

Form 3160-5  
(June 1990)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Doyle Hartman

## 3. Address and Telephone No.

500 N. Main St., Midland, Texas 79701 (915) 684-4011

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL &amp; 1980' FWL, Sec. 7, T-20-S, R-37-E, (K)

5. Lease Designation and Serial No.  
LC031621A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

H.M. Britt No. 5

9. API Well No.

30-025-05993

10. Field and Pool, or Exploratory Area

Eumont (Y-7R-Qn) Gas

11. County or Parish, State

Lea County, New Mexico

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

## TYPE OF SUBMISSION

- ☐
- Notice of Intent
- 
- ☒
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- ☐
- Abandonment
- 
- ☐
- Recompletion
- 
- ☐
- Plugging Back
- 
- ☐
- Casing Repair
- 
- ☐
- Altering Casing
- 
- ☒
- Other
- Wellbore Repair/

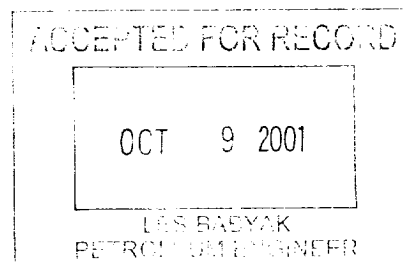
Restore Eumont Production

- ☐
- Change of Plans
- 
- ☐
- New Construction
- 
- ☐
- Non-Routine Fracturing
- 
- ☒
- Water Shut-Off
- 
- ☐
- Conversion to Injection
- 
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

For details of completed operations, please refer to pages 2 of 5, 3 of 5, 4 of 5, and 5 of 5 attached hereto, and made a part hereof.



14. I hereby certify that the foregoing is true and correct.

Signed

Title Steve Hartman, EngineerDate 09/18/01

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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.

\*See Instruction on Reverse Side

### DETAILS OF COMPLETED OPERATIONS

Rigged up well service unit. Ran 245.6' bottom-hole drilling assembly. Tagged top of 10/31/96 cement, at 1201'. Drilled cement (including Model K-1 retainer), from 1201' to 1312'. Lowered drilling assembly to 3000'. Drilled cement (including Model K-1 retainer), from 3000' to 3375'. Drilled out of hard cement, at 3360'. Tagged top of 7" CIBP, at 3710'.

Rigged up Schlumberger. Logged well with DS-CNL-GR-CCL log and VDCBL-GR-CCL log.

Ran 7" Model "C" RBP and 7" Model "C" packer. Successfully pressure tested 7" O.D. casing, as follows:

<u>INTERVAL</u>	<u>WHP (psig)</u>	<u>REMARKS</u>
0' to 3135'	2800	held okay
3205' to 3248'	2800	held okay
3265' to 3710'	2800	held okay

Determined location of 2-5-66 Eumont perforations, to be from 3135' to 3205', and 3248' to 3365'.

Pulled 7" Model "C" packer and 7" Model "C" RBP.

Ran 245.6' bottom-hole drilling assembly. Drilled on 7" CIBP, at 3710', for 1.33 hrs (until slips relaxed). Pushed CIBP to 3821'. Pulled bottom-hole drilling assembly.

Rigged up Capitan Corporation wireline truck. Set Halliburton 7" EZ-Drill cementing retainer, at 3743'. Squeeze cemented open-hole interval, from 3766' to 3857', with 166 sx of API Class-C cement containing 2% CaCl<sub>2</sub>, 0.25 lb/sx Pol-E-Flake, and 3 lbs/sx Gilsonite. Max squeeze pressure = 4200 psig.

Pulled out of retainer and displaced cement from 2 3/8" O.D. tubing, with 14.6 bbls of

water, due to inability to reverse out cement. Pulled 2 3/8" O.D. tubing.

Ran 245.6' bottom-hole drilling assembly. Drilled cement, from 2938' to 3100', and 3507' to 3743'. Circulated hole clean.

Hooked up air unit. Unloaded water from 7" O.D. casing.

Rigged up Capitan Corporation wireline truck. Re-perforated 7" O.D. casing, over original Eumont producing interval, with (24) 0.44" x 23" holes, with one shot each at:

3162	3192	3281	3301	3340
3164	3258	3284	3311	3344
3184	3262	3288	3312	3348
3186	3268	3294	3322	3364
3191	3270	3299	3325	

Acidized perforations, from 3162' to 3364', with 7000 gal. of 15% MCA acid.

Ran and landed 2 3/8" O.D. tubing, at 3624'. Ran 2" x 1 1/2" x 16' RWBC insert pump. Placed well to pumping, at 6.8 spm x 64" x 1 1/2".

Recovered 94 bbls of load water during 6-day pump test.

Moved in well service unit. Pulled rods and tubing. Perforated (12) 0.44" x 23" squeeze holes, from 3427' to 3523'. Acidized squeeze perfs, with 275 gal. of 15% MCA acid.

Set 7" Model "C" packer, at 2959'. Repaired existing cement, by squeeze cementing, from 3135' to 3523', with 600 sx of API Class-C neat cement, followed by 300 sx of API Class-C cement containing 2% CaCl<sub>2</sub>, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. ISIP = 3124 psi. 50-min SIP = 1836 psi. Pulled Model "C" packer.

Ran 185.27' bottom-hole drilling assembly. Tagged top of cement at 3066'. Drilled cement, from 3066' to 3545'. Lowered drilling assembly to 3743'. Circulated hole clean. Pulled bottom-hole drilling assembly.

Ran temperature log. Pressure tested squeeze perfs, from 3427' - 3523', to 2600 psi

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(1.21psi/ft). Pressure held okay.

Rigged up casing crew. Ran and landed 5" O.D., 15 lb/ft, J-55 liner (equipped with (20) 7" x 5" centralizers), from 2998' to 3742' (744'). Cemented 5" O.D. liner, at 6 BPM, with 75 sx of a 50-50 blend of Pozmix "A" and API Class-C cement, followed by 50 sx of API Class-C neat cement.

Released from liner. Pulled 2 3/8" O.D. tubing and liner-setting tool. Pressured 7" O.D. casing, to 750 psi, for 3 hours.

Released casing pressure. Ran bottom-hole drilling assembly. Tagged top of 50-50 Poz cement, at 2618'. Washed and drilled cement, from 2618' to 3723' (top of landing collar).

Rigged up Schlumberger. Logged well with VDCBL-GR-CCL log, from 2200' to 3722'. Tested 7" O.D. casing and 5" O.D. liner, to 2500 psi. Pressure held okay.

Rigged up Capitan Corporation. Perforated 5" O.D. liner, from 3551' to 3658', with (11) 0.38" x 19" squeeze holes. Acidized squeeze holes, with 250 gal. of 15% MCA acid.

Rigged up Capitan Corporation. Set Halliburton 5" EZ-Drill retainer, at 3546'. Acidized squeeze perfs, from 3551' to 3658', with an additional 200 gal. of 15% MCA acid. Cemented squeeze perfs, from 3551' to 3658', with 300 sx of API Class-C neat cement, followed by 400 sx of API Class-C cement containing 2%  $\text{CaCl}_2$ .

ISIP = 1468 psi  
10- min. SIP = 1312 psi

Stung back into retainer. Over displaced cement, with 40 bbls. of 2% KCL water.

Ordered additional cement. Cemented squeeze perfs, from 3551' to 3668', with an additional 102 sx of API Class-C cement containing 2%  $\text{CaCl}_2$ , 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, to a maximum squeeze pressure of 4413 psi. Reversed out 13.42 bbls. (57 sx) of cement.

Rigged up Capitan Corporation wireline truck. Perforated 5" O.D. liner, over original Eumont perforated interval, with (28) 0.38" x 19" production perfs, from 3152' to 3364'.

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Acidized Eumont perfs, from 3152' to 3364', with 6200 gal. of 15% MCA acid and 38 ball sealers, at an average treating rate of 5 BPM. TPmx = 2800 psi. ISIP = 532 psi. 2-min. SIP = 0 psi.

Ran and landed 2 3/8" O.D. tubing, at 3490'. Ran 2" x 1 1/4" x 12' RHAC inset pump and 3/4" rod string consisting of (134) 3/4" x 25' Axelson S-87 API Class-KD rods. Started pumping well, at 6.8 spm x 64" x 1 1/4". Over a 6-day test period, recovered 41 bbls of load water.

Performed pressure buildup. 72-hr. SICP = 92 psig.

Rigged up Halliburton. Performed CO<sub>2</sub> foam frac down casing-tubing annulus, from 3152' to 3364' (28 holes), utilizing 157,029 gal. of gelled water and CO<sub>2</sub> plus a total of 350,000 lbs. of 20/40, 10/20, and 8/16 frac sand, at an average treating rate of 30 BPM and average treating pressure of 1922 psi. Maximum WHTP = 2304 psi.

Cleaned out wellbore, to 3546'. Landed 2 3/8" O.D. tubing, at 3490' RKB. Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" API Class-KD rod string. Returned Eumont interval to active producing status, at 1:00 P.M., CDT, 5-31-01.