

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



Armstrong 1092
Mobil Lea State #3

ADMINISTRATIVE APPLICATION CHECKLIST 30-075-32105

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

Application Acronyms:

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

Lea State
Hobbs

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

Property 1578
R-10541

see 1/64

E-27-96
Added new parts
5578-5726

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

orig w/d
Release of Hopebat
5894-6098
9-93

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

Part 5
5918-
5936

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

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

BruceA. Stubbs  Vice President-Operations 01/20/2011

Print or Type Name Signature Title Date

bastubbs@armstrongenergycorp.com
 e-mail Address



500 North Main Street, Suite 200
P.O. Box 1973
Roswell, New Mexico 88202-1973
(575) 625-2222
Fax (575) 622-2512

RECEIVED OCD

2011 JAN 19 P 1:25

January 17, 2011

Mr. Terry G. Warnell
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Re: Mobil Lea State Pressure Maintenance Project
Order No.: R-10541-A
SW/4 Section 2-T20S-R34E
Lea County, New Mexico

Dear Sir:

Armstrong Energy Corporation operates the Mobil Lea State Pressure Maintenance Project located in the SW/4 of Section 2-T20S-R34E, Lea County, New Mexico. Water injection was initiated into the Mobil Lea State #8 well in September 2002. Through July 2010 a total of 1,490,523 barrels of water has been injected into the Cherry Canyon formation for pressure maintenance. Armstrong proposes to expand injection into the Cherry Canyon formation by converting the Mobil Lea State #3 well to injection. The Mobil Lea State #3 was completed as a Cherry Canyon producer in 1993 and has since watered out. The #3 well will add injection support to the southwest side of the reservoir to enhance production from the updip wells.

Enclosed are an original and one copy of the C-108 "Application for Authorization to Inject" for the conversion of the Mobil Lea State #3 to injection. Injection will be into perforations in the interval 5578-5936'; the anticipated injection rate is 500 BWPD at 1000 psi. Also enclosed is proof of mailing by Certified, Return-Receipt mail to each offset operator and surface owner along with a copy of the Affidavit of Publication in the Hobbs News-Sun newspaper.

Should you have any questions, please contact Bruce Stubbs with Armstrong Energy Corporation at 575-625-2222.

Sincerely,

ARMSTRONG ENERGY CORPORATION

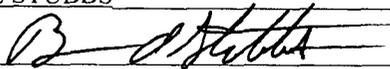


Bruce A. Stubbs
Vice President – Operations

Enclosures

cc: Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? Yes _____ No
- II. OPERATOR: ARMSTRONG ENERGY CORPORATION
ADDRESS: P.O. BOX 1973, ROSWELL, NM 88202-1973
CONTACT PARTY: BRUCE STUBBS PHONE: 575-625-2222
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes _____ No
If yes, give the Division order number authorizing the project: R-10541 & R-10541-A
- 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: BRUCE STUBBS TITLE: VICE PRESIDENT
SIGNATURE:  DATE: 12-28-2010
E-MAIL ADDRESS: bastubbs@armstrongenergycorp.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

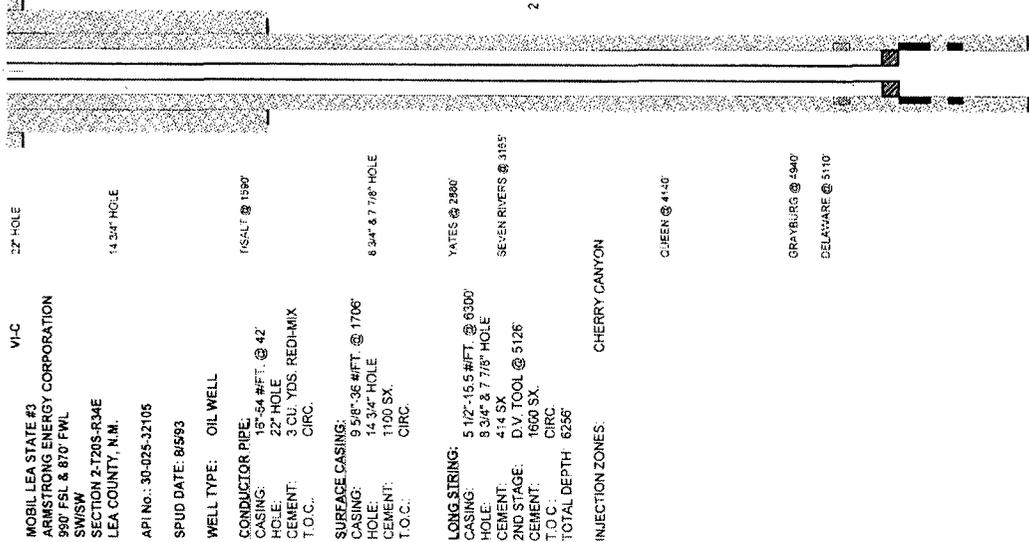
OPERATOR: ARMSTRONG ENERGY CORPORATION

WELL NAME & NUMBER: MOBIL LEA STATE #3

WELL LOCATION: 990' FSL & 870' FWL
FOOTAGE LOCATION

UNIT LETTER M SECTION 2 TOWNSHIP T20S RANGE R34E

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14 3/4" Casing Size: 9 5/8"

Cemented with: 1100 sx. or ft³

Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 8 3/4" & 7 7/8" Casing Size: 5 1/2"

Cemented with: 414 SX. + 1600 SX. or ft³

Top of Cement: SURFACE Method Determined: CIRCULATED

Total Depth: 6300'

Injection Interval

5578' feet to 5936', Perforated, 50 shots

(Perforated or Open Hole; indicate which)

MOBIL LEA STATE #3
ARMSTRONG ENERGY CORPORATION
990' FSL & 870' FWL
SW/4
SECTION 2-T20S-R34E
LEA COUNTY, N.M.
API No.: 30-025-32105
SPUD DATE: 8/5/83
WELL TYPE: OIL WELL
CONDUCTOR PIPE:
15'-54' #FT. @ 42'
HOLES:
22' HOLE
14'-34' HOLE
3 CU. YDS. RED-MIX
CIRC.
SURFACE CASING:
9 5/8" #FT. @ 1706'
CASING:
8 3/4" #FT. @ 1706'
HOLES:
14'-34" HOLE
1100 SX.
CIRC.
LONG STRING:
5 1/2" #FT. @ 6300'
CASING:
8 3/4" & 7 7/8" HOLE
CEMENT:
4:4 SX
2ND STAGE:
D.V. TOOL @ 5126
CEMENT:
1600 SX.
T.O.C.
CIRC.
TOTAL DEPTH: 6236'
INJECTION ZONES: CHERRY CANYON
C.I.EEN @ 4140
GRAYBURG @ 4940
DELAWARE @ 5110
D.V. TOOL @ 5126
1600 SX
CIRC.
5 1/2" PLASTIC COATED PACKER @ +/- 5550
5578-5726
5918'-5936' 30 SHOTS
5 1/2" #FT. @ 6300'
414 SX

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8"-4.7 #/FT., EUE, 8RD, J-55 Lining Material: CERAM-KOTE 54

Type of Packer: 5 1/2" BAKER LOCKSET, NICKLE PLATED OR PLASTIC COATED

Packer Setting Depth: +/-5530'

Other Type of Tubing/Casing Seal (if applicable): N.A.

Additional Data

1. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? CHERRY CANYON OIL WELL
2. Name of the Injection Formation: CHERRY CANYON
3. Name of Field or Pool (if applicable): NORTHEAST LEA DELAWARE
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: QUEEN 4800-5000', BONE SPRING 9476'-10258', MORROW 13,034-13462', DEVONIAN 14,360'

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
990' FSL & 870 FWL
SECTION 2-T20S-R34E
LEA COUNTY, NEW MEXICO**III. PROPOSED PRESSURE MAINTENANCE WELL DATA:****A.**

CONDUCTOR PIPE: 16"-54 #/FT SET @ 42', CEMENT TO SURFACE W/ 3 CU. YDS. REDI-MIX

SURFACE CASING: 9 5/8"-36 #/FT. SET @ 1700', CEMENTED TO SURFACE W/ 1100 SX

LONG STRING CASING: 5 1/2"-15.5 #/FT. SET @ 6300', CEMENTED IN TWO STAGES WITH A D.V. TOOL @ 5126'
1ST STAGE - 414 SX, CIRCULATED TO D.V. TOOL
2ND STAGE - 1600 SX CIRCULATED TO SURFACE

TOTAL DEPTH: 6300'

TUBING: 2 3/8"-4.7 #/FT., J-55, W/ FREECOM CERAMIC COATING

PACKER: BAKER LOCKSET W/ ON-OFF TOOL AND PROFILE NIPPLE, SET @ 5850'

B.

INJECTION FORMATION: DELAWARE - CHERRY CANYON
(AS SHOWN ON MOBIL LEA STATE #3 LOG FROM 5578'-5936')

FIELD: NORTHEAST LEA DELAWARE

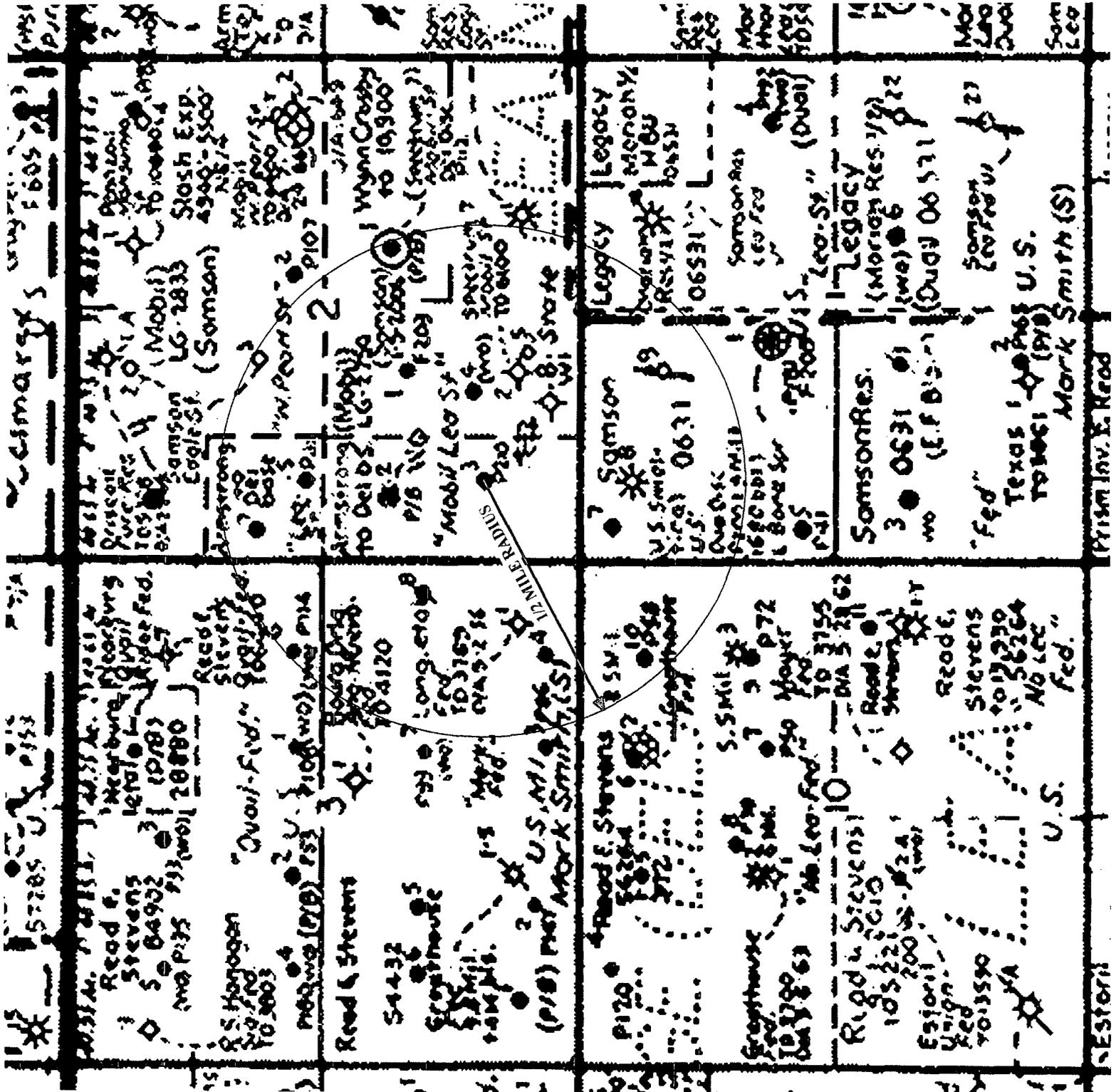
INJECTION INTERVAL: 5578'-5936', CASED HOLE

ORIGINAL WELL PURPOSE: THIS WELL WAS DRILLED AS A CHERRY CANYON PRODUCING WELL.

OTHER PERFORATED INTERVALS: NONE

DEPTHS AND NAMES OF OTHER OIL & GAS ZONES IN THE AREA: DELAWARE -CHERRY CANYON SAND - 5456'-5950'
BONE SPRINGS - 9476'-10258'
MORROW - 13034'-13462'
DEVONIAN - 14360'

WELLS WITHIN
1/2 MILE OF THE
MOBIL LEA STATE #3
990' FSL & 870' FWL
SEC. 2-T20S-R34E
LEA COUNTY, NM



22" HOLE

16"-54 #/FT. @ 42'
3 CU. YDS. REDI-MIX

**MOBIL LEA STATE #1
ARMSTRONG ENERGY CORPORATION
1800' FSL & 1980' FWL
NE/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.**

14 3/4" HOLE

API No.: 30-025-31696

SPUD DATE: 9/30/92

WELL TYPE: OIL WELL

T/SALT @ 1625'

9 5/8"-36 #/FT. @ 1697'
1300 SX.
CIRC.

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 42'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

8 3/4" & 7 7/8" HOLE

SURFACE CASING:

CASING: 9 5/8"-36 #/FT. @ 1697'
HOLE: 14 3/4" HOLE
CEMENT: 1300 SX.
T.O.C.: CIRC.

B/SALT @ 3540'
YATES @ 3630'

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6289'
HOLE: 8 3/4" & 7 7/8" HOLE
CEMENT: 290 SX
2ND STAGE: D.V. TOOL @ 5345'
CEMENT: 1600 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6289'

PRODUCTION ZONES: CHERRY CANYON

QUEEN @ 4662'

DISTANCE FROM MOBIL LEA STATE #3
N-S 810 FT.
E-W 1110 FT.
DIAGONAL 1374.12 FT.

SAN ANDRES @ 5095'

DELAWARE @ 5345'

D.V. TOOL @ 5345'
1600 SX.
CIRC.

5578

5658'-5695', 11 SHOTS

4-27-2000 2000 GALS. 12 1/2% ACID, FRAC 12,025 GALS. 19,900# SAND

5936

5890'-5931', 41 SHOTS

3000 GALS. 7 1/2% NEFE ACID, FRAC 19,500 GALS. 47,000 16/30 SAND

5 1/2"-15.5 #/FT. @ 6289'
290 SX

22" HOLE

16"-54 #/FT. @ 40'
3 CU. YDS. REDI-MIX

MOBIL LEA STATE #2
ARMSTRONG ENERGY CORPORATION
1800' FSL & 990' FWL
NW/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-31928'

SPUD DATE: 3/19/93

WELL TYPE: OIL WELL

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 40'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 9 5/8"-36 #/FT. @ 1702'
HOLE: 14 3/4" HOLE
CEMENT: 1200 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6289'
HOLE: 8 3/4" & 7 7/8" HOLE
CEMENT: 380 SX
2ND STAGE: D.V. TOOL @ 5171'
CEMENT: 1600 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6256'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3

N-S 810 FT.
E-W 120 FT.
DIAGONAL 818.84 FT.

14 3/4" HOLE

T/SALT @ 1600'

9 5/8"-36 #/FT. @ 1702'
1200 SX
CIRC.

8 3/4" & 7 7/8" HOLE

YATES @ 3500'

SEVEN RIVERS @ 3790'

QUEEN @ 4655'

GRAYBURG @ 4890'

SAN ANDRES @ 5100

DELAWARE @ 5345

D.V. TOOL @ 5171'
1600 SX
CIRC.

5605'-5654' 11/96

1500 GALS. 7 1/2% ACID, FRAC W/ 20,000 GALS & 46,200# 16/30 SAND

5890'-5930', 39 shots

2000 GALS. 7 1/2% ACID, FRAC W/ 20,000 GALS & 46,200# 16/30 SAND

5578

5936

5 1/2"-15.5 #/FT. @ 6256'
380 SX

22" HOLE

14 3/4" HOLE

T/SALT @ 1590'

8 3/4" & 7 7/8" HOLE

YATES @ 2880'

SEVEN RIVERS @ 3165'

QUEEN @ 4140'

GRAYBURG @ 4940'

DELAWARE @ 5110'

16"-54 #/FT. @ 42'
3 CU. YDS.

EXISTING CONFIGURATION

9 5/8"-36 #/FT. @ 1700'
1100 SX
CIRC.

D.V. TOOL @ 5126'
1600 SX
CIRC.

5578-5726' 6/96 2000 GALS. 7 1/2% ACID, 60,000 GALS. & 158,500# 16/30 SAND

5918'-5936', 30 SHOTS 3000 GALS. 7 1/2% ACID, 20,000 GALS. & 47,400# 16/30 SAND

5 1/2"-15.5 #/FT. @ 6300'
414 SX

**MOBIL LEA STATE #3
ARMSTRONG ENERGY CORPORATION
990' FSL & 870' FWL
SW/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.**

API No.: 30-025-32105

SPUD DATE: 8/5/93

WELL TYPE: OIL WELL

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 42'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 9 5/8"-36 #/FT. @ 1706'
HOLE: 14 3/4" HOLE
CEMENT: 1100 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6300'
HOLE: 8 3/4" & 7 7/8" HOLE
CEMENT: 414 SX
2ND STAGE: D.V. TOOL @ 5126'
CEMENT: 1600 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6256'

PRODUCTION ZONES: CHERRY CANYON



VI-C
MOBIL LEA STATE #3
ARMSTRONG ENERGY CORPORATION
990' FSL- & 870' FWL
SW/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-32105

SPUD DATE: 8/5/93

WELL TYPE: OIL WELL

CONDUCTOR PIPE:
 CASING: 16"-54 #/FT. @ 42'
 HOLE: 22" HOLE
 CEMENT: 3 CU. YDS. REDI-MIX
 T.O.C.: CIRC.

SURFACE CASING:
 CASING: 9 5/8"-36 #/FT. @ 1706'
 HOLE: 14 3/4" HOLE
 CEMENT: 1100 SX.
 T.O.C.: CIRC.

LONG STRING:
 CASING: 5 1/2"-15.5 #/FT. @ 6300'
 HOLE: 8 3/4" & 7 7/8" HOLE
 CEMENT: 414 SX
 2ND STAGE: D.V. TOOL @ 5126'
 CEMENT: 1600 SX.
 T.O.C.: CIRC.
 TOTAL DEPTH: 6256'

INJECTION ZONES: CHERRY CANYON

22" HOLE

14 3/4" HOLE

T/SALT @ 1590'

8 3/4" & 7 7/8" HOLE

YATES @ 2880'

SEVEN RIVERS @ 3165'

QUEEN @ 4140'

GRAYBURG @ 4940'

DELAWARE @ 5110'

16"-54 #/FT. @ 42'
3 CU. YDS.

PROPOSED CONFIGURATION

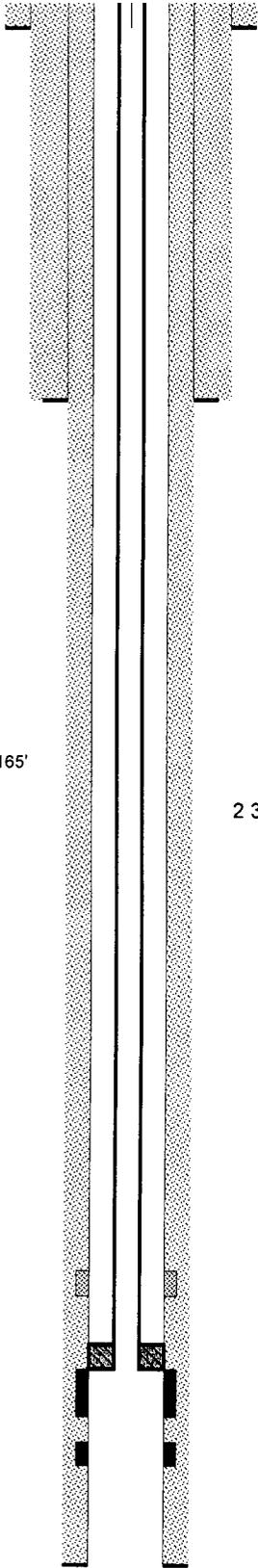
9 5/8"-36 #/FT. @ 1700'
1100 SX
CIRC.

2 3/8"-4.7 #/FT., J-55, EUE, 8RD, IPC

D.V. TOOL @ 5126'
 1600 SX
 CIRC.
 5 1/2" PLASTIC COATED PACKER @ +/- 5550'
 5578-5726'

5918'-5936', 30 SHOTS

5 1/2"-15.5 #/FT. @ 6300'
414 SX



22" HOLE

14 3/4" HOLE

T/SALT @ 1605'

8 3/4" & 7 7/8" HOLE

YATES @ 3600'

SEVEN RIVERS @ 3680

QUEEN @ 4665'

DELAWARE @ 5435'

5578 —

5936 —

16"-54 #/FT. @ 40'
3 CU. YDS. REDI-MIX

9 5/8"-36 #/FT. @ 1706'
1050 SX
CIRC.

D.V. TOOL @ 5166'
1550 SX.
CIRC.

5544-5570' APRIL 1997 1500 GALS 7 1/2% ACID, 20,000 GALS. W/ 44,000# 16/30 SAND

5910'-5940', 31 SHOTS 3000 GALS 7 1/2% ACID, 20,000 GALS. W/ 46,200# 16/30 SAND

5 1/2"-15.5 #/FT. @ 6285'
360 SX

**MOBIL LEA STATE #4
ARMSTRONG ENERGY CORPORATION
1155' FSL & 1770' FWL
SE/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.**

API No.: 30-025-32310

SPUD DATE: 12/7/93

WELL TYPE: OIL WELL

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 40'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 9 5/8"-36 #/FT. @ 1706'
HOLE: 14 3/4" HOLE
CEMENT: 1050 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6285'
HOLE: 8 3/4" & 7 7/8" HOLE
CEMENT: 360 SX
2ND STAGE: D.V. TOOL @ 5166'
CEMENT: 1550 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6285'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3

N-S 165 FT.

E-W 900 FT.

DIAGONAL 915.00 FT.

MOBIL LEA STATE #5
ARMSTRONG ENERGY CORPORATION
2440' FNL & 870' FWL
SW/NW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-32466

SPUD DATE: 3/26/94

WELL TYPE: OIL WELL

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 40'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 8 5/8"-32 #/FT. @ 1705'
HOLE: 12 1/4" HOLE
CEMENT: 800 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6058'
HOLE: 7 7/8" HOLE
CEMENT: 325 SX
2ND STAGE: D.V. TOOL @ 5207'
CEMENT: 1400 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6058'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3

N-S 1848 FT.
E-W 0 FT.
DIAGONAL 1848.00 FT.

22" HOLE

12 1/4" HOLE

T/SALT @ 1700'

7 7/8" HOLE

YATES @ 3590'

SEVEN RIVERS @ 3800'

QUEEN @ 4650'

DELAWARE @ 5540'

5578

5936

14"-28 #/FT. @ 40'
3 CU.YDS. REDI-MIX

8 5/8"-32 #/FT. @ 1705'
800 SX
CIRC.

D.V. TOOL @ 5207'
1400 SX
CIRC.
5610'-5630', 21 SHOTS

5 1/2"-15.5 #/FT. @ 6058'
325 SX

MOBIL LEA STATE #7
ARMSTRONG ENERGY CORPORATION
1930' FNL & 330' FWL
SW/NW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-32914

SPUD DATE: 3/26/94

WELL TYPE: OIL WELL

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 40'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 8 5/8"-32 #/FT. @ 1705'
HOLE: 12 1/4" HOLE
CEMENT: 800 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6058'
HOLE: 7 7/8" HOLE
CEMENT: 325 SX
2ND STAGE: D.V. TOOL @ 5207'
CEMENT: 1400 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 6058'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3
N-S 2360 FT.
E-W 540 FT.
DIAGONAL 2420.99 FT.

22" HOLE

12 1/4" HOLE

T/SALT @ 1650'

7 7/8" HOLE

B. SALT 3150'

YATES @ 3570'

SEVEN RIVERS @ 3665'

QUEEN @ 3815'

GRAYBURG 4350'

SAN ANDRES 4900'

DELAWARE @ 5500'

5578 -
5936 =

14"-28 #/FT. @ 40'
6 CU. YDS. REDI-MIX

9 5/8"-36 #/FT. @ 1703'
650 SX
CIRC.

CIRC.
5610-5630', 21 SHOTS

D.V. TOOL @ 5719'
2500 SX LITE + 200 SX "H"
CIRC
6012-6032', 1 JSPF
6158-6172', SQUEEZED W/ 200 SX

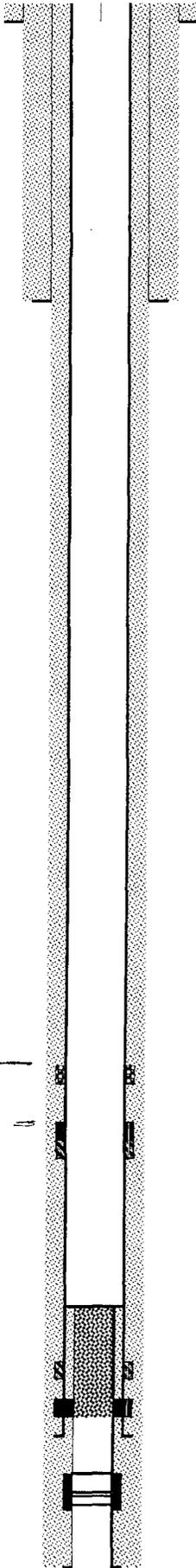
CEMENT RETAINER @ 6935'
CEMENT PLUG 6935-7950'

7322-7338', SQUEEZED W/ 200 SX.

7565-7580'
5 1/2"-15.5 & 17 #/FT. @ 7600'
900 SX, CIRC.
CIBP @ 7800'
7922, 7927, 7930, 7935, 7941, 7944, 7948 & 7950'
CIBP @ 8000'
8016, 8017, 8018, 8020'
CIBP @ 8080'
8096, 8101, 8114, 8120, 8150, 8186, 8190, 8204, 8217, & 8219'

4"-11.34 #/FT. K-55, LINER 6988-8320'
370 SX. CLASS "H"

BONE SPRING 8245'



17.1/2" HOLE

11" HOLE

RUSTLER @ 1653'

YATES @ 1650'

QUEEN @ 4665'

SAN ANDRES @ 4800'

7 7/8" HOLE

DELAWARE @ 5630'

BONE SPRINGS LIME @ 7930'

1ST BONE SPRINGS SAND @ 9500'

2ND BONE SPR. SAND @ 10,737'

13 3/8"-54.5 #/FT. K-55 @ 422'
250 SX "HLC" 3% SALT, & 1/4# FLOCELE
200 SX CLASS "C", 2% CACL
CIRCULATED 135 SX

8 5/8"-32 & 28 #/FT @ 4380'
1000 SX HLC, 18 % SALT, 5# GILSONITE & 1/4 #/SX FLOCELE
1500 SX HLC, 18% SALT & 1/4 #/SX FLOCELE
200 SX CLASS "C" W/ 1% CACL
CIRCULATED 550 SX

5626', 31', 33', 44', 71, 75', 86', 93' & 95', 10 SHOTS

D.V. TOOL @ 6374'
355 SX HLC W/ 1/4#/SX FLOCELE
150 SX CLASS "H"

1.97 CU.FT./SX	699.35 CU.FT.
1.06 CU.FT./SX	159.00 CU.FT.

7 7/8" X 5 1/2" 0.1733 CU.FT./FT

THEORETICAL FILL	4953.0 FT.
LESS 25% EXCESS	3714.8 FT.
CALCULATED T.O.C.	2660 FT.

CALCULATED T.O.C. 8550'

CIBP @ 9600'
9650'-54', 9663'66', 9676'-9681' & 9636'-9688', 2 SHOTS/FT.

5 1/2"-17#/FT J-55 & N-80 @ 9816'
225 SX CLASS "H" 50/50 POZ 2% GEL, .6% HALAD-22A, .3% CFR-2, 5# KCL & 1/4# FLOCELE

1.30 CU. FT./SX	292.5 CU.FT.
7 7/8" X 5 1/2"	0.1733 CU.FT./FT

THEORETICAL FILL	1687.8 FT.
LESS 25% EXCESS	1265.9 FT.
CALCULATED T.O.C.	8550.1 FT.
T.D. @ 10800'	

MOBIL STATE #1
MERIT ENERGY COMPANY, LLC
1980' FSL & 1980' FEL
NW/SE
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-29204.

SPUD DATE: 4/16/85

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. K-55 @ 422'
HOLE: 17 1/2" HOLE
CEMENT: 450 SX
T.O.C.: CIRC.

INTERMEDIATE CASING:

CASING: 8 5/8"-32 & 28 #/FT @ 4380'
HOLE: 11" HOLE
CEMENT: 2700 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-17#/FT J-55 & N-80 @ 9816'
HOLE: 7 7/8" HOLE
CEMENT: 225 SX
T.O.C.: CALC. @ 8550'
2ND STAGE: D.V. TOOL @ 6374'
CEMENT: 505 SX.
T.O.C.: CALC. @ 2660'
TOTAL DEPTH: 10800'

PRODUCTION ZONES: FIRST BONE SPRINGS SAND
CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3

N-S 990 FT.
E-W 2430 FT.
DIAGONAL 2623.93 FT.

5578

5936

MOBIL STATE #2
SPECTRUM "7" EXPLORATION
660' FSL & 1980' FWL
SE/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-29701

SPUD DATE: 6/12/86

WELL TYPE: DRY HOLE, P/A

SURFACE CASING:

CASING: 8 5/8" 24 #/FT. @ 1728'
HOLE: 12 1/4" HOLE
CEMENT: 850 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 4 1/2"-10.5#/FT. & 11.6#/FT. @ 6043'
HOLE: 7 7/8" HOLE
CEMENT: 450 SX
T.O.C.: CALC. @ 4075'
TOTAL DEPTH: 6100'

PRODUCTION ZONES: TESTED CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3
N-S -330 FT.
E-W 1110 FT.
DIAGONAL 1158.02 FT.

25 SX @ SURFACE

12 1/4" HOLE

RUSTLER @ 1600'

T.D. @ 1731'

40 SX PLUG @ 1778'

8 5/8" 24 #/FT. @ 1728'
650 SX HLC W/ 1/4# SX FLOCELE
200 SX CLASS "C" W/ 2% CACL
CIRCULATED 100 SX

7 7/8" HOLE

B/SALT @ 3248'

YATES @ 3705'

SEVEN RIVERS @ 4290'

QUEEN @ 4682'

GRAYBURG @ 5113'

CASING CUT AND PULLED @ 2903'
40 SX PLUG @ 2950', DID NOT TAG
40 SX @ 2950', TAGGED @ 2793'

TOC @ 4050'
25 SX @ 4600'

25 SX PLUG @ 5600'-5400'

25 SX PLUG @ 5650'-5600'
5698', 5699', 5700', 01', 02', 05', 06', 07', 13', 14', 15' & 16'

5578
5936

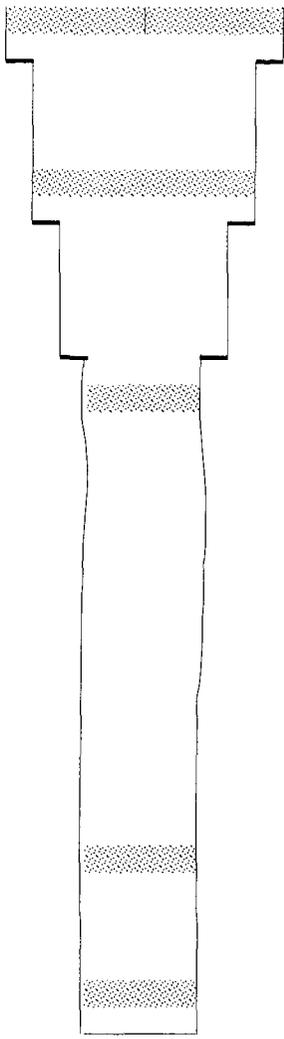
T.D. @ 6100'

4 1/2"-10.5#/FT. & 11.6#/FT. @ 6043'
450 SX CLASS "C" POZ W/ .6% CF-14 & 1/4# SX FLOCELE

YIELD 1.33 CU.FT./SX 598.5 CU.FT.

7 7/8" X 4 1/2" 0.2278 CU.FT./FT.

LESS 25% 2627.3 FT.
EST. T.O.C. 1970.5 FT.
4073 FT.



BRIDGE @ 80' W/ 90 SX CEMENT

VI-I

13 3/8" @ 126'
SET & PULLED

FEDERAL "A" #1
LANG & SCHLACHTER
660' FSL & 660' FEL
SE/SE
SECTION 3-T20S-R34E
LEA COUNTY, N.M.

10 SX PLUG @ 600'

10 3/4" @ 740'
SET & PULLED

API No.: 30-025-02410

SPUD DATE: 3/26/56

8" @ 1300'
SET & PULLED
20 SX PLUG @ 1500'

WELL TYPE: DRY HOLE, P/A

THIS WELL DID NOT PENETRATE
THE CHERRY CANYON INTERVAL

DISTANCE FROM MOBIL LEA STATE #3
N-S -330 FT.
E-W 1530 FT.
DIAGONAL 1565.18 FT.

PLU

ANHYDRITE @ 1562'

B/SALT @ 3160'

YATES @ 3379'

20 SX PLUG @ 3270'

25 SX PLUG @ 3755'

T.D. @ 3769'

5567

5936

MARK FEDERAL #4
READ & STEVENS INC.
330' SFL & 990' FEL
SE/SE
SECTION 3-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-31818

SPUD DATE: 10/27/93

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. @ 1486'
HOLE: 17 1/2" HOLE
CEMENT: 1200 SX
T.O.C.: CIRC.

INTERMEDIATE CASING:

CASING: 8 5/8"-32 #/FT @ 5005'
HOLE: 11" HOLE
CEMENT: 1750 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. J-55 @ 6132'
HOLE: 7 7/8" HOLE
CEMENT: 650 SX
T.O.C.: 1500' - CBL

TOTAL DEPTH: 6214'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3
N-S -660 FT.
E-W 1860 FT.
DIAGONAL 1973.63 FT.

T.O.C. @ 1500', CBL

13 3/8"-54.5 #/FT. @ 1486'
950 SX LITE
250 CLASS "C"
CIRC. 160 SX

D.V. TOOL @ 3771'
ECP @ 3816'

1100 SX LITE W/ 15 #/SX SALT & 1/4 #/SX FLOCELE
250 SX PREMIUM PLUS W/ 2% CACL
CIRC

8 5/8"-32 #/FT. J-55 & S-80 @ 5005'
400 SX PREMIUM PLUS

5912'-5922'

PBTD @ 6157'

5 1/2"-15.5 #/FT. J-55 @ 6214'
250 SX LITE
400 SX CLASS "C"

17 1/2" HOLE

OCHOAN 1560'

11" HOLE

YATES 3200'

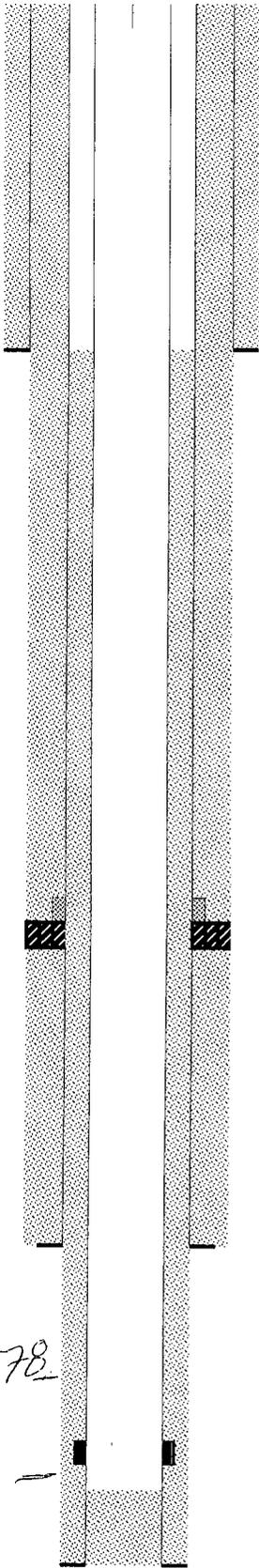
7 RVRS 3829'

7 7/8" HOLE

DELAWARE 5504'

5578

5936



R.I.H. 60',
CIRCULATE 20 SX. TO SURFACE

**MARK FEDERAL #8
READ & STEVENS INC.
1650' FSL & 330' FEL
NE/SE
SECTION 3-T20S-R34E
LEA COUNTY, N.M.**

API No.: 30-025-32158

SPUD DATE: 8/31/93

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. @ 1496'
HOLE: 17 1/2" HOLE
CEMENT: 1250 SX
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. J-55 @ 6349'
HOLE: 7 7/8" HOLE
CEMENT: 2690 SX
T.O.C.: CIRC.

TOTAL DEPTH: 6349'

**PRODUCTION ZONES: CHERRY CANYON
PLUGGED AND ABANDONED**

**DISTANCE FROM MOBIL LEA STATE #3
N-S 660 FT.
E-W 1200 FT.
DIAGONAL 1369.53 FT.**

17 1/2" HOLE

OCHOA @ 1556'

7 7/8" HOLE

YATES @ 3401'

SEVEN RIVERS @ 3840'

DELAWARE @ 5456'

5578 -

5936 -

SPOT 25 SX PLUG @ 1550'
TAGGED @ 1247'
13 3/8"-54.5 #/FT. @ 1496'
950 SX LITE
250 SX P.P.
CIRC.

PLU

25 SX. PLUG, TAGGED AT 3024'

SPOT 35 SX. PLUG @ 3937', TAGGED @ 3772'

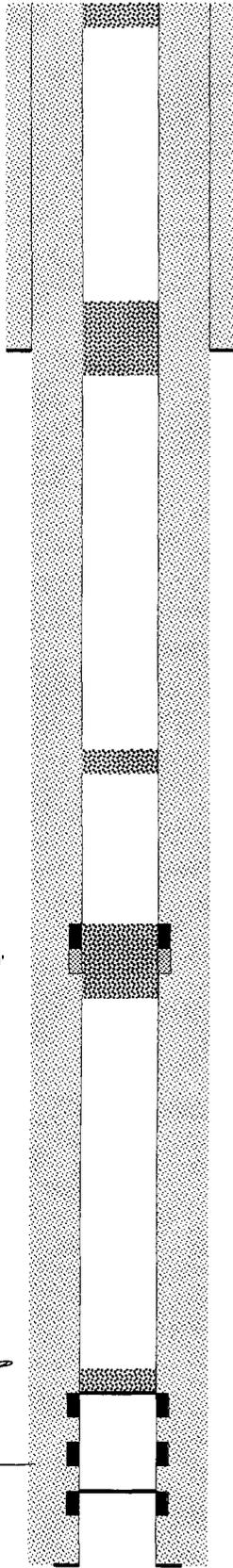
3769-73' & 3824-3828'
D.V. TOOL @ 3830'
1400 SX HLC W/ 10 #/SX SALT
470 SX CLASS "C"
CIRC 86 SX TO SURFACE

CIBP @ 5533' W/ 35' CEMENT
5636-5660'

5548-5552' & 5562-5572'
5698-5708' & 5716-5727' SQUEEZED

5910'-5914', 5816-5920', 5934-5960'
CIBP @ 6020'
6030'-6038', 32 SHOTS

5 1/2"-15.5 #/FT. @ 6349'
545 SX HLC W/ 5 #/SX GILSONITE
275 SX CLASS "H"



NORTH LEA FEDERAL #10
READ & STEVENS INC.
660' FNL & 990' FEL
NE/NE
SECTION 10-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-31822

SPUD DATE: 2/11/93

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. J-55 @ 1550'
HOLE: 17 1/2" HOLE
CEMENT: 1150 SX
T.O.C.: CIRC.

INTERMEDIATE CASING:

CASING: 8 5/8"-32 #/FT @ 4975'
HOLE: 11" HOLE
CEMENT: 1750 SX.
T.O.C.: CIRC.

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. J-55 @ 6245'
HOLE: 7 7/8" HOLE
CEMENT: 700 SX
T.O.C.: 1700'

TOTAL DEPTH: 6245'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3

N-S 1650 FT.

E-W 1860 FT.

DIAGONAL 2486.38 FT.

17 1/2" HOLE

OCHOA @ 1556'

T.O.C. @ 1700'

13 3/8"-54.5 #/FT. J-55 @ 1550'
900 SX LITE
250 SX P.P. W/ 2% CACL
CIRC.

YATES @ 3401'

SEVEN RIVERS @ 3840'

D.V. TOOL @ 3803'
ECP @ 3865'
1100 SX LITE
250 P.P.
CIRC. 125 SX

7 7/8" HOLE

DELAWARE @ 5456'

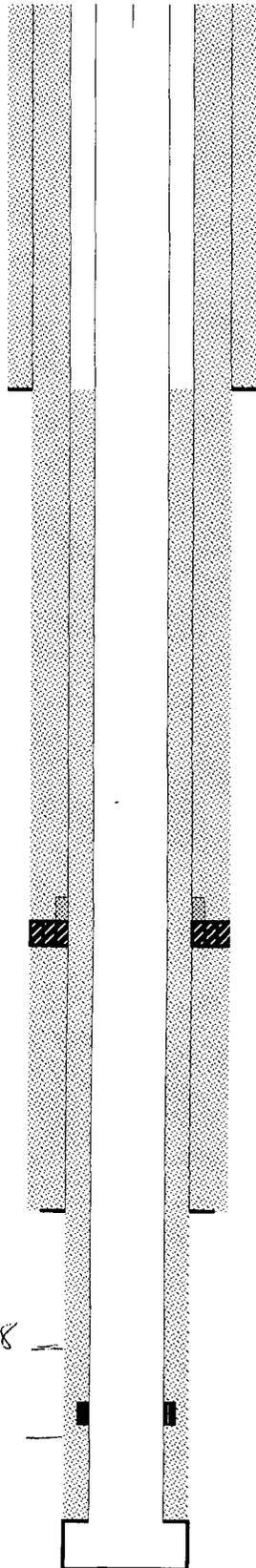
8 5/8"-32 #/FT S-80 & J-55 @ 4975'
400 SX CLASS "H"
CIRC 80 SX @ D.V. TOOL

5578 -

5936 -

5910'-5930', 40 SHOTS

5 1/2"-15.5#/FT. J-55 @ 6245'
250 SX LITE
450 SX P.P.
T.D. 6488'



FEDERAL #1
SAMSON RESOURCES
1980' FNL & 2130' FWL
SE/NW
SECTION 11-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-02426
SPUD DATE: 11/14/60

WELL TYPE: GAS WELL - OIL WELL

SURFACE CASING:
CASING: 16" 46 #/FT. @ 723'
HOLE: 24" HOLE
CEMENT: 1200 SX
T.O.C.: CIRC.

INTERMEDIATE CASING:
CASING: 10 3/4" @ 5293'
HOLE: 13 3/4" HOLE
CEMENT: 3420 SX.
T.O.C.: CIRC.

LONG STRING:
CASING: 7"-29 & 32 #/FT @ 14360'
HOLE: 9 5/8" HOLE
CEMENT: 1700 SX
T.O.C.: CALC. @ 8680'

TOTAL DEPTH: 14619'

PRODUCTION ZONES:
TESTED DEVONIAN
PRODUCEDMORROW
RECOMPLETED TO BONE SPRINGS

DISTANCE FROM MOBIL LEA STATE #3
N-S 2970 FT
E-W 1440 FT
DIAGONAL 3300 08' FT.

10 3/4" @ 5293'
3420 SX
CIRC.

24" HOLE

13 3/4" HOLE

ANHYDRITE @ 1610'

T/SALT @ 1850'

B/SALT @ 3260'

YATES @ 3440'

QUEEN @ 3748'

TUBB @ 4834'

9 5/8" HOLE

5578
5936

BONE SPRINGS 8202'

EST TOC @ 8680'

SQUEEZE HOLES @ 9420' & 9555'
SHOT HOLES @ 9470'
SQUEEZE W/ 30 SX CLASS "H" W/ .75% CF-14
SQUEEZE W/ 30 SX CLASS "H"
SQUEEZE W/ 30 SX CLASS "H" W/ .75% CF-14

10156-10166', 32 SHOTS
SQUEEZE W/ 100 SX CLASS "H" W/ 68% SX SAND,
1/4 #/SX FLOCELE, .5% CFR-2
10253-10258', 10150-10155', 9572-9577', 9560-9568', 9476-9486', 4 JSPP

T/PENN @ 12060'

PBTD @ 12686'
SPOT 61 SX CLASS "H" W/ .75% CF-14 ON TOP OF PACKER
SPOT 85 SX CLASS "H" W/ .75% CF-14 ON TOP OF PACKER
PACKER @ 12946'

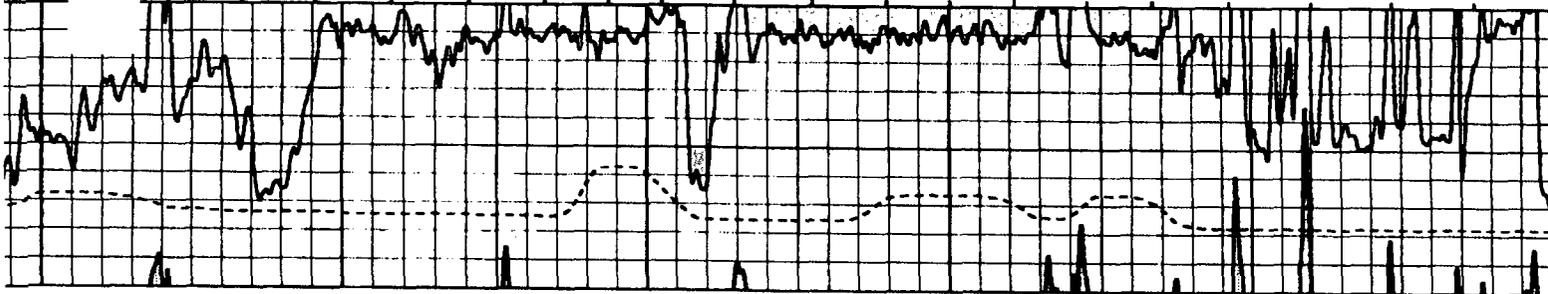
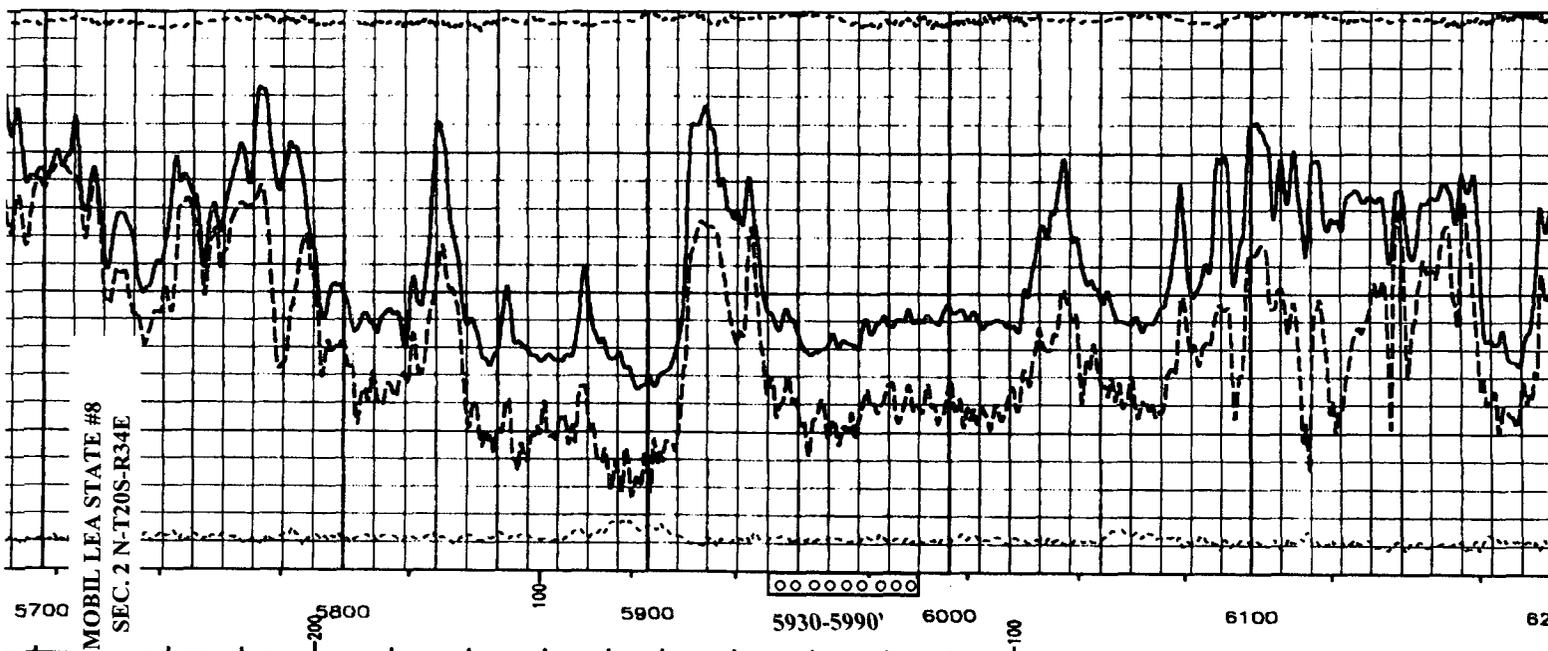
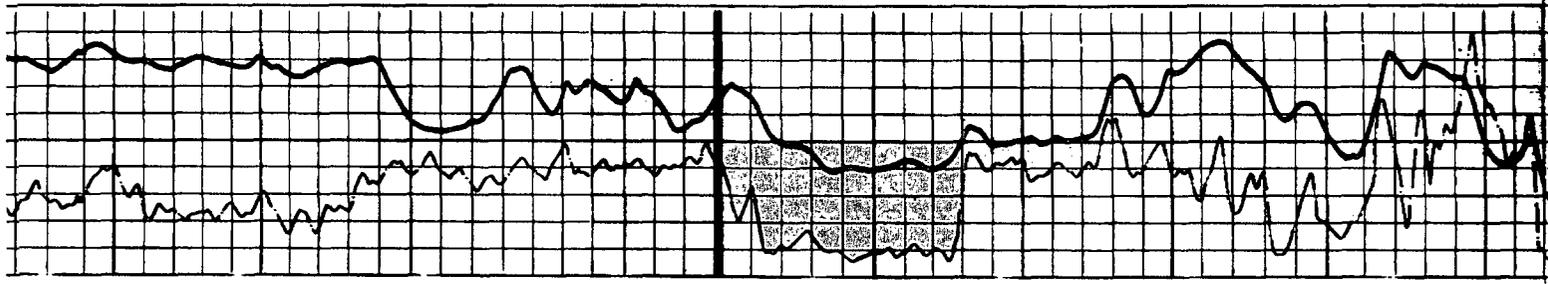
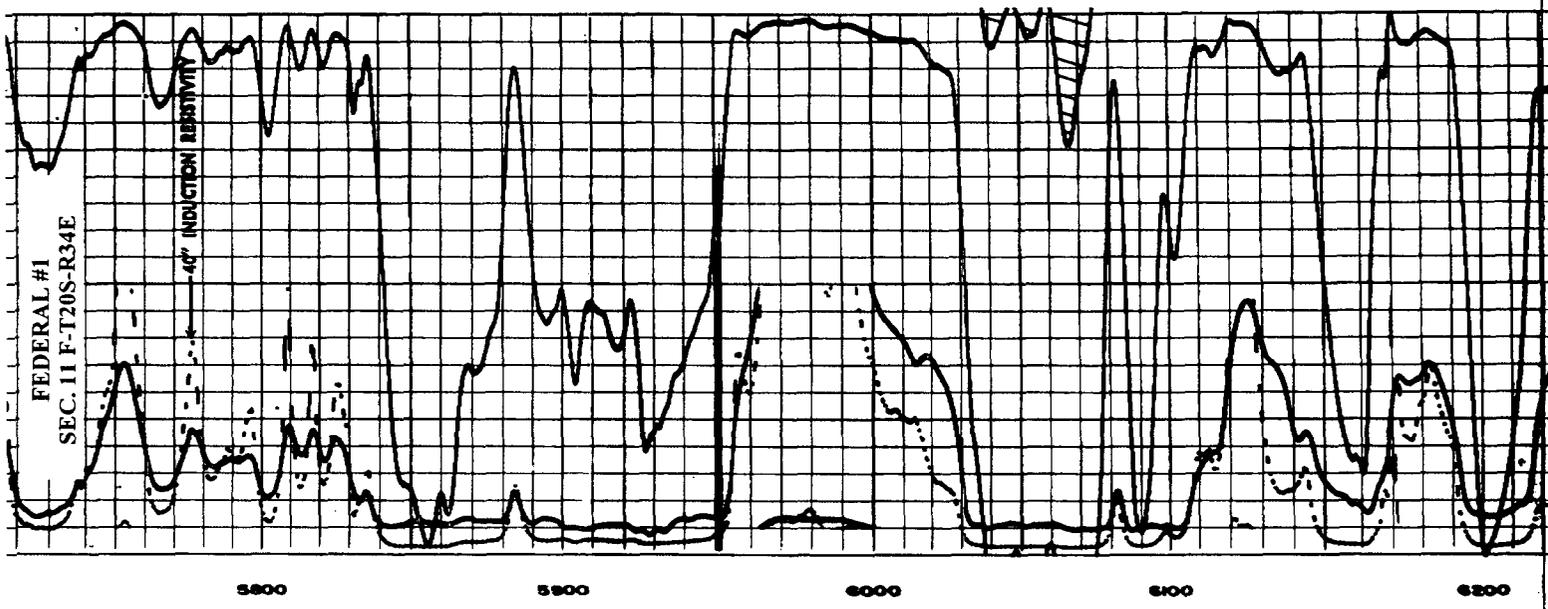
13034-13054', 80 SHOTS
CIBP @ 13058'
13077-13087'

MISSISSIPPIAN @ 13684'

W/GODFORD @ 14305'
DEVONIAN @ 14478'

7"-29 & 32 #/FT @ 14360'
1700 SX

T.D. @ 14619'



PRESSURE MAINTENANCE WELL

22" HOLE

16"-54 #/FT. @ 42'
3 CU. YDS. REDI-MIX

MOBIL LEA STATE #8 PMW
ARMSTRONG ENERGY CORPORATION
330' FSL & 1650' FWL
SE/SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

14 3/4" HOLE

API No.: 30-025-32310

SPUD DATE: 12/7/93

WELL TYPE: OIL WELL

T/ANHYDRITE @ 1595'
B/ANHYDRITE @ 1710'
T/SALT @ 1710'

9 5/8"-36 #/FT. @ 1700'
850 SX. + 200SX.
CIRC. 135 SX.

CONDUCTOR PIPE:

CASING: 16"-54 #/FT. @ 42'
HOLE: 22" HOLE
CEMENT: 3 CU. YDS. REDI-MIX
T.O.C.: CIRC.

SURFACE CASING:

CASING: 9 5/8"-36 #/FT. @ 1700'
HOLE: 14 3/4" HOLE
CEMENT: 1100 SX.
T.O.C.: CIRC.

8 3/4" & 7 7/8" HOLE

LONG STRING:

CASING: 5 1/2"-15.5 #/FT. @ 6100'
HOLE: 8 3/4" & 7 7/8" HOLE
CEMENT: 450 SX
2ND STAGE: D.V. TOOL @ 5166'
CEMENT: 1600 SX.
T.O.C.: CIRC.
TOTAL DEPTH: 5200'

B. SALT 3431'
YATES @ 3612'

INJECTION ZONES: 3RD SAND CHERRY CANYON

SEVEN RIVERS @ 3835'

ORDER No.: R-10541-A

QUEEN @ 4655'

2 7/8" 6.5 #/FT. J-55 TUBING, FREECOM CERAMIC COATING

DISTANCE FROM MOBIL LEA STATE #3
N-S -660 FT.
E-W 780 FT.
DIAGONAL 1021.76 FT.

GRAYBURG @ 5050'

SAN ANDRES 5300'

D.V. TOOL @ 5239'
375 SX. + 1050 SX + 100 SX.
CIRC. 55 SX.

DELAWARE @ 5596'

ON/OFF TOOL WITH PROFILE NIPPLE
5880' BAKER LOCKSET PACKER - NICKLE PLATED

5588
5936

5930'-5990', 2 JSPF, ACIDIZE W/ 3000 GALS. 7 1/2% NEFE ACID, FRAC W/
20,000 GALS CARRYING 45,000# 20-40 SAND

5 1/2"-15.5 #/FT. @ 6100'
250 SX CIRC. 55 SX.

FEDERAL 11 20 34 #7
SAMSON RESOURCES CO.
330' FNL & 330' FWL
NW/NW
SECTION 11-T20S-R34E
LEA COUNTY, N.M.

API No. 30-025-36300

SPUD DATE: 8/16/03

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8-54.5 #/FT. @ 1609'
HOLE: 17 1/2" HOLE
CEMENT: 1275 SX.
T.O.C.: CIRC.

INTERMEDIATE CASING:

CASING: 8 5/8"-32 #/FT. @ 4979'
HOLE: 11" HOLE
CEMENT: 1140 SX.
T.O.C.: 427'

LONG STRING:

CASING: 5 1/2"-17 #/FT. @ 6310'
HOLE: 7 7/8" HOLE
CEMENT: 235 SX
T.O.C.: 4330'
TOTAL DEPTH: 6310'

PRODUCTION ZONES: CHERRY CANYON

DISTANCE FROM MOBIL LEA STATE #3
N-S 1320 FT.
E-W 540 FT.
DIAGONAL 1426.18 FT.

PUMP 170 SX
PERF @ 340'

25 SX PLUG 605'-350'

40 SX PLUG 1681', TAG @ 1502'

13 3/8"-54.50 #/FT @ 1609'
1275 SX, CIRC.

PLA

CIBP @3450', 25 SX , TOC @ 3200'

3500-3510'

3710-3720'

60 SX PLUG @ 4250-3708'

PERF 4200', CIRC. 500 SX CEMENT
TOC @ 4330'

25 SX PLUG @ 5027', TAG @ 4900'

8 5/8"-32 #/FT. @ 4979'
1140 SX
TOC @ 427'

25 SX PLUG 5234-5484'

CIBP @ 5484' W/ 20' CEMENT
5526-5536'

CIBP @ 5780'
5824-5834' & 5886-5896'
5980-6000'

5 1/2"-17 #/FT. @ 6310'
235 SX

17 1/2" HOLE

RUSTLER 1590'

11" HOLE

YATES @ 3486'

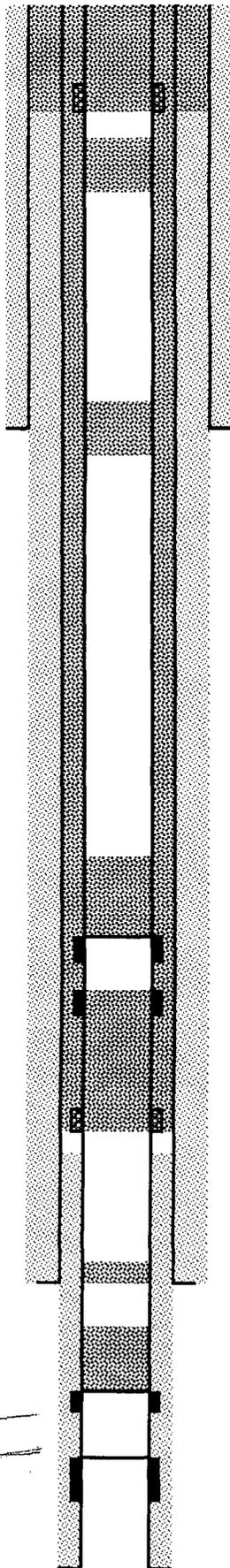
SEVEN RIVERS @ 3828'

QUEEN @ 4628'

SAN ANDRES 5150'
7 7/8" HOLE

DELAWARE @ 5476'

5578
5936



FEDERAL 11 20 34 #8
SAMSON RESOURCES
510' FNL & 810' FWL
NW/NW
SECTION 11-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-38511

SPUD DATE: 11/7/88

WELL TYPE: GAS WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. @ 1665'
HOLE: 17 1/2" HOLE
CEMENT: 1545 SX
T.O.C.: CIRC. 132 SX.

INTERMEDIATE CASING:

CASING: 9 5/8"-40 #/FT. @ 5462'
HOLE: 12 1/4" HOLE
CEMENT: 1980 SX 2-STAGE
T.O.C.: 1900'

LONG STRING:

CASING: 5 1/2"-20 #/FT @ 13,698'
HOLE: 8 3/4" HOLE
CEMENT: 2085 SX
T.O.C.: 3300'

TOTAL DEPTH: 13,700'

PRODUCTION ZONES:

PRODUCED MORROW

DISTANCE FROM MOBIL LEA STATE #3
N-S 1500 FT.
E-W 60 FT.
DIAGONAL 1501.20 FT.

17 1/2" HOLE

13 3/8"-54.5 #/FT. @ 1665'
1545 SX
CIRC. 132 SX.
TOC @ 1900'

12 1/4" HOLE

9 5/8" @ 5462'
1980 SX 2-STAGE
TOC @ 1900'

8 3/4" HOLE

13045-13054
13190-13248
13287-13359

5 1/2"-20 #/FT @ 13,698'
2085 SX
TOC @ 3300'
T.D. @ 13,700'

BONE SPRINGS 8217

WOLFCAMP 11,089

MORROW 13,024

5578
5936

17 1/2" HOLE
13 3/8" - 54.5#/FT. @ 420'
140 SX + 240 SX
CIRC. 48 SX.

EAGLE 2 STATE #2
SAMSON RESOURCES
1980' FSL & 660' FWL
NW//SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-37863

SPUD DATE: 6/13/2007

WELL TYPE: OIL WELL

SURFACE CASING:
CASING: 13 3/8" - 54.5 #/FT. @ 420'
HOLE: 17 1/2" HOLE
CEMENT: 140 SX + 240 SX
T.O.C.: CIRC. 48 SX.

12 1/4" HOLE

INTERMEDIATE CASING:
CASING: 9 5/8" - 40 #/FT. @ 5425'
HOLE: 12 1/4" HOLE
CEMENT: 1810 SX.
T.O.C.: CIRC.

LONG STRING:
CASING: 5 1/2" - 20 #/FT @ 13,750'
HOLE: 8 3/4" HOLE
CEMENT: 1000 SX + 1075 SX
T.O.C.:

TOTAL DEPTH-13,750'

PRODUCTION ZONES:
TESTED MORROW
PRODUCING BONE SPRING

DISTANCE FROM MOBIL LEA STATE #3
N-S 990 FT.
E-W 210 FT.
DIAGONAL 1012.03 FT.

SEVEN RIVERS

DELAWARE

5578
5936

9 5/8" @ 5328'
1810 SX.
CIRC.

8 3/4" HOLE

BONE SPRINGS

9541-9885'

9898-9912'

10,830-10,836'
10,920-10,934'

WOLFCAMP

CIBP @ 13,146 W/ 35' CEMENT
13,168-13,172'
13,250-13,316'

13,506-13,582'

5 1/2" - 20 #/FT @ 13,750'
2075 SX
T.O. @ 13,750'

17 1/2" HOLE

13 3/8"-54.5 #/FT. @ 422'
250 SX + 150 SX
CIRC. 71 BBLs.

EAGLE 2 STATE #5
SAMSON RESOURCES
580' FSL & 2105' FWL
SE//SW
SECTION 2-T20S-R34E
LEA COUNTY, N.M.

API No.: 30-025-38451

SPUD DATE: 7/23/2007

WELL TYPE: OIL WELL

SURFACE CASING:

CASING: 13 3/8"-54.5 #/FT. @ 422'
HOLE: 17 1/2" HOLE
CEMENT: 400 SX
T.O.C.: CIRC. 71 BBLs.

INTERMEDIATE CASING:

CASING: 9 5/8"-40 #/FT. @ 5430'
HOLE: 12 1/4" HOLE
D.V. TOOL: 3670'
1ST STAGE: 580 SX., CIRC. 168 SX.
2ND STAGE: 1080 SX., CIRC. 142 SX.
T.O.C.: CIRC. 318 BBLs.

LONG STRING:

CASING: 5 1/2"-17 #/FT @ 11,150'
HOLE: 8 3/4" HOLE
CEMENT: 1350 SX
T.O.C.: 5000'

TOTAL DEPTH: 11,150'

PRODUCTION ZONES:
BONE SPRING

DISTANCE FROM MOBIL LEA STATE #3
N-S -410 FT.
E-W 1235 FT.
DIAGONAL 1301.28 FT.

12 1/4" HOLE

DV TOOL @ 5430'
2ND 980 SX. + 100 SX.

TOC @ 4150' EST.

9 5/8" - 40 #/FT. @ 5430'
1ST 310SX. + 270 SX
CIRC.

8 3/4" HOLE

5 1/2" X 8 3/4" = .2526 CU. FT./FT.

560 X 2.00 = 1120 CU. FT.
790 X 1.70 = 1343 CU. FT.

2463 X .75 / .2526 = 7300 FT. FILL
11,150-7300= 4150'

SEVEN RIVERS +/-4000'

DELAWARE 5437'

5578

5936

BONE SPRINGS 8011'

BONE SPRING SAND 9515'

9520-9684'

10,930-11,044'

WOLFCAMP +/-11,000'

5 1/2"-17 #/FT @ 11,150'
560 SX. + 790 SX
T.D. @ 11,150'

VI. TABULATION OF WELL DATA

Exhibit	API Number	Original Operator	Lease Name	#	LOCATION	Field Name	TD	Formation at TD	Elevation	Datum	Date Spud	Latitude	Longitude
A	3002531696	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	1	2K-T20S-R34E	LEA NORTHEAST	6,289	DELAWARE	3,682	KB	30-Sep-92	32.59966	-103.53259
B	3002531928	ARMSTRONG ENRGY CORP	MOBIL-LEA STATE A	2	2L-T20S-R34E	LEA NORTHEAST	6,256	DELAWARE	3,678	KB	19-Mar-93	32.59966	-103.53580
C	3002532105	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	3	2M-T20S-R34E	LEA NORTHEAST	6,300	DELAWARE	3,671	KB	05-Aug-93	32.59743	-103.53620
D	3002532310	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	4	2N-T20S-R34E	LEA NORTHEAST	6,285	DELAWARE	3,677	KB	07-Dec-93	32.59788	-103.53327
E	3002532466	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	5	2E-T20S-R34E	LEA NORTHEAST	6,058	DELAWARE	3,687	KB	26-Mar-94	32.60264	-103.53619
F	3002532914	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	7	2E-T20S-R34E	LEA NORTHEAST	8,320	BONE SPRING	3,694	KB	15-Apr-95	32.60395	-103.53794
G	3002529204	SPECTRUM 7 EXPL CO	MOBIL STATE A	1	2J-T20S-R34E	LEA	10,800	BONE SPRING	3,687	KB	16-Apr-85	32.60015	-103.52828
H	3002529704	SPECTRUM 7 EXPL CO	MOBIL STATE A	2	2N-T20S-R34E	LEA CO UNDESIGNTD	6,100	GRAYBURG	3,669	KB	12-Jun-86	32.59653	-103.53259
I	3002502410	LANG-SCHLACHER	FEDERAL P	1	3P-T20S-R34E	QUAIL RIDGE	3,759	UNKNOWN	3,654	DF	26-Mar-56	32.59653	-103.54117
J	3002531818	READ & STEVENS INC	MARK FEDERAL A	4	3P-T20S-R34E	QUAIL RIDGE	6,480	DELAWARE	3,664	KB	27-Oct-93	32.59743	-103.54009
K	3002532158	READ & STEVENS INC	MARK FEDERAL A	8	3I-T20S-R34E	QUAIL RIDGE	6,349	DELAWARE	3,673	KB	31-Aug-93	32.59925	-103.54009
L	3002531822	READ & STEVENS INC	NORTH LEA FEDERAL A	10	10A-T20S-R34E	QUAIL RIDGE	6,488	DELAWARE	3,658	KB	11-Feb-93	32.59290	-103.54223
M	3002502426	NATIONAL COOPER REF	FEDERAL A	1	11E-T20S-R34E	LEA	14,619	UNKNOWN	3,666	DF	04-Nov-60	32.58927	-103.53152
N	3002533596	ARMSTRONG ENRGY CORP	MOBIL LEA STATE A	8	2N-T20S-R34E	LEA NORTHEAST	6,275	DELAWARE	3,677	KB	19-Aug-2002	32.59578	-103.53367
O	3002533000	SAMSON RESOURCES CO	FEDERAL-11-20-34 P	7	11D-T20S-R34E	LEA NORTHEAST	6,310	DELAWARE	3,678	KB	16-Aug-2003	32.59396	-103.53796
P	3002538611	SAMSON RESOURCES CO	FEDERAL 11 A	8	11D-T20S-R34E	LEA	13,700	PENNSYLVANIAN	3,652	GR	14-Dec-2007	32.59347	-103.53640
Q	3002537863	SAMSON RESOURCES CO	EAGLE 2 STATE A	2	2L-T20S-R34E	LEA	13,750	MORROW	3,670	GR	13-Jun-2007	32.60031	-103.53688
R	3002538451	SAMSON RESOURCES CO	EAGLE 2 STATE A	5	2N-T20S-R34E	LEA	11,150	BONE SPRING	3,662	GR	23-Jul-2007	32.59647	-103.53219

15

4

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ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
 990' FSL & 870 FWL
 SECTION 2-T20S-R34E
 LEA COUNTY, NEW MEXICO

VII. PROPOSED OPERATION:

VOLUME OF FLUID TO BE INJECTED: AVERAGE DAILY RATE 500 BHPD
 MAXIMUM DAILY RATE 700 BHPD

SYSTEM TYPE: CLOSED

INJECTION PRESSURE: AVERAGE INJECTION PRESSURE 1000 PSI
 MAXIMUM INJECTION PRESSURE 1116 PSI (5578' X .2 PSI/FT.)

WATER SOURCE: PRODUCED DELAWARE WATER FROM WELLS IN SECTIONS 1, 2, 3 & 10
 T20S-R34E AND QUEEN WATER FROM SEC. 25-T19S-R34E

WATER ANALYSIS: MOBIL LEA STATE #1 12/9/92

TOTAL HARDNESS	1820.00	me/l
CALCIUM	32076.98	mg/l
MAGNESIUM	2673.31	mg/l
IRON	30.00	mg/l
SODIUM	44604.19	mg/l
CHLORIDE	1321995.38	mg/l
SULFATE	550.00	mg/l
CARBONATE	0.00	mg/l
BICARBONATE	183.04	mg/l
TOTAL SOLIDS	213112.90	mg/l
CARBON DIOXIDE	217.80	mg/l
pH	6.65	
SPECIFIC GRAVITY	1.14	
TDS	213115.89	
RESISTIVITY	0.057	@ 70 DEGREES

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #8 PMW
990' FSL & 870 FWL
SECTION 2-T20S-R34E
LEA COUNTY, NEW MEXICO

VIII. GEOLOGICAL DATA:

GEOLOGICAL NAME: DELAWARE - CHERRY CANYON

LITHOLOGICAL DETAIL: PRIMARILY SANDSTONES INTERBEDDED WITH LIMESTONE AND SHALE.

FORMATION TOP: CHERRY CANYON - TOP @ -1899' - THIRD SAND @ -2239
(MOBIL LEA STATE #3 LOG)

THICKNESS: 358 FT, 5578' - 5936'

GEOLOGICAL DATA OF DRINKING WATER ZONE: THE UNDERGROUND SOURCE OF DRINKING WATER IN THE AREA IS THE "CHINLEE", FORMATION WHICH OCCURS AT 65'-200' AND IS APPROXIMATELY 100'-150' THICK. THE CLOSEST FRESHWATER WELL IS THE ROBERTS WELL LOCATED ONE AND ONE-HALF MILES WEST IN THE SE/SE SECTION 4-T20S-R34E. THE STATE ENGINEERS OFFICE INDICATES THAT THERE ARE ONLY MINOR ISOLATED ACCUMULATIONS OF FRESH WATER IN THIS AREA AND THERE ARE NO WELLS WITHIN ONE MILE OF THE PROPOSED WELL.

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
990' FSL & 870 FWL
SECTION 2-T20S-R34E
LEA COUNTY, NEW MEXICO

IX. STIMULATION PROGRAM:

ACID BREAKDOWN: 5578-5726' 2000 GALS. 7 1/2% NEFE ACID
5918-5936' 3000 GALS. 7 1/2% NEFE ACID

FRACTURE STIMULATION: 5578-5726' 60,000 GALS. & 158,500# 16/30 SAND 7 1/2% NEFE ACID
5918-5936' 47,400 GALS. & 47,400# 16/30 SAND

X. LOGGING AND TEST DATA: LOGS RUN ON THIS WELL INCLUDE: GR, CNL, FDC, PE,
DLL AND MLL
RUN ON: 8-21-1993

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
 990' FSL & 870 FWL
 SECTION 2-T20S-R34E
 LEA COUNTY, NEW MEXICO

XI. ANALYSIS OF FRESH WATER WELLS:

THE CLOSEST SOURCE OF FRESH WATER IS A WINDMILL USED FOR LIVESTOCK WATERING LOCATED IN THE SE/SE OF SECTION 4-T20S-R34E. THIS IS CALLED THE ROBERTS WELL AND IT IS APPROXIMATELY ONE AND ONE-HALF MILES WEST OF THE PROPOSED PRESSURE MAINTENANCE WELL. A CHECK (10/31/95) BY ARMSTRONG ENERGY'S PUMPER INDICATED THIS WELL IS CAPPED AND WATER IS BEING PIPED TO THIS STOCK TANK FROM A SOURCE APPROXIMATELY TWO AND ONE-HALF MILES NORTH NORTHEAST OF THIS SITE. A SAMPLE OF THIS WATER WAS ANALYZED AND THE RESULTS ARE INCLUDED.

THE NEW MEXICO STATE ENGINEERS OFFICE IN ROSWELL, INDICATES THERE IS ONLY LIMITED AMOUNTS OF FRESH WATER IN THE AREA AND THE ROBERTS WELL IS THE CLOSEST SOURCE OF FRESH WATER. THEY INDICATE THE ROBERTS WELL WAS DRILLED TO A DEPTH OF 200 FEET AND PRODUCES WATER FROM THE CHINLEE FORMATION. IN JANUARY 1986 THE WELL HAD A FLUID LEVEL OF 125.86 FEET FROM THE SURFACE. THIS WELL IS CURRENTLY NOT PRODUCING.

SAMPLE FROM THE ROBERTS WELL STOCK TANK
 ANALYZED BY BAKER PETROLEUM CHEMICALS, INC.

11/01/95

ANALYSIS # 4462

TOTAL HARDNESS	1.00 me/l
CALCIUM	20.00 mg/l
MAGNESIUM	0.00 mg/l
IRON	0.00 mg/l
SODIUM	4452.80 mg/l
CHLORIDE	5000.00 mg/l
SULFATE	660.00 mg/l
CARBONATE	600.00 mg/l
BICARBONATE	1220.00 mg/l
TOTAL SOLIDS	11952.80 mg/l
CARBON DIOXIDE	0.00 mg/l
pH	7.70
SPECIFIC GRAVITY	1.00
TDS	11952.80 PPM

SAMPLE FROM THE ROBERTS WELL STOCK TANK
 ANALYZED BY CARDINAL LABORATORIES

07/01/10

ANALYSIS # H20259

CALCIUM	41.70 mg/l
MAGNESIUM	10.70 mg/l
SODIUM	36.00 mg/l
CHLORIDE	28.00 mg/l
SULFATE	89.50 mg/l
CARBONATE	4.00 mg/l
BICARBONATE	112.00 mg/l
pH	8.13
TDS	248.00 PPM

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
990' FSL & 870 FWL
SECTION 2-T20S-R34E
LEA COUNTY, NEW MEXICO

XII. COMMUNICATION WITH SOURCES OF DRINKING WATER:

AFTER EXAMINING ALL AVAILABLE GEOLOGICAL AND ENGINEERING DATA, WE FIND NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE INJECTION ZONE AND ANY UNDERGROUND SOURCE OF DRINKING WATER.

ARMSTRONG ENERGY CORPORATION

MOBIL LEA FEDERAL #3 PMW
990' FSL & 870 FWL
SECTION 2-T20S-R34E
LEA COUNTY, NEW MEXICO

XIII. NOTICE

A COPY OF OUR APPLICATION HAS BEEN FURNISHED BY CERTIFIED MAIL TO THE SURFACE OWNER AND TO EACH LEASEHOLD OPERATOR WITHIN ONE-HALF MILE OF OUR PROPOSED PRESSURE MAINTENANCE WELL. SEE LISTING ON EXHIBIT "A".

OPERATORS

SAMSON RESOURCES COMPANY
200 N. LORAIN, SUITE 1010
MIDLAND, TX 79701

MR. JOHN MAXEY
READ & STEVENS, INC.
P.O. BOX 1518
ROSWELL, NM 88202-1518

MERIT ENERGY COMPANY, LLC
13727 NOEL ROAD, SUITE 500
TOWER 2
DALLAS, TX 75240

SURFACE

MR. JIM STOVALL
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
620 E. GREENE ST.
CARLSBAD, NM 88220-6292

MR. KENNETH SMITH
KENNETH SMITH, INC.
267 SMITH RANCH ROAD
HOBBS, NM 88240

STATE LEASE: GT2922

MR. PATRICK H. LYONS
NEW MEXICO STATE LAND OFFICE
P.O. BOX 1148
SANTA FE, NM 87504-1148

Affidavit of Publication

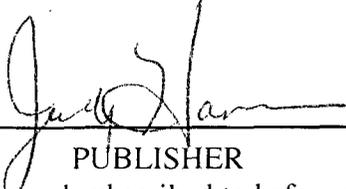
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

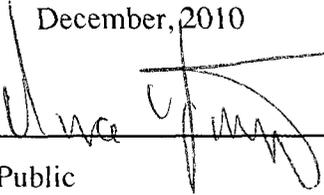
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
December 30, 2010
and ending with the issue dated
December 30, 2010


PUBLISHER

Sworn and subscribed to before me
this 30th day of
December, 2010


Notary Public

My commission expires
February 09, 2013
(Seal)



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

LEGAL NOTICE
DECEMBER 30, 2010
NOTICE IS HEREBY GIVEN that Armstrong Energy Corporation, P.O. Box 1973, Roswell, NM 88202-1973, has submitted an Application for Authorization to Inject the Mobil Lea State #3.
Armstrong proposes to expand injection into the Cherry Canyon formation by converting the Mobil Lea State #3 well to injection. The well is located in Township 20 South, Range 34 East, Section 2, 990' FSL & 870' FWL in Lea County, New Mexico. The Formation is the Cherry Canyon in the NE Lea Delaware Field. Injection will be into perforations in the interval 5578-5936', the anticipated injection rate is 500 BWPD at 1000 psi.
An objection to this application or a request for hearing must be filed with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days of this notice. Should you have any questions, please contact Bruce Stubbs with Armstrong Energy Corporation at 575-625-2222.
#26298

67107061 00065480
IRMA CUNNINGHAM
ARMSTRONG ENERGY CORP
PO BOX 1973
ROSWELL, NM 88203

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. John Maxey
Read & Stevens, Inc.
P.O. Box 1518
Roswell, NM 88202-1518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 L. Roderer Agent
 Addressee

B. Received by (Printed Name)
L. Roderer

C. Date of Delivery
12-29-10

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7006 3450 0001 4289 4531**

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Samson Resources Company
200 N. Loraine, Suite 1010
Midland, TX 79701

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 W. Kemper Agent
 Addressee

B. Received by (Printed Name)
W. Kemper

C. Date of Delivery
12-28-10

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7008 2810 0001 9033 7522**

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Jim Stovall
Bureau of Land Management
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 J. Stovall Agent
 Addressee

B. Received by (Printed Name)
Joe Salcedo

C. Date of Delivery
12-28-10

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) **7007 2560 0002 2220 5262**

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Merit Energy Company, LLC
13727 Noel Road, Suite 500
Tower 2
Dallas, TX 75240

2. Article Number

(Transfer from service label)

7008 2810 0001 9033 5009

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *J. Anderson* Agent Addressee

B. Received by (Printed Name)

J. Anderson

C. Date of Delivery

*11/16/11*D. Is delivery address different from item 1? YesIf YES, enter delivery address below: No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Patrick H. Lyons
New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

2. Article Number

(Transfer from service label)

7007 2560 0002 2220 5293

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* Agent Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

*7/5/10*D. Is delivery address different from item 1? YesIf YES, enter delivery address below: No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Kenneth Smith
Kenneth Smith, Inc.
267 Smith Ranch Road
Hobbs, NM 88240

2. Article Number

(Transfer from service label)

7007 2560 0002 2220 5255

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Kathy Smith* Agent Addressee

B. Received by (Printed Name)

KATHY Smith

C. Date of Delivery

*12/30/10*D. Is delivery address different from item 1? YesIf YES, enter delivery address below: No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT SUMMARY PAGE

Nature of Permit
 New Permit
 Amend Existing Permit
 Injection Pressure Increase
 Renew Discharge Plan
 Other(Specify) _____

Number of Wells
 Single Well
 Multiple Wells
 Specify Number Wells _____

Approval Process
 Administrative Hearing
 If Hearing:
 Case No. _____
 Order No. R- _____

OCD Standing
 Inactive Wells
 Financial Assurance

Reviewer
 Ezeanyim
 Brooks
 Jones
 Warnell

Quarter in which Permit Issued
 1st (October-December)
 2nd (January-March)
 3rd (April-June)
 4th (July-September)

Type of Permit
 SWD Well
 Waterflood or Pressure Maintenance Injection Well
 Class III Brine Well
 Other(Specify) _____

Final Outcome
 Application Approved
 Application Denied
 Application Returned

PMX Permit Type 257 Permit Number 21771b Permit Date Armstrong Operator 1092 OGRID Number

Area of Review (AOR) Well Data

Area of Review Wells
 18 Total Number of Area of Review Wells
 4 Plugged and Abandoned Area of Review Wells
 14 Active Area of Review Wells

Perfs 5578-5936

Area of Review Wells to be Repaired
 P&A Wells
 Active Wells

Injection/Disposal Well Classification

New Wells (Wells were Drilled After March 7, 1982 - New Mexico Primacy Date)
 Existing Wells (Wells that were Drilled Prior to March 7, 1982)