

C/S F

Form 3160-5  
(November 1994)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

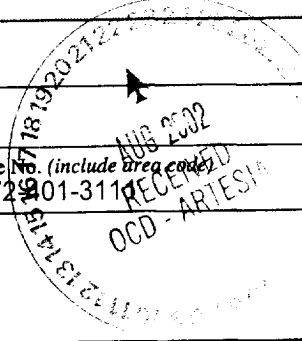
C. Cons.  
N.M. Div-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210  
FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996  
108 Serial No.  
LC-067132

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator Gruy Petroleum Management Co.		7. If Unit or CA/Agreement, Name and/or No. SCR - 150
3a. Address P. O. Box 140907 Irving, TX 75014-0907	3b. Phone No. (include area code) 972-9401-3114	8. Well Name and No. Empire 20 Federal Com 2
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FSL & 1650' FEL Sec. 20 T18S - R29E		9. API Well No. 30-015-31046
		10. Field and Pool, or Exploratory Area Turkey Track, Morrow North
		11. County or Parish, State Eddy Co. NM

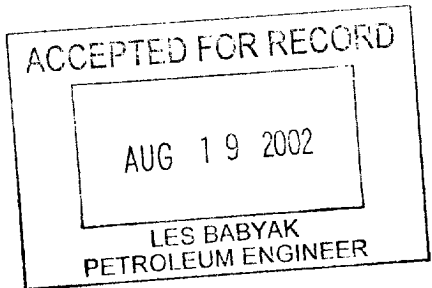


**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Squeeze Atoka</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Frac Morrow</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Squeezed Atoka perfs w 100 sx Class H, Fracture treated Morrow formation and brought on line.  
See Attached detaled procedure.



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Zeno Farris	Title Manager Operations Administration
Signature <i>Zeno Farris</i>	Date August 5, 2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

# Gruy Petroleum Well History Report

**WellNo** 75261 **State:** NM  
**WellName** Empire 20 Federal Com #2 **County** EDDY  
**Operator** Gruy Petroleum Management Inc.  
**API No** 30-015-31046

## ReportDat ReportText

6/28/01 MIRU WOU. 500# TP. 300# CP. Bleed pressure off well. Pump 40 bbls 7% KCL wtr down tbg & 45 bbls down csg. ND tree. NU BOP. Release 5 1/2" Uni III pkr & POOH LD production string. Move production string off racks & off-load 2 7/8" workstring. SWIFN.

6/29/01 PU RBP, packer, & 2 7/8" N-80 tbg & RIH to 10,750' & set RBP. Set packer & test to 2000#. Spot 2 sx sand & establish inj rate .25 BPM @ 1850#. POOH. SWIFN.

6/30/01 RIH w/ cement retainer. Pump 60 bbls 7% KCL thru retainer. Set retainer @ 10,620' & test tbg to 4000#. Pull out of retainer & pump until well circulated fluid. Sting into retainer & establish inj rate (.75 BPM @ 2600#). Pull out of retainer & mix 100 sx Class H cmt, 22 bbl slurry & spot @ 10,300'. Sting into retainer. Pump 5 bbls cmt slurry into formation. Pressured up to 3500#. SD. Washed pump & lines 10 min. Resume pumping. Pump .5 bbl slurry, pressure to 4040#. Pulled out of retainer. Reversed out 77 sx Class H cmt. POOH w/ 10 jts. RD Halliburton. SWIFN. Total sx into formation 18.2 sx, 5.5 bbls slurry. Sqzd to 4040#.

7/2/01 Swap out PU. RU. POOH w/ tbg & stinger. RIH w/ 4 3/4" bit & 6 - 3 1/2" drill collars & 2 7/8" work string. Tag up @ 10,617'. RU Star Tool. SWIFN.

7/3/01 Drill cement retainer & cement to 10682'. Pressure up on well to 2000# to test sqz. Held pressure for 5 min - ok. Circ sand off RBP. Pull 5 stands. SWI. Crew stayed to change out bad tubing line.

7/5/01 POOH w/ tbg & BHA for drill-out. Lay down BHA. RIH w/ retrieving head. Tag sand & circulate 232 bbls 7% KCL. Released RBP. POOH. SWIFN.

7/6/01 RIH with overshot and tubing, tag fish @ 11115'. RU wireline to 11,159'. chemical cut 2-2/8 tubing @ 11,158'. POOH with fish, laying dn. Workstring. Recovered 41.60' 2-3/8 tubing. Top 2-3/8 in well 11,156.60'. SWISD

7/9/01 PU 5 1/2 x 15.5 x 2 3/8" Guiberson Unit VI packer w/ 1.875 profile, XL on/off tool w/ 1.791 NoGo on bottom of packer & test to 9000#. PU & test 3 1/2" workstring. SWIFN.

7/10/01 Continue testing in hole w/workstring. Set packer @ 19826'. ND BOP & NU frac stack. Test held OK. Test packer to 1000# for 5 minutes - held OK. SWI. RDMO. Frac on Saturday.

7/14/01 MIRU WOU. RU Halliburton to fracture stimulate the Morrow w/ 20,000 gallons of waterfrac H 45 foamed to 65 quality w/ CO2 carrying 18,000# 20/40 Interprop.

Stage	Fluid	Conc	Rate	psi @ perms
Pad	65QWF45		26 BPM	6450#
SLF	65QWF45	.5-4% 20/40	21 BPM	8467#
Flush	65QWF45		19.6 BPM	8448#

ISIP 3755#, 5 min 2718#, 10 min 2355#, 15 min 2023#. Total load 219 bbls. 18,000# 20/40 Interprop. RD Halliburton. Flowback well w/ 1500# TP.

7/15/01 Flowback to pit.

7/16/01 See Production Watch Report.