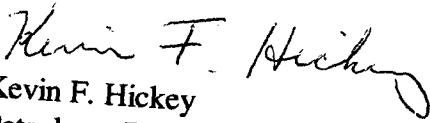


Sincerely,

A handwritten signature in black ink that reads "Kevin F. Hickey". The signature is written in a cursive style with a large, looping "H" and a long, sweeping underline.

Kevin F. Hickey
Petroleum Engineer
New Mexico Waterfloods

File
Attachments

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: ChevronTexaco Inc.
ADDRESS: 15 Smith Road Midland TX 79705
CONTACT PARTY: Kevin Hickey - Petroleum Engineer PHONE: 915-687-7260
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? X Yes No
If yes, give the Division order number authorizing the project: R-7766
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Kevin F. Hickey TITLE: Petroleum Engineer
SIGNATURE: Kevin F. Hickey DATE: Jan 10, 2003
- * 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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

EMSU Nos. 196, 222, 252, and 575
Conversion to Injection
Eunice Monument South Unit
Lea County, NM

INFORMATION FOR NMOCD FORM C-108

ITEM I

(See OCD Form C-108)

ITEM II

(See OCD Form C-108)

ITEM III

See attached wellbore schematics.

ITEM IV

(See OCD Form C-108)

ITEM V

This was originally submitted as Exhibit No. 28 Case No. 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). Smaller area maps relating to the conversions are attached.

ITEM VI

Attached are three tables. Table 1 is a list of all the Eunice Monument South Unit wells in the area of review. Table 2 is a list of all other wells that penetrated the injection interval in the area of review. Detailed wellbore schematics are included for those wells in Tables 1 and 2 as part of Item VI. Finally Table 3 is a list of all wells that are in the in the shallower Eumont field that did not penetrate the proposed injection interval. This is for information only.

ITEM VII

See attached table showing items VII (1), (2), and (3) for the subject wells of this C-108 application. Items VII (4) and (5) are consistent with the original C-108 application and its Exhibit No. 33a.

ITEM VIII

This was originally submitted as Exhibit No. 34a and 36 of Case No. 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). Copies of these Exhibits are enclosed.

ITEM IX

All wells will be restimulated with 15% Hydrochloric (HCl) acid prior to injection.

ITEM X

Logging and test data have been filed with the OCD.

ITEM XI

This was originally submitted as Exhibit No. 37 of Case 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). A copy of this Exhibit is enclosed.

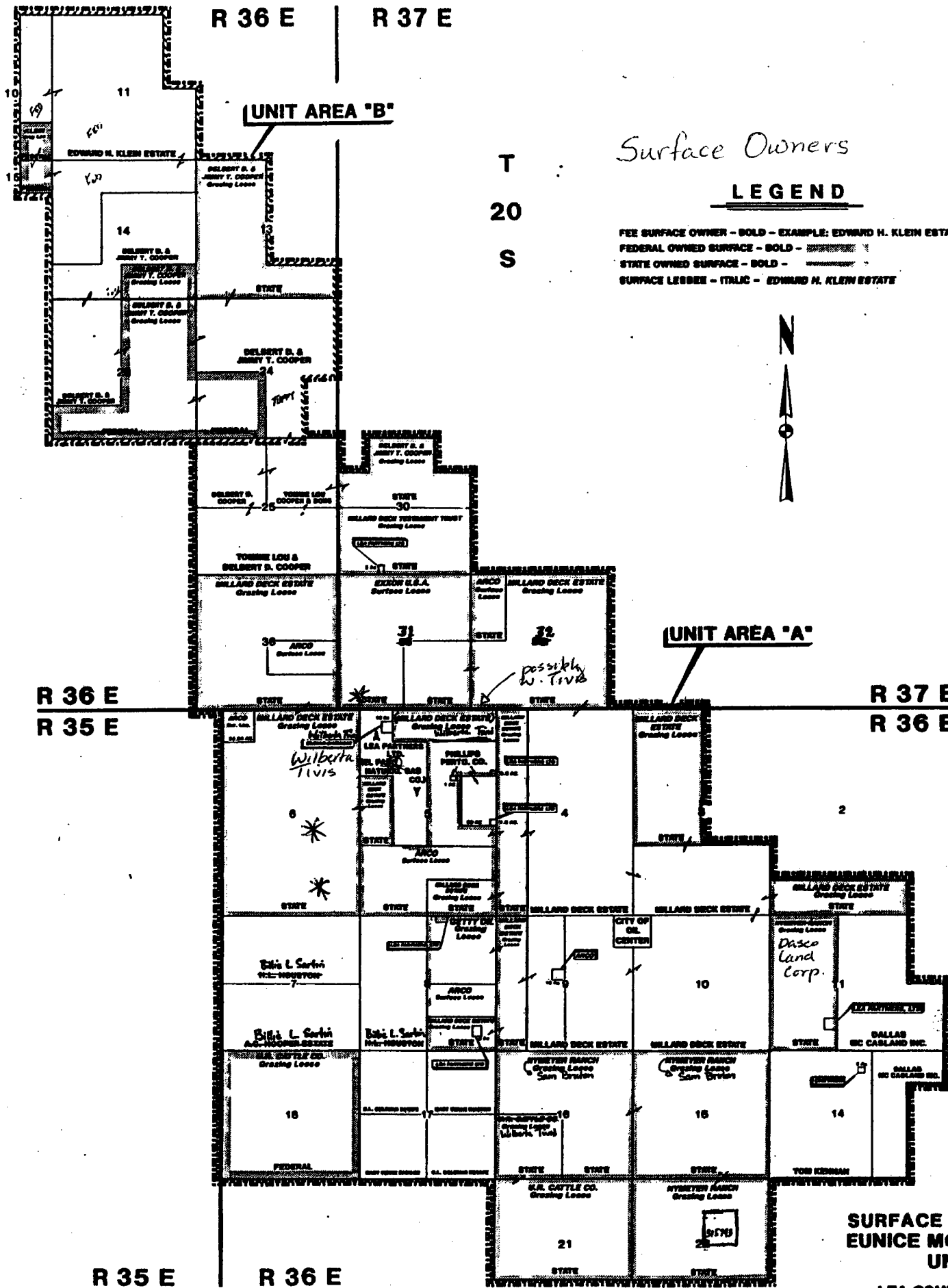
ITEM XII

This was originally submitted as Exhibit No. 38 of Case 8398 heard at a Commissioner's hearing on 11-07-84 (Order No. 7766 - effective 12-27-84). A copy of this Exhibit is enclosed.

**EMSU Nos. 196, 222, 252, and 575
Conversion to Injection
Eunice Monument South Unit
Lea County, NM**

ITEM XIII

All surface land owners and offset operators are being notified by Certified Mail with a copy of the C-108 Form. A legal notice was published in the Hobbs News-Sun on January 5, 2003. The actual newspaper ad and an affidavit of publication is included with this application.





PROPOSED WELL DATA SHEET

LEASE: EMSU
LOC: 3300' F S L & 1980' F E L
TOWNSHIP: 21S
RANGE: 36E UNIT: O
(formerly: H.T. Orcutt NCT-A #6)

WELL: 222
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Grayburg / San Andres DATE:
GL: 3573' STATUS: Injector
KB: 3573' API NO: 30-025-04531
DF: CHEVNO: FA 5673:01

Date Completed: 11/11/1936
Initial Production: 7 600 BOPD / 0 BWPD
Initial Formation: Grayburg
FROM: 3767' to 3873' / GOR 6420

Completion Data

11/12/36 ACDZ w/ 2000 gals acid.

Subsequent Workover or Reconditioning:

8/15/56 Install ppg. equipment.
4/25/74 ACDZ w/ 750 gals. A/W - 56 BO/ 6 BW. B/4 - 39 BO / 3 BWPD.
7/8/81 ACDZ w/ 750 gals.
1/88 Pulled PE. CO to 3873'. Deepen to 3948'. Log w/ GR, CCL, CNL, caliper. Ran PE. A/W - 3 BO/ 132 BW/ GOR 7666. B/4 - 5 BO/ 30 BW/ GOR 600.
12/99 Deepen to 4010. Convert to injection.

Additional Data:

T/Queen Formation @ 3380'
T/Penrose Formation @ 3539'
T/Grayburg Zone 1 @ 3730'
T/Grayburg Zone 2 @ 3805'
T/Grayburg Zone 3 @ 3919'
T/Grayburg Zone 4 @ 3963'
T/Grayburg Zone 5 @ 4026'
T/Grayburg Zone 6 @ 4090'
T/San Andres Formation @ 4119'
KB @ 3573'

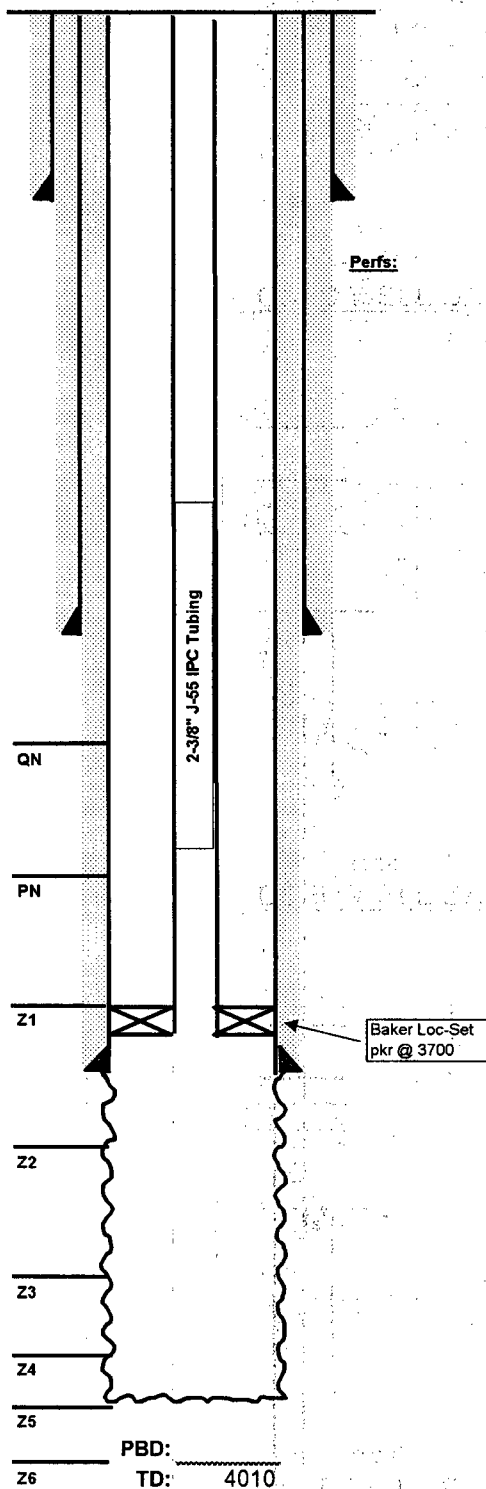
16" OD
70# CSG
Set @ 34' W/ 30 SX
Cmt circ.? yes
TOC @ surf. by calc.
(17-1/2" hole)

Tubing & Rod Detail:

2-3/8" IPC Tubing with on off tool w 1.875" profile nipple set above 5.5" Baker Loc-set packer

7-5/8" OD
22# CSG 8rd
Set @ 1165' W/ 600 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(9-7/8" hole)

5-1/2" OD
17# CSG 10rd
Set @ 3754' W/ 175 SX
Cmt circ.? no
TOC @ 2500' by calc.
(4-3/4" hole)



FILE: EMSU222WB.XLS



WELL DATA SHEET

LEASE: EMSU
LOC: 660' F S L & 1980' F E L
TOWNSHIP: 21S
RANGE: 36E UNIT: W
(formerly: Graham State "NCT-E" #1)

WELL: 252
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Grayburg / San Andres DATE:
GL: 3588' STATUS: Producer
KB: 3588' API NO: 30-025-04528
DF: CHEVNO: FA 5670:01

Date Completed: 3/19/1936
Initial Production: 7/484 BOPD / 0 BWPD
Initial Formation: Grayburg
FROM: 3769' to 3890' / GOR 2446

Completion Data

ACDZ w/ 1000 gals Dowell X solution.

Subsequent Workover or Reconditioning:

4/46 Install Flow valve in the Tst 136 Bo/10 Bw
7/50 Tbg stuck. Aczd w/ 500 gal. Tst 24 Bo/80 BWPD.
6/53 Install Ppg Equip. Tst 67 Bo/8 BWPD.
2/54 Between period & int. csg string 15# Continuous weak blow of ga. Checked 1 hour later & no blow. Continued no leak.
2/66 Over 500. Acid 15% NeFeA in csg. Test 13 Bo/41 BWPD B14 tst 12 Bo/13 BWPD.
5/74 Trtd OH w/ 4000 gal 15% NeFeA in 4 stgs w/ BAF's GRs as diverter. Test 12 Bo/50 BWPD. B/4 tst 1 Bo/33 BWPD.
9/81 Pump stuck. Pull tbg retrieve pump. Pump 750 gal. 15% DI HCL dn tbg. Scale and indicate current in pump. Test 5 Bo/40 Bw. B/4 tst 8 Bo/66 BWPD.
2/82 Pump stuck. Freed pmp. Pump 1000 gal 15% NeFeA dn tbg. Test 6 Bo/55 BWPD. B/4 - 8 Bo/44 BWPD.
4/84 Chem. sqzd OH.
1/88 C/O WH. Tag btm @ 3874' (16' f.) Circ w/ foam comm to 7 5/8" int. csg. ind hole in 5 1/2 prod csg. C/O & deepened to 3977' Ran logs. Return well do prod. Test 14 Bo/181 Bw/46 mcfpd FL @ 183' asn. B/4 test 7 Bo/68 BW/2mcfpd.
2/90 Chem sqzd OH. Fluid coming out int. csg when press on prod. string.
8/93 Aczd OH w/ 6000 gal 15% NeFeA w/ 2? antisludging compound in 1st 1500 gal in 4 stgs w/ 2000 GRs. EFL @ 2200', Rcur 99 bbls...2% oil cut EFL @ 2100'. Rcur 64 bbls...2% oil cut, SN @ 3934'. Tst: B-2Bo/139 Bw/1 MCF. A - 16 Bo/434 Bw/39 MCF.
1/2000 Ran bit and scraper to TD Set packer to conv to inj.

Additional Data:

T/Queen Formation @ 3396'
T/Penrose Formation @ 3550'
T/Grayburg Zone 1 @ 3727'
T/Grayburg Zone 2 @ 3801'
T/Grayburg Zone 2A @ 3850'
T/Grayburg Zone 3 @ 3914'
T/Grayburg Zone 4 @ 3940'
T/Grayburg Zone 5 @ 4010'
T/Grayburg Zone 6 @ 4055'
T/San Andres Formation @ 4124'
KB @ 3588'

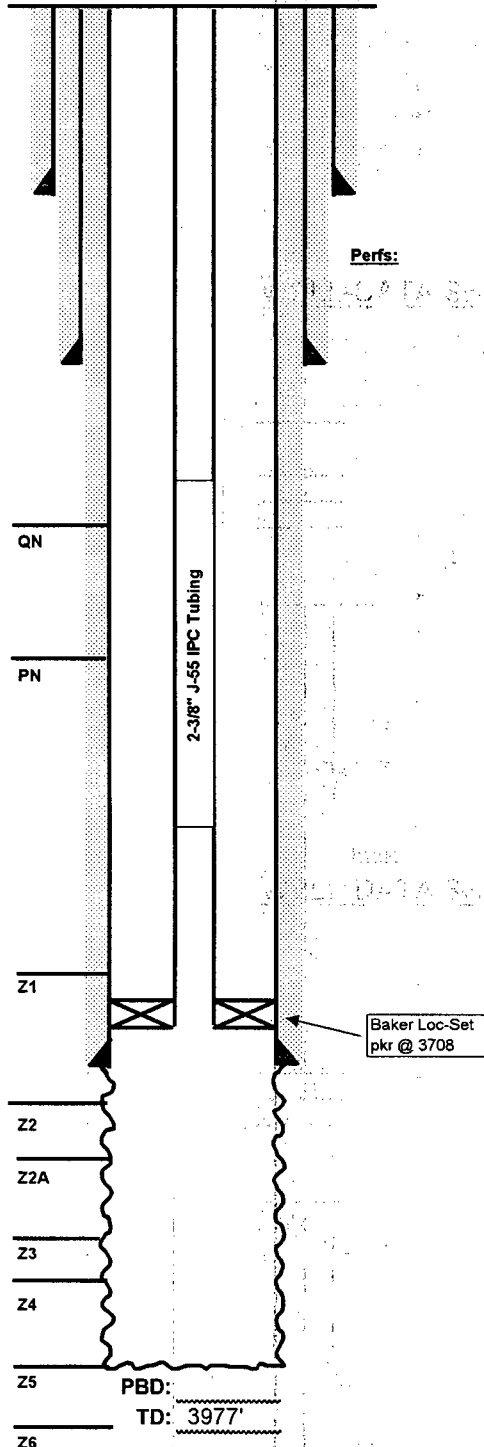
10-3/4" OD
40# CSG
Set @ 321' W/ 250 SX
Cmt circ.? Yes
TOC @ surf. by calc.

7-5/8" OD
26# CSG 8rd
Set @ 1267' W/ 250 SX
Cmt circ.? Yes
TOC @ surf. by calc.

Tubing Detail:

2-3/8" IPC TUBING WITH 1.875" PROFILE
NIPPLE SET ABOVE PACKER @
3708'

5-1/2" OD
17# CSG 10rd
Set @ 3758' W/ 300 SX
Cmt circ.? No
TOC @ 450' by calc.



FILE: EMSU252WB.XLS

PROPOSED WELL DATA SHEET

FIELD: Eunice Monument South Unit

WELL NAME: EMSU 575

FORMATION: Grayburg

LOC: 100' FSL & 1338' FWL
TOWNSHIP: 20S
RANGE: 37E

SEC: 31
COUNTY: Lea
STATE: NM

UNIT: N
GL: 3539'
KB: 3545'
DF to GL:

CURRENT STATUS: INJECTOR
API NO: 30-025-34824
CHEVNO: BD6710

9-5/8", 36#, K-55, Surf. Pipe
set @ 510' w/ 250 SX cmt.
TOC @ Surf' by circ.
(12-1/4" hole)

Tubing Detail:
Shut-in 4/5/2000

Rod Detail:
N/A

7" Arrowset 1-XS
packer @ 3650'

3711 - 3715

3719 - 3726

3744-3752

3756-3770

3771-3773

3774-3786

3786-3792

3794-3796

3800-3809

3846-3850

3871-3874

FC @ 3880'

PBTD @ 3779'
TD @ 3930'

2-3/8" J-55 4.7# IPC tubing

QN

PNR

Z1

Z2

Z2A

Z3

Z4

Z5

Z6

Date Completed: 2-00

Initial Prod: 11 BOPD/ 1100 BWPD/ 2 MCF

Initial Formation: Grayburg From: 3711 To: 3874

OH Logs: HLS - GR-CSL-DLL-MSFL, GR-DSN-SDL

Completion Data:

Ran CAST-V/CBL. Poor Bond. Pickle tbg & csg w/ 500 gals acid. Spot 500 gal 15% NEFE. Perf 3711 - 3715, 3719 - 3726, 3744 - 3752, 3771 - 3773, 3786 - 3792, 3800 - 3809, 3846 - 3850, & 3871 - 3874' w/ 3 JHPF. Break down & acdz w/ 2000 gal 15% NEFE & 200 RCN BS. Acdz w/ 3500 gal 15% NEFE foamed to 50Q w/ CO2 & drop 100 RCN BS. Set CIBP @ 3860'.

Workover History:

2/00 - Ran production log. Indicated majority of water entry from perms @ 3711 - 3726.

3/00 - Plug back w/ 20/40 sand to 3745'. EPIR. Set CICR @ 3588'. Cmt sqz perms from 3711 - 3726 w/ 150 sx Class "C" w/ additives. 75 sx in form. DO w/ 6-1/8' bit. Test sqz to 350 PSI. No bleed-off. CO to 3860. B - 11/1100/2 A - 2/500/0 Shut-in 4/00.

Additional Data:

T/Queen Formation @ 3320'
T/Penrose Formation @ 3458'
T/Grayburg Zone 1 @ 3641'
T/Grayburg Zone 2 @ 3681'
T/Grayburg Zone 2A @ 3723'
T/Grayburg Zone 3 @ 3763'
T/Grayburg Zone 4 @ 3810'
T/Grayburg Zone 5 @ 3888'
T/Grayburg Zone 6 @ ~3957'
T/San Andres Formation @ ~4011'
KB @ 3545'

7", 20# & 23#, csg set @
3930' w/ 400 SX "C" w/
87 SCF N2/BBL & 85 SX "C"
Cap w/ 100 SX "C"
Cmt Circ.? Yes
TOC @ 0
(8-3/4" hole)

WELL DATA SHEET

FIELD: Eunice Monument South Unit

WELL NAME: EMSU 575

FORMATION: Grayburg

LOC: 100' FSL & 1338' FWL
TOWNSHIP: 20S
RANGE: 37E

SEC: 31
COUNTY: Lea
STATE: NM

UNIT: N

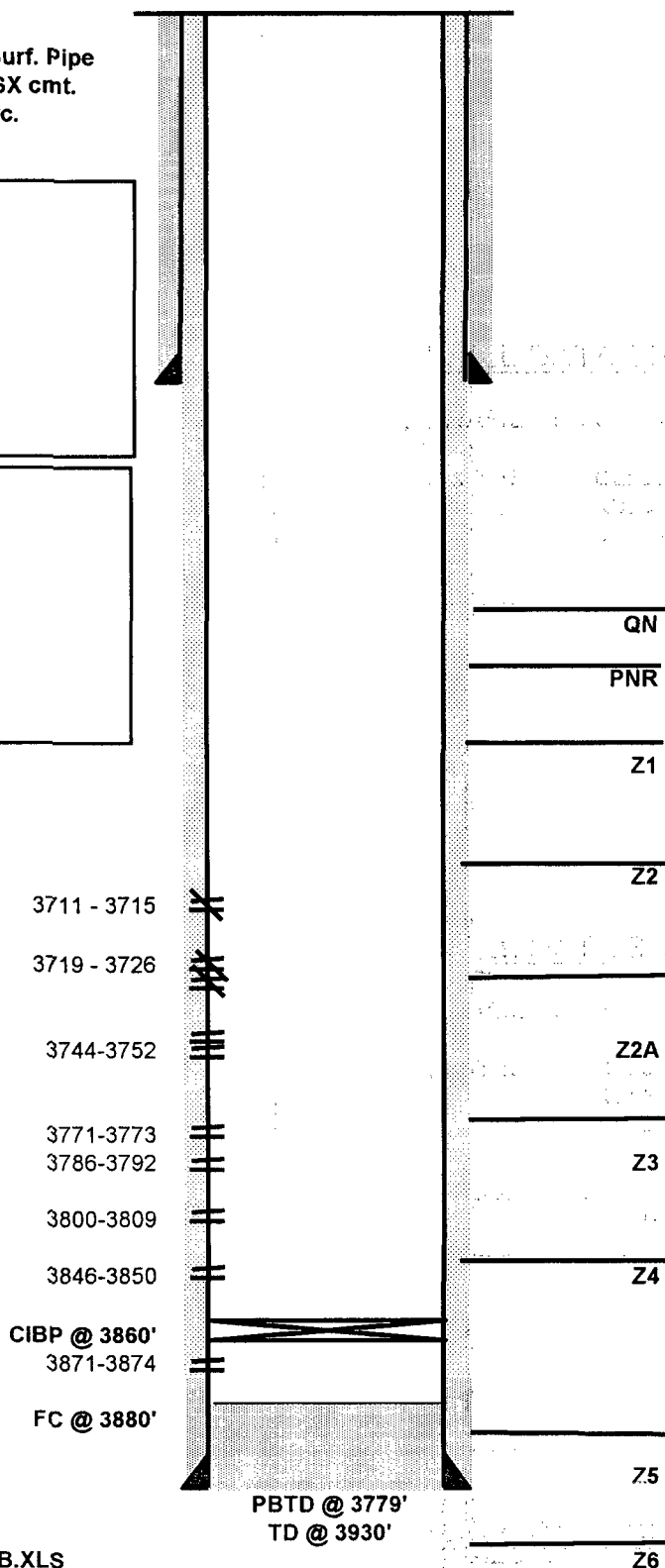
GL: 3539'
KB: 3545'
DF to GL:

CURRENT STATUS: Shut-in
API NO: 30-025-34824
CHEVNO: BD6710

9-5/8", 36#, K-55, Surf. Pipe
set @ 510' w/ 250 SX cmt.
TOC @ Surf by circ.
(12-1/4" hole)

Tubing Detail:
Shut-in 4/5/2000

Rod Detail:
N/A



Date Completed: 2-00

Initial Prod: 11 BOPD/ 1100 BWPD/ 2 MCF

Initial Formation: Grayburg From: 3711 To: 3874

OH Logs: HLS - GR-CSL-DLL-MSFL, GR-DSN-SDL

Completion Data:

Ran CAST-V/CBL. Poor Bond. Pickle tbg & csg w/ 500 gals acid. Spot 500 gal 15% NEFE. Perf 3711 - 3715, 3719 - 3726, 3744 - 3752, 3771 - 3773, 3786 - 3792, 3800 - 3809, 3846 - 3850, & 3871 - 3874' w/ 3 JHPF. Break down & acid w/ 2000 gal 15% NEFE & 200 RCN BS. Acid w/ 3500 gal 15% NEFE foamed to 50Q w/ CO2 & drop 100 RCN BS. Set CIBP @ 3860'.

Workover History:

2/00 - Ran production log. Indicated majority of water entry from perfs @ 3711 - 3726.

3/00 - Plug back w/ 20/40 sand to 3745'. EPIR. Set CIBP @ 3588'. Cmt sqz perfs from 3711 - 3726 w/ 150 sx Class "C" w/ additives. 75 sx in form. DO w/ 6-1/8" bit. Test sqz to 350 PSI. No bleed-off. CO to 3860. B - 11/1100/2 A - 2/500/0 Shut-in 4/00.

Additional Data:

T/Queen Formation @ 3320'
T/Penrose Formation @ 3458'
T/Grayburg Zone 1 @ 3641'
T/Grayburg Zone 2 @ 3681'
T/Grayburg Zone 2A @ 3723'
T/Grayburg Zone 3 @ 3763'
T/Grayburg Zone 4 @ 3810'
T/Grayburg Zone 5 @ 3888'
T/Grayburg Zone 6 @ ~3957'
T/San Andres Formation @ ~4011'
KB @ 3545'

7", 20# & 23#, csg set @
3930' w/ 400 SX "C" w/
87 SCF N2/BBL & 85 SX "C"
Cap w/ 100 SX "C"
Cmt Circ.? Yes
TOC @ 0
(8-3/4" hole)



PROPOSED WELL DATA SHEET

LEASE: EMSU WELL: 196
LOC: 1965 'F N L & 660 'F W L SEC: 5
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: E ST: N.M.

FORM: Grayburg / San Andres DATE: _____
GL: 3564' STATUS: Injector
KB: 3575' API NO: 30-025-04514
DF: _____ CHEVNO: FA 56560:01

Date Completed: 5/25/1936
Initial Production: F 168 BOPD
Initial Formation: Grayburg
FROM: 3748' to 3863'

Completion Data
Acidz OH w/4500 gal Dowell XX acid

Subsequent Workover or Reconditioning:
5/40 PB to 3858' w/CAL Seal. Set prod. pkr @ 3780'. Done to reduce GOR.
11/47 Trid OH w/500 gal acid. Test Flwg 17BOPD. B/4 = 14BOPD
6/49 Acidz w/1300 al acid. B/4: well dead. After: Flwg 10 BOPD.
9/51 Install ppg equip.
3/62 Trid w/500 gal acid
4/64 Trid w/500 gal 15% NeFeA. Test 6 BO/4 BWPD
9/76 Tbg stuck. Cut. C/O to TD. Acidz OH w/4000 gal 15% NeFeA in 4 stgs w/ GRS. Test 5 BO/47 BWPD.
12/86 CO to TD 3875'. Perf w/ 2-0.45 JHPF f/ 3685-87' and 1-0.45 JHPF f/ 3692-96' (total 8 holes). Ran GR-CNL-CAL. Perf 3685-87' and 3692-96'. Acidz new perfs w/1200 gal 15% NeFeA w/12 RCNBs. Acidz OH w/4000 gal 15% NeFeA in 4 stgs w/GRS. Test csg 3632' to surf OK. Test 0 BO/63 BW/2 mcf. Before: 10 BO/12 BW/4 mcfpd.
5/90 Chem sqz w/5 gal TW 447 & 110 gal TH 764.
5/91 Prod. Log indicated 100% Fluid entry @ 3700-22'. Hot gamma csg strk @ 3720-32'.
8/91 Tag btm 3864'. Spot sd f/3744-3864'. Set pkr @ 3640'. Poly trt 3640-3744 w/ 361 Bbls. polymer. Swb tst poly sqz & swab dry. CO to 3875'. RTP.
12/95:ACDZ w/ 5000 gals acid.

Additional Data:
T/Queen Formation @ 3372'
T/Penrose Formation @ 3512'
T/Grayburg Zone 1 @ 3693'
T/Grayburg Zone 2 @ 3743'
T/Grayburg Zone 2A @ 3805'
T/Grayburg Zone 3 @ 3838'
T/Grayburg Zone 4 @ 3884'
T/Grayburg Zone 5 @ 3980'
T/Grayburg Zone 6 @ 4031'
T/San Andres Formation @ 4070'
KB @ 3575'

Current
Inj. _____ bwpd @ _____ psi Date: _____
Prod. _____ bopd _____ bwpd Date: _____
Gas _____ mcfpd

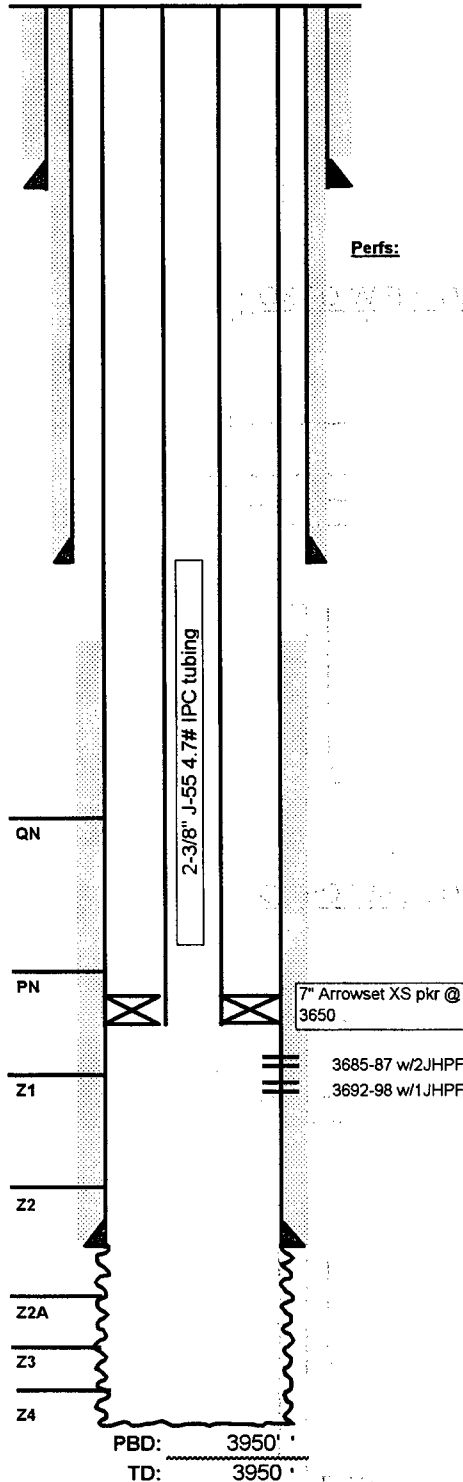
12-1/2 "OD
CSG
Set @ 253 'W/ 200 sx.
Cmt circ.? yes
TOC @ _____ 'by _____

9-5/8 "OD 36# 8Thd
CSG
Set @ 1232 'W/ 500 sx.
Cmt circ.? yes
TOC @ _____ 'by _____ calc _____

Tubing Detail:
KBTH: 11.00'
Landed @ _____

Rod Detail:

7 "OD 24# 10Thd
CSG
Set @ 3748 'W/ 255 sx.
Cmt circ.? no
TOC @ 1880 'by _____ calc _____



FILE: EMSU196WB.XLS



WELL DATA SHEET

LEASE: EMSU WELL: 196

LOC: 1965 'F N L & 660 'F W L SEC: 5

TOWNSHIP: 21S CNTY: Lea

RANGE: 36E UNIT: E ST: N.M.

FORM: Grayburg / San Andres DATE:

GL: 3564' STATUS: Producer

KB: 3575' API NO: 30-025-04514

DF: CHEVNO: FA 56560:01

Date Completed: 5/25/1936

Initial Production: F 168 BOPD

Initial Formation: Grayburg

FROM: 3748' to 3863'

Completion Data

Acidz OH w/4500 gal Dowell XX acid

Subsequent Workover or Reconditioning:

5/40 PB to 3858' w/CAL Seal. Set prod. pkr @ 3780'. Done to reduce GOR.

11/47 Trtd OH w/500 gal acid. Test Flwg 17BOPD. B/4 =14BOPD

6/49 Acidz w/1300 al acid. B/4: well dead. After: Flwg 10 BOPD.

9/51 Install ppg equip.

3/62 Trtd w/500 gal acid

4/64 Trtd w/500 gal 15% NeFeA. Test 6 BO/4 BWPD

9/76 Tbg stuck. Cut. C/O to TD. Acidz OH w/4000 gal 15% NeFeA in 4 stgs w/ GRS. Test 5 BO/47 BWPD.

12/86 CO to TD 3875'. Perf w/ 2-0.45 JHPF f/ 3685-87' and 1-0.45 JHPF f/ 3692-96' (total 8 holes). Ran GR-CNLCAL. Perf 3685-87' and 3692-96'. Acidz new perms w/1200 gal 15% NeFeA w/12 RCNBs. Acidz OH w/4000 gal 15% NeFeA in 4 stgs w/GRS. Test csg 3632' to surf OK. Test 0 BO/63 BW/2 mcf. Before: 10 BO/12 BW/4 mcfpd.

5/90 Chem sqz w/5 gal TW 447 & 110 gal TH 764.

5/91 Prod. Log indicated 100% Fluid entry @ 3700-22'. Hot gamma csg strk @ 3720-32'.

8/91 Tag btm 3864'. Spot sd f/3744-3864'. Set pkr @ 3640'. Poly trt 3640-3744 w/ 361 Bbls. polymer. Swb tst poly sqz & swab dry. CO to 3875'. RTP.

12/95 ACZD w/ 5000 gals acid.

Additional Data:

T/Queen Formation @ 3372'

T/Penrose Formation @ 3512'

T/Grayburg Zone 1 @ 3693'

T/Grayburg Zone 2 @ 3743'

T/Grayburg Zone 2A @ 3805'

T/Grayburg Zone 3 @ 3838'

T/Grayburg Zone 4 @ 3884'

T/Grayburg Zone 5 @ 3980'

T/Grayburg Zone 6 @ 4031'

T/San Andres Formation @ 4070'

KB @ 3575'

12-1/2 "OD

CSG

Set @ 253 'W/ 200 sx.

Cmt circ.? yes

TOC @ 'by

9-5/8 "OD 36# 8Thd

CSG

Set @ 1232 'W/ 500 sx.

Cmt circ.? yes

TOC @ surf 'by calc

Tubing Detail: 1/4/87

KBTH: 11.00'

122 Jts. 2-7/8" 4.7# J-55 EUE Brd

tbg.: 3804.32'

2-3/8" API SN 1.10'

2-3/8" J-55 Perf Sub 4.00'

1 Jt. 2-3/8" BP MA JT 31.60'

Landed @ 3841.22'

Rod Detail: 1/4/87

1 - 2' X 3/4" Sucker Rod

2 - 6' X 3/4" Sub Rod

151 - 3/4" X 25' Sucker Rods

1 - 2' X 3/4" Sub

1 - 2"X 1-1/4" X 12' PWTC Pump

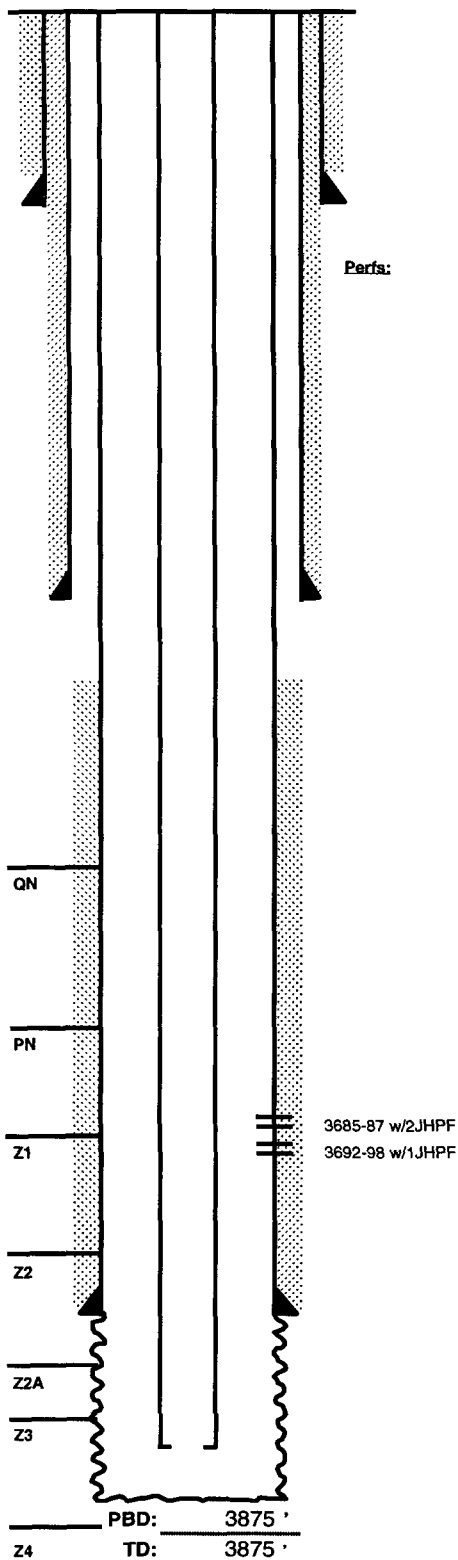
7 "OD 24# 10Thd

CSG

Set @ 3748 'W/ 255 sx.

Cmt circ.? no

TOC @ 1880 'by calc

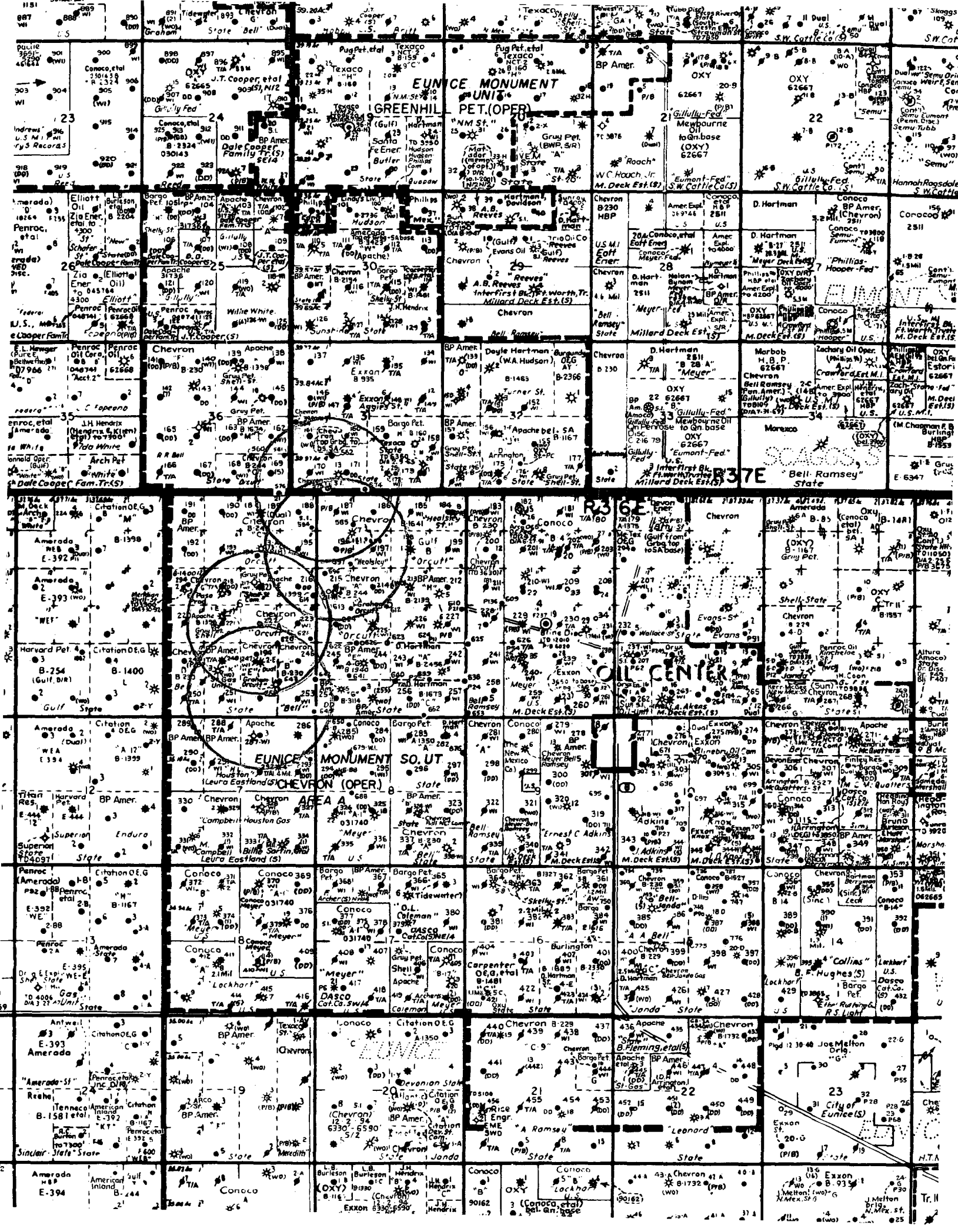


Current

Inj. _____ bwpd @ _____ psi Date: _____

Prod. _____ bopd _____ bwpd Date: _____

Gas _____ mcfpd



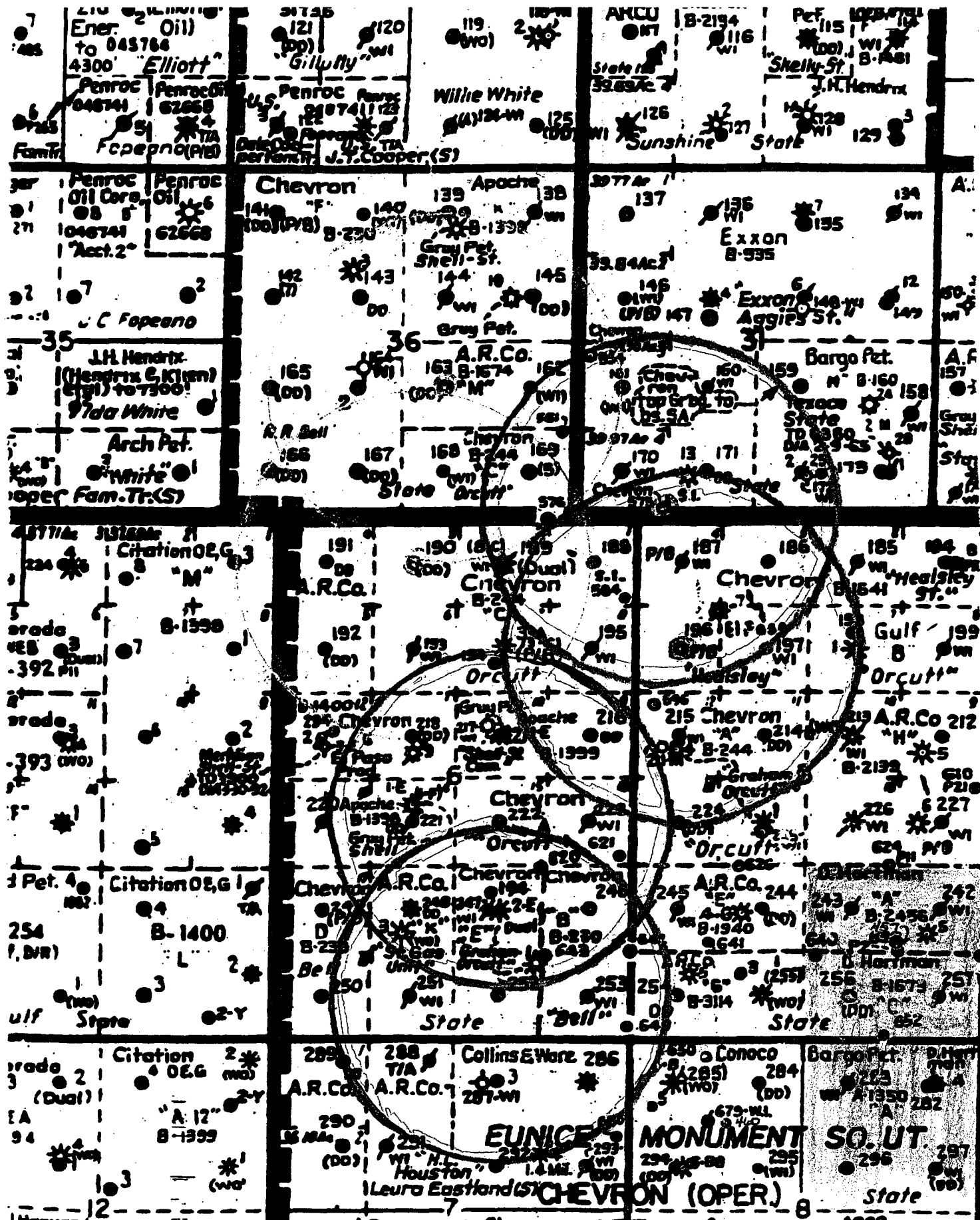


TABLE 2

NONUNIT WELLS IN AREA THAT PENETRATED IN UNITIZED ZONE

API	Lease Name	Well Number	Operator Name	Location	Field Name	Prod Zone Name	TD	Well Spot	Status Code
30025044300000	H T ORCUTT NCT C COM	5 OK	CHEVRON U S A INC	36P 20S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3847	Gas	ACT
30025045090001	H T ORCUTT NCT B COM	1 OK	CHEVRON U S A INC	5G 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3865	Gas	ACT
30025045290001	GRAHAM ORCUTT GAS COM	3 OK	CHEVRON U S A INC	6R 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3885	Gas	ACT
30025045340000	H T ORCUTT NCT C COM A	3 OK	CHEVRON U S A INC	6F 21S 36E	EUNICE	YATES-SEVEN RIVERS-QUEEN	3862	P&A	P&A
30025045370002	H T ORCUTT NCT C COM A	8 OK	CHEVRON U S A INC	6B 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3855	Gas	ACT
30025045380000	SHELL E STATE COM	1 OK	GRUY PET MANAGEMENT	6J 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3880	Gas	ACT
30025045410001	H L HOUSTON GAS COM	3 OK	AMERADA HESS CORP	7B 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3895	Gas	ACT
30025087030000	TRUCKERS SWD***	6 OK	UNICHEM INTL INC.	6L 21S 36E	EUNICE	GRAYBURG-SAN ANDRES	3854	P&A	P&A
30025257730000	SHELL E STATE COM	2 OK	GRUY PET MANAGEMENT	6R 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3713	Gas	ACT
30025309220000	GRAHAM ORCUTT GAS COM	1 OK	CHEVRON U S A INC	6W 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3700	Gas	ACT
30025313360000	SHELL 'E' STATE COM**	3 OK	BURLINGTON	6L 21S 36E	EUMONT	GRAYBURG	3800	Dryhole	P&A
30025317490000	GRAHAM ORCUTT GAS COM	4 OF	CHEVRON U S A INC	5L 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3700	Gas	ACT

*** FORMERLY STATE G NO. 2

** ORIGINALLY DRILLED BY MERIDIAN

TABLE 3

NONUNIT WELLS IN AREA THAT DID NOT PENETRATE IN UNITIZED ZONE

API	Lease Name	Well Number	Operator Name	Location	Field Name	Prod Zone Name	TD	Well Spot	Status Code
30025045170000	HEASLEY-STATE	7	CHEVRON U S A INC	5E 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3630	P&A	P&A
30025045240000	SHELL STATE COM C*	9	EL PASO NAT GAS	6K 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3527	P&A	P&A
30025263250000	EXXON-AGGIES STATE	13	EXXON MOBIL CORPORATION	31N 20S 37E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3650	Gas	ACT
30025302840000	STATE 'K' GAS UNIT	3	BP AMERICA PRODUCTION COMPANY	6S 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3600	Gas	ACT
30025325720000	HOUSTON H L GAS COM	4	AMERADA HESS CORP	7H 21S 36E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3595	Gas	ACT
30025333570000	NEW MEXICO 'H' STATE NCT-1	25	CHEVRON U S A INC	31O 20S 37E	EUMONT	YATES-SEVEN RIVERS-QUEEN	3600	Gas	ACT

* EL PASO WAS OPERATOR WHEN WELL WAS ABANDONED

TABLE 1

UNIT WELLS IN AREA

API	Lease Name	Well Number	Operator Name	Location	Field Name	Prod Zone Name	TD	Well Spot	Status Code
30025063100000	EMSU	159	CHEVRON U S A	31J 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3868	Oil	ACT
30025063000000	EMSU	160	CHEVRON U S A	31K 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3840	Injection	INA
30025063050000	EMSU	161	CHEVRON U S A	31L 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3945	Oil	ACT
30025295830000	EMSU	169	CHEVRON U S A	36P 20S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4198	Oil	ACT
30025062970000	EMSU	170	CHEVRON U S A	31M 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3997	Injection	ACT
30025062960000	EMSU	171	CHEVRON U S A	31N 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3900	Oil	ACT
30025299120000	EMSU	172	CHEVRON U S A	31O 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4000	Injection	ACT
30025045160000	EMSU	186	CHEVRON U S A	5C 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3876	Oil	ACT
30025045150000	EMSU	187	CHEVRON U S A	5D 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4000	Injection	ACT
30025045330000	EMSU	188	CHEVRON U S A	6A 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3894	Oil	ACT
30025296140000	EMSU	189	CHEVRON U S A	6B 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4150	Injection	ACT
30025295990000	EMSU	194	CHEVRON U S A	6F 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4200	Oil	ACT
30025045320000	EMSU	195	CHEVRON U S A	6G 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4040	Injection	ACT
30025045140000	EMSU	196	CHEVRON U S A	5E 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3876	Oil	ACT
30025045110000	EMSU	197	CHEVRON U S A	5F 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4005	Injection	ACT
30025296820000	EMSU	198	CHEVRON U S A	5G 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4074	Oil	ACT
30025045070000	EMSU	214	CHEVRON U S A	5K 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4013	Oil	ACT
30025045080000	EMSU	215	CHEVRON U S A	5L 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4015	Injection	ACT
30025087040000	EMSU	216	CHEVRON U S A	6I 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3988	Oil	ACT
30025299110000	EMSU	217	CHEVRON U S A	6J 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4209	Injection	ACT
30025046570000	EMSU	218	CHEVRON U S A	6K 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3973	Oil	ACT
30025302250000	EMSU	219	CHEVRON U S A	6L 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4252	Temp Abn	INA
30025087050000	EMSU	220	CHEVRON U S A	6M 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4200	P&A	INA
30025087060000	EMSU	221	CHEVRON U S A	6N 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4020	Injection	ACT
30025045310000	EMSU	222	CHEVRON U S A	6O 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4010	OilInjection	INA
30025045300000	EMSU	223	CHEVRON U S A	6P 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3967	Injection	ACT
30025045060000	EMSU	224	CHEVRON U S A	5M 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3972	Oil	ACT
30025045270000	EMSU	246	CHEVRON U S A	6I 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3976	Oil	ACT
30025295750000	EMSU	247	CHEVRON U S A	6J 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4171	Injection	ACT
30025045210000	EMSU	248	CHEVRON U S A	6K 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3867	Temp Abn	INA
30025045260000	EMSU	250	CHEVRON U S A	6U 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3888	Temp Abn	INA
30025045200000	EMSU	251	CHEVRON U S A	6V 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4059	Injection	ACT
30025045280000	EMSU	252	CHEVRON U S A	6W 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3977	OilInjection	ACT
30025087020000	EMSU	253	CHEVRON U S A	6X 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4036	Injection	ACT
30025045400000	EMSU	286	CHEVRON U S A	7A 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3990	Oil	ACT
30025299090000	EMSU	287	CHEVRON U S A	7B 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4050	Injection	ACT
30025045520000	EMSU	288	CHEVRON U S A	7C 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3905	Temp Abn	INA
30025087070000	EMSU	289	CHEVRON U S A	7D 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3884	Oil	ACT
30025045530000	EMSU	291	CHEVRON U S A	7F 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4076	Injection	ACT
30025045420000	EMSU	292	CHEVRON U S A	7G 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3972	Temp Abn	INA
30025348450000	EMSU	554	CHEVRON U S A	31L 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3940	Oil	ACT
30025335950000	EMSU	561	CHEVRON U S A	36P 20S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3970	Oil	ACT
30025354620000	EMSU	562	CHEVRON U S A	31N 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3945	Oil	ACT
30025351600000	EMSU	574	CHEVRON U S A	31N 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3943	Oil	ACT
30025348240000	EMSU	575	CHEVRON U S A	31N 20S 37E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3930	Oil	INA
30025346400000	EMSU	576	CHEVRON U S A	6P 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3955	Oil	ACT
30025341390000	EMSU	584	CHEVRON U S A	6A 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3950	Oil	ACT
30025351570000	EMSU	585	CHEVRON U S A	5D 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3980	Oil	ACT
30025348460000	EMSU	596	CHEVRON U S A	5L 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4065	Oil	ACT
30025351580000	EMSU	597	CHEVRON U S A	5M 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4050	Oil	ACT
30025351590000	EMSU	612	CHEVRON U S A	5K 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4025	Oil	ACT
30025351610000	EMSU	613	CHEVRON U S A	5M 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4073	Oil	ACT
30025354530000	EMSU	614	CHEVRON U S A	6I 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4048	Oil	ACT
30025305110000	EMSU	620	CHEVRON U S A	6O 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4050	Oil	ACT
30025331860000	EMSU	621	CHEVRON U S A	6P 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	3998	Oil	ACT
30025354540000	EMSU	622	CHEVRON U S A	5K 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4120	Oil	ACT
30025309580000	EMSU	642	CHEVRON U S A	6I 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4105	Oil	ACT
30025305120000	EMSU	643	CHEVRON U S A	6W 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4040	Oil	INA
30025331870000	EMSU	649	CHEVRON U S A	6X 21S 36E	EUNICE MONUMENT	GRAYBURG-SAN ANDRES	4064	Oil	ACT

WELL DATA SHEET

LEASE: H. T. ORCUTT NCT- C COM
 Operator: Chevron
 LOC: 660 'F S L & 660 'F E L
 TOWNSHIP: 21S
 RANGE: 36E UNIT: P

WELL: 5
 SEC: 6
 CNTY: Lea
 ST: N.M.

FORM: Eumont
 GL: 3543
 KB: 3567
 DF:

DATE:
 STATUS: Gas
 API NO: 30-025-04430
 CHEVNO:

Date Completed:
 Initial Production:
 Initial Formation:
 FROM:

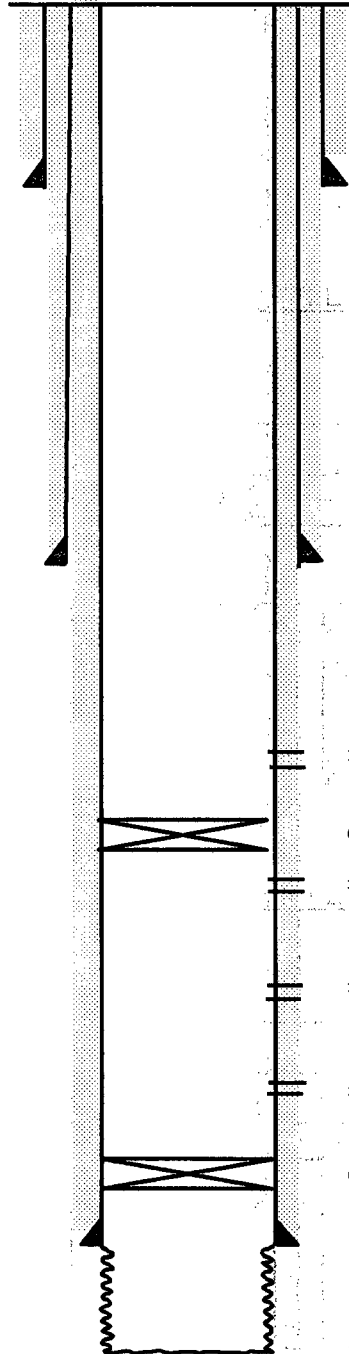
Completion Data

Subsequent Workover or Reconditioning:

10 3/4 "OD
 # CSG
 Set @ 294 'W/ 275 sx.
 Cmt circ.? yes
 TOC @ 'by

7 5/8 "OD
 # CSG
 Set @ 1091 'W/ 250 sx.
 Cmt circ.? yes
 TOC @ 0 'by CIRC

5 1/2 "OD
 17 # CSG
 Set @ 3774 'W/ 150 sx.
 Cmt circ.? NO
 TOC @ 1780 'by TS



3018-3088

CIBP AT 3300' W 10' CMT CAP

3345-3392

3404-3464

3494-3546

CIBP AT 3700' W 35' CMT CAP

Current

Inj. _____ bwpd @
 Prod. _____ bopd

psi
 bwpd
 Gas

Date: _____
 Date: _____
 mcfpd

PBD: 3290 '
 TD: 3774 '

FILE: EMSU196WB.XLS

WELL DATA SHEET

FIELD: Eumont Gas

Operator: Chevron

LOC: 1980' FNL & 1980' FEL, Unit G

TOWNSHIP: 21S

RANGE: 36E

WELL NAME: H. T. Orcutt (NCT-B) Com #1

SEC: 5

COUNTY: Lea

STATE: NM

FORMATION:

GL: 3568'

KB to GL:

DF to GL:

CURRENT STATUS:

API NO: 30-025-04509

REFNO: FA5651:0:01

EMSU: 198X

Date Completed: 04/29/36

Initial Formation:

Completion Data:

Acdz w/1000 gals. *Note*: Struck DP at TD 3862', left 6 jts in hole, set whipstock at 3300'.

Subsequent Operations:

(08/39) Acdz w/1000 gals

(02/44) Acdz w/1000 gals 15% NE.

(10/48) Acdz w/1000 gals

(08/49) TA'd

(08/51) Cut tbg at 3670', pulled & cut off at 3830', rec 120 jts tbg, cut tbg 3644', set cmt ret at 3600', sqz w/125 sx cmt, top cmt 3583', perf 5 1/2" csg 3335'-3550' w/2 JHPF, acdz w/500 gals.

(09/72) Acdz w/250 gals 15% NE.

(04/91) TIH w/pkr @ 3226'. Frac w/66,000 gals 50/50 xl-gel CO₂ & 125,000# 12/20 sd.

10 3/4", 40# Csg
Set @ 306' w/250 sx cmt.
Circulated to surface (calc)

7 5/8", 26# Csg
Set @ 1207' w/300 sx cmt.
Circulated to surface (calc)

Perfs @ 3335'-3550' (430 holes)

3583'

Cmt ret @ 3600', cap w/125 sx cmt

5 1/2", 17# Csg
Set @ 3745' w/300 sx cmt.
Circulated to surface (calc)

Junk in
hole

TD 3865'

WELL DATA SHEET

FIELD: Eumont Gas
Operator: Chevron
LOC: 1980' FSL & 1980' FEL, Unit R
TOWNSHIP: 21S
RANGE: 36E

WELL NAME: Graham Orcutt Gas Com #3
SEC: 6
COUNTY: Lea
STATE: NM

FORMATION:

GL: 3578'
KB to GL:
DF to GL:

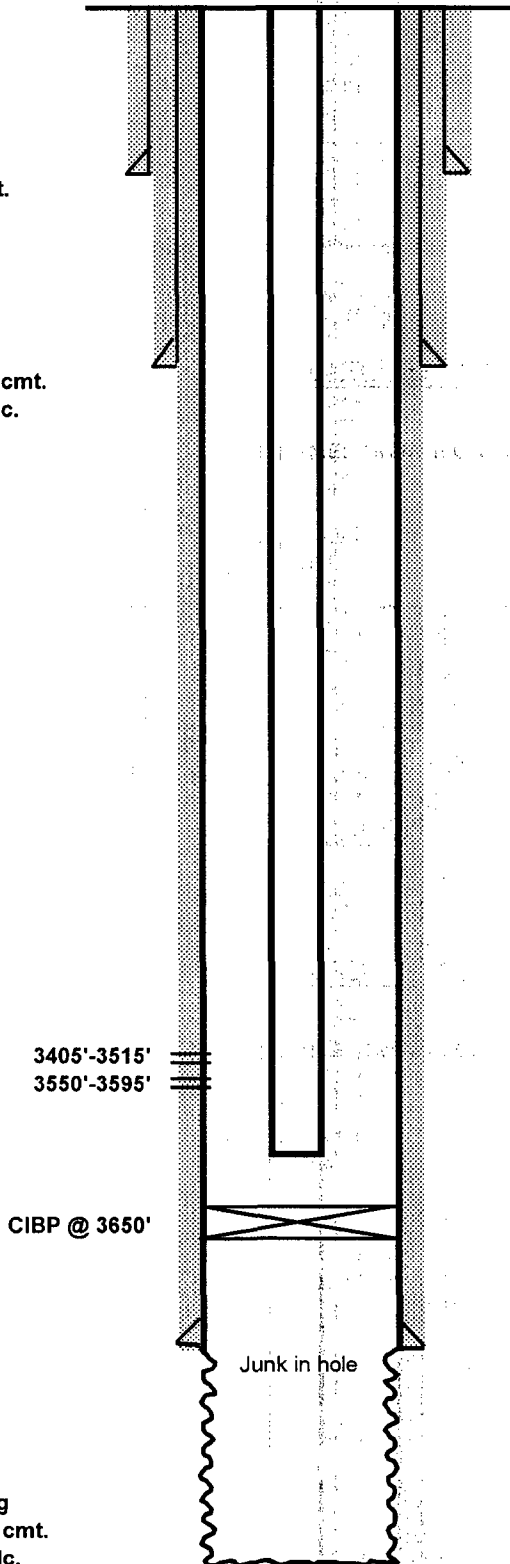
CURRENT STATUS:
API NO: 30-025-04529
REFNO: FA5671:0:01
EMSU: 247X

Date Completed: 9-23-36

Initial Formation: Grayburg

16", 70# Csg
Set @ 31' w/60 sx cmt.
Circulated to surface.

7-5/8", 22#, 8 thd Csg
Set @ 1213' w/650 sx cmt.
TOC @ surface by calc.



5 1/2", 17#, 10 thd Csg
Set @ 3748' w/300 sx cmt.
TOC @ surface by calc.

Acidz w/1000 gals 50/50 non-inhib solution.

Subsequent Operations:

(03/37) Set 2" pkr @ 3785'. Pmpd on top of pkr 1000# Aquagel & 280# No 2 Fibrotex w/36 bbls wtr. Did not seal pkr. Pmpd on top of pkr 1000# Aquagel & 350# No. 2 Fibrotex w/45 bbl wtr. Csg press 1250#. Input on csg 750#. Final press 750# csg press.

(04/55) Perf csg @ 3405'-3515' & 3550'-3595' w/4 1/2" JHPF. Trtd perms w/500 gals MCA acid. Trtd form thru perms w/15,000 gals sand oil frac w/1# SPG.

(06/59) Acidz w/1,000 gals 15% NEA.

(06/63) Acidz w/500 gals 15% NEFE.

(06/64) Acidz w/500 gals 15% NEA.

(09/64) Acidz w/500 gals 15% NEA.

(10/65) Acidz w/500 gals 15% NEA.

(05/66) Acidz w/500 gals 20% NEA.

(11/66) Acidz w/500 gals 15% NEA.

(06/67) Acidz w/500 gals 20% NEA.

(04/68) Acidz w/500 gals 20% inhib acid.

(08/68) Acidz w/250 gals 20% NE dbl inhib acid.

(12/68) Acidz w/500 gals 20% NE dbl inhib acid.

(06/69) Acidz w/500 gals 20% dbl inhib NEA.

(10/69) Acidz w/500 gals 20% NE acid.

(03/70) Acidz w/500 gals 20% NE dbl inhib acid.

(05/70) Acidz w/500 gals 20% NE acid. Mix 5 gals Visco 103 demulsifier & 20 bbl 9.2# brine. Mxd 110 gals Visco 957 scale inhibitor w/20 bbls brine.

(06/71) Acidz w/500 gals 20% HCL inhib acid. Sqz w/Visco 103 & 957 dn tbq.

(09/72) Trtd w/10 bbls 9.2# brine w/2 1/2 gals Visco 103, 20 bbls brine w/2 drums Visco M-43-S & 10 bbl brine 2/ 2 1/2 gals Visco 103.

(09/73) Pmp 1 bw w/10 gals Tretolite KW-117 dn csg.

(11/73) Acidz w/750 gals 15% NEA dn tbq.

(06/76) Pmp 1000 gals Tem-Block #50 dn tbq. Fish left in hole. Set CIBP @ 3650'. Set pkr @ 3348'.

(09/87) Change out tbq. Release pkr & POH w/tbg & pkr. RIH w/115 jts 2 3/8" tbq, SN, perf sub & mud jt.

TD 3885'

**Final P&A
Schematic**

WELL NAME: H. T. Orcutt (NCT-C) Corn A #3
 API NUMBER: 30-025-04534
 COORDINATES: 1980' FNL & 1980' FEL Unit G
 SEC/TWN/RNG: 6 - 21S - 36E
 COUNTY/STATE: Lea, NM
 Drilled: 1936

OPERATOR: Chevron
 FIELD: Eumont
 DATE: 4/25/02
 BY: CRS/DCD

RKB = 5'

ZONITE Cap to 7'

10 3/4" @ 303' w/ 250 sx

10 3/4" Shoe/FW/Top Plug @ 7' - 353'
 Perf both csg strings @ 353' and pump 140 sx cmt Class C cmt
 Circ 7 5/8" x 5 1/2" annulus to surface
 and left 5 1/2" csg filled with cmt

ZONITE/Cement Plugs

ZONITE Cap	7'
10 3/4" Shoe/FW/Top Plug (Cement)	7' - 353'
Rustler/7 5/8" Shoe Plug (ZONITE)	1001' - 1180'
Bottom Plug (ZONITE)	3146' - 3256'

Rustler-7 5/8" Shoe Plug @ 1001' - 1180'
 24 cu ft ZONITE
 Wiper Plug @ 1180'

7 5/8" - 22# @ 1118', TOC = 550' by TS

Perfed @ 1130' & cmt circ to surface

Top of Salt = 1160'

Bottom Plug @ 3146' - 3256'
 16 cu ft ZONITE

Perfs: 3353 - 3624' overall

CIBP @ 3690' capped w/ 35' cmt

5 1/2" - 17# @ 3750' w/ 150 sx, TOC = 1800' by TS

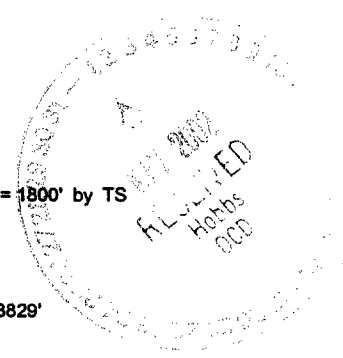
4 3/4" OH - Plugged back w/ hydromite to 3829'

3655' PBD
 3862' TD

Formation Tops

Salt	1146'
Yates	2682'
7 Rivers	2990'
Queen	3357'
Penrose	3515'

Junk in hole



WELL DATA SHEET

LEASE: H T ORCUTT NCT-C COM
 OPERATOR: CHEVRON
 LOC: 653 'F N L & 1980 'F E L
 TOWNSHIP: 21S
 RANGE: 36E UNIT: B

WELL: 8
 SEC: 6
 CNTY: Lea
 ST: N.M.

FORM: Eumont
 GL: 3551
 KB:
 DF:

DATE:
 STATUS: GAS
 API NO: 30-025-04537
 CHEVNO:

Date Completed:
 Initial Production:
 Initial Formation:
 FROM:

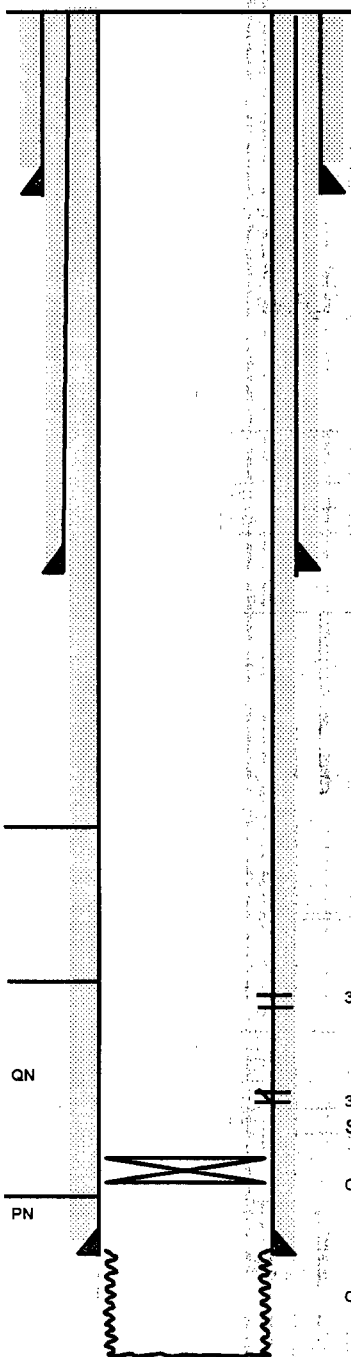
Completion Data

Subsequent Workover or Reconditioning:

10 3/4 "OD
 # CSG
 Set @ 261 'W/ 175 sx.
 Cmt circ.? yes
 TOC @ 0 'by CIRC

7 5/8 "OD
 22 # CSG
 Set @ 2572 'W/ 330 sx.
 Cmt circ.? NO
 TOC @ 880 'by CALC

5 1/2 "OD
 17 # CSG
 Set @ 3774 'W/ 300 sx.
 Cmt circ.? yes
 TOC @ 0 'by calc



3362-3470
 3498-3588
 SQZD
 CIBP AT 3600' W 35' CMT CAP
 OPEN HOLE 3740-3855

Current
 Inj. _____ bwpd @ _____ psi
 Prod. _____ bopd _____ Gas
 Date: _____
 Date: _____ mcfpd



WELL DATA SHEET

LEASE: SHELL E STATE COM
Operator: Gruy Production Management
LOC: 4620 'F S L & 1980 'F W L
TOWNSHIP: 21S
RANGE: 36E UNIT: J

WELL: 1
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Eumont
GL: 3554
KB:
DF:

DATE:
STATUS: GAS
API NO: 30-025-04538
CHEVNO:

Date Completed: 8/13/1938
Initial Production:
Initial Formation: GRAYBURG
FROM: 3780-3880

Completion Data

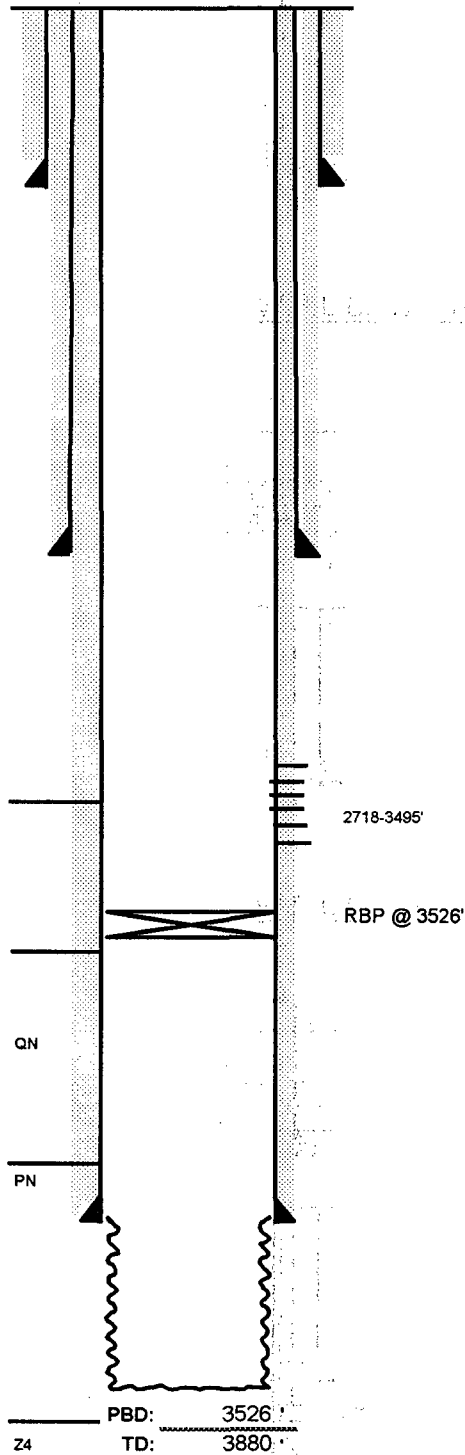
Subsequent Workover or Reconditioning:

5/1/65 TA WELL
8/1/67 SOLD TO EL PASO NAT GAS
10/1/67 PB TO 3526' PERF 2718-3495'
FRAC 20000 GALS 20K LB SAND

12 1/2 "OD
CSG
Set @ 220 'W/ 200 sx.
Cmt circ.? yes
TOC @ 0 'by

9 5/8 "OD
36 # CSG
Set @ 1177 'W/ 400 sx.
Cmt circ.? yes
TOC @ 0 'by

7 "OD
24 # CSG
Set @ 3780 'W/ 250 sx.
Cmt circ.? no
TOC @ 2024 'by calc



Current
Inj. _____ bwpd @ _____ psi
Prod. _____ bopd _____ bwpd _____ Gas
Date: _____
Date: _____ mcfpd

FILE: EMSU196WB.XLS



WELL DATA SHEET

LEASE: Shell E State
OPERATOR: Burlington Resources
LOC: 3500 'F N L & 690 'F W L
TOWNSHIP: 21S
RANGE: 36E UNIT: L

WELL: 3
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Eumont
GL: 3553
KB: 3567
DF:

DATE:
STATUS: Dryhole
API NO: 30-025-31336
CHEVNO:

Date Completed: 5/6/1992 - P&A

Initial Production:

Initial Formation:

FROM:

Completion Data

Subsequent Workover or Reconditioning:

Well was drilled by Meridian completed as a Dry hole and P&A'd
Burlington Resources succeeded Meridian as Operator

8-5/8" "OD
28 # CSG
Set @ 428 'W/ 350 sx.
Cmt circ.? yes
TOC @ 0 'by circ
42 SX CMT PLUG 480-0

Perfs:
2800-2844
3039-3076
3465-3684

10 SX CMT PLUG 1440-1560

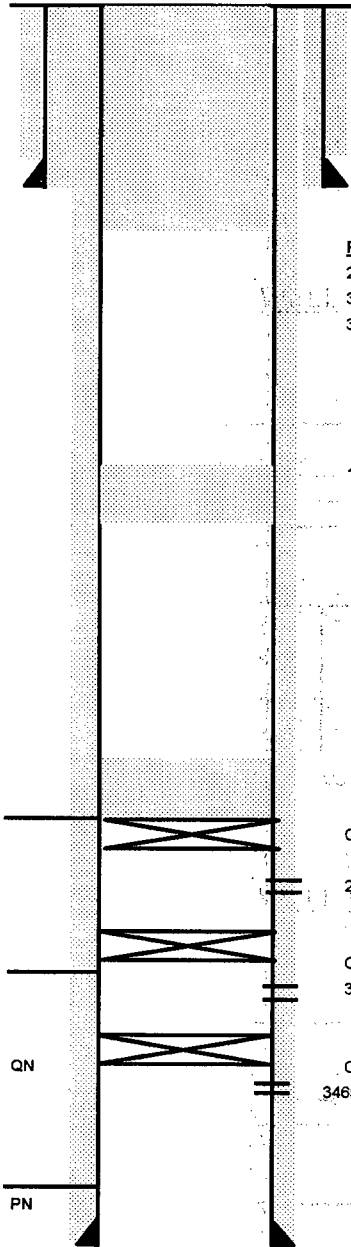
CIBP @ 2750' W CMT PLUG TAG 2450

2800-2844

CIBP @ 2990' W 3 SX CMT TAG 2955
3039-3076

CIBP @ 3400' W 3 SX CMT TAG 3366
3465-3684

4 1/2" "OD
11 3/5 # CSG
Set @ 3800 'W/ 1495 sx.
Cmt circ.? yes
TOC @ 0 'by circ



Current

Inj. _____ bwpd @
Prod. _____ bopd

_____ psi
_____ bwpd
_____ Gas

Date: _____
Date: _____
mcpd

FILE: EMSU196WB.XLS

PBD: 3800'
Z4 TD: 3800'



WELL DATA SHEET

LEASE: GRAHAM ORCUTT
LOC: 1175 'F S L & 1375 'F E L
TOWNSHIP: 21S
RANGE: 36E UNIT: L

WELL: 1
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Eumont
GL: 3577
KB: 3591
DF:

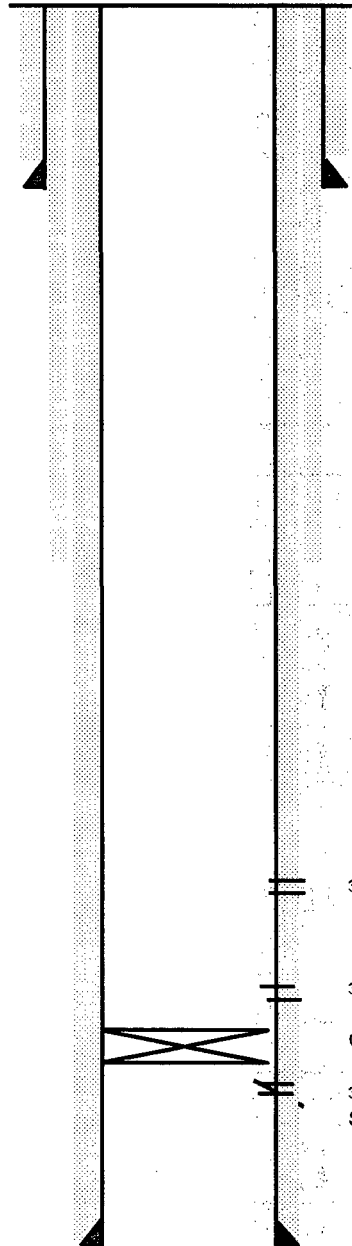
DATE:
STATUS: Gas
API NO: 30-025-30922
CHEVNO:

Date Completed:
Initial Production:
Initial Formation:
FROM:

Completion Data

Subsequent Workover or Reconditioning:

8-5/8" "OD
24 # CSG
Set @ 1203 'W/ 750 sx.
Cmt circ.? yes
TOC @ 0 'by CIRC



3052-3107

3414-3515

CIRC @ 3560

3582-3610

SQZD

5 1/2" "OD
15 1/2" # CSG
Set @ 3700 'W/ 560 sx.
Cmt circ.? yes
TOC @ 0 'by CIRC

Current

Inj. _____ bwpd @
Prod. _____ bopd

_____ psi
_____ bwpd
_____ Gas

Date: _____
Date: _____
mcfpd

FILE: EMSU196WB.XLS

PBD: 3560 '
Z4 TD: 3700 '

WELL DATA SHEET

FIELD: EUNICE
OPERATOR: UNICHEM INTL. INC.
LOC: 3222' FNL & 581' FWL, Unit L
TOWNSHIP: 21S
RANGE: 36E

WELL NAME: TRUCKERS SWD #8
 Formerly State "G" #2
SEC: 6
COUNTY: Lea
STATE: NM

FORMATION: SAN ANDRES
GL: 3554'
KB to GL:
DF to GL:
CURRENT STATUS: P&A
API NO: 30-025-08703

Date Completed: 12/36
Initial Formation: Grayburg

Completion Data:

None - natural.

Subsequent Operations:

(09/39) Ac dz w/1000 gals

(10/60) String shot OH & ac dz w/1000 gals

(10/62) TA'd

(10/74) Shell sold well to Truckers Water Co.

(03/75) Deepened well to 4435' w/6 1/8" bit, ran 4 1/2" K-55, 10.5#/ft liner from 3340'-4435', cmt w/100 sx cmt, rev out 30 sx. Perf 4395'-4435', ac dz w/500 gals 15%.

GL:

KB:

DF:

Well taken over by Unichem

1/1994 P&A

PLUGGING DETAIL

1. Pumped 100 sx @ 3070 (unable to clean out deeper)
2. Spot 30 sx 3070-2894
3. perf @ 1268 pump 30 sx outside 7" csg and spot 30 sx inside tag 1020'
4. Perf @ 248' Pump 60 sx outside 7" csg and spot 40 sx inside to surface

(10/)

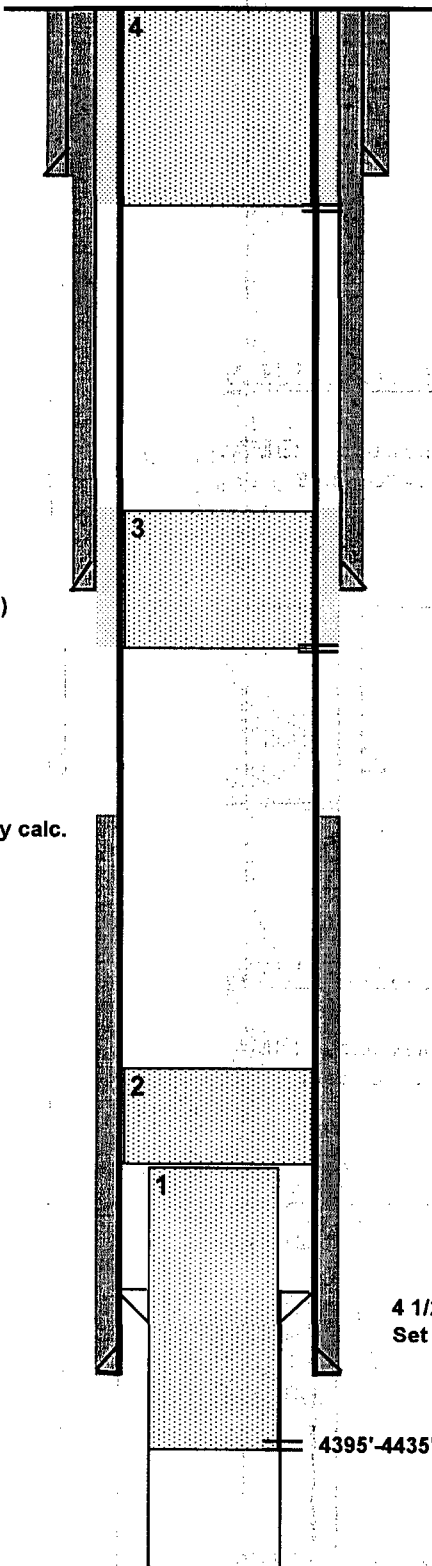
12 1/2" Csg
 Set @ 198' w/150 sx cmt.
 Circulated to surface.

9 5/8", 36# Csg
 Set @ 1218' w/375 sx cmt.
 Circulated to surface (by calc)

TOC @ 2173' by calc.

7", 24# Csg
 Set @ 3754' w/225 sx cmt.
 TOC by 2173' by calc.

4 1/2", 10.5#, K-55 Liner
 Set @ 3340'-4435' w/100 sx cmt.



TD 4435'



WELL DATA SHEET

LEASE: SHELL E STATE COM
Operator: Gruy Production Management
LOC: 3566 'F S L & 1980 'F W L
TOWNSHIP: 21 S
RANGE: 36 E UNIT: _____

WELL: 2
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Eumont
GL: 3554
KB: _____
DF: _____

DATE: _____
STATUS: GAS
API NO: 30-025-25773
CHEVNO: _____

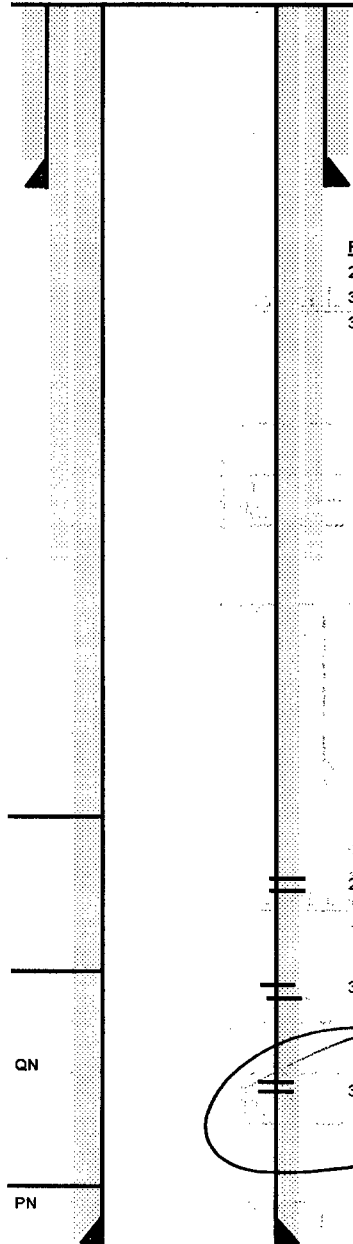
Date Completed: _____
Initial Production: _____
Initial Formation: _____
FROM: _____

Completion Data

Subsequent Workover or Reconditioning:

8-5/8" "OD
CSG
Set @ 1205 'W/ 550 sx.
Cmt circ.? yes
TOC @ _____ by _____

Perfs:
2946-2996
3375-3581
3662-3676



4 1/2" "OD
CSG
Set @ 3710 'W/ 1035 sx.
Cmt circ.? yes
TOC @ 0 'by calc

Current
Inj. _____ bwpd @ _____ psi
Prod. _____ bopd _____ bwpd
Gas _____ mcfpd
Date: _____
Date: _____

FILE: EMSU196WB.XLS

PBD: 3800 '
Z4 TD: 3713'

WELL DATA SHEET

FIELD: Eumont
OPERATOR: AMERADA HESS
LOC: 660' FNL & 1980' FEL, Unit B
TOWNSHIP: 21S
RANGE: 36E

WELL NAME: H. L. Houston Gas Com #3
SEC: 7
COUNTY: Lea
STATE: NM

FORMATION:

GL: 3600'
KB to GL:
DF to GL:

CURRENT STATUS:
API NO: 30-025-04541
REFNO: FA5683:0:AA
EMSU: 287X

Date Completed: 3/36
Initial Formation:

Completion Data:

Acidz OH w/2000 gals.

Subsequent Operations:

(06/54) Ran 5" liner f/3764'-3894' w/100 sx cmt. Perf 3825'-3845' w/4 JHPF. PB to 3720'. Perf 3108'-3142', 3306'-3336', 3362'-3405', 3445'-3553', & 3590'-3648' w/3 JHPF (819 holes). Acidz w/2500 gals 15% LST acid. Frac'd w/10,000 gals oil & 10,000# sd.

(12/58) Perf 3590'-3625' w/2 JHPF. Frac w/6000 gals oil & 6000# 20/40 sd. Frac 3108'-3553' w/20,000 gals oil & 20,000# 20/40 sd.

12 1/2" Csg
Set @ 272' w/150 sx cmt.
TOC @ 57' by calc.

TOC @ 57'

TOC @ 1389'

8 5/8", 28# Csg
Set @ 2668' w/500 sx cmt.
TOC 1389' by calc.

TOC @ 3202'

CIBP @ 3720'

6 5/8", 20# Csg
Set @ 3795' w/100 sx.
TOC @ 3202' by calc.

3108'-3142'
3306'-3336'
3362'-3405'
3445'-3553'
3590'-3648' (reperf 3590'-3625' w/2 JHPF)

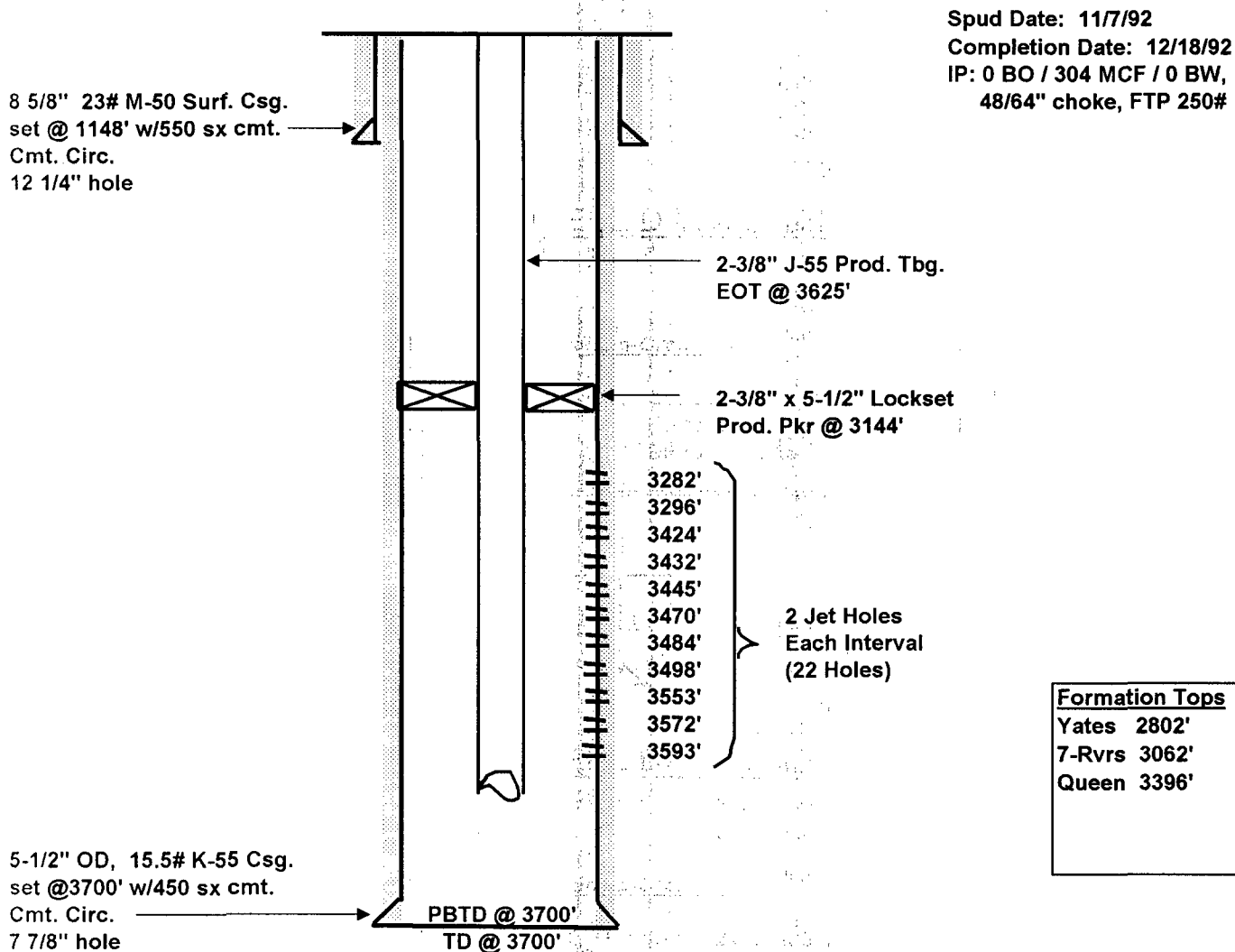
5" Liner f/3764'-3894' w/100 sx cmt.

3825'-3845'

TD 3895'

WELL DATA SHEET

FIELD: <u>Eumont</u>	WELL NAME: <u>Graham-Orcutt #4</u>	FORMATION: <u>7 Rvrs Queen Penrose</u>	
OPERATOR: <u>CHEVRON</u>	SEC: <u>5</u>	GL: <u>3585'</u>	CURRENT STATUS: <u>Prod</u>
LOC: <u>3560' FNL & 660' FWL</u>	COUNTY: <u>Lea</u>	KB to GL: <u>13.5'</u>	API NO: <u>30-025-31749</u>
TOWNSHIP: <u>21S</u>	STATE: <u>NM</u>	DF to GL: <u>12.5'</u>	REFNO: <u>OU5355</u>
RANGE: <u>36E</u>	Fee Land		
Unit Letter: <u>L</u>			



Remarks or Additional Data:
Initial completion: Acdz w/ 850 gals 15% NEFE HCL

**EMSU Nos. 196, 222, 252, and 575
Conversion to Injection
Eunice Monument South Unit
Lea County, NM**

Well No.	Max Inj. Rate (BWPD)	Avg. Inj. Rate (BWPD)	Max Inj. Press. (PSI)	Avg. Inj. Press. (PSI)	System Open	System Closed
EMSU #196	1500	750	750	650		X
EMSU #222	1500	750	750	650		X
EMSU #252	1500	750	750	650		X
EMSU #575	1500	750	750	650		X

**Data on Proposed Operation
of
Eunice Monument South Unit**

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

Average daily rate of 400 BWP
Maximum daily rate of 500 BWP

2. System is closed.
3. Proposed average and maximum injection pressures:

Average injection pressure of 350 psi
Maximum injection pressure of 740 psi *

4. The source of injection fluids will be from the San Andres formation initially, then produced water from Unit wells will be used as the primary source of water when the Unit becomes fully developed.
 5. The make-up water from the San Andres formation to be used as injection fluid is compatible with the produced water from the Unit wells (See attached water analysis).
- * Until a fracture gradient is determined, maximum injection pressure will be based on a .2 psi/foot gradient.

EXHIBIT NO. 33a

Case No. 8397

November 7, 1984

RESULT OF WATER ANALYSES

TO Mr. Stan Chapman LABORATORY NO. 284226
P.O. Box 670, Hobbs, NM SAMPLE RECEIVED 2-15-84
RESULTS REPORTED 2-20-84

COMPANY Gulf Oil Exploration & Production LEASE _____
FIELD OR POOL Company

SECTION _____ BLOCK _____ SURVEY _____ COUNTY _____ STATE _____

SOURCE OF SAMPLE AND DATE TAKEN.

NO. 1 Make-up water.

NO. 2 Produced water.

NO. 3 _____

NO. 4 _____

REMARKS: _____

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0465	1.0051		
pH When Sampled				
pH When Received	6.80	7.22		
Bicarbonate as HCO ₃	964	1,830		
Supersaturation as CaCO ₃	75	120		
Undersaturation as CaCO ₃	---	---		
Total Hardness as CaCO ₃	5,400	800		
Calcium as Ca	1,400	144		
Magnesium as Mg	462	107		
Sodium and/or Potassium	23,244	2,308		
Sulfate as SO ₄	3,432	300		
Chloride as Cl	36,575	2,841		
Iron as Fe	0.27	7.5		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	66,077	7,530		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	600	325		
Resistivity, ohms/cm at 77° F.	0.126	0.935		
Suspended Solids				
Filtrate Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	NONE	NONE		
Calcium Sulfate Scaling Tendency	NONE	NONE		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We see no evidence in the above results that would indicate any incompatibility when mixing these two waters in any proportion. Please contact us if we can be of any additional assistance in this regard.

EXHIBIT NO. 336

Case No. 8397

November 7, 1984

Geological Data
Injection Zones
in the
Proposed Eunice Monument South Unit

Penrose - Approx. depth 3,400'-3,800*, approx. 170 gross feet.

The Penrose is the lower portion of the Queen formation and overlies the Grayburg. The Penrose is composed of alternating layers of hard dolomite and sand lenses. The Penrose is productive of oil and/or gas, depending on structural position.

Grayburg - Approx. depth 3,500'-3,900*, approx. 490 gross feet.

The Grayburg is a massive dolomite with thin stringers of sand interspersed within it. The majority of oil production comes from intercrystalline porosity in the dolomite.

The range in depths to the top of the Grayburg is due to an asymmetrical anticlinal structure running NW to SE through the Eunice-Monument Pool. The structure dips steeply along the western and southern flanks and therefore the Grayburg top runs deeper, approximately 3,700'-3,900'. Along the axis and the gently dipping eastern flank of the anticline the Grayburg depths run at approximately 3,500-3,700 feet.

San Andres - Approx. depth 4,100'-4,500*, approx. 1,130 gross feet.

The San Andres is a massive dolomite with intercrystalline porosity, which lies directly below the Grayburg. The contact between the Grayburg and the San Andres is gradational and there is no clear marker for the top of the San Andres which can be traced across the field. The San Andres contributes very little if any oil production to the field and serves primarily as a source for injection make-up water and as a zone for salt water disposal.

There are no known faults cutting through the San Andres and Grayburg which would act as a conduit for gas, oil or injection water to seep into fresh water horizons above the injection zones in the Grayburg and San Andres.

* Depth depends upon structural position of the well.

EXHIBIT NO. 34a

Case No. 8397

November 7, 1984

**Geological Data
Fresh Water Aquifers
in the Area of the
Proposed Eunice Monument South Unit
Lea County, New Mexico**

The proposed Eunice Monument South Unit is located approximately 3/4 of a mile southwest of the Mescalero Ridge on the Eunice Plain.

The fresh water zones within the proposed Eunice Monument South Unit boundaries are the Quaternary alluvium, Pliocene Ogallala, and the Triassic Chinle and Santa Rosa formations.

The Quaternary aquifers are in recent sediments and are very localized in extent. They are made up of dune sands and sands filling channels or depressions in the underlying Ogallala. The sands are unconsolidated to semiconsolidated, fine to medium grained sands. They are found at the surface to a depth of approximately 100 feet.

The Pliocene Ogallala aquifer underlies the Quaternary alluvium and is present across the entire area but is not a major water source. The Ogallala is a calcareous unconsolidated sand containing some silt, clay and gravel. The Ogallala is found at approximately 60-125 feet.

The Triassic Chinle and Santa Rosa aquifers are the principal fresh water bearing zones in this area. They are both fine to medium grained sandstones interbedded with red clays and silt stones. At the northern end of the proposed unit, the Chinle is at a depth of approximately 50 feet and the Santa Rosa is at about 675 feet. At the southern end of the unit the Chinle is at approximately 200 feet and the Santa Rosa is at about 1000 feet.

Below the Santa Rosa are un-differentiated Permian and Triassic red beds. These "red beds" consist of red shales and red silty sandstones, and are not known to produce fresh water.

At the base of the Santa Rosa and/or the un-differentiated Permian and Triassic "red beds" is the Permian Rustler. At the top of the Rustler is an impermeable anhydrite bed, approximately 60-70 feet thick which provides an excellent barrier against contamination from brine waters in the Permian oil producing formations. The Rustler anhydrite is at approximately 1000 feet at the northern end of the unit and approximately 1400 feet at the southern end of the unit. There are no known fresh water horizons below the Rustler anhydrite.

For the protection of all fresh water zones within the unit boundary, cement will be circulated to surface around casing on all new injection wells and producing wells converted to injection wells.

Reference - Ground Water Report 6, USGS, 1961.

EXHIBIT NO. 36

Case No. 8397

November 7, 1984

Chemical Analysis of Fresh Water
Within The
Proposed Eunice Monument South Unit
Lea County, New Mexico

See attached water analysis results.

Sample No. 1 - Unit A Section 16, T-21-S, R-36-E
Livestock Water Source
Ogallala Formation
State Engineer's Well No. CP 00505

Sample No. 2 - Unit D Section 10, T-21-S, R-36-E
Domestic and Commercial Sale Source
Triassic Chinle Formation
State Engineer's Well No. CP 00147

Sample No. 3 - Unit K Section 36, T-20-S, R-36-E
Livestock Water Source
(Not on file with State Engineer's office)

Sample No. 4 - Unit O Section 17, T-21-S, R-36-E
Livestock Water Source
Ogallala Formation
(Not on file with State Engineers Office)

EXHIBIT NO. 37

Case No. 8397

November 7, 1984.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : GULF OIL
DATE : 9-28-84
FIELD LEASEWELL SECTION 17-T215-R36E, UNIT O
SAMPLING POINT: WELLHEAD-FRESH WATER SAMPLE
DATE SAMPLED : 9-27-84

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1055
PH = 7.21

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.4	88.1
MAGNESIUM	(MG)+2	3.8	46.1
SODIUM	(NA).CALC.	7.2	167.
ANIONS			
BICARBONATE	(HCO3)-1	4.6	286
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.2	282.
CHLORIDES	(CL)-1	5	190
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		1.4
BARIUM	(BA)+2	0	.4
MANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOIAL) = .023

#3

Proposed Eunice Monument South Unit
Lea County, New Mexico

Affirmative Statement

Gulf Oil Corporation has examined available geological and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION FOR THE PURPOSE OF
CONSIDERING:

CASE No. 8398
Order No. R-7766

APPLICATION OF GULF OIL CORPORATION
FOR A WATERFLOOD PROJECT, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This case came on for hearing at 9:00 A.M. on November 7, 1984, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission".

NOW, on this 27th day of December, 1984, the Commission, a quorum having been present, having considered the testimony and the record and being otherwise fully advised in the premises,

FINDS THAT:

(1) Due public notice has been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Gulf Oil Corporation, in Commission Case 8398, seeks authority to institute a waterflood project in its Eunice Monument South Unit, by the injection of water into the unitized interval which shall include the formations which extend from an upper limit of 100 feet below mean sea level or the top of the Grayburg formation, whichever is higher, to a lower limit being the base of the San Andres formation in the proposed unitized area, all as shown on Exhibit "A" attached to this order.

(3) The subject Commission Case 8398 was consolidated for hearing with Commission Cases 8397 and 8399.

(4) Gulf proposes to utilize an 80-acre five spot injection pattern using a well number system and proposed

Unit injection wells all as shown and identified on Exhibit "B" attached hereto.

(5) Said injection wells shall be conversions of existing wells or newly drilled wells as noted on said Exhibit "B".

(6) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(7) The producing formations in the proposed project area are in an advanced stage of depletion and the area is suitable for waterflooding.

(8) There are five wells within or adjacent to the proposed project which may not have been completed or plugged in a manner which will assure that their wellbores will not serve as a conduit for movement of injected fluid out of the injection interval.

(9) The five possible problem wells are identified and described on Exhibit "C" attached hereto.

(10) Prior to instituting injection within one-half mile of any of the five possible "problem wells" Gulf shall first contact the Oil Conservation Division's District Supervisor at Hobbs to develop a plan acceptable to the Director of said Division for repairing or replugging such wells, for monitoring for determination of fluid movement from the injected interval, or for the drilling of replacement producing wells to lower reservoir pressure and fluid levels in order to protect neighboring properties and to protect other oil or gas zones or fresh water.

(11) The operator should otherwise take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(12) The injection wells or injection pressurization system should be so equipped as to limit injection pressure at the wellhead to no more than 0.2 psi per foot of depth from the surface to the top injection perforation in any injection well, but the Division Director should have authority to increase said pressure limitation, should circumstances warrant.

(13) The subject application should be approved and the project should be governed by the provisions of Rule 701 through 708 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Gulf Oil Corporation, is hereby authorized to institute a waterflood project in the Eunice Monument South Unit Area for the acreage described on Exhibit "A" attached hereto and made a part hereof, by the injection of water into the unitized interval which shall include the formations which extend from an upper limit described as 100 feet below mean sea level or at the top of the Grayburg formation, whichever is higher, to a lower limit being the base of the San Andres formation said geologic markers having been as found to occur at 3,666 feet to 5,283 feet, respectively, in the Continental Oil Company's Meyer B-4 Well No. 23 located 660 feet from the South line and 1980 feet from the East line of Section 4, Township 21 South, Range 36 East, Lea County, New Mexico.

(2) Applicant, Gulf Oil Corporation, is hereby authorized to utilize for injection purposes the wells identified and described on Exhibit "B" attached hereto and made a part hereof.

(3) The injection wells herein authorized and/or the injection pressurization system shall be so equipped as to limit injection pressure at the wellhead to no more than 0.2 psi per foot of depth from the surface to the top injection perforation, provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.

(4) Injection into each of said wells shall be through plastic or cement-lined tubing, set in a packer which shall be located as near as practicable to the uppermost perforations, or, in the case of open-hole completions, as near as practicable to the casing-shoe; that the casing-tubing annulus shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention attracting leak detection device.

(5) Prior to injection into any well located within one-half mile of any of the five wells listed on Exhibit "C" attached to this order, the applicant shall consult with the supervisor of the Oil Conservation Division's district office at Hobbs to develop a plan acceptable to

the Director of said Division, for the repairing, plugging, or replugging of said wells or for the monitoring for determination of fluid movement from the injected interval or for the drilling of producing wells to lower reservoir pressure and fluid levels in the vicinity of said wells in order to protect neighboring properties and to protect other oil or gas zones or fresh water.

(6) The operator shall immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(7) The authorized subject waterflood project is hereby designated the Eunice Monument South Unit Waterflood Project and shall be governed by the provisions of Rules 701 through 708 of the Commission Rules and Regulations.

(8) Monthly progress reports of the waterflood projects herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(9) Jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-5-
Case No. 8398
Order No. R-7766

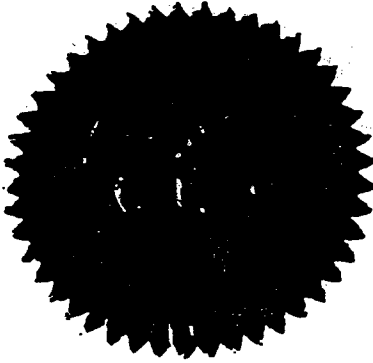
DONE at Santa Fe, New Mexico, on the day and year
hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JIM BACA, Member

Ed Kelley
ED KELLEY, Member

R. L. Stamets
R. L. STAMETS, Chairman and
Secretary



S E A L

LEA COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 36 EAST, NMPM

Section 25: All

Section 36: All

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM

Section 30: S/2, S/2 N/2, NE/4 NW/4 and NW/4 NE/4

Section 31: All

Section 32: All

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM

Section 2: S/2 S/2

Section 3: Lots 3, 4, 5, 6, 11, 12, 13, and 14
and S/2

Sections 4 through 11: All

Section 12: W/2 SW/4

Section 13: NW/4 NW/4

Sections 14 through 18: All

Section 21: N/2 and N/2 S/2

Section 22: N/2 and N/2 S/2

CASE NO. 8398
ORDER NO. R-7766
EXHIBIT "A"

LEA COUNTY, NEW MEXICO

UNIT WELL NO.	UNIT LETTER	SECTION-TOWNSHIP-RANGE		NEW WELL
		SOUTH	EAST	
101	C	30	20	37
102	A	25	20	36
104	C	25	20	36
106	E	25	20	36
108	G	25	20	36
110	E	30	20	37
112	G	30	20	37
114	I	30	20	37
116	K	30	20	37
118	I	25	20	36
120	K	25	20	36
122	M	25	20	36
124	O	25	20	36
126	M	30	20	37
128	O	30	20	37
130	A	32	20	37
132	C	32	20	37
134	A	31	20	37
136	C	31	20	37
138	A	36	20	36
140	C	36	20	36
142	E	36	20	36
144	G	36	20	36
146	E	31	20	37
148	G	31	20	37
150	E	32	20	37
152	G	32	20	37
154	I	32	20	37
156	K	32	20	37
158	I	31	20	37
160	K	31	20	37
162	I	36	20	36
164	K	36	20	36
166	M	36	20	36
168	O	36	20	36
170	M	31	20	37
172	O	31	20	37
174	M	32	20	37
176	O	32	20	37

CASE NO. 8398
ORDER NO. R-7766
EXHIBIT "B"

LEA COUNTY, NEW MEXICO

179	D	3	21	36
181	B	4	21	36
183	D	4	21	36
185	B	5	21	36
187	D	5	21	36
189	B	6	21	36
191	D	6	21	36
193	F	6	21	36
195	H	6	21	36
197	F	5	21	36
199	H	5	21	36
201	F	4	21	36
203	H	4	21	36
205	F	3	21	36
207	L	3	21	36
209	J	4	21	36
211	L	4	21	36
213	J	5	21	36
215	L	5	21	36
217	J	6	21	36
219	L	6	21	36
221	N	6	21	36
223	P	6	21	36
225	N	5	21	36
227	P	5	21	36
229	N	4	21	36
231	P	4	21	36
233	N	3	21	36
235	R	3	21	36
237	T	3	21	36
239	R	4	21	36
241	T	4	21	36
243	R	5	21	36
245	T	5	21	36
247	R	6	21	36

N

N

N

CASE NO. 8398
ORDER NO. R-7766
EXHIBIT "B"

- (1) Amoco Production Co. State "C" Tr. 11 Well No. 4 located 1980 feet from the South line and 1980 feet from the East line of Section 2, Township 21 South, Range 36 East;
- (2) Amoco Production Co. State "C" Tr. 11 Well No. 4 located 3300 feet from the South line and 1980 feet from the East line of Section 2, Township 21 South, Range 36 East;
- (3) Texas Crude Oil Co. Kincheloe 2 State Well No. 1 located 1980 feet from the South line and 1980 feet from the West line of Section 2, Township 21 South, Range 36 East;
- (4) El Paso Natural Gas Co. Coleman Well No. 1 located 2310 feet from the South line and 2310 feet from the East line of Section 17, Township 21 South, Range 36 East;
- (5) Texaco Inc. New Mexico "H" NCT-1 Well No. 28, a dry hole, located 990 feet from the South line and 660 feet from the East line of Section 31, Township 20 South, Range 37 East;

all in Lea County, New Mexico.

CASE NO. 8398
Order No. R-7766
EXHIBIT "C"

406	J	17	21	36
408	L	17	21	36
410	J	18	21	36
412	L	18	21	36
414	N	18	21	36
416	P	18	21	36
418	N	17	21	36
420	P	17	21	36
422	N	16	21	36
424	P	16	21	36
426	N	15	21	36
428	P	15	21	36
430	N	14	21	36
432	P	14	21	36
434	B	22	21	36
436	D	22	21	36
438	B	21	21	36
440	D	21	21	36
442	F	21	21	36
444	H	21	21	36
446	F	22	21	36
448	H	22	21	36
450	J	22	21	36
454	J	21	21	36
456	L	21	21	36
452	L	22	21	36

CASE 8398
 ORDER NO. R-8398
 EXHIBIT "B"

LEA COUNTY, NEW MEXICO

249	T	6	21	36
251	V	6	21	36
253	X	6	21	36
255	V	5	21	36
257	X	5	21	36
259	V	4	21	36
261	X	4	21	36
263	V	3	21	36
265	X	3	21	36
267	V	2	21	36
269	X	2	21	36
271	B	11	21	36
273	D	11	21	36
275	B	10	21	36
277	D	10	21	36
279	B	9	21	36
281	D	9	21	36
283	B	8	21	36
285	D	8	21	36
287	B	7	21	36
289	D	7	21	36
291	F	7	21	36
293	H	7	21	36
295	F	8	21	36
297	H	8	21	36
299	F	9	21	36
301	H	9	21	36
303	F	10	21	36
305	H	10	21	36
307	F	11	21	36
309	H	11	21	36
310	L	12	21	36
312	J	11	21	36
314	L	11	21	36
316	J	10	21	36
318	L	10	21	36
320	J	9	21	36
322	L	9	21	36
324	J	8	21	36

CASE NO. 8398
ORDER NO. R-7766
EXHIBIT "B"

LEA COUNTY, NEW MEXICO

326	L	8	21	36
328	J	7	21	36
330	L	7	21	36
332	N	7	21	36
334	P	7	21	36
336	N	8	21	36
338	P	8	21	36
340	N	9	21	36
342	P	9	21	36
344	N	10	21	36
346	P	10	21	36
348	N	11	21	36
350	P	11	21	36
352	D	13	21	36
354	B	14	21	36
356	D	14	21	36
358	B	15	21	36
360	D	15	21	36
362	B	16	21	36
364	D	16	21	36
366	B	17	21	36
368	D	17	21	36
370	B	18	21	36
372	D	18	21	36
374	F	18	21	36
376	H	18	21	36
378	F	17	21	36
380	H	17	21	36
382	F	16	21	36
384	H	16	21	36
386	F	15	21	36
388	H	15	21	36
390	F	14	21	36
392	H	14	21	36
394	J	14	21	36
396	L	14	21	36
398	J	15	21	36
400	L	15	21	36
402	J	16	21	36
404	L	16	21	36

N

CASE NO. 8398
ORDER NO. R-7766
EXHIBIT "B"

Chevron U.S.A. Production Company
Kevin Hickey
New Mexico Waterflood
Petroleum Engineer
15 Smith Road
Midland, Texas 79705

ChevronTexaco

December 31, 2002

**REQUEST TO PUBLISH
LEGAL NOTICE**

Hobbs News-Sun
201 N. Thorp
Hobbs, NM 88240

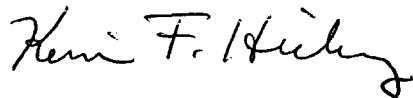
Attention: Classified Department

Chevron U.S.A. Production Company requests that you publish the attached notice in your newspaper, one time only, as soon as possible.

Please mail the invoice to the letterhead address, attention Kevin Hickey. Also please attach a copy of the notice as run in your newspaper and an affidavit certifying publication of the attached notice and the date of publication.

Your prompt assistance in this matter will be greatly appreciated. Questions may be directed to Kevin Hickey at (915) 687-7260.

Sincerely,



Kevin Hickey

KFH
Attachment

**Legal Notice
(12/27/2002)**

Chevron U.S.A. Production Co. has applied to Oil Conservation Division of the State of New Mexico for approval to convert the EMSU #196, #222, #252, and #575 to injection in their Eunice Monument South Unit. These wells are designed to improve recovery efficiency of the waterflood patterns and enhance production of the EMSU secondary recovery project. The wells are located in the following locations: #196 – Section 5, Unit E, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #222 – Section 6, Unit O, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #252 – Section 6, Unit W, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #575 – Section 31, Unit N, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. Water will be injected into the unitized interval of the Eunice Monument Grayburg-San Andres Pool which has an upper limit of 100 feet below mean sea level or the top of the Grayburg formation, whichever is higher, to a lower limit being the base of the San Andres formation. Injection will at an expected maximum rate of 1500 barrels of water per day and an expected maximum pressure of 750 pounds per square inch. Persons wanting to contact Chevron U.S.A. should direct their inquiries to Kevin F. Hickey, ChevronTexaco Inc., 15 Smith Road, Midland, TX 79705, phone (915) 687-7260.

Interested Parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505, within 15 days of this notice.

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

January 5 2003
and ending with the issue dated

January 5 2003

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 6th day of

January 2003

Jodi Benson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

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

LEGAL NOTICE

January 5, 2003

Chevron U.S.A. Production Co. has applied to Oil Conser-
vation Division of the State of New Mexico for approval to
convert the EMSU #196, #222, #252, and #575 to injec-
tion of their Eunice Monument South Unit. These wells are
designed to improve recovery efficiency of the waterflood
patterns and enhance production of the EMSU secondary
recovery project. The wells are located in the following lo-
cations: #196 - Section 5, Unit E, Township 21 South,
Range 36 East, NMPM, Lea County, New Mexico; #222 -
Section 6, Unit O, Township 21 South, Range 36 East,
NMPM, Lea County, New Mexico; #252 - Section 6, Unit
W, Township 21 South, Range 36 East, NMPM, Lea
County, New Mexico; #575 - Section 31, Unit N, Township
20 South, Range 37 East, NMPM, Lea County, New Mexi-
co. Water will be injected into the unitized interval of the
Eunice Monument Grayburg-San Andres Pool which has
an upper limit of 100 feet below mean sea level or the top
of the Grayburg formation, whichever is higher, to a lower
limit being the base of the San Andres formation. Injection
will at an expected maximum rate of 1500 barrels of water
per day and an expected maximum rate of 1500 barrels of
water per day and an expected maximum pressure of 750
pounds per square inch. Persons wanting to contact
Chevron U.S.A. should direct their inquiries to Kevin F.
Hickey, Chevron Texaco Inc., 15 Smith Road, Midland, TX
79705, phone (915) 687-7260.

Interested Parties must file objections or requests for
hearing with the Oil Conservation Division, 1220 South St.
Francis Drive, Santa Fe, NM 87505, within 15 days of this
notice.

#19493

01102480000 67511097

Chevron Texaco
15 Smith Road
MIDLAND, TX 79705

Chevron U.S.A. Production Company
Kevin Hickey
New Mexico Waterflood
Petroleum Engineer
15 Smith Road
Midland, Texas 79705

ChevronTexaco

January 10, 2003

**EMSU 196, 222, 252, and 575
CONVERSION TO INJECTION
EUNICE MONUMENT SOUTH UNIT
EUNICE MONUMENT OIL POOL
LEA COUNTY, NEW MEXICO**

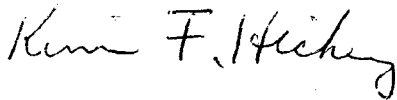
Attention: Land Owners

Ladies and Gentlemen:

Chevron U.S.A. Production Co., as operator of the Eunice Monument South Unit, has filed an application with the New Mexico Oil Conservation Division to convert the EMSU #196, #222, #252, and #575 to injection. These conversions are designed to improve recovery efficiency of the waterflood patterns and enhance production of the EMSU secondary recovery project.

Attached is an OCD Form C-108 with information relative to the water injection conversion of the referenced wells. Also, a copy of the legal notice to be posted in the Hobbs News-Sun is included. If further information is required please contact me at (915) 687-7260.

Sincerely,



Kevin F. Hickey
Petroleum Engineer
New Mexico Area

KFH
Attachments

Legal Notice

(12/27/2002)

Chevron U.S.A. Production Co. has applied to Oil Conservation Division of the State of New Mexico for approval to convert the EMSU #196, #222, #252, and #575 to injection in their Eunice Monument South Unit. These wells are designed to improve recovery efficiency of the waterflood patterns and enhance production of the EMSU secondary recovery project. The wells are located in the following locations: #196 – Section 5, Unit E, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #222 – Section 6, Unit O, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #252 – Section 6, Unit W, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico; #575 – Section 31, Unit N, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. Water will be injected into the unitized interval of the Eunice Monument Grayburg-San Andres Pool which has an upper limit of 100 feet below mean sea level or the top of the Grayburg formation, whichever is higher, to a lower limit being the base of the San Andres formation. Injection will at an expected maximum rate of 1500 barrels of water per day and an expected maximum pressure of 750 pounds per square inch. Persons wanting to contact Chevron U.S.A. should direct their inquiries to Kevin F. Hickey, ChevronTexaco Inc., 15 Smith Road, Midland, TX 79705, phone (915) 687-7260.

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**EMSU #196, #222, #252, & #575
Conversion to Injection
Eunice Monument South Unit
Lea County, NM**

Surface Land Owners

State of New Mexico
c/o State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

Millard Deck Estate and Larry Strain
c/o Ronald Rawdon
First Republic Bank
P.O. Box 1479
Ft. Worth, TX 76101-1479

Lea Partners Ltd.
Kirkwood & Darby
3000 E. Belknap, Suite 400
Ft. Worth, TX 76111

Wilberta Tivis
1902 17th St.
Eunice NM 88231

Chevron U.S.A. Production Company
Kevin Hickey
New Mexico Waterflood
Petroleum Engineer
15 Smith Road
Midland, Texas 79705

ChevronTexaco

January 10, 2003

**EMSU #196, #222, #252, & #575
CONVERSIONS TO INJECTION
EUNICE MONUMENT SOUTH UNIT
EUNICE MONUMENT OIL POOL
LEA COUNTY, NEW MEXICO**

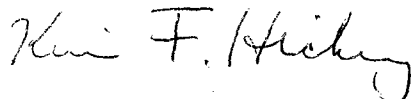
Attention: Offset Operator

Ladies and Gentlemen:

Chevron U.S.A. Production Co., as operator of the Eunice Monument South Unit, has filed an application with the New Mexico Oil Conservation Division to convert the EMSU #196, #222, #252, & #575 to injection. These conversions are designed to improve recovery efficiency of the waterflood patterns and enhance production of the EMSU secondary recovery project.

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Sincerely,



Kevin Hickey
Petroleum Engineer
New Mexico Area

KFH
Attachments

Legal Notice

(12/27/2002)

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**EMSU #196, #222, #252, & #575
Conversion to Injection
Eunice Monument South Unit
Lea County, NM**

Offset Operators

ChevronTexaco (operator)
15 Smith Rd.
Midland, TX 79705

Gruy Petroleum Management Corp.
700 N. Pearl St, #950, LB 332
Dallas, TX 75201

Exxon Mobil Corp.
P. O. Box 4697
Houston, TX 77210-4697

Bargo Petroleum
700 Louisiana, Suite 3700
Houston, TX 77002

ConocoPhillips
4001 Penbrook
Odessa, TX 79762

Apache Corporation
Two Warren Place
Suite 1500
6120 S. Vale
Tulsa, OK 74136

Occidental Petroleum Ltd
P.O. Box 50250
Midland TX 79710

Burlington Resources
P.O. Box 51810
Midland TX 79710

BP PLC
500 West Park Blvd
Houston TX 77079

Amerada Hess Corp.
P.O. Box 2040
Houston TX 77252

Koch Exploration Co.
P.O. Box 2256
Wichita KS 67201

Five States 1988-A Ltd.
Carpenter Oil & Gas Co.
Stanley F Pauley
4925 Greenville Suite 1220
Dallas TX 75206



WELL DATA SHEET

LEASE: EMSU WELL: 246
LOC: 1980' F S L & 660' F E L SEC: 6
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: Q ST: N.M.

FORM: Grayburg / San Andres DATE: _____
GL: 3576' STATUS: Producer
KB: 3576' API NO: 30-025-04527
DF: _____ CHEVNO: FA 5669-01

10-3/4" OD
40# CSG
Set @ 350' W/ 250 SX
Cmt circ.? yes
TOC @ surf. by calc.
(13-3/4" hole)

Tubing & Rod Detail: 8/7/96

Original KB to THF: 6.50'
113 Jts. 2-7/8" 6.5# J-55 EUE 8rd
tbq: 3545.79'
5-1/2" X 2-7/8" TAC: 2.75'
11 Jts. 2-7/8" 6.5# J-55 EUE 8rd
tbq: 345.86'
Pump Barrel 25.20'
2-7/8" Slotted Mud Anchor: 16.20'
Landed @ 3926.10'

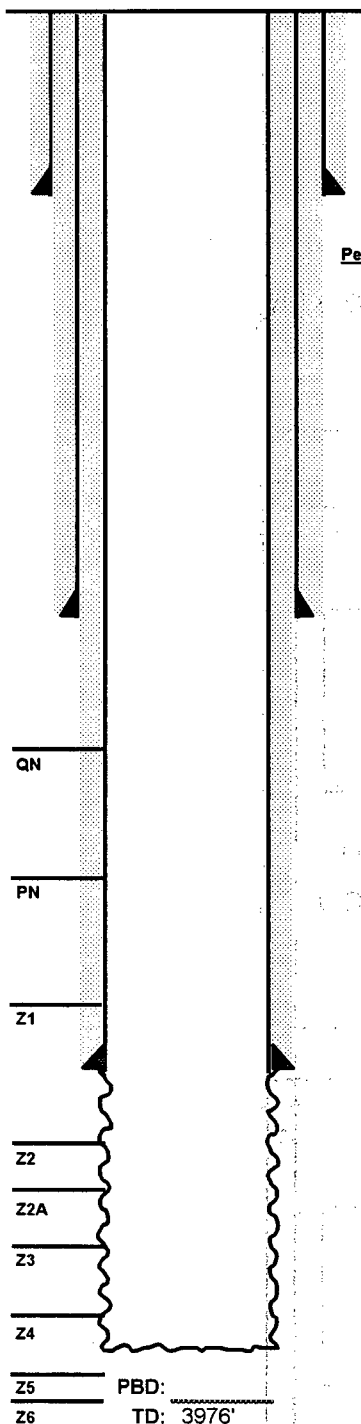
7-5/8" OD
26# CSG 8rd
Set @ 1211' W/ 300 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(9-7/8" hole)

Rod Detail: 8/7/96

Polished Rod
7/8" X 4' Pony Rod
7/8" X 8' Pony Rod
156 - 7/8" Norris-97 Rods
3/4" X 2' Pony Rod
2-1/4" X 4' Plunger

5-1/2" OD
17# CSG 10rd
Set @ 3752' W/ 300 SX
Cmt circ.? no
TOC @ 433' by calc.
(6-3/4" hole)

4-3/4" Open Hole



Date Completed: 1/15/1936
Initial Production: 7/187 BOPD / 0 BWPD
Initial Formation: Grayburg
FROM: 3752' to 3885' / GOR 1070

Completion Data

ACDZ OH w/ 2000 gals 60% HCl solution, then 3000 gals 60% HCl solution.

Subsequent Workover or Reconditioning:

3/53 Install ppg. equipment. Tst: 141 BO/ 0 BW / GOR 289. B/4 - 75 BO/ 0 BW.
8/71 Dump acid 500 gals dbi inhib 15% NeA. Tst 107 BO/ 2 BW. B/4 - 58 BO / 2 BWPD.
1/88 CO & deepened to 3976'. Test: 26 BO / 0 BW / 16 MCFG. B/4 test: 60 BO / 19 BW / 10 MCFG.
8/89 Chemical squeezed.
4/91 Upsize pumping equipment. Test - 95 BO/ 132 BW/ 16 MCFGPD. FL = SN. B/4 - 77 BO/ 1 MCFGPD. FL = 471' ASN.
8/96 ACDZ OH w/ 7500 gals resisol II in 4 stages. Swb. RTP.
7/99 Acidize 3779-3976 w/ 4000 gals with PIP packer

Additional Data:

T/Queen Formation @ 3390'
T/Penrose Formation @ 3538'
T/Grayburg Zone 1 @ 3726'
T/Grayburg Zone 2 @ 3778'
T/Grayburg Zone 2A @ 3848'
T/Grayburg Zone 3 @ 3905'
T/Grayburg Zone 4 @ 3955'
T/Grayburg Zone 5 @ 4028'
T/Grayburg Zone 6 @ 4096'
T/San Andres Formation @ 4131'
KB @ 3576'

FILE: EMSU246WB.XLS



WELL DATA SHEET

LEASE: EMSU
LOC: 1980' F S L & 2120' F E L
TOWNSHIP: 21S
RANGE: 36E UNIT: R
WELL: 247WI
SEC: 6
CNTY: Lea
ST: N.M.

FORM: Grayburg / San Andres
DATE:
GL: 3574'
KB: 3587'
DF: 13'
STATUS: Injector
API NO: 30-025-29575
CHEVNO: FV 7057-01

Date Completed: 12/17/1986
Initial Production: 12 BOPD / 135 BWPD / GOR 1333
Initial Formation: Grayburg
FROM: 3700' to 3966'

11-3/4" OD
42# CSG
Set @ 348' w/ 325 SX
Cmt circ.? yes
TOC @ surf. by calc.
(14-3/4" hole)

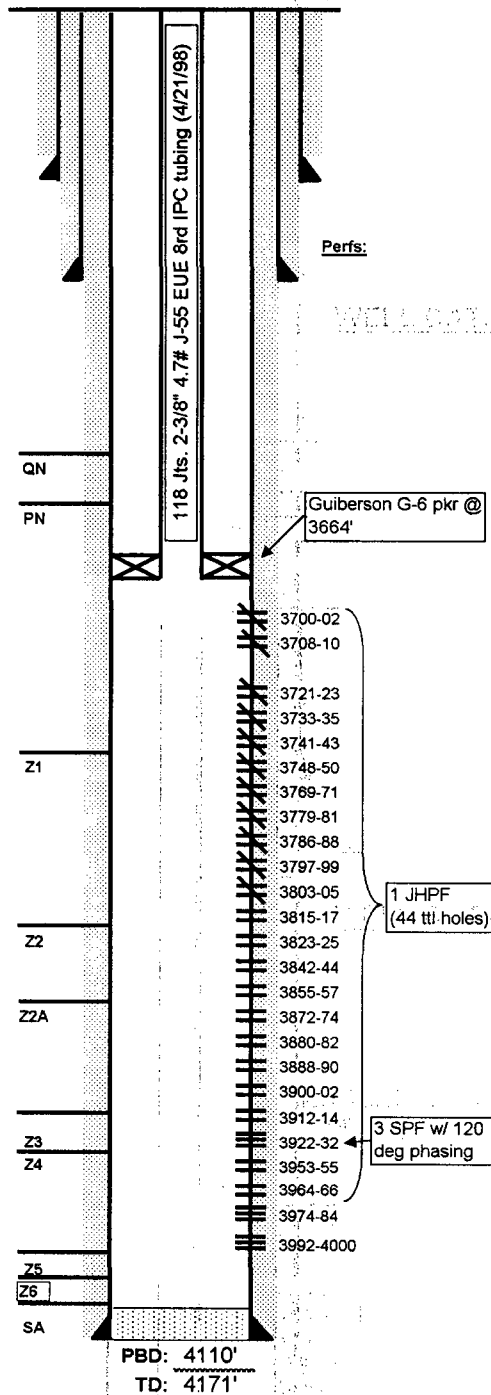
8-5/8" OD
24# CSG
Set @ 2632' w/ 625 SX
Cmt circ.? yes
TOC @ surf. by calc.
(11" hole)

Tubing Detail: 4/21/98

KBTH: 13.00'
118 Jts. 2-3/8" 4.7# J-55 EUE IPC
tbg: 3586.50'
XL O/O Tool w/ 1.781 "F" Nipple
1.97'
Guiberson G-6 Packer 3.74'
1 WL Re-Entry Guide 0.55'
Landed @ 3668.87'

5-1/2" OD
15.5# CSG
Set @ 4155' w/ 525 SX
Cmt circ.? yes
TOC @ surf. by calc.
(7-7/8" hole)

FILE: EMSU247WB.XLS



Completion Data

12/88 Perf 3953-55 & 3964-66 (1 JHPF). ACDZ w/ 600 gals 15% NeFe HCl.
Perf 3700-02, 3708-10, 3721-23, 3733-35, 3741-43, 3748-50, 3769-71, 3779-81, 3786-88, 3797-99, 3803-05, 3815-17, 3823-25, 3842-44, 3855-57, 3872-74, 3880-82, 3888-90, 3900-02 & 3912-14 (1 JHPF/40 total holes). ACDZ w/ 3500 gal 15% NeFe HCl.

Subsequent Workover or Reconditioning:

12/87 Put on injection: 720 BWIPD @ 0 psig.
5/94 ACDZ w/ 5000 gals 15% NeFe / Unisol mix.
A - 1490 BWIPD @ 0 psi B - 360 BWIPD @ 552 psi
1/27/97 POOH w/ pkr. Tag @ 3983. Dump 2600# frac sand.
1/28/97 Tag @ 3683. Clean out sand to 3810'.
1/29/97 Set CIRC @ 3630'. M&P 125 SX CI C + additives. SQZD 97 SX in form. Drill cmt & CIRC to 3809'. Circ. hole clean. SFL @ surf. EFL @ 1200'. CO sand & scale to 4110'.
2/3/97 ACDZ w/ 1500 gals Resisol II f/ 3815-3966'.
2/4/97 RIH w/ pkr, set @ 3677 (118 jts 2-3/8" IPC tbg). TOTP.
4/13/98 Perf 3992-4000, 3974-84 & 3922-32 (3 SPF). ACDZ OH w/ 2500 gals 15% 90/10 Resisol II and N2. Dump 4500# 20/40 sand. Wash sd to 3798', circ. clean. Set CIBP @ 3794'. ACDZ w/ 1000 gals 15% 90/10 HCl. Set CIRC @ 3636'. M&P 200 SX CI C and SQZD 31 SX in form. D/O CIRC, cmt & CIBP to 3794'. Wash sd to 4110'. Set pkr @ 3664'. Run MIT. RTI 4/21/98.
11/1999 attempt to acidize w CTU and had communication.
10/2000 Acidize w CTU w 3500 gals foamed acid w/ Vortech tool

Additional Data:

T/Queen Formation @ 3404'
T/Penrose Formation @ 3558'
T/Grayburg Zone 1 @ 3747'
T/Grayburg Zone 2 @ 3809'
T/Grayburg Zone 2A @ 3868'
T/Grayburg Zone 3 @ 3911'
T/Grayburg Zone 4 @ 3941'
T/Grayburg Zone 5 @ 4009'
T/Grayburg Zone 6 @ 4047'
T/San Andres Formation @ 4079'
KB @ 3587'



TA WELL DATA SHEET

LEASE: EMSU

WELL: 248

FORM: Grayburg / San Andres

DATE:

LOC: 1980' F S L & 1822' F W L

SEC: 6

GL: 3567'

STATUS: SI Producer

TOWNSHIP: 21S

CNTY: Lea

KB: 3578'

API NO: 30-025-04521

RANGE: 36E UNIT: S

ST: N.M.

DF:

CHEVNO: FA 5663:01

(formerly: State "K" Co NCT-A #6)

Date Completed: 7/2/1936

Initial Production: 7/528 BOPD / 0 BOPD

Initial Formation: Grayburg

FROM: 3773' to 3867' / GOR 1335

Completion Data

None - natural completion.

Subsequent Workover or Reconditioning:

9/48 Perf 5-1/2" csg 3703-3734'. ACDZ 3703-33' w/ 500 gals 20% acid. ACDZ 3776-3735' w/ 500 gals 20% acid (refer to previous WB diagram).

9/10/40 PB to 3846' w/ 3 SX cement.

6/47 PB to 3807'.

10/8/51 PB to 3625' & perf 2970-3015' and 3053-3120'.

1/20/70 ACDZ perfs w/ 1500 gals 28% acid.

4/30/74 Perf 3420-57' & ACDZ w/ 2000 gals. FRAC 3420-3457' w/ 11,500 gals Gel brine & 11,000# sand.

7/87 SQZD perfs 2970-3120, 3703-34 & 3420-57. D/O to 3867'. Test csg to 550 psi f/ 30 min - OK.

10/28/88 Chemical squeeze.

6/7/89 Chemical squeeze.

3/14/90 Chemical squeeze.

5/9/01 MIRU, L/D rods, prod pmp, & 2-7/8" tbg, and GIH w/ 4-3/4" bit & 5-1/2" csg scrapper, to 3710'. Set CIBP @ 3678', circ well w/ pkr fluid. Well TA'd.

Additional Data:

T/Queen Formation @ 3420'

T/Penrose Formation @ 3575'

T/Grayburg Zone 1 @ 3755'

T/Grayburg Zone 2 @ 3819'

T/Grayburg Zone 2A @ 3868'

T/Grayburg Zone 3 @ 3928'

T/Grayburg Zone 4 @ 3958'

T/Grayburg Zone 5 @ 4046'

T/Grayburg Zone 6 @ 4107'

T/San Andres Formation @ 4151'

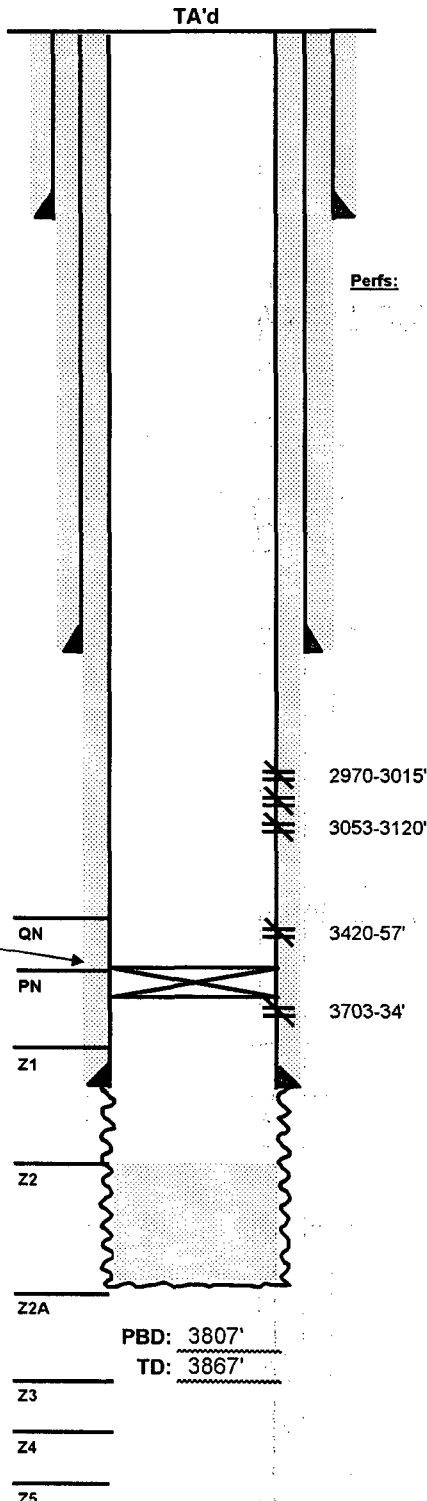
KB @ 3578'

12-1/2" OD
CSG
Set @ 281' W/ 200 SX
Cmt circ.? yes
TOC @ surf. by calc.
(16" hole)

8-5/8" OD
32# CSG 10rd
Set @ 1388' W/ 800 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(11-3/4" hole)

5-1/2" OD
17# CSG 10rd
Set @ 3770' W/ 800 SX
Cmt circ.? yes
TOC @ surf. by calc.
(7-7/8" hole)

OCD TA-PROPOSAL,
Set CIBP @ 3678', Circ hole
w/Pkr fluid



FILE: EMSU248WB.XLS



TA WELL DATA SHEET

LEASE: EMSU WELL: 250
LOC: 660' F S L & 581' F W L SEC: 6
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: U ST: N.M.
(formerly: R.R. Bell NCT-D #2)

FORM: Grayburg / San Andres DATE: _____
GL: 3585' STATUS: TA'D
KB: 3585' API NO: 30-025-04526
DF: _____ CHEVNO: FA 56680:01

Date Completed: 12/12/36
Initial Production: 7804 BOPD
Initial Formation: Queen-Grayburg
FROM: 3774' to 3888' / GOR 1238

Completion Data

ACDZ w/ 3000 gals 14% acid.

Subsequent Workover or Reconditioning:

10/44 Install gas lift.
5/8/53 Install pumping equipment.
6/01 Set CIBP @ 3740', circ well w/ packer fluid and TA well

Additional Data:

T/Queen Formation @ 3599'
T/Penrose Formation @ 3770'
T/Grayburg Zone 1 @ 3940'
T/Grayburg Zone 2 @ 4003'
T/Grayburg Zone 2A @ 4052'
T/Grayburg Zone 3 @ 4112'
T/Grayburg Zone 4 @ 4140'
T/Grayburg Zone 5 @ 4216'
T/Grayburg Zone 6 @ 4266'
T/San Andres @ 4306'
KB @ 3585'

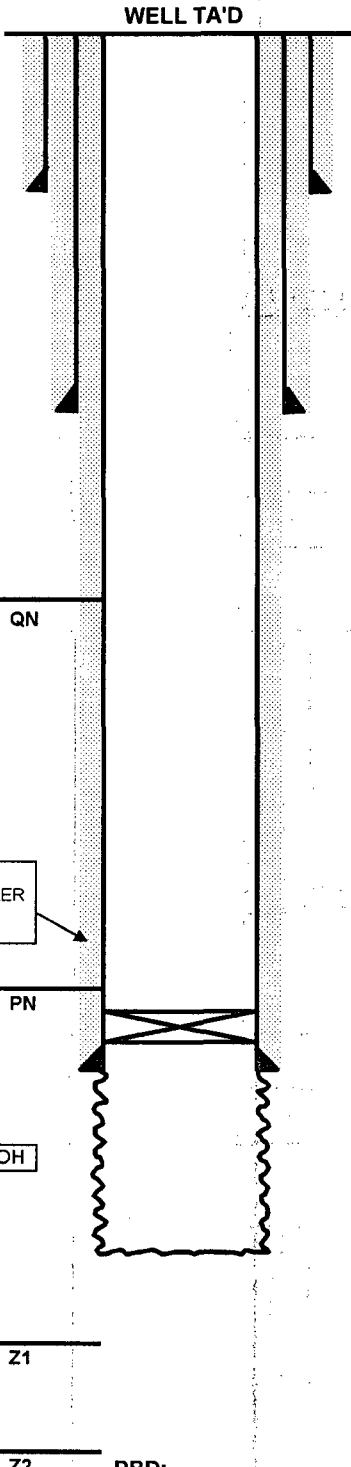
16" OD
70# CSG
Set @ 32' W/ 60 SX
Cmt circ.? Yes
TOC @ surf. by calc.

7-5/8" OD
22# CSG
Set @ 1320' W/ 500 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(9-7/8" hole)

5-1/2" OD
17# CSG 10rd
Set @ 3774' W/ 150 SX
Cmt circ.? No
TOC @ 2114' by calc.
(6-3/4" hole)

CIBP SET @ 3740'
WELL CIRC'D W/ PACKER
FLUID

4-3/4" OH



FILE: EMSU250WB.XLS

PBD: _____
TD: 3888'



WELL DATA SHEET

LEASE: EMSU

WELL: 251WI

FORM: Grayburg / San Andres

DATE:

LOC: 660' F S L & 1980' F W L

SEC: 6

GL: 3581'

STATUS: Injector

TOWNSHIP: 21S

CNTY: Lea

KB: 3578'

API NO: 30-025-04520

RANGE: 36E UNIT: V

ST: N.M.

DF:

CHEVNO: FA 5662:01

(formerly: State "K" #1)

Date Completed: 5/20/1936

Initial Production: 7/1480 BOPD / 0 BWPD

Initial Formation: Grayburg

FROM: 3745' to 3860' / GOR 0

Completion Data

5/36 Natural completion.

Subsequent Workover or Reconditioning:

10/43 Acdz 3820-3886 w/ 600 gals 15% acid

10/44 Acdz 3820-3886 w/ 300 gals 15% acid

1/48 Acdz w/ 200 gals

1/50 Acdz 3795-3842 w/ 500 gals 20% acid

5/59 Well pmpg 28 BO/722 BW

8/21/87 Tag fill @ 3871'. Deepen to 3910'. Log w/ CNL, GR, CCL, caliper. RIH w/ PE. RTP.

2/88 Tag fill @ 3841'. Deepen to 4059'. Log w/ cal, CNL, GR, CCL. RIH w/ 5-1/2" Baker TSN-2 pkr on 123 jts 2-3/8" IPC J-55 4.7# EUE 8rd tbg to 3753'. Set pkr @ 3759' w/ 7K compression.

1/30/97 TOH w/ pkr.

1/31/97 Dump 5200# frac sand, tag 3865'.

2/4/97 Set CICR @ 3697', cmt w/ 125 SX Class C.

2/5/97 Tag cmt @ 3637', D/O cmt & CICR to 3850, void to 3852'. D/O cmt to 3865'. C/O sand to 4000'.

2/6/97 C/O sand to 4059'. RIH w/ inj equipment to 3737'. TOTP.

Additional Data:

T/Queen Formation @ 3418'

T/Penrose Formation @ 3584'

T/Grayburg Zone 1 @ 3765'

T/Grayburg Zone 2 @ 3832'

T/Grayburg Zone 2A @ 3885'

T/Grayburg Zone 3 @ 3948'

T/Grayburg Zone 4 @ 3977'

T/Grayburg Zone 5 @ 4059'

T/Grayburg Zone 6 @ 4120'

T/San Andres Formation @ 4165'

KB @ 3590'

12-1/2" OD
CSG
Set @ 254' W/ 250 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(17-1/2" hole)

11" OD
32# CSG 10rd
Set @ 1390' W/ 720 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(11" hole)

Tubing Detail: 2/6/97

Original KB to THF: 0.00'

1 Jt. 2-3/8" J-55 4.7# EUE 8rd IPC

tbg: 31.24'

2 - 6' X 2-3/8" IPC Tbg Subs: 12.15'

2 - 4' X 2-3/8" IPC Tbg Subs: 8.20'

121 Jts. 2-3/8" J-55 4.7# EUE 8rd

IPC tbg: 3679.65'

5-1/2" X 2-3/8" PC XL O/O Tool w/

1.78 "F" Nipple: 1.97'

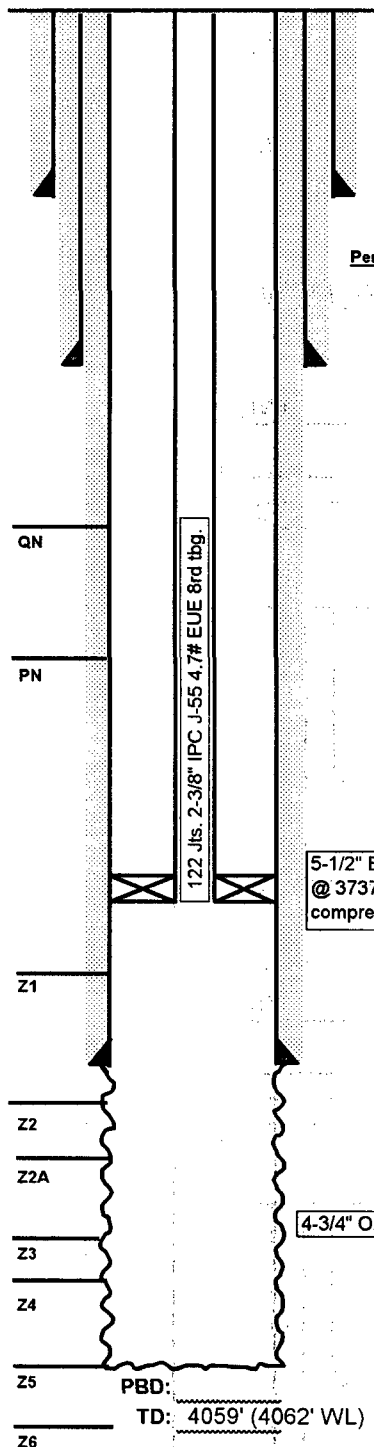
5-1/2" X 2-3/8" GIV inj pkr 17-20#: 3.73'

2-3/8" Nickle plated Pump Out

plug: 0.55'

Landed @ 3737.49'

5-1/2" OD
17# CSG 10rd
Set @ 3796' W/ 700 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(7-5/8" hole)



FILE: EMSU251WB.XLS



WELL DATA SHEET

LEASE: EMSU
 LOC: 660' F S L & 660' F E L
 TOWNSHIP: 21S
 RANGE: 36E UNIT: X
 WELL: 253WIC
 SEC: 6
 CNTY: Lea
 ST: N.M.

FORM: Grayburg / San Andres
 DATE:
 GL: 3586'
 KB: 3586'
 DF:
 STATUS: Injector
 API NO: 30-025-08702
 CHEVNO: FA 9766:01

Date Completed: 12/7/1935
 Initial Production: F/511 BOPD
 Initial Formation: Grayburg
 FROM: 3761' to 3895' / GOR 2935

Completion Data

12/35 Natural OH completion.

Subsequent Workover or Reconditioning:

1/38 BHP @ -250' SS = 1208 psi.
 11/38 ACDZ w/ 2000 gals 15% acid. Tst: F/ 124 BO (1.6% wtr). 744 MCFG.
 4/40 ACDZ w/ 1500 gals 15% & 1000 gals 7-1/2%. D/O prod. pkr & CO to TD. Pump several batches of Dowell formation plug chemical to shut off water to allow well to flow.
 11/40 ACDZ w/ 1000 gals. Tst f/ 104 BO / 0 BW. GOR = 4271.
 6/53 Install ppg. equipment. Tst: 87 BO / 0 BW / 68 MCFGPD.
 2/54 SI pumping unit. Had 260# pressure on 5-1/2" csg. Oil (and gas) flowed intermittently out the csg. ann. Cmt'd dwn 7-5/8" X 5-1/2" ann. w/ 150 SX cmt. Circ. out 10-3/4 X 7-5/8" ann. Closed 10-3/4" & bradenhead - SQZD 450 Sx dwn ann. Ran TS, bomb stopped @ 2100'. Showed cmt 2100' fr surf. Reran survey. Bomb stopped @ 2587'. Showed cmt f/ 2587' to surf. Tst: 50 BO / 0 BWPD.
 3/73 500 gal dump acid job. Tst: 68 BO / 5 BW. B/4 - 54 BO / tr wtr.
 2/79 Sd pmp 17' to TD. ACDZ w/ 750 gals 15% dbl. inhibit. acid. Tst: 70 BO / 60 BW.
 10/79 ACDZ w/ 1000 gals dbl. inhibit. NeA. Tst: 46 BO / 11 BW. B/4 - 40 BO / 7 BW.
 7/88 XO WH. CO junk to TD. Deepen to 4036'. GIH w/ TSN-II pkr on 2-3/8" IPC tbg. Circ. pkr fluid. Set pkr @ 3700'. Put on inj - Test: 711 BWIPD @ 0 psig.
 10/94 ACDZ w/ 6000 gals 15% NeFeHCl w/ Pentol 100. A - 1950 BWIPD @ Vac. B - 767 BWIPD @ 692 psi.
 2/2000 Ran isolation packer in open hole @ 3832'.

Additional Data:

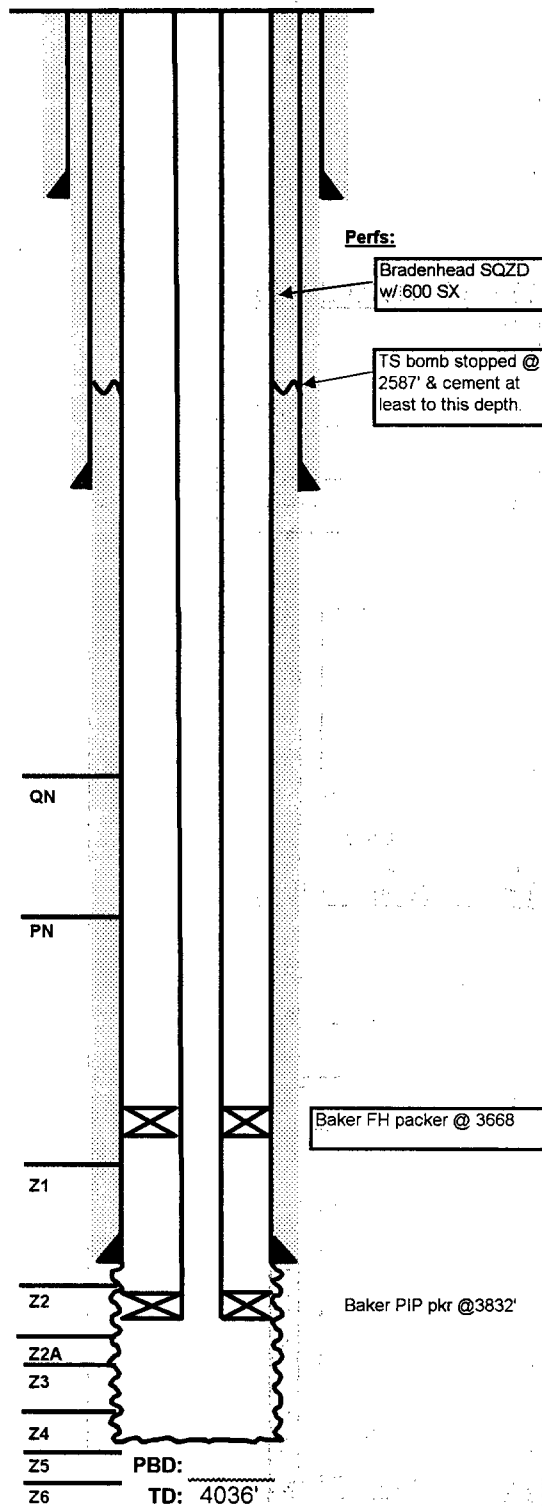
T/Queen Formation @ 3406'
 T/Penrose Formation @ 3554'
 T/Grayburg Zone 1 @ 3731'
 T/Grayburg Zone 2 @ 3790'
 T/Grayburg Zone 2A @ 3896'
 T/Grayburg Zone 3 @ 3958'
 T/Grayburg Zone 4 @ 3989'
 T/Grayburg Zone 5 @ 4040'
 T/Grayburg Zone 6 @ 4095'
 T/San Andres Formation @ 4125'
 KB @ 3586'

10-3/4" OD
 CSG
 Set @ 318' W/ 250 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

7-5/8" OD
 26# CSG
 Set @ 2753' W/ 550 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

Tubing Detail:

1 jt EPC-IPC, IPC sub, 119 jts IPC, on-off tool w/ 1.81" 'F' profile, Baker FH pkr, 5 jts EPC-IPC, 1.81" 'F' profile nipple, WL entry guide



5-1/2" OD
 17# CSG 10rd
 Set @ 3761' W/ 25 SX
 Cmt circ.? No
 TOC @ 3484' by calc.

FILE: EMSU253WB.XLS



WELL DATA SHEET

LEASE: EMSU
WELL: 286
LOC: 660' F N L & 660' F E L
SEC: 7
TOWNSHIP: 21S
CNTY: Lea
RANGE: 36E UNIT:
ST: N.M.

FORM: Grayburg / San Andres
DATE:
GL: 3590'
KB: 3590'
DF:
STATUS: Producer
API NO: 30-025-04540
CHEVNO: FA 5682.01

Date Completed: 1/23/1936
Initial Production: F/298 BOPD
Initial Formation: Grayburg
FROM: 3760' to 3880' / GOR 15101

Completion Data

Natural OH completion.

Subsequent Workover or Reconditioning:

3/50 Install ppg equip. Tst: 112 Bo / 0 BWPD.
3/68 Ppd 500 gal Toluene. Test 56 Bo / 18 BW. B/4 - 38 BO / 2 BWPD.
6/68 Ppd 800 gal condensate+ dn csg. Tst 54 BO / 9 BWPD.
12/72 Ppd 50 bbls cond. Dn csg. Tst 51 BO / NMOW.
3/73 Perf OH 3770-3828' w/ 15 FP. Acdz OH w/ 4000 gal 15% acid in 4 stgs. Tst: 43 BO / 113 BWPD. B/4 tst: 35 BO / Tr wtr.
10/80 Scale treatment.
1/88 C/O & dpnd to 3990'. Put on prod. Test 3 BO / 116 BW / 8 MCFGPD. FL=61' ASN. B/4 tst: 15 BO / 12 BW / 3 MCFPD.
8/90 Chem treatment.
12/92 Install larger pumping equip. Test: 76 BO / 181 BW / 14 MCFGPD. FL=0'
5/94 CO. Acdz 3750 gals 15%. Wash perfs w/ prod. wtr w/perf clean tool. SWB 155 BBLS wtr, 6 BBLS oil. EFL @ 2400'. SN @ 3894'. Tst: A - 88 BO / 382 BW / 48 MCFG. B/4 - 56 BO / 158 BW / 10 MCFG.
2/14/98 Acdz w/ 2000 gals 15% 90/10 resisol II using 70Q foam as diverter.
8/1999 Acid below PIP packer 3808-3981 w 3000 gals 50% foam

Additional Data:

T/Queen Formation @ 3426'
T/Penrose Formation @ 3566'
T/Grayburg Zone 1 @ 3744'
T/Grayburg Zone 2 @ 3795'
T/Grayburg Zone 2A @ 3870'
T/Grayburg Zone 3 @ 3934'
T/Grayburg Zone 4 @ 3963'
T/Grayburg Zone 5 @ 4038'
T/Grayburg Zone 6 @ 4097'
T/San Andres Formation @ 4153'
KB @ 3590'

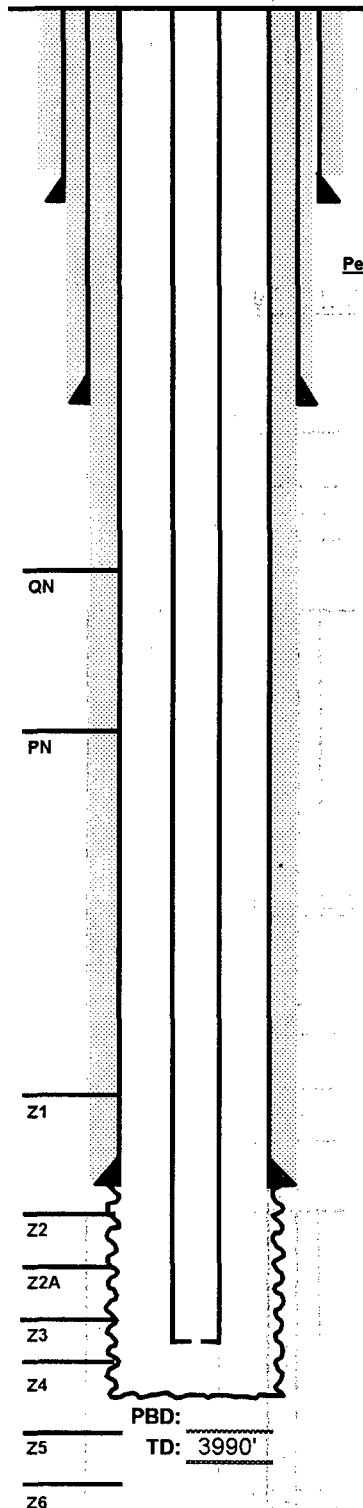
12-1/2" OD
40# CSG
Set @ 240' W/ 150 SX
Cmt circ.? No
TOC @ 25' by calc.

8-5/8" OD
28# CSG
Set @ 2689' W/ 500 SX
Cmt circ.? No
TOC @ 1410' by calc.

Tubing Detail: 2/16/98

Original KBTH: 10.00'
119 Jts. 2-7/8" J-55 6.5# EUE
tbgt: 3672.78'
2-7/8" X 7" TAC 2.72'
8 Jts. 2-7/8" J-55 6.5# EUE 246.70'
PUMP Barrel (2 5" X 2.25")
THBC-20-4-4): 25.07'
2-7/8" Slotted MA 16.00'
Landed @: 3973.27'

7" OD
24# CSG 10rd
Set @ 3760' W/ 100 SX
Cmt circ.? No
TOC @ 3058' by calc.



FILE: EMSU286WB.XLS



WELL DATA SHEET

LEASE: EMSU

WELL: 287WI

FORM: Grayburg / San Andres

DATE:

LOC: 675' F N L & 2160' F E L

SEC: 7

GL: 3595'

STATUS: Injector

TOWNSHIP: 21S

CNTY: Lea

KB: 3613'

API NO: 30-025-29909

RANGE: 36E UNIT: B

ST: N.M.

DF:

CHEVNO: IH 4137.01

Date Completed: 7/26/1987

Initial Production:

Initial Formation: Grayburg

FROM: 3758' to 3984'

Completion Data

Log w/ CBL, CET, GR, CCL. Perf 3972-84' (1JHPF). ACDZ w/ 1200 gals 15%. Swb 6/108 @ 9.4 BPH. EFL - 2700'. Perf 3841-78, 3882-90, 3901-06 & 3928-56 (1JHPF). ACDZ w/ 5950 gal 15% w/ 120 BS. Good BA. Swb 3841-3984, rec 2/203 FeR 28 BPH. EFL - 2700'. Perf 3758-77, 3780-98, 3801-16, 3820-28 (1JHPF). Acdz w/ 4500 gals 15% w/ 90 Bs. Good BA. Swb 3758-3828'. Rec 100% wtr - FeR 19 BPH. EFL - 1800'. Run TSN on 121 jts 2 3/8" IPC. Pkr @ 3725'. TOP f/inj.

Subsequent Workover or Reconditioning:

9/89 CO to 4033'. Added perfs in zone 4 @ 4000-20' (2JHPF) Acdz w/ 1500 gals 15% NeFe & 50Bs. RIH w/inj tbg. Set pkr @ 3729' w/ 7 pts comp. - 1 jt 2-3/8" IPC Below pkr. EOT = 3760'. A/W: Inj 903 BWIPD @ 40 psi. B/4 - 936 BW @ 40#.

Additional Data:

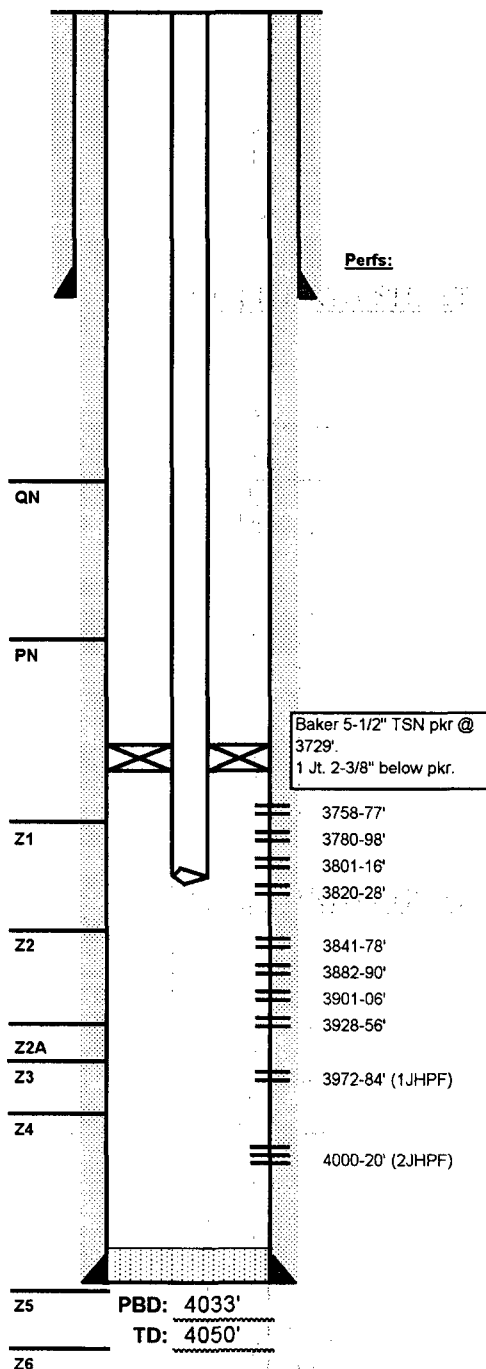
T/Queen Formation @ 3456'
T/Penrose Formation @ 3604'
T/Grayburg Zone 1 @ 3783'
T/Grayburg Zone 2 @ 3840'
T/Grayburg Zone 2A @ 3928'
T/Grayburg Zone 3 @ 3965'
T/Grayburg Zone 4 @ 3985'
T/Grayburg Zone 5 @ 4054'
T/Grayburg Zone 6 @ 4104'
T/San Andres Formation @ 4150'
KB @ 3613'

8-5/8" OD
32# CSG K-55 LT&C
Set @ 1258' W/ 750 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(12-1/4" hole)

Tubing Detail: 7/26/87

Original KBTH: 17.00'
1 Jt. 2-3/8" J-55 4.7# 8rd EUE IPC
tbg w/ SC-850: 30.29'
120 Jts. 2-3/8" J-55 4.7# 8rd EUE
IPC tbg w/ TK-69: 3677.35'
Baker TSN 5-1/2" Inj Packer 5.45'
Landed @: 3730.09'

5-1/2" OD
15.5# CSG 8rd K-55 ST&C
Set @ 4049' W/ 600 SX
Cmt circ.? Yes
TOC @ 404' by calc.
(7-5/8" hole)



FILE: EMSU287WB.XLS



WELL DATA SHEET

LEASE: EMSU WELL: 288
 LOC: 330' F N L & 2310' F W L SEC: 7
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: C ST: N.M.

FORM: Grayburg / San Andres DATE: _____
 GL: 3607' STATUS: Producer
 KB: 3607' API NO: 30-025-04552
 DF: _____ CHEVNO: FA 5694:01

Date Completed: 5/8/1936
 Initial Production: 7/878 BOPD
 Initial Formation: Grayburg
 FROM: 3826' to 3905'

Completion Data

Natural OH completion.

Subsequent Workover or Reconditioning:

6/53 PB w/ pea gravel f/ 3903-3870'. PB w/ cmt 3870-3858'.
 Acdz w/ 2000 gal 15% HCl. Put on prod. Test: 38 BO / 55
 BWPD. Workover performed to plug off water.
 1/75 T/A'd well as uneconomic.
 3/85 GIH tag @ 3905' ? (Arco) Test csg to 500 psi - OK.
 Turn over to Gulf.
 9/85 XO WH. Tag fill @ 3860'. CO to 3905'. Ran GR, CNL,
 CCL. Acdz w/ 3500 gal 15% NeFeA. Swb. Chem sqzd.
 Put on prod. Test: 10 BO / 318 BW / 32 MCFPD. B/4:
 T/A'd.
 7/86 Chem sqzd.
 11/87 Perf 3720-38' w/ 1JHPF. Acdz perfs w/ 1600 gal 15%
 NeFeA & 27 RCNBs. Swb 126 BW Tr oil, 23 runs.
 SFL=1500', EFL=2150'. Run 5-1/2" 17# Liner. TOL @
 3385'. Btm liner @ 3899'. Cmt liner w/ 50 SX. Sqzd liner top
 w/ 75 SX. D/O cmt to 3846'. Ran CBL/CET Log. Perf 3782-
 3790' w/ 1JHPF. Acdz w/ 1000 gal 15% NeFeA. Swb 5 BW
 / 0 BO in 1/2 hr. FL=1100', swb. SFL=1600'. EFL=1850'.
 18 runs, rec 60 BW. Put on prod. Test: 3 BO / 406 BW / 9
 MCFG. FL=1189' ASN. B/4 - 4 BO / 596 BW / 23 MCFG.
 1/90 POH w/ equip. Set CIBP @ 3700'. GIH circ inhib - fl.
 POH. Well T/A'd.

Additional Data:

T/Queen Formation @ 3418'
 T/Penrose Formation @ 3575'
 T/Grayburg Zone 1 @ 3760'
 T/Grayburg Zone 2 @ 3823'
 T/Grayburg Zone 2A @ 3875'
 T/Grayburg Zone 3 @ 3940'
 T/Grayburg Zone 4 @ 3974'
 T/Grayburg Zone 5 @ 4049'
 T/Grayburg Zone 6 @ 4105'
 T/San Andres Formation @ 4146'
 KB @ 3607'

12-1/2" OD
 50# CSG
 Set @ 260' W/ 275 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

9-5/8" OD
 40# CSG
 Set @ 1348' W/ 500 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

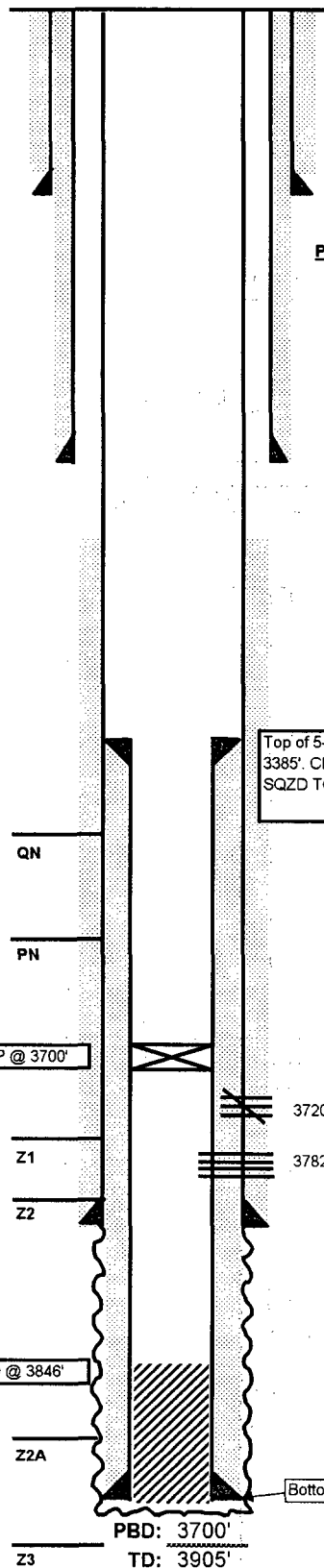
Tubing Detail:

Original KBTH: 0.00'

Landed @:

Rod Detail: 1

7" OD
 24# CSG
 Set @ 3826' W/ 250 SX
 Cmt circ.? No
 TOC @ 2289' by calc.



Perfs:

Top of 5-1/2" 17# Liner @
 3385'. CMTD w/ 50 SX.
 SQZD TOL w/ 75 SX.

3720-38'

3782-90' (1JHPF)

Bottom of Liner @ 3899'

Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 289
 LOC: 660' F S L & 581' F W L SEC: 7
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: D ST: N.M.
 (formerly: R.R. Bell NCT-D #2)

FORM: Grayburg / San Andres DATE: _____
 GL: 3592' STATUS: Producer
 KB: 3608' API NO: 30-025-08707
 DF: _____ CHEVNO: FA 97710:01

Date Completed: 8/3/36
 Initial Production: 7/468 BOPD
 Initial Formation: Grayburg
 FROM: 3819' to 3884' / GOR ---

Completion Data

8/36 Natural completion.

Subsequent Workover or Reconditioning:

3/44 Acdz OH w/ 500 gal acid.
 4/47 Acdz OH w/ 500 gal 20% acid.
 9/47 Acdz OH w/ 500 gal 20% acid.
 11/48 Acdz OH w/ 500 gal 20% acid.
 5/50 Acdz OH w/ 500 gals 20% LST NEA.
 9/50 Acdz OH w/ 500 gals 20% acid.
 10/50 Acdz OH w/ 500 gal 15% LST NEA.
 2/52 Acdz 3844-3884 w/ 500 gals 20% acid.
 7/59 Acdz OH 38193884 w/ 2000 gal 15% LSTNEA. AWW: 21 BOPD/ 85 BWPD GOR 404. B/4: 18 BOPD/ 22 BWPD GOR 647.
 8/87 Chem treat.
 9/88 Chem treat.
 10/90 Chem treat.

Additional Data:

T/Queen Formation @ 3418'
 T/Penrose Formation @ 3573'
 T/Grayburg Zone 1 @ 3760'
 T/Grayburg Zone 2 @ 3815'
 T/Grayburg Zone 2A @ 3872'
 T/Grayburg Zone 3 @ 3936'
 T/Grayburg Zone 4 @ 3970'
 T/Grayburg Zone 5 @ 4050'
 T/Grayburg Zone 6 @ 4099'
 T/San Andres @ 4135'
 KB @ 3608'

12-1/2" OD
 50# CSG
 Set @ 282' W/ 200 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (17" hole)

8-5/8" OD
 32# CSG 8rd
 Set @ 1473' W/ 800 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (11" hole)

Tubing Detail:

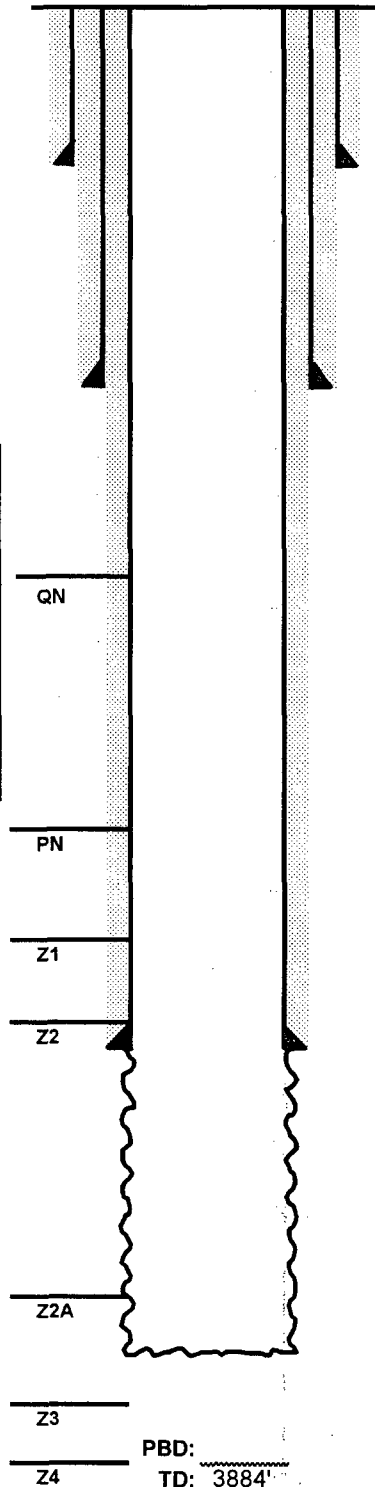
Original KBTH: 0.00'

Landed @:

Rod Detail:

NONE GIVEN

5-1/2" OD
 17# CSG 10rd
 Set @ 3819' W/ 800 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (7-5/8" hole)



FILE: EMSU289WB.XLS

PBD: _____
 TD: 3884'



WELL DATA SHEET

LEASE: EMSU WELL: 291WIC
 LOC: 1650' F N L & 1492' F W L SEC: 7
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: F ST: N.M.

FORM: Grayburg / San Andres DATE: _____
 GL: 3582' STATUS: Injector
 KB: 3582' API NO: 30-025-04553
 DF: _____ CHEVNO: FA 5695:01

Date Completed: #####
 Initial Production: F 1358BOPD
 Initial Formation: Grayburg
 FROM: 3791' to 3882'

Completion Data

10/36 Natural Completion

Subsequent Workover or Reconditioning:

3/51 ACDZ 3774-3882' w/ 1000 gals 20% acid.

1/75 TA'd

5/86 Found multiple csg leaks 600-3000'. C/O to 3887'; ran 4-1/2" 11.6# & 10.5#/sx. K-55 STC csg to 3884'. Cmt'd w/450 sx cmt flash set. D/O same, installed 7-1/16" 3M tbg head. D/O cmt to 3877'. Tested csg to 600 psi - OK. Work performed by ARCO.

12/87 XO WH - tag cmt @ 3875'. DOC 3875-3884'. Deepen to 4075'. Ran GR, CNL, CCL. Swb OH to test Z3. Set inj pkr @ 3858'. TOTP. PWOI on 12/31/87: 718 BWIPD @ 0#.

3/90 Acdz GB zones 1,2 & 3 w/ 3000 gals 15% HCL + 1250 GRS.

10/96 CO w/ CTU to 4076'. ACDZ w/ 6000 gals 15% Resisol.

Additional Data:

T/Queen Formation @ 3494'

T/Penrose Formation @ 3671'

T/Grayburg Zone 1 @ 3862'

T/Grayburg Zone 2 @ 3915'

T/Grayburg Zone 2A @ 3989'

T/Grayburg Zone 3 @ 4039'

T/Grayburg Zone 4 @ 4065'

T/Grayburg Zone 5 @ 4134'

T/Grayburg Zone 6 @ 4180'

T/San Andres Formation @ 4229'

KB @ 3582'

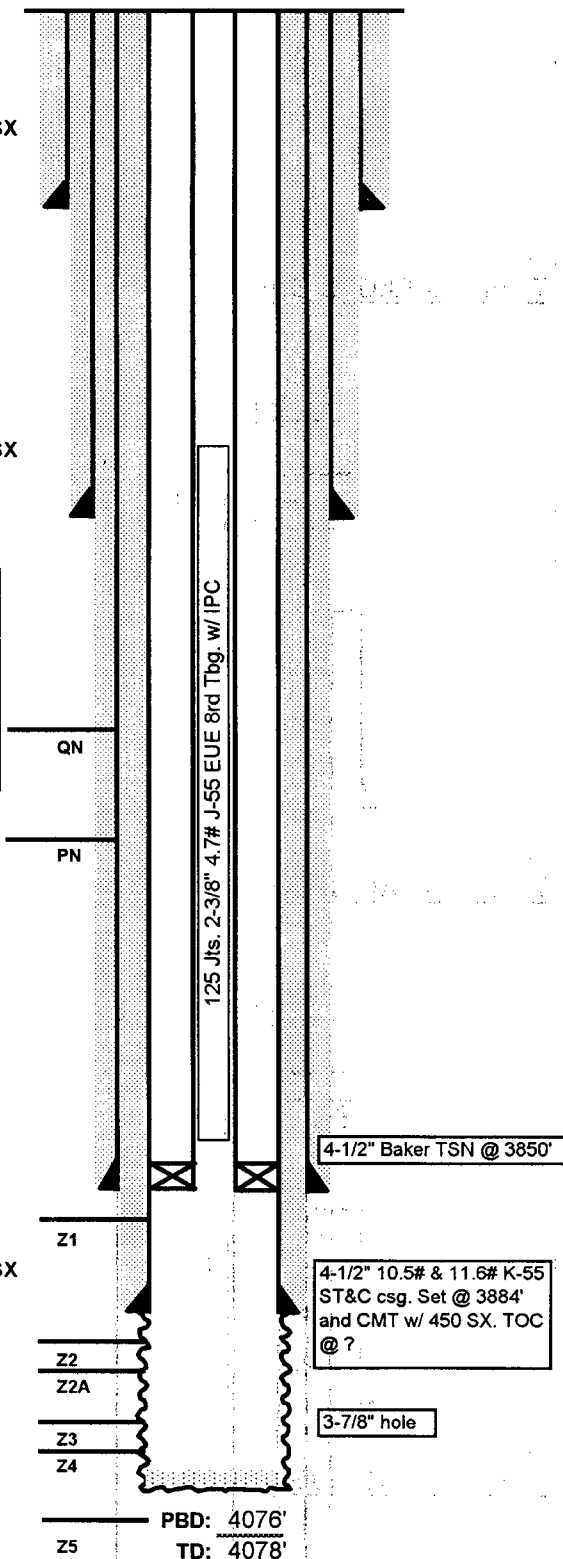
12-1/2" OD
 CSG
 Set @ 261' w/ 150 SX
 Cmt circ.? No
 TOC @ 46' by calc.

9-5/8" OD
 CSG
 Set @ 1381' w/ 500 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

Tubing Detail: 12/29/87

Original KBTH: 0.00'
 125 Jts. 2-3/8" J-55 4.7# IPC 8rd
 tbg: 3825.24'
 Baker 4-1/2" TSN Pkr 5.63'
 Landed @: 3857.87'

6-5/8" OD
 CSG
 Set @ 3791' w/ 300 SX
 Cmt circ.? No
 TOC @ 2013' by calc.



Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 292

LOC: 1980' F N L & 1980' F E L SEC: 7

TOWNSHIP: 21S CNTY: Lea

RANGE: 36E UNIT: G ST: N.M.

(formerly: H.L. Houston #4)

FORM Grayburg / San Andres DATE:

GL: 3585' STATUS: SI Producer

KB: 3597' API NO: 30-025-04542

DF: CHEVNO: FA 5684:01

Date Completed: 1/6/1937

Initial Production: F 713 BOPD

Initial Formation: Grayburg

FROM: 3797' to 3890' / GOR 631

Completion Data

1/37 Natural completion.

Subsequent Workover or Reconditioning:

3/50 Set plug @ 3815' w/ pea gravel & plastic on top. Top of plastic @ 3807'. ACDZ OH w/ 1000 gals 15% Acid. Prod survey showed wtr. entry @ 3799'. 100% wtr. f/open hole. SQZD OH w/ 100 SX (3797-3846'). D/O to 3890' (TD).

5/75 Set BP @ 3790' w/ 10 SX cmt on top. TOC @ 3677'. Perf 3666-3756'. ACDZ w/ 2500 gals 15% Acid.

Swab test -

Perfs 3666-3756' Rec'd 10 BO / 150 BW

Perfs 3714-3756' Rec'd 0 BO / 40 BW

Perfs 3666-3701' Rec'd 25 BO / 315 BW

Perfs 3691-3701' Rec'd 2 BO / 40 BW

Perfs 3666-3669' Rec'd 3 BO / 70 BW

Perfs 3666-3669' Rec'd 20 BO / 140 BW

10/84 TA'd.

7/87 Chem treat.

12/86 CO to 7-1/16 tbg head, ran 2-3/8" PE.

1/88 CO to 3795' - top of fish. Set CIBP @ 3567'. Set whipstock @ 3550-62'. Cut window & deepen to 3972'.

Log w/ CNL, CCL, Cal, GR. Run 4-1/2" 10.5# K-55 8rd ST&C liner. Set @ 3972'. TOL 3397'. Cmt w/ 75 SX Cl C. CO to 3960'. Test liner to 400 psi - OK. Perf liner 3918-3950' (32 holes). ACDZ w/ 500 gal 15% NeFe.

ReAcidz w/ 1200 gals 15% NeFe. Perf 3805 - 3878' (56 hole). Acidz w/ 600 gals 15% NeFe. Set CIBP @ 3898' & CIRC @ 3726'. SQZD perfs 3805-3878' w/ 115 SX Cl C. D/O to 3960'. RIH w/ PE. A/W - 0 BO/7 BW 48 MCF.

B/4 - 3 BO/ 262 BW/ 6 MCF.

11/2001 Set CIBP at 3898' Well TA'd

Additional Data:

T/Queen Formation @ 3451'

T/Penrose Formation @ 3600'

T/Grayburg Zone 1 @ 3785'

T/Grayburg Zone 2 @ 3843'

T/Grayburg Zone 2A @ 3928'

T/Grayburg Zone 3 @ 3971'

T/Grayburg Zone 4 @ 4005'

T/Grayburg Zone 5 @ 4091'

T/Grayburg Zone 6 @ 4155'

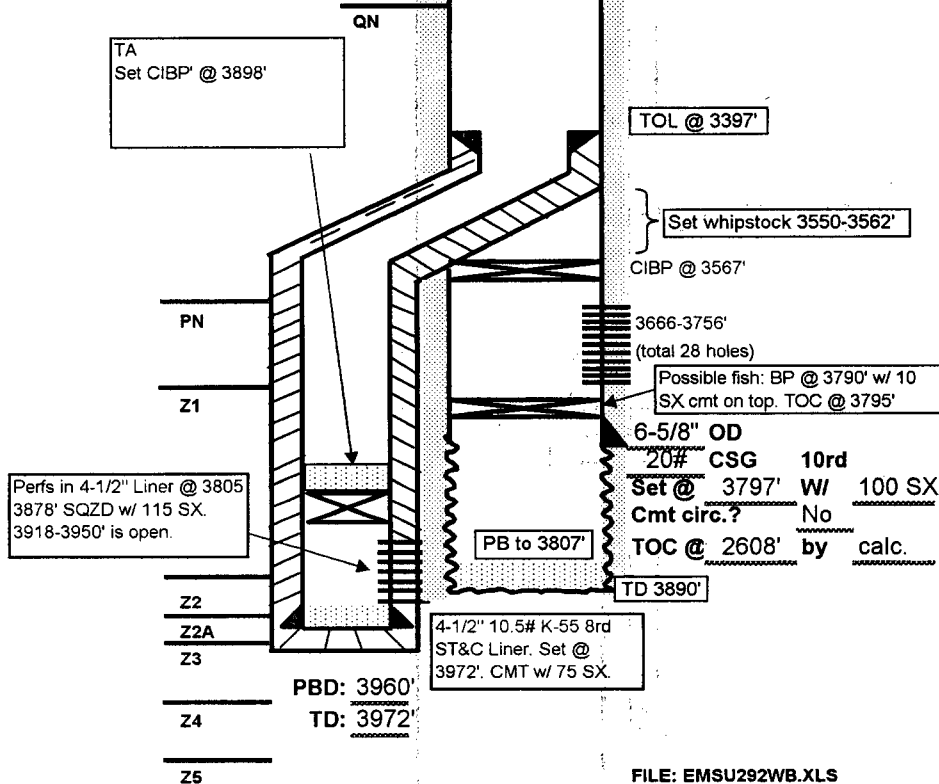
T/San Andres Formation @ 4203'

KB @ 3597'

12-1/2" OD
CSG
Set @ 232' W/ 265 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(17-1/2" hole)

8-5/8" OD
32# CSG 8rd
Set @ 2710' W/ 500 SX
Cmt circ.? No
TOC @ 893' by calc.
(11" hole)

Perfs:



FILE: EMSU292WB.XLS

WELLBORE DIAGRAM

LEASE: EMSU	WELL 554	FIELD: Eunice-Monument	API: 30-025-34845
LOC: 2490 FSL & 184 FWL, Unit	SEC: 31	BLK: T20S , R37E	REF NO: BY4279
SVY: N.M.P.M.	GL: 3531'	CTY/ST: Lea / NM	SPUD: 3/12/2000
CURRENT STATUS: Prod	KB: 3537'	DF: 3536'	TD DATE: 3/24/2000

9-5/8", 36# Csg K-55
set @ 501'
w/35%/65% POZ 200 sx
150 sx cl "C" crmt.
Cmt Circ? Yes (140 SX)
TOC @ surf. by circ.
(12-1/4" hole)

Tubing Detail: 5/23/2000

116	jts 2-7/8" 6.5# J-55	3648.57
1	2-7/8" tbg sub	3654.57
1	25 stg TD 1750 ESP pmp	3660.26
1	87stg TD 1750 ESP pmp	3675.20
1	67 stg TD 1750 ESP pmp	3687.20
1	PGS gas seperator	3689.99
1	TR4 - seal	3695.29
1	TR4 - seal	3700.99
1	90 hp motor	3717.43

Rod Detail:
N/A

501'

3706-11' sqz
3717-30'
3748-52'
3758-65'
3773-78'
3784-93'
3799-3806'
3814-20'
3847-50'
3862-66'
3876-80'
3896-3900'
3918-26'

FC @3889'

FILE: EMSU554WB.xls
DLMc: 10/5/2000

PBD @ 3936'
TD @ 3940"

Date Completed: 5-23-2000
Initial Prod: P 28 BOPD/ 412 BWPD/ 38 MCFPD
Initial Formation: Grayburg From: 3717 To: 3926'

Completion Data:

5-10-2000 RIH & tag @3889'. DO FC to 3891 & fell thru to 3936'. Pickle tbg w/ 1000 gals 15% HCl. Spot 500 gals 15% NEFE HCl f/ 3927-3620'. RIH tag TD @ 3939'. Set CIBP @ 3936'. Run SBT/CBL/GR/CCL f/ 3934-3000'. Poor bond to 3630'. Perf w/3 SPF, 120 deg phs'g 3706-11'. Set pkr @ 3724. Tst csg & CIBP to 1000# w/ no bleed off. Reset pkr @ 3716' & spot 100 gals 15% NEFE HCl across perfs. Reset pkr @ 3654'. Brk down perfs @.3 BPM w/ 1000# TP. Spot 900 gals 15% NEFE HCl, brk down perfs. Swab. SQZ'd perfs w/ 75 sc xl "C" cmt. RIH, tag @ 3572. DO cmt to 3725. Tag fill @ 3920' & wash fill to 3934'. Perf 3 SPF @ 120 deg phs'g 3717-30', 3748-52', 3758-65', 3773-78', 3784-93', 3799-3806', 3814-20', 3847-50', 3862-66', 3876-80', 3896-3900', & 3918-26'. Acdz perfs w/ 3500 gals 15% NEFE HCl dropping 350 1.1 ball sealers. Swab. Acdz perfs 3717-3926' w/ 6000 gals 15% NEFE HCl 50Q CO2, dropping 200 7/8" 1.1 SG ball sealers. Last swab made 5 runs, EFL - 2400'. Rec'd 20 bbls w/ 12% OC, good gas blow. RIH w/ ESP DT 1750 sub pmp w/ 179 stages & 90 hp mtr. 116 its w/ #6 rd cable. Intake @ 3687'. BOP @ 3717'.

Workover History:

QN

PN

41

Z2

Z3

Z4

25

FILL TO 3934'
CIBP @ 3936'

Additional Data:

T/Rustler @ 1037'
T/Salado @ 1149'
T/Tansil @ 2485
T/Yates @ 2708'
T/Seven Rivers @ 2917'
T/Queen @ 3320'
T/Penrose @ 3468'
T/Grayburg Zone 1 @ 3657'
T/Grayburg Zone 2 @ 3696'
T/Grayburg Zone 2A @ '
T/Grayburg Zone 3 @ 3780'
T/Grayburg Zone 4 @ 3824'
T/Grayburg Zone 5 @ 3898'

7", 20#, K-55,STC csg
set @ 3939' w/ 875 SX cl "C" cmt
Cmt. Circ? 160 SX
TOC @ surf. by circ.
(8-3/4" hole)

12/10/2002

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 561	FIELD: EMSU	API: 30-025-33595
LOC: 1310 FSL & 120 FEL, Unit P	SEC: 36	BLK: T21S, R36E	REF NO: BI9673:01
SVY: N.M.P.M.	GL: 3534	CTY/ST: LEA CO., N.M.	SPUD: 10/3/1996
CURRENT STATUS: Producer	KB: 3546	DF: 3545	TD DATE: 10/13/1996

8-5/8", 24#/ft, K-55 Surf.
 Pipe set @ 1156' w/ 450
 SX cmt. 90 SX circ.
 TOC @ Surf by circ.

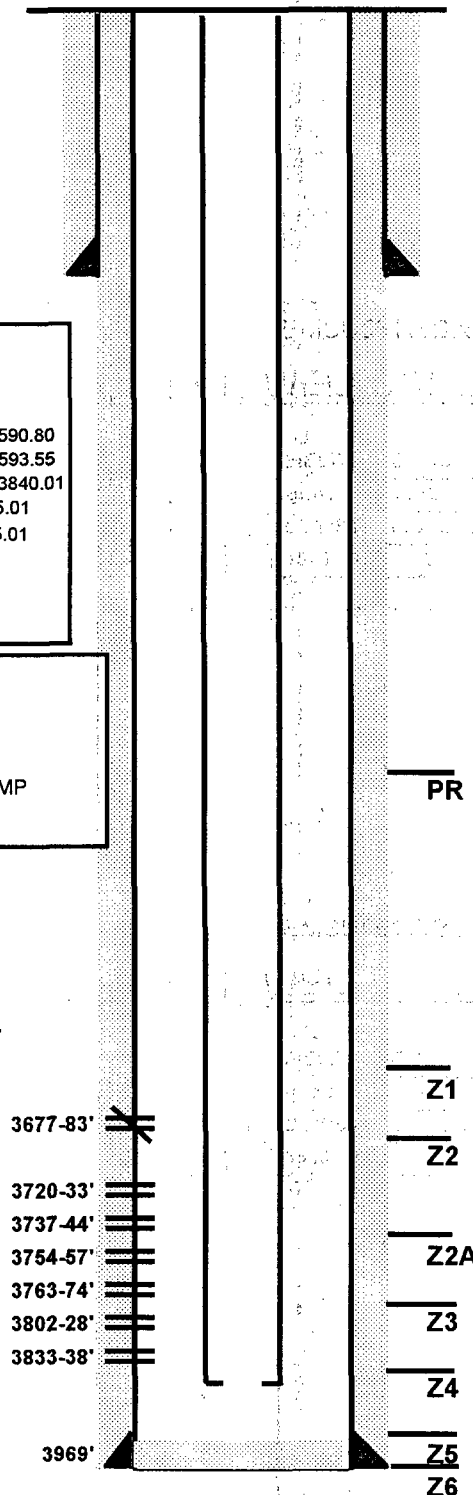
Tubing Detail: 01/30/97

KBTH:
 11.80
 114 Jts. 2-7/8" 6.5# Tbg: 3590.80
 2-7/8" X 5-1/2" TAC: 3593.55
 8 Jts. 2-7/8" Tbg 6.5# 3840.01
 2-7/8" Slotted MA 3855.01
 Landed @ 3855.01

Rod Detail:

1 26' Polish Rod
 1 7/8" x 6' Pony Rod
 151 7/8" x 25' Rods
 1 25-200-RWBC-20-3 PMP

5-1/2", 15.5#/ft, csg set @
 3969' w/ 600 SX cmt.
 Cmt Circ? Yes, 30 SX circ.
 TOC @ Surf by circ.



Date Completed: 11/22/96

Initial Prod: P 25 BOPD/ 395 BWPD/ 6 MCFPD

Initial Formation: Grayburg From: 3677' To: 3774'

Completion Data:

10/96 Perf 3763-74, 3754-57, 3737-44, 3720-33 & 3677-83 (3 JNPF @ 120 deg phasing). Brk down perms w/ 15% Resisol II. ACDZ perms w/ 3000 gal 15% Resisol II. 200 1.2 S.G. Ball sealers & 800# Trimix salt.

Workover History:

11/96 SQZD Zn 1 perms fr 3677-83 w/ 134 SX Cl C w/ 50 SX in form. Run CBL fr 3722-2450'.

1/97 Perf 3833-38 & 3802-28'. Brk down perms w/ 15% Resisol II. ACDZ perms fr 3754-3838' w/ 3000 gal 15% Resisol II & 1000# Trimix salt.

Additional Data:

T/Queen @ 3335'
 T/Penrose @ 3489'
 T/Grayburg Zone 1 @ 3665'
 T/Grayburg Zone 2 @ 3711'
 T/Grayburg Zone 2A @ 3750'
 T/Grayburg Zone 3 @ 3792'
 T/Grayburg Zone 4 @ 3851'
 T/Grayburg Zone 5 @ 3924'
 T/Grayburg Zone 6 @ 3962'
 KB @ 3546'

CURRENT WELLBORE DIAGRAM

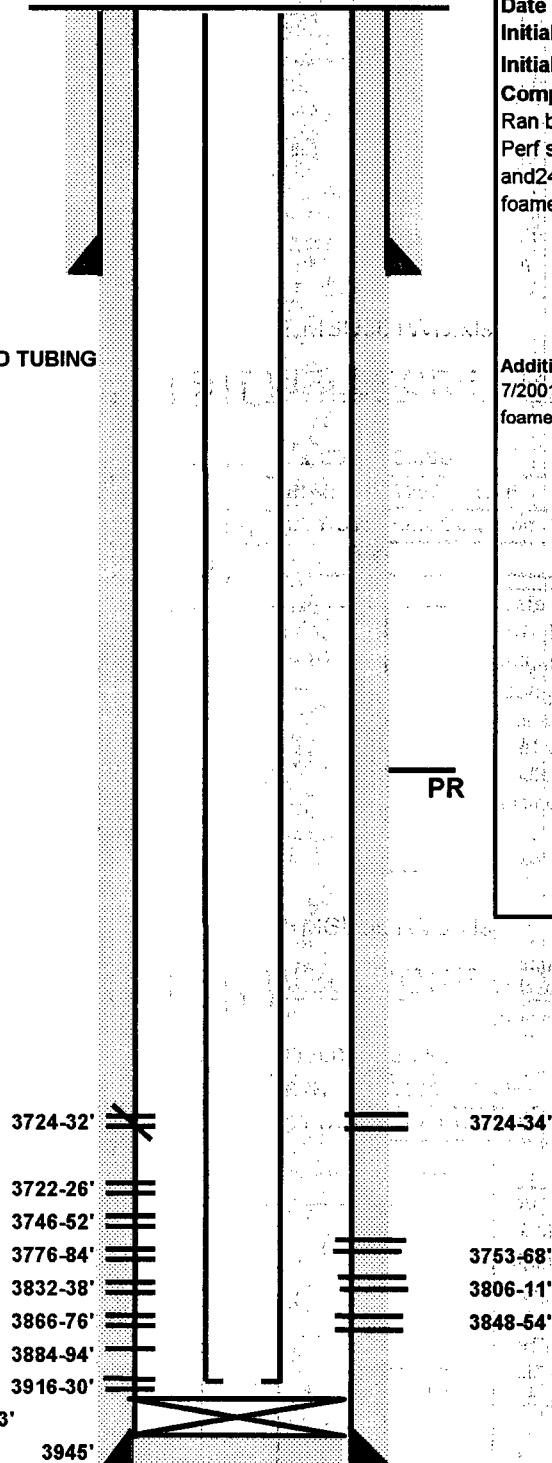
LEASE: EMSU	WELL: 562	FIELD: EMSU	API: 30-025-35462
LOC: 1270 FSL & 1410 FWL, Unit N	SEC: 31	BLK: T20S, R37E	REF NO: HC3661:01
SVY: N.M.P.M.	GL: 3531	CTY/ST: LEA CO., N.M.	SPUD: 4/20/2001
CURRENT STATUS: Producer	KB:	DF:	TD DATE: 4/26/2001

9-5/8", 36#/ft, K-55 Surf.
Pipe set @ 500' w/ 350
SX cmt.
TOC @ Surf by circ.
12.25" HOLE

2-7/8" 6.5# PROD TUBING

7", 20#/ft, csg set @
3945' w/ 800 SX cmt.
Cmt Circ? Yes,
TOC @ Surf by circ.
8.75" HOLE

CIBP SET @3933'



Date Completed: 7/17/2001

Initial Prod: P 25 BOPD/ 343 BWPD/ 24 MCFPD

Initial Formation: Grayburg From: 3722' To: 3930'

Completion Data:

Ran bond log - bad cmt. Set CIBP at 3933'.

Perf sqz holes @ 3724-32' Acidized w/ 350 gals. Sqz 130 sx lead and 24 sx tailed of foamed cmt. Perf 3722-3916'. Acidized 500 gals foamed acid.

Additional Data:

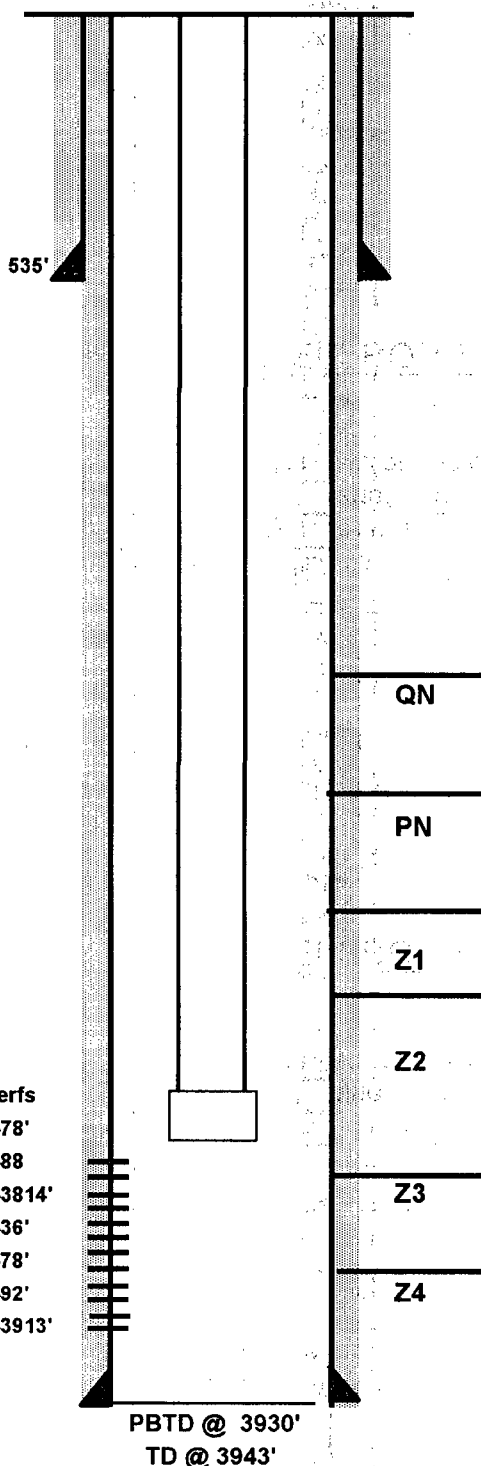
7/2001 Perf 3724-3854 Acid 1500 gals w/ ball sealers followed by 2500 gals foamed acid

WELLBORE DIAGRAM

LEASE: EUNICE MONUMENT SOUTH UNIT	WELL: 574	FIELD: Eunice-Monument	API: 30-025-35160
LOC: 100' FSL & 2489' FEL, Unit	SEC: 31	RNG: R37E	CHEVNO: HB0681
Township: T20S	GL: 3542	CTY/ST: Lea / NM	SPUD: 12/9/2000
CURRENT STATUS: Oil Producer	KB: 3548	DF:	TD DATE: 12/24/2000

9-5/8", 36# Csg K-55 LTC
 set @ 535', W/200 sx
 CL 'C', Tail w/150 sx CL 'C'
 Circ 69 sxs to Surf.
 (12-1/4" hole)

Tubing Detail:	
KB	6.00
120 JTS 2-7/8"	3724.33
2-7/8" Tbg Sub	6.00
2-7/8" X 2-3/8" XO	.70
ESP TD 1200 Esp	44.43
End of pmp	3781.46



Date Completed: 2/21/2001
Initial Prod: BOPD/ BWPD/ MCFPD
Initial Formation: From: To:
Drl Data: Deviation was out of contract, set bal. cmt. plugs @ 1150', & @ 963', side track plug @ 574'. Slide drl 596' - 634'.
Completion: Ran tbg, Spot 500 gals 15% HCL on bottom. Log 3930'-3000', good cmt bond. Perf w/4" csg guns, 3772-78, 3784'-88, 3798'-3814', 3820'-36', 3872'-78', 3884'-92' & 3898'-3913' w/3 JHPF, 120 deg ph. Acdz w/2500 gals 15% NEFE HCL. Pmp 750 gals KCL, Acdz perms w/3500 gals 15% NEFE HCL, Ovr/Fshd by 10 bbls w/CO2 cap'd w/10 bbls 1% KCL. RU & Swab. GIH w/120 jts 2-7/8" tbg to 3781', Tof Pmp @ 3724', intake @ 3751', Bm @ 3781'.

Workover History:

Additional Data:
T/Rustler @ 1061'
T/Salado @ 1150'
T/Tansil @ 2490'
T/Yates @ 2704'
T/Seven Rivers @ 2901'
T/Queen @ 3330'
T/Penrose @ 3470'
T/Grayburg Zone 1 @ 3659'
T/Grayburg Zone 2 @ 3707'
T/Grayburg Zone 3 @ 3789'
T/Grayburg Zone 4 @ 3838'

7", 20#, K-55 Csg, Cmt w/640
 sxs CL 'C'; cmt, Tail w/200 sx CL 'C'
 Circ 141 sxs. N2
 TOC @ surf. by circ.
 (8-3/4" hole)

FILE: EMSU574WB.xls
 CJH: 5/1/2001

12/10/2002

WELL DATA SHEET

FIELD: Eunice Monument South Unit

WELL NAME: EMSU 576

FORMATION: Grayburg

LOC: 10' FNL & 1145' FEL
TOWNSHIP: 21S
RANGE: 36E

SEC: 6
COUNTY: Lea
STATE: NM

UNIT:
GL: 3538'
KB: 3549'
DF: 3548'

CURRENT STATUS: Producer
API NO: 30-025-34640
CHEVNO: BW6191

8-5/8", 24#, K-55, Surf. Pipe
set @ 524.24' w/ 250 SX cmt.
TOC @ Surf by circ.
(11" hole)

Tubing Detail: 7/15/1999

119 jts 2-7/8" 6.5# j-55 tbg 3686.97
2-7/8" x 5-1/2" TAC 3689.67
6 jts 2-7/8" 6.5# j-55 tbg 3870.37
2-1/4" pmp bbl 3895.37
2-7/8" slotted maj 3911.37

Rod Detail: 7/15/1999

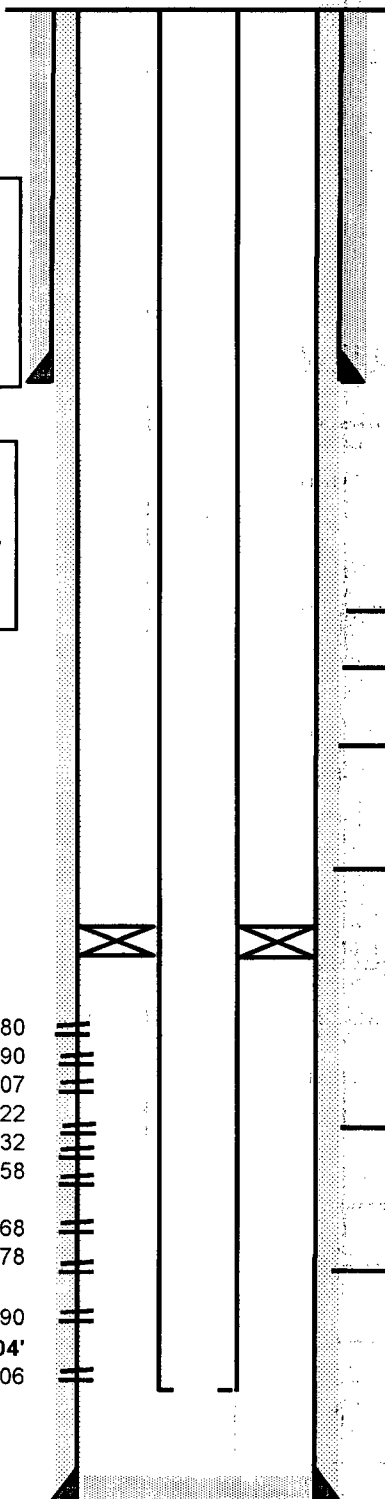
1-1/2" x 26' Polish rod 37
1 4' x 7/8" N-97 sub 41
155 7/8" N-97 rods 3916
1 1" sub 3917
2-1/2" x 4' plgr 3921

5 1/2", 15.5#, csg set @
3957.51' w/ 500 SX "C" w/
6% gel, 3% salt,
12 PPS Gilsonite, &
350 SX "C" cmt
Displace w/ 93 bbls KCl wtr
Cmt Circ.? Yes
TOC @ surf
(7-7/8" hole)

3776 - 3780
3786 - 3790
3796 - 3807
3813 - 3822
3828 - 3832
3838 - 3858

3864 - 3868
3874 - 3878

3884 - 3890
FC @ 3904'
3900 - 3906



PBTD @ 3940'
TD @ 3955'

Date Completed: July 15, 1999

Initial Prod: P128 BOPD/ 371 BWPD/ 74 MCF

Initial Formation: Grayburg From: 3776 To: 3906

OH Logs: PLEX/HALS, BHC, NGT, RFT

Completion Data:

7/9/1999: Tag @ 3906 (SLM). DO FC & cmt to 3940'. Tst csg 500# OK.
Pickle tbg w/ 1000 gals 15% HCl. Spot 500 gals 15% NEFE HCl f/ 3920-
3420. Run CBL f/ 3940 - 3800 w/ 0 psi then w/ 500 psi. Shows good
bond. Perf w/ 3 spf at 120 deg pbs'g 3776-80, 3786-90, 3796-3807, 3813-
22, 3828-32, 3838-58, 3864-68, 3874-78, 3884-90, & 3900-06. RIH w/ 5-
1/2" pkr, set @ 3689'. Acdz & brk dwn perms w/ 2500 gals 15% NEFE HCl
dropping 325 7/8 1.1 RCN ball sealers. MSPI- 1500#, AVG- 1280#, Avg
rate 2-1/2 BPM. Fair ball action. ISIP-890# BWD. Acdz perms w/ 6000 gals
15% NEFE HCl foamed to 50Q w/ CO2. Pmp 1000 gals 50Q 1% KCl wtr
ahead of acid at 3 BPM w/ 1350# TP. Acid on form at 1500# at 3 BPM,
brk'g to 1180# at 4 BPM w/ all acid on form. Flush w/ 35 bbls 50Q 1% KCl.
RIH w/ prod tbg : 119 jts 2-7/8", TAC, 6 jts 2-7/8", & pmp bbl w/ slotted
maj landed at 3911'.

Workover History:

Additional Data:

T/Rustler @ 1043'
T/Salado @ 1136'
B/Salado @ 2508'
T/Yates @ 2744' ?
T/Seven Rivers @ 2954'
T/Queen Formation @ 3343'
T/Penrose Formation @ 3502'
T/Grayburg Zone 1 @ 3680'
T/Grayburg Zone 2 @ 3729'
T/Grayburg Zone 3 @ 3822'
T/Grayburg Zone 4 @ 3877'
KB @ 3549'

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 584	FIELD: Eunice-Monument	API: 30-025-34139
LOC: 1262 FNL & 150 FEL, Unit A	SEC: 6	BLK: T21S, R36E	REF NO: BO6935:01
SVY: N.M.P.M.	GL: 3553	CTY/ST: Lea Co., NM	SPUD: 11/16/1997
CURRENT STATUS: Producer	KB: 3566	DF:	TD DATE: 12/7/1997

9-5/8", 36#/ft K-55 ST&C
Surf. Pipe set @ 515' w/
300 SX cement
Cmt Circ.? Yes
TOC @ surf. by calc.
(14-3/4" hole)

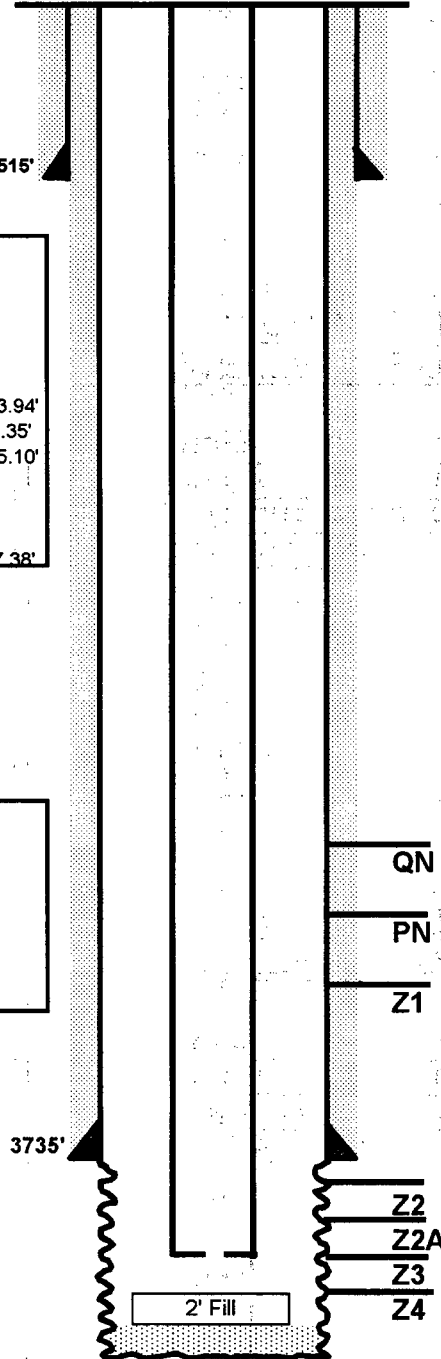
Tubing Detail: 2/18/98

KBTH:
13.00'
114 Jts. 2-7/8" 6.5# J-55:
3576.54'
9 Jts. 2-7/8" J-55 TBG 283.94'
1 2-7/8 X 2-7/8 TAC 2.35'
2-1/2 X 2-1/4 X 24' THBC 25.10'
1 SLMAJ OPOB 16.45'
Landed @ 3917.38'

7" OD, 20#/ft K-55 Csg.
set @ 3735' w/ 525 SX
Cmt Circ.? Yes
TOC @ surf. by calc.
(8-3/4" hole)

Tubing Detail: 2/18/98

1-1/2 X 26' Polished Rod
1-6' & 1-8' 7/8 97 SUBS
1 2-1/4 Martin Ring Plunger
154 7/8" X 25' N-97 Rods



Date Completed: 1-13-98
Initial Prod: 120 BOPD/ 270 BWPD/ GOR 250
Initial Formation: Grayburg From: 3735' To: 3950'
Completion Data:
11/23/97 Wash csg. 60' to bottom & circ. Drill to 3735'. Cmt 1st stage w/ 100 SX, circ. approx. 55 SX & drop bomb. Open DVT w/ 1800 psi & circ. Cmt 2nd stage w/ 350 SX, mixed w/ 12.7 ppg. Tail w/ 75 SX, circ. 86 SX cmt. Four cores taken and logs run.

Workover History:

2/13/98 ACDZ OH f/ 3905-3950' w/ 1500 gal 15% Resisol II w/ 80/20 acid/toluene. ACDZ Zn 2 & Zn 2A w/ 3000 gals Resisol II & 300 gal 70Q HCl. Swb 24 BW/ 1.5 hrs. RIH w/ PE. TOTP.

Additional Data:

T/Queen Formation @ 3360'
T/Penrose Formation @ 3510'
T/Grayburg Zone 1 @ 3688'
T/Grayburg Zone 2 @ 3739'
T/Grayburg Zone 2A @ 3813'
T/Grayburg Zone 3 @ 3842'
T/Grayburg Zone 4 @ 3898'
KB @ 3566'

FILE: EMSU584WB.xls
DKTS: 7/13/98

PBTD @ 3948'
TD @ 3950'

12/11/2002

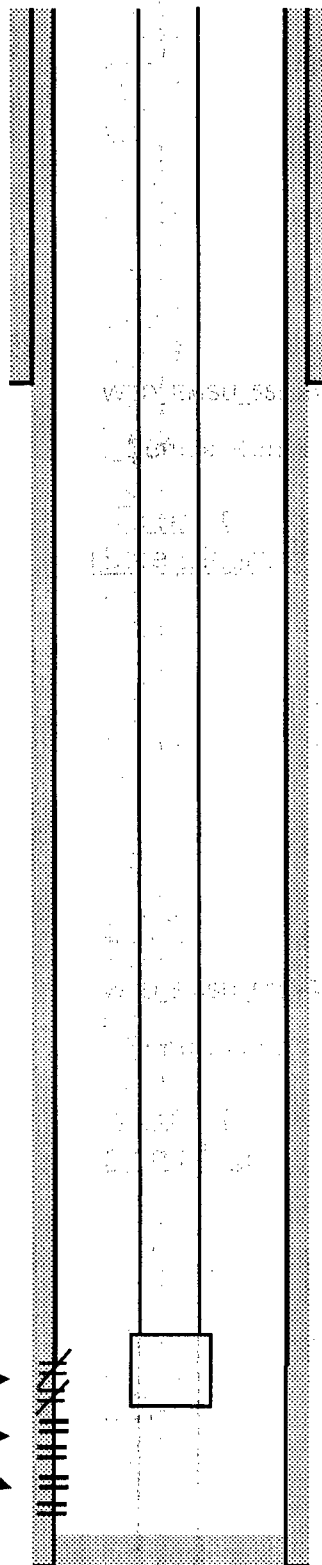
Well: **EMSU 585****Eunice Monument South**

Reservoir:

Location:	1120' FNL
	1300' FWL
Section:	5
Block:	21S
Survey:	36E
County:	LEA, NM

Elevations:	
GL:	3554'
DF:	
KB:	3560'

Current Wellbore Diagram



Well ID Info:	
Refno:	
API No:	30-025-35157
L5/L6:	
Spud Date:	12/22/2000
Compl. Date:	1/1/2001

Surf. Csg: 9 5/8"
36#
K-55
Set: @ 500'
With: 375 SXS
Hole Size: 12 1/4"
Circ: YES
TOC @ SURF

Perfs:	Status
3710'-12'	SQZ'D
3723'-27'	SQZ'D
3763'-72'	ACTIVE
3816'-27'	"
3861'-70'	"
3890'-3906'	"
3932'-46'	"
3952'-60'	"

Tbg Detail:

KB	6.00
120 JTS 2 7/8" TBG	3726.43
2 7/8" TBG SUB	4.90
TD 850 SUB PUMP	46.28
(139 Stage Pump-60 HP Motor)	3783.61

Prod. Csg: 7"
20#
K-55
Set @ 3,980'
With: 850 SXS
Hole Size: 8 3/4"
Circ: YES
TOC @ SURF

COTD: 3,970'
PBTD: 3,970'
TD: 3,980'

SQZ'D PERFS 3710'-12' & 3723'-27' →

PERFS: 3763' - 3960' →

Updated: 25-Apr-01
By: J. M. LOVELL

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 596	FIELD: Eunice-Monument	API: 30-025-34846
LOC: 2868 FNL & 335 FWL, Unit	SEC: 5	BLK: T21S, R36E	REF NO: BY5272
SVY: N.M.P.M.	GL: 3575	CTY/ST: Lea / NM	SPUD: 3/26/2000
CURRENT STATUS: Prod	KB: 3581	DF: 3580	TD DATE: 4/8/2000

9-5/8", 36# Csg K-55
set @ 510' w/35%/65% POZ
w/35%/65% POZ 300 sx
150 sx cl "C" cmt.
Cmt Circ? Yes (140 SX)
TOC @ surf. by circ.
(12-1/4" hole)

Tubing Detail: 6/21/2000

125 Jts. 2-7/8" 6.5# J-55 tbg
ESP TD1200 sub pmp 3958'

Rod Detail:

N/A

Date Completed: 6-21-2000

Initial Prod: P 14 BOPD/ 1055 BWPD/ 41 MCFPD

Initial Formation: Grayburg From: 3791 To: 4030

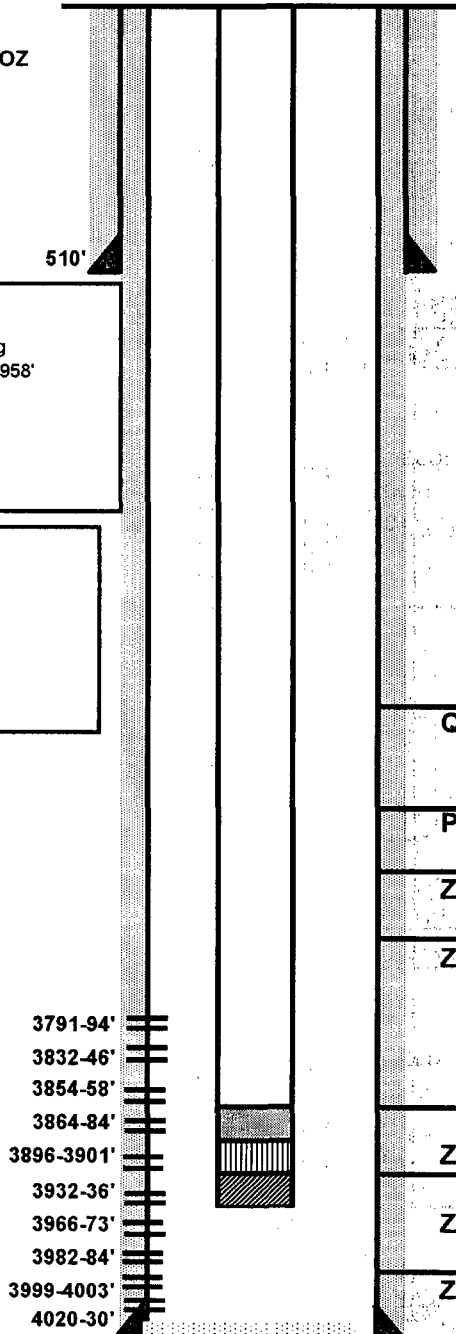
Completion Data:

6-8-2000 DO plug & FC @ 4007'-9'. Tag cmt @ 4028'. DO cmt f/4028-40'. Pickle tbg w/ 1000 gals 15% HCl. Run SBT/CBL/GR/CCL f/ 4039-3000. Good to fair bond to 3380'. Very good bond to 3000'. Perf w/ 3 SPF @ 120 deg phs'g, 4020-30'. Set pkr @ 4037', spot 200 gals 15% NEFE HCL across perms. Acdz perms w/1000 gals 15% NEFE HCl. Flush to btm perf w/ 1% KCl FW. Swab 5 runs in 1 hr. Rec'd 21 bbls w/ 20% oil cut. SFL - 2400', EFL- 3900'. Perf w/ 4" csg guns w/3 JHPF 120 deg phs'g 3791-94', 3832-46', 3854-58', 3864-84', 3896-3901', 3932-36', 3966-73', 3982-84', & 3999-4003'. Set RBP @ 4006'. Spot 500 gals 15% NEFE HCl across perms. Set pkr @ 3721'. Acdz perms (3791-4003) w/ 3000 gals 15% NEFE HCl dropping 275 - 1.1 RCNBS evenly thru job. Flush to btm perf w/ 1% KCl FW. Pmp 1000 gals 50Q 1% KCl FW. Acdz perms (3791-4003) w/ 4500 gals 15% NEFE HCl foamed 50Q w/ CO2, dropped 160 - 1.1 RCNBS evenly thru last 3000 gals, over displace 10 bbls w/ 1% KCl FW. Swab. TOH w/ pkr & RBP. TIH w/ TD1200 sub pmp, 125 jts 2-7/8" 6.5# J-55 tbg. Top pmp @3926', intake @ 3926', btm pmp@ 3958'.

Workover History:

Additional Data:

T/Rustler @ 1102'
T/Salado @ 1200'
T/Tansil @ 2502'
T/Yates @ 2764'
T/Seven Rivers @ 2990'
T/Queen @ 3381
T/Penrose @ 3532'
T/Grayburg Zone 1 @ 3718'
T/Grayburg Zone 2 @ 3774'
T/Grayburg Zone 2A @ '
T/Grayburg Zone 3 @ 3860'
T/Grayburg Zone 4 @ 3911'
T/Grayburg Zone 5 @ 3986'



7", 20#, K-55, STC csg

Z4 set @ 4065' w/ 1025 SX cl "C" cmt
Cmt. Circ? 130 SX

Z5 TOC @ surf. by circ. (2ND)
(8-3/4" hole)

FC @4012.83'

FILE: EMSU596WB.xls
DLMc: 9/28/2000

PBD @ 4040'
TD @ 4065'

12/11/2002

Well: EMSU #597

EUMONT SOUTH UNIT

Reservoir:

Location:	2490' FNL
	1190' FWL
Section:	5
Township:	21S
Range:	36E
County:	LEA, NM

Elevations:	
GL:	3571'
DF:	
KB:	3577'

Current Wellbore Diagram

Well ID Info:	
Refno:	
API No:	30-025-35158
L5/L6:	
Spud Date:	12/14/2000
Compl. Date:	11/21/2000

Surf. Csg: 9 5/8"
36#
K-55
Set: @ 530'
With: 350 sxs
Hole Size: 12 1/4"
Circ: yes
TOC @ surf

Perfs:	Status
3764'-70'	ACTIVE
3776'-80'	"
3822'-28'	"
3836'-66'	"
3914'-22'	"
3942'-44'	"
3959'-63'	"
3984'-98'	"

Tbg Detail:

KB	6.00
120 JTS 2 7/8" TBG	3734.29
2 7/8" TBG SUB	4.00
2 7/8" X 2 3/8" XO	.90
ESP TD SUB PUMP	45.12
(75HP motor 139 stage pump)	<u>3790.31</u>

Prod. Csg: 7"
20#
K-55
Set @ 4,050 '
With: 800 sxs
Hole Size: 8 3/4"
Circ: yes
TOC @ surf

COTD: 4,025'
PBTD: 4,025'
TD: 4,050'

TD 850 SUB PUMP

PERFS: 3764' - 3998'

Updated: 28-Dec-00
By: JAMES LOVELL

Well: **EMSU 612****Eunice Monument South**

Reservoir:

Location:	3948' FSL
	2460' FWL
Section:	5
Township:	21S
Range:	36E
County:	LEA, NM

Elevations:	
GL:	3586'
DF:	3594'
KB:	3595'

Current
Wellbore Diagram

Well ID Info:	
Refno:	
API No:	30-025-35159
L5/L6:	
Spud Date:	
Compl. Date:	12/22/2000

Surf. Csg: 9 5/8"
36#
K-55
Set: @ 1008'
With: 525 SX
Hole Size: 12 1/4"
Circ: YES
TOC @ SURF

Perfs:	Status
3761-80	ACTIVE
3816-3819	"
3830-56	"
3938-42	"
3964-88	"

acidized 6500 gals

KB	6'
118 JTS 2 7/8" TBG	3684'
2 T/8" SUB	4.1
27/8"X2-3/8" XO	0.6
ESP	49.6

EOT	3744
-----	------

Prod. Csg: 7"
20#
K-55
Set @ 4,025 '
With: 885 SX
Hole Size: 8 3/4"
Circ: YES
TOC @ SURF

COTD:
PBTD: 3,995 '
TD: 4,025 '

Updated:
By:

ESP

PERFS: 3761' - 3986'

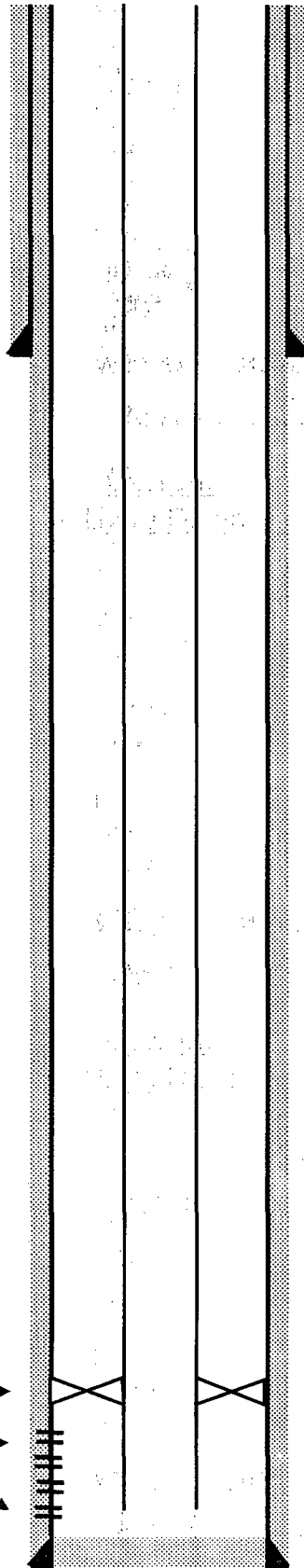
Well: **EMSU 613****Eunice Monument South**

Reservoir:

Location:	3850' FSL
	1260' FWL
Section:	5
Township:	21S
Range:	36E
County:	LEA, NM

Elevations:	
GL:	3590'
DF:	
KB:	3596'

Current Wellbore Diagram



Well ID Info:	
Refno:	
API No:	30-025-35161
L5/L6:	
Spud Date:	12/6/2000
Compl. Date:	

Surf. Csg: 9 5/8"
36#
K-55
Set: @ 500'
With: 350 SXS
Hole Size: 12 1/4"
Circ: YES
TOC @ SURF

Perfs:	Status
3794'-3804'	ACTIVE
3818'-30'	"
3842'-66'	"
3874'-80'	"
3886'-90'	"
3906'-24'	"
3934'-38'	"
4004'-09'	"
4020'-26'	"

Tbg Detail:

KB	6.00
119 JTS 2 7/8" TBG	3720.50
TAC	2.35
8 JTS 2 7/8" TBG	250.16
1 JTS IPC	31.96
SEAT NIPPLE	1.10
SLOTTED MAJT	15.00
EOT	4027.07

Rod Detail:

1 1/2" X 26' PR	26
8' X 7/8" ROD SUB	8
148 - 7/8" D-90 RODS	3700
10 - 1 1/2" WT BARS	250
2 1/2"X2"X24' PUMP	24
SN	4008

Prod. Csg: 7"
20#
K-55
Set @ 4073'
With: 850 SXS
Hole Size: 8 3/4"
Circ: YES
TOC @ SURF

COTD: 4,050'
PBTD: 4,050'
TD: 4,073'

Updated: 10-Jan-01
By: J. M. LOVELL

TAC @ 3726' →

PERFS: 3794' - 4026' →

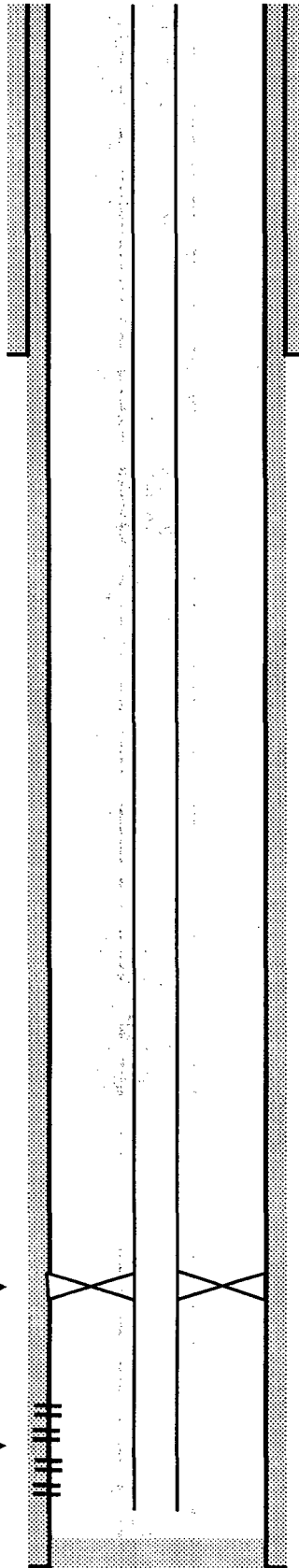
Well: **EMSU 614****Eunice Monument South**

Reservoir:

Location:	3655' FNL
	85' FEL
Section:	6
Block:	21S
Survey:	36E
County:	LEA, NM

Elevations:	
GL:	3685'
DF:	3595'
KB:	3596'

**Current
Wellbore Diagram**



Well ID Info:	
Refno:	
API No:	30-025-35453
L5/L6:	
Spud Date:	4/28/2001
Compl. Date:	5/30/2001

Surf. Csg: 9 5/8"
36#
K-55
Set: @ 502'
With: 350 SXS
Hole Size: 12 1/4"
Circ: YES
TOC @ SURF

Perfs:	Status
3840' - 72'	ACTIVE
3883' - 89'	"
3900' - 18'	"
3926' - 40'	"

Tbg Detail:

KB	11.00
109 JTS 2 7/8"	3406.78
7" TAC	2.32
XO	.75
17 JTS 3 1/2"	518.61
XO	.75
2 1/4" X 24' TBG PUMP	29.23
2 7/8" SLOTTED MAJT	15.77
EOT	3985.21

ROD DETAIL:

1 1/2" X 26' POLISH ROD	26
8'-6" ROD SUBS	14
137 - 7/8" NORRIS 97 RODS	3425
20 - 1 1/2" WT BARS	500
2 1/4" PLUNGER	4
	3969

TAC @ 3417' →

PERFS: 3840' - 3940' →

Prod. Csg: 7"
20#
K-55
Set @ 4048'
With: 1100 SXS
Hole Size: 8 3/4"
Circ: YES
TOC @ SURF

COTD: 4,020'
PBTD: 4,020'
TD: 4,048'

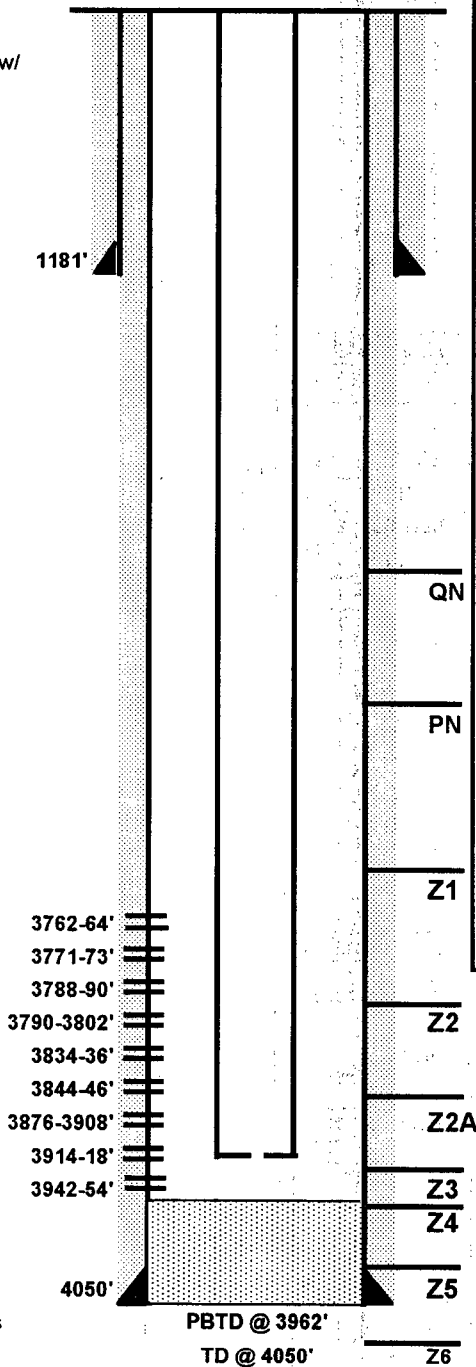
Updated: 22-May-01
By: J. M. LOVELL

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 620	FIELD: Eunice-Monument	API: 30-025-30511
LOC: 1330 FEL & 2360 FSL, Unit R	SEC: 6	BLK: T21S, R36E	REF NO: IP4397:01
SVY: N.M.P.M.	GL: 3569	CTY/ST: Lea Co., NM	SPUD: 12/3/1988
CURRENT STATUS: Producer	KB: 3582	DF:	TD DATE:

8-5/8", 24#/ft M-50
Surf. Pipe set @ 1181' w/
800 SX cement
TOC @ surf. by circ.
(12-1/4" hole)

5.5", 15.5#/ft K-55 Csg.
set @ 4050' w/ 800 SX
TOC @ surf. by circ.
(7-7/8" hole)



Date Completed: 1-31-89
Initial Prod: 75 BOPD/ 31 BWPD/ GOR 680
Initial Formation: Grayburg From: 3762' To: 3846'
Completion Data:
Perf 3762-64, 3771-73, 3788-90, 3800-02, 3826-28, 3834-36 & 3844-46 (2 JHPF). ACDZ perms w/ 750 gal 15% NeFeA & 56 RCNBs. ACDZ each set of perms w/ 50 gal 15% NeFeA per ft. Put on pump test- 7 BO/ 4 BW/ TSTM gas. Perf 3790-3800, 3823-26, 3876-3908, 3914-18, 3942-54 w/ 2 JHPF. ACDZ ea set of perms w/ 50 gal 15% NeFeA per ft & RCNBs. Swb 1 BO/ 24 BW for 1.5 hrs. all perms.

Workover History:
2/92 ACDZ Zn 2 thru Zn 4 w/ 3000 gal 28% NeFeA & 30 Tons CO2 - test: 48 BO/ 110 BW/ 48 MCF. FL=SN.

Additional Data:
T/Queen Formation @ 3401'
T/Penrose Formation @ 3554'
T/Grayburg Zone 1 @ 3743'
T/Grayburg Zone 2 @ 3805'
T/Grayburg Zone 2A @ 3869'
T/Grayburg Zone 3 @ 3921'
T/Grayburg Zone 4 @ 3965'
T/Grayburg Zone 5 @ 4038'
T/Grayburg Zone 6 @ 4105'
T/San Andres Formation @ 4134'
KB @ 3582'

FILE: EMSU620WB.xls
DKTS: 11/3/98

12/11/2002

CURRENT WELLBORE DIAGRAM

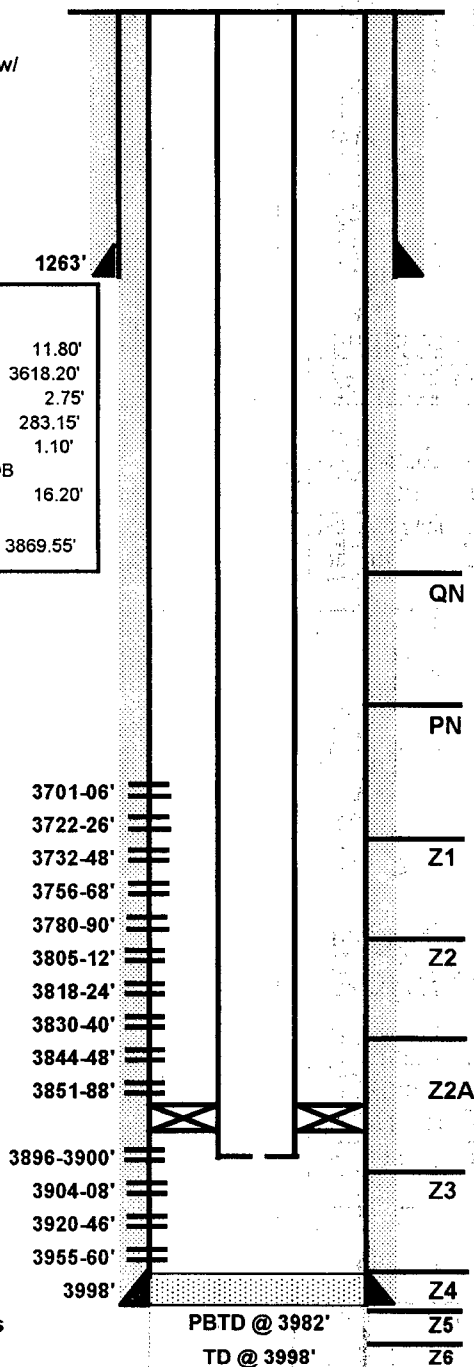
LEASE: EMSU	WELL: 621	FIELD: Eunice-Monument	API: 30-025-33186
LOC: 185 FEL & 2800 FSL, Unit P	SEC: 6	BLK: T21S, R36E	REF NO: BD6709:01
SVY: N.M.P.M.	GL: 3583	CTY/ST: Lea Co., NM	SPUD: 12/19/1996
CURRENT STATUS: Producer	KB: 3595	DF: 3594	TD DATE:

8-5/8", 23#/ft M-50
Surf. Pipe set @ 1187' w/
600 SX cement
TOC @ surf. by circ.
(12-1/4" hole)

Tubing Detail: 5/3/96

KBTH:	11.80'
115 Jts. 2-7/8" 6.5# J-55:	3618.20'
1 5-1/2 X 2-7/8 TAC	2.75'
9 2-7/8" Ditto Tbg	283.15'
2-7/8" API SN	1.10'
1 2-7/8" Slotted MAJ OPOB	16.20'
Landed @	3869.55'

5.5", 15.5#/ft K-55 Csg.
set @ 3998' w/ 900 SX
TOC @ surf. by circ.
(7-7/8" hole)



Date Completed: 1-2-96

Initial Prod: 17 BOPD/ 120 BWPD/ 17 MCFGPD

Initial Formation: Grayburg From: To:

Completion Data:

Drill out cmt to 3892' (PBTB). Perf 3896-3900, 3904-08 & 3920-46 (3 JHPF). Pickle tbg. 500 gal 15% HCl. Breakdown & ACDZ perms w/ 3000 gal 15% HCl w/ iron control. 105 RCNBs & 1050# salt. ISIP=826 psi. Swb 21 BW, EFL=2900'. Swb 20 BBL, 1% OC. EFL=3200'. TOTP. Test 1/25/96 = 8 BO/ 58 BW/ 9 MCFG. FL = 122'.

Workover History:

2/96 Perf w/ 3 JHPF @ 3818-24, 3830-40, 3844-48 & 3851-88 (Zn 2&2A), set RBP @ 3892'. ACDZ 3818-3888 w/ 4000 gals 15% HCl w/ BJ's ferretrol system in 9 stages. Swb - 11 runs. IFL=1800', EFL=3300'. Rec'd 32 BW. RIH w/ prod tbg.
4/96 Perf 3701-06, 3722-26, 3732-48, 3756-68, 3780-90, 3805-12 & 3955-60' (3 JHPF). ACDZ 3701-3960 w/ 8500 gals 15% USA-B HCl in 14 stages. Swb - 6 runs, IFL=1800', EFL=3200'. Rec'd 35 BW. Selectively swb, RIH w/ PE. TOP.

Additional Data:

T/Queen Formation @ 3397'
T/Penrose Formation @ 3550'
T/Grayburg Zone 1 @ 3742'
T/Grayburg Zone 2 @ 3798'
T/Grayburg Zone 2A @ 3848'
T/Grayburg Zone 3 @ 3909'
T/Grayburg Zone 4 @ 3973'
T/Grayburg Zone 5 @ 4048'
T/Grayburg Zone 6 @ 4096'
T/San Andres Formation @ 4142'
KB @ 3583'

Tubing Detail: 5/3/96

1 4', 6' & 8' 7/8 Sub
62 7/8" T-90 Rods
92 3/4" T-90 Rods
2-1/2 X 2 X 20' Pmp

FILE: EMSU625WB.xls
DKTS: 11/3/98

12/11/2002

Well: EMSU 622

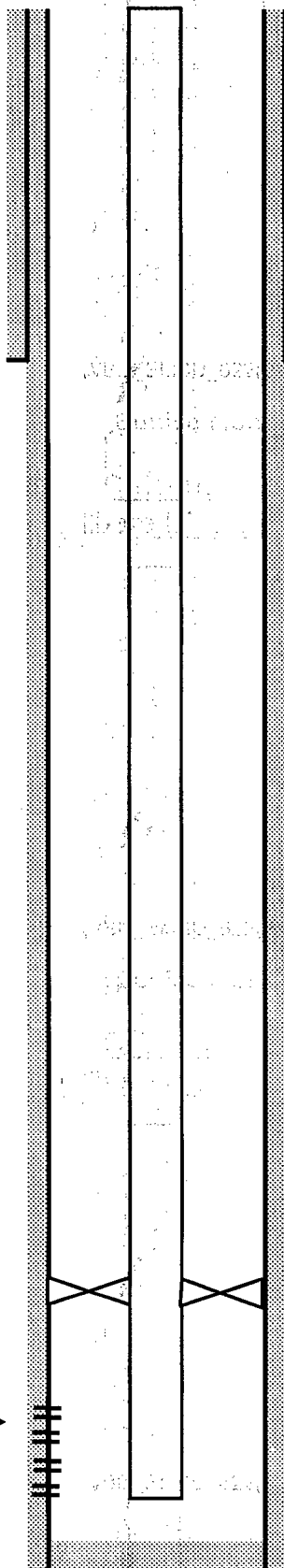
Eunice Monument South

Reservoir:

Location:	2625' FSL
	1450' FWL
Section:	5
Block:	21S
Survey:	36E
County:	LEA, NM

Elevations:	
GL:	3597'
DF:	
KB:	3590'

Current Wellbore Diagram



Well ID Info:	
Refno:	
API No:	30-025-35454
L5/L6:	
Spud Date:	5/10/2001
Compl. Date:	6/7/2001

Surf. Csg: 9 5/8"
K-55
36#
Set: @ 518'
With: 350 SXS
Hole Size: 12 1/4"
Circ: YES
TOC @ SURF

Perfs:	Status
3896' - 3906'	ACTIVE
3914' - 20'	"
3930' - 49'	"
3957' - 68'	"
3978' - 81'	"
4007' - 11'	"
4036' - 39'	"
4078' - 90'	"
NEW PERFS	
3810-16	"
3860-70	"
3876-86	"

Tbg Detail:

KB	11.00
114 JTS 2 7/8" TBG	3515.66
TAC	2.50
XO	.75
17 JTS 3 1/2" TBG	514.10
XO	.75
2.5"X2.25"X24' TBG PUMP	29.16
2 7/8" SLOTTED MAJT	15.76
EOT	4089.68

114 7/8 N-97 RODS
20 1 1/4 K-BARS
2 1/4 PLGR

Prod. Csg: 7"
20#
K-55
Set @ 4120'
With: 1200 SXS
Hole Size: 8 3/4"
Circ: YES
TOC @ SURF

COTD: 4,110'
PBTD: 4,110'
TD: 4,120'

Updated: 9-Nov-01
By: DL LOVELL

WELL DATA SHEET

FIELD: EMSU

WELL NAME: EMSU 642

FORMATION: Grayburg

LOC: 1370' FSL & 25' FEL
TOWNSHIP: 21S
RANGE: 36E Unit O

SEC: 6
COUNTY: Lea
STATE: NM

GL: 3578'
KB: 3589'
DF to GL:

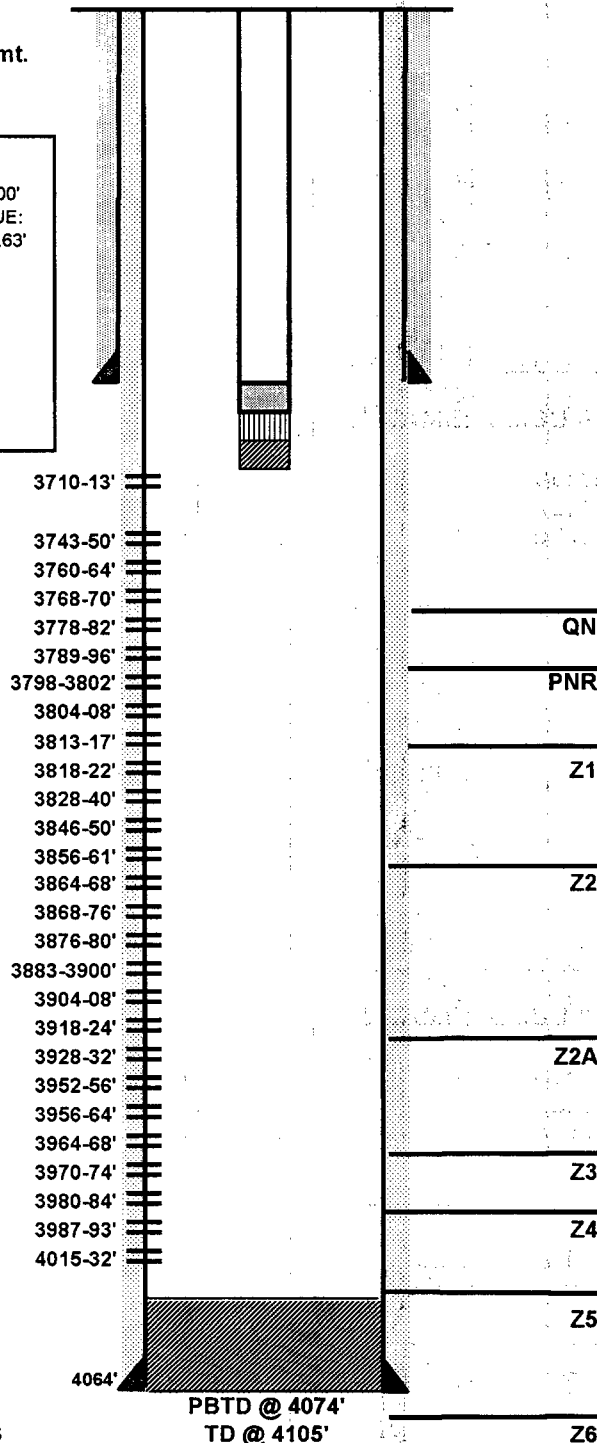
CURRENT STATUS: Producer
API NO: 30-025-30958
CHEVNO: KU95340:01

8-5/8", 32#/ft, Surf. Pipe
set @ 1206' w/ 800 SX cmt.
Cmt Circ.? Yes
TOC @ Surf' by circ.

Tubing Detail:

KBTH: 0.00'
117 Jts. 2-7/8" 6.5# J-55 8rd EUE:
3658.63'

1 Sub Pump intake 3692'
bottom 3734'



Date Completed: 11-26-90

Initial Prod: 23 BOPD/ 107 BWPD/ GOR 2522

Initial Formation: Grayburg From: 3760' To: 3984'

Completion Data:

Perf 3952-56, 3964-68, 3980-84 (2 JHPF). ACDZ w/ 1200 gal 15% NeFeA. Swb 12 BO/37 BW FeR 1.7 BPH. Perf 3760-64, 3778-82, 3798-3802, 3813-17, 3846-50, 3864-68, 3876-80, 3904-08, 3928-32 (2 JHPF). ACDZ all perfs using PPI tool w/ 150 gal per set. ACDZ perfs 3760-3932 w/ 1250 gal 15% NeFeA & 88 RCNBs. Put on prod.

Workover History:

11/90 Chemical squeeze.

2/91 Chemical squeeze.

7/93 Perf 3710-13, 3743-50, 3789-96, 3804-08, 3818-22, 3828-40, 3856-61, 3868-76 & 3883-3900. D/O fill, scale & cmt to 4070'. Tag PBTD @ 4074'. Perf 3768-70, 3918-24, 3956-64, 3970-74, 3987-93, 4015-32. ACDZ all perfs w/ 250 bbls 15% NeFe HCl w/ 14750 # salt. Swb IFL 2100', FFL 2900'. Trace of oil. EFR 10 BPH. SWIFN. Swb IFL 2700' FFL 2900'. Rec 19 BBL. 1st Run: 5% - final OC 0%. SN @ 4022'. TST: B - 19 BO/ 76 BW/ 10 MCF. A - 101 BO/ 1323 BW/ 32 MCF.

11/95 Tag @ 4071'. Pickle tbg. ACDZ w/ 6250 gals Viscosified Mutual Solvent & acid. RIH w/ PE. Test A - 25 BO/ 678 BW/ 6 MCF. B - 12 BO/ 445 BW/ 3 MCF.

4/30/97 Stimulate w/ 6000 gals Resisol II.

7/2000 C/O and acidize 5000 gals foamed acid

Additional Data:

T/Queen Formation @ 3400'

T/Penrose Formation @ 3546'

T/Grayburg Zone 1 @ 3737'

T/Grayburg Zone 2 @ 3784'

T/Grayburg Zone 2A @ 3847'

T/Grayburg Zone 3 @ 3940'

T/Grayburg Zone 4 @ 3995'

T/Grayburg Zone 5 @ 4071'

T/Grayburg Zone 6 @ 4143'

T/San Andres Formation @ 4200'

KB @ 3589'

5-1/2", 15.5#/ft, csg set @

4105' w/ 840 SX cmt.

Cmt Circ.? Yes

TOC @ 720' by TS

FILE: EMSU642WB.XLS

RLM: 8/24/98

WELL DATA SHEET

FIELD: EMSU

WELL NAME: EMSU 643

FORMATION: Grayburg

LOC: 1275' FSL & 1275' FEL
TOWNSHIP: 21S
RANGE: 36E Unit B

SEC: 6
COUNTY: Lea
STATE: NM

GL: 3577' (DF)
KB: 3590'
DF:

CURRENT STATUS: Producer
API NO: 30-025-30512
CHEVNO: IQ5854:01

8-5/8", 24#/ft, Surf. Pipe
set @ 1224' w/ 800 SX
CMT. TOC @ Surf' by circ.
Cmt. Circ.? Yes

5-1/2", 15.5#/ft, csg set @
4050' w/ 800 sxs cmt.
TOC @ Surf. by calc.
Cmt. Circ.? Yes

Date Completed: 6-89

Initial Production: 4 BOPD / 104 BWPD / GOR 15,000

Initial Formation: Grayburg From: 3848' To: 4020'

Completion Data:

Perf 4002-06 & 4010-20 w/ 2 JHPF. Trid w/ 400 gal 15% NeFeA. Swb 0 BO/24 BW 1 hr., 6 hr. swb 2 BO/23 BW, FFER = 1.1 BPH. Perf 3898-3902, 3906-40, 3944-48, 3988-82 w/ 2 JHPF. ACDZ 3898-3948 w/ 3150 gal 15% NeFeA & 224 RCNBs. Swb 1st perf 3898-3902, rec 5 BO/ 128 BW FER 18 BPH. Put on pump. Test 5 BO/ 82 BW/ 51 MCFPD. REACDZ - perf 4002-22, 3968-82 in comm. w/ upper perms. Ran temp. & tracer survey. Indicated channel fr bottom. SQZ 3990-4020 w/ 50 SX. D/O cmt. ACDZ all open perms w/ 3250 gal 15% NeFeA in 4 stages using GRS block. Test 3 BO/ 83 BW/ 51 MCFPD.

Workover History:

5/89 Set RBP @ 3985', pkr @ 3954'. Swb z4 (3968-82), rec 105 BW, 5 runs EFL 3900'. Swb 9 BW 5 runs. EFL=3900'. Set RBP 3954', pkr @ 3879'. Swb z3 (3898-3948) 5 BW, 3 runs. EFL=3800'. FER=3 BPH. Set RBP @ 3985', pkr @ 3954'. Pmp 100 BBL red dye wtr in ann. Swb z4, rec 10 BBL red water. Ran prod. tubing.

6/89 PB w/ sd to 3990'. Set CIBC @ 3848'. SQZD z3 (3898-3948) w/ 200 SX. CO, D/O to 4040'. Perf 3848-52, 3854-56, 3860-64, 3870-72, 3881-85, 3898-3902, 3906-26, 3968-82, 4002-06 & 4010-22 (2 JHPF). Selectively ACDZ perms 3898-4022 w/ 1550 gal 15% NeFeA, swb - Fe=0. ReACDZ w/ 1600 gal gelled 15% NeA & RCNBs. Swb 39 BW FeR = 8 BPH. Swb 9 BW. EFL=3600' FeR = 0. ACDZ 3845-85 w/ 1200 gal 15% NeFeA & RCNBs. Swb 35 BW, EFL=3500, swb 28 BW 4 hrs. EFL=3600'. Put on prod. Test 4 BO/104 BW/ 60 MCFPD FL=0. Chemical squeeze on 7/89 and on 3/90.

4/91 Perf 3778-86, 3822-26, 3834-38 w/ 2 JHPF. ACDZ new perms w/ 1500 gal 15% NeFeA. Final swb 5 BBL in 3 runs. IFC=15% oil FFC=Tr oil. Ret. to prod. Test 1 BO/ 136 BW/ 21 MCFPD. FL @ 3N.

12/92 Install larger pumping unit. Test 0 BO/225 BW/ 11 MCFPD, FL=0. SI w/o well study.

8/93 Perf 3697-3706, 3710-26, 3728-32, 3742-48, 3750-54, 3768-70, 3778-86, 3786-96, 3800-07, 3810-15 (2 JHPF). ACDZ w/ 4250 gal 15% NeFeA & 426 RCNBs. Swb 64 BW & 77 BW; test 15 BO/ 697 BW/ 36 MCFPD. B14 = SI.

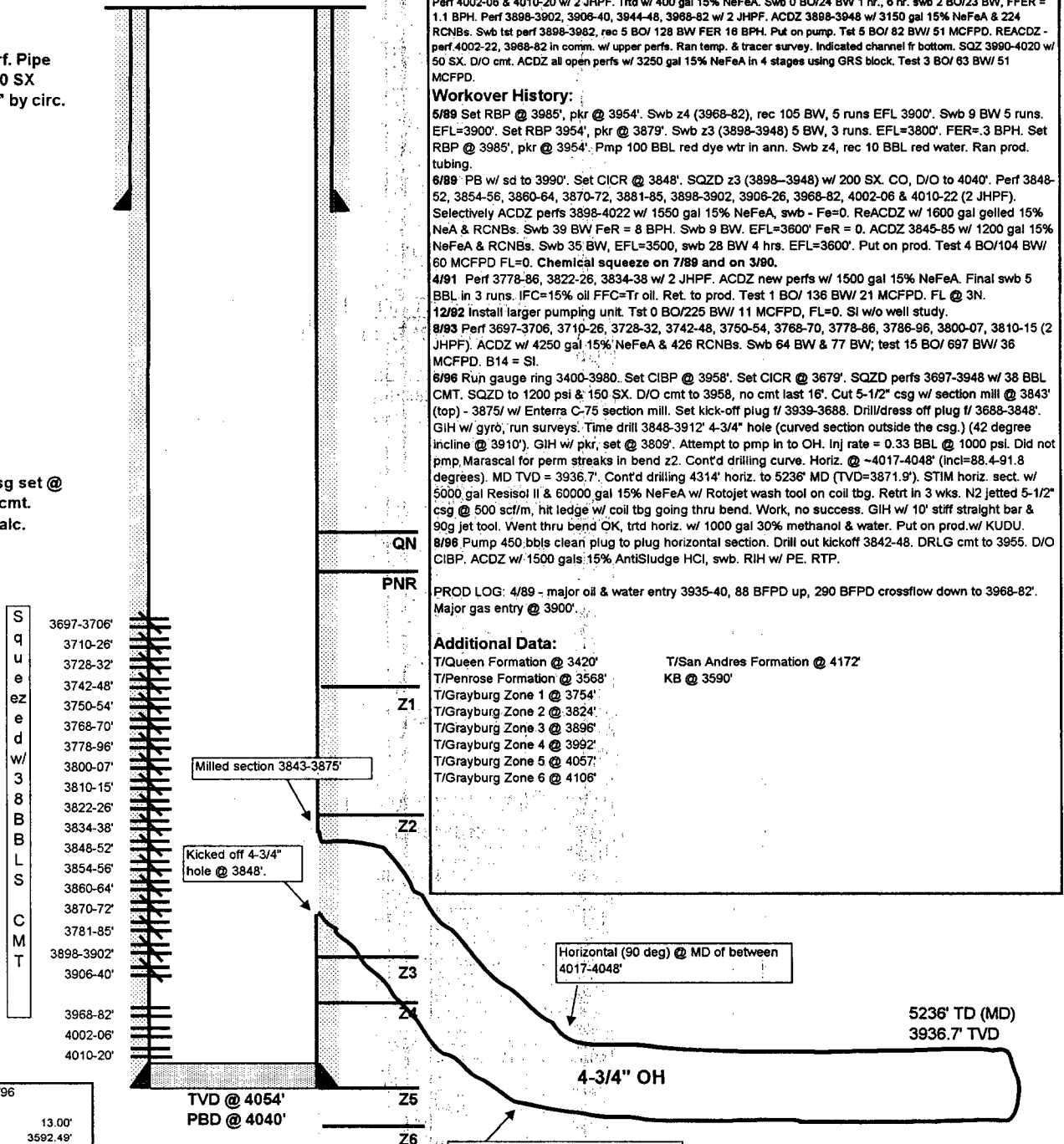
6/96 Run gauge ring 3400-3980. Set CIBC @ 3958'. Set CIBC @ 3679'. SQZD perms 3697-3948 w/ 38 BBL CMT. SQZD to 1200 psi & 150 SX. D/O cmt to 3958, no cmt last 16'. Cut 5-1/2" csg w/ section mill @ 3843' (top) - 3875' w/ Enterra C-75 section mill. Set kick-off plug f/ 3939-3688. Drill/dress off plug f/ 3688-3848'. GIH w/ gyrö, run surveys. Time drill 3848-3912' 4-3/4" hole (curved section outside the csg.) (42 degree incline @ 3910'). GIH w/ pkr, set @ 3809'. Attempt to pmp in to OH. Inj rate = 0.33 BBL @ 1000 psi. Did not pmp. Marascal for perm streaks in bend z2. Cont'd drilling curve. Horiz. @ ~4017-4048' (incl=88.4-91.8 degrees). MD TVD = 3936.7'. Cont'd drilling 4314' horiz. to 5236' MD (TVD=3871.9'). STIM horiz. sect. w/ 5000 gal Resisol II & 60000 gal 15% NeFeA w/ Rotojet wash tool on coil tbg. Retrt in 3 wks. N2 jetted 5-1/2" csg @ 500 scf/m, hit ledge w/ coil tbg going thru bend. Work, no success. GIH w/ 10' stiff straight bar & 90g jet tool. Went thru bend OK, trtd horiz. w/ 1000 gal 30% methanol & water. Put on prod.w/ KUDU.

8/96 Pump 450 bbls clean plug to plug horizontal section. Drill out kickoff 3842-48. DRLG cmt to 3955. D/O CIBC. ACDZ w/ 1500 gals 15% AntiSludge HCl, swb. RIH w/ PE. RTP.

Additional Data:

T/Queen Formation @ 3420'
T/Penrose Formation @ 3568'
T/Grayburg Zone 1 @ 3754'
T/Grayburg Zone 2 @ 3824'
T/Grayburg Zone 3 @ 3896'
T/Grayburg Zone 4 @ 3992'
T/Grayburg Zone 5 @ 4057'
T/Grayburg Zone 6 @ 4106'

T/San Andres Formation @ 4172'
KB @ 3590'



Tubing Detail: 8/22/96

KBTH: 13.00'
118 Jts. 2-7/8" 6.5#: 3592.49'
2-7/8 SUB 4.10'
3-1/2 SUB 4.15'
4" SUB 6.16'
KUDU PUMP BARREL 30.13'
ANCHOR 4.65'
8 Jts. 2-3/8" Tbg 4.7# J-55 8RD Tbg 248.41'
2-3/8" SMAJ Op on Btm 18.02'

Landed @ 3919.11'

NOTE: Drilled Rathole in vertical hole to 3955'. when RIH, watch for top of csg. @ 3875'. May need to rotate f/ 3843-48 to get thru horizontal window.

Rod Detail: 8-22-96

1 1-1/2 X 26" Polish Rod
143 1" rods w/ 3 rod guides per rod
KUDU Pump

FILE: EMSU643WB.XLS
RLM: 8/24/98

EMSU643WB.xls

WELL DATA SHEET

FIELD: EMSU

WELL NAME: EMSU 649

FORMATION: Grayburg

LOC: 210' FSL & 40' FEL
TOWNSHIP: 21S
RANGE: 36E Unit X

SEC: 6
COUNTY: Lea
STATE: NM

GL: 3583'
KB: 3594.8'
DF to GL:

CURRENT STATUS: Producer
API NO: 30-025-33187
CHEVNO: BD6710

8-5/8", 24#/ft, Surf. Pipe
set @ 1190' w/ 675 SX cmt.
TOC @ Surf' by circ.
(12-1/4" hole)

Tubing Detail: 4/15/98

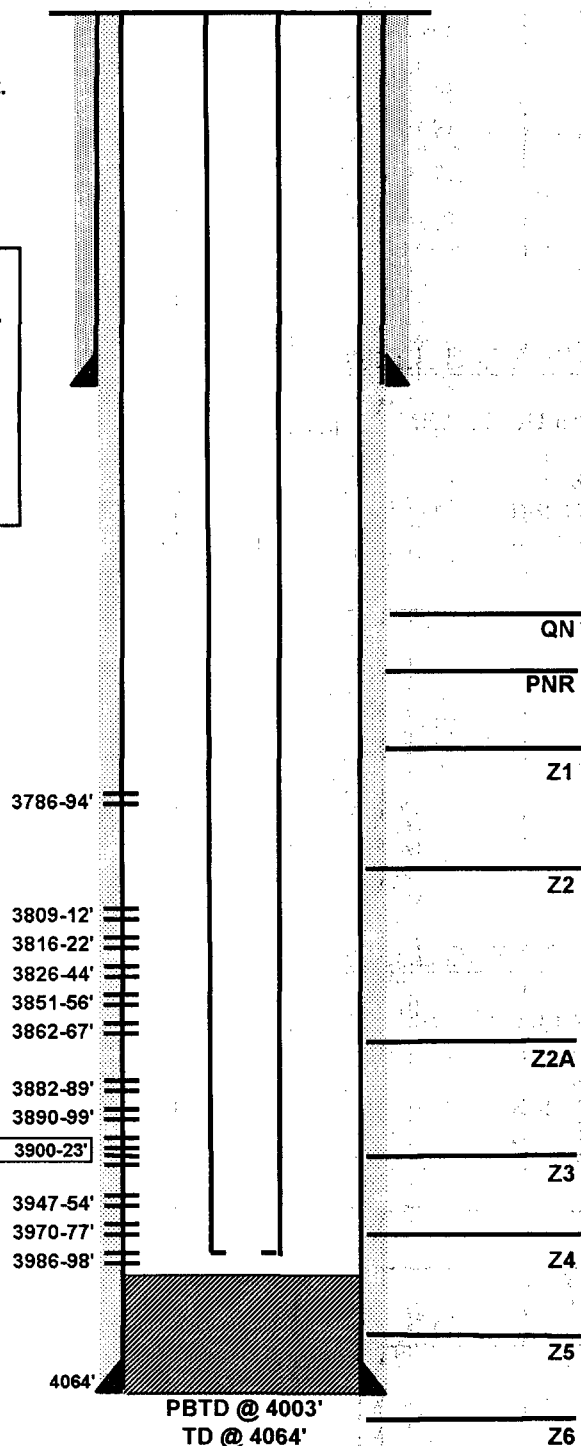
KBTH: 5.00'
118 Jts. 2-7/8" 6.5# J-55 : 3713.05'
5-1/2" X 2-7/8" TAC: 251.90'
8 Jts. 2-7/8" Tbg 6.5# J-55 8RD Tbg 25.05'
2.5 X 2-1/4" X 20' THBC 25.19'

Landed @ 3995.00'

5-1/2", 15.5#/ft, csg set @
4064' w/ 575 SX cmt.
Cmt Circ.? No
TOC @ 720' by TS
(8-3/4" hole)

Rod Detail: 4-15-98

1 1-1/2 X 22' Polish Rod
1-2', 6' & 8' 7/8 N-97
Rods
146 7/8 N-97 Rods
12 1-3/4 KBARS
2' X 3/4 SUB
2-1/4 Plunger
Standing Valve



Date Completed: 2-96

Initial Prod: 13 BOPD/ 55 BWPD/ 22 MCF

Initial Formation: Grayburg From: To:

Completion Data:

Perf 3882-89' and 3900-23' w/ 3 JHPF. Pickle tbg w/ 350 gals acid. Spot 100 gal acid, break down & acidz w/ 3000 gal 15% HCl w/ iron control additives.

Workover History:

2/96 Perf 3809-12, 3816-22, & 3826-44. RBP @ 3863'. Acidize perfs 3809 3844 w/ 3000 gals 15% HCl in 7 stages. RIH w/ PE. TOTP.

4/96 Retrieve and POH w/ RBP @ 3863'. DOC to 4040' and perf 3786-94, 3851-56, 3862-67, 3890-99, 3947-54, 3970-77, & 3986-98 (3 JHPF). ACDZ perfs w/ 8400 15% HCl in 15 stages. Swb (8 runs). IFL - 1800', EFL - 2800'. Rec'd 45 BW. RIH w/ PE, TOTP.

4/98 ACDZ 3786-3998 w/ 3000 15% REAXE-3000 and 2000 gals 15% S. 3000 w/ 3500# GRS as diverter.

Additional Data:

T/Queen Formation @ 3418'
T/Penrose Formation @ 3560'
T/Grayburg Zone 1 @ 3746'
T/Grayburg Zone 2 @ 3793'
T/Grayburg Zone 2A @ 3874'
T/Grayburg Zone 3 @ 3937'
T/Grayburg Zone 4 @ 3978'
T/Grayburg Zone 5 @ 4045'
T/Grayburg Zone 6 @ 4095'
T/San Andres Formation @ 4139'
KB @ 3594.8'

FILE: EMSU649WB.XLS
RLM: 8/24/98



WELL DATA SHEET

LEASE: EMSU WELL: 159
 LOC: 1980' F S L & 1980' F E L SEC: 31
 TOWNSHIP: 20S CNTY: Lea
 RANGE: 37E UNIT: J ST: N.M.
 (formerly: New Mexico Aggies "H" NCT-I #4)

FORM: Grayburg / San Andres DATE: _____
 GL: 3540' STATUS: Producer
 KB: 3540' API NO: 30-025-06310
 DF: _____ CHEVNO: FB 46790:01

Date Completed: 11/2/36
 Initial Production: F/456 BOPD
 Initial Formation: Grayburg
 FROM: 3762' to 3850' / GOR 361

Completion Data

ACDZ OH w/ 2000 gals acid.

Subsequent Workover or Reconditioning:

12/43 Acdz OH w/ 4000 gal 15%. Tst: 66 BO/3 BWPD. B/4: 38 BOPD
 9/63 SS OH. Acdz w/ 1000 gal 15%. Tst: 15 BO/ 17 BW/ 6 TSTM.
 6/73 Chem sqzd & ACDZ w/ 1000 gal. Tst: 8 BO/ 19 BWPD.
 11/85 XOWH. C/O to 3868'. Ran logs. Acdz OH w/ 3500 gal 15% NeFeA in 3 stages. Chem sqzd. Put on Prod. Test: 14 BO/ 40 BW/ Gas TSTM. B/4: 4 BO/ 13 BW.
 8/87 Chem sqzd OH
 9/87 Perf OH 3736-3839' w/ 2 JHPF. C/O to 3868'. Acdz OH w/ 3760 gal 15% NeFeA in 4 stages. Swab 45 BW. FeR - 8.2 BPM. Perf csg @ 3612-22, 3640-44, 3652-64, 3677-80, 3684-3700' w/1 JHPF. Acdz pers w/ 3300 gals 15% NeFeA & 70 RCNBs. Swab 15 BW & dry. Put on prod. Tst: 5 BO/ 130 BW/ 5 mcfg.
 2/94 Acdz perms & OH w/ 4000 gal 15%. Swab 53 BW. Tst: 14 BO/ 182 BW/ 1 MCFG. B/4: 9 BO/ 110 BW/ 2 mcfg. SN @ 3789. FL = 61' ASN.

Additional Data:

T/Queen @ 3290'
 T/Penrose @ 3435'
 T/Grayburg Zone 1 @ 3604'
 T/Grayburg Zone 2 @ 3648'
 T/Grayburg Zone 2A @ 3681'
 T/Grayburg Zone 3 @ 3713'
 T/Grayburg Zone 4 @ 3749'
 T/Grayburg Zone 5 @ 3809'
 T/Grayburg Zone 6 @ 3855'
 T/San Andres @ 3901'
 KB @ 3540'

13" OD
 40# CSG
 Set @ 250' W/ 250 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

9-5/8" OD
 40# CSG
 Set @ 1142' W/ 750 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

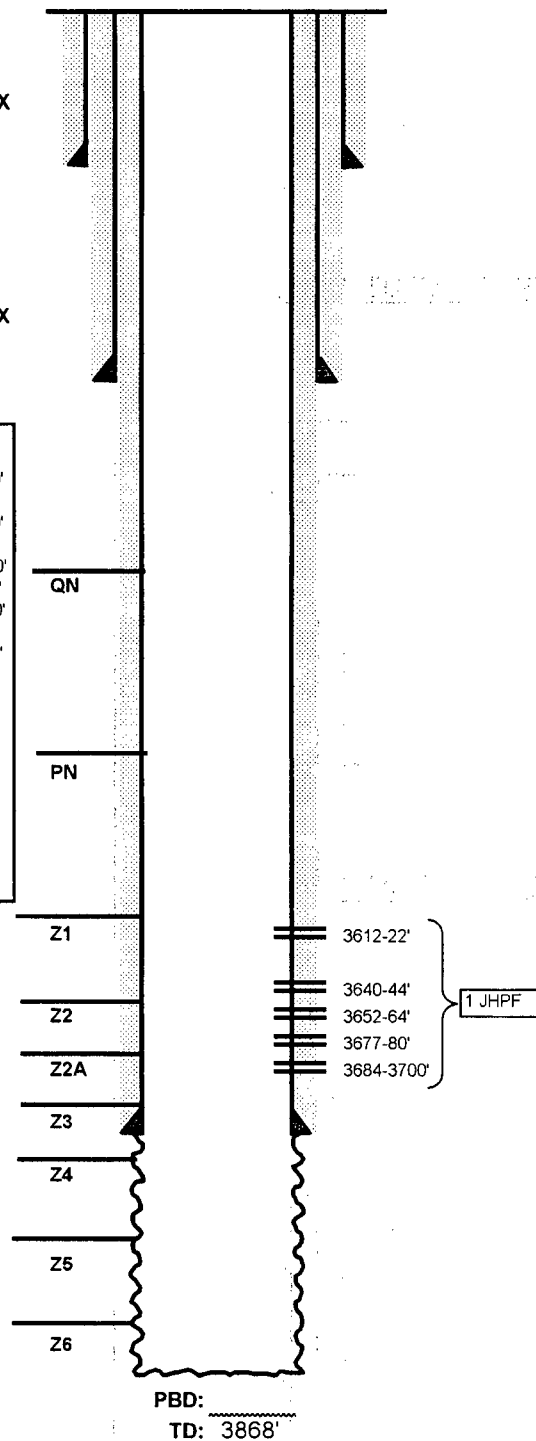
Tubing Detail: 2/7/94

Original KBTH: 10.00'
 124 Jts. 2-7/8" H-40 6.5# 10V thrd
 tbg: 3748.00'
 1 Jt. 2-7/8" 6.5# EUE 8rd tbg: 30.50'
 2-7/8" API SN: 1.10'
 2-7/8" Perf Sub: 4.00'
 2-7/8" MA jt.: 30.00'
 Landed @ 3823.60'

Rod Detail: 2/7/94

1-1/4" X 22' Polished Rod
 3/4" X 2' Pony Rod
 150 - 3/4" X 25' Grade K Rods
 3/4" X 2' Pony Rod
 2.5 X 1.50 X 20' Pump

7" OD 10rd
 24# CSG
 Set @ 3740' W/ 275 SX
 Cmt circ.? No
 TOC @ 2050' by calc.
 (8-3/4" hole)



FILE: EMSU159WB.XLS

PBD: _____
 TD: 3868'



WELL DATA SHEET

LEASE: EMSU WELL: 160WI
 LOC: 1980' F S L & 1980' F W L SEC: 31
 TOWNSHIP: 20S CNTY: Lea
 RANGE: 37E UNIT: K ST: N.M.
 (formerly: Aggies State #5)

FORM: Grayburg / San Andres DATE: _____
 GL: 3529' STATUS: Injector
 KB: 3529' API NO: 30-025-06300
 DF: _____ CHEVNO: FA 74180:01

Date Completed: 10/1/36
 Initial Production: F/264 BOPD
 Initial Formation: Grayburg
 FROM: 3740' to 3840' / GOR 4450

Completion Data

ACDZ OH w/ 2000 gals HCl. Flowed 12 BBLS/hr. ACDZ OH w/ 3000 gals. Oil gravity - 35.5 deg.

Subsequent Workover or Reconditioning:

3/44 Acdz OH w/ 1000 gals.
 5/63 Frac w/ 10,000 gal RRF Lse oil & 10,000 # sand.
 10/79 Acdz OH w/ 2000 gal acid
 5/85 C/O OH to 3840'. Test csg to 500# - OK.
 3/87 C/O to TD. Perf 3629-31, 3637-39, 3650-52, 3660-62, 3669-71, 3673-75, 3679-81, 3684-86. Acdz w/ 2500 gal 15% NeFeA. Ran 2-3/8" J55 4.7# IPC Tbg on 5-1/2" Baker TSN pkr. Set pkr @ 3606'. Inj: 711 BWIPD @ 0 psig.
 5/95 Acdz perfs 3629-3666' & OH 3740-3840' w/ 4000 gals 15% HCL in 7 stages.
 11/99 Acid 1500 gals with Vortech tool on CT
 3/2001 Fish packer Perf 1280' Sqz 305 sx circ 50 sx to surf. Drilled out casing would not hold. Spotted cement plug across hole - drilled out - not holding. Ran tubing to 3341 - operations suspended.

Additional Data:

T/Queen @ 3294'
 T/Penrose @ 3421'
 T/Grayburg Zone 1 @ 3590'
 T/Grayburg Zone 2 @ 3636'
 T/Grayburg Zone 2A @ 3667'
 T/Grayburg Zone 3 @ 3700'
 T/Grayburg Zone 4 @ 3749'
 T/Grayburg Zone 5 @ 3811'
 T/Grayburg Zone 6 @ 3858'
 T/San Andres @ 3916'
 KB @ 3529'

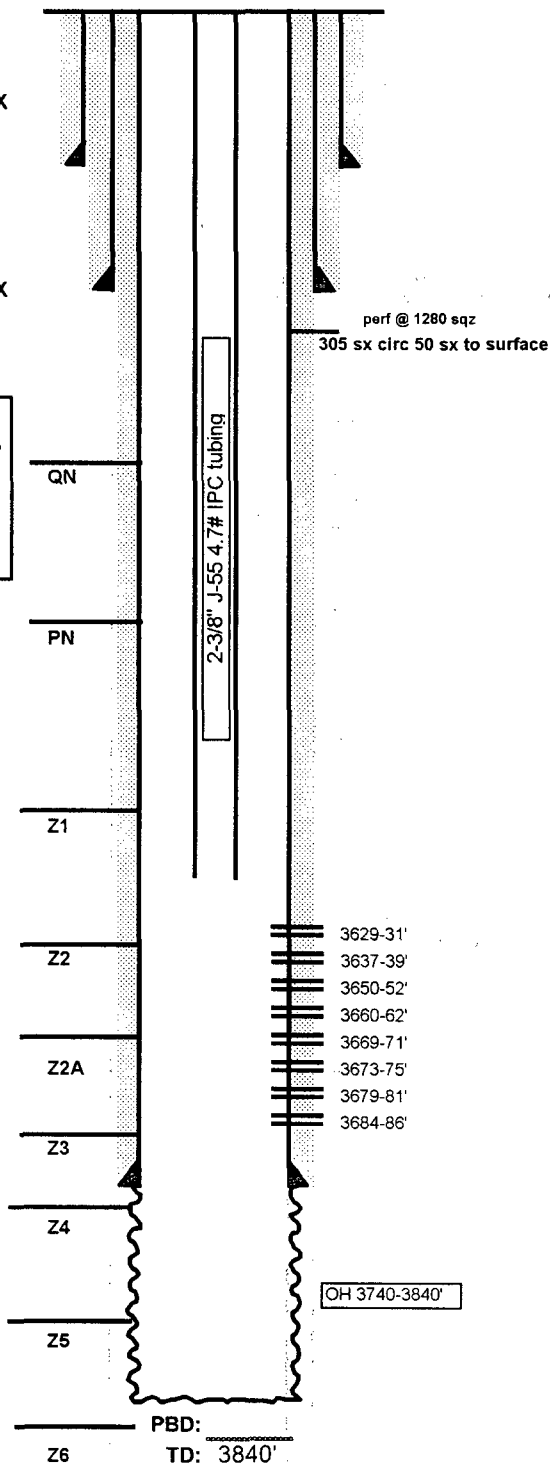
10-3/4" OD
 CSG
 Set @ 140' W/ 100 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

7-5/8" OD
 26.4# CSG 8rd
 Set @ 1184' W/ 400 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (12-1/4" hole)

Tubing Detail: 3/24/87

Original KBTH: 0.00'
 108 jts 2-3/8 tubing
 3341' open ended

5-1/2" OD
 17# CSG 10rd
 Set @ 3740' W/ 100 SX
 Cmt circ.? No
 TOC @ 2476' by calc.



FILE: EMSU160WB.XLS



WELL DATA SHEET

LEASE: EMSU WELL: 161
 LOC: 1980' F S L & 660' F E L SEC: 30
 TOWNSHIP: 20S CNTY: Lea
 RANGE: 37E UNIT: L ST: N.M.
 (formerly: New Mexico Aggies "H" NCT-I #4)

FORM: Grayburg / San Andres DATE: _____
 GL: 3529' STATUS: Producer
 KB: 3529' API NO: 30-025-06315
 DF: _____ CHEVNO: FA 74230-01

Date Completed: 2/18/37
 Initial Production: 1044 BOPD / 0 BWPD / 649 MCFG
 Initial Formation: Grayburg
 FROM: 3730' to 3830'

Completion Data

2/37 GB OHZ 3730-3830' ACDZ w/ 1000 gals HCl.

Subsequent Workover or Reconditioning:

2/41 High GOR. Formation pkr set @ 3755. Test flwd 65 BOPD. GOR 968. B/4 work: 45 BOPD / GOR 9250
 12/53 Acdz OH w/ 1500 gals gelled acid + 600 gals reg HCL acid. Test: 5 BO/ 27 mcf. B/4 work: 13 BO/ 269 mcf.
 9/63 Frac OH w/10000 gals ref. Oil +10000# sand.
 2/80 Acdz w/ 1500 gals 15% HCL
 4/86 COWH. CO junk to TD @ 3830'. Deepened to 3945' w/ 4 3/4" bit. Acdz OH w/ 5000 gals 15% NeFe HCl + 1500# GRS in 4 stages. Swb, rec'd 14 BW. SFL - 3000'. EFL - 3300'. Chem sqz. RTP. Test: 9 BOPD/ 67 BWPD/ 12 MCFGPD. B/4 work - 8 BOPD/ 10 BWPD/ 10 mcf gpd.
 10/89 Chem sqzd.
 3/90 Dump acid job - 1000 gals. 15% HCl. Test: 6 BO/ 60 BW/ 7 mcf. B/4 work: 2 BO/ 50 BW/ 3 MCFG.
 7/90 Log w/ GR, neutron, density, CCL. Perf 3646-54, 3660-70, 3688-3702 (2 JHPF). ACDZ new perms w/ 2500 gals 15% NeFe + 80BS. ISIP - Vac. Swb, rec'd 2 BW. SFL - 2700' EFL - 3580'. Test: 9 BO/ 47 BW/ 87 MCFGPD. B/4 work: 5 BO/ 40 BW/ 11 MCFGPD.
 7/96 Tag @ 3942'. Pickle tbg w/ 300 gals 15% NeA. ACDZ perms + OH w/ 6000 gals Resisol II in 5 stages. RIH w/ PE. TOTP.
 9/2000 Perf 3710-20' Acid 6500 gals foam.
Additional Data:
 T/Penrose @ 3456'
 T/Grayburg Zone 1 @ 3626'
 T/Grayburg Zone 2 @ 3672'
 T/Grayburg Zone 2A @ 3710'
 T/Grayburg Zone 3 @ 3746'
 T/Grayburg Zone 4 @ 3797'
 T/Grayburg Zone 5 @ 3866'
 T/Grayburg Zone 6 @ 3912'
 T/San Andres @ 3961'
 KB @ 3529'

10-3/4" OD
 40.5# CSG
 Set @ 158' W/ 100 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (13-3/4" hole)

7-5/8" OD 8rd
 26.4# CSG
 Set @ 1179' W/ 400 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (9-7/8" hole)

Tubing Detail: 7/3/96

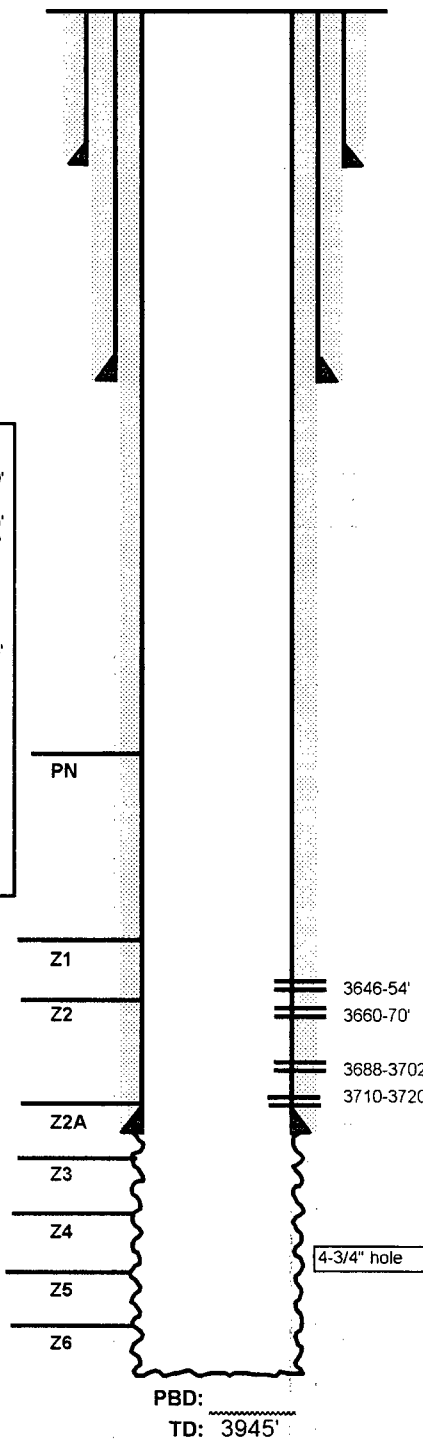
Original KBTH: 12.00'
 110 Jts. 2-7/8" J-55 6.5# 8rd thread
 tbg: 3460.55'
 2-7/8" X 5-1/2" TAC: 2.62'
 12 Jts. 2-7/8" 6.5# 8rd J-55 tbg: 378.21'
 2-1/4" Tbg Pump Barrel: 25.10'
 2-7/8" Slotted MAJ OP on btm: 15.75'

Landed @ 3894.23'

Rod Detail: 7/3/96

1-1/2" X 22' Polished Rod
 1 - 2' & 3 - 4' X 3/4" Rod Subs
 79 - 7/8" Grade "D" Rods
 96 - 3/4" Grade "D" Rods
 2-1/4" X 4' Plunger

5-1/2" OD 10rd
 17# CSG
 Set @ 3730' W/ 100 SX
 Cmt circ.? No
 TOC @ 2624' by calc.
 (6-3/4" hole)



FILE: EMSU161WB.XLS

Tubing Detail: 1/12/88

Original KBTH: 12.50'
118 Jts. 2-3/8" J-55 4.7# EUE 8rd
tbq: 3639.41'
5-1/2" Guiberson TAC: 3.50'
5 2-3/8" J-55 4.7# EUE 8rd 154.72'
2-3/8" Seating Nipple: 1.10'
2-3/8" J-55 EUE 8rd Perf Sub: 4.10'
2-3/8" J-55 EUE 8rd BPMA: 31.23'

Landed @: 3945.88'

Rod Detail: 1/12/88

1-1/4" X 22' Polished Rod w/ 16' X 1-1/2"
Liner
1 - 3/4" X 4' KD Subs
1 - 3/4" X 6' KD Subs
150 - 3/4" X 25' KD Rods
1 - 3/4" X 2' Sub
1-1/2" X 2' X 16' RWBC
1" X 12' Gas Anchor

Subsequent Workover or Reconditioning:

6/20/86 1 BO/245 BW/49 MCFG.
6/23/86 21 BO/650 BW (72 hr test)
6/24/86 7 BO/214 BW/46 MCFG.
6/25/86 7 BO/200 BW/ 46 MCFG.
6/26/86 7 BO/206 BW/46 MCFG.
1/10/88 Perf 3792-3816, 3820-22, 3830-32, 3859-61, 3714-
25, 3738-58, 3772-86 w/ 1 JHPF. Acids w/ 3750 gal 15%
NeFeA. Swab for 2 hrs. - 6 runs. Rec'd light tr oil / 19 BW.
SFL = 1500' EFL = 3100'. Est FeR - 8 BPH.
1/12/88 Swab for 3 hrs. - 8 runs. Rec'd 2 BO / 8 BW. SFL -
3100' EFL - 3600' FeR - 2 BPH (SSG w/ ea run).
1/15/88 Test: 0 BO/ 161 BW/ 17 MCFG.
1/18/88 Test: 8 BO/ 54 BW/ 12 MCFG.
2/16/88 Test: 2 BO/ 7 BW/ 9 MCFG.
9/89 Chemical sqzd.

Additional Data:

T/Queen Formation @ 3338'
T/Penrose Formation @ 3498'
T/Grayburg Zone 1 @ 3677'
T/Grayburg Zone 2 @ 3725'
T/Grayburg Zone 2A @ 3779'
T/Grayburg Zone 3 @ 3817'
T/Grayburg Zone 4 @ 3875'
T/Grayburg Zone 5 @ 3951'
T/Grayburg Zone 6 @ 3992'
T/San Andres Formation @ 4010'
KB @ 3548'

Current

Inj. _____ bwpd @ _____ psi Date: _____
Prod. _____ bopd _____ bwpd Date: _____
Gas _____

FIL



WELL DATA SHEET

LEASE: EMSU WELL: 170WI
LOC: 660' F S L & 660' F W L SEC: 31
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: M ST: N.M.
(formerly: Aggie State #2)

FORM: Grayburg / San Andres DATE: _____
GL: 3537' STATUS: Injector
KB: 3546' API NO: 30-025-06297
DF: _____ CHEVNO: FA 7415:01

Date Completed: 11/12/1936
Initial Production: F 600 BOPD 0 BWPD
Initial Formation: Grayburg
FROM: 3661' to 3835'

Completion Data

11/36 ACDZ OH w/ 1000 gals HCl.

Subsequent Workover or Reconditioning:

10/53 Acdz OH w/ 7500 gal
5/86 Deepened to 3997'. Log. Acdz OH w/4000 gal 15% NeA.
5/27 Perf 3667-69', 3702-04', 3715-17'. ACDZ perfs & OH w/
2000 gals 15% NeFeA. GIH w/ 2-3/8" J-55 4.7# IPC tbg & Baker
5-1/2" TSN-1 pkr. Set pkr @ 3604'. Inj: 730 BWIPD @ 0 psig.
8/90 Found tbg & csg ann comm. NDWH, NUBOP; shear pkr.
GIH w/ new TSN Baker pkr, circ. pkr fluid. Set pkr, tst csg ann
640# 30 min - OK. B/4 - 700 BWIPD @ 0# A - 720 BWPD @
84#.
12/95 Acdz perfs & OH w/ 5000 gal 15% NeFe HCl w/ Pentol 100
system.
11/30/1999 Acidized with CTU using Vortech tool 2100 gals 70%
foam
9/2001 Acidized with CTU using Vortech tool 2000 gals 70%
foam
Additional Data:
T/Queen Formation @ 3320'
T/Penrose Formation @ 3465'
T/Grayburg Zone 1 @ 3639'
T/Grayburg Zone 2 @ 3689'
T/Grayburg Zone 2A @ 3743'
T/Grayburg Zone 3 @ 3776'
T/Grayburg Zone 4 @ 3834'
T/Grayburg Zone 5 @ 3917'
T/Grayburg Zone 6 @ 3969'
T/San Andres Formation @ 4028'
KB @ 3546'

10-3/4" OD
CSG
Set @ 137' W/ 100 SX
Cmt circ.? yes
TOC @ surf. by calc.

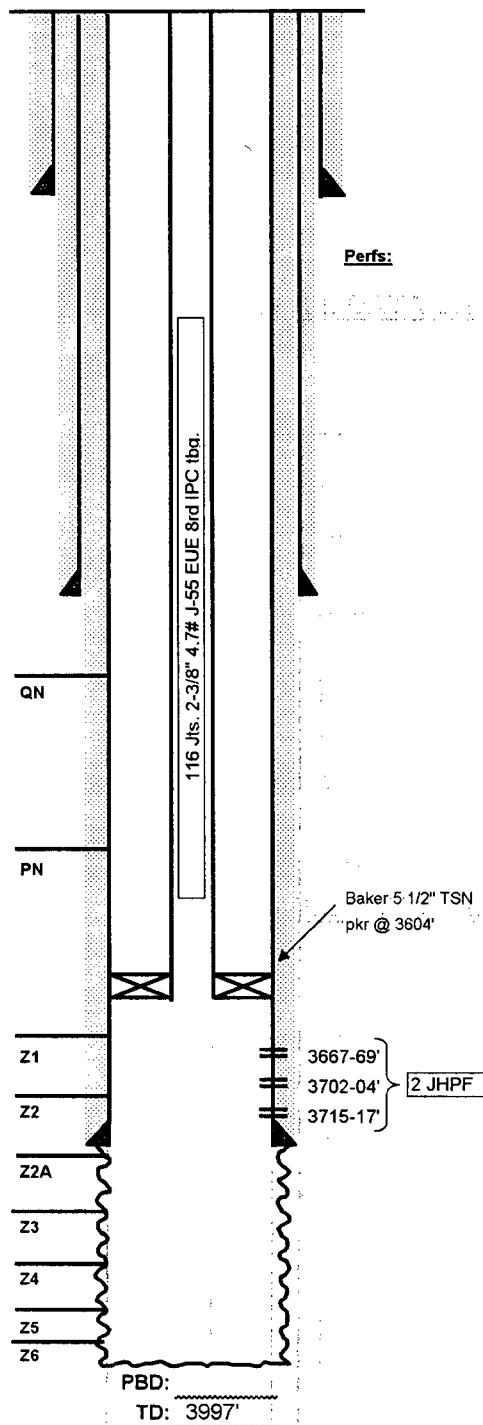
Tubing Detail: 5/8/87

Original KB to THF: 10.00'
1 Jt. 2-3/8" J-55 4.7# 8rd IPC EUE
tbg w/ short upset: 32.00'
116 Jts. 2-3/8" J-55 4.7# 8rd EUE
IPC tbg w/ ext. upset: 3556.63'
Baker TSN pkr 5.57'

Landed @ 3604.20'

7-5/8" OD
26.4# CSG
Set @ 1188' W/ 400 SX
Cmt circ.? yes
TOC @ surf. by calc.

5-1/2" OD
17# CSG
Set @ 3735' W/ 100 SX
Cmt circ.? No
TOC @ 2471' by calc.



FILE: EMSU170WB.XLS

Chevron



WELL DATA SHEET

LEASE: EMSU
 LOC: 660' F S L & 1980' F W L
 TOWNSHIP: 20S
 RANGE: 37E UNIT: N
 (formerly: Aggies State #1)

WELL: 171
 SEC: 31
 CNTY: Lea
 ST: N.M.

FORM: Grayburg / San Andres

DATE:

GL: 3540'
 KB: 3540'
 DF:

STATUS: Producer
 API NO: 30-025-06296
 CHEVNO: FA 74140:01

Date Completed: 6/10/36
 Initial Production: F7696 BOPD
 Initial Formation: Grayburg
 FROM: 3762' to 3850' / GOR 361

Completion Data

6/36 ACDZ OH w/ 500 gals HCl.

Subsequent Workover or Reconditioning:

9/63 C/O to 3850'. SS OH w/ 500 grns/ft (3787-3850'). Frac OH w/ 10,000 gal + 10,000# sand. Test: 49 BOPD/ GOR 551/ 22 BWPD. B/4: 6 BOPD/ 7400 GOR.
 5/85 C/O to 3850', test csg to 500 psi - OK. RTP - work by Exxon.
 2/88 COWH. Deepen to 3900'. Log w/ GR, CNL, CCL, caliper. Acdz OH 3762-3900' w/ 3500 gals 15% NeFe HCL in 3 stages. ISIP - vac. Swb, rec'd 46 BW w/ good tr oil. D/O CIBP and push to btm. C/O to 3900'. Run PE. TOTP. Test: 13 BO/ 35 BW/ 70 mcf. B/4: 1BO/ 3 BW/ 6 mcf.
 4/93 Well file indicate acid job - volume not shown. Test: 17 BO/ 82 BW/ 21 MCF. B/4: 15 BO/ 60 BW/ 22 MCF.

Additional Data:

T/Queen @ 3304'
 T/Penrose @ 3441'
 T/Grayburg Zone 1 @ 3622'
 T/Grayburg Zone 2 @ 3667'
 T/Grayburg Zone 2A @ 3707'
 T/Grayburg Zone 3 @ 3740'
 T/Grayburg Zone 4 @ 3787'
 T/Grayburg Zone 5 @ 3858'
 T/Grayburg Zone 6 @ 3905'
 T/San Andres @ 3958'
 KB @ 3540'

10-3/4" OD
 40.5# CSG
 Set @ 141' W/ 80 SX
 Cmt circ.? Yes
 TOC @ 17' by calc.
 (15" hole)

7-5/8" OD
 26.4# CSG
 Set @ 1214' W/ 400 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (9-7/8" hole)

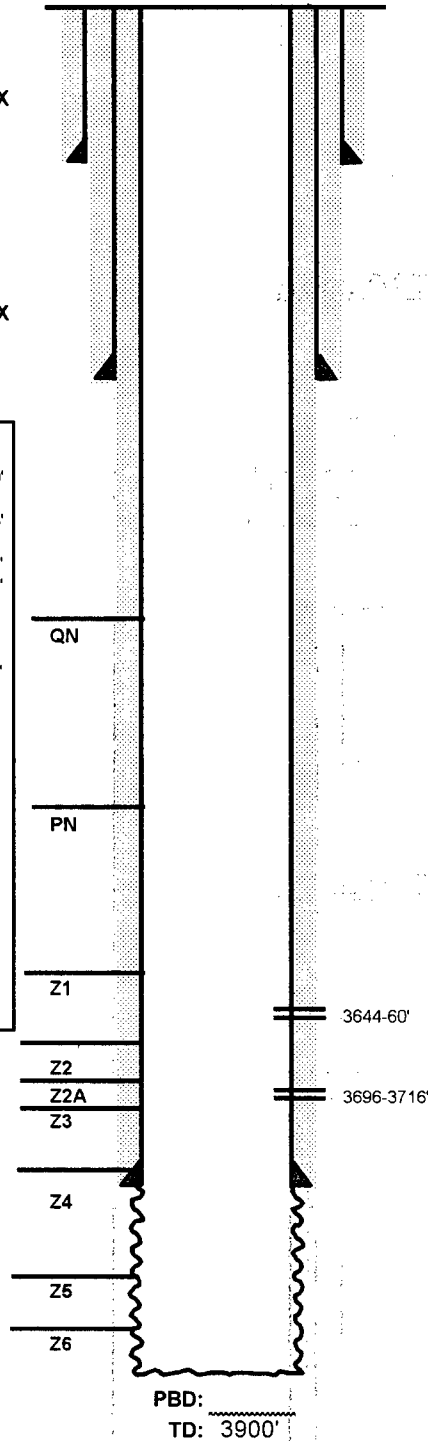
Tubing Detail: 2/6/88

Original KBTH: 0.00'
 18 Jts. 2-3/8" J-55 4.7# EUE 8rd
 tbq: 553.48'
 105 Jts. 2-3/8" H-40 4.7# EUE 10V
 tbq: 3278.76'
 2-3/8" EUE 8rd SN: 1.14'
 2-3/8" J-55 EUE 8rd Perf Sub: 4.14'
 2-3/8" J-55 4.7# EUE 8rd BPMA: 28.09'
 Landed @: 3865.61'

Rod Detail: 2/6/88

1-1/4" X 22' Polished Rod w/ 16' X
 1-1/2" Liner
 3/4" X 2' Rod Sub
 3/4" X 6' Rod Sub
 3/4" X 10' Rod Sub
 3 - 25' X 3/4" KD Rods
 148 - 3/4" X 25.04' Rods (Grade unkn)
 3/4" X 2' Rod Sub
 2" X 1-1/2" X 16' RWB-C
 1" X 12' Gas Anchor

5-1/2" OD 10rd
 17# CSG
 Set @ 3762' W/ 150 SX
 Cmt circ.? No
 TOC @ 2102' by calc.
 (6-3/4" hole)



FILE: EMSU171WB.XLS

Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 172WI
 LOC: 665' F S L & 1887' F E L SEC: 31
 TOWNSHIP: 20S CNTY: Lea
 RANGE: 37E UNIT: O ST: N.M.

FORM: Grayburg / San Andres DATE: _____
 GL: 3542' STATUS: injector
 KB: 3560' API NO: 30-025-29912
 DF: 16.6' CHEVNO: 1H4141:01

Date Completed: 8/19/1987

Initial Production: _____

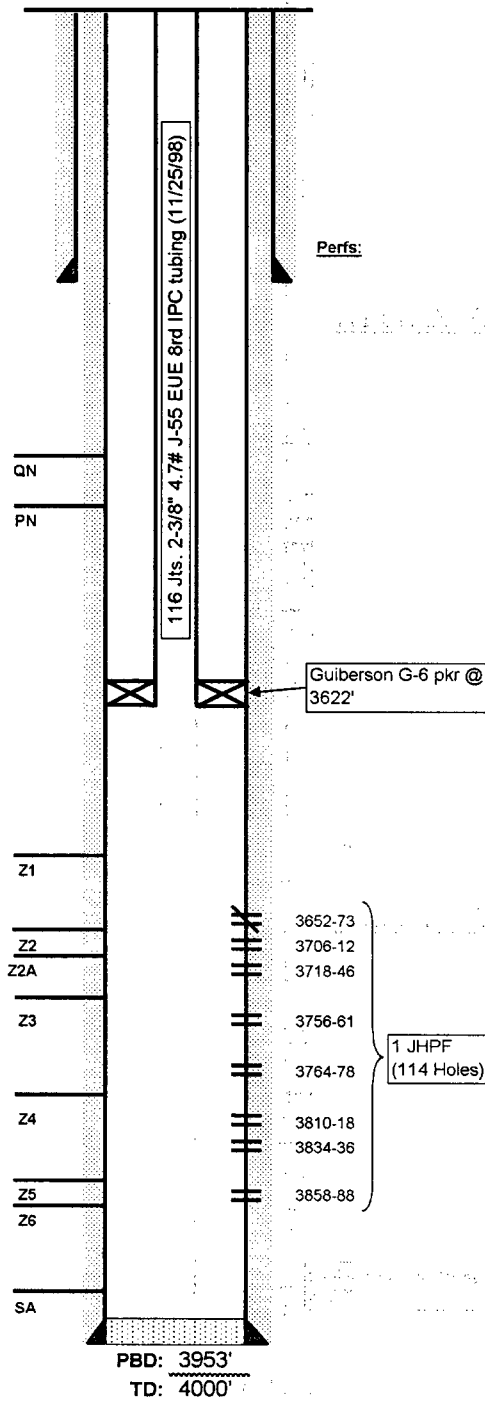
Initial Formation: Grayburg

FROM: 3652' to 3888'

8-5/8" OD
 32# & 24# CSG K-55 LT&C
 Set @ 1107' W/ 800 SX
 Cmt circ.? yes
 TOC @ surf. by calc.

Tubing Detail: 11/25/98

KBTH: 17.00'
 1 Jt. 2-3/8" IPC & externally coated tubing 31.00'
 116 Jts. 2-3/8" 4.7# EUE IPC tbg: 3566.50'
 FL O/O Tool w/ 1.781 "F" Nipple 1.98'
 Guiberson G-6 XL O/O 3.70'
 1 WL Re-Entry Guide 0.55'
 Landed @ 3620.73'



5-1/2" OD
 15.5# CSG K-55 LT&C 8rd
 Set @ 4000' W/ 625 SX
 Cmt circ.? yes
 TOC @ surf. by calc.

Completion Data

8/87 Perf 3652-73, 3706-12, 3718-46, 3756-61, 3764-78, 3810-18, 3834-36, 3858-88 (1JHPF). ACDZ w/ 3000 gals 15% NeFe HCl. ACDZ w/ 5500 gal 15% NeFe HCl. Ran 2-3/8" 4.7# J-55 IPC tbg & 5-1/2" Baker TSN pkr @ 3612'. INJ - 720 BWIPD @ 0 psig.

Subsequent Workover or Reconditioning:

11/9/98 RIH w/ polybore gauge ring to 3740' on sandline. Tag FL @ 1035' FS. SION. Set pkr @ 3607' w/ EOTP @ 3703'. ACDZ perms 3652-3888' w/ 2000 gals 15% Antisludge HCl pumping 1% KCl wtr foamed to 70Q. Swb, IFL-2800', EFL-SN. Dump 4250# 20/40 sand, wait & tag @ 3728'. Spot 800# sand, RIH tag @ 3611'. Set 5-1/2" CIBP @ 3695' (PU above perms). PU 5-1/2" CICR, RIH & leave swinging @ 3606'. M&P 115 SX CI C + additives, SQZD 90 SX in formation. D/O 11' cement and CICR, D/O hard cement to 3693'. Circ. clean. RTI wells 170 & 185. D/O CIBP, cmt and sand to 3711'. Wash sd to 3953'. Set Guiberson G-6 pkr @ 3622'. Run MIT. RTI.

10/12/2000 Acidized with CTU using Vortech tool with 3000 gals 70Q foam

Additional Data:

T/Queen Formation @ 3324'
 T/Penrose Formation @ 3468'
 T/Grayburg Zone 1 @ 3636'
 T/Grayburg Zone 2 @ 3674'
 T/Grayburg Zone 2A @ 3713'
 T/Grayburg Zone 3 @ 3747'
 T/Grayburg Zone 4 @ 3786'
 T/Grayburg Zone 5 @ 3847'
 T/Grayburg Zone 6 @ 3896'
 T/San Andres Formation @ 3927'
 KB @ 3560'

FILE: EMSU172WB.XLS



WELL DATA SHEET

LEASE: EMSU WELL: 186
LOC: 653' F N L & 1980' F W L SEC: 5
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: C ST: N.M.

FORM: Grayburg / San Andres DATE: _____
GL: 3551' STATUS: Producer
KB: 3551' API NO: 30-025-04516
DF: _____ CHEVNO: FA 5658:01

12-1/2" OD 8rd
50# CSG
Set @ 250' W/ 200 SX
Cmt circ.? yes
TOC @ surf. by calc

Tubing Detail: 1/8/87

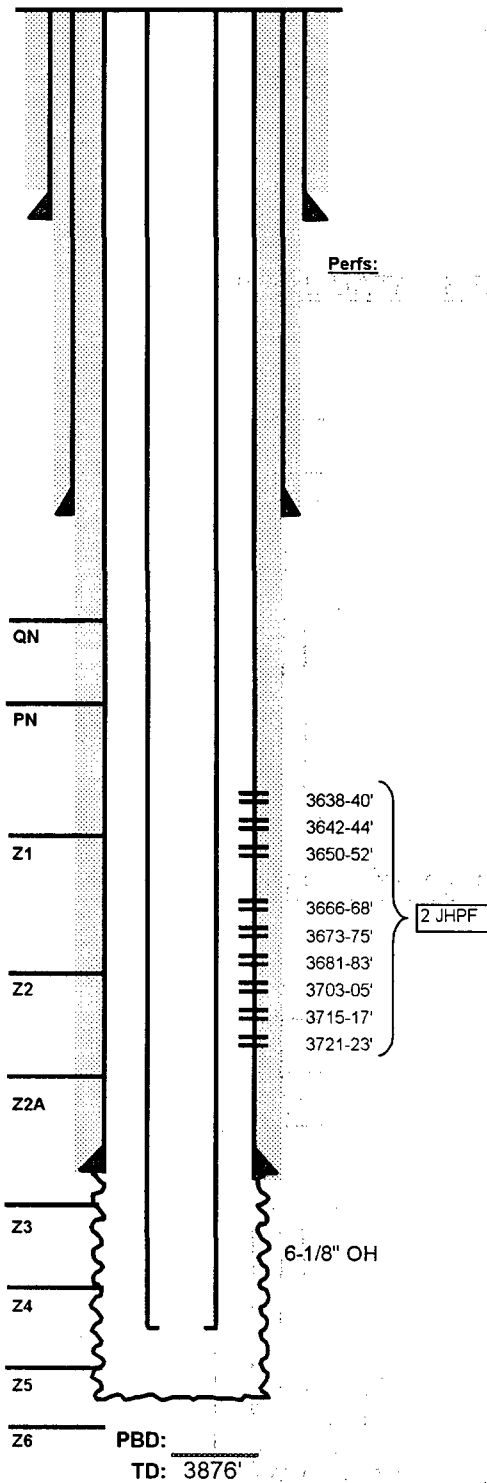
Original KBTH: 0.00'
1 Jt. 2-3/8" X 2-7/8" 8rd Swedge
N-80: 0.62'
2 Jts. 2-3/8" J-55 4.7# EUE 8rd
tbq: 62.18'
117 Jts. 2-3/8" 4.7# J-55 EUE 10V
tbq: 3746.99'
1 2-3/8" Std. SN: 1.10'
1 2-3/8" J-55 EUE 8rd perf sub: 3.14'
1 2-3/8" BPMA: 34.34'
Landed @: 3848.37'

9-5/8" OD
36# CSG
Set @ 1156' W/ 500 SX
Cmt circ.? yes
TOC @ surf. by calc

Rod Detail: 1/8/87

151 Jts. 3/4" X 25' Rods
1 1-1/8" X 16' Polished Rod
1 4' X 3/4" Sub
1 2' X 3/4" Sub
1 2" X 1-1/4" X 12' RWTC Pump
1 1" X 6' gas anchor

7" OD
24# CSG
Set @ 3752' W/ 250 SX
Cmt circ.? no
TOC @ 2215' by calc.



Date Completed: 9/17/1936
Initial Production: F7960 BOPD
Initial Formation: Grayburg
FROM: 3752' to 3862' GOR 766

Completion Data

Acdz w/1000 gals 15%

Subsequent Workover or Reconditioning:

4/40 Dump 1 sx cal seal in btm of hole to 3843'.
2/50 Acidized w/ 500 gal 20%. Test f/ 32 BOPD.
11/54 Acdz w/ 500 gal 15%. Tst f/ 24 BOPD.
7/55 Acdz w/ 1000 gal 15%. Tst f/ 22 BO / 4 BWPD.
9/55 Install ppg equip.
11/57 Acdz w/ 3000 gal acid. Tst: 25 BO / 9 BWPD.
8/70 Acdz w/ 750 gal 15% NeA. Tst: 6 BO / Tr. wtr. B/4 - Tst: 6 BO / 1BW.
3/74 Acdz w/ 750 gal 15% NeA. Tst 7 BO / 3 BW. B/4 - Tst: 6 BO / 3 BW
1/87 XOWH. C/O & deepen to 3876'. Run logs. Perf 3638-40', 3642-44', 3650-52', 3666-68', 3673-75', 3681-83', 3703-05', 3715-17', & 3721-23' w/ 2JHPF. ACDZ new perms w/ 3000 gal 15% NeFeA & RCNBs. Set pkr @ 3730'. Had comm on backside. PUH & acdz perms & OH w/ 4000 gal 15% NeFeA in 4 stgs w/ GRS.

Additional Data:

T/Queen Formation @ 3336'
T/Penrose Formation @ 3471'
T/Grayburg Zone 1 @ 3646'
T/Grayburg Zone 2 @ 3688'
T/Grayburg Zone 2A @ 3738'
T/Grayburg Zone 3 @ 3774'
T/Grayburg Zone 4 @ 3814'
T/Grayburg Zone 5 @ 3872'
T/Grayburg Zone 6 @ 3917'
T/San Andres Formation @ 3942'
KB @ 3551'

FILE: EMSU179WB.XLS



WELL DATA SHEET

LEASE: EMSU
LOC: 654' F N L & 660' F W L
TOWNSHIP: 21S
RANGE: 36E UNIT: D
WELL: 187WIC
SEC: 5
CNTY: Lea
ST: N.M.

FORM: Grayburg San Andres
GL: 3550'
KB: 3550'
DF:
DATE: 8/8/1936
STATUS: 30-025-04515
API NO: 30-025-04515
CHEVNO: FA 56570:01

Date Completed: 8/8/1936
Initial Production: F196 BOPD / 0 BWPD
Initial Formation: Grayburg
FROM: 3725' to 3861' GOR 714

Completion Data

Natural OH completion 3725-3861'.

Subsequent Workover or Reconditioning:

5/48 Acdz w/750 gal 15% & 1000 gal 15%
11/57 Acdz w/300 gal 15%
12/72 Acdz w/500 gal 15%. Tst 5 BO/9 BW. B/4 - 7 BO/7 BW
11/82 Perf @ 1300' w/ 4JHs. Set cmt retr @ 1187'. Cmt w/ 300 SX. Circ 50 SX out 7" / 9-5/8" ann. D/O cmt. Tst - leaked. Set retr @ 1187'. Cmt w/150 SX, D/O cmt. Test OK. Put on prod. Tst: 3 BO/ 5 BW/ 2 MCF B/4 tst 11 BO/Tr wtr.
9/83 Dump acid 1000 gal 15% NeFeA. Tst 2 BO/2 BW. B/4 - 3 BO/ 8 BW.
8/86 XO WH. Deepened to 4000'. Ran logs. Perf 3681-83, 3697-99 (2 JHPF). Acdz perms w/ 400 gal 15% NeFeA. ACDZ OH w/4000 gal 15% NeFeA & GRS block in 4 stages. Swb 11 BW. Found csg lk @ 1306-1316'. Rec'd OCD approval to proceed w/inj conv with csg leak. GIH w/2 3/8" JPC tbg & Baker TSN pkr. Set pkr @ 3621'. Tstd backside to 300 psi, OK. Put on inj @ 650 BWIPD @ 0 psig.
6/90 Tag @ 3941'. C/O f/3941 to 4000'. Set OH Pkr w/plug @ 3924'. Perf 3642-48 & 3660-66' (2 JHPF). ACDZ new perms w/ 1500 gal 15% NeFeA & 35 RCNBs. Swb 11 BW. ACDZ OH w/ 2750 gal 15% NeFeA in 3 stgs w/GRS on block. GIH w/ IPC tbg, set pkr @ 3583'. Tst backside to 300 psi OK. Attempt to inj. Found scale plug f/ 1470-1520'. GIH w/inj tbg. Set pkr @ 3583'. Put on inj. Test: 432 BWIPD @ 681 psig. B/4 - 648 BWIPD @ 348 psi. (PB zone 6). NOTE: Tagged PBD @ 3950' (Not 3924') when POH w/ IPC tbg.
11/93 ACDZ dn inj tbg w/4000 gal 15% mutual solvent/85% NeFeA in 4 stgs. Tst: 720 BWIPD @ 119 psi. B/4 - 216 BWIPD @ 655 psig.
11/95 Tag @ 3924'. ACDZ w/ 5000 gals 15% NeFe HCl.
11/13/98 Drillers depth has csg shoe @ 3725', WLM @ 3718'. Set pkr @ 3581' w/ TP @ 3707'. ACDZ OH w/ 2000 gals 15% Antisludge HCl & 50-70Q foamed 1% KCl wtr as diversion. Swb. Dump 4000# sand. Pump 1000 gals 15% acid & 9 BBL wtr. Tag sd @ 3736'. Set CIRC @ 3555'. M&P 150 SX CI C'cmt w/ N2, then M&P 50 SX cement slurry + 12 BBL water without N2 disp. D/O cmt to CIRC @ 3555'. Fin D/O hard cmt to 3735'. Wash sand to 3892'. Circ. clean. CO fill fr 3892' to 3924' (Top of PIP packer). Run MIT. RTI & turn over to production.
11/29/1999 Acidized with CTU using Vortech tool and 1700 gals 70Q foam
10/16/2000 Acidized with CTU using Vortech tool and 2400 gals 70Q foam

Additional Data:

T/Queen Formation @ 3323'
T/Penrose Formation @ 3457'
T/Grayburg Zone 1 @ 3634'
T/Grayburg Zone 2 @ 3682'
T/Grayburg Zone 2A @ 3728'
T/Grayburg Zone 3 @ 3759'
T/Grayburg Zone 4 @ 3812'
T/Grayburg Zone 5 @ 3882'
T/Grayburg Zone 6 @ 3943'
T/San Andres Formation @ 3993'
KB @ 3550'

12-1/2" OD
50# CSG
Set @ 250' W/ 200 SX
Cmt circ.? yes
TOC @ surf. by calc.

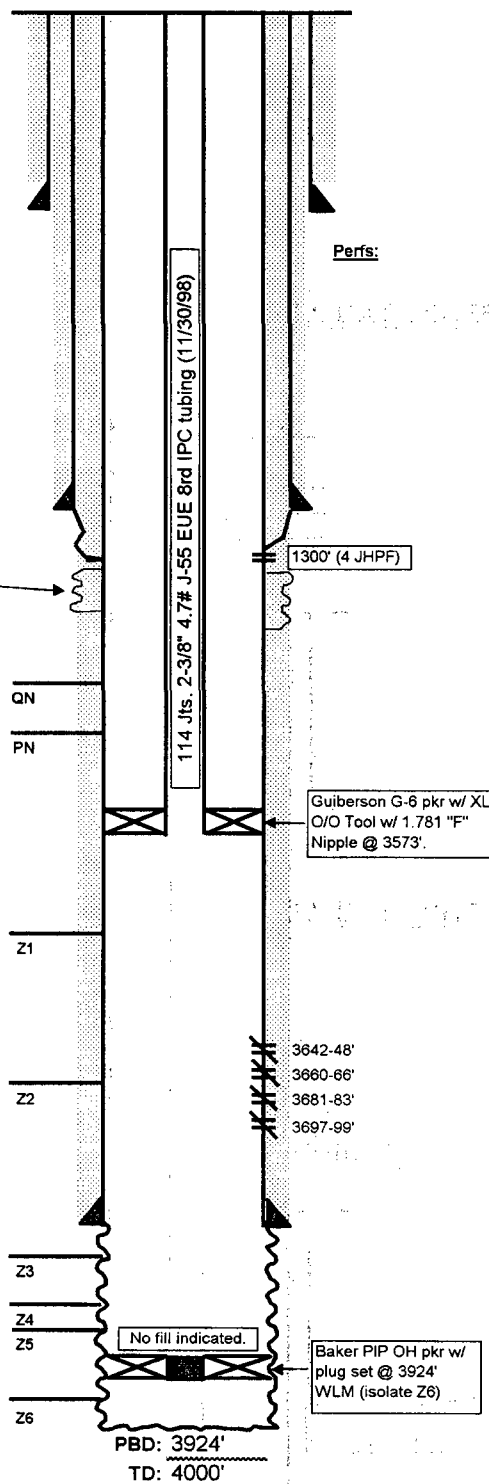
9-5/8" OD
36# CSG
Set @ 1252' W/ 500 SX
Cmt circ.? yes
TOC @ surf. by calc.

Cmt w/ 300 SX. Recemented w/ 150 SX. NOTE: Leak still exists. OCD allows csg test of 300 psi. At this pressure, csg tests good. Leak @ 1306-16'.

Tubing Detail: 11/30/98

KBTH: 0.00'
1 Jt. 2-3/8" IPC & externally coated tubing 31.00'
114 Jts. 2-3/8" 4.7# EUE IPC tbg: 3540.46'
FL O/O Tool w/ 1.781 "F" Nipple 1.98'
Guiberson G-6 XL O/O 4.55'
1 WL Re-Entry Guide 0.55'
Landed @ 3578.54'

7" OD
24# CSG
Set @ 3725' W/ 250 SX
Cmt circ.? no
TOC @ 2188' by calc.



FILE: EMSU187WB.XLS

Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 188
 LOC: 660' F N L & 660' F E L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: A ST: N.M.
 (formerly: H.T. Orcutt NCT-C #2)

FORM: Grayburg / San Andres DATE: _____
 GL: 3554' STATUS: Producer
 KB: 3554' API NO: 30-025-04533
 DF: _____ CHEVNO: FA 5675:01

Date Completed: #####
 Initial Production: 7/420 BOPD / 0 BWPD
 Initial Formation: Grayburg
 FROM: 3740' to 3855' / GOR 2205

Completion Data

Acid OH w/ 1000 gal acid.

Subsequent Workover or Reconditioning:

3/53 Install ppg equip. Tst 46 BO/0 BWPD / GOR 303
 1/63 Acidz w/ 500 gal 15% NeA
 5/64 Acidz w/ 500 gal 15% NeA. Tst: 24 BO/0 BWPD
 8/83 Dump acid 1000 gal 15% NeFeA. Tst: 16 BO/1 BW - B/4=14 BO/0 BW.
 1/88 C/O deepened to 3894'. Perf 3670-90 w/1JHPF. Acidz new perms w/ 2000 gal 15% NeFeA. Swb 36Bw w/heavy trace oil. Test: 3 BO/6 BW/8 mcf FL=31'ASN. B/4=4 BO/1BW/5 MCFG.
 2/90 Dump acid 1000 gal 15% NeFeA Test 10 BO/ 7 BW/ 12 MCFG. B/4 tstd - 7 BO/8 BW/ 10mcfpd.
 10/95 Tag fill @ 3893'. Pickle tbg. Acidz w/6250 gal Viscosi Mutual solvent & acid in 5 stagges. RIH w/PE Test A-93bo/228Bw/16mcf B-81Bo/84Bw/9mcf
 4/98 No communication betw. OH and perms; ACIDZ OH w/ 3000 gal 15% S-3000 and 1000 gals 15% Reaxe.

Additional Data:

T/Queen Formation @ 3338'
 T/Penrose Formation @ 3493'
 T/Grayburg Zone 1 @ 3677'
 T/Grayburg Zone 2 @ 3728'
 T/Grayburg Zone 2A @ 3797'
 T/Grayburg Zone 3 @ 3831'
 T/Grayburg Zone 4 @ 3882'
 T/Grayburg Zone 5 @ 3949'
 T/Grayburg Zone 6 @ 4019'
 T/San Andres Formation @ 4074'
 KB @ 3554'

10-3/4" OD
 32.75# CSG
 Set @ 296' WI 250 SX
 Cmt circ. ? Yes
 TOC @ surf. by calc.

7-5/8" OD
 22# CSG 8rd
 Set @ 1085' WI 200 SX
 Cmt circ. ? No
 TOC @ 60' by calc.

Tubing Detail: 4/27/98

Original KBTH: 0.00'
 115 Jts. 2-7/8" J-55 EUE 8rd tbg: 3623.34'
 2-7/8" X 5-1/2 TAC: 2.70'
 6 Jts. 2-7/8" tbg: 188.65'
 2-7/8" IPC tbg: 31.37'
 2-7/8" SMAJ: 15.70'
 Landed @: 3861.76'

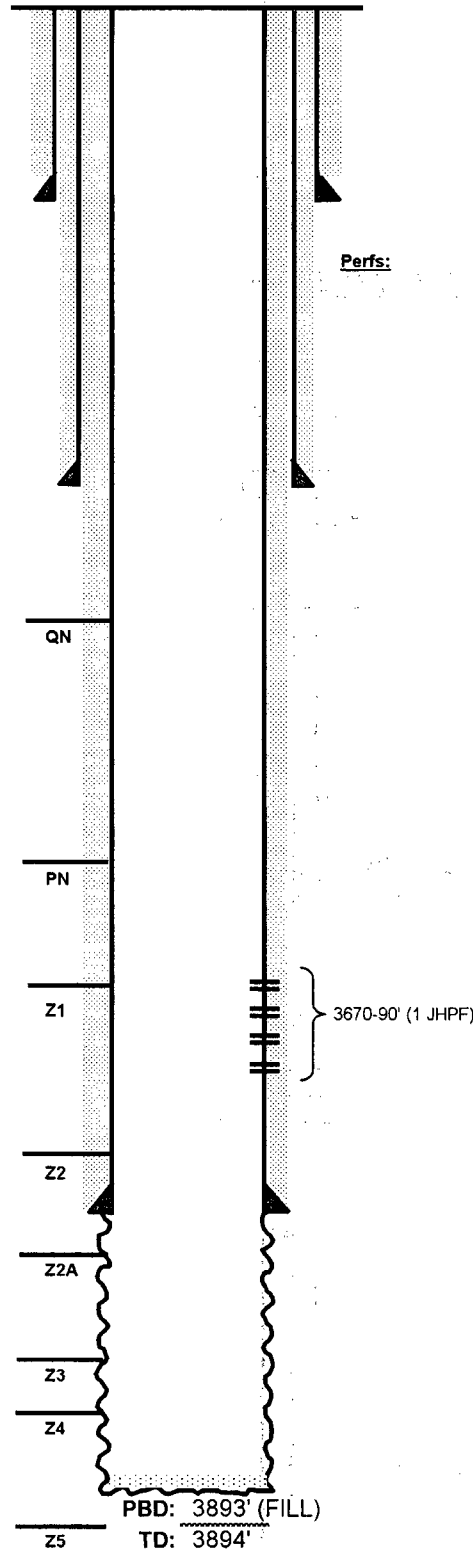
Rod Detail: 4/27/98

1-1/4" X 22' Polished Rod w/ 16' Liner
 1 - 7/8" X 4' KD Sub
 1 - 7/8" X 6' KD Sub
 52 - 7/8" KD Rods
 100 - 3/4" KD Rods
 3/4 X 2' Sub
 25-200-RWBC Pump

5-1/2" OD
 17# CSG 10rd
 Set @ 3740' WI 150 SX
 Cmt circ. ? No
 TOC @ 1765' by calc.

FILE: EMSU188WB.XLS

printed: 11/26/2002



Chevron



WELL DATA SHEET

LEASE: EMSU
 LOC: 760' F N L & 1780' F E L
 TOWNSHIP: 21S
 RANGE: 36E UNIT:

WELL: 189WI
 SEC: 6
 CNTY: Lea
 ST: N.M.

FORM: Grayburg/San Andres

DATE:

GL: 3545'
 KB: 3558'
 DF: 11.5'

STATUS: Injector
 API NO: 30-025-29614
 CHEVNO: FW60230.01

Date Completed: 12/11/1986

Initial Production: Injection: 720BWPD

Initial Formation: Grayburg

FROM:

Completion Data

D/O cmt to 4083' PBTD. Perf 3700-02, 3714-16, 3726-28, 3739-41 3746-48, 3763-65, 3778-80, 3787-89, 3798-3800, 3815-17, 3826-28, 3832-34, 3840-42, 3851-53, 3857-59, 3873-75, 3879-81, 3885-87, 3897-99, 3907-09 (1 JHPF). Acdz w/ 3800 gal 15% NeFeA. Put on injection 6/1/87.

Subsequent Workover or Reconditioning:

6/90 GIH w/ bit. Tag @ 4080'. Perf 3936-40, 3950-54, 3960-66 3974-86 (2 JHPF). Acdz w/ 850 gal 15% NeFeA & comm w/ upper perms. PUH & acdz all perms w/ 4050 gal 15% NeFeA 7 85 RCNB's. Swb 1 BO/3 BW in 1 run. GIH w/ Baker TSN pkr & 2-3/8" 4.7# J55 IPC tbg. Circ pkr fld & set pkr @ 3645'. Put on inj. Test 576 BWIPD @ 0psi. B/4 - 144 BWLPD @ 730 psi.

11/93 Acdz w/4000 gal 15% NeFe Unisol mix. Injecting as follows:
 A - 1512 BWLPD @ 410 psi (12/93) B - 288 BWLPD @ 659 psi

1/98 Tag @ 3968'. CO scale & Fe to 4083'. ACDZ perms 3778-3896' w/ 3000 gal 15% RS II w/ 500 gal 70Q GBW as diverter.

9/99 PB with sand to 3770 Acidized perms 3700-65 w 750 gals. Sqzd bad spot and perms in casing 3700-65 with 175 sks Drilled out had pieces of metal and formation Drill good cement 3700-3767 Placed well back on injection.

10/2000 Acid wash with CTU using Vortech tool with 5500 gals

Additional Data:

T/Queen Formation @ 3338'
 T/Penrose Formation @ 3519'
 T/Grayburg Zone 1 @ 3711'
 T/Grayburg Zone 2 @ 3769'
 T/Grayburg Zone 2A @ 3817'
 T/Grayburg Zone 3 @ 3879'
 T/Grayburg Zone 4 @ 3919'
 T/Grayburg Zone 5 @ 3995'
 T/Grayburg Zone 6 @ 4045'
 T/San Andres Formation @ 4066'
 KB @ 3558'

11 3/4 OD
 42 # CSG
 Set @ 353' W/ 325 SX
 Cmt circ.? yes
 TOC @ by

8 5/8 OD 24 & 32#
 # CSG
 Set @ 2599' W/ 775 SX
 Cmt circ.? yes
 TOC @ by

Tubing Detail: 1/17/99

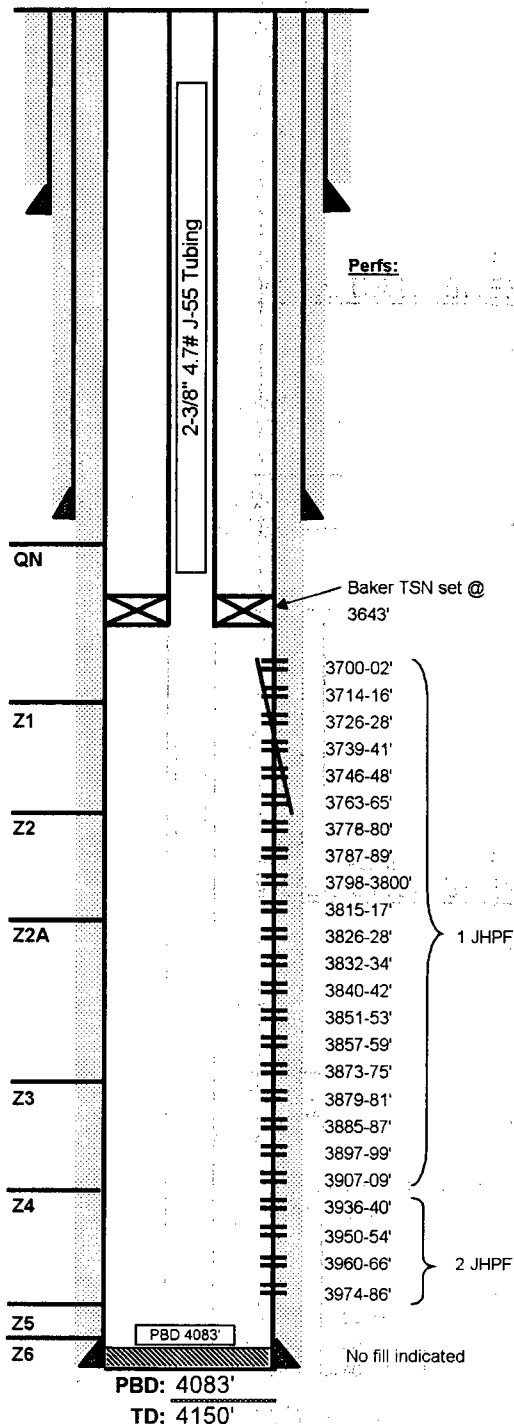
KBTH: 12.50'
 117 Jts. 2-3/8" 4.7# J-55 EUE IPC
 tbg.: 3625.00'
 XL O/O Tool w/ 1.781 F Nipple 1.97'
 Guiberson G-6 P.C. pkr 3.73'

Landed @ 3643.20'

BAD SPOT IN CSG 3714' TO 3720'

5 1/2 OD 15.5#
 # CSG
 Set @ 4149' W/ 625 SX
 Cmt circ.? yes
 TOC @ by

FILE: EMSU189WB.XLS



Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 194 Horizontal

LOC: 2254' F N L & 2080' F E L SEC: 6

TOWNSHIP: 21S CNTY: Lea

RANGE: 36E UNIT: G ST: N.M.

FORM: Grayburg/San Andres DATE:

GL: 3557.8' STATUS: Producer

KB: 3570.3' API NO: 30-025-29599

DF: CHEVNO: FW6020:01

Date Completed:

Initial Production: 23BOPD 27BWPD

Initial Formation: Grayburg

FROM: 3891' to 4020'

Completion Data

SEE 194 VERTICAL WELL SKETCH

Subsequent Workover or Reconditioning:

1/97 Set pkr @ 3529'. SQZD perfs fr 3774-3864 w/ 125 SX. CI C PUH w/ pkr to 2882', sqz 54 SX. POH w/ pkr, TOC @ 3529. D/O cmt to 4020', fill to 4050'. Set CIBP @ 3733.5'.

3/97 RIH w/ whipstock, set @ 3726'. Mill window 1/3712-3714'. Drill horizontal to 5698'.

4/97 RIH w/ isolation pkr, top @ 3662'. Btm @ 4570'.

5/97 PUH, set isolation pkr top @ 3668'. Btm @ 3895'.

6/97 Treat w/ 2278 Bbls. 0.5% Marcit polymer.

7/97 POH w/ isolation assembly. Set infl. pkr @ 4123'. ACDZ w/ 22,500 gals 15% NeFe w/ 85Q N2. POH w/ infl. pkr.

Additional Data:

T/Queen Formation @ 3375'

T/Penrose Formation @ 3578'

T/Grayburg Zone 1 @ 3770'

T/Grayburg Zone 2 @ 3816'

T/Grayburg Zone 2A @ 3876'

T/Grayburg Zone 3 @ 3931'

T/Grayburg Zone 4 @ 3974'

T/Grayburg Zone 5 @ 4065'

T/Grayburg Zone 6 @ 4145'

T/San Andres Formation @ 4197'

KB @ 3570'

11 3/4 OD
42 # CSG
Set @ 358' W/ 325 SX
Cmt circ.? yes
TOC @ surf by

8 5/8 OD 24&32#
CSG
Set @ 2598' W/ 650 SX
Cmt circ.? yes
TOC @ surf by

Tubing Detail: 5/29/97

KBTH: 11.18'

115 Jts. 2-7/8" 6.7# J-55 EUE 8rd
tbg.: 3617.80'

2-7/8" EUE 8rd Tbg Sub 10.10'

2-7/8" X 4" Tbg Sub 4.03'

2-7/8" X 5" Tbg Sub 5.92'

2-7/8" X 2" EUE 8rd Tbg Sub 2.16'

2-3/8" X 2-7/8" XO 0.41'

2-3/8" X 3-3/4" On/Off Tool 1.87'

5.5" X 2-3/8" Baker FH pkr 6.15'

8" X 2-3/8" EUE 8rd Tbg Sub 8.10'

2-3/8" Sliding Sleeve 3.84'

2-3/8" X 8" EUE Tbg Sub 8.10'

2-7/8" API SN 1.10'

2-3/8" X 1.81" F Profile Nipple 0.92'

14 jts. 2-3/8" J-55 4.7 tbg. 437.97'

3-3/4" X 2-3/8" On/Off Tool 1.56'

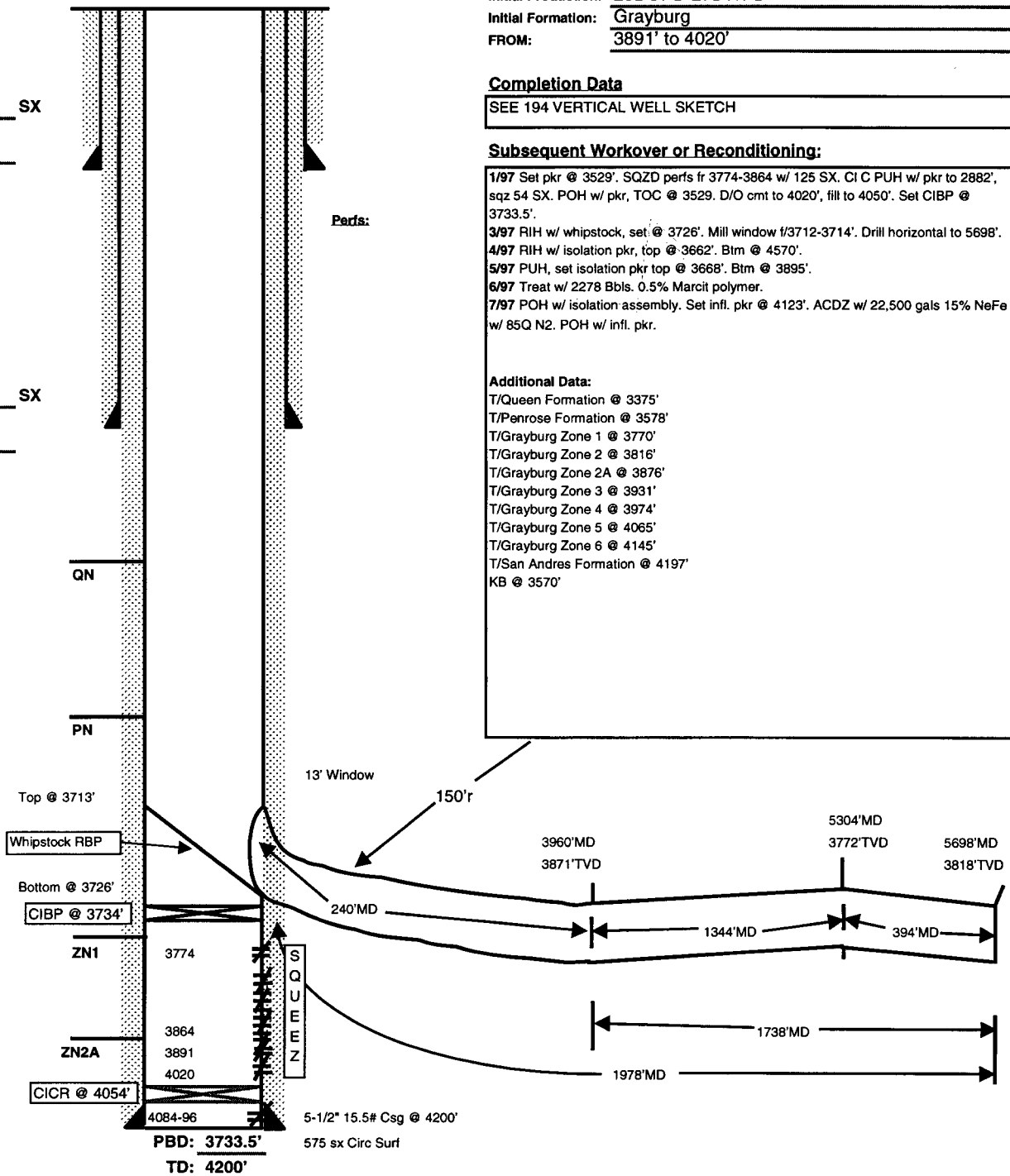
Baker OH Single Set PIP 8.79'

Landed @ 4130.00'

Rod Detail: 5/29/97

57 jts. 7/8" X 25' Steel rods

86 jts. 3/4" X 25' Steel Rods



FILE: EMSU194H_WB.XLS

printed: 10/24/2000



WELL DATA SHEET

LEASE: EMSU WELL: 195
 LOC: 5940 'F S L & 660 'F E L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: H ST: N.M.

FORM: Grayburg / San Andres DATE: _____
 GL: 3568' STATUS: Injector
 KB: 3564' API NO: 30-025-04532
 DF: _____ CHEVNO: FA 56740:01

Date Completed: 10/4/1936
 Initial Production: F438BOPD
 Initial Formation: Grayburg
 FROM: 3753' to 3870' GOR 6703

Completion Data

Acidz w/2000 gals 50-50 Non-inhibitor solution

Subsequent Workover or Reconditioning:

3/53 Install ppg equip
 3/69 Trt for scale w/60 gals
 5/69 Trt for scale w/500 gals 15% NeA
 2/71 Acidz w/1000 gals 28% HCl
 5/71 Frac 7476 gals Frac Flu 1-3# SPC & 15,500# sd
 4/73 Acidz w/750 gals 15% NeA & Trt for scale
 3/74 Trt for scale
 8/81 Dump acid job - 1000 gals 15% NeA
 10/81 Chem Sqz w/190 gals
 4/82 Chem sqz w/180 gals
 6/87 Deepen to 3930'. Run logs; Perf 3690-3706' w/1JHPF; Acidz perf int w/1500 gals 15%; put on inj; Tst 720 BWIPD @ 0 PSIG
 4/94 Acidz w/4000 gals 15% NeFe/unisol mix. A- 1909 BWIPD @ 0 psi B-276 BWIPD @ 600 psi
 2/98 SQZD 3690-3706' w/ 300 SX Cl C cmt w/ 2% CaCl, 5/10% BA-10, 3/10% CD-32 (249 SX in form.). ACIDZ OH w/ 3000 gal 15% 90/10/ Resisol II w/ 70Q GBW as diverter.
 11/23/1999 Acidized with CTU using Vortech tool 1500 gals foamed acid.
 8/2000 Deepen well to 4040 Acidized OH with 4000 gals 15% HCl foamed w/ N2.

Additional Data:

T/Queen Formation @ 3308'
 T/Penrose Formation @ 3444'
 T/Grayburg Zone 1 @ 3613'
 T/Grayburg Zone 2 @ 3648'
 T/Grayburg Zone 2A @ 3678'
 T/Grayburg Zone 3 @ 3702'
 T/Grayburg Zone 4 @ 3736'
 T/Grayburg Zone 5 @ 3780'
 T/Grayburg Zone 6 @ 3831'
 T/San Andres Formation @ 3840'
 KB @ 3564'

Current

Inj. _____ bwpd @ _____ psi Date: _____
 Prod. _____ bopd _____ bwpd Date: _____
 Gas _____

16 "OD
 70 # CSG
 Set @ 39.5 'W/ 60 sx.
 Cmt circ. yes
 TOC @ surf by calc
 (20" hole)

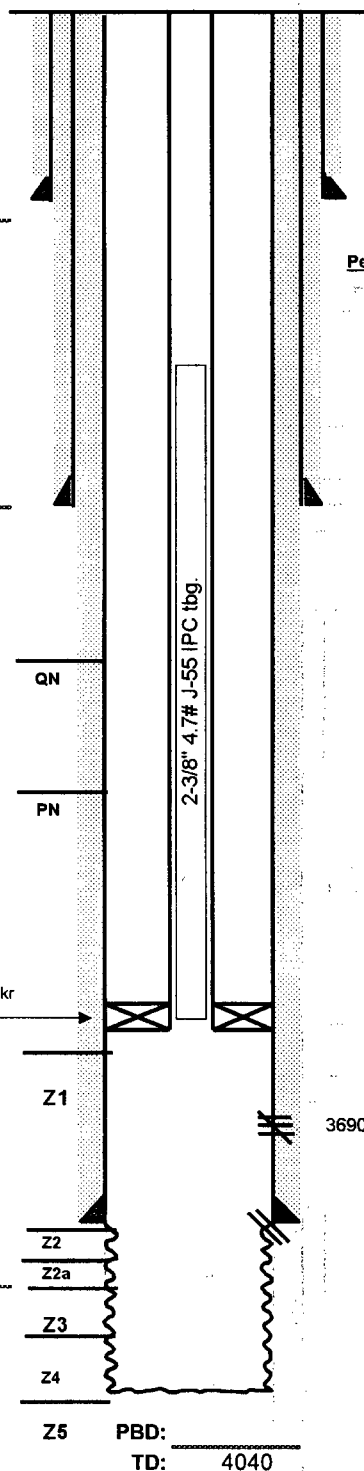
7-5/8 "OD 22# 8Thd
 # CSG
 Set @ 1162 'W/ 567 sx.
 Cmt circ. yes
 TOC @ surf by calc
 (9-7/8" hole)

Tubing Detail:

KBTH: 4.00'
 2-3/8" IPC tubing with 1.781" nipple
 and on/off tool
 Landed @ 3621'

5-1/2 "OD 17# 10Thd
 # CSG
 Set @ 3753 'W/ 300 sx.
 Cmt circ. no
 TOC @ 433 'by calc
 (6-3/4" hole)

FILE: EMSU195WB.XLS



3690-3706 (1JHPF)

PBD: 4040
 TD: 4040



WELL DATA SHEET

LEASE: EMSU WELL: 197W
 LOC: 1965 'F N L & 1980 'F W L SEC: 5
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: F ST: N.M.

FORM: Gbg/SA DATE: _____
 GL: 3567 STATUS: Injector
 KB: 3578 API NO: 30-025-04511
 DF: 11 CHEVNO: FA 56530.01

Date Completed: ##### Initial Prod.: 637 BOPD
 Initial Formation: Grayburg
 FROM: 3754' to 3882'

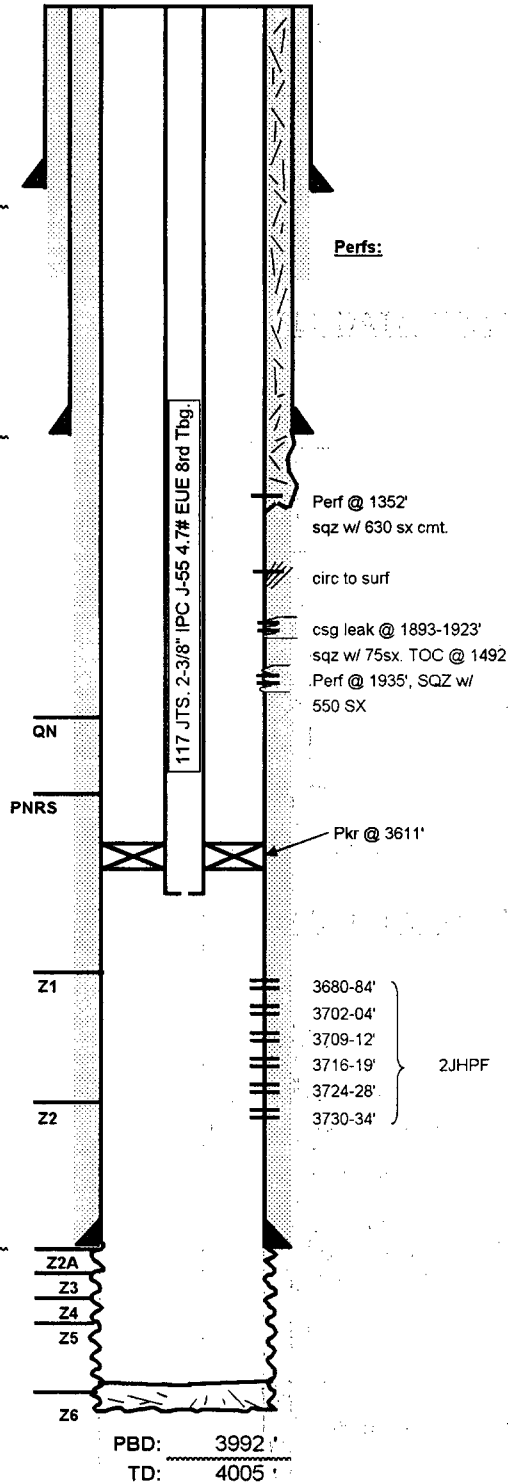
15-1/2" OD
 70 # CSG
 Set @ 275' W/ 200 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (17-1/2" hole)

10" OD 40# 8 Thd
 # CSG
 Set @ 1170' W/ 655 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (12" hole)

Tubing Detail:

KBTH: 11.00'
 117 Jts. 2-3/8" 4.7# J-55 IPC:
 Guiberson G-6 Pkr
 Landed @

7" OD 24 & 26# 10 Thd
 # CSG
 Set @ 3754' W/ 350 SX
 Cmt circ.? No
 TOC @ 2330' by CBL
 (8-3/4" hole)



Completion Data

OHZ Grayburg. 3754-3882.
 Initial prod F 425 BO in 16hrs. On 1/4" choke w/ 800cfp

Subsequent Workover or Reconditioning:

4/1/40 - Acdz w/300 gal
 6/13/49 - Acdz w/500 gal 20%
 11/56 - Acdz w/1000 gals 15%
 7/8/58 - PB w/Hydromite to 3865'. Frac OH 3760-3865' w/16000 gals oil in 1ppg sand A/w 25 BO/21 BW GOR 15000 B/4 - none
 4/25/62 - Acdz w/1000 gals 15% + 1000 gals GYPaid A/w 19 BO/33 BW B/4: 11BO/31BW
 2/3/69 - Acdz w/500 gals 15%. Pump 500 gal 20% NeA. Swab test - No FE. Cl.
 2/25/69 - Acdz w/500 gals 20%
 6/27/69 - CO to TD. PB w/ Hydromite to 3873. RIH w/ prod. equip.
 9/15/81 - Acdz w/750 gals 15%
 7/21/82 - Acdz w/ 1000 gals 15%. a/w 14 BO/28 BW B/4: 0 BO/0 BW
 7/84 - Chemical treat
 8/10/86 - CO from 3852 - 3873'. COWH. Deepen to 4005'. Run CNL-GR-CCL. Perf. 3702-04' w/ 2 JHPF. Acdz 3702-04' w/200 gals. acdz OH w/4000 gals 15% w/1500# GRS in GBW. Swab acid water. RIH w/119jts 2-3/8" J-55 IPC tbq. Pkr @ 3650'. TOP PWOI 11/17/96 @ 650BPP
 11/1/88 - POOH pkr due to CDH. CO 6 jts 2-3/8" tbq pitted. XO pkr, set pkr @ 3627'. Test csg to 500 psi. Bled to 400 psi in 30 min. PWOI 11/1/88.
 4/89 - POH w/inj string. Sqz csg leak 1893-1923' w/75 SX. Perf w/ 2 holes @ 1935, sqz w/ 550 SX. Perf 7" csg w/ 2 hole @ 1352'. Sqz w/ 630 SX & circ. to surf. CO to 3992'. Perf 3680-3734' w/ 2 JHPF. Acdz w/ 900 gals 15%. CO to 3992'. Ran 117 jts 2-3/8" J-55 4.7# EUE 8rd IPC tbq. Set pkr @ 3611'. Test tbq to 5000 psi. Test csg/pkr 600 psi.
 1/98 - ACDZ 3750-3960' w/ 3000 gal 15% 90/10 Resisol II w/ 70Q foamed brine wtr. down ann. Well was dead. RTI.
 11/1999 Acidized with CTU using Vortech tool 2080 gals foamed acid.

Additional Data:

T/Queen Formation @ 3368'
 T/Penrose Formation @ 3508'
 T/Grayburg Zone 1 @ 3679'
 T/Grayburg Zone 2 @ 3725'
 T/Grayburg Zone 2A @ 3758'
 T/Grayburg Zone 3 @ 3798'
 T/Grayburg Zone 4 @ 3855'
 T/Grayburg Zone 5 @ 3942'
 T/Grayburg Zone 6 @ 3999'
 T/San Andres Formation @ 4044'
 KB @ 3578'

Current

Inj. _____ bwpd @ _____ psi Date: _____
 Prod. _____ bopd _____ bwpd Date: _____
 Gas _____ mcfd



WELL DATA SHEET

LEASE: EMSU WELL: 198
LOC: 1791' F N L & 1980' F E L SEC: 5
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: G ST: N.M.

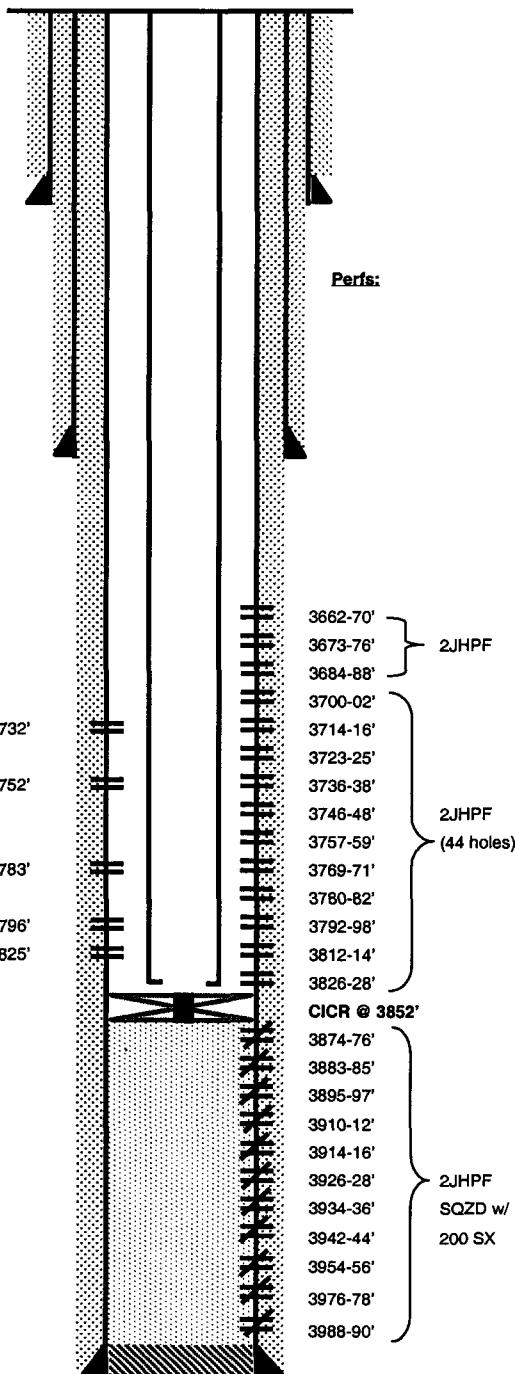
FORM: Grayburg/San Andres DATE:
GL: 3559.5' STATUS: Producer
KB: 3572' API NO: 30-025-29682
DF: CHEVNO: FZ 66940:01

11 3/4 OD
42 # CSG
Set @ 368' W/ 425 SX
Cmt circ.? yes
TOC @ surf by calc
(14-3/4" hole)

8 5/8 OD 24#
ST&C # CSG Gr. K-55
Set @ 2560' W/ 700 SX
Cmt circ.? yes
TOC @ 16' by calc
(11" hole)

Tubing Detail: 5/23/87
KBTH: 12.50'
121 Jts. 2-3/8" 4.7# J-55 EUE 8rd
tbq.: 3782.99'
4" X 2-3/8" Perf Sub 4.05'
MA w/ BP 31.80'
Landed @ 3831.34'

5 1/2 OD 15.5# 8rd Thd
CSG Gr. K-55
Set @ 4074' W/ 575 SX
Cmt circ.? No
TOC @ 575' by TS
(7-7/8" hole)



PBD: 3835'
TD: 4074'

Date Completed: 6/1/1986
Initial Production: OBOPD 215BWPD
Initial Formation: Grayburg zone 415
FROM: 3874' to 3990'

Completion Data

Perfs 5 1/2" csg @ 3988-90', 3876-78', 3954-56', 3942-44', 3934-36', 3926-28', 3914-16', 3910-12', 3895-97', 3883-85', 3874-76' (2JHPF).

Subsequent Workover or Reconditioning:

7/86 Set CIBP @ 3905, well produced 0Bo/225Bw.
7/86 DO CIBP @ 3905. Sqz perfs 3874-3990 w/300 sx CL "C". Test to 1000 psi - OK. Reperf 3883-3944'. Acdz w/1500 gal 15% HCL. Swab SFL 300 FS FFL 3000 FS Bec 4Bo/72BLW. Perf 3700-3828(zones 2 & 4). Acdz w/3000 gal. Swab dry. Rec 22 BAW.
5/87 Sqz perf 3874-3956' w/ 200 SX. Left 166sx below RTNR @ 3852'. CO to RTNR @ 3852' (359') Perf r/3714-3828 - 1JSPF. PBD w/WL 3841'. Acdz w/5000 gals 15% NeFe HCL. ISIP-vac. Swab dry. Rec 3Bw. RIH w/PE. TOP.
8/88 Chem treat.
6/89 Acdz 3700-3828 w/1375 gals 15% NeFe HCL. Perf 3662-70, 3673-76, 3684-88 w/2JHPF. Acdz w/7750 gals. 15%. CO fill to 3835. A/W 0Bo/15Bw/2mcfcpd B/4 - 0 BO/23 BW/12 MCFPD.

Additional Data:

T/Queen Formation @ 3346'
T/Penrose Formation @ 3485'
T/Grayburg Zone 1 @ 3650'
T/Grayburg Zone 2 @ 3689'
T/Grayburg Zone 2A @ 3728'
T/Grayburg Zone 3 @ 3761'
T/Grayburg Zone 4 @ 3798'
T/Grayburg Zone 5 @ 3857'
T/Grayburg Zone 6 @ 3903'
T/San Andres Formation @ 3952'
KB @ 3572'

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 214	FIELD: Eunice-Monument	API: 30-025-04507
LOC: 1980 FSL & 1980 FWL, Unit K	SEC: 5	BLK: T21S, R36E	REF NO: FA56490:01
SVY: N.M.P.M.	GL: 3587	CTY/ST: Lea Co., NM	SPUD:
CURRENT STATUS: Producer	KB: 3587	DF:	TD DATE:

10-3/4", 40#/ft
Surf. Pipe set @ 297'
w/ 250 SX cement
Cmt Circ.? Yes
TOC @ surf. by calc.
(13-3/4" hole)

7-5/8" OD, 26#/ft Csg.
set @ 1208' w/ 325 SX
Cmt Circ.? Yes
TOC @ surf. by calc.
(9-7/8" hole)

Csg lk @ 1210-41'. SQZD 2 times: 164 SX & 300 SX. Circ. to surf.

Tubing Detail: 1/7/87

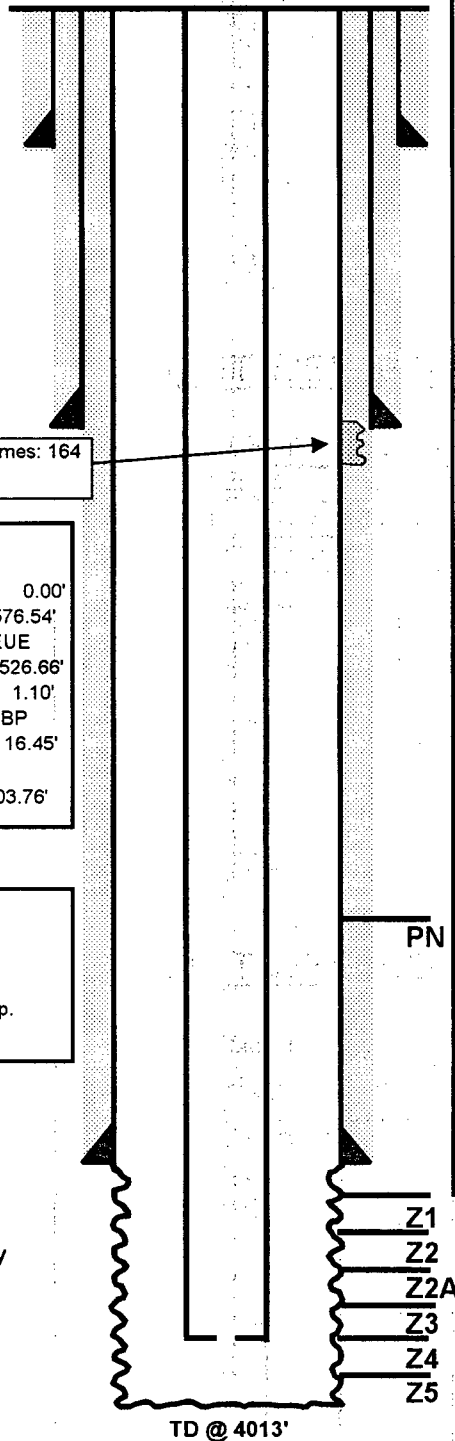
KBTH: 0.00'
118 Jts. 2-7/8" 4.7# 10V: 3576.54'
17 Jts. 2-7/8" 4.7# J-55 8rd EUE
TBG 526.66'
1 API SN 1.10'
1 Mud Anchor w/ Perf Sub & BP 16.45'
Landed @ 4003.76'

Rod Detail: 1/7/87

90 5/8" Rods
66 3/4" Rods
2" X 1-1/2" X 12' RWT-C pmp.

5-1/2" OD, 17#/ft Csg.
set @ 3722' with 300 SX
Cmt Circ.? No
TOC @ +/-1200' by history

FILE: EMSU214WB.xls
DKTS: 11/11/98



Date Completed: 3-12-36

Initial Prod: NA

Initial Formation: Grayburg From: 3722' To: 3894'

Completion Data:

Natural Open Hole completion.

Workover History:

2/39 Set Gas Pkr @ 3825'. Press. in tbg & csg equalized, zone in vert. comm. Set pkr @ 3829'. ACDZ OH w/ 1000 gal. Tst f/ 135 BO, 0 BW/ 248 MCF /GOR 1837. B/4 = f/53 BO/ 1.8 MMCF GOR=33962.
3/55 Find csg leak @ 518-714'. Perf @ 1220' (2 JHPF). Set retr @ 1174' & sqzd w/ 164 SX. Cmt circ. out 7-5/8" X 5-1/2" ann. (50 SX). D/O, test OK. C/O to 3894'. Ran GRN log. Treated OH w/ 3000 gal lease oil w/ 1% ATPET.
9/56 Treated OH w/ 10000 gal gel lse oil & 1 ppg sand. Put well on rod pump. Test: 36 BO/ 3 BW/ 228.8 MCF. GOR=6355. Well CI before.
5/65 Dump acid job 750 gal 15% NeA down csg. Tst: 9 BO/ 3 BW/ B/4=9 BO/ 6 BW.
10/81 Returned TAd well to prod. Tst 19 BO/ 19 BW/ 3 MCF GPD.
12/86 Deepened to 4013' f/ GL. Find csg lk @ 1210'. Btm @ 1241', set RBP @ 3485'. Set rate @ 1170'. Sqzd leak w/ 300 SX. D/O cmt & test to 500 psi, OK. ACDZ OH w/ 4000 gal 15% NeFeA. Put on prod. Tst 0 BO/ 23 BW/ 35 MCF. B/4 = 17 BO/ 0 BW/ 12 MCF.
9/90 Chemical squeezed OH.
6/99 Acidize w 3000 gals 50Q foamed HCL

Additional Data:

T/Penrose Formation @ 3549'
T/Grayburg Zone 1 @ 3737'
T/Grayburg Zone 2 @ 3784'
T/Grayburg Zone 2A @ 3832'
T/Grayburg Zone 3 @ 3877'
T/Grayburg Zone 4 @ 3936'
T/Grayburg Zone 5 @ 3997'
T/Grayburg Zone 6 @ 4057'
T/San Andres Formation @ 4109'
KB @ 3587'

11/26/2002

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL: 215WIC	FIELD: Eunice-Monument	API: 30-025-04508
LOC: 3258 FNL & 660 FWL, Unit L	SEC: 5	BLK: T21S, R36E	REF NO: FA5650:01
SVY: N.M.P.M.	GL: 3594	CTY/ST: Lea Co., NM	SPUD:
CURRENT STATUS: Injector	KB: 3587	DF:	TD DATE:

16", 70#/ft Surface

Pipe set @ 36' w/

50 SX cement

Cmt Circ.? Yes

(20" hole)

100 SX cement down 7-5/8" csg.

7-5/8", 22# Csg.

set @ 1184' w/ 620 SX

Cmt Circ.? Yes

TOC @ surf. by calc.

(9-7/8" hole)

Csg leak @ 1385-1416'. Sqzd w/ 185 SX cement.

Csg leak @ 1976-2010'. Sqzd w/ 400 SX cement.

Tubing Detail:

KBTH:

7.00'

117 Jts. 2-3/8" 4.7# J-55 IPC:

5.5" LOK-SET PKR

Landed @ 3650'

Csg leak @ 3546-3770'. Sqzd w/ 75 SX cement.

3722-24'

3730-32'

5-1/2", 17#/ft K-55 Csg.

set @ 3767' w/ 300 SX

Cmt Circ.? No

TOC @ 448' by calc.

(6-3/4" hole)

Fill @ 4000'

TD @ 4015'

2-3/8" 4.7# IPC Tubing

QN

PN

Z1

Z2

Z2A

Z3

Z4

Z5

Date Completed: 9-15-36

Initial Prod: N/A

Initial Formation: Grayburg Fr: 3767' To: 3890'

Completion Data:

ACDZ OH 3767-3890' w/ 2000 gal 14% acid.

Workover History:

12/42 Retrieve & reset pkr. Tst F/61.5 BO/ 0 BW/ GOR 5414 in 24 hrs.

6/56 Installed Pumping equip. Tst 39 BO/ 0 BW/ GOR 1356.

12/72 500 gal dump acid 15% NeA. Tst 16 BO/ 3 BW. B/4: 16 BO/ 3 BWPD.

2/81 750 gal dump acid 15% NeA. Tst: 13 BO/ 1 BW. B/4: 15 BO/ 1 BWPD.

8/86 XO WH. CO & deepen to 4015'. Ran logs. Perf 3730-32 & 3722-24 (2 JHPF). ACDZ new perms w/ 1000 gal 15% NeFeA & 12 RCNBs. Swb 0 BO/ 10 BW. Swb dry 3 runs.

Tried to acdz OH but comm. w/ perms. ACDZ entire interval w/ 4500 gal & GRS block. Swb 8 BW 5 runs & dry. Backside wouldn't load w/ inj packer. Fnd csg lk @ 1980-2010'. SQZD lk w/ 50 SX cmt. D/O cmt. Test csg OK. GIH w/ Baker TSN pkr on 2-3/8" J55 4.7# IPC tbq; backside wouldn't test. Fnd csg lk @ 1976-2010' & sqzd w/ 200 SX cmt. Tie onto

intermediate 7-5/8" pump 100 SX cmt. GIH, D/O cmt. Test csg OK. GIH w/ Baker TSN & 2-3/8" IPC tbq. Circ. pkr. fluid. Set pkr. @ 3608'. Put on inj. 11/7/86 @ 723 BWIPD @ 0 psi.

5/92 Injection profile logger TD @ 4000' indicating 15' fill.

11/93 ACDZ w/ 4000 gal 15% NeFe. Inj: 936 BWIPD @ 496 psi (12/93) B - 216 BWD @ 676 psi.

10/96 ACDZ w/ 5000 Resisol II.

1/2000 Sqzd casing 3546-3770 w/ 75 sks

3/2001 Acidized with CTU 3000 Gals

11/2001 Isolated casing leak 1385-1416. Perf 1408' Set CICR at 1350' Sqz75 sx resqz 110 sx. DO to 1496 Ran packer and tubing and put well on injection

Additional Data:

T/Queen Formation @ 3384'

T/Penrose Formation @ 3534'

T/Grayburg Zone 1 @ 3716'

T/Grayburg Zone 2 @ 3764'

T/Grayburg Zone 2A @ 3819'

T/Grayburg Zone 3 @ 3862'

T/Grayburg Zone 4 @ 3907'

T/Grayburg Zone 5 @ 4007'

T/Grayburg Zone 6 @ 4057'

T/San Andres Formation @ 4090'

KB @ 3587'

FILE: EMSU215WB.xls

DKTS: 11/10/98

Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 216
 LOC: 4620' F N L & 660' F E L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: I ST: N.M.
 (formerly: State "EE" #1)

FORM: Grayburg / San Andres DATE: _____
 GL: 3576' STATUS: Producer
 KB: 3588' API NO: 30-025-08704
 DF: _____ CHEVNO: FA 9768:01

Date Completed: 5/26/1936
 Initial Production: 7930 BOPD / 0 BWPD
 Initial Formation: Grayburg
 FROM: 3767' to 3886'

Completion Data

Natural OH completion.

Subsequent Workover or Reconditioning:

7/45 PB w/ plastic & gravel 3796'. D/O to 3792'.
 10/58 CO OH to 3878'. ACDZ 3826-44' w/ 500 gals acid. ACDZ 3799-3817' w/ 1000 gals.
 2/60 String shot OH & ACDZ w/ 500 gals.
 11/61 String shot OH & ACDZ w/ 1000 gals.
 8/66 C/O to 3878'. ACDZ w/ 2000 gals.
 2/69 String shot OH & ACDZ w/ 3000 gals.
 4/71 Acdz w/ 1000 gals.
 5/71 Acdz w/ 3000 gals.
 11/71 Acdz w/ 3000 gals.
 12/72 Acdz w/ 3000 gals.
 1/76 Acdz w/ 3000 gals.
 5/77 PB to 3828' w/ sand & 15' Hydromite. Frac w/ 1500 gals.
 2/88 CO & deepen to 3988'. Put on prod. Test: 12 BO / 214 BW / 52 MCFGPD. FL = 64' ASN. B/4 test: 11 BO / 155 BW / 25 MCFGPD.
 6/89 Chemical squeezed.
 9/90 Chemical squeezed.

Additional Data:

T/Queen Formation @ 3394'
 T/Penrose Formation @ 3551'
 T/Grayburg Zone 1 @ 3752'
 T/Grayburg Zone 2 @ 3803'
 T/Grayburg Zone 2A @ 3850'
 T/Grayburg Zone 3 @ 3895'
 T/Grayburg Zone 4 @ 3942'
 T/Grayburg Zone 5 @ 4030'
 T/Grayburg Zone 6 @ 4075'
 T/San Andres Formation @ 4115'
 KB @ 3588'

PROD LOG (11/87) - Tst: 12 BO / 169 BW / 21 MCFG. Major entry - approx. 80% f/ 3770-3791'. approx. 20% fr 3830-2991' mostly water.

12-1/2" OD
 50# CSG
 Set @ 221' W/ 150 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

9-5/8" OD
 36# CSG 8rd
 Set @ 1207' W/ 450 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.

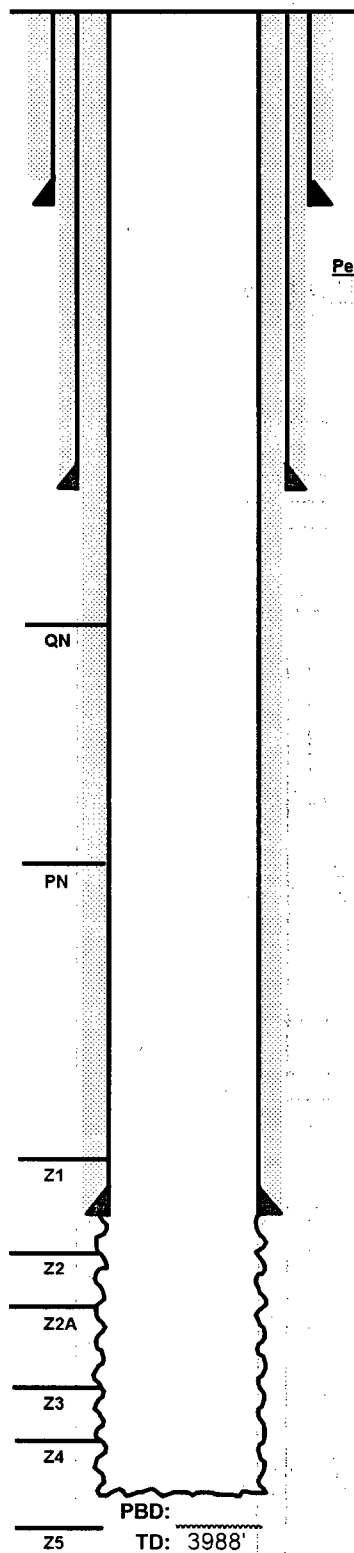
Tubing Detail: 2/11/88

Original KBTH: 12.00'
 12 Jts. 2-7/8" J-55 6.5# EUE 8rd tbg: 368.86'
 6 Jts. 2-7/8" J-55 6.5# EUE 8rd tbg: 186.24'
 104 Jts. 2-7/8" H-40 EUE 10V tbg: 3267.73'
 3 Jts. 2-7/8" J-55 6.5# EUE 8rd tbg: 93.25'
 2-7/8" API Seating Nipple: 1.10'
 Mud Anchor orange peeled & slotted: 27.75'
 Landed @: 3861.76'

Rod Detail: 2/11/88

1- Polished Rod
 70 - 3/4" Sucker Rods
 55 - 7/8" Sucker Rods
 1- 4' X 7/8" Rod Sub
 2-1/2" X 16' RWBC Pump w/ Gas Anchor

7" OD
 24# CSG 10rd
 Set @ 3767' W/ 225 SX
 Cmt circ.? No
 TOC @ 2186' by calc.



FILE: EMSU216WB.XLS

printed: 11/27/2002

Chevron



WELL DATA SHEET

LEASE: EMSU WELL: 217WI
 LOC: 3197' F N L & 2158' F E L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: J ST: N.M.

FORM: Grayburg / San Andres DATE: _____
 GL: 3563' STATUS: Injector
 KB: 3580' API NO: 30-025-29911
 DF: _____ CHEVNO: IH 4133:01

Date Completed: 8/1/1987
 Initial Injection: 720 BWIPD @ 0 psig
 Initial Formation: Grayburg zones 1 - 4
 FROM: 3728' to 4028'

Completion Data

Perf 3728-64, 3770-3812, 3822-3856, 3880-3922, 3928-3954 and 3992-4028' (1 JHPF). ACDZ 3880-4028' w/ 75,000 gals 15% NeFe HCl. ACDZ perfs 3728-3856' w/ 5600 gals 15% NeFe HCl. Run inj. equipment.

Subsequent Workover or Reconditioning:

12/22/98 Set pkr @ 3767' - pump 2.5 BPM @ 250# psi to chk - NO COMM. RIH w/ drift tool on sand line to 3800'. Run polybore liner fr 3680' to 3790'. Test tbg., set pkr & RTI.

Additional Data:

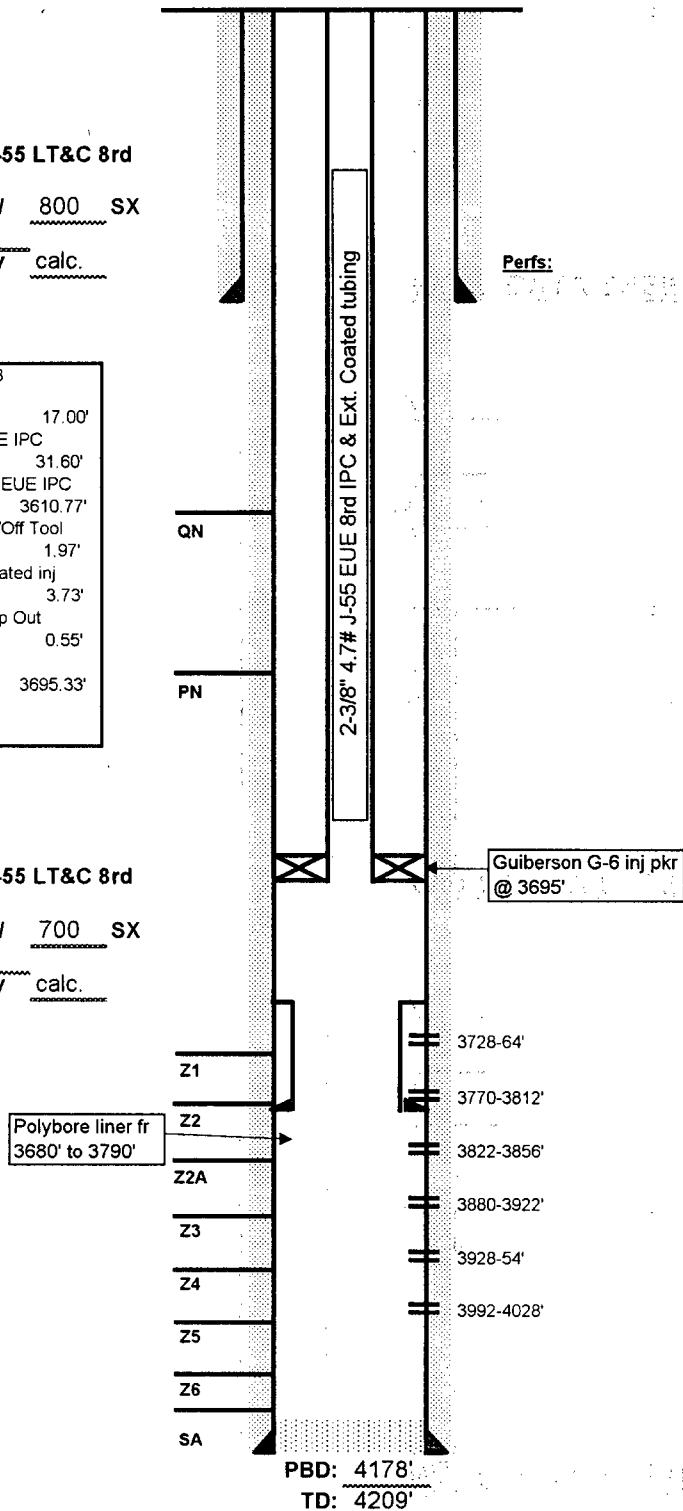
T/Queen Formation @ 3374'
 T/Penrose Formation @ 3546'
 T/Grayburg Zone 1 @ 3742'
 T/Grayburg Zone 2 @ 3785'
 T/Grayburg Zone 2A @ 3855'
 T/Grayburg Zone 3 @ 3907'
 T/Grayburg Zone 4 @ 3959'
 T/Grayburg Zone 5 @ 4028'
 T/Grayburg Zone 6 @ 4074'
 T/San Andres Formation @ 4112'
 KB @ 3580'

8-5/8" OD K-55 LT&C 8rd
 32# CSG
 Set @ 1150' W/ 800 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (12-1/4" hole)

Tubing Detail: 12/30/98

KBTH: 17.00'
 1 Jt. 2-3/8" 4.7# J-55 EUE IPC
 & Ext Coated Tbg: 31.60'
 117 Jts. 2-3/8" 4.7# J-55 EUE IPC
 tbg: 3610.77'
 1 5-1/2" X 2-3/8" P/C On/Off Tool
 w/ 1.78 "F" Nipple: 1.97'
 Guiberson G-6 plastic coated inj
 pkr: 3.73'
 2-3/8" Nickle Plated Pump Out
 Plug: 0.55'
 Landed @ 3695.33'

5-1/2" OD K-55 LT&C 8rd
 15.5# CSG
 Set @ 4209' W/ 700 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (7-5/8" hole)



FILE: EMSU217WB.XLS

PBD: 4178'
 TD: 4209'

Chevron



CURRENT WELL DATA SHEET

LEASE: EMSU WELL: 218
 LOC: 3300' F N L & 1980' F W L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: K ST: N.M.

FORM: Grayburg / San Andres DATE:
 GL: 3558' STATUS: SI Producer
 KB: 3568' API NO: 30-025-04657
 DF: CHEVNO: FA 5798:01

Date Completed: 10/1/1936
 Initial Production: 990 BOPD / 0 BWPB
 Initial Formation: Grayburg
 FROM: 3709' to 3867' GOR 1554

Completion Data

None Available.

Subsequent Workover or Reconditioning:

4/45 ACDZ OH 500 gals, PB to 3848'.
 6/60 SS OH & ACDZ w/ 1000 gals.
 4/64 SS OH & ACDZ w/ 1500 gals.
 10/71 Temporarily Abandoned.
 5/85 CO fill 3839-3867'. SQZD csg leak 3508-3665' w/ 45 SX.
 ACDZ OH w/ 3500 gals 15% HCl. ISIP - 300#. Swb 8 hrs.
 Chem sqzd. Install PU. A/W 12 BO / 208 BW / 31 MCF. GOR 2583. B/4 - SI.
 9/88 CO w/ air 3847-55'. Deepen w/ 6-1/8" bit to 3973' (logger TD). Log w/ GR, CCL, CNL. RIH w/ PE. A/W - 15 BO / 371 BW / 63 MCF. GOR 4200. B/4 - 8 BO / 220 BW.
 12/88 POH w/ PE. Ran 4-1/2" liner to 3968'. TOL @ 3446'.
 CMTD w/ 80 SX. Tagged TOL @ 3446' (no cmt). Test to 500 psig - OK. DOC 3924-3928'. Ran GR, CCL, CBL to 3250'.
 Perf w/ 3-7/8" gun 3908-12', 3899-3902, 3870-75, 3854-60 (25 holes). ACDZ w/ 750 gals using PPI tool - 4 settings. Bottom two set comm. AVG: 1 BPM @ 2150 psi. Swb SFL - 1600 FS. EFL - 2400 FS. Rec 2 BO/ 55 BW/ 12 runs. FeR 20 BPH.
 RTP. A/W - 5 BO/ 164 BW/ 15 MCF. GOR 3000. B/4 - 15 BO/ 371 BW/ 63 MCF. GOR 4200.
 6/89 Chemical treat.
 9/90 Chemical treat.
 10/14/90 Perfs 3822-36' (2 JHPF). ACDZ perfs 3822-36' w/ 1150 gals 15% NeFe HCl w/ 39 Bs. ISIP - 0. Swb SFL - 1600 FS, EFL - 2600 FS. FeR - 19.2 BPH. Rec' 131 BW / trace oil.
 SQZD perfs 3822-36' w/ 131 SX cmt. DOC to 3928'. Reperf w/ 1 JHPF 3854-60, 3870-78, 3899-3902, 3908-12. Acdz w/ 1000 gals 15% NeFe w/ 39 Bs. ISIP - 400 psig. Swb SFL - 500' FS, EFL - 3400' FS. Rec'd 54 BW/ 10 runs. Run PE. TOTP. A/W - 0 BO/ 127 BW/ 1 MCFG. B/4 - 4 BO/ 241 BW/ 30 MCFG. GOR 7500.
 5/30/2001 Well TA'd
Additional Data:
 T/Queen Formation @ 3412'
 T/Penrose Formation @ 3584'
 T/Grayburg Zone 1 @ 3764'
 T/Grayburg Zone 2 @ 3811'
 T/Grayburg Zone 2A @ 3882'
 T/Grayburg Zone 3 @ 3916'
 T/Grayburg Zone 4 @ 3960'
 T/Grayburg Zone 5 @ 4045'
 T/Grayburg Zone 6 @ 4095'
 T/San Andres Formation @ 4140'
 KB @ 3568'

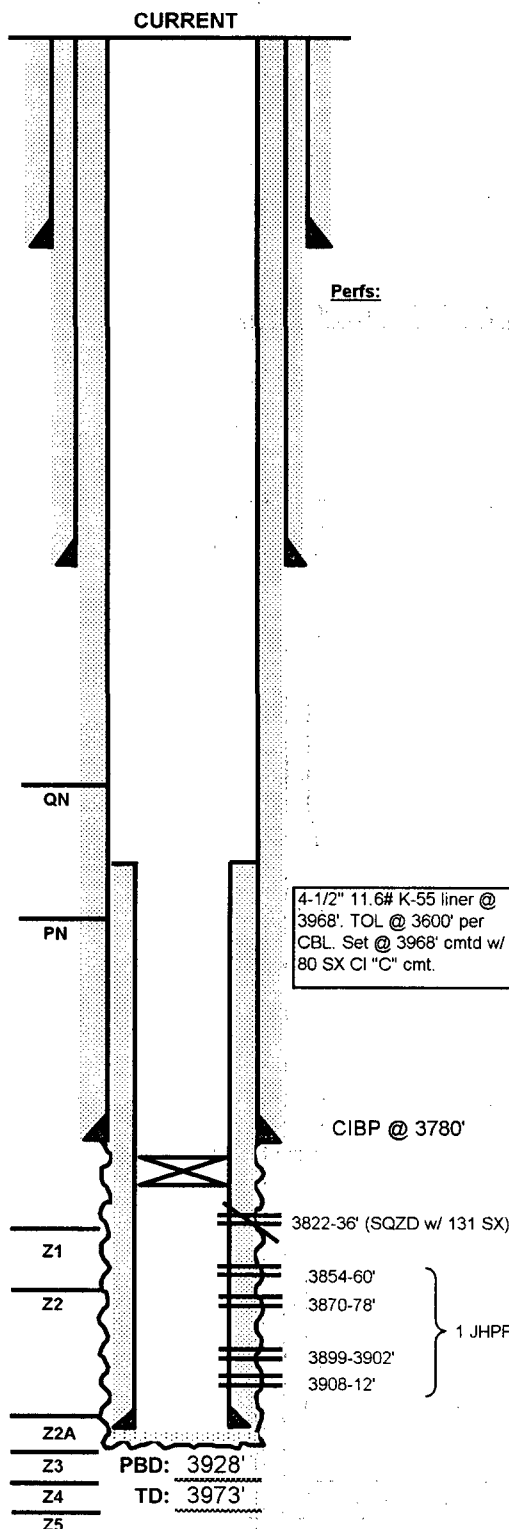
12-1/2" OD
 CSG
 Set @ 230' W/ 150 SX
 Cmt circ.? No
 TOC @ surf. by calc.
 (14-3/4" hole)

Tubing Detail: 12/24/88
 Original KBTH: 10.00'
 108 Jts. 2-7/8" J-55 6.5# EUE 8rd
 tbg: 3415.72'
 2-1/2" API Std SN 8rd: 1.10'
 XO: 2-7/8" 8rd X 2-3/8" RFC-8 FJ: 2.10'
 16 Jts. 2-3/8" 4.7# J-55 RFC-8: 477.20'
 Landed @: 3906.12'

9-5/8" OD
 36# CSG 8rd
 Set @ 1161' W/ 400 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (10-3/4" hole)

Rod Detail: 12/24/88
 1-1/4" X 22' coated Polished Rod
 2' X 3/4" HS
 83 - 25' X 3/4" Gr KD Rods (steel)
 52 - 25' X 7/8" Rods (steel)
 2-1/2" X 1-3/4" X 16 X 18 X 20 RHBC
 w/ 12' X 1-1/4" GA

7" OD
 24# CSG 10rd
 Set @ 3709' W/ 275 SX
 Cmt circ.? No
 TOC @ 2019' by calc.
 (8-3/4" hole)



FILE: EMSU218WB.XLS

Chevron



TA WELL DATA SHEET

LEASE: EMSU WELL: 219
 LOC: 3222' F N L & 781' F W L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: L ST: N.M.

FORM: Grayburg / San Andres DATE: 6/4/2001
 GL: 3554.5' STATUS: TA'd Producer
 KB: 3568' API NO: 30-025-30225
 DF: CHEVNO: TK 4274:01

Date Completed: 7/1/1988
 Initial Production: 3 BOPD / 97 BOPD
 Initial Formation: Grayburg
 FROM: 3986' to 4038'

Completion Data

Perf 3996-98, 3946-48, 3938-40, 3916-18, 3909-11, 3898-3900, 3888-90' (2 JHPF). ACDZ w/ 5000 gals 15% NeFeA & 45 RCNBs.
 4/2/86 Swab perfs 3888-3996 f/ 2.5 hrs - 10 runs. Rec'd 48 BW/ 0 BO. SFL=1500' EFL=2100'. FeR 19 BPH

Subsequent Workover or Reconditioning:

7/88 Perf 3896-3906 & 3924-34 (1 JHPF). ACDZ w/ 1000 gals 15% NeFe HCl w/ 30 Bs. ISIP - 300 psig. Swab 3924-34'. Rec'd 3 BO/ 154 BW/ 10 hrs. Swab 3896-3906; rec'd 8 BO/ 11 BW/ 9 hrs. Perf 3843-54, 3864-76 (1 JHPF). ACDZ w/ 1200 gals 15% NeFe HCl w/ 35 Bs. ISIP - vacuum. Selectively swab test SQZD 3843-76' w/ 250 SX cmt; DOC. Perf 3738-3754 (1 JHPF). ACDZ w/ 900 gals 15% NeFe HCl. ISIP - 150 psi. Swb test. Rec'd 5 BO/ 56 BW/ 5 hrs. SFL - 2000' EFL - 2800'. RIH w/ PE. TOTP.
 8/88 Chemical treat.

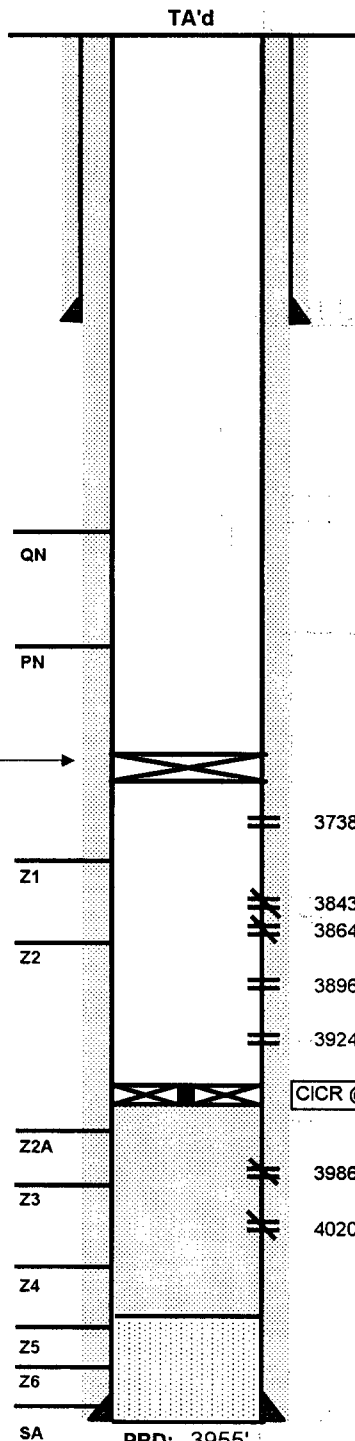
6/01 LD rods, NDWH, NU BOPE, TOH w/prod tbg. RIH & set CIBP @ 3700', Circ Pkr FI, ran MIT w/no press loss, for 30 mins 520# tst.

Additional Data:

T/Queen Formation @ 3478'
 T/Penrose Formation @ 3653'
 T/Grayburg Zone 1 @ 3832'
 T/Grayburg Zone 2 @ 3879'
 T/Grayburg Zone 2A @ 3976'
 T/Grayburg Zone 3 @ 4008'
 T/Grayburg Zone 4 @ 4043'
 T/Grayburg Zone 5 @ 4133'
 T/Grayburg Zone 6 @ 4197'
 T/San Andres Formation @ 4247'
 KB @ 3568'

8-5/8" OD
 24# CSG 8rd K-55 ST&C
 Set @ 1263' W/ 700 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (12-1/4" hole)

OCD TA Project -
 Set CIBP @ 3700', Circ
 w/Pkr FI.



5-1/2" OD
 15.5# CSG 8rd K-55 LT&C
 Set @ 4252' W/ 800 SX
 Cmt circ.? Yes
 TOC @ surf. by calc.
 (7-7/8" hole)

FILE: EMSU219WB.XLS



WELL DATA SHEET

LEASE: EMSU

WELL: 220

FORM: Grayburg / San Andres

DATE:

LOC: 3300' F S L & 600' F W L

SEC: 6

GL: 3544'

STATUS: Producer

TOWNSHIP: 21S

CNTY: Lea

KB: 3554'

API NO: 30-025-08705

RANGE: 36E UNIT: M

ST: N.M.

DF:

CHEVNO: FA 9769.01

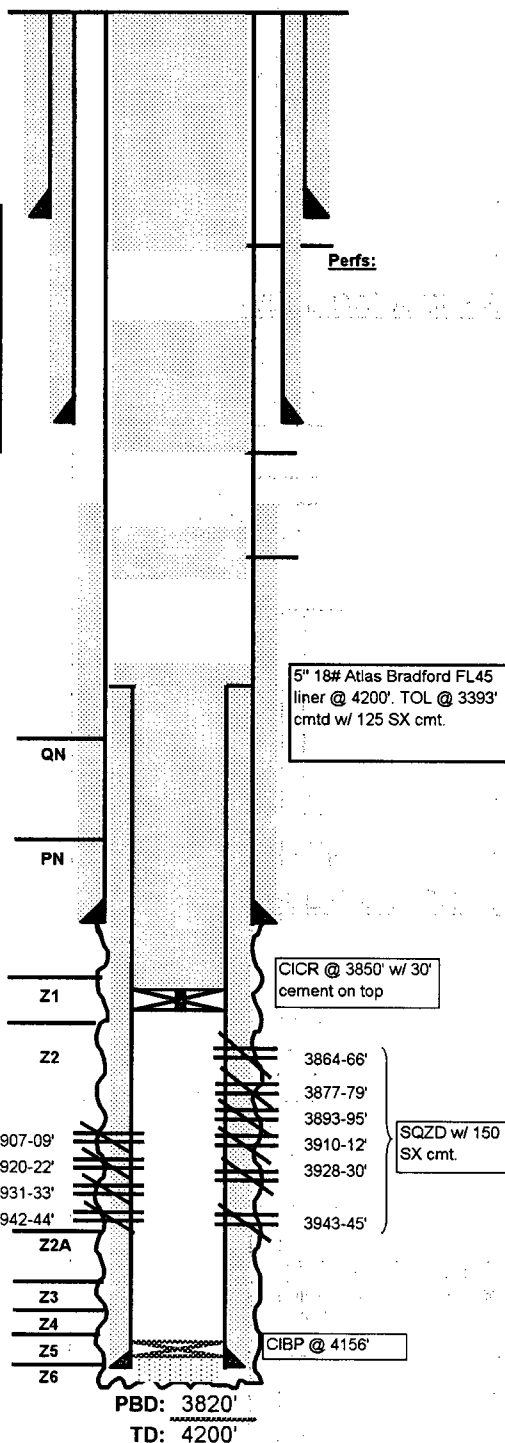
(formerly: State "F" #2)

12-1/2" OD
CSG
Set @ 232' W/ 150 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(14-3/4" hole)

P&A Detail
Spot 75 sx plug 3820-3350' tag 3336'
Perf 4 spf @ 2700' unable to sqz spot 40 sx
plug 2750-2800' tag 2463'
Perf 4 spf @ 1300' sqz 75sx tag 1041'
Perf 4 spf @ 300' sqz 110 sx 300 to surf tag
40'
fill 40' to surf w 10 sx

9-5/8" OD CSG
Set @ 1231' W/ 375 SX
Cmt circ.? Yes
TOC @ surf. by calc.
(10-3/4" hole)

7" OD
CSG 10rd
Set @ 3725' W/ 225 SX
Cmt circ.? No
TOC @ 2342' by calc.
(8-3/4" hole)



Date Completed: 11/19/1936

Initial Production: 2280 BOPD / 0 BWPD

Initial Formation: Grayburg

FROM: 3725' to 3851' / GOR 1206

Completion Data

11/36 Natural completion.

Subsequent Workover or Reconditioning:

10/64 Temporarily Abandoned.

5/3/85 CO fill 3770-3790'. ACDZ OH 3725-3851' w/ 3500 gals
15% NeFe HCl w/ 1000# Bs. Swab test 5 BO/ 280 BW/ 10 hrs.
Chem treat.

9/26/85 Well test - 0 BO/ 194 BW. TSTM mcfg.

10/85 Well shut-in.

2/86 Deepen to 4200'. Log w/ GR, CNL, LDT. Run 5" liner & set
liner @ 4200'. Log 4185-3393' w/ CBL, CCL. Perf 3864-66,
3877-79, 3893-95, 3910-12, 3928-30 & 3943-45 (2 JHPF).
ACDZ w/ 5200 gals 15% NeFe HCl. Chem sqz. RTP. Test: 320
BWPD/ 0 BOPD/ 10 MCFG.

3/86 Chemical treat.

4/9/86 320 BWPD / 0 BOPD / 8 MCFGPD.

4/14/86 Knock CIBP to 4156' to test lower perfs. SQZD 3864-
3945' w/ 150 SX cmt. Perf 3907-3944' (116 holes). ACDZ w/
1000 gals 15% NeFe. Swb 6.5 hrs. Rec'd 7 BO/ 137 BW. SFL -
3300'. FFL - 2000'. RIH w/ PE.

2/90 Set CICR @ 3850'. SQZD perfs 3907-3944' w/ 75 SX cmt.
Well Tad.

6/2002 P&A

Additional Data:

T/Queen Formation @ 3436'

T/Penrose Formation @ 3627'

T/Grayburg Zone 1 @ 3804'

T/Grayburg Zone 2 @ 3854'

T/Grayburg Zone 2A @ 3956'

T/Grayburg Zone 3 @ 4007'

T/Grayburg Zone 4 @ 4046'

T/Grayburg Zone 5 @ 4129'

T/Grayburg Zone 6 @ 4180'

T/San Andres Formation @ 4225'

KB @ 3554'



WELL DATA SHEET

LEASE: EMSU WELL: 221WI
LOC: 4620' F N L & 1980' F W L SEC: 6
TOWNSHIP: 21S CNTY: Lea
RANGE: 36E UNIT: ST: N.M.
formerly State "F" #1

FORM: Grayburg / San Andres DATE:
GL: 3560' STATUS: Injector
KB: 3560' API NO: 30-025-08706
DF: CHEVNO: FA 9770:01

Date Completed: 8/30/1936
Initial Production: 7 1544 BOPD / 0 BWPD / GOR 6046
Initial Formation: Grayburg
FROM: 3708' to 3860'

Completion Data

No information.

Subsequent Workover or Reconditioning:

7/45 PB to 3775' w/ plastic. ACDZ w/ 5000 gal acid.
8/46 D/O plastic plug to 3815'.
6/47 ACDZ w/ 500 gals 15% acid. A/W 50 BO @ 270 BW.
10/11/60 SS OH. ACDZ w/ 1500 gals. A/W 5 BO/ 332 BW/ B/\$ - 3 BO/ 158 BWPD.
6/26/61 D/O to 3860'. ACDZ w/ 500 gals. A/W 2 BO/ 479 BW/ B/4 - 4 BO/ 294 BW
4/2/62 Temporarily Abandoned.
5/18/77 Frac perfs 3490-3630' w/ 40,000 gals foam and 1-1.75 #/gal sand (this work from previous diagram. unavailable in file).
3/86 CO to 3863'. Test csg to 500 psi. Turn well over to unit. SQZD perfs 3490-3630'.
2/88 CO WH. Deepen to 4020'. Log w/ GR, CCL, CNL, Cal. RIH w/ TSN pkr on 2-3/8" IPC tbg. Set pkr @ 3645'. PWOL: 720 BWPD on vac.
8/96 ACDZ w/ 6000 gals 15% Resisol.

Additional Data:

T/Queen Formation @ 3333'
T/Penrose Formation @ 3541'
T/Grayburg Zone 1 @ 3726'
T/Grayburg Zone 2 @ 3774'
T/Grayburg Zone 2A @ 3863'
T/Grayburg Zone 3 @ 3918'
T/Grayburg Zone 4 @ 3960'
T/Grayburg Zone 5 @ 4024'
T/Grayburg Zone 6 @ 4080'
T/San Andres Formation @ 4122'
KB @ 3560'

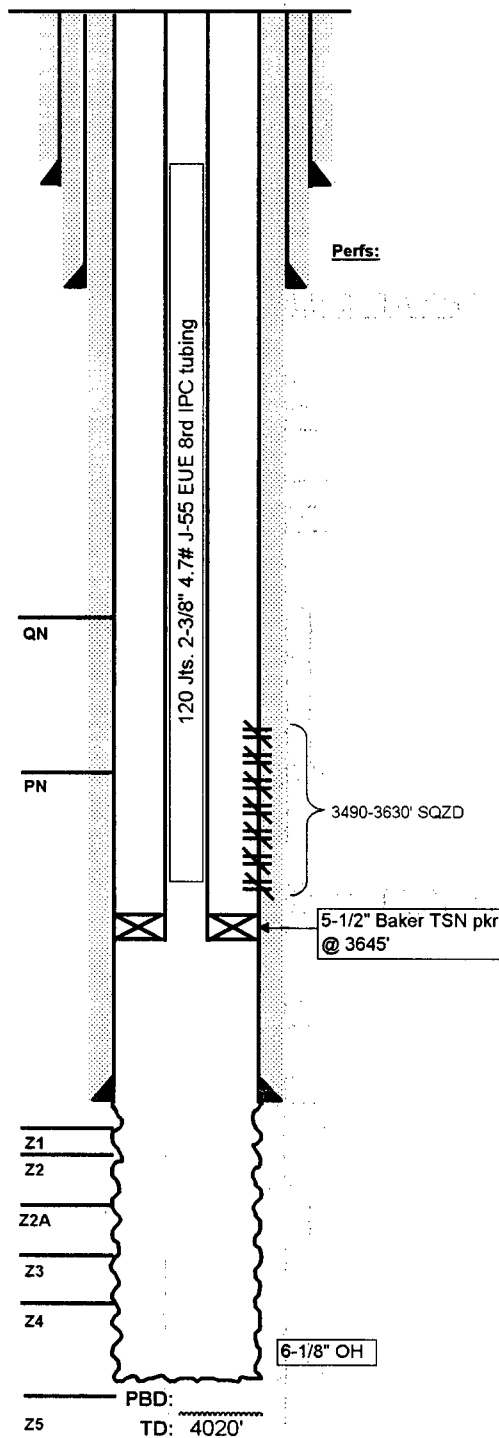
12-1/2" OD
CSG
Set @ 232' W/ 150 SX
Cmt circ.? yes
TOC @ 63' by calc.
(17-1/2" hole)

9-5/8" OD
36# CSG 8rd
Set @ 1204' W/ 375 SX
Cmt circ.? yes
TOC @ surf. by calc.
(11-1/2" hole)

Tubing Detail: 2/28/88

KBTH: 0.00'
1 Jt. 2-3/8" 4.7# J-55 EUE IPC
tbg w/ Short Upset: 31.16'
119 Jts. 2-3/8" 4.7# J-55 EUE IPC
tbg: 3638.82'
Baker TSN-II ret. csg. pkr 5.94'
Landed @ 3644.76'

7" OD
24# CSG 10rd
Set @ 3708' W/ 250 SX
Cmt circ.? no
TOC @ 2171' by calc.
(8-3/4" hole)



FILE: EMSU221WB.XLS



WELL DATA SHEET

LEASE: EMSU WELL: 223WIC
 LOC: 3300' F S L & 660' F E L SEC: 6
 TOWNSHIP: 21S CNTY: Lea
 RANGE: 36E UNIT: P ST: N.M.
 formerly H.T. Orcutt /NCT-A/ #4

FORM: Grayburg / San Andres DATE: _____
 GL: 3592' STATUS: Injector
 KB: 3592' API NO: 30-025-04530
 DF: _____ CHEVNO: FA 5672:01

Date Completed: 6/27/1936
 Initial Production: 7 300 BOPD / 0 BWPD / GOR 2333
 Initial Formation: Grayburg
 FROM: 3738' to 3902'

Completion Data

ACDZ w/ 1000 gals 14% Dowell X chased w/ 15 BO. ACDZ w/ 3000 gals 14% Dowell X chased w/ 25 BO.

Subsequent Workover or Reconditioning:

10/55 Install pumping equip. 17 BO/10 BW
 2/64 ACDZ w/ 500 gals 15% NeFe acid.
 4/74 Acid scale treat w/ 1000 gals 15% NEA.
 6/87 Deepen to 3967'. Run OH logs; convert to injection. Dug up cellar & repipe csg valve to surface. Put on inj. @ 720 BWIPD @ 0 psig.
 10/92 Found casing lk @ 2079-2143'. GHIH, tag fill @ 3934'. CO to TD. ACDZ OH w/ 3000 gal 15% NeFeA. GIH & set 5-1/2" Baker TSN pkr @ 3689'. RU Halliburton & pump 50 bbls pkr fluid, then 10-12 bbls of ANGARD (GEL SQUEEZETYPE MAT'L). Displace w/ 30.5 bbls pkr fluid. Test ann. to 480 psi. Lost dn to 440 psi in 30 mins. RTI. Tst: 576 BWIPD @ 40 psig.
 10/94 ACDZ w/ 4500 gals 15% NeFe HCl w/ Pentol 100 system. A - 1697 BWIPD @ 145 psi B - 504 BWIPD @ 650 psi.
 1/28/98 Coiled tbg unit to ACDZ OH w/ 2660 gals 15% 90/10 Resisol II w/ 70Q foamed 10# brine down the annulus. TOTPS for inj.
 6/2000 Ran isolation packer in open hole.
 10/2000 Acidize with 2500 gals using CTU

Additional Data:

T/Queen Formation @ 3362'
 T/Penrose Formation @ 3514'
 T/Grayburg Zone 1 @ 3699'
 T/Grayburg Zone 2 @ 3752'
 T/Grayburg Zone 2A @ 3810'
 T/Grayburg Zone 3 @ 3870'
 T/Grayburg Zone 4 @ 3915'
 T/Grayburg Zone 5 @ 3988'
 T/Grayburg Zone 6 @ 4040'
 T/San Andres Formation @ 4074'
 KB @ 3592'

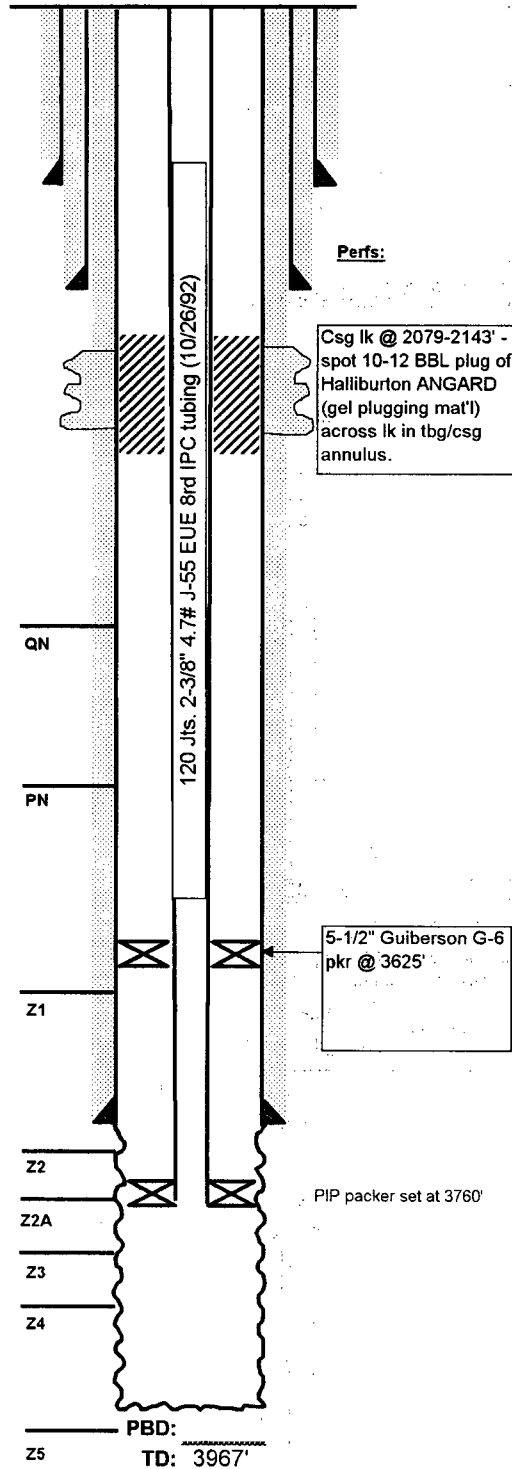
10-3/4" OD
 32# CSG
 Set @ 350' W/ 250 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (13-3/4" hole)

7-5/8" OD
 26# CSG 8rd
 Set @ 1205' W/ 300 SX
 Cmt circ.? yes
 TOC @ surf. by calc.
 (9-7/8" hole)

Tubing Detail: 10/26/92

KBTH: 6.50'
 120 Jts. 2-3/8" 4.7# J-55 EUE IPC tbg:
 3680.85'
 Guiberson XL O/O w/ 1.78 1.96'
 Baker TSN -2 w/ 34,000 Shear
 5.40'
 Baker Pump Out Plug
 0.50'
 Landed @ 3695.21'

5-1/2" OD
 17# CSG 10rd
 Set @ 3701' W/ 300 SX
 Cmt circ.? no
 TOC @ 419' by calc.



FILE: EMSU223WB.XLS

CURRENT WELLBORE DIAGRAM

LEASE: EMSU	WELL 224	FIELD: Eunice-Monument	API: 30-025-04506
LOC: 3300 FSL & 660 FWL, Unit M	SEC: 5	BLK: T21S, R36E	REF NO: FA5648:01
SVY: N.M.P.M.	GL: 3597	CTY/ST: Lea Co., NM	SPUD:
CURRENT STATUS: Producer	KB: 3597	DF:	TD DATE:

10-3/4", 40#/ft Surface
Pipe set @ 344' w/
250 SX cement
Cmt Circ.? Yes
TOC @ surf. by calc.
(13-3/4" hole)

7-5/8", 26# K-55 Csg.
set @ 1215' w/ 350 SX
Cmt Circ.? Yes
TOC @ surf. by calc.
(13-3/4" hole)

Tubing Detail: 8/9/96

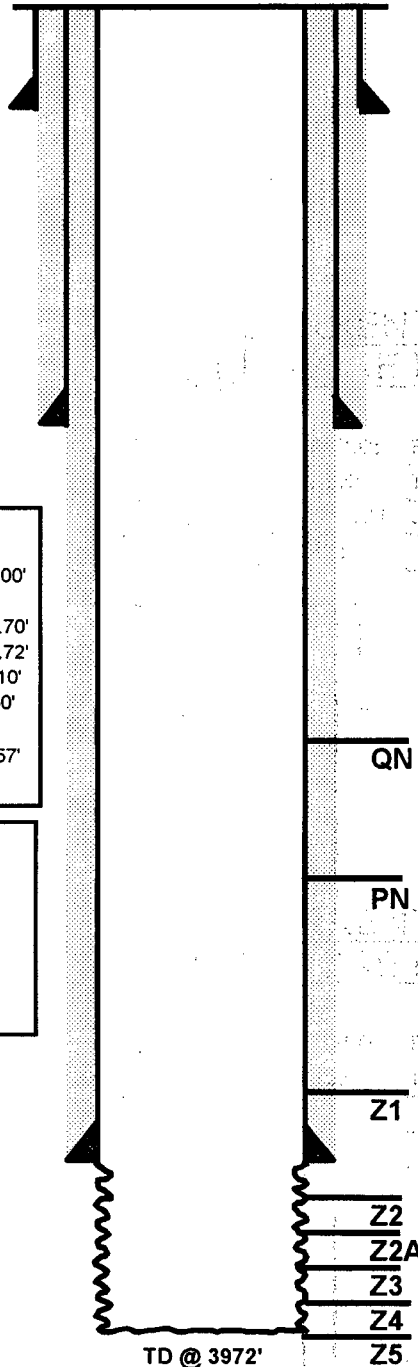
KBTH:	0.00'
113 Jts. 2-3/8" 6.5# J-55 Tbg:	3676.70'
8 Jts. J-55 Tbg	255.72'
2-7/8" API SN	1.10'
2-7/8" Slotted MAJ	15.30'
Landed @	3951.57'

Rod Detail: 8/9/96

25' Polished Rod
1-6' & 4' 7/8 SUB
66 7/8" "D" Rods
90 3/4" "D" Rods
2-1/2 X 2 X 24' Pump

5.5", 17#/ft K-55 Csg.
set @ 3771' w/ 350 SX
Cmt Circ.? Yes
TOC @ surf. by calc.
(13-3/4" hole)

FILE: EMSU224WB.xls
DKTS: 11/10/98



Date Completed: 1-15-36
Initial Prod: 616 BOPD / 0 BWPD / GOR 1136
Initial Formation: Grayburg Fr: 3771' To: 3895'
Completion Data:
1/8/36 Acidized w/ 2000 gal 60% Acid
1/13/36 Acidized w/ 3000 gal 60% Acid
Workover History:
8/26/56 Install prod. equipment.
2/7/66 ACDZ w/ 500 gal 15% NE. Tst: 24 BO/ 8 BW B/4-13 BO / 3 BW.
2/19/69 ACDZ via csg w/ 500 gals 15% NE.
3/11/69 Chem squeeze w/ 60 gals.
3/23/71 Chem sqz w/ 60 gals.
2/8/73 Chem sqz w/ 120 gals.
3/27/74 Chem sqz w/ 120 gals.
5/9/74 ACDZ w/ 4000 gal 15% NE w/ GRS & BAF to divert ISIP - vac test 17 BO/ 15 BW B/4 - 8 BO/ 1 BW.
10/15/75 Chem sqz w/ 175 gals.
5/13/77 Chem sqz w/ 165 gals.
3/22/79 Chem sqz w/ 120 gals.
10/15/80 ACDZ w/ 750 gals 15% NE. Tst: 17 BO/ 13 BW/ B/4 - 8 BO/ 6 BW
9/15/81 ACDZ w/ 750 gals 15% NE. Tst: 8 BO/ 5 BW/ B/4 - 6 BO/ 4 BW
2/12/82 ACDZ w/ 1000 gals 15% NE.
11/2/86 Deepen w/ 4-3/4" bit to 3972'. Log w/ GR, CNL, CCI, caliper. ACDZ OH - 3771-3972 w/ 4000 gals 15%. Swb - rec 5 BW SFL-3000, EFL-3700. Chem Sqz, RTP. Test: 1 BO/ 3 BW/ 4 MCF.
10/90 ACDZ w/ 1000 gals NeFe, tst: 1 BO/ 2 BW/ 1 MCF. B/4 work: 1 BO/ 4 BW/ 1 MCFG
8/96 CO and ACDZ w/ 6000 gals Resisol II + 750# Trimix salt.
Additional Data:
T/Queen Formation @ 3386'
T/Penrose Formation @ 3538'
T/Grayburg Zone 1 @ 3727'
T/Grayburg Zone 2 @ 3782'
T/Grayburg Zone 2A @ 3824'
T/Grayburg Zone 3 @ 3865'
T/Grayburg Zone 4 @ 3927'
T/Grayburg Zone 5 @ 4004'
T/Grayburg Zone 6 @ 4062'
T/San Andres Formation @ 4095'
KB @ 3597'

12/3/2002