

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

APR 14 2008

WELL API NO. 30-025-24021 ✓
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Arrowhead Grayburg Unit ✓
8. Well Number #146 ✓
9. OGRID Number 005380 ✓
10. Pool name or Wildcat Arrowhead ; Grayburg ✓

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
MULTIPLE COMPLETION <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CEMENT JOB <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Intent procedure to plug and abandon well:

1. RUPU. Install BOP. TIH w/2-7/8" tbg 7 notched collar to 3550'. Pull notched collar to 3525'. Spot plugs as follows: (Note: rev circ clean w/Polymer Starch Salt Gel)
 - a. 25 sx CL C w/3% calcium chloride plug from 3550-3440' ✓
 - b. Pull up to 3000' & circ clean. Wait about 4 hrs. Drop dwn & tag cmnt. Must have cmnt above 3400'.
 - c. Spot 25 sx plug @ 3348'. Rev circ clean ✓
 - d. Spot 25 sx plug @ 2647'. Rev circ clean
- See attached

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Sherry Pack TITLE Regulatory Analyst DATE 4/11/2008
E-mail address: sherry_pack@extoenergy.com
Type or print name Sherry Pack Telephone No. 432.620.6709

For State Use Only

APPROVED BY Chris Williams TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE APR 24 2008

Conditions of Approval, if any:

THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
BEGINNING OF PLUGGING OPERATIONS



Arrowhead Grayburg Unit 146
LEA COUNTY, NEW MEXICO
API #30-025-24021

Form C-103 Intent to Plug and Abandon continued

- e. Spot 25 sx plug at 2480' Rev Circ Clean. ✓
SQZ. Perf @ 1106'
 - f. Spot 25 sx plug at 1106' Rev Circ Clean. WOC, TAG.
SQZ Perf @ 415'
 - g. Spot 25 sx plug at 415' Rev Circ Clean. WOC TAG.
 - h. Pull out of hole. Wait on Cement. TIH and tag cement top. Should be 308' or higher. POH.
 - i. Spot 10 sx plug at surface.
 - j. POH and lay down all equipment and tubulars
3. If complete, weld 4' riser on wellhead and rig down off well. Clean-up location.

AGU #146

WELLBORE DIAGRAM

WELL DATA SHEET

FIELD: Arrowhead

WELL NAME: AGU No. 146 WIC
[Orig. H T. Mattern (NCT-F) #2]

FORMATION: Grayburg

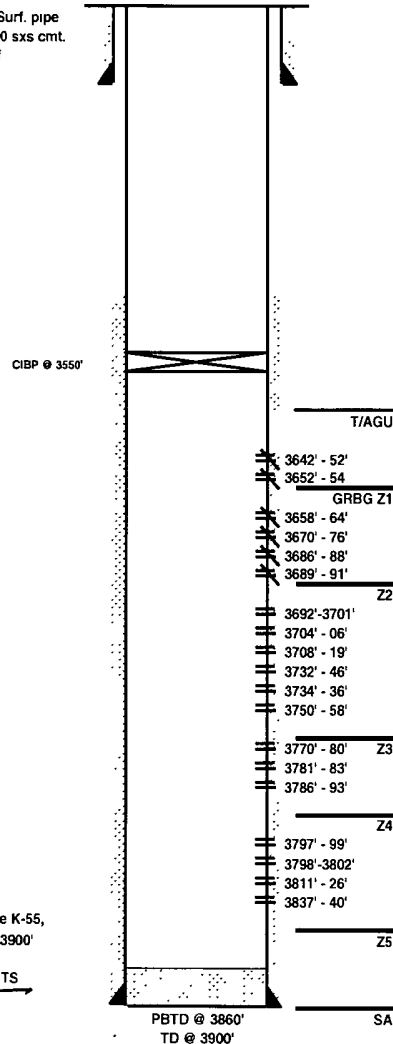
LOC 660' FNL & 660' FEL
TOWNSHIP 22-S
RANGE 36-E

SEC. 1
COUNTY Lea
STATE: NM

GL 3476'
KB to GL: 12.5'
DF to GL: 11.5'

CURRENT STATUS: Injector
API NO: 30-025-24021
CHEVNO: FG9492

8-5/8" OD, 24# Surf. pipe
set @ 358' w/ 200 sxs cmt.
Circ cmt to surf



5-1/2" OD, Grade K-55,
15 5# csg set @ 3900'
w/425 sxs cmt.
TOC @ 2153' by TS

FILE: WBS146.XLS
Chay: 5-14-04

DATA

Date Completed: 02/14/72

Initial Production: 62 BOPD / 8 BWPD

Initial Formation: Grayburg From: 3652' To: 3799'

Completion Data:

Perf 3652-54' (Zn 1), 3704-06', 3734-36' (Zn2), 3797-99' (Zn 4). ACDZ w/ 500 gals. Frac'd w/ 5000 gals GBW w/1-3 #'s spg. Completed pumping.

Workover History:

08-12-80 Dump acid w/1000 gals 15%.

04-15-92 POOH w/ prod. equip and clean scale to PBTD. Run TDT-GR-CCL log. Perf 3837-40', 3811-26' (Zn 5), 3798-3802', 3786-93' (Zn 4), 3770-80', 3750-58', 3732-46'(Zn3), 3708-19', 3692-3701', 3686-88' (Zn2), 3670-76', 3658-64', & 3642-52' (Zn1). Set pkr @ 3595' & ACDZ 3642' - 3840' w/ 3000 gals 15% HCL, no ball action. Swb 11 BF (10% OC last run) / 8 runs in 3 hrs., SWB DRY; FFL @ SN 3588', FER 300 BPH. RIH w/ injection equip. and TO to production. Initial injection rate/pressure 974 BWIPD/tbg on vacuum.

01-20-98 Replace top 320' of 15.5 Buttress THD Csg w/15.5 k-55 LT&C 8RD csg. Sqz perfs 3642-91' w/250 sx class C cmt. 235 sx in Form.

6-23-03 POOH w/ pkr, Set CIBP @ 3550', Circ well w/Pk FI, Tst csg to 540 PSI, Good tst. Well TA'd.

Additional Data:

T/Queen @ 3348'

T/Penrose @ 3438'

T/AGU @ 3626'

T/Grayburg Zone 1 @ 3655'

T/Grayburg Zone 2 @ 3692'

T/Grayburg Zone 3 @ 3762'

T/Grayburg Zone 4 @ 3796'

T/Grayburg Zone 5 @ 3846'

T/San Andres @ 3878'

TD @ 3900'