wrap
ext/int coated

BJ 1X Pkr @ 3672'

3690-99
3705-10
3714-18

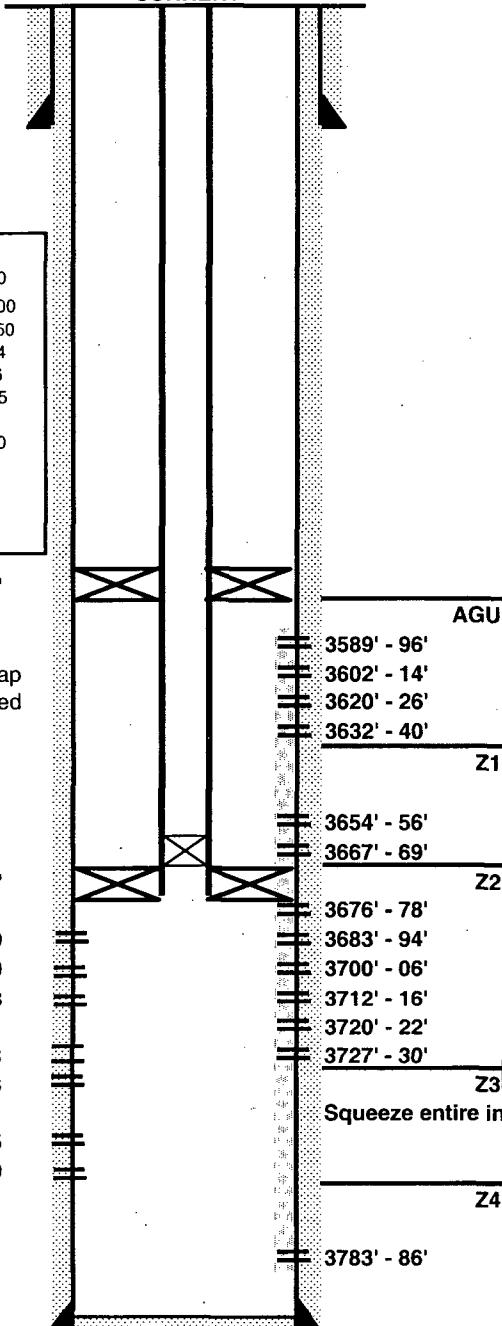
3721-28
3730-33

3741-45
3760-70

5-1/2" OD, 15.5#/ft., K-55
Set @ 3807' w/ 825 sxs cmt.
Circ 80 sxs to surface.
7 7/8" hole size

PBTD @ 3800'
TD @ 3807'

CURRENT



Date Completed: 05-16-92

Initial Injection: 5 BOPD / 13 MCFGPD / 29 BWPD

Initial Formation: Grayburg From: 3589' To: 3786'

Completion Data:

09-09-92 Drill to 3785'. Log AWS DLL-MLL-GR, ZDEN-CNL-GR-CAL (log'r. TD @ 3789'). Deepen to 3807' & run 5-1/2" csg. DO cmt to 3800' (PBTD) & circ hole clean. Perf 3783'-86' (Zn 4) w/ 2 SPF. Selectively ACDZ (PPI pkr) w/ 150 gals. 15% NEFE HCL. Swb Rec 18 BW / 5 runs in 5 hrs.; FER 1 BPH. Selectively perf 3676' - 3730' (Zn 2) w/ 2 SPF. Selectively ACDZ (PPI pkr) w/ 800 gals. 15% NEFE HCL. Swb 3676'-3786' (Zn's 2 & 4) Rec 29 BW (trace oil) / 7 runs in 3.5 hrs.; FER 7 BPH. Selectively perf 3589' - 3669' (AGU - Zn 1) w/ 2 SPF. Selectively ACDZ (PPI pkr) w/ 756 gals. 15% NEFE HCL. Swb 3589'-3786' (AGU - Zn 4) Rec tti 3 BO + 86 BW / 24 runs in 8 hrs.; FER 5-10 BPH. TIH w/ prod tbg & TO to production.
05-19-92 Test pump 4 BOPD + 10 MCFGPD + 23 BWPD.

Workover History:

08-20-01 Set CIBP @ 3546'. MIT. TA Well.
12-19-06 RWTP - Squeeze all existing perms with 200 sx Cl C w/ 2% CaCl2. Reperf 3690-99, 3705-10, 3714-18, 3721-28, 3730-33, 3741-45, 3760-70. 6 JSPF, 60 deg phasing. Acidize intervals with 3,000 gals 20% NEFE Acid heated to 150 degrees. Swabbed dry after 40 bbls. SI 1 hour - 5 BLW entry. No oil cut or gas. Acidize with additional 4,000 gals 20% NEFE Acid. Swabbed total of 102 BLW with 0% oil and small gas kick. Ran bottom packer assembly and set at 3672. on/off tool, 4 jts of rite-rap (ext/int coated) 2-3/8" 4.7#, J-55, EUE, 8rd tbg, top 5-1/2" pkr assembly, 109 jts of 2-3/8", 4.7#, J-55, EUE, 8rd, new IPC tbg. RWTP Failed. Set well up to CTI based on discussion with Keith Kiser in FW Reservoir.

Additional Data:

T/Queen @ 3328'
T/Penrose @ 3440'
T/AGU @ 3589'
T/Grayburg Zone 1 @ 3639'
T/Grayburg Zone 2 @ 3672'
T/Grayburg Zone 3 @ 3730'
T/Grayburg Zone 4 @ 3770'
T/Grayburg @ 3820'
T/San Andres @ 3860'

Squeeze entire interval and reperforate - 12/19/06

AOR 1/2

AOR (DIVISION GENERATED)

Arrowhead Unit Well No. 241																					
XTO Energy Inc.																					
3002531535	ARROWHEAD GRAYBURG UNIT 241																			21-Apr-92	
Injection Wells																					
API	WELL NAME	FTG NS	NS CD	FTG EW	EW CD	SDIV	Sec	Tsp	Rge	Dist	TVD DEPTH	OCGRID CDE	PROPERTY	LAND TYPE	WELL TYPE	OCID	NBR	COMPLS	ACRES	SPUD DATE	
3002525616	BLINERY DRINKARD 018	1150 S		2250 W		N	18 225	37E		520	4998	19174	9604 S		S	N			1	40	22-Aug-77
3002531632	ARROWHEAD GRAYBURG UNIT 240	660 S		775 W		4	18 225	37E		1300	3836	5380	300649 S		I	M			1	40	
3002531740	ARROWHEAD GRAYBURG UNIT 229	2256 N		2062 E		G	18 225	37E		2626	3815	5380	300649 S		I	G			1	40	
3002525878	ARROWHEAD GRAYBURG UNIT 233	2310 S		1880 W		K	18 225	37E		1661		5380	300649 S		I	K			1	40	
3002531329	ARROWHEAD GRAYBURG UNIT 242	560 S		1980 E		O	18 225	37E		1229	3980	5380	300649 S		I	O			1	40	
3002510369	NEW MEXICO M STATE 042	1650 N		892 W		2	19 225	37E		2595		8359	17571 S		I	E			1	40	
3002510358	ARROWHEAD GRAYBURG UNIT 246	660 N		1980 W		C	19 225	37E		1323		5380	300649 P		I	C			1	40	
Production Wells																					
API	WELL NAME	FTG NS	NS CD	FTG EW	EW CD	SDIV	Sec	Tsp	Rge	Dist	TVD DEPTH	OCGRID CDE	PROPERTY	LAND TYPE	WELL TYPE	OCID	NBR	COMPLS	ACRES	SPUD DATE	
3002510359	ARROWHEAD GRAYBURG UNIT 245	660 N		1980 E		B	19 225	37E		1801	4500	5380	300649 S		O	B			1	40	07-Jan-65
3002510362	ARROWHEAD GRAYBURG UNIT 247	660 N		660 W		1	19 225	37E		1935	3430	5380	300649 S		O	D			1	40	27-Oct-40
3002531246	ARROWHEAD GRAYBURG UNIT 228	2266 N		1793 W		F	18 225	37E		2371	3795	5380	300649 S		O	F			1	40	24-Jan-92
3002509015	MCDONALD WN STATE 021	330 N		330 E		A	24 225	36E		2601	3716	778	29452 S		G	A			1	160	
3002531610	ARROWHEAD GRAYBURG UNIT 234	1880 S		750 W		3	18 225	37E		1681	3857	5380	300649 P		O	L			1	40	03-Jul-92
3002525670	A L CHRISTMAS NCT C 016	810 S		710 W		4	18 225	37E		1373		5380	300650 P		O	M			2	80	
3002525657	A L CHRISTMAS NCT C 015	1980 S		710 W		3	18 225	37E		1899		5380	300650 P		O	L			1	40	
3002537286	ARROWHEAD GRAYBURG UNIT 408	2300 N		1080 W		2	18 225	37E		2524	4594	5380	300649 P		O	E			1	36.99	07-Sep-05
3002526015	NEW MEXICO M STATE 049	2160 S		2310 E		J	18 225	37E		1747	6730	227588	301551 S		O	J			2	80	30-Jul-78
3002537613	NEW MEXICO M STATE 052	1420 S		2310 E		J	18 225	37E		1174	0	227588	301551 S		O	J			1	40	06-Mar-06
Plugged Wells																					
API	WELL NAME	FTG NS	NS CD	FTG EW	EW CD	SDIV	Sec	Tsp	Rge	Dist	TVD DEPTH	OCGRID CDE	PROPERTY	LAND TYPE	WELL TYPE	OCID	NBR	COMPLS	ACRES	SPUD DATE	
3002526613	STATE PA 005	780 S		1980 W		N	18 225	37E		153		873	26487 S		G	N			1	80	
3002510343	STATE PA 002	660 S		1980 W		N	18 225	37E		95	3724	495	205 S		O	N			1	40	
3002510353	NEW MEXICO M STATE 002	660 S		1980 E		O	18 225	37E		1225	0	214263	30041 S		O	O			1	40	
3002510342	STATE PA 001	1980 S		1980 W		K	18 225	37E		1323	205 S	495	205 S		O	K			1	40	
3002510349	A L CHRISTMAS NCT C 006	660 S		660 W		4	18 225	37E		1415	0	214263	30041 S		O	M			1	40	
3002537692	NEW MEXICO M STATE 053	330 S		1650 E		O	18 225	37E		1590	0	227588	301551 S		O	O			2	40	
3002510352	ARROWHEAD GRAYBURG UNIT 232	1980 S		1980 E		J	18 225	37E		1801		4323	2571 S		O	J			1	40	
3002510348	A L CHRISTMAS NCT C 005	2310 S		330 W		3	18 225	37E		2402	0	214263	30041 S		O	L			1	40	
3002508905	MCDONALD STATE AC 2 020	990 S		330 E		P	13 225	36E		2428	3750	14021	6436 S		O	P			1	40	
3002510354	NEW MEXICO M STATE 003	660 S		660 E		P	18 225	37E		2545	0	214263	30041 S		O	P			1	40	

AOR 2/2

Arrowhead Unit Well No. 241									
XTO Energy Inc.									
3002531535	ARROWHEAD GRAYBURG UNIT 241	TA	22 S	37 E				1998-04	0
Injection Wells									
API	WELL NAME	COMPL STATION	PRODUCING POOL NAME	TspN	TspD	Rgen	RgeD	WATER INJ 20	WATER INJ
3002525616	BLINEBRY DRINKARD 018	Active	ARROWHEAD GRAYBURG UNIT 240	22 S	37 E			2460318	5737721
3002531632	ARROWHEAD GRAYBURG UNIT 240	Active	ARROWHEAD GRAYBURG UNIT 240	22 S	37 E			189724	253151
3002531740	ARROWHEAD GRAYBURG UNIT 229	Active	ARROWHEAD GRAYBURG UNIT 229	22 S	37 E			79819	316132
3002525878	ARROWHEAD GRAYBURG UNIT 233	Active	ARROWHEAD GRAYBURG UNIT 233	22 S	37 E			56563	229283
3002531329	ARROWHEAD GRAYBURG UNIT 242	Active	ARROWHEAD GRAYBURG UNIT 242	22 S	37 E			34404	56968
3002510369	NEW MEXICO N STATE 042	Active	NEW MEXICO N STATE 042	22 S	37 E			20403	61362
3002510358	ARROWHEAD GRAYBURG UNIT 246	Active	ARROWHEAD GRAYBURG UNIT 246	22 S	37 E			7393	21714
Production Wells									
API	WELL NAME	COMPL STATION	PRODUCING POOL NAME	TspN	TspD	Rgen	RgeD	WATER INJ 20	WATER INJ
3002510359	ARROWHEAD GRAYBURG UNIT 245	Active	ARROWHEAD GRAYBURG UNIT 245	22 S	37 E				
3002510362	ARROWHEAD GRAYBURG UNIT 247	Active	ARROWHEAD GRAYBURG UNIT 247	22 S	37 E				
3002531246	ARROWHEAD GRAYBURG UNIT 228	Active	ARROWHEAD GRAYBURG UNIT 228	22 S	37 E				
3002509015	MCDONALD W N STATE 021	Active	ARROWHEAD GRAYBURG UNIT 228	22 S	37 E				
3002531610	ARROWHEAD GRAYBURG UNIT 234	Active	JALMATI TAN-YATES-7 RYRS (GAS)	22 S	37 E				
3002525670	A L CHRISTMAS NCT C 016	Active	ARROWHEAD GRAYBURG UNIT 234	22 S	37 E				
3002525657	A L CHRISTMAS NCT C 015	Active	EUMONT-YATES-7 RYRS-QUEEN (OIL)	22 S	37 E				
3002537286	ARROWHEAD GRAYBURG UNIT 408	Active	BLINEBRY OIL AND GAS (OIL)	22 S	37 E				
3002526015	NEW MEXICO N STATE 049	Active	ARROWHEAD GRAYBURG UNIT 408	22 S	37 E				
3002537613	NEW MEXICO N STATE 052	New (Not dnt)	BLINEBRY OIL AND GAS (OIL)	22 S	37 E				
Plugged Wells									
API	WELL NAME	COMPL STATION	PRODUCING POOL NAME	TspN	TspD	Rgen	RgeD	WATER INJ 20	WATER INJ
3002526613	STATE PA 005	TA	ARROWHEAD GRAYBURG UNIT 245	22 S	37 E				
3002510343	STATE PA 002	Plugged	ARROWHEAD GRAYBURG UNIT 247	22 S	37 E				
3002510353	NEW MEXICO N STATE 002	Plugged	ARROWHEAD GRAYBURG UNIT 228	22 S	37 E				
3002510342	STATE PA 001	Plugged	ARROWHEAD GRAYBURG UNIT 228	22 S	37 E				
3002510349	A L CHRISTMAS NCT C 006	Plugged	ARROWHEAD GRAYBURG UNIT 228	22 S	37 E				
3002537692	NEW MEXICO N STATE 053	New (Not dnt)	ARROWHEAD GRAYBURG UNIT 233	22 S	37 E				
3002510352	ARROWHEAD GRAYBURG UNIT 232	Plugged	ARROWHEAD GRAYBURG UNIT 232	22 S	37 E				
3002510348	A L CHRISTMAS NCT C 005	Plugged	ARROWHEAD GRAYBURG UNIT 232	22 S	37 E				
3002508905	MCDONALD STATE AC 2 020	Plugged	ARROWHEAD GRAYBURG UNIT 246	22 S	37 E				
3002510354	NEW MEXICO N STATE 003	Plugged	ARROWHEAD GRAYBURG UNIT 246	22 S	37 E				

Arrowhead Unit Well #241 - 1/2 Mile Radius List									
Lease Name	Well#	Depth	Location	Field	Operator	Status	Spud	Compl	API#
XTO ENERGY INC.									
BLINE-DRINKARD SYS WD-N	✓ 18	4998	S:18, T:22S, R:37E	SWP-184	RICE OPERATING	Inj-Active		12/17/1977	30-025-25616
AL CHRISTMAS NCT C	✓ 5	3745	S:18, T:22S, R:37E	ARROWHEAD	CHEVRON	Oil-PA 5/25/81	5/3/1940	6/26/1940	30-025-10348
AL CHRISTMAS NCT C	✓ 6	3740	S:18, T:22S, R:37E	ARROWHEAD	CHEVRON	Oil-PA 5/19/77	8/10/1940	9/1/1940	30-025-10349
AL CHRISTMAS NCT C	✓ 15	6700	S:18, T:22S, R:37E	BLINEBRY OIL AND GAS (OIL)	XTO ENERGY, INC	Oil-Active	12/14/1982	12/29/1982	30-025-25657
AL CHRISTMAS NCT C	✓ 15	6700	S:18, T:22S, R:37E	DRINKARD	XTO ENERGY, INC	Oil-Active	10/1/1977	11/8/1977	30-025-25657
AL CHRISTMAS NCT C	✓ 15	6700	S:18, T:22S, R:37E	BLINEBRY OIL AND GAS (OIL)	XTO ENERGY, INC	Oil-Active	12/14/1982	12/29/1982	30-025-25657
AL CHRISTMAS NCT C	✓ 16	6702	S:18, T:22S, R:37E	EUMONT	XTO ENERGY, INC	Oil-Active			30-025-25670
AL CHRISTMAS NCT C	✓ 16	6702	S:18, T:22S, R:37E	BLINEBRY OIL AND GAS (OIL)	XTO ENERGY, INC	Oil-Active	9/1/1986	10/1/1986	30-025-25670
AL CHRISTMAS NCT C	✓ 16	6702	S:18, T:22S, R:37E	DRINKARD	XTO ENERGY, INC	Oil-Active			30-025-25670
AL CHRISTMAS NCT C	✓ 16	6702	S:18, T:22S, R:37E	TUBB OIL AND GAS (OIL)	XTO ENERGY, INC	Oil-Active	10/14/1977	4/4/1978	30-025-25670
AL CHRISTMAS NCT C	✓ 16	6702	S:18, T:22S, R:37E	EUMONT	XTO ENERGY, INC	Oil-Active			30-025-25670
ARROWHEAD GRAYBURG UNIT	✓ 228	3795	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-Active	12/4/1992	4/6/1992	30-025-31246
ARROWHEAD GRAYBURG UNIT	✓ 229	3815	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Inj-Active	10/19/1992	2/3/1993	30-025-31740
ARROWHEAD GRAYBURG UNIT	✓ 232	3809	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-PA 11/1/06	4/12/1940	5/20/1940	30-025-10352
ARROWHEAD GRAYBURG UNIT	✓ 234	3857	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-Active	7/3/1992	9/16/1992	30-025-31610
ARROWHEAD GRAYBURG UNIT	✓ 240	3836	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Inj-Active	7/16/1992	9/1/1992	30-025-31632
ARROWHEAD GRAYBURG UNIT	✓ 242	3980	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Inj-Active	9/6/1991	11/4/1991	30-025-31329
ARROWHEAD GRAYBURG UNIT	✓ 245	3813	S:19, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-Active	3/2/1944	4/1/1944	30-025-10359
ARROWHEAD GRAYBURG UNIT	✓ 246	3821	S:19, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Inj-PA 3/20/07	10/28/1973	11/16/1973	30-025-10358
ARROWHEAD GRAYBURG UNIT	✓ 247	3900	S:19, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-Active	10/25/1940	11/16/1940	30-025-10362
ARROWHEAD GRAYBURG UNIT	✓ 408	4515	S:19, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC	Oil-Active	9/8/2005	3/16/2006	30-025-37286
NEW MEXICO M STATE	✓ 2	3720	S:18, T:22S, R:37E	ARROWHEAD	EXXON CORP	Oil-PA	5/3/1940	5/22/1940	30-025-10353
NEW MEXICO M STATE	✓ 3	3710	S:18, T:22S, R:37E	ARROWHEAD	EXXON CORP/HUMBLE OIL & REFINING	Oil-PA 11/28/50	5/22/1940	7/27/1940	30-025-10354
NEW MEXICO M STATE	✓ 42	3770	S:18, T:22S, R:37E	LANGLIE MATTIX	G P II ENERGY INC	Inj-Active	5/23/1961	6/7/1961	30-025-10369
NEW MEXICO M STATE	✓ 49	6730	S:18, T:22S, R:37E	EUNICE	RANGE OPERATING NEW MEXICO	Oil-Active	2/26/2006	3/15/2006	30-025-26015
NEW MEXICO M STATE	✓ 52	6821	S:18, T:22S, R:37E	DRINKARD	RANGE OPERATING NEW MEXICO	Oil-Active	3/7/2006	4/17/2006	30-025-37613
NEW MEXICO M STATE	✓ 53	6864	S:18, T:22S, R:37E	DRINKARD	RANGE OPERATING NEW MEXICO	Oil-Active	8/23/2006	9/18/2006	30-025-37692
STATE PA #4 / AGU #233	✓ 233	6703	S:18, T:22S, R:37E	ARROWHEAD	XTO ENERGY, INC.	Inj-Active	3/25/1978	6/8/1978	30-025-25878
STATE MCDONALD	✓ 21	3716	S:18, T:22S, R:37E	Calmat	BP AMERICA PROD.	Gas-Active	4/3/1941	6/12/1961	30-025-09015
STATE PA	✓ 1	3724	S:18, T:22S, R:37E	EUMONT	APACHE CORP	Gas-Inactive	1/1/1801	1/1/1801	30-025-10342
STATE PA	✓ 1	3724	S:18, T:22S, R:37E	ARROWHEAD	APACHE CORP	Oil-Inactive	3/27/1940	4/13/1940	30-025-10342
STATE PA	✓ 2	3724	S:18, T:22S, R:37E	ARROWHEAD	APACHE CORP	Oil-Inactive	7/4/1940	7/21/1940	30-025-10343
STATE PA	✓ 5	3600	S:18, T:22S, R:37E	EUMONT	APACHE CORP	Gas-TA 2/28/02	2/14/1980	4/6/1980	30-025-26613

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McDonald State AC2

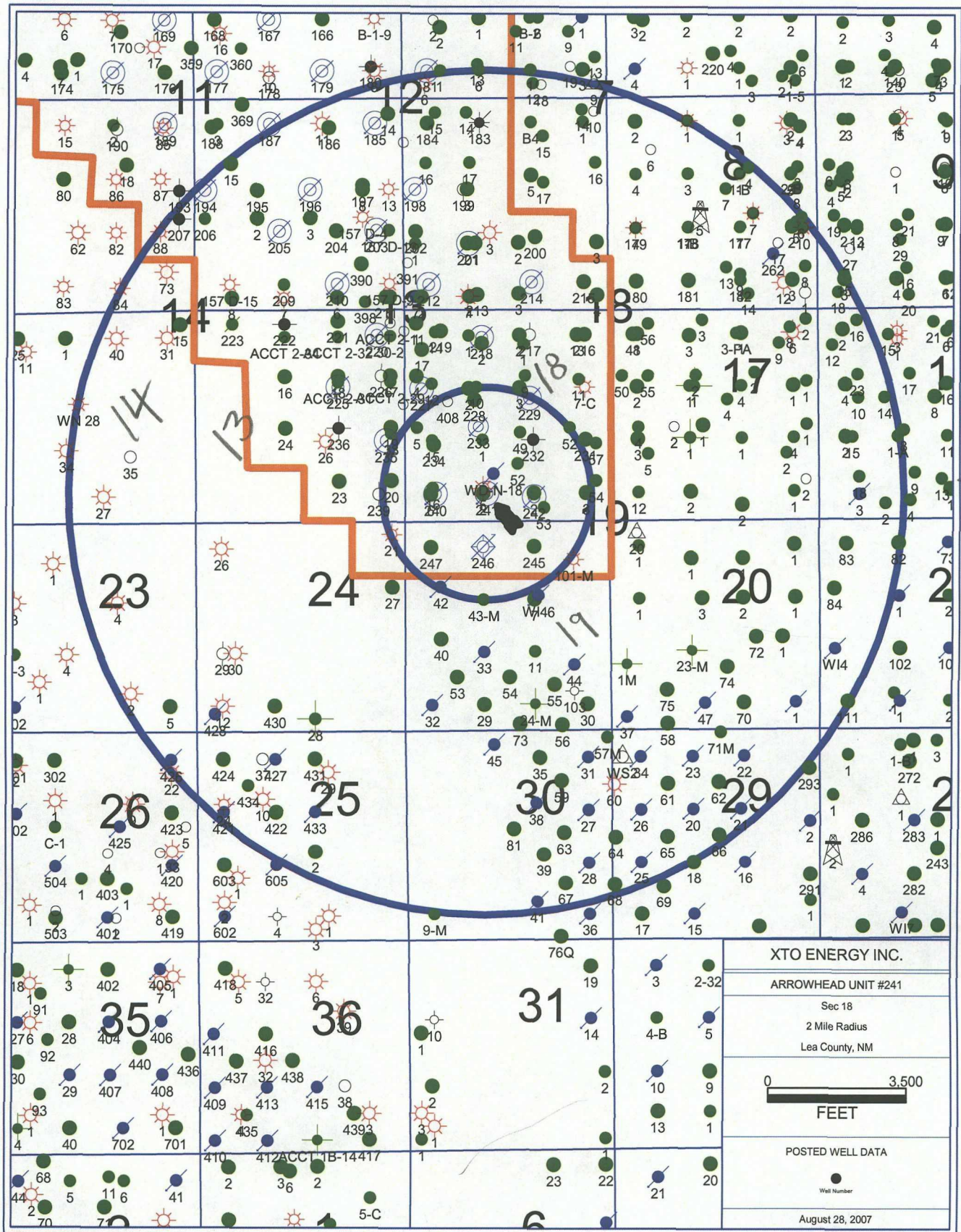
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22/36

22/37



RICE OPERATING CO.

BLINEBRY-DRINKARD SWD # N-18
1100' FSL & 2250' FWL, SEC 18, T22S, R37E,
LEA CO.
API: 30-025-25616

GL: 3419'
KB: 3324"

12 1/4" HOLE

9 5/8", 36# CSG SET @ 315' W/ 200
SX CL "C" CMT, CIRC. TO SURF.

8 3/4" HOLE

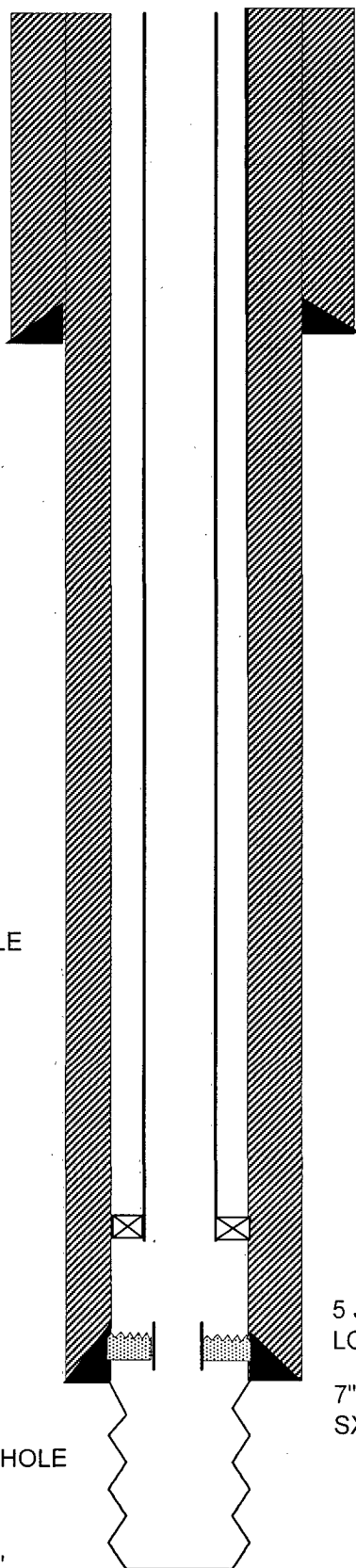
5 1/2" 15.5# IPC TBG @ 3646.63
7" X 4 1/2" FULL BORE CSG PKR @
3652.18'

5 JTS 5 1/2" TBG STUCK @ 3661'-3882' W/ COLLAR
LOOKING UP.

6 1/4" HOLE

7", 20# CSG SET @ 3900'. CMT W/1600
SX CL "C"

TD: 4998'



CHEVRON U.S.A.

P&A"D 5/28/81

A.L. CHRISTMAS (NCT-C) #5
UNIT L, 2310' FSL & 330' FWL, SEC 18, T22S, R37E
LEA CO.
API: 30-025-10348

DF: 3445'

13 3/4" HOLE

9 5/8", 25.7# CSG SET @ 290' W/
200 SX CMT,

Spot plug f/
1250'-Surf
w/ 125 sx
CL "C" Neat

7 7/8" HOLE

5 1/2", 14# CSG SET @ 3635' CMT W/
200 SX, TOC ?

TD: 3475'

CHEVRON U.S.A.

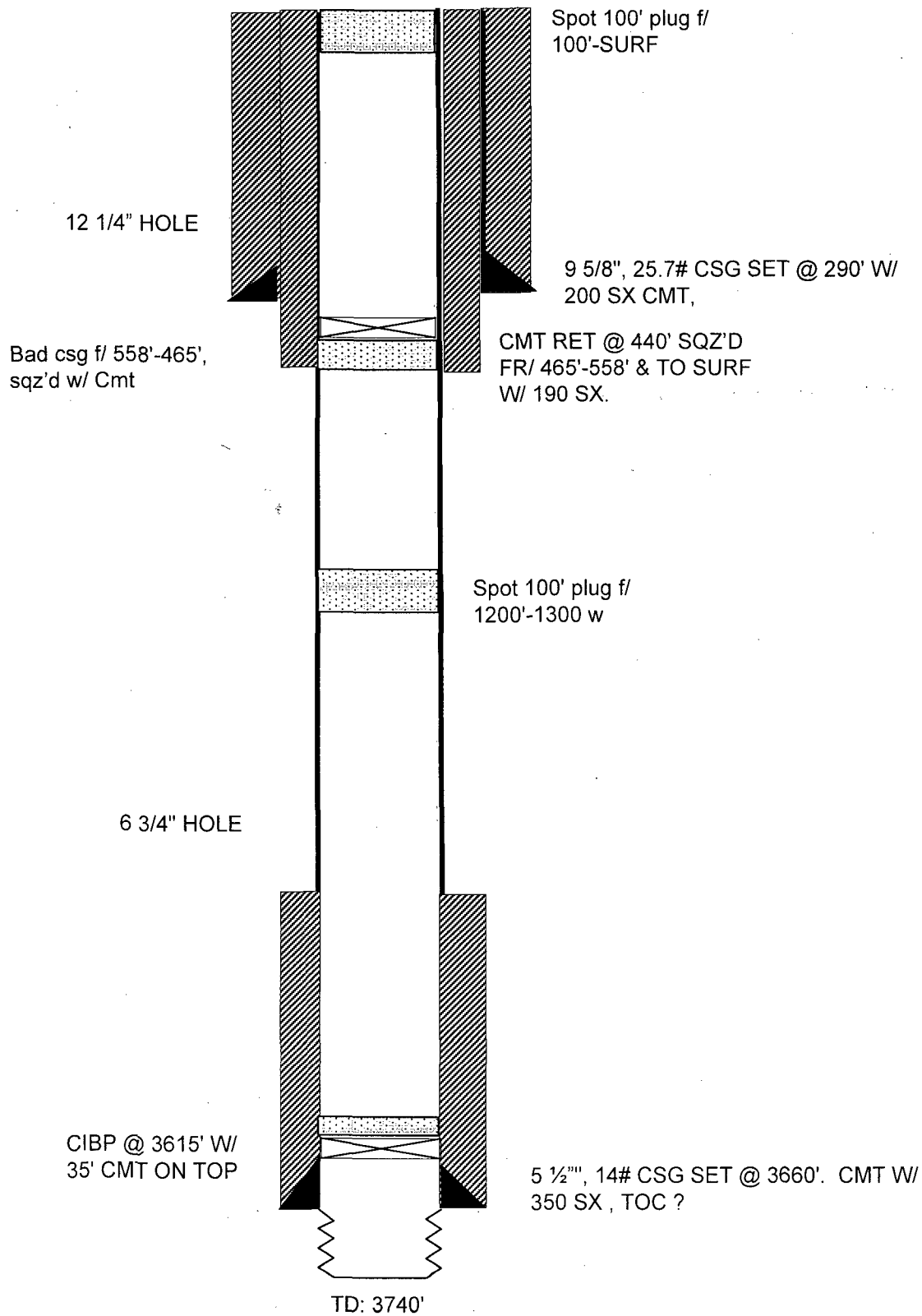
P&A"D 5/19/77

A.L. CHRISTMAS C #6

UNIT M, 660' FSL & 660' FWL, SEC 18, T22S, R37E

LEA CO.

API: 30-025-10349



A.L. CHRISTMAS NCT C #15

WELLBORE DIAGRAM

ELEV: KB:
GL: 3435'

DATA

LOCATION: 1980' FSL & 710' FWL SEC 18, T-22-S, R-37E
COUNTY/STATE: LEA COUNTY, NM
FIELD: DRINKARD
FORMATION: BLINBERY
SPUD DATE: 10/01/77
INITIAL IP: P 46 BO, 20 BW, 24 HR TST. GRAVITY 39.4 (11/8/77)
API #: 30-025-25657
CURRENT PRODUCTION METHOD: ROD PUMPED

HISTORY

10/01/77: SPUD WELL. DRL 12-1/4" HOLE TO 1195'. RAN 31 JTS 8 5/8" 24# K-55 ST&C CSG. SET @ 1189'. CMT W/500 SX CL C. CMT CIRC.

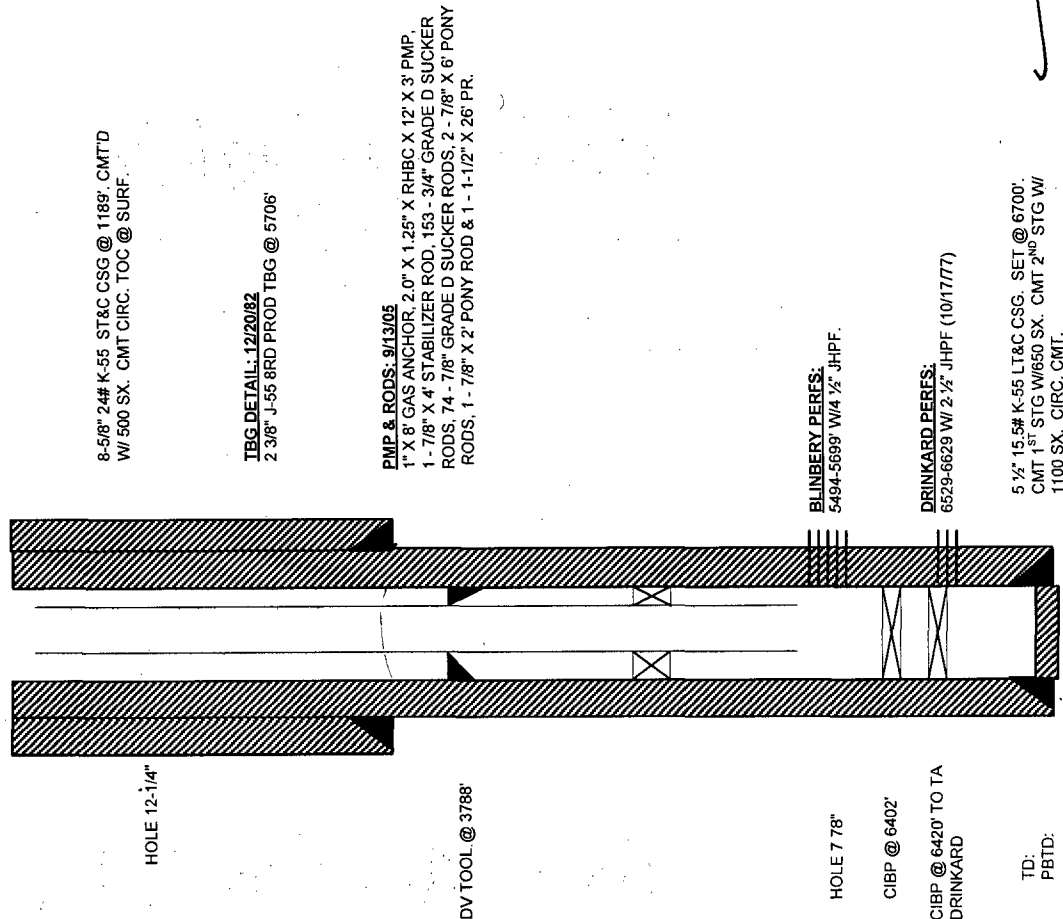
10/17/77: CONT DRLG. REACHED TD OF 7 7/8" HOLE @ 6700'. RAN 172 JTS 5 1/2" 15.5# K-55 LT&C CSG. SET @ 6700'. DVT TOOL @ 3788'. CMT 1ST STG W/450 SX CL C + 200 SX HOWCO THICKSET. CMT CIRC. CMT 2ND STG W/1200 SX CL C. CMT CIRC.

RUN OH LOGS. PERF 5 1/2" CSG W/ 2 1/2" JHPF @ 6529-31'. 6572-74'. 6599-601'. ACZDZ W/1600 GALS 15% NEA IRON STAB INHIB ACID. RIH W/2 3/8" TBG & SET @ 6450'.

12/10/82: POH W/RODS & PMP. POH W/ 2 3/8" TBG. SET CIBP @ 6420 TO TA DRINKARD. PERF 5494-96'. 5511-13'. 5548-50'. 5570-72'. 5603-05'. 5622-24'. & 5697-99' W/ 4 1/2" JHPF. GIH W/TRTG PKR & SN ON 2 7/8" N-80 WS. SPOT 15% NEFE HCL ACID F/5699-5394'. PULL PKR TO 5394' & SET @ 5394'. ACZDZ W/2800 GALS @ 15% HCL SLICK. 72 RCNB'S. FRAC W/2100 GALS 15% HCL SLICK. 59.500 GALS GEL WTR, 73.500# 20/40 SD (48) RCNB'S, RS & ACID FLAKES. RUN PROD EQUIP.

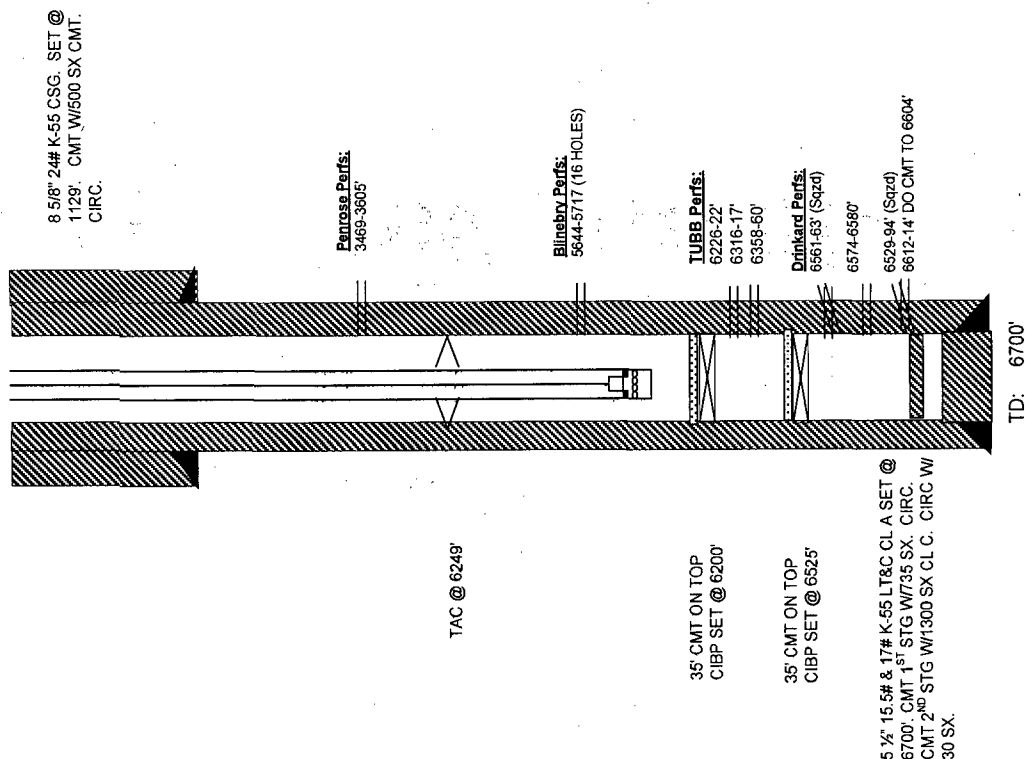
12/30/82: POH W/PROD EQUIP. SET CIBP @ 6402'. PERF 5494-96'. 5511-13'. 5548-50'. 5570-72'. 5603-05'. 5622-24'. 5697-99' W/ 4 1/2" JHPF. ACZDZ W/3650 GALS 15% NEFE HCL, 72 RCNB'S. FRAC W/59,500 GALS GEL, 2100 GALS 15% NEFE SLICK HCL, 73500# 20/40 SD, 56 RCNB'S. GIH W/TBG TO 5706'. RIH W/PMP & RODS. HUNG ON. COMPLETE AFTER TA DRINKARD, RECOMPLETING BLINBERY.

09/13/05: POH W/RODS & PMP. RIH W/1" X 8' GAS ANCHOR, 2.0" X 1.25" X RHBC X 12' X 3' PMP (SN# - HGEN-343), 1 - 7/8" X 4' STABILIZER ROD, 153 - 3/4" GRADE D SUCKER RODS, 74 - 7/8" GRADE D SUCKER RODS, 2 - 7/8" X 6' PONY RODS, 1 - 1-1/2" X 26' PR.



A. L. CHRISTMAS C #16 WELLBORE DIAGRAM

GL: 3461'
KB: 3477.5
DF:



DATA
LOCATION: 810' FSL & 710' FWL, UNIT M. SEC. 18, T-22-S, R-36E
COUNTY/STATE: LEA COUNTY, NM
FIELD: EUMONT
FORMATION: BLINEBRY
SPUD DATE: 10/14/77
INITIAL IP: P 7 BOPD, 0 BWPD, 9 MCFPD (11/17/85)
API #: 30-025-25670
CHEVNO: EP8265
CURRENT STATUS:

HISTORY

COMPLETION DATA:

10/14/77: SPUD 12 1/4" HOLE. DRL TO 1133'. RAN 27 JTS 8 5/8" 24# K-55 ST&C CSG. SET @ 1129' & CMTD W/500 SX CL C. CMT CIRC.
10/16/77: DRL 7 7/8" HOLE. TD @ 6700'. RAN 158 JTS 5 1/2" 15.5# K-55 LT&C CLASS A SET @ 6700'. DVT TOOL @ 3575'. CMT 1ST STG W/735 SX. CMT CIRC. CMT 2ND STG W/1300 SX CL C. CIRC CMT W/30 SX.
11/03/77: PERF 6561-63', 6592-94', 6612-14' (2 JHPF). STRADDLE EACH SET OF PERFS W/PKR & BP & BRK DWN W/500 GALS 15% NEFE PER SET. SWAB TSTD 100% WTR
11/14/77: SQZD PERFS 6561-6614'. DO TO 6604'
11/16/77: PERF 6574-6580 (2 JSPF). ACZDZ W/1000 GALS 15% NEFE. AFTER TRTMT ON 11/22/77 WELL PMPD 0 BO, 144 BW IN 20 HRS.
01/18/78: TST PMP 0 BO, 130 BW.
02/17/78: TST PMP 0 BO, 36 BW.
03/17/78: TST PMP 0 BO 35 BW.
03/21/78: SET CIBP @ 6525' & CAPPED W/35' CMT.
03/22/78: PERF 6286-88', 6316-18', 6358-60' W/2 JHPF (TOT 12 HOLES). STRADDLE ACZDZ EACH SET OF PERFS W/400 GALS 15% NEFE HCL. ACZDZ PERFS 6286-6360' W/3000 GALS 15% NEFE HCL & 20 RCNB.
03/28/78: FRAC THRU PERFS 6286-6360' W/19000 GALS GELLED 1% KCL & 36,000# 20/40 SD.
03/31/78: RIH W/1 JT 2 3/8" 4.7# EUE 8RD J-55 TBG, BP ON BTM, 2 3/8" X 3' PERF NIPPLE, 2 3/8" SN, 4 JTS 2 3/8" TBG, 5 1/2" X 2 3/8" GUIB ANCHOR, 203 JTS 2 3/8" TBG SET @ 6412'. ANCHOR SET @ 6250'. RUN 2" X 1 1/2" X 16' PMP, 1 3/4" X 2' PONY ROD, 174 - 3/4" GRD D SUCKER RODS W/ SMC, 78 - 7/8" GRD D SUCKER RODS W/SHSMC, 3 - 7/8" GRD D PONY RODS, 1 - 8', 1 - 6', 1 - 4', 1 - 22' POLISH RODS.

A. L. CHRISTMAS C #16

WELLBORE DIAGRAM

04/05/78: TST PMP 95 BO, 50 BLW.

04/17/78: TST PMP 32 BO, 54 BW.

09/22/86: **TA'D TUBB**: SET CIBP @ 6200' & CAP W/35' OF CMT. PERF
5715-5544' W/16 1/2" HOLES. ACDZ W/4000 GALS 15% NEFE
HCL. FRAC W/113,000 GALS X-LINKED GEL & 230,000#
OTTAWA SD. EQUIPPED TO PMP. RETURN PROD AS
BLINEBRY PRODUCER.

11/20/91: **PB & RECOMPLETE**: POHW/PROD EQUIP. SET CIBP @ 3722'.
DUMP 40' CMT ON TOP OF CIBP. PERF PENROSE 3605-3469'
W/1 JSPF, 22 HOLES 0 DEG PHSD. ACDZ W/15% NEFE. FRAC
W/51,000 GALS GEL & 63,000# SD. BAIL OUT SD TO 3660'.
FLW WELL BACK. TIH W/PROD EQUIP. RETURN TO PROD
11/13/91.

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 228

FORMATION: Grayburg

LOC: 2266' FNL & 1793' FWL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 18
COUNTY: Lea
STATE: NM

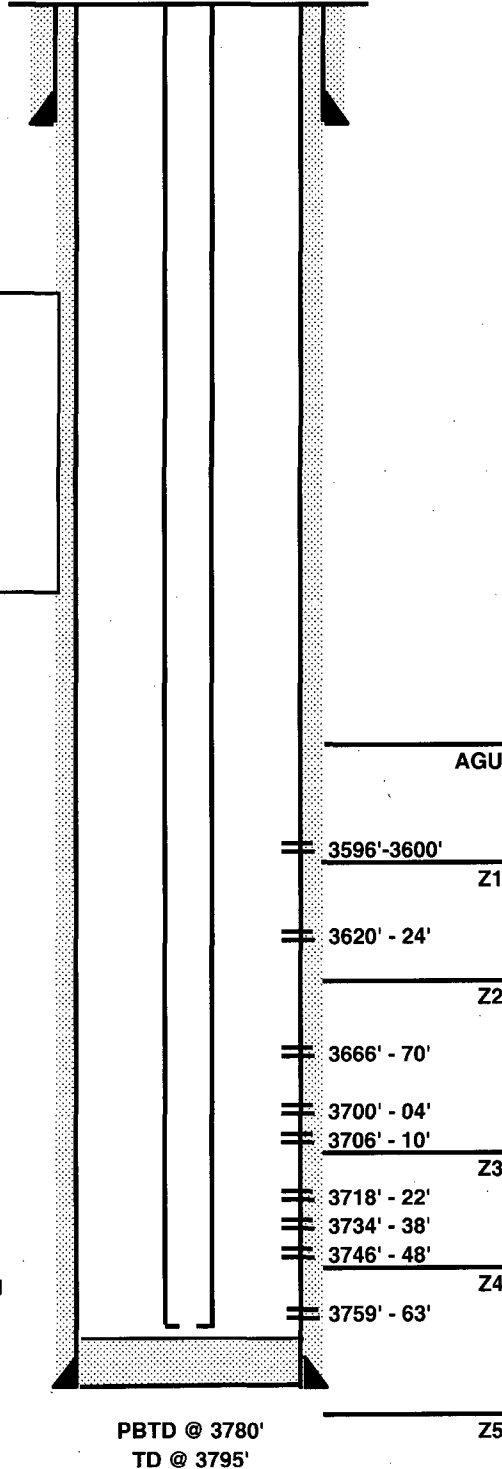
GL: 3425'
KB to GL: 6'
DF to GL: 5'

CURRENT STATUS: Producer
API NO: 30-025-31246
CHEVNO: KZ-3255

8-5/8" OD, 23#/ft, M-50,
Surf. Pipe set @ 1160' w/
720 sxs cmt. Circ 108 sxs
to surface.

Tubing Detail: 02/17/92

5-1/2" OD, 15.5#/ft., K-55 csg
Set @ 3795' w/ 625 sxs cmt.
Circ 75 sxs to surface.



Date Completed: 03-24-92

Initial Injection: 30 BOPD / 80 MCFGPD / 450 BWPD

Initial Formation: Grayburg From: 3596' To: 3763'

Completion Data:

01-23-92 Drill to 3795' (Zn 4). Log AWS ZDL-CNL-GR-CAL, DLL-MLL-GR. Set 5-1/2" csg. DOC to 3780'. **Selectively perf 3596'-3670'** (AGU - Zn 2) w/ 2 SPF. **Selectively ACDZ** w/ 550 gals 15% NEFE HCL. **Swb** Rec 79 BF (3-50% OC) / 15 runs; FER 15 BPH. **Swb 3666'-3670'** (Zn 2) Rec 45 BF (4% OC) / 9 runs; FER 14 BPH. **Swb 3620'-24'** (Zn1) Rec 35 BF (10-20% OC) / 6 runs; FER 17 BPH. **Swb 3596'-3600'** (AGU) Rec 50 BF (2-60% OC) / 9 runs; FER 17 BPH. **Selectively perf 3759'-63'** (Zn 4) w/ 2 SPF. **Selectively ACDZ** w/ 200 gals 15% NEFE HCL. **Swb** Rec 38 BW / 15 runs; FER 5 BPH. **Selectively perf 3706'-3748'** (Zn's 2 & 3) w/ 2 SPF. **Selectively ACDZ** w/ 5,376 gals 15% NEFE HCL. **Swb** Rec ttl 102 BF (8-10% OC) / 18 runs; FER 17 BPH. **SQZ 3682'-86'** (Zn 2) w/ 150 sxs cmt. **Selectively re-perf 3596'-3763'** (AGU - Zn 4) w/ 2 SPF. **Selectively ACDZ** w/ 1050 gals 15% NEFE HCL. **Swb** Rec ttl 9 BO + 127 BW (10% OC) / 30 runs; FER not rept'd. TIH w/ prod. tbg & TO to production.

04-12-92 Test pump 17 BOPD + 111 MCFGPD + 443 BWPD.

4/2002 ran ESP

Workover History:

Additional Data:

T/Queen @ 3292'

T/Penrose @ 3396'

T/AGU @ 3581'

T/Grayburg Zone 1 @ 3604'

T/Grayburg Zone 2 @ 3641'

T/Grayburg Zone 3 @ 3713'

T/Grayburg Zone 4 @ 3753'

T/Grayburg Zone 5 (EST) @ 3797'

T/San Andres @ 3840'

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 229 WI

FORMATION: Grayburg

LOC: 2256' FNL & 2062' FEL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 18
COUNTY: Lea
STATE: NM

GL: 3416'
KB to GL: 13.5'
DF to GL: 12.5'

CURRENT STATUS: Injector
API NO: 30-025-31740
CHEVNO: OU-5340

8-5/8" OD, 23#/ft, M-50,
 Surf. Pipe set @ 1123' w/
 750 sxs cmt. Circ 130 sxs
 to surface.

Tubing Detail: 12/23/92

KBTH: 13.50'
 119 Jts. 2-3/8" J-55 DuoLine: 3622.18'
 Elder On-Off Tool: 1.70'
 Elder LOC-SET Pkr: 3.73'
 WL reentry guide: 0.67'
 Landed @: 3641.74'

Date Completed: 02-03-93

Initial Injection: 725 BWIPD

Initial Formation: Grayburg **From:** 3667' **To:** 3810'

Completion Data:

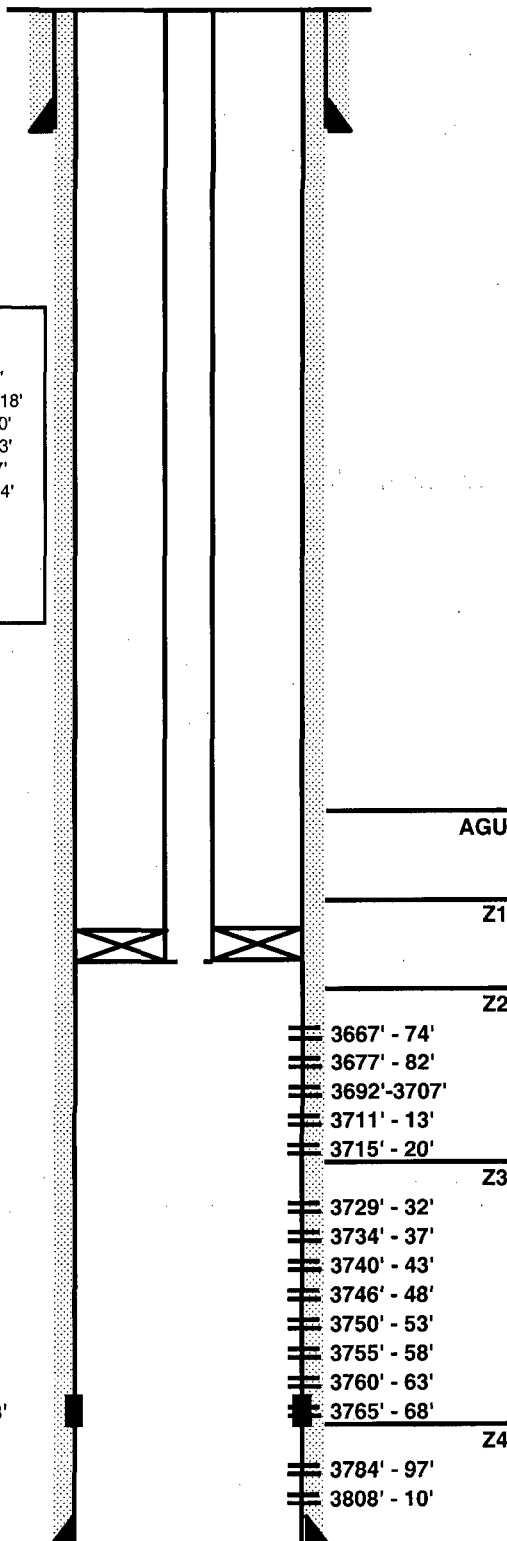
10-19-92 Drill to 3815'. Log CWS DLL-MSFL-GR, SLD-CNL-GR-CAL, SLD-PE-CNL-GR & SFT. DOC to 3813' & circ hole clean. **Selectively perf 3784'-3810' (Zn 4) w/ 2 SPF. Selectively ACDZ w/ 376 gals 15% HCL. Swb Rec ttl 26 BW (1% OC) in 3.5 hrs.; FER 1 BPH. Selectively perf 3729'-3768' (Zn 3) w/ 2 SPF. Selectively ACDZ (PPI pkr) w/ 520 gals 15% HCL. Swb Rec ttl 62 BF (5% OC) & SWB DRY in 4.5 hrs.; FER 12 BPH & 31 BF (5% OC) in 2.5 hrs.; FER 2 BPH. Selectively perf 3667'-3720' (Zn 2) w/ 2 SPF. Selectively ACDZ w/ 420 gals 15% NEFE HCL. Swb Rec 124 BW in 5 hrs.; FER 18 BPH & 6 BF (15% OC) last run; FER 5 BPH. TIH w/ prod. tbg & TO to production.**
 03-04-93 Injection rate 1,255 BWIPD.

Workover History:

06-03-98 CO to 3815'. W/CTU: ACDZ perms 3667-3810' w/2000 gal 15% HCl w/70Q foam down backside as diverter.

Additional Data:

T/Queen @ 3304'
 T/Penrose @ 3405'
 T/AGU @ 3580'
 T/Grayburg Zone 1 @ 3620'
 T/Grayburg Zone 2 @ 3661'
 T/Grayburg Zone 3 @ 3723'
 T/Grayburg Zone 4 @ 3769'
 T/Grayburg Zone 5 (EST) @ 3812'
 T/San Andres @ 3855'



FC @ 3763'

5-1/2" OD, 15.5#/ft., K-55 csg
 Set @ 3815' w/ 800 sxs cmt.
 Circ 180 sxs to surface.

PBTD @ 3815'
TD @ 3815'

FILE: WBS229_10292006.XLS
GAH: 10292006

P&A WELL DATA SHEET

FIELD: ARROWHEAD
LOC: 1980' FSL & 1980' FEL
TOWNSHIP: 22-S
RANGE: 37-E

WELL NAME: AGU No. 232
SEC: 18/J
COUNTY: Lea
STATE: NM

GL: 3409'
KB to GL: 13.0'
DF to GL: 12.0'

FORMATION: Grayburg
CURRENT STATUS: SI Producer
API NO: 30-025-10352
CHEVNO: FB1345

9-5/8" OD, 36 #/ft, Surf. pipe
 set @ 450' w/ 125 sxs El Toro
 cmt in 13-3/4" hole. Cmt circ
 to surface.

Plug # 4
 Perf & Sqz @ 500' w/160 sx
 to surf.

Plug #3
 Spot 40' sx cmt plug f/1230'
 to 1130', @ T/Salt.

Plug # 2
 Spot 40' sx cmt plug fr/ 2485'
 to 2385', @ B-Salt.

Plug # 1
 Tag CIBP @ 3570', spot
 w/70' sx cmt fr/3570 to
 3262'.

TA-ATTEMPT 8/22/01
 Set CIBP @ 3564', Circ
 w/Pkr FI, No Test.

7" OD, 24 #/ft, Prod. pipe
 set @ 3609' w/ 500 sxs El Toro
 cmt in 8-3/4" hole. TOC @ 536'
 by calc.

OH pkr @ 3627'

2 jts. 2-7/8" I & E PC tbg.

OH pkr @ 3702'

OH pkr (RBP) @ 3746'

6-1/8" Open Hole

TD @ 3809'
 (Wireline TD @ 3816')

2680', 2715',
 2785', 2820',
 2875', 2910',
 2945', 3128',
 3181'

Penrose

3418' - 72'
 3530' - 50'
 3576' - 90'
 3596' - 602'

GRBG Z1

Z2

Z3

Z4

Z5

Date Completed: 5/01/40

Initial Production: 1308 BOPD / 0 BWPD / 1073 MCFGPD

Initial Formation: Grayburg **From:** 3609' **To:** 3715'

Completion Data: Open hole natural.

Workover History:

11-00-44 Acidize open hole from 3670' to 3715' w/ 2000 gals. 15% HCl.

04-15-52 Acidize open hole w/ 2000 gals. 15% HCl.

07-25-56 Set cmt retainer @ 3595' and cmt sqz open hole w/ 50 sxs cmt. Perf Eumont 3530' to 3550'. Acidize w/ 1000 gal. and Frac w/ 10,000 gal. oil and 15,000 lbs. sand.

05-00-57 Set RBP @ 3500'. Perf Eumont 3418' to 3472'. Acidize w/ 1000 gal. and Frac w/ 20,000 gals. oil and 30,000 lbs. sand. Pull RBP and produce from 3418' to 3472' and from 3530' to 3550'. Place on prod.

09-22-75 Set RBP @ 3275'. Selectively perforate zones between 2680' and 3181' w/ 2 spf (18 holes total). Acidize w/ 2300 gals. 15% HCl and Frac w/ 42,000 gals. CO2 foam and 65,000 lbs. sand. Leave RBP @ 3275' and return to production.

06-08-89 Cmt sqz perms 2680' to 3181' w/ 200 sxs. Drill out and test to 500 psi. Pull RBP f/ 3275'. Cmt sqz perms 3418' to 3472' and 3530' to 3550' w/ 250 sxs. Drill out and test to 500 psi. Drill out CICR @ 3595' and clean out open hole to 3715'. Perf open hole. Acidize open hole w/ 1400 gals. 15% HCl. Return to production. Production test: 0 BOPD/ 75 BWPD/ 0 MCFGPD.

06-12-93 Isolate csg leak in old perms 3418' to 3472'. Cmt sqz w/ 50 sxs. Drill out and test csg to 500 psi. Turn well over to Chevron for Arrowhead Grayburg Unit.

11-01-93 POOH w/ prod. equip. Deepen well 3715' to 3809' (Logger TD @ 3816'). Log well. Add perms 3576' - 90' and 3596' - 602'. Acidz perms/open hole w/ 3500 gals. 15% HCl. Swab test by zones. Acidz 3720' to 3809' w/ 1000 gals. 15% HCl. Swab test. BD perms 3576' - 90' and 3596' - 602' w/ acid and PPI pkr. Swab back. Run prod. equip. Place well on production test for one month. Well producing 0 BOPD/ 521 BWPD/ 0.3 MCFGPD.

12-06-93 POOH w/ prod. equip. Swab test to identify water zones. Set Open hole pkr (Converted to RBP) @ 3746'. Set Open hole pkr straddle assembly w/ pkrs @ 3627' and 3702'. Run prod. equip. Place well on prod. test. Well producing 15 BOPD/ 128 BWPD/ 42 MCFGPD.

8/22/01 POOH w/ Rods & Tbg. Set CIBP @ 3564', circ w/Pkr FI, Failed MIT Test. Will P&A well.

9-27-02 Tag 7" CIBP @ 3570', spot 70 sx plug fr/3570' to 3262', tag @ 3181'. Spot 40 sx plug fr/2485' to 2385' (B-salt). Spot 40 sx plug fr/1230' to 1130' (T-salt). Perf 4 holes @ 500', circ cmt between 7" & 9-5/8" csg w/160 sx. to surf. Install dry hole marker.

Additional Data:

T/Rustler @ 1105'

T/Salt @ 1180'

B/Salt @ 2435'

T/Queen @ 3312'

T/Penrose @ 3416'

T/AGU @ 3572'

T/Grayburg Zone 1 @ 3618'

T/Grayburg Zone 2 @ 3654'

T/Grayburg Zone 3 @ 3714'

T/Grayburg Zone 4 @ 3761'

T/Grayburg Zone 5 @ 3810' (Zia Energy Mineral Rights)

T/San Andres @ 3854' (estimated) (Zia Energy Mineral Rights)

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 234

FORMATION: Grayburg

LOC: 1880' FSL & 750' FWL

SEC: 18

GL: 3434'

CURRENT STATUS: Producer

TOWNSHIP: 21-S

COUNTY: Lea

KB to GL: 13.5'

API NO: 30-025-31610

RANGE: 36-E

STATE: NM

DF to GL: 12.5'

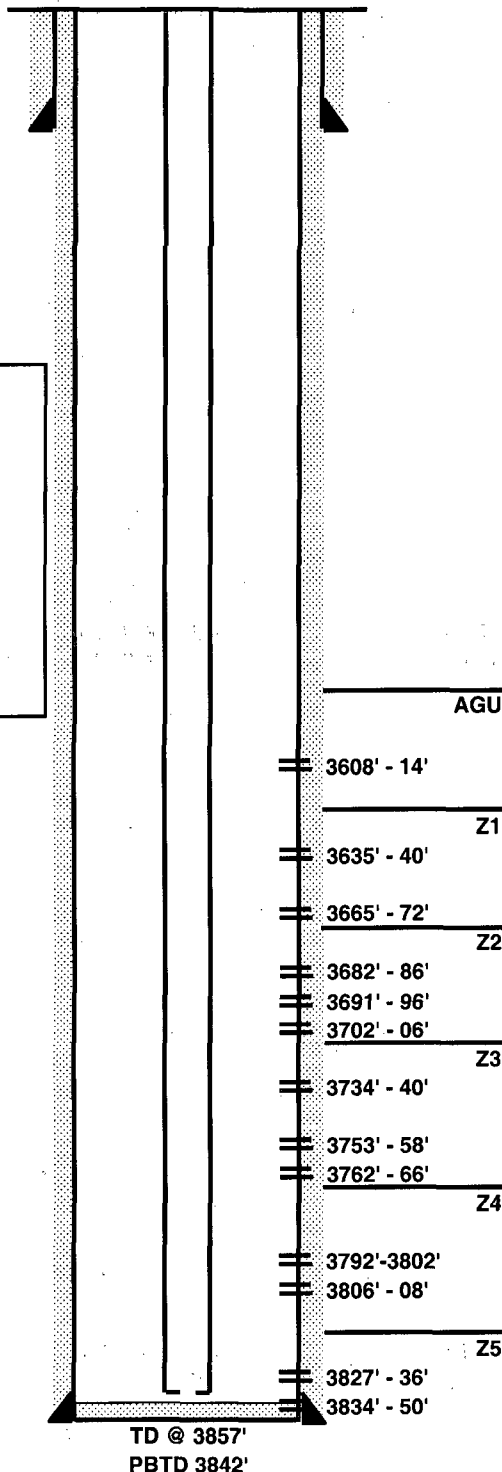
CHEVNO: OR-6481

8-5/8" OD, 23#/ft, M-50
Surf. Pipe set @ 1151' w/
750 sxs cmt.
Circ 300 sxs to surface.
12 1/4" hole size

Tubing Detail: 08/06/92

KBTH: 13.50'
118 Jts. 2-7/8" J-55 8-rd: 3804.34'
1 Centrilift-FC TD 1200 15.26'
1 Seal 6.00'
1 FMH 62 HP Motor 12.00'
Landed @: 3622.01'

5-1/2" OD, 15.5#/ft., K-55
Set @ 3857' w/ 850 sxs cmt.
Circ. 170 sxs to surface.
7 7/8" hole size



Date Completed: 08-07-92

Initial Injection: 63 BOPD / 54 MCFGPD / 275 BWPD

Initial Formation: Grayburg **From:** 3608' **To:** 3850'

Completion Data:

07-03-92 Drill to 3845'. Log SCHL DLL-MSFL-GR, CNL-LDT-GR-CAL & RFT. Circ hole clean & run 5-1/2" csg. DO cmt to 3842' & circ hole clean. **Selectively perf 3792' - 3850'** (Zn 4 & 5) w/ 2 SPF. **Selectively ACDZ** (PPI pkr) w/ 336 gals 15% HCL. **Swb** Rec ttl 5 BO + 53 BW / 30 runs in 6 hrs.; SFL @ 2000', FER 10 BPH. **Selectively perf 3608' - 3766'** (AGU - Zn 3) w/ 2 SPF. **Selectively ACDZ** (PPI pkr) w/ 950 gals. **Swb 3608' - 3850'** (AGU - Zn 5) Rec ttl 35 BO + 55 BW / 14 runs in 7 hrs.; SFL @ 2000', FER 15 BPH. Open after. SION & flowed 5 BF, swb 15 BF. TIH w/ prod. tbg & TO to production.

Workover History:

10-01-93 Install Electric Sub.

Additional Data:

T/Queen @ 3318'
T/Penrose @ 3435'
T/AGU @ 3598'
T/Grayburg Zone 1 @ 3625'
T/Grayburg Zone 2 @ 3665'
T/Grayburg Zone 3 @ 3724'
T/Grayburg Zone 4 @ 3767'
T/Grayburg Zone 5 @ 3817'
T/San Andres @ 3853'

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 240 WI

FORMATION: Grayburg

LOC: 660' FSL & 775' FWL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 18
COUNTY: Lea
STATE: NM

GL: 3438'
KB to GL: 13.5'
DF to GL: 12.5'

CURRENT STATUS: Injector
API NO: 30-025-31632
CHEVNO: OS-4929

8-5/8" OD, 23#/ft, M-50,
 Surf. Pipe set @ 1177' w/
 800 sxs cmt. Circ 100 sxs
 to surface.

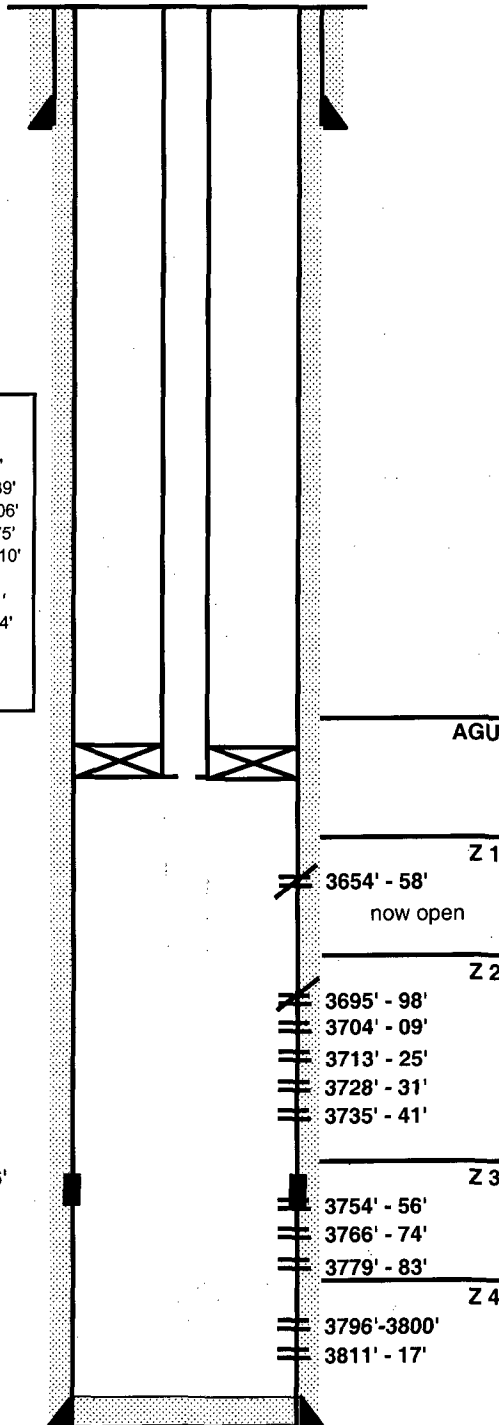
Tubing Detail: 07/30/92

KBTH:	13.50'
2-3/8" X-O Nipple:	0.39'
116 Jts. 2-3/8" cmt. lined:	3588.06'
2-3/8" X-O Nipple:	0.75'
2-3/8" Guiberson on-off tool:	2.10'
Howco G-6 inject. pkr.:	3.73'
Reentry guide:	.51'
Landed @:	3609.04'

5-1/2" Guiberson G-6 pkr @
 3609' w/ on-off tool

FC @ 3756'

5-1/2" OD, 15.5#/ft., K-55,
 Set @ 3915' w/ 850 sxs cmt.
 Circ to surface.



PBSD 3826'
 TD @ 3836'

Date Completed: 09-01-92

Initial Injection: 981 BWIPD

Initial Formation: Grayburg

From: 3654' **To:** 3817'

Completion Data:

07-16-92 Drill to 3745'. Log CWS DLL-MSFT-GR & CNL-LDT-GR-CAL. Drill to 3836'. Run 5-1/2" csg. Do cmt. to 3826' & circ hole clean. **Selectively perf 3654-3817** (Zn's 1-5) w/ 2SPF. **Selectively ACDZ** (PPI pkr) w/ 924 (est) gals. Swb Rec 3 BO + 7 BW / 5 runs in 5 hrs.; SFL @ 2500', FER 10 BPH. RIH w/ injection equipment & TO to production.

08-03-92 Injection rate 981 BWIPD.

10-03-96 Acdz w/4000 gals 15% Resisol.

Workover History:

07-26-99 Acdz perfs 3654'-3817' w/2000 gals 15% HCL. Dmp 2250# 20/40 sd down csg, wash sd to 3700'. Acdz perfs 3654'-3698' w/1000 gals 15% HCL. Sqz perfs 3654'-3698' w/275 sx cmt. DO cmt to 3703', wash sd to 3826'.

3/2001 Acid CTU 4000. Prior to acid well was not taking any water but after well was back on injection at 1500 BWIPD a profile survey showed old squeezed perfs had broken down and most of the water was going in squeezed perfs.

Additional Data:

T/Queen @ 3341'
 T/Penrose @ 3460'
 T/AGU @ 3589'
 T/Grayburg Zone 1 @ 3651'
 T/Grayburg Zone 2 @ 3687'
 T/Grayburg Zone 3 @ 3752'
 T/Grayburg Zone 4 @ 3785'
 T/Grayburg Zone 5 @ 3835'
 T/San Andres @ 3875'

AGU

Z 1

3654' - 58'
 now open

Z 2

3695' - 98'
 3704' - 09'
 3713' - 25'
 3728' - 31'
 3735' - 41'

Z 3

3754' - 56'
 3766' - 74'
 3779' - 83'

Z 4

3796'-3800'
 3811' - 17'

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 242 WI

FORMATION: Grayburg

LOC: 560' FSL & 1980' FEL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 18
COUNTY: Lea
STATE: NM

GL: 3412'
KB to GL: 6'
DF to GL: 5'

CURRENT STATUS: Injector
API NO: 30-025-31329
CHEVNO: KX-4082

8-5/8" OD, 23#/ft, M-50,
Surf. Pipe set @ 1155' w/
700 sxs cmt.
Circ 128 sxs to Surface.

Tubing Detail: 10/25/91

KBTH: 6.00'
2-3/8" Nipple: 0.68'
115 Jts. 2-3/8" Duoline: 3599.36'
On-Off tool w/ 1.43" "F" profile: 1.95'
Guiberson P-C G-6 pkr: 3.73'
WL re-entry guide: 0.38'
Landed @: 3612.10'

Date Completed: 06-01-92

Initial Injection: 172 BWIPD

Initial Formation: Grayburg

From: 3652' To: 3792'

Completion Data:

09-06-91 Drill to 3620'. Core 3620'-3980' in 6 core bbls. TD @ 3980'. Log AWS ZDEN-CNL-GR-CAL, BHC-ACS-GR, DLL-MLL-GR, DEL-GR & FMT (log'r TD 3984'). Run 5-1/2" csg. MIRU completion rig. Clean out to PBD @ 3891'. Selectively perf 3652' - 3792' (Zn 1 - 4) w/ 2 SPF. Selectively ACDZ (PPI pkr) w/ 1,200 gals 15% NEFE HCL. Swb Rec tfl 2 BO + 113 BW (weak blow gas); FER 17 BPH. Swb 3766' - 92' (Zn 4) Rec tfl 162 BF (0 - 40% OC) / 29 runs in 7 hrs.; FER 20 BPH. Swb 3782' - 92' (Zn 4) Rec 38 BF (5% OC) / 15 runs in 5 hrs.; FER 7 BPH. Selectively swb 3746' - 57' & 3766' - 74' (Zn 3 & 4) Rec tfl 25 BW (last run 25% OC) / 9 runs in 3 hrs.; FER 8 BPH. RIH w/ injection equipment.

Workover History:

Additional Data:

T/Queen @ 3328'
T/Penrose @ 3438'
T/AGU @ 3568'
T/Grayburg Zone 1 @ 3632'
T/Grayburg Zone 2 @ 3665'
T/Grayburg Zone 3 @ 3726'
T/Grayburg Zone 4 @ 3760'
T/Grayburg Zone 5 @ 3810'
T/ San Andres @ 3850'

PNRS

AGU

Z1

3652' - 63'

Z2

3670' - 86'

3690' - 96'

3703' - 14'

Z3

3732' - 36'

3746' - 57'

Z4

3766' - 74'

3782' - 92'

Z5

PBTD @ 3891'

T/SA

Float Collar @ 3903'

5-1/2" OD, 15.5#/ft., K-55
Csg set @ 3980' w/ 900 sxs
Circ. 70 sxs to surface.

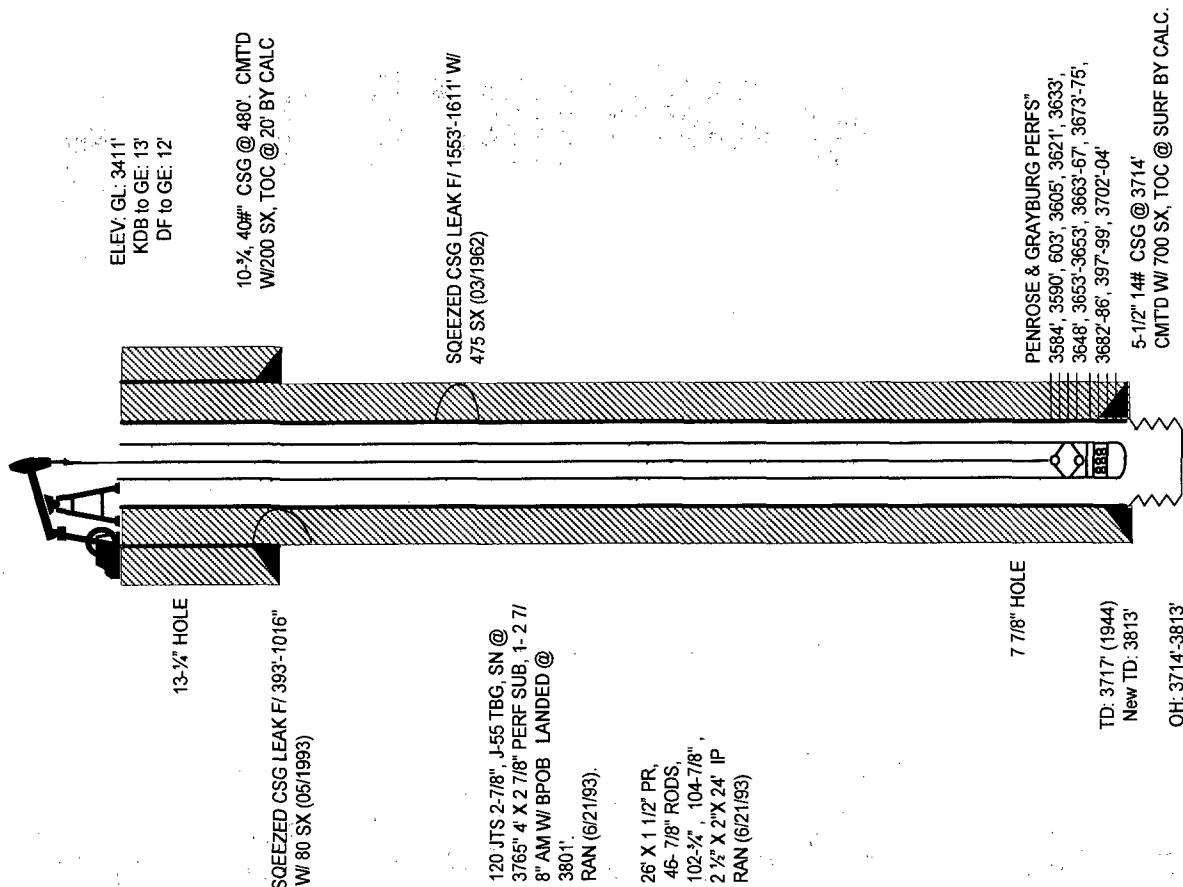
TD @ 3980'

FILE: WBS242.XLS

MRV: 12/29/97

AGU # 245

WELBORE DIAGRAM



DATA

LOCATION: 660' FNL & 1980' FEL, SEC: 19, T-22S, R-37E
COUNTY/STATE: LEA, NEW MEXICO
FIELD: VACUUM YATES
FORMATION: GRAYBURG
SPUD DATE: 1944
API #: 30-025-10359
IP: 1580 BO,
PRODUCTION METHOD: BEAM PMP TUBING STRING: 2 3/8"

HISTORY

1944: DRILLED TO 3717' TD.
SET 10-3/4", 40# CSG @ 480' W/ 200 SX. TOC @ 20' BY CALC.
SET 5-1/2", 14# CSG @ 3714' W/ 700 SX. TOC @ SURF BY CALS
PERF 3645'-3704'. ACID W/ 2000 GALS. WELL COMPLETED 4/1/44

03/1962: SQUEEZED CSG LEAK F/ 1582'-1611' W/ 400 SX. SQZ'D PERFS 3645'-3704' W/ 225 SX
CMT. PERF 3646' & 3654' AND ACD'Z W/ 500 GALS

04/1965: SQUEEZED PERFS 3649' & 3654' W/ 80 SX CMT. PERF'D 3603', 3605', 3621', & 3633'/
FRAC W/ 8000 GALS GELLED CRUDE.

06/1989: PERF EUMONT 3584'-3653' & ACD'Z W/ 7000 GALS.
05/07/93: MIRU, POOH W RODS & PMP. RIH W/ BIT. DRILL OUT CICR @ 3662' TO 3710' AND
DEEPEN WWLL TO 3813' RAN OH LOGS. ISOLATE CSG LEAK F/ 393'-1016' 7 SQZ
W/ 80 SX CMT. DRILL OUT CMT SQZ. ACD'Z OH W/ 1500 GALS 15% NEFE ACID @
1.5 BPM @ 650# AVG. SWAB PERFS, 16 BPH W/ 15% OC. PERF GRAYBURG F/
3702'-04', 3697'-99', 3682'-86', 3673'-75', 3663'-67', RIH W/ PPI PKR & BROKE DWN
EACH SET OF NEW PERFS W/ 2 BBLs ACID & TRT'D EXISTING PERFS. RUN PROD
EQUIP.

12/20/95: PMP 350 GALS 15% NEFE ACID @ 1/2 BPM REV OUT @ 1/2 BPM. CATCHING 5
SAMPLES, ALL SHOW IRON. ACIDZ PERFS & OH W/ 3000 GALS VISCOSIFIED RESI-
SOL II + ACID MIX. SWAB WELL AND RUN PROD EQUIP. RWTP.

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU 246 WIC

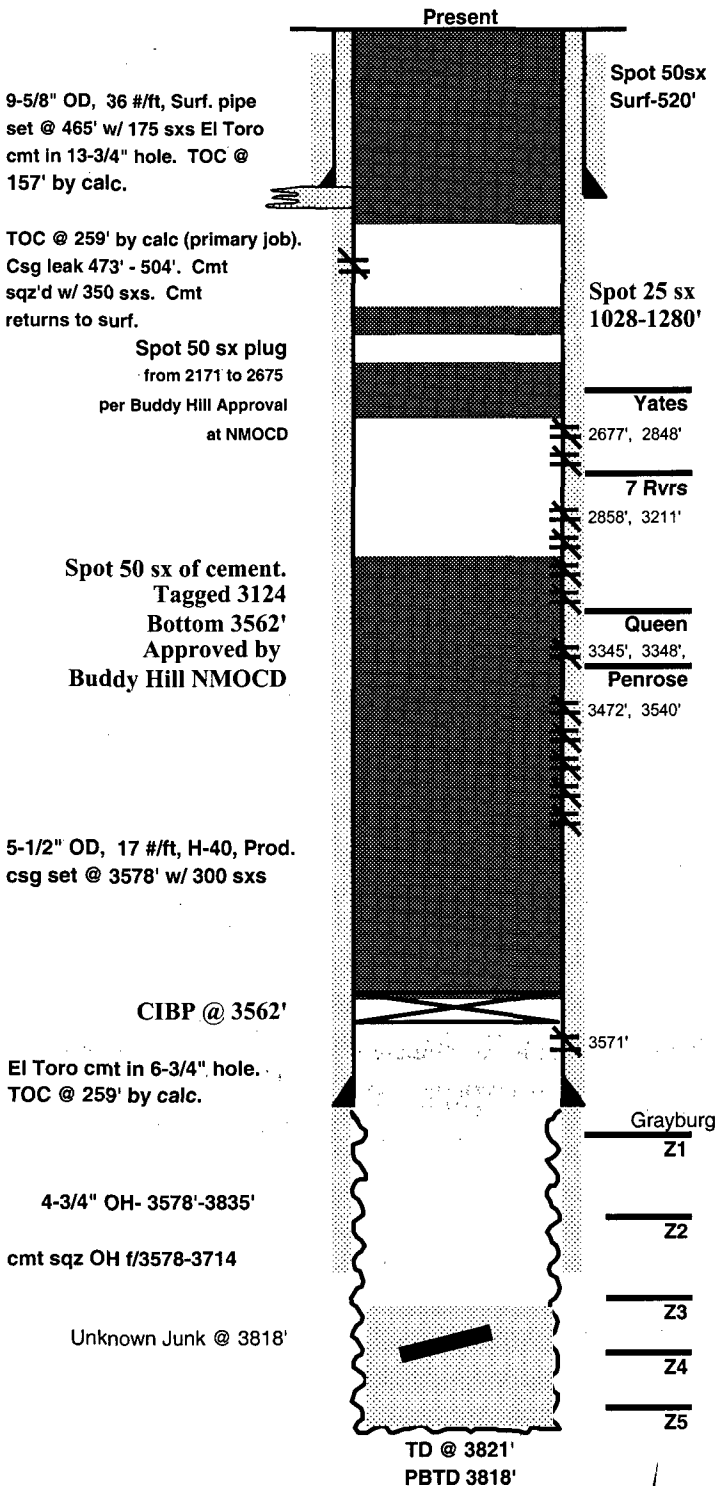
FORMATION: Grayburg

LOC: 660' FNL & 1980' FWL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 19
COUNTY: Lea
STATE: NM

GL: 3414'
KB to GL: 14.0'
DF to GL: 13.0'

CURRENT STATUS: Injector
API NO: 30-025-10358
CHEVNO: FB1351



Date Completed: 10/23/40
Initial Production: 636 BOPD / 0 BWPD / 430 MCFGPD
Initial Formation: Grayburg **From:** 3578' **To:** 3714'
Completion Data: Open hole acidized w/ 4000 gals 15% HCl.

Workover History:

03-05-52 Acdz open hole from 3620' to 3714' w/ 750 gals. gelled acid and 2000 gals. 15% HCl. Before: 3.4 BOPD/ 10% water/ 36 MCFGPD. After: 5.5 BOPD/ 70% water. Well on artificial lift.

08-15-54 Clean out to TD w/ bailer.

11-09-55 Set Lynes straddle pkrs at 3610' and 3690'. Acdz w/ 1000 gals. 15% acid. Frac w/ 20,000 gals. oil and 30,000 lbs. 20/40 sand. Before: 2 BOPD/ 0 BWPD/ 8 MCFGPD. After: 32 BOPD/ 8 BWPD/ 2518 MCFGPD flowing.

10-26-65 POOH w/ prod. equip. RIH w/ inj. pkr and 2-3/8" plastic coated tbq. Convert well to injection thru open hole section 3578' to 3714'.

11-09-73 Set CIGR @ 3550'. Cmt sqz open hole f/ 3578' to 3714' w/ 200 sxs cmt. Selectively perf 28 zones between 2677' and 3510' w/ 1 spf (28 holes total). Acdz w/ 3000 gals. 15% HCl and Frac w/ 28,000 gals. fresh water gel and 37,500 lbs. 20/40 sand.

After: 0 BOPD/ 335 MCFGPD/ 42 BWPD flowing.

06-25-87 POOH w/ prod. equip. Isolate csg leak 473' to 504'. Cmt sqz csg leak w/ 200 sxs Cl. "C" w/ cmt returns to surf. Test sqz to 300 psi. Bled off 150 psi in 10 min. Drill out CIGR @ 3550' and clean out to 3578'. Set pkr @ 3400' and swab dry. Perf thru tubing w/ 2 spf f/ 3492' to 3571' (24 holes). Spot acid across perms and acdz w/ 1600 gals. 15% HCl. Frac w/ 17,000 gals. gel and 36,000 lbs. 20/40 sand ranging f/ 2 to 6 ppg. Swab. Set pkr @ 3402'. Run pump.

After: Trace oil/ 12 BWPD/ 15 MCFGPD.

05-22-89 POOH w/ prod. equip. RIH w/ bit and clean out to 3714'. Locate csg leaks f/ 473' to 504' and old perms leaking below 2677'. Spot sand in open hole up to 3563'. Set CIGR @ 3400' and cmt sqz perms below w/ 150 sxs cmt. Set CIGR @ 2645' and cmt sqz perms below w/ 150 sxs cmt. Cmt sqz down csg w/ 150 sxs cmt on leak 473' to 504'. Drill out and test all cmt sqz to 500 psi. All okay. Clean out to 3714'. Perf open hole w/ 2 spf in 12 intervals (24 shots). Acidize w/ 1500 gals. 15% HCl. Run prod. equip.

After: 2 BOPD/ 83 BWPD/ 2 MCFGPD

06-15-93 Attempted to locate and repair casing leak w/o success. No major leaks located. Turn well over to Chevron for Arrowhead Grayburg Unit.

01-24-94 POOH w/ prod. equip. Tst csg to 300# - OK. Deepen from 3714' - 3821'. Left 3 4-3/4" bit cones on bottom at 3821'. Run logs (SPe/Den/GR). Logger TD @ 3792'. RIH w/ cone buster and find TD @ 3806' and mill down to 3818' (from Ground Level). Fish BHA + tbq lost during milling operation. Acidize OH in 4 stages w/ 9500 gals acid followed by block; ISIP 200#, vac in 5". Swb 35 runs, R/142 Bbls wtr, 100% BS& W.; SFL @ 1150', EFL 2400'. FER 20 BPH. 2% oil cut. Run injection equip.

4-11-2001 ND WH NU BOPE R/U floor. RIH w/ 2-7/8" WS, tag @ 3807' w/ 28' fill. Quit making hole, drig on junk. Tst perms. Isolate sag lk from 456'-487', sqz w/ 75 sx Cl 'C' cmt. RIH w/ tbq, set pkr @ 3566'. Ran MIT tst.

Additional Data:

T/Yates @ 2672', T/Seven Rivers @ 2853', T/Queen @ 3341',
T/Penrose @ 3460'
T/AGU @ 3564'
T/Grayburg Zone 1 @ 3652'
T/Grayburg Zone 2 @ 3688'
T/Grayburg Zone 3 @ 3752'
T/Grayburg Zone 4 @ 3784'
T/Grayburg Zone 5 @ 3833' (estimated) (Zia Energy Injection Agreement)
T/San Andres @ 3870' (estimated) (Zia Energy Mineral Rights)

FILE: WBS246.XLS
cjh: 5-14-01 (updated)

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 247

FORMATION: Grayburg

LOC: 660' FNL & 660' FWL
TOWNSHIP: 22-S
RANGE: 37-E

SEC: 19
COUNTY: Lea
STATE: NM

GL: 3429'
KB to GL: 10'
DF to GL: 9'

CURRENT STATUS: Producer
API NO: 30-025-10362
CHEVNO: FB1355

9-5/8", 36#/ft, Surf. Pipe
set @ 459' w/ 175 sxs cmt.
TOC @ 35' by calc.
13-3/4" hole.

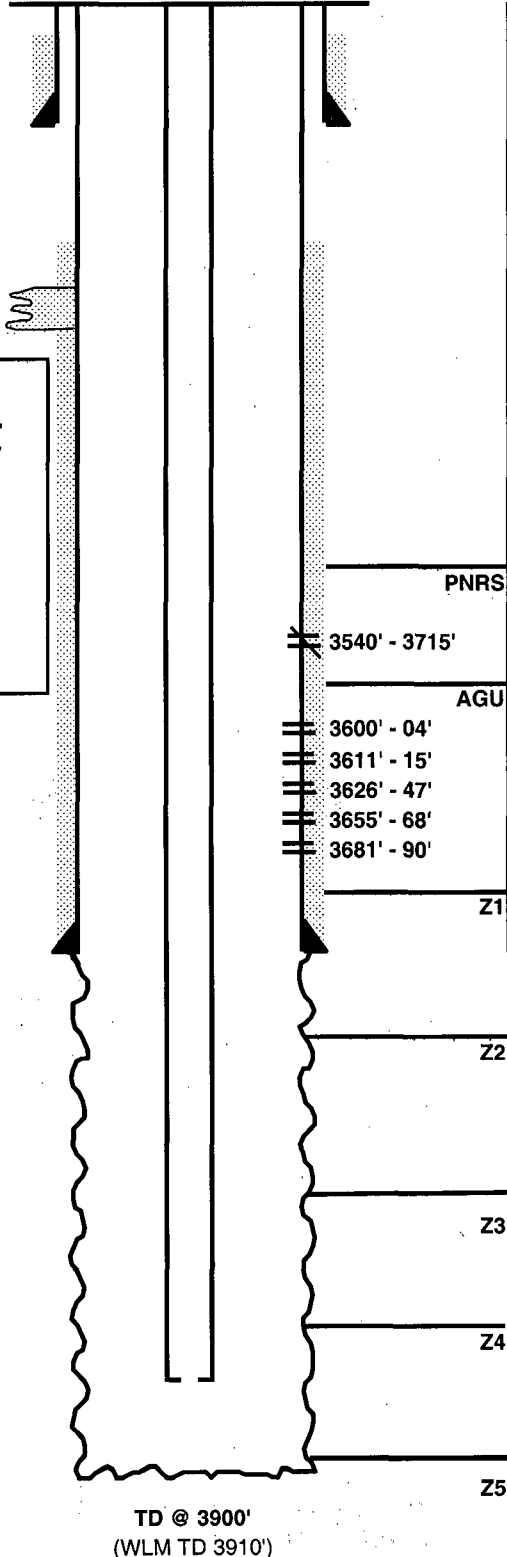
Tight csg @ 465' and 481'.

Sqz csg leaks 490'
w/ 300 sxs cmt.

Tubing Detail: 01/31/96

KBTH:	10.00'
123 Jts. 2-7/8" 6.5#:	3832.00'
2-7/8" SN:	1.10'
2-7/8" Perf Sub:	4.00'
2-7/8" MAJ w/ BPOB:	31.07'
Landed @:	3878.17'

5-1/2", 17#/ft, csg set @
3718' w/ 300 sxs cmt.
TOC @ 399' by calc.
6-3/4" hole.



Date Completed: 11-09-40

Initial Production: 384 BOPD/ 0 BHPD/ NMOG

Initial Formation: Pnrs/Grayburg From: 3540' To: 3715'

Completion Data:

Drill to 3719, circ & clean hole. Run 5-1/2" csg to 3718'. Perf 3540' - 3715' (PNRS - Zn 1). ACDZ w/ 3,000 gals.

Workover History:

04-21-87 Frac w/ 20,000 gals GBW & 36,000 #'s 20/40 sand.

10- -88 SQZ csg leak @ 490' w/ 300 sxs cmt.

08-07-91 Clean out fill from 3643' to 3718'. Had to mill tight spots in csg at 465' and 481'. Cement SQZ 3540' - 3715' (PNRS - Zn 1) w/ 150 sxs cmt. & test sqz job. DO cmt & circ hole clean. Deepen from 3715' - 3900' (Zn 1 - 5) & circ hole clean. Log HLS CNL-LDT-GR & DLL-GR (logr TD 3910'). Selectively perf 3600' - 90' (AGU) w/ 2 SPF. ACDZ w/ 2,500 gals 15% NEFE HCL. Swb Rec ttl 6 BW (2% OC) / 3 runs; FER 100' in 1 hr. ACDZ OH 3715'-3900' (Zn's 1 - 5) w/ 1,500 gals 15% HCL. Swb OH Rec ttl 12 BF & SWB DOWN / 4 runs in 2 hrs.; FL @ 3700'. RIH w/ prod tbg & TO to production. Test pump 12 BOPD + 49 MCFGPD + 30 BHPD.

01-01-96 Acdz perms f/3600-3690 and OH w/3400 gals.

Additional Data:

T/Queen @ 3407'

T/Penrose @ 3523'

T/AGU @ 3589'

T/Grayburg Zone 1 @ 3714'

T/Grayburg Zone 2 @ 3750'

T/Grayburg Zone 3 @ 3814'

T/Grayburg Zone 4 @ 3848'

T/Grayburg Zone 5 @ 3899'

T/San Andres @ 3935'

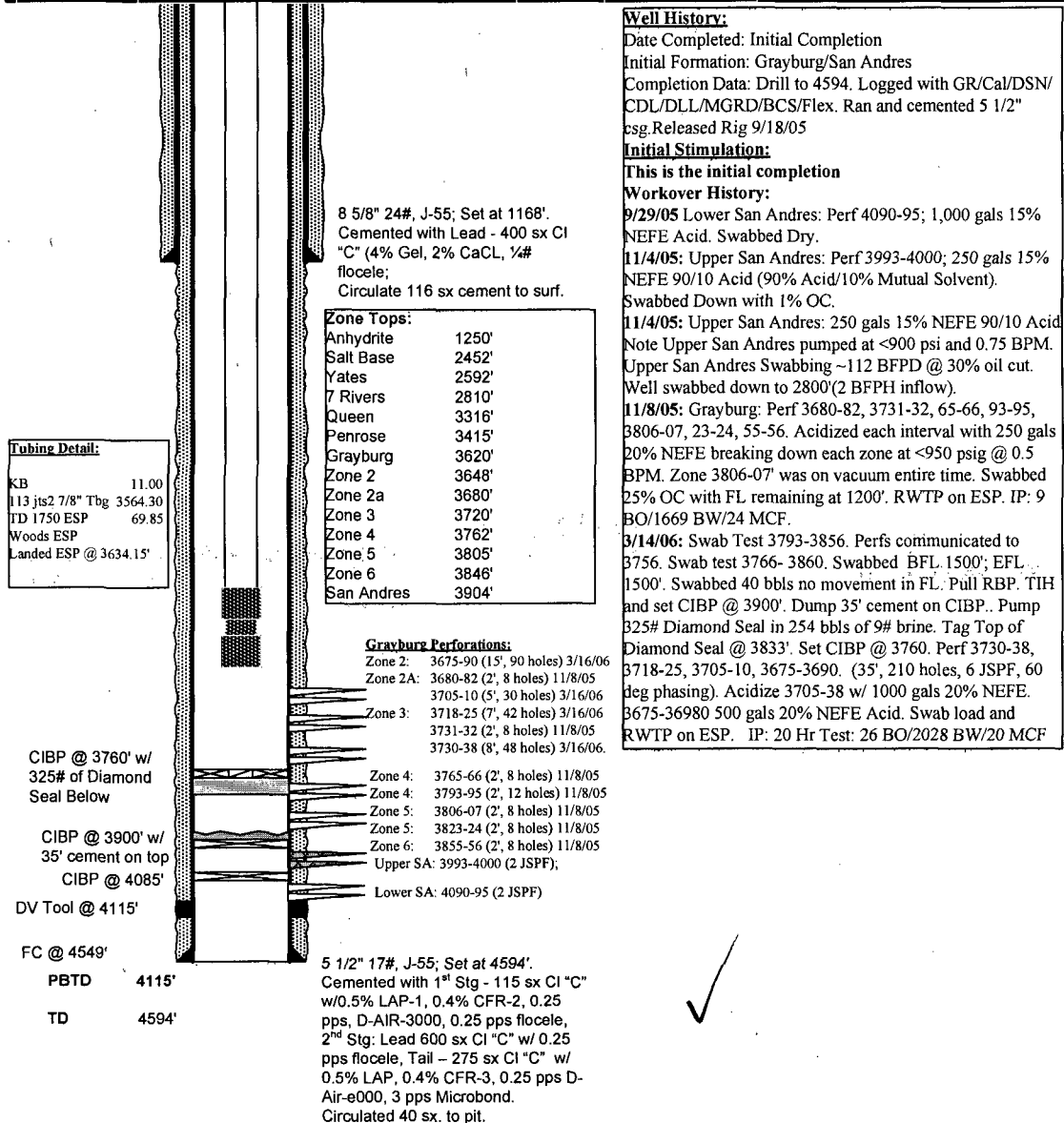
XTO ENERGY

Well: Arrowhead Grayburg #408
Area: Eunice
Location: 2300' FNL & 1080' FWL
 Sec 18 T22S R37E

WI: 55.59%
NRI: 46.9882%
Spud: 9/19/2005

County: Lea
Elevation: 3432' GL : 3443' KB: 11' KB

State: New Mexico



PREPARED BY: Greg Hicks

DATE: 4/6/06

P&A"D 5/25/61

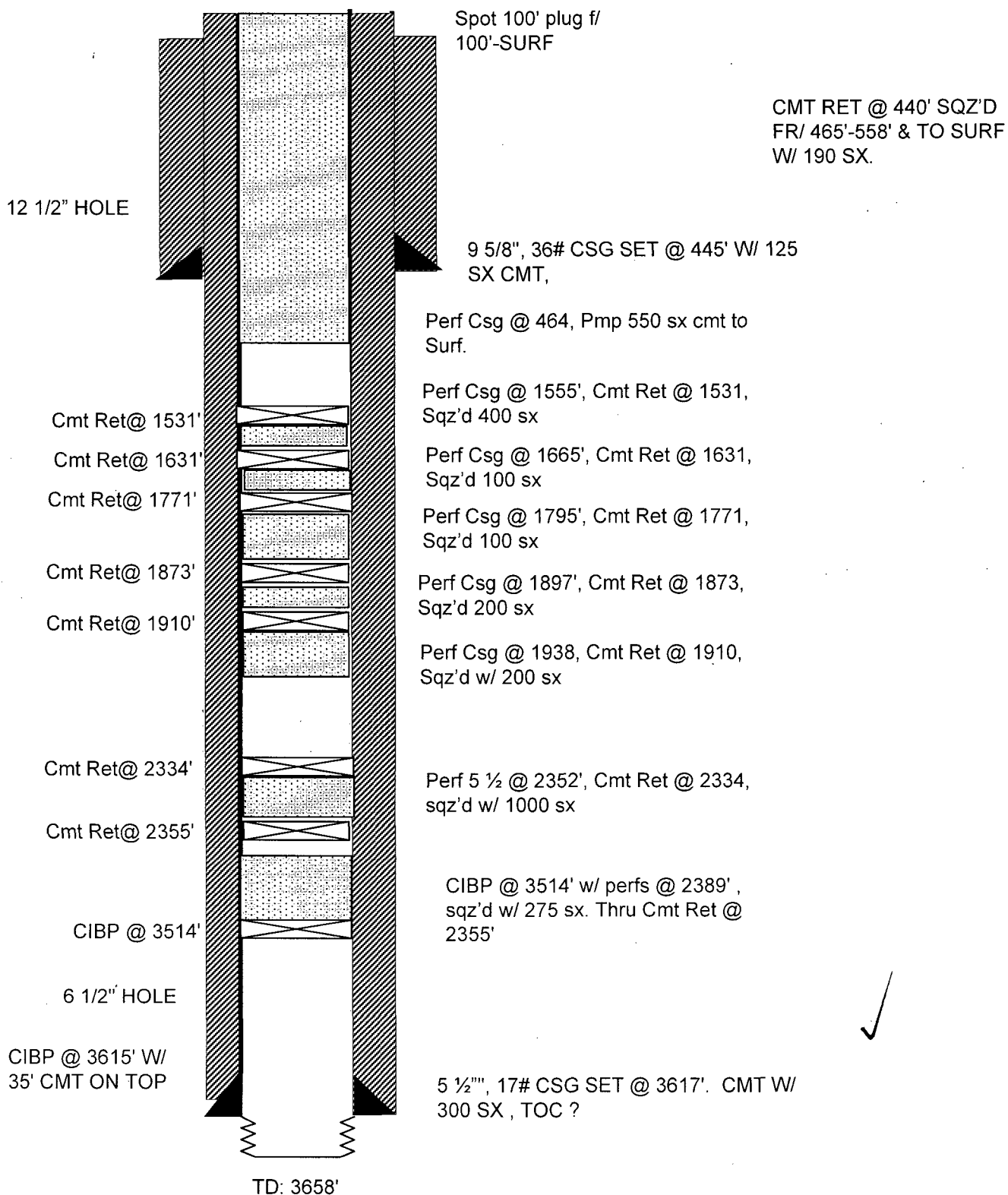
EXXON COPR.

N.M. STATE M #2

660' FSL & 1880' FEL, SEC 18, T22S, R37E

LEA CO.

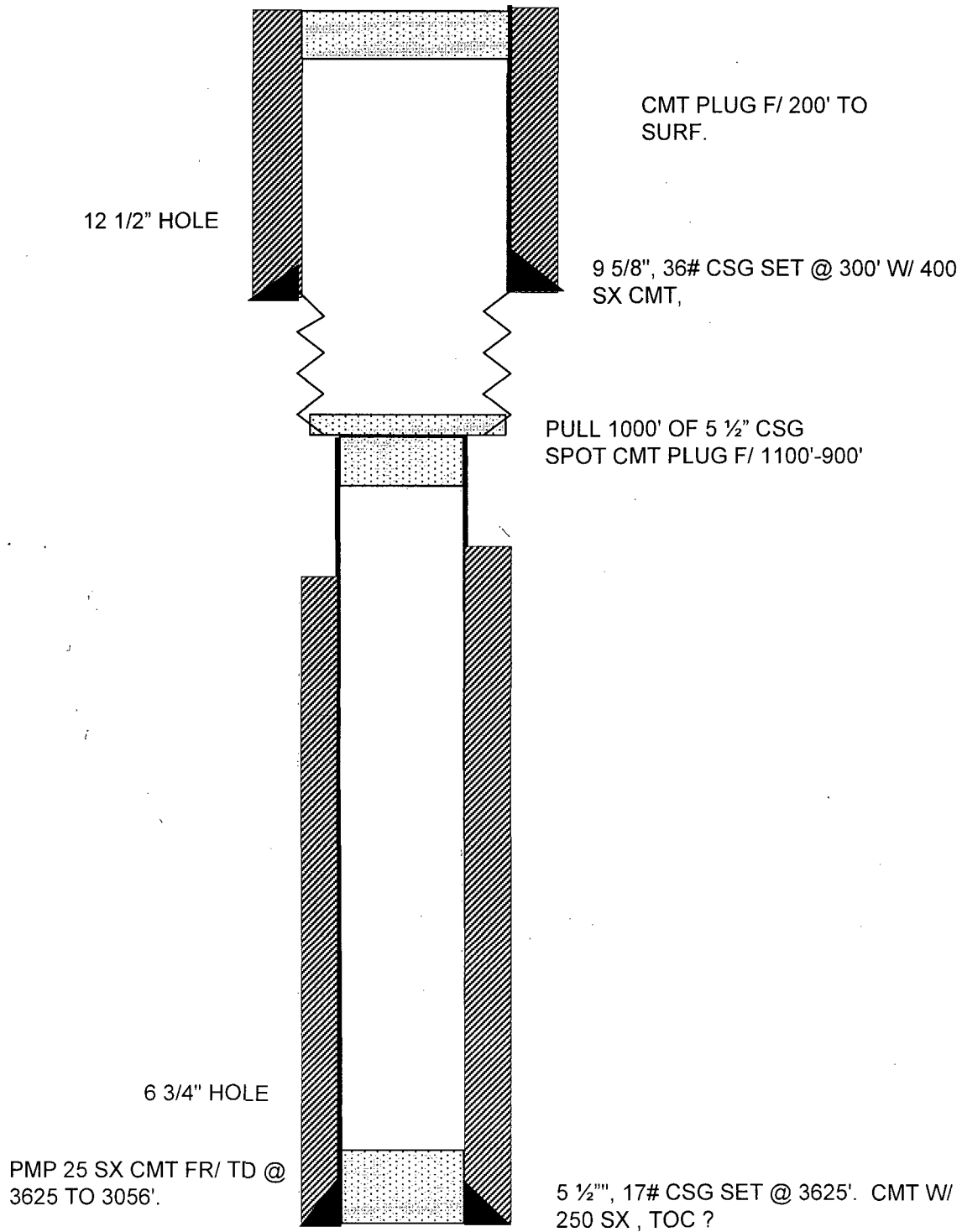
API: 30-025-10353



~~EXXON~~
~~CHEVRON CORP.~~

P&A"D 11/28/50

N.M. STATE M #3
660' FSL & 660' FEL, SEC 18, T22S, R37E
LEA CO.
API: 30-025-10354



Active Injector

~~WOOD-McSHANE & THAMES~~

GP II Energy Inc.

N.M. STATE M #42

892' FWL & 1650' FNL, SEC 19, T22S, R37E

LEA CO.

API: 30-025-10369

8 3/4" HOLE

7", 23# CSG SET @ 291' W/ 200 SX
CMT,

6 1/4" HOLE

Perfs:
3654', 3660', 3691', 3709'

2 7/8 6.5# CSG SET @ 3769'. CMT W/225
SX, TOC : 2400' by TS

TD: 3770'

Active Oil
Producer

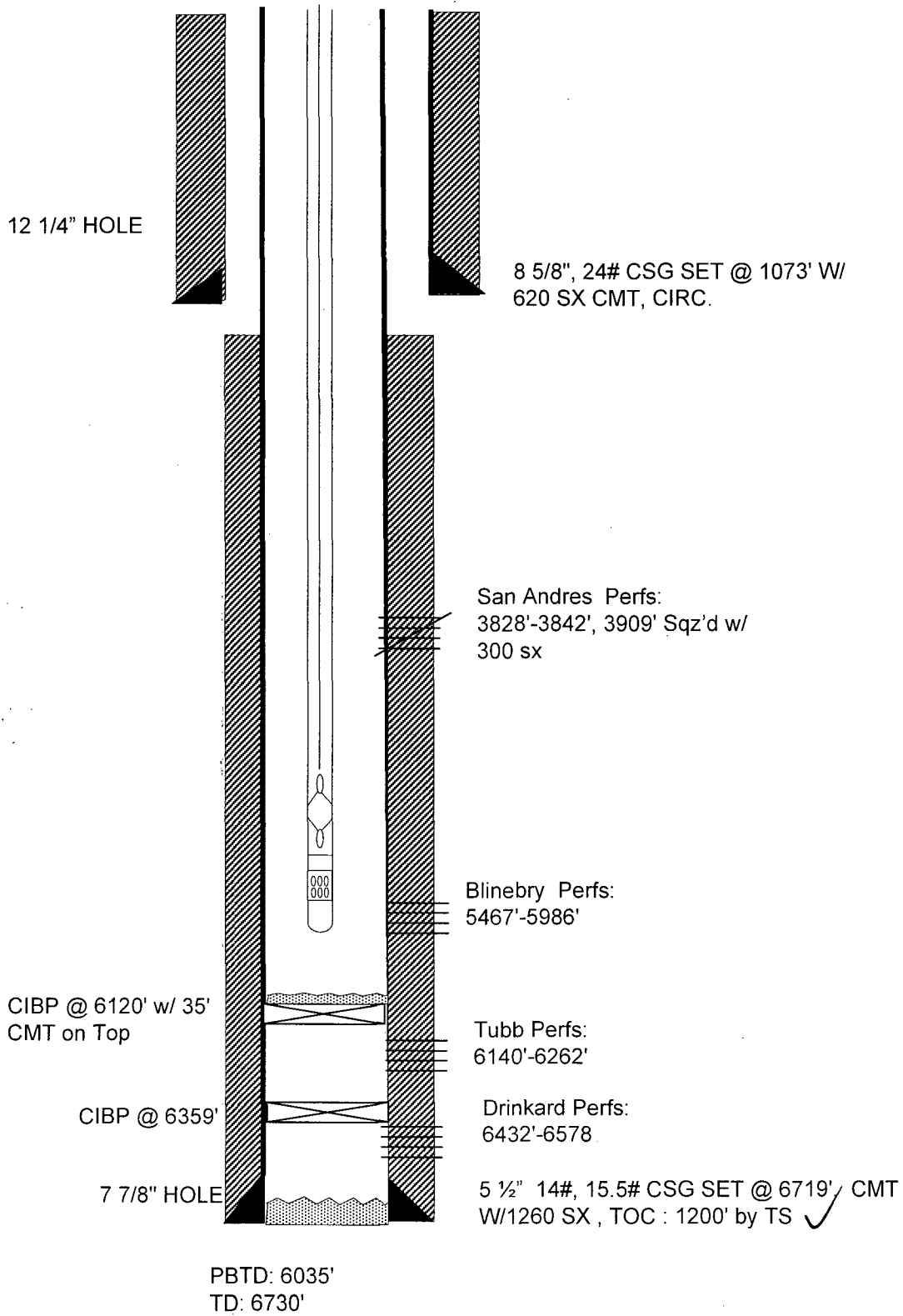
RANGE OPERATING NEW MEXICO INC.

N.M. STATE M #49

UNIT J, 2160' FSL & 2310' FEL, SEC 19, T22S, R37E

LEA CO.

API: 30-025-26015



Active Producer

RANGE OPERATING NEW MEXICO INC.

N.M. STATE M #52

1420' FSL & 2310' FEL, UNIT J, SEC 18, T22S,
R37E

LEA CO.

API: 30-025-37613.

11" HOLE

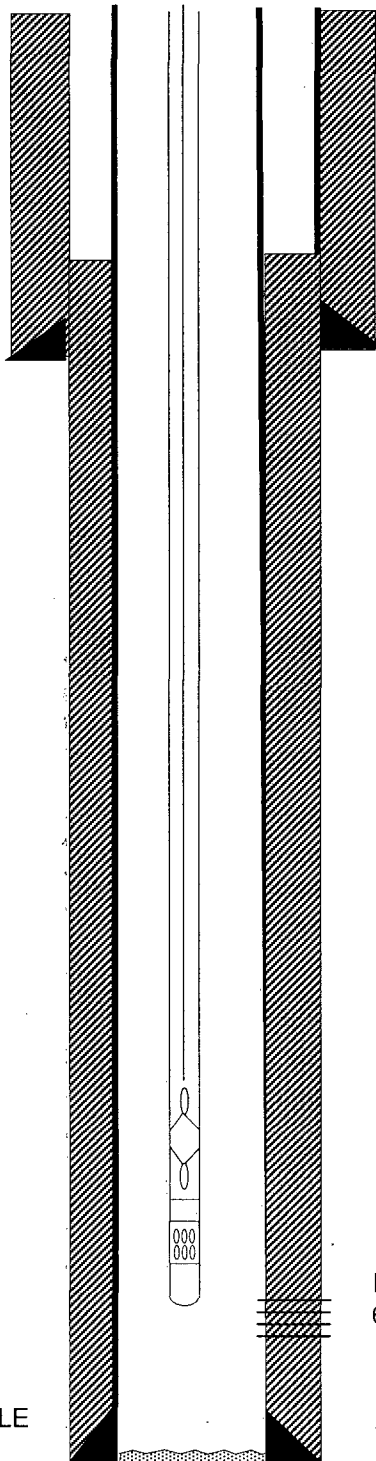
8 5/8", 24# CSG SET @ 1116' W/
700 SX CMT, CIRC.

7 7/8" HOLE

Perfs: W/ 3 JSPF
6470'-6474', 6564'-6568'

5 1/2" 17#, CSG SET @ 6800'. CMT W/
1260 SX, TOC : 916'

PBTD: '
TD: 6800'



Active Producer

N.M. STATE M #53

330' FSL & 1650' FEL, UNIT 0, SEC 18, T22S, R37E
LEA CO.

API: 30-025-37692

12-1/4" HOLE

8 5/8", 24# CSG SET @ 1097' W/
565 SX CMT, CIRC.

7 7/8" HOLE

Perfs: W/ 2 JSPF
5580'-84', 5515'-19', 5870'-
74', 5669'-73' (32 HOLES)

5 1/2" 17#, CSG SET @ 6864'. CMT.W/750
SX, TOC : 890'

TD: 6874'

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 233 WI

FORMATION: Grayburg

LOC: 2310' FSL & 1880' FWL

SEC: 18

GL: 3424.5'

CURRENT STATUS: Injector

TOWNSHIP: 22-S

COUNTY: Lea

KB to GL: 11.5'

API NO: 30-025-25878

RANGE: 37-E

STATE: NM

DF to GL: 10.5'

CHEVNO: EQ0892

8-5/8" OD, 24#/ft, K-55
Surf. Pipe set @ 1174' w/
525 sxs cmt. 12-1/4" hole.
Circ 90 sxs to Surface.

Tubing Detail: 01/14/94

KBTH: 11.00'
2-3/8" Nipple: 0.70'
116 Jts. 2-3/8" Duoline: 3544.91'
FL On-Off w/ 1.43" "F" prof: 1.60'
5-1/2" Sur-LOC Pkr: 3.52'
WL re-entry guide: 0.40'
Landed @: 3562.13'

Pkr @ 3562'

DV tool @ 3785'

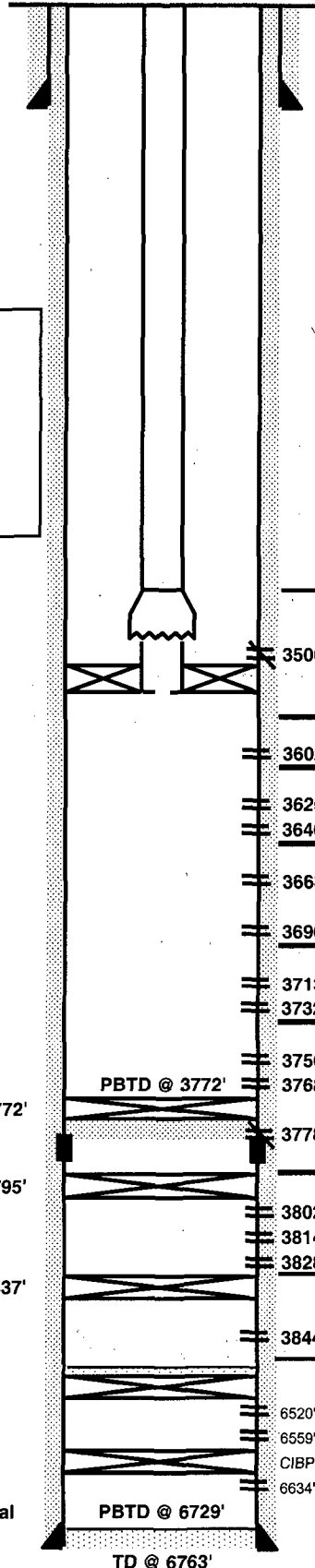
CICR @ 3772'

CIBP @ 3795'

CIBP @ 3837'

CIBP @ 6450' w/ 2 sxs cmt.

5-1/2" OD, 14 & 17#/ft., K-55
Csg set @ 6763' w/ 4585 sxs
in 2 stgs + 1 remedial stg.
Circ to surf following remedial
cmt sqz perfs @ 3500'



Date Completed: 06-06-78

Initial Injection: 78 BOPD / 27 MCFGPD / 78 BWPD

Initial Formation: Drinkard From: 6520' To: 6613

Completion Data:

Drill out to PBD @ 6729'. Run CBL. Perf 6634' & 6656' to cmt sqz. Would not take rate. Set CIBP @ 6630'. Selectively perf 6520' - 6613' (Drinkard). ACDZ & FRAC. Place well on production.

Workover History:

04-05-85 Set CIBP @ 6450' and cap w/ cmt. Run Dresser Atlas Spectra log from 4000' to 3400'. Perf 3844'-60' (San Andres) w/ 2 SPF. ACDZ w/ 1,000 gals. Place well on production.
07-12-85 Set CIBP @ 3770'. Selectively perf 3602'-84'. ACDZ w/ 2,000 gals. Place well on production.
07-01-87 ACDZ perfs 3602' to 3684' w/ 1,500 gals.
07-27-87 Scale inhibitor treat down casing w/ 110 gal Welch WA824
10-26-88 Dump acid job w/ 1500 gal 15% HCl.
11-16-88 Scale inhibitor treat down casing w/ 110 gal CH504.
03-09-90 Scale inhibitor treat down casing w/ 110 gal CH505.
03-29-93 POOH w/ prod. equip. Test csg to 500 psi. Swab test perfs 3668' to 3684'. FER 11 BPH. Swab test perfs 3620' to 3644'. FER 12 BPH. Swab test perfs 3602' to 3609'. FER 11 BPH. RIH w/ bit and drill out CIBP @ 3770'. RIH to 6400'. Spot P&A mud from 6400' to 3800'. Well started flowing. Run prod. equip. Place well on production w/ rod pump.
05-26-93 Run subpump and place well on production test. Producing 50 bopd, 5183 bwpd, and 121 mcfcpd.
12-29-93 MIRU. Set CIBP @ 3837'. Selectively perf from 3802' to 3830'. Breakdown and acidize perfs w/ 300 gal. Swab test 3802' to 3830'. FER 22 BPH w/ 3% oil cut. Set CIBP @ 3795'. Perf 3778' - 3784' w/ 2 spf. Breakdown and acidize 3778' - 3784'. Swab test 3778' - 84'. FER 25 BPH w/ 1% oil cut. Set CICR @ 3772' and cmt sqz perf 3778' - 84'. Perf 3768' - 70' w/ 2 spf. Breakdown and acidize. Swab test 3768' - 70'. Swab down. Perf 3696' 701', 3713' - 23', 3732' - 46', and 3756' - 3760'. Selectively breakdown new and old perf w/ acid. Swab test. Run injection equipment.
6/3/98: CO and acid w/ CTU: 3668'-3770' w/ 2000 gal 15% HCl using 70Q foam down backside as diverter.

Additional Data:

T/Penrose @ 3415'
T/AGU @ 3586'
T/Grayburg Zone 1 @ 3612'
T/Grayburg Zone 2 @ 3652'
T/Grayburg Zone 3 @ 3712'
T/Grayburg Zone 4 @ 3748'
T/Grayburg Zone 5 @ 3794' (Base of AGU due to Zia Energy Rights)
T/San Andres @ 3832'
T/Glorietta @ 5090'
T/Blaine @ 5212'
T/Tubb @ 6196'
T/Drinkard @ 6440'

FILE: WBS233.XLS

TDS: 8/11/98

Active Producer

BP AMERICA PROD.

STATE MCDONALD # 21
330' FNL & 330' FEL, UNIT A, SEC 18, T22S, R36E
LEA CO.
API: 30-025-09015

11" HOLE

8 5/8", 32# CSG SET @ 332' W/ 150
SX CMT, CIRC.

7 7/8" HOLE

Perfs: W/ 2 JSPF
2720'-30', 2780'-88', 2748'-
58', 2816', 2817', 2833',
2823', 2849', 2850', 2873',
2892', 2901', 2911', 2921',
2922', 3016'-26', 3178'-84',
3204'-10', 3230'-40', 3262'-
70', 3282'-90'

4 1/2" 9#, CSG SET @ 3503'. CMT W/150
SX, TOC ?

TD: 3716'

Active Producer

AMERADA HESS CORP.
Apache Corporation

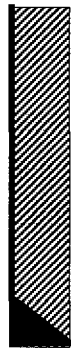
STATE PA #1

330' FNL & 330' FEL, UNITK, SEC 18, T22S, R37E

LEA CO.

API: 30-025-10342

11" HOLE



8 5/8", 32# CSG SET @ 338' W/ 125
SX CMT, CIRC.

7 3/4" HOLE



Perfs: OH
3640'-3724'

5 1/2", 14#, CSG SET @ 3640'. CMT W/150
SX, TOC ?

TD: 3724'



InActive
Producer

~~CHEVRON U.S.A. / AMERADA HESS CORP.~~

Apache Corporation

AGU # 241 / STATE PA #2

660' FNL & 1980' FWL, UNIT N, SEC 18, T22S, R37E
LEA CO.

API: 30-025-10343

9 7/8" HOLE



7 5/8", 24# CSG SET @ 312' W/ 100
SX CMT, CIRC.



7 3/4" HOLE



Perfs: OH
3640'-3724'

5 1/2", 17#, CSG SET @ 3640'. CMT W/150
SX, TOC : 2300 BT TS

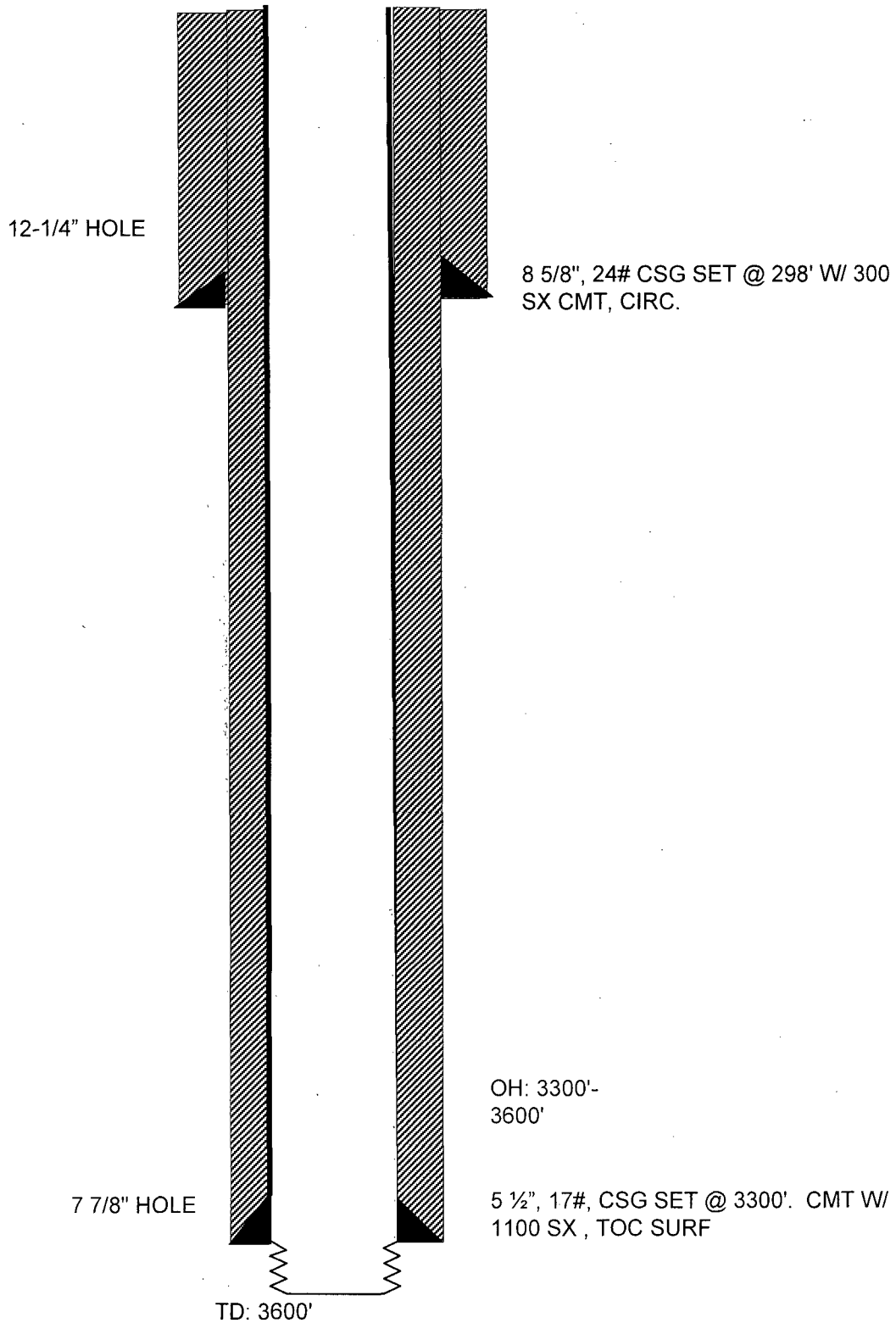


TD: 3724'



APACHE CORP

STATE PA #5
780' FSL & 1980' FWL, UNIT N, SEC 18, T22S, R37E
LEA CO.
API: 30-025-26613





September 4, 2007

Millard Deck Estate
c/o Harding & Carbone, Inc.
3903 Bellaire Blvd.
Houston, TX 77025

Re: Surface Owner Notice
Application to Convert Well to Injection
Arrowhead Grayburg Unit #241

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division an application to convert a well to injection. Our records indicate that you are a surface owner. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward

Kristy Ward

Regulator



For delivery information visit our website at www.usps.com

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Restricted Delivery Fee
(Endorsement Required)

Total Postage & Fees \$

Surface owner

Postmark
Here

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Street, Apt. No.;
or PO Box No. *3903 Bellaire Blvd*
City, State, ZIP+4 *Houston TX 77025*

Midland, Texas 79701 • (432) 682-8873 • Fax: (432) 687-0862



September 24, 2007

Apache Corporation
P.O. Box 1849
Eunice, NM 88231

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

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P.O. Box 1849	
City, State, ZIP+4	
Eunice NM 88231	



September 24, 2007

GP II Energy, Inc.
P.O. Box 50682
Midland, TX 79710

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

4146 2967 1362 0000 0742 2007

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Street, Apt. No.; or PO Box No. <i>PO Box 50682</i>	
City, State, ZIP+4 <i>Midland, TX 79710</i>	
PS Form 3800, June 2002 See Reverse for Instructions	

10 · Midland, Texas 79701 · (432) 682-8873 · Fax: (432) 687-0862



September 24, 2007

BP America Production Co.
P.O. Box 1089
Eunice, NM 88231

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

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Total Postage & Fees	\$
Postmark Here	
Sent To BP America Production	
Street, Apt. No., or PO Box No. PO Box 1089	
City, State, ZIP+4 Eunice, NM 88231	
PS Form 3800, June 2002 See Reverse for Instructions	



September 24, 2007

Range Operating New Mexico Inc.
777 Main Street, Ste. 800
Ft. Worth, TX 76102

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Here	
Sent To Range Operating New Mexico Inc. Street, Apt. No., or PO Box No. 777 Main St., Ste 800 City, State, ZIP+4 Ft Worth TX 76102	
PS Form 3800, June 2002 See Reverse for Instructions	



September 24, 2007

ExxonMobil Corporation
P.O. Box 4358
Houston, TX 77210-4358

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To <i>Exxon Mobil Corp.</i>	
Street, Apt. No., or PO Box No. <i>PO Box 4358</i>	
City, State, ZIP+4 <i>Houston, TX 77210-4358</i>	
PS Form 3800, June 2002 See Reverse for Instructions	

0 · Midland, Texas 79701 · (432) 682-8873 · Fax: (432) 687-0862



September 24, 2007

Chevron U.S.A., Inc.
15 Smith Rd.
Midland, TX 79705

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

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PS Form 3800, June 2002 See Reverse for Instructions

0 · Midland, Texas 79701 · (432) 682-8873 · Fax: (432) 687-0862



September 24, 2007

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Re: Offset Operator Notification

To Whom It May Concern:

This letter is to notify you that XTO Energy Inc. has submitted to the Oil Conservation Division, an application to convert a well to injection. Our records indicate that you are an offset operator. Attached is a copy of the application sent to the Oil Conservation Division for your review. If you have any questions please call me at 432-620-6740.

Sincerely,

Kristy Ward
Regulatory

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
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<small>For delivery information visit our website at www.usps.com</small>	
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Postmark Here	
Sent To <u>Rice Operating</u>	
Street, Apt. No., or PO Box No. <u>122 W. Taylor</u>	
City, State, ZIP+4 <u>Hobbs NM 88240</u>	
PS Form 3800, June 2002	
See Reverse for Instructions	

DISTRIBUTION		
SANTA FE		
FILE		
U.S.O.S.		
LAND OFFICE		
OPERATOR		

NI TO OIL CONSERVATION COMMISSION

Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. B-934	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator Amerada Hess Corporation		8. Farm or Lease Name State P "A"	
3. Address of Operator Drawer D, Monument, NM 88265		9. Well No. 2	
4. Location of Well UNIT LETTER <u>N</u> <u>1980'</u> FEET FROM THE <u>West</u> LINE AND <u>660'</u> FEET FROM THE <u>South</u> LINE, SECTION <u>18</u> TOWNSHIP <u>22 S</u> RANGE <u>37 E</u> NMPM.		10. Field and Pool, or Wildcat Arrowhead	
15. Elevation (Show whether DF, RT, GR, etc.) 3432' GR		12. County Lea	

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

June and July 1977

Ran 3-7/8" bit on 2-3/8" tbg. Checked top of fill at 315' washed and circulated and drilled to 364'. Recovered red bed. Hole caving in. Mudded up and drilled and washed to 368' w/3 1/2" EUE tbg. and 6-5/8" cut-lip shoe. Ran notched 1 1/2" tbg. cplg. on 1 1/2" EUE tbg, inside 3 1/2" tbg and drilled and washed inside of 5 1/2" csg. to 680' and outside of 5 1/2" csg. to 801', stacked out 1 1/2" tbg. and pulled 3 1/2" tbg. Ran turned down jt. of 7" csg. as wash-over shoe on 5 1/2" 14# csg. and circulated and washed over top of 5 1/2" csg. to 388'. Hung off 5 1/2" csg. and pulled 1 1/2" tbg. Ran 4-3/4" bit on 2-3/8" tbg. and hit metal at 389'. Pulled tbg. and bit. Ran mule shoe jt. 2-3/8" tbg. and washed to 472'. Pulled tbg. and ran 4-3/4" bit and 4-3-1/8" DC's on 2-3/8" tbg. and circulated, drilled and washed to 621'. Ran McCullough collar locator which indicated csg. fr. 350' to 392', no csg. fr. 392' to 448', possible junk fr. 448' to 452', no indication of pipe fr. 452' to 476'. Ran skirted 4-3/4" bit, 4-3-1/8" DC's on 2-3/8" tbg. and drilled to 906'. Pulled and laid down 2-3/8" tbg. Ran 1 1/2" tbg. to 906' and pumped 45 sks. of class C cement mixed w/2% CaCl. Pulled 1 1/2" tbg. up, WOC and found no cement fill. Pumped 50 sks class C cement mixed w/2% CaCl, pulled 1 1/2" tbg. up, WOC and checked top of cement at 461'. Pulled and laid down 1 1/2" tbg. Pumped 425 sks class C cement down 5 1/2" csg. to 388' with circulation out 7-5/8" csg. Installed P&A marker. Procedures witnessed & approved by Mr. M. Crossland. Completed 7-29-77

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED E. B. Fisher TITLE Supv. Admin. Serv. DATE 8-2-77

APPROVED BY Eddie W. Dean TITLE OIL & GAS INSPECTOR DATE NOV 21 1977
CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	
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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Amerada Hess Corporation	8. Farm or Lease Name State PA
3. Address of Operator Drawer "D" - Monument, New Mexico 88265	9. Well No. 2
4. Location of Well UNIT LETTER <u>N</u> <u>1980</u> FEET FROM THE <u>West</u> LINE AND <u>660</u> FEET FROM THE <u>South</u> LINE, SECTION <u>18</u> TOWNSHIP <u>22S</u> RANGE <u>37E</u> N.M.P.M.	10. Field and Pool, or Wildcat Arrowhead
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Clean out hole. Plug lower casing with cement. Spot cement plug at surface casing shoe and at surface casing top. Fill casing voids with brine mud. Clean location and abandon well.

Casing has parted and attempts to enter were unsuccessful because of formation cave-in and misalignment of lower section.

Expire 7/6/77

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED H.D. Porter TITLE Admin. Serv. Supv. DATE July 2, 1976

Orig. Signed by
John Runyan
Geologist

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

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

API NO. (assigned by OCD on New Wells)	30-025-10343 ✓
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	B-034-13

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					
1a. Type of Work: DRILL <input type="checkbox"/> RE-ENTER <input checked="" type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>			7. Lease Name or Unit Agreement Name Arrowhead Grayburg Unit		
b. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			8. Well No. 241		
2. Name of Operator Chevron USA Inc.			9. Pool name or Wildcat Arrowhead Grayburg		
3. Address of Operator P.O. Box 1150 Midland TX 79702 ATTN: Rm 4111			10. Proposed Depth ± 4500		
4. Well Location Unit Letter N : 660 Feet From The South Line and 1980 Feet From The West Line			11. Formation Grayburg		
Section 18 Township 22S Range 37E NMPM LEA County			12. Rotary or C.T.		
13. Elevations (Show whether DF, RT, GR, etc.) 3432 GR		14. Kind & Status Plug. Bond		15. Drilling Contractor	
17. Existing PROPOSED CASING AND CEMENT PROGRAM		16. Approx. Date Work will start 6/1/91			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	7 7/8	26	312		
	5 1/2	17	3640	150 TOC	2300 T.S.

old TD 3724
DEEPEN WELL ± 4500' w/4 3/4" bit under-ream to 6 1/2" hole, Log.
3000 psi. BOPE
Mist + Brine Mud System
Well NAME changed from Amerada State "PA" #2
Api #

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE E.O. Doherty TITLE J.A. Delg DATE 4/30/91
TYPE OR PRINT NAME E.O. DOHERTY TELEPHONE NO. 687-7812

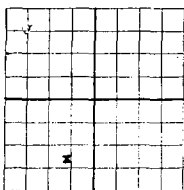
(This space for State Use)

APPROVED BY Paul Kautz
Geologist

DATE MAY 02 1991

CONDITIONS OF APPROVAL, IF ANY.

Permit Expires 6 Months From Approval
Date Unless Drilling Underway.



AREA AND ADJACENT

LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
DUPLICATE
WELL RECORD

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE.

Amerasia Petroleum Corporation

Monument, New Mexico

State PA _____ Well No. 2 to _____ of Sec. 36 T. 28S
 Lease 37s Arrow Head Lea
 R. _____ N. M. P. M. _____ Field. _____
 Well is _____ feet _____ of the _____ line and _____ feet _____ of the _____ line of _____ Sec. 12-22-37s County.
 If State land the oil and gas lease is No. _____ Assignment No. _____
 If patented land the owner is _____ Address _____
 If Government land the permittee is _____ Address _____
 The Lessee is Amerasia Petroleum Corporation Address Box #5040, Tulsa, Oklahoma
 Drilling commenced July 4, 1940 Drilling was completed July 11, 1940
 Name of drilling contractor Roman Drilling Company Address Fort Worth, Texas
 Elevation above sea level at top of casing 5438' feet. X
 The information given is to be kept confidential until _____ 19____

OIL SANDS OR ZONES

No. 1. from 5473' to 5724' TD. No. 4. from _____ to _____
 No. 2. from _____ to _____ No. 5. from _____ to _____
 No. 3. from _____ to _____ No. 6. from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1. from _____ to No Water feet.
 No. 2. from _____ to _____ feet.
 No. 3. from _____ to _____ feet.
 No. 4. from _____ to _____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADED PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	TO	PURPOSE
7-5/8"	28#	8	Smis.	312'	Texas				
5-1/2"	14#	8	Smis.	3459'	Quide				
5-1/2"	17#	8	Smis.	190'					

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHEN SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
7-7/8"	7-5/8"	312'	25 / 100	Halliburton		
6-3/4"	5-1/2"	3449'	150	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material No plugs or adapters Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

Results of shooting or chemical treatment _____

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 5724' TD feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing July 22, 1940 19____
 The production of the first 24 hours was 127.67 barrels of fluid of which 100 % was oil. No % emulsion; No % water; and No % sediment. Gravity, 55
 If gas well, cu. ft. per 24 hours 314,000 Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

L.L. Stanton Driller J. Ragan Driller
D.S. Luss Driller _____ Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 24th day of July 1940 at Monument, New Mexico Date July 24, 1940

Notary Public Ray O. M. Hill Name James M. Bell
 Position Farm Boss

My Commission expires 2-21-44 Representing AMERASIA PETROLEUM CORPORATION
 Address Monument, New Mexico

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	15'	15'	Cellar and substructure.
15'	280'	265'	Caliche
280'	309'	29'	Redbed
309'	320'	11'	Redbed and shells. Set 7-5/8" o 320' w/25 sacks.
320'	724'	404'	Redbed and shells.
724'	906'	182'	Redbed, Kerock.
906'	970'	64'	Redrock and shells
970'	1068'	118'	Redrock and shells
1068'	1145'	57'	Redrock and shells.
1145'	1237'	92'	Anhydrite
1237'	1610'	373'	Salt and anhydrite.
1610'	1640'	30'	Anhydrite.
1640'	2452'	812'	Anhydrite and salt.
2452'	2860'	408'	Anhydrite.
2860'	3008'	142'	Anhydrite and Lime.
3008'	3724' TD	722'	Lime. 5-1/2" casing set at 3640' w/150 sacks.

o TD 3724' Ran 3714' 2" NPS Seamless tubing. Well flowed through tubing before tubing landed. Well flowed 227.67 barrels pipe line oil in 8 hours on 3/4" choke, with daily gas rate of 224,300 and gas oil ratio of 818. Completed 7-21-40

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent, within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<input checked="" type="checkbox"/>	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Monument New Mexico

July 21, 1940

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Amerada Petroleum Corporation
Company or Operator

State PA
Lease

Well No. 2 In the

SE 1/4 of SW 1/4 of Sec. 18, T. 22S, R. 37E, N. M. P. M.,

Arrow Head Field, Lea County

The dates of this work were as follows: 7-19-40

Notice of intention to do the work was (witnessed) submitted on Form C-102 on 7-19-40 19
and approval of the proposed plan was (witnessed) obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

This well was drilled to a depth of 3646' and 5-1/2" Sals. casing was set at 3640' w/ 100 sacks common cement and 50 sacks inner cement.

Pump pressure of 1200# was applied to the pipe and connections, the valves closed and the pressure within observed for a period of 30 minutes. There was no drop in pressure. The cement plug was then drilled from within the pipe and the same pressure test again applied without drop in pressure.

Drilling was resumed 7-20-40

Witnessed by Cecil Province Name Rowan Drilling Company Company Tool Pusher Title

Subscribed and sworn to before me this

I hereby swear or affirm that the information given above is true and correct.

21 day of July, 1940

Name Jess M. Bell

Position Farm Boss

Representing Amerada Pet. Corp.
Company or Operator

My Commission expires 2-21-44

Address Monument New Mexico

Remarks:

Roy Yarbrough
Name

OIL & GAS INSPECTOR

Jones, William V., EMNRD

From: Kristy_Ward@xtoenergy.com
Sent: Wednesday, November 14, 2007 9:42 AM
To: Jones, William V., EMNRD
Subject: Re: WFX Application on behalf of XTO: AGU #241 (30-025-31535)

Attachments: State PA #5.doc; State PA #1.doc; State PA #2.doc; State McDonold 2 # 20.doc



State PA #5.doc
(276 KB)



State PA #1.doc
(306 KB)



State PA #2.doc
(291 KB)



State McDonold 2 #
20.doc (293...

Mr. Jones,
Below in red are the responses to your request. Hope this is o.k. to send this way. I will also mail you an original copy of this along with the updated cover letters you requested.

Kristy S. Ward
XTO Energy, Inc.
Ph: 432-620-6740
Fax: 432-684-9681
kristy_ward@xtoenergy.com

"Jones, William
V., EMNRD"
<William.V.Jones
@state.nm.us>

10/11/2007 08:53
PM

<Kristy_Ward@xtoenergy.com>

To

cc

"Ezeanyim, Richard, EMNRD"
<richard.ezeanyim@state.nm.us>,
"Brooks, David K., EMNRD"
<david.brooks@state.nm.us>

Subject

WFX Application on behalf of XTO:
AGU #241 (30-025-31535)

Hello Ms. Kristy Ward:

Thank you for this application and all the preparation (and all the wellbore diagrams)

After reviewing this application, the I have the following comments and requests:

1) There are three old inactive wells located very close to this proposed injection well that have sketchy records: State PA Wells No. 1, 2, and 5
Please research your records for these and send a writeup on each showing whether these wells are cemented properly to internally and externally isolate injection fluid from any movement up into other formations or the

salt.

Please see Wellbore Diagrams that are attached.

(See attached file: State PA #5.doc) (See attached file: State PA #1.doc)
(See attached file: State PA #2.doc)

2) The proposed injection well has been TAed for many years. How important will this conversion to an injector be for this waterflood? (a little more about this)

This well was TA'd on 8/20/01. This conversion will take the place of the recently plugged AGU #246. We want to make sure we maintain the current level of production which has fallen off about 10 BOPD, since we lost the AGU #246.

3) Please send a Wellbore diagram on the McDonald State AC 2 Well No. 20 API NO. 30-025-08905 (it is also in the AOR).

Wellbore Diagram Attached.
(See attached file: State McDonold 2 # 20.doc)

4) Has there been any bradenhead problems in this Area of Review? If so, what repairs have been done.

No Bradenhead problems.

5) What sort of injection pressures are common in the Southern portion of this waterflood? Are the producing wells being pumped off?

735 psi. Yes all wells are pumped off.

6) The notices sent out did not mention that the affected party has the right to object to this conversion to the Division.

A) Please expand your cover letter to mention this 15 day suspense period and send only this cover letter to the surface owner and also to BP America at its Houston or Tulsa Address

Copy of letter is attached. Copy of letter was mailed October 19, 2007.

B) Please re-notice in the County Newspaper with an expanded ad - specifically stating the depths of injection and the footage, spot, S-T-R and API of the proposed injection well.

Copy of letter is attached. Copy of letter was mailed October 19, 2007.

Please let me know the date these notices are mailed.

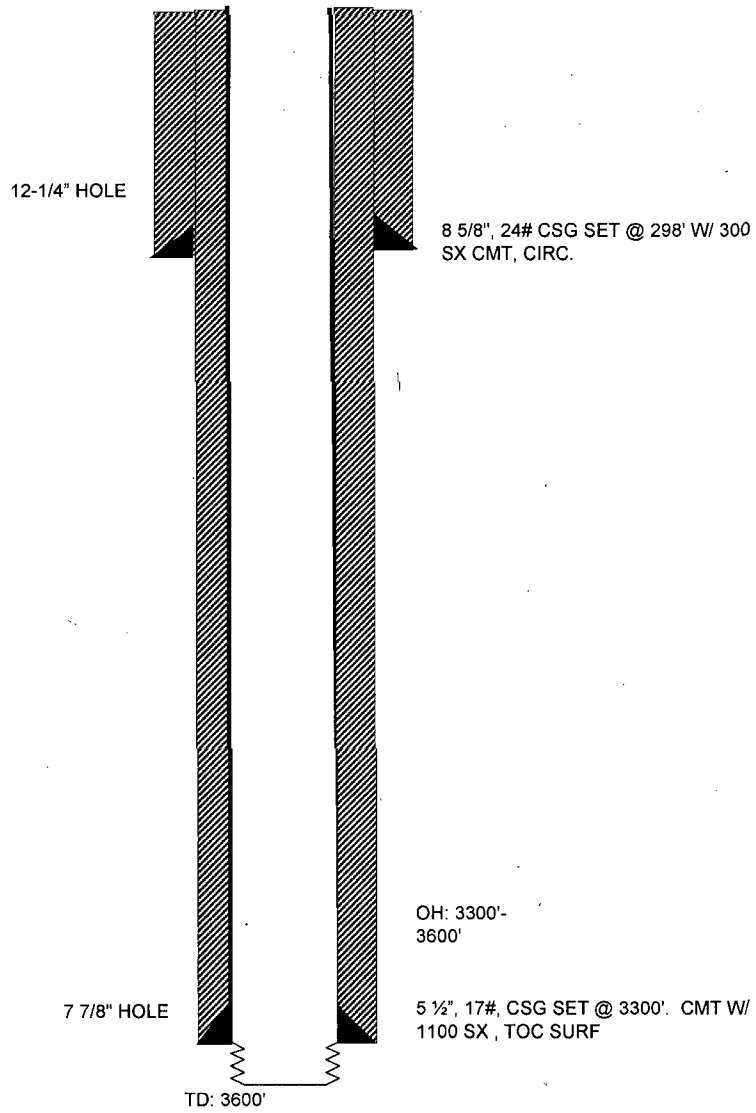
Thank You

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this

AMERADA HESS CORP

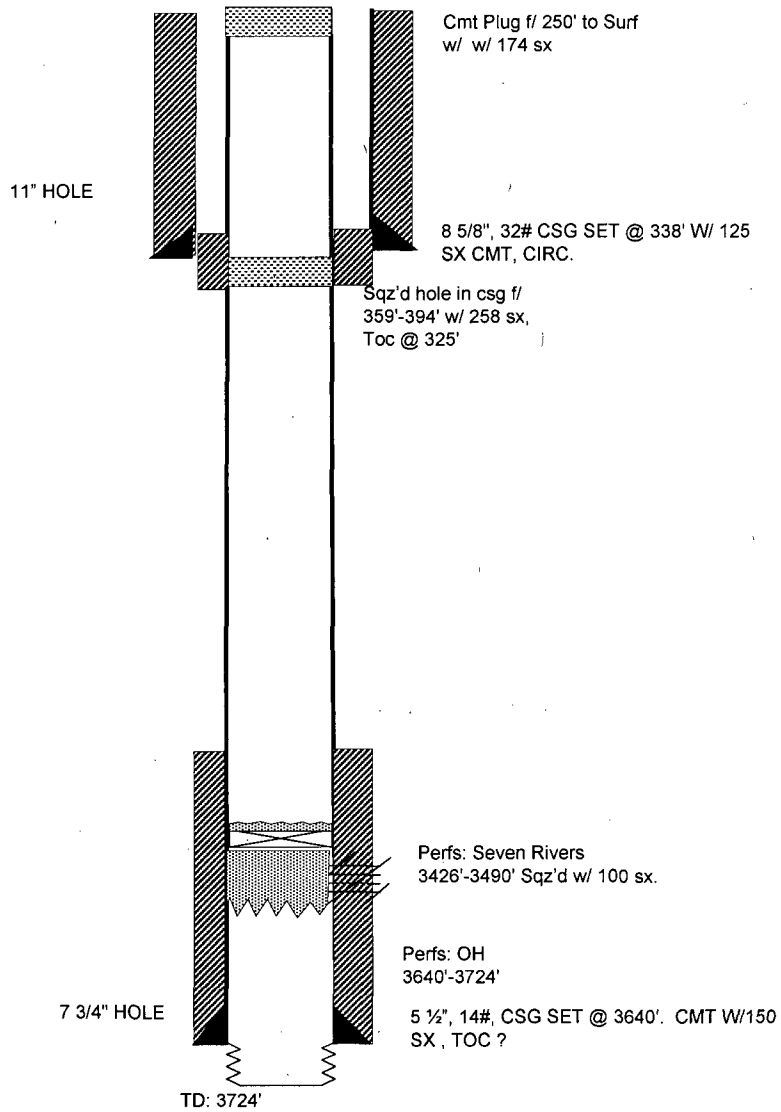
STATE PA #5
780' FSL & 1980' FWL, UNIT N, SEC 18, T22S, R37E
LEA CO.
API: 30-025-26613



Active Producer

AMERADA HESS CORP.

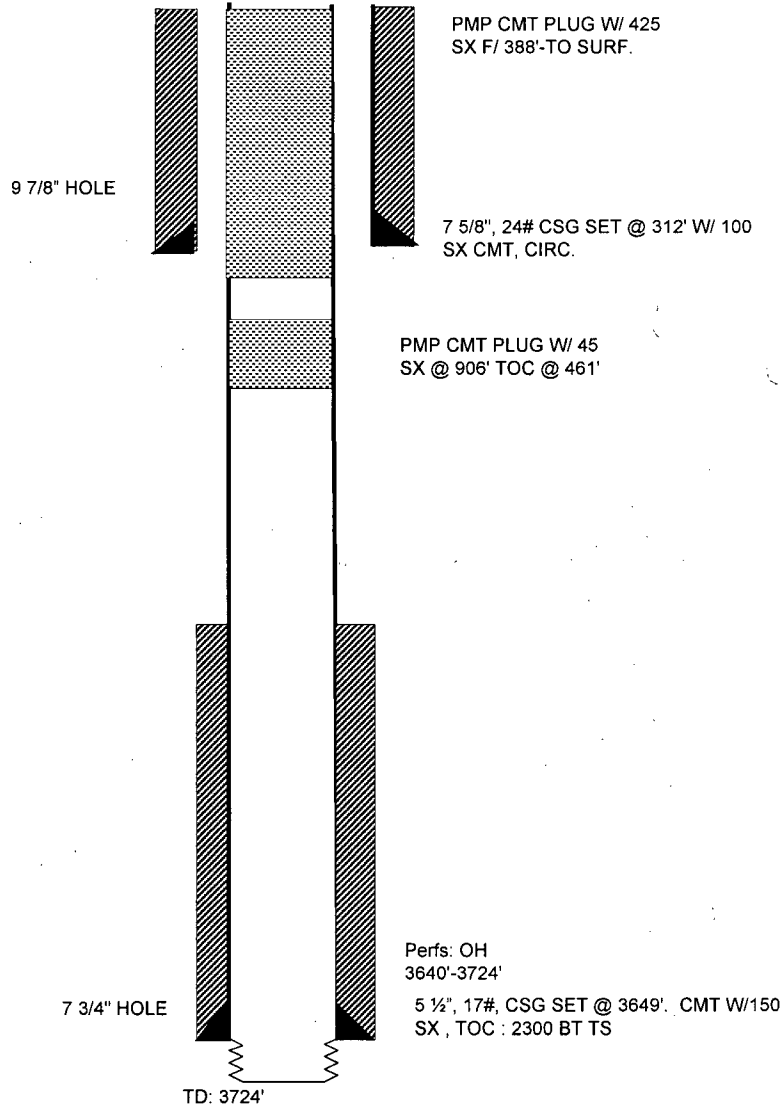
STATE PA #1
330' FNL & 330' FEL, UNITK, SEC 18, T22S, R37E
LEA CO.
API: 30-025-10342



InActive
Producer

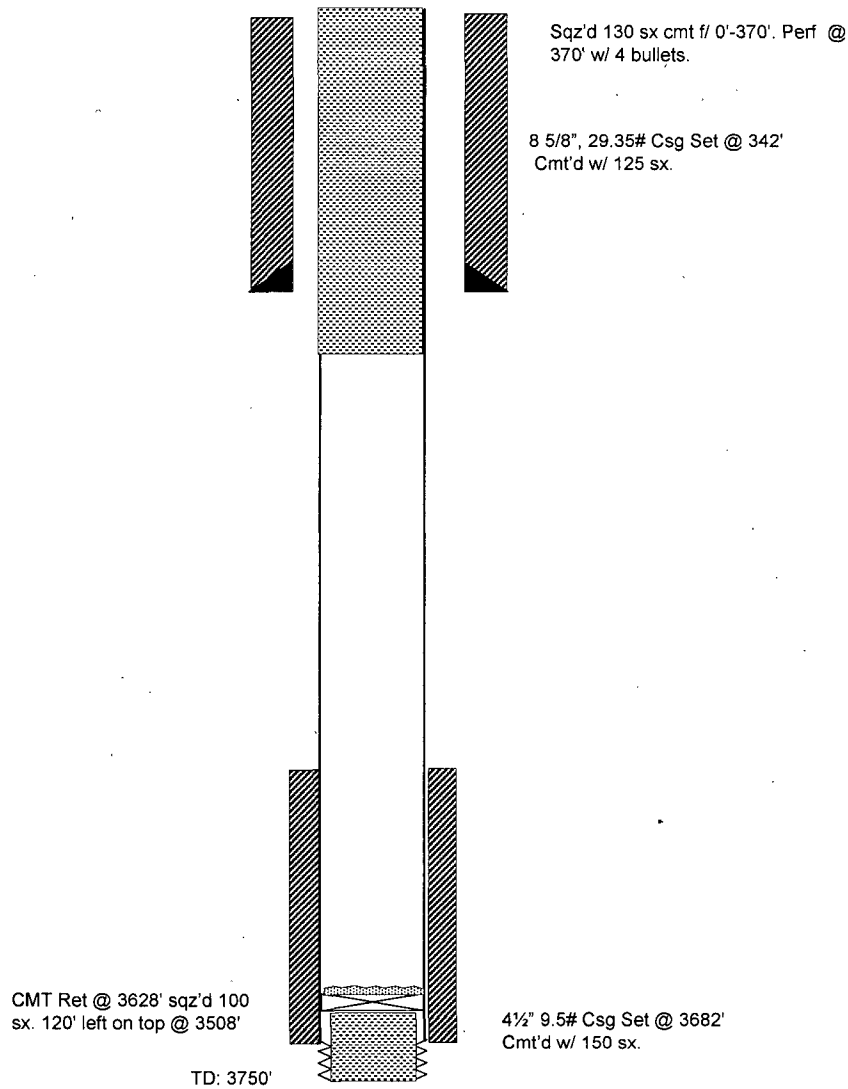
AMERADA HESS CORP.

AGU # 241 / STATE PA #2
660' FNL & 1980' FWL, UNIT N, SEC 18, T22S, R37E
LEA CO.
API: 30-025-10343



The Ohio Oil Company

STATE McDonald a/c 2 # 20
990' FSL & 330' FEL, UNIT P, S-13, T-22S,R-36-E
LEA CO.



Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, October 11, 2007 7:53 PM
To: 'Kristy_Ward@xtoenergy.com'
Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD
Subject: WFX Application on behalf of XTO: AGU #241 (30-025-31535)

Hello Ms. Kristy Ward:

Thank you for this application and all the preparation (and all the wellbore diagrams)

After reviewing this application, the I have the following comments and requests:

- 1) There are three old inactive wells located very close to this proposed injection well that have sketchy records: State PA Wells No. 1, 2, and 5
Please research your records for these and send a writeup on each showing whether these wells are cemented properly to internally and externally isolate injection fluid from any movement up into other formations or the salt.
- 2) The proposed injection well has been TAed for many years. How important will this conversion to an injector be for this waterflood? (a little more about this)
- 3) Please send a Wellbore diagram on the McDonald State AC 2 Well No. 20 API NO. 30-025-08905 (it is also in the AOR).
- 4) Has there been any bradenhead problems in this Area of Review? If so, what repairs have been done.
- 5) What sort of injection pressures are common in the Southern portion of this waterflood? Are the producing wells being pumped off?
- 6) The notices sent out did not mention that the affected party has the right to object to this conversion to the Division.
 - A) Please expand your cover letter to mention this 15 day suspense period and send only this cover letter to the surface owner and also to BP America at its Houston or Tulsa Address
 - B) Please re-notice in the County Newspaper with an expanded ad - specifically stating the depths of injection and the footage, spot, S-T-R and API of the proposed injection well.

Please let me know the date these notices are mailed.

Thank You

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

10/11/2007

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, November 15, 2007 9:04 AM
To: 'Kristy_Ward@xtoenergy.com'
Subject: RE: WFX Application on behalf of XTO: AGU #241 (30-025-31535)

Kristy:

I am releasing this to Mark today.

Not too happy about the State PA #2, for some reason when plugging it, they did not put a plug over the Grayburg or over the bottom of the Salt. I am not making replugging a part of the requirements, but am making a note of this for the file.

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

-----Original Message-----

From: Kristy_Ward@xtoenergy.com [mailto:Kristy_Ward@xtoenergy.com]
Sent: Wednesday, November 14, 2007 9:42 AM
To: Jones, William V., EMNRD
Subject: Re: WFX Application on behalf of XTO: AGU #241 (30-025-31535)

Mr. Jones,

Below in red are the responses to your request. Hope this is o.k. to send this way. I will also mail you an original copy of this along with the updated cover letters you requested.

Kristy S. Ward
XTO Energy, Inc.
Ph: 432-620-6740
Fax: 432-684-9681
kristy_ward@xtoenergy.com

"Jones, William
V., EMNRD"
<William.V.Jones
@state.nm.us>

10/11/2007 08:53
PM

<Kristy_Ward@xtoenergy.com>

To

cc

"Ezeanyim, Richard, EMNRD"
<richard.ezeanyim@state.nm.us>,
"Brooks, David K., EMNRD"
<david.brooks@state.nm.us>

Subject

WFX Application on behalf of XTO:
AGU #241 (30-025-31535)

Injection Permit Checklist 2/8/07

SWD Order Number WFX-829 Dates: Division Approved _____ District Approved _____

Well Name/Num: Cardinal Grayburg UNIT #241 Date Spudded: 1992

API Num: (30-) 025-31535 County: Lea

Footages: 660 FSL / 2075 FWL Sec 18 Tsp 225 Rge 37E

Operator Name: XTO ENERGY INC Contact: KRISTY Ward

Operator Address: 200 N. LORRAINE SUITE 800 MIDLAND TX 79705

Current Status of Well: TAED 8/21/01 Planned Work: Convert Inj. Tubing Size: _____

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface				
Intermediate				
Production	<u>7 7/8 5 1/2</u>	<u>3807</u>	<u>825</u>	<u>CIRC 805X</u>
Last DV Tool				
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion ☒ After Conversion ☒

Checks (Y/N): Well File Reviewed ☒ ELogs in Imaging ☒

Intervals:	Depths	Formation	Producing (Yes/No)
<u>Salt/Potash</u>	<u>1246-2458</u>		
Capitan Reef			
Cliff House, Etc:			
Formation Above			
Top Inj Interval	<u>3589</u>	<u>GBG</u>	<u>NO</u>
Bottom Inj Interval	<u>3860</u>	<u>GBG</u>	<u>NO</u>
Formation Below			

718 PSI Max. WHIP

NO Open Hole (Y/N)

NO Deviated Hole (Y/N)

Fresh Water: Depths: _____ Wells(Y/N) _____ Analysis Included (Y/N): _____ Affirmative Statement ☒

Salt Water Analysis: Injection Zone (Y/N/NA) _____ DispWaters (Y/N/NA) _____ Types: _____

Notice: Newspaper(Y/N) _____ Surface Owner _____ Mineral Owner(s) _____

Other Affected Parties: _____

AOR/Repairs: NumActiveWells 17 Repairs? _____ Producing in Injection Interval in AOR _____

AOR Num of P&A Wells 10 Repairs? _____ Diagrams Included? _____ RBDMS Updated (Y/N) _____

Well Table Adequate (Y/N) _____ AOR STRs: Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N) _____

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ This Form completed _____

Conditions of Approval: Sec _____ Tsp _____ Rge _____ Data Request Sent _____

Redo Newspaper & Surface owner NOTICE

AOR Required Work: _____

Required Work to this Well: _____

Rule 40 OK

3589
7178

State PA #2 is OK as long as casing does not corrode - not really plugged properly!!