



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

January 23, 2003

Doyle Hartman
P O Box 10426
Midland TX 79702

RE: Britt A-6 #2
L-6-20s-37e
API #30-025-05938

Gentlemen:

The Oil Conservation Division Hobbs office after reviewing the well file for the Britt A-6 #2 is returning the attached forms with no approval. Per NSL-4773 (SD) this well cannot produce in the Eumont Yates Seven River Queen formation.

This well is to be shut-in until it is recompleted to another formation or until you come into compliance with the Eumont Gas pool rules. If you have any question on this matter, please call (505) 393-6161.

Yours truly,

OIL CONSERVATION DIVISION

A handwritten signature in cursive script, reading "Chris Williams".

Chris Williams
District I, Supervisor

CW:dm

CC: OCD-Hobbs
OCD-Santa Fe
BLM
State Land Office



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
BETTY RIVERA
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 4, 2002

Doyle Hartman, Oil Operator
P. O. Box 10426
Midland, Texas 79702
Attention: Steve Hartman

Telefax No. (915) 682-7616

Administrative Order NSL-4773 (SD)

Dear Mr. Hartman:

Reference is made to the following: (i) your application submitted to the New Mexico Oil Conservation Division ("Division") on August 15, 2002 (*application reference No. pKRV0-223138260*); and (ii) the records of the Division in Santa Fe, including the files on Division Case No. 5935 (which resulted in the issuance of Division Order No. R-5448) and Division Administrative Orders NSP-11 and SD-99-9: all concerning Doyle Hartman's request for five additional wells within an existing 320-acre non-standard gas spacing unit comprising the W/2 E/2 and E/2 W/2 of Section 7, Township 20 South, Range 37 East, NMPM, Eumont Gas Pool (76480), Lea County, New Mexico.

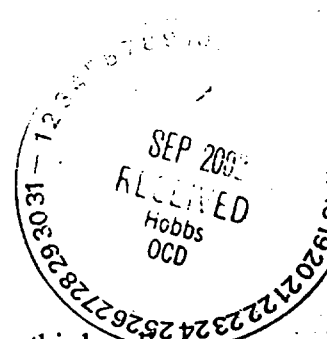
THE DIVISION DIRECTOR FINDS THAT:

(1) This 320-acre non-standard gas spacing unit was initially established by Division Order No. R-5448, issued in Case No. 5935 on June 8, 1977 and had dedicated thereon the following two wells:

(A) the original H. M. Britt Well No. 3 (API No. 30-025-05991) located at an unorthodox gas well location 2310 feet from the North line and 1650 feet from the East line (Unit G) of Section 7 (which unorthodox gas well location was also approved by Division Order No. R-5448); and

(B) the Britt Well No. 12 (API No. 30-025-05999) located at an unorthodox infill gas well location 330 feet from the North line and 2281 feet from the West line (Unit C) of Section 7 (which unorthodox well location was also approved by Division Order No. R-5448).

(2) By Division Administrative Order SD-99-9, dated August 23, 1999, a third well for this 320-acre unit, the H. M. Britt Well No. 1 (API No. 30-025-05972), located at a standard



infill gas well location 1980 feet from the North and West lines (Unit F) of Section 7 was approved.

(3) The subject application has been duly filed under the provisions of the "*Special Pool Rules for the Eumont Gas Pool*," as promulgated by Division Order No. R-8170-P, issued in Case No. 12563 on December 14, 2001.

(4) All five of the proposed wells that are the subject of this application are currently completed in the Eumont Gas Pool; only one however is currently producing.

(5) Four of the five wells that are the subject of this application were initially drilled and completed in deeper oil bearing intervals (four within the Eunice Monument-Grayburg-San Andres Pool and one in the Monument-Blinbry Pool). Only one well was drilled and completed as an infill Eumont gas well (completion date report, October 16, 2000).

(6) Two of the five infill gas well locations that are the subject of this application are considered to be unorthodox and three are standard [see Rule 3 (A) (2) of the special Eumont Gas Pool rules].

(7) Two of the five wells that are the subject of this application are located within quarter-quarter sections that already have a producing Eumont gas well. This will be a violation of Rule 3 (D) of the Eumont special pool rules.

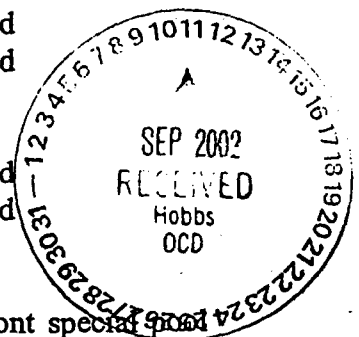
IT IS THEREFORE ORDERED THAT:

(1) Under the provisions of Rules 4 (B) and (D) of the special rules now governing the Eumont Gas Pool (76480), Doyle Hartman, Oil Operator is authorized to simultaneously dedicate gas production from the Eumont Gas Pool to its previously approved (see Division Order No. R-5448, issued in Case No. 5935 on June 8, 1977) 320-acre non-standard gas spacing unit comprising the W/2 E/2 and E/2 W/2 of Section 7, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, the two following-described wells:

(A) the H. M. Britt Well No. 4 (API No. 30-025-05992) located at a standard infill gas well location 660 feet from the North line and 1980 feet from the East line (Unit B) of Section 7; and

(B) the H. M. Britt Well No. 5 (API No. 30-025-05993) located at a standard infill gas well location 1980 feet from the South and West lines (Unit K) of Section 7.

(2) Under the provisions of Rules 4 (A), (B), and (D) of the Eumont special pool rules, Doyle Hartman's Britt Well No. 14 (API No. 30-025-35152), which well was drilled and



completed in September/October, 2000 at an unorthodox infill gas well location within the subject 320-acre unit 1400 feet from the South line and 2310 feet from the East line (Unit J) of Section 7 is hereby approved.

PLEASE NOTE HOWEVER THAT Doyle Hartman, as a prudent operator, should recognize that a well location is unorthodox prior to its drilling and not wait a period of eight months after producing from the affected interval to seek the necessary regulatory exceptions. If, any future application by Doyle Hartman for an unorthodox location is not filed in a more timely fashion, all such subsequent applications may be subject to the Division's hearing process until further notice.

IT IS FURTHER ORDERED HOWEVER THAT:

(3) Doyle Hartman's request to simultaneously dedicate to this 320-acre non-standard gas spacing unit the following two wells is hereby denied:

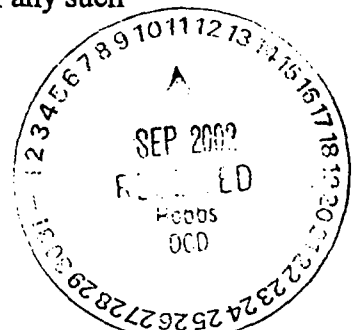
(A) H. M. Britt Well No. 2 (API No. 30-025-05990), located at a standard infill gas well location 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 7, which well is located within the same quarter-quarter section [NE/4 NW/4 (Unit C) of Section 7] as the above-described Britt Well No. 12; and

(B) the H. M. Britt Well No. 11 (API No. 30-025-05998), located at an unorthodox infill gas well location 1650 feet from the North and West lines (Unit G) of Section 7, which well is located within the same quarter-quarter section [SW/4 NE/4 (Unit G) of Section 7] as the above-described H. M. Britt Well No. 3.

(4) Doyle Hartman is authorized to simultaneously dedicate Eumont gas production from its H. M. Britt Wells No. 1, 3, 4, and 5 and Britt Wells No. 12 and 14.

(5) All provisions applicable to the subject 320-acre non-standard gas spacing unit in Division Order No. R-5448 and Division Administrative Order SD-99-9, not in conflict with this order, shall remain in full force and affect until further notice.

(6) Jurisdiction of this matter shall be further retained for the entry of any such



Administrative Order NSL-4773(SD)

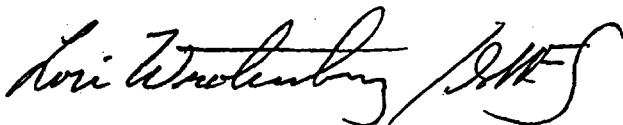
Doyle Hartman, Oil Operator

September 4, 2002

Page 4

subsequent orders, as the Division may deem necessary.

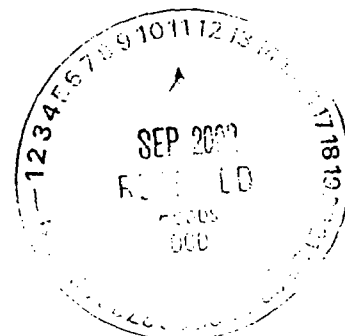
Sincerely,



Lori Wrotenbery
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Hobbs /
U. S. Bureau of Land Management - Carlsbad
File: NSP-11
SD-99-9



District I
PO Box 198C, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies
☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Doyle Hartman P.O. Box 10426 Midland, TX 79702		² OGRID Number 6473
		³ Reason for Filing Code RC
⁴ API Number 30 - 0 25-05938	⁵ Pool Name Eumont Gas	⁶ Pool Code 76480
⁷ Property Code	⁸ Property Name Britt A-6	⁹ Well Number 2

II. ¹⁰ Surface Location

UI or lot no. L	Section 6	Township 20S	Range 37E	Lot Idn	Feet from the 1980	North/South Line South	Feet from the 660	East/West line West	County Lea
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/12/01		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date	

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
020809	Sid Richardson 201 Main Street Ft. Worth, TX 76102	283128D	G	L-6-20S-37E

IV. Produced Water

²³ POD 1067150	²⁴ POD ULSTR Location and Description L-6-20S-37E
------------------------------	---

V. Well Completion Data

²⁵ Spud Date 04/10/36	²⁶ Ready Date 10/11/01	²⁷ TD 3895	²⁸ PBTD 3220	²⁹ Perforations 2307 - 2966	³⁰ DHC, DC, MC 4.95"
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set		³⁴ Sacks Cement	
Surface	13-3/8"	268		200	
Intermediate	7-5/8"	2285		900 + 310 = 1210	
Production	5-1/2"	3775		400 + 2726 = 3126	
Tubing String	2-3/8"	3146'			

VI. Well Test Data

³⁵ Date New Gas 09/20/01	³⁶ Gas Delivery Date 10/12/01	³⁷ Test Date 01/03/02	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure ---	⁴⁰ Csg. Pressure 150
⁴¹ Choke Size 24/128	⁴² Oil ---	⁴³ Water 7	⁴⁴ Gas 340	⁴⁵ AOF ---	⁴⁶ Test Method Meter Run

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Steve Hartman</i>		OIL CONSERVATION DIVISION	
Printed name: Steve Hartman		Approved by:	
Title: Engineer		Approval Date:	
Date: 01/04/02	Phone: (915) 684-4011		
⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature		Printed Name	Title Date

New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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, Tx 79701 (915-684-4011)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1980' FSL and 660' FWL (L)
Section 6, T-20-S, R-37-E, NMPM**

5. Lease Designation and Serial No.
LC-031621 (A)

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Britt "A-6" No. 2

9. API Well No.
30-025-05938

10. Field and Pool, or Exploratory Area
Eumont GAs

11. County or Parish, State
Lea Co., NM

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

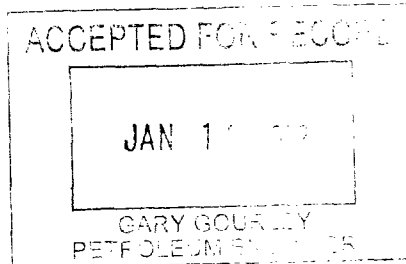
- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☒ Casing Repair and cement job
☐ Altering Casing
☒ Other Return well to
beneficial use

- ☐ 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 page 2 of 8, 3 of 8, 4 of 8, 5 of 8, 6 of 8, 7 of 8 and 8 of 8 attached hereto, and made a part hereof.



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

Signed Doyle Hartman

Title Engineer

Date 01/04/02

(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

Page 2 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Details of Completed Operations

Moved in backhoe, on 6-4-01. Dug 13'-deep hole around wellhead. Installed 5 1/2" O.D., 15.5 lb/ft tieback nipple back to surface, from top of 7 5/8" x 5 1/2" casinghead.

Installed new 2" risers back to surface, from 13 3/8" x 7 5/8" and 7 5/8" x 5 1/2" casingheads. Equipped risers with 2" 3000-psi ball valves.

Rigged up well service unit. Ran new 2 3/8" O.D. tubing string, 5 1/2" Model "C" RBP, and 5 1/2" Model "C" packer. Pressure tested 5 1/2" casing, from 0' to 1201', to 500 psi. Pressure dropped to 0 psi, in one minute. Located leak in 5 1/2" O.D. casing, between 879' and 944'.

Acidized leak, with 850 gal of 15% NEFE acid. Performed injectivity test, at a rate of 0.4 BPM, at 2900 psi. 2.25-min SIP = 0 psi.

Set Halliburton 5 1/2" EZ-Drill retainer at 848'. Cemented casing leak (879' to 944'), with a total of 956 sx of cement slurry, consisting of (1) 300 sx of API Class "C" cement, containing 0.5% Halad 322, (2) 336 sx of API Class "C" cement, containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, (3) 220 sx of Thixotropic cement containing 10% Cal Seal, and (4) 100 sx of API Class "C" Neat cement. Pulled 2 3/8" O.D. tubing.

Pressured 5 1/2" O.D. casing, from 0' to 848', to 1000 psi. Tied pump truck to 7 5/8" x 5 1/2" casing annulus. Cemented down 7 5/8" x 5 1/2" casing annulus, with 50 sx of API Class "C" cement containing 3% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, followed by 220 sx of Thixotropic cement containing 10% Cal Seal. Obtained cement returns back to surface, on outside of 13 3/8" O.D. casing.

Closed 7 5/8" O.D. casing valve. Tied pump truck to 13 3/8" O.D. casing. Cemented down 13 3/8" O.D. casing with 200 sx of API Class "C" cement containing 3% CaCl₂ followed by 110 sx of Thixotropic cement containing 10% Cal Seal. Observed cement returns back to surface, on outside of 13 3/8" O.D. casing. Continued cementing down 13 3/8" O.D. casing until 54" O.D. corrugated steel cellar can was full of cement.

Disconnected pump truck from 13 3/8" O.D. casing. WOC for 2.25 hrs. Tied pump truck to 7 5/8" O.D. casing. Attempted to pump cement down 7 5/8" O.D. casing. Pressure immediately climbed to 2500 psi.

Ran bottom-hole drilling assembly consisting of 4 3/4" bit and (8) 3 1/2" O.D. drill collars. Drilled 5 1/2" cementing retainer at 848', and cement below retainer. Fell out of hard cement, at 952'.

Page 3 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Moved well service unit to H.M. Britt No. 14 well, to replace corroded and worn tubing, and to install 228-213-86 pumping unit.

Moved well service unit back onto well, on 7-3-01. Pressure tested 5 1/2" O.D. casing, from 0' to 3390', to 2000 psi. Pressure held okay.

Hooked up reverse unit. Drilled 5 1/2" CIBP, at 3390'. After slips relaxed, pushed 5 1/2" CIBP to 3676' RKB. Pulled bottom-hole drilling assembly.

Rigged up Schlumberger. Logged well with DS-CNL-GR-CCL log and VDCBL-GR-CCL log. Found static fluid level at 1280'.

Ran 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP. Set 5 1/2" Model "C" RBP at 3429'. Set 5 1/2" Model "C" packer at 3397'. Loaded 5 1/2" O.D. casing, with 2% KCL water. Retested 5 1/2" O.D. casing, from 0' to 3397', to 2000 psi. Pressure dropped to 1500 psi, in 45 seconds.

Raised 5 1/2" Model "C" packer, to 3358'. Pressure tested 5 1/2" O.D. casing, from 3358' to 3429', to 3000 psi. Pressure held okay.

Lowered 5 1/2" Model "C" RBP to 3670'. Spotted 500 gal of 15% NEFE acid across and above Eunice-Monument perfs, from 3452' to 3670'. Acidized Eunice-Monument perfs, from 3452' to 3670', with an additional 1500 gal of 15% NEFE acid. Pulled 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Rigged up wireline truck. Set Baker Model K-1 retainer, at 3448'. Ran 2 3/8" O.D. tubing and cementing stinger.

Squeeze cemented Eunice-Monument perfs, from 3452' to 3675', to a final pressure of 4726 psi, with 454 bbls of cement slurry consisting of (1) 1531 sx of API Class "C" Neat cement, (2) 200 sx of API Class "C" cement, containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, and (3) 200 sx of API Class "C" cement containing 3% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Back washed 14 bbls of cement from tubing. Pulled 2 3/8" O.D. tubing.

FILED
RECEIVED
OCT 1 1901

Page 4 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Rigged up wireline truck. Perforated 5 1/2" O.D. casing, with (8) 0.38" x 19" squeeze holes, with one shot each at:

3275	3364
3279	3368
3283	3372
3338	
3342	

Ran 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP. Spotted 200 gal of 15% MCA acid across and above squeeze perfs. Acidized squeeze perfs with an additional 2200 gal of 15% MCA acid. Performed injectivity test into squeeze perfs, at 2.5 BPM, at 1500 psi.

Pulled 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Ran 2 7/8" O.D., 6.5 lb/ft, N-80 work string and 5 1/2" Model "C" packer. Set 5 1/2" Model "C" packer, at 3103'. Cemented squeeze perfs, from 3275' to 3372', to a final pressure of 2987 psi, with 506 bbls of cement slurry consisting of (1) 1725 sx of API Class "C" Neat cement, (2) 200 sx of API Class "C" cement containing 2% CaCl₂, 3 lbs/sx Gilsonite, and 0.25 lbs/sx Flocele, and (3) 200 sx of API Class "C" cement containing 3% CaCl₂, 3 lbs/sx Gilsonite, and 0.25 lbs/sx Flocele.

Raised 5 1/2" Model "C" packer. Isolated 5 1/2" O.D. casing leak, between 910' and 943'. Pressure tested 5 1/2" O.D. casing, from 0' to 910', to 3000 psi. Pressure held okay.

Pressure tested 5 1/2" O.D. casing, from 943' to 3172', to 3000 psi. Pressure held okay.

Pressure tested leak, from 910' to 943', to 2000 psi. Pressure dropped to 800 psi, in two minutes.

Acidized leak with 300 gal of 15% NEFE acid. Performed injectivity test into leak, at 3.0 BPM, at 1750 psi. ISIP = 800 psi. 5-min SIP = 800 psi.

Retested 5 1/2" O.D. casing, from 0' to 910', to 3000 psi. Pressure held okay. Pulled 2 7/8" O.D. work string and 5 1/2" Model "C" packer.

Squeeze cemented leak, from 910' to 943', to a final squeeze pressure of 3025 psi, by pumping down 5 1/2" O.D. casing, with 355 bbls of cement slurry, consisting of 775 sx of API Class "C" Neat cement, followed by 725 sx of API Class "C" cement containing 3% CaCl₂, 3 lbs/sx Gilsonite, and 0.5 lbs/sx Flocele.

Page 5 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Ran bottom-hole drilling assembly consisting of 4 3/4" bit and (8) 3 1/2" O.D. drill collars. Tagged top of cement, at 408'. Drilled 537' of cement, in 18.50 hrs (29.0'/hr). Fell out of cement at 940'. Pressure tested repaired casing, to 3000 psi. Pressure held okay.

Lowered bottom-hole drilling assembly. Drilled cement, from 3142' to 3448', in 8.616 hrs (35.5'/hr). Pressure tested squeeze perfs, from 3272' to 3375', to 2000 psi. Pressure held okay.

Rigged up wireline truck. Perforated Lower Queen interval, with (16) 0.38" x 19" holes, with one shot each at:

3185	3205	3223	3250
3193	3207	3226	
3197	3209	3230	
3199	3213	3240	
3203	3216	3247	

Ran 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP. Spotted 300 gal of acid across and above perfs, from 3185' to 3247'. Acidized Penrose perfs, from 3185' to 3247', with an additional 2640 gal (total of 2940 gal) of 15% MCA acid, at an average treating rate of 3.8 BPM, and average treating pressure of 2250 psi. ISIP = 735 psi. 5-min SIP = 0 psi.

Pulled 2 3/8" O.D. tubing and 5 1/2" Model "C" packer. Rigged up wireline truck. Perforated with an additional (16) 0.38" x 19" holes, with one shot each at:

2962	3104	3151	3232
2964	3116	3153	
3049	3120	3157	
3090	3140	3159	
3100	3145	3183	

Ran 2 3/8" O.D. tubing and 5 1/2" Model "C" packer. Raised 5 1/2" Model "C" RBP, to 3171'. Spotted 500 gal of 15% MCA acid across perfs, from 2962' to 3159'. Acidized perfs, from 2962' to 3159', with an additional 2360 gal (total of 2860 gal) of 15% MCA acid, and 17 ball sealers, at an average treating rate of 3.7 BPM. Max Pressure = 3000 psi (at ballout). ISIP = 1671 psi. 15-min SIP = 387 psi.

Pulled 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Ran and landed 2 3/8" O.D. tubing, at 3404'. Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4"

Page 6 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Axelson S-87 API Class "KD" rod string. Commenced cleaning up and testing well, at 1:00 p.m., CDT, 7-13-01, at 8.5 x 64 x 1 1/4.

Performed well test:

Date:	9-13-01
Producing Interval:	2962' to 3250'
Gas Rate:	TSTM
Water Rate:	71.4 BPD
CP	= 0.2 psi
Pump Time	= 99%

Note: Probable water source is water crossflow, below 5 1/2" CIBP, in un-squeezed Eumont (Queen) perforated interval, in adjacent and previously plugged and abandoned Britt "A-6" No. 4 well.

Moved in and rigged up well service unit, on 9-13-01. Pulled rods and tubing.

Ran 2 3/8" O.D. tubing and 5 1/2" Model "C" packer. Set 5 1/2" Model "C" packer, at 2812'. Pressure tested 2 3/8" O.D. tubing, to 4800 psi. Loaded 5 1/2" O.D. casing. Pressured 5 1/2" O.D. casing to 800 psi.

Squeeze cemented Eumont perfs, from 2962' to 3250', with 455 sx of API Class "C" Neat cement. Final displacement rate was 1.3 BPM, at 4033 psi. Stage squeezed to a final pressure of 4100 psi. Back washed cement from tubing.

Raised and reset 5 1/2" Model "C" packer, at 2555'. Pressured cement to 3000 psi. WOC over weekend.

Ran 2 3/8" O.D. tubing and bottom-hole drilling assembly consisting of 4 3/4" bit and (6) 3 1/2" O.D. drill collars. Drilled out cement, from 2809' to 3220' (411'), in 12.7 hrs (32.4/hr). Pressure tested squeeze, from 2962' to 3200', to 2100 psi. Pressure held okay.

Hooked up air units. Unloaded water from hole. Pulled 2 3/8" O.D. tubing and bottom-hole assembly.

Rigged up wireline truck. Perforated Upper Eumont, with (37) 0.38" x 19" holes, from 2307' to 2966'.

Page 7 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Ran 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, 5 1/2" Model "C" RBP. Acidized perfs, from 2307' to 2966', in 3 stages, with a total of 7900 gal of 15% MCA acid.

Interval (ft)	No. of <u>holes</u>	Acid Volume (gal)	No of <u>Balls</u>	Rate (BPM)	T _{p_{mx}} (psi)	ISIP (psi)
2917 to 2966	8	2300	13	2.9	3000	1844
2510 to 2750	19	3500	24	3.3	3640	1655
2307 to 2442	10	2100	14	3.0	3000	

Balled off all three stages.

Pulled 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Ran 2 3/8" O.D. tubing, to 3201'. Hooked up air units. Unloaded fluid from hole. Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" Axelson S-87 API Class "KD" rod string. Commenced pumping and cleaning up well, at 7:00 p.m., CDT, 9-20-01.

Observed the following well performance:

Date:	10-3-01
Test Period:	24 hrs
Gas Rate:	26 MCFPD
Water Rate:	0.6 BPD
Orifice Plate:	0.250"
CP:	11.2 psi
OP:	11.2 psi

Moved in and rigged up well service unit, on 10-3-01. Pulled rods and tubing. Rigged up wireline truck. Perforated Upper Eumont, from 2333' to 2848', with eleven (11) 0.44" x 23" holes:

2333	2674	2823
2500	2758	2844
2507	2774	2848
2664	2777	

Ran 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP. Set 5 1/2" Model "C" RBP, at 2880'. Spotted 800 gal of 15% MCA acid, across and above Upper Eumont perfs, from

Page 8 of 8
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

2303' to 2848'. Set 5 1/2" Model "C" packer at 2247'. Acidized perfs, from 2307' to 2848', with an additional 7200 gal (total of 8000 gal) of 15% MCA acid and 50 ball sealers, at 4.2 BPM. $T_{p_{mx}} = 3520$ psi (at ballout). ISIP = 1642 psi. 15-min SIP = 1437 psi.

Pulled 2 3/8" O.D. tubing, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Ran 2 3/8" O.D. tubing, to 3202'. Hooked up air units. Unloaded 110 bbls of load water from hole.

Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" Axelson S-87 API Class "KD" rod string. Commenced pumping and cleaning up well, at 9:00 p.m., CDT, 10-4-01.

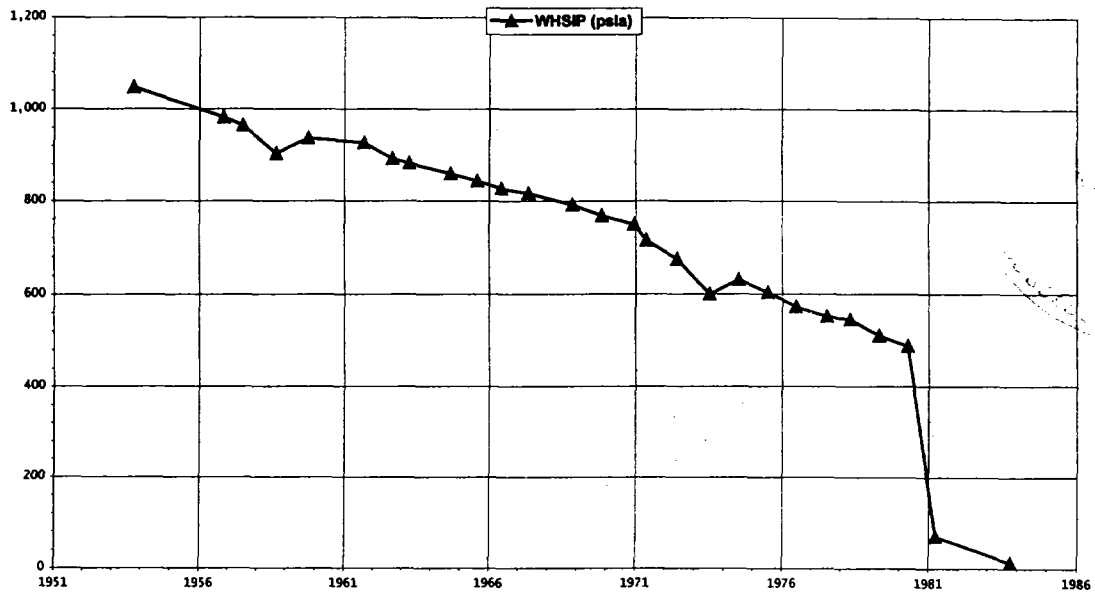
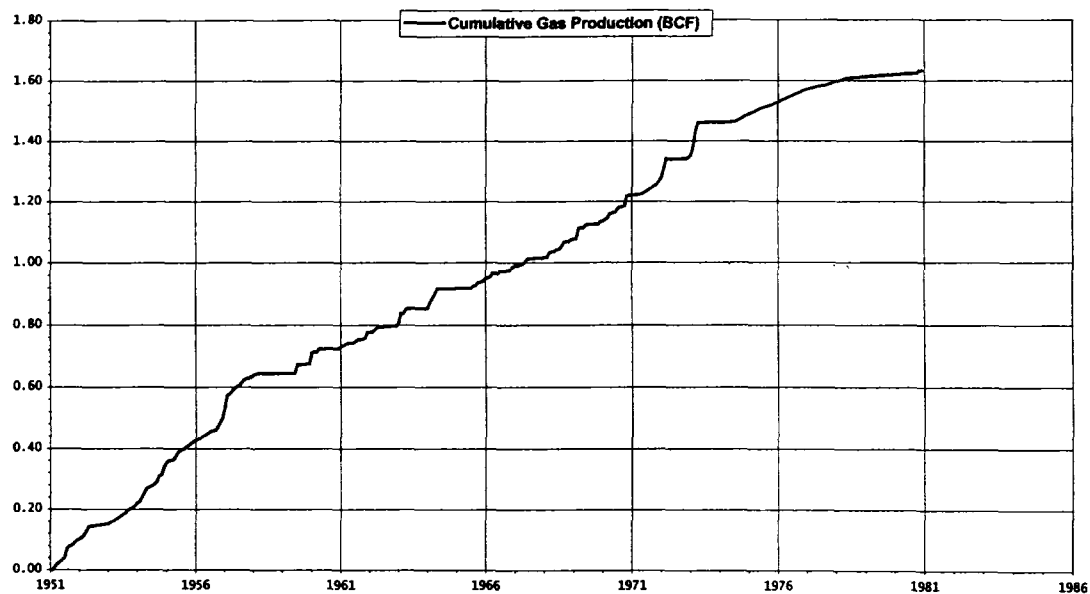
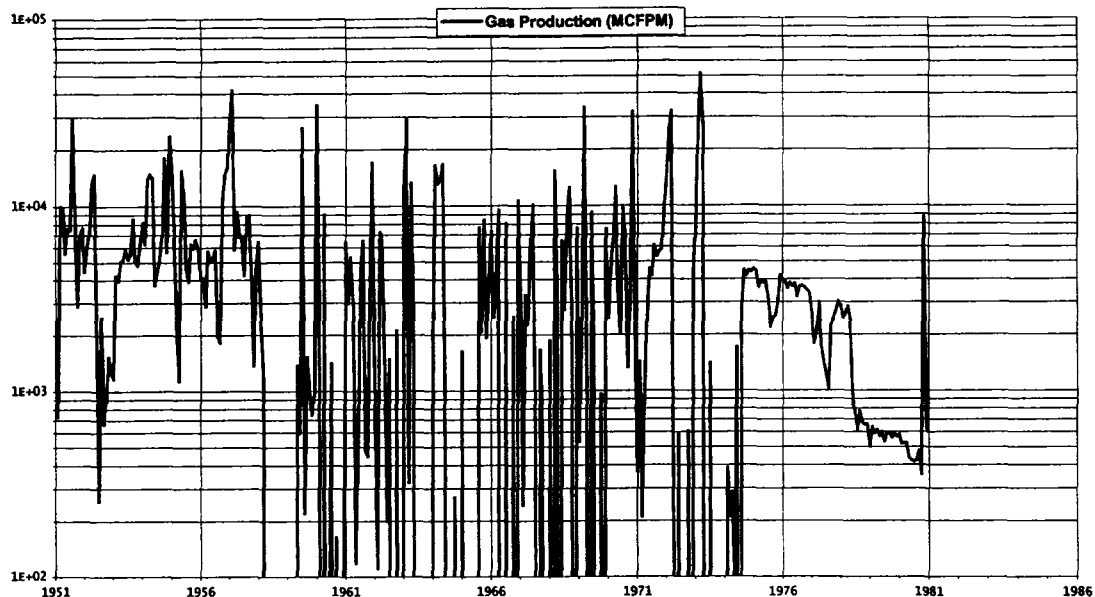
Performed well test:

Date:	10-8-01
Producing Interval:	2307' to 2966'
Test Period:	21.5 hrs
Gas Production:	89.6 MCF
Water Production:	3.5 bbls
Gas Rate:	100 MCFPD
Water Rate:	3.9 BPD
Orifice Plate:	0.375"
CP:	25.5 psig
OP:	25.5 psig

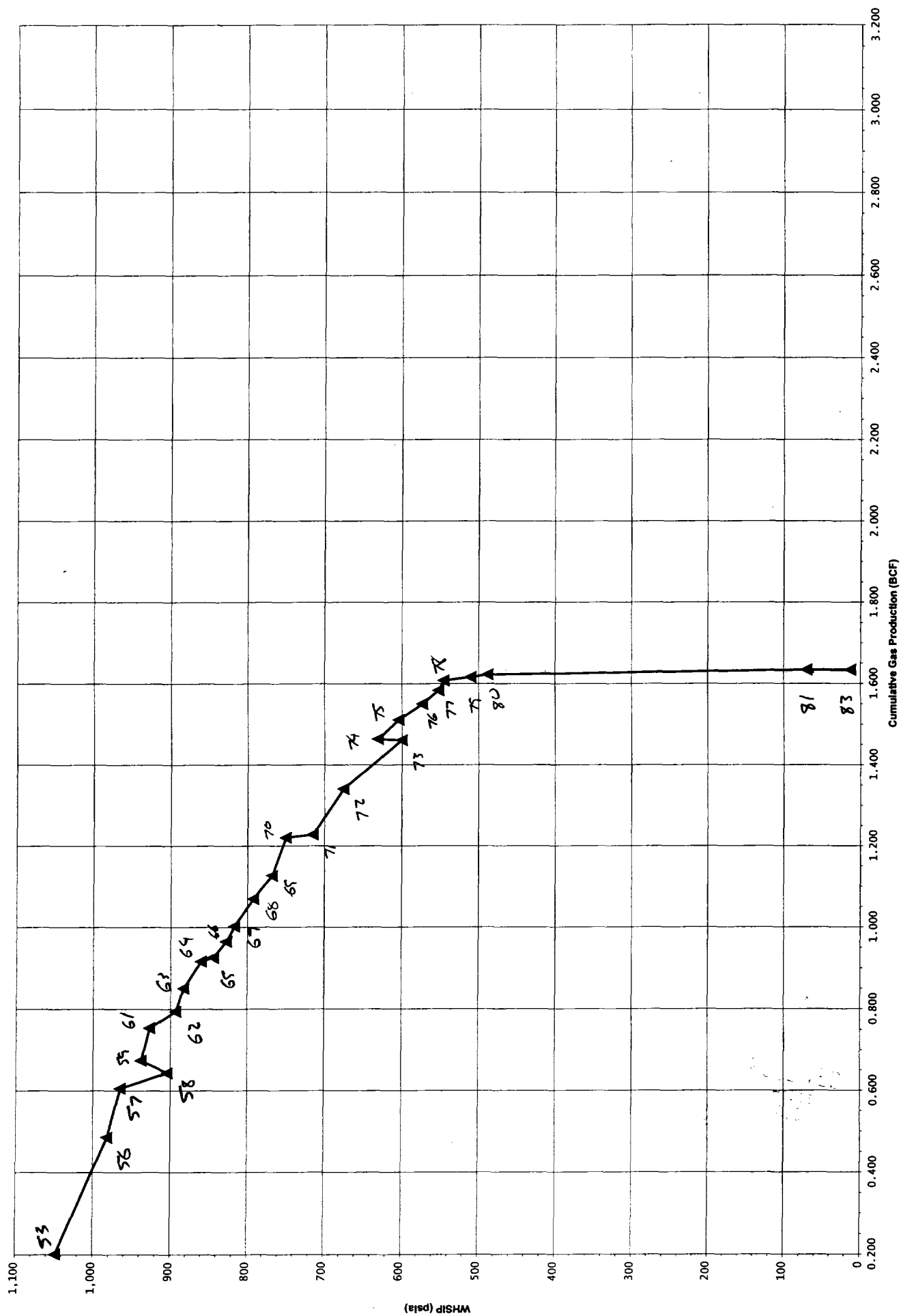
In compliance with the BLM's 7-24-00 notice, previously abandoned H.M. Britt No. 2 wellbore has now been returned to beneficial use, as a replacement, for the adjacent Britt "A-6" No. 4 Upper Eumont bradenhead well, that was abandoned by Conoco (predecessor operator), in 1980.

10-10-01
DOYLE HARTMAN
10-10-01
DOYLE HARTMAN

Britt A-6 #4
Upper-Eumont Braden-Head Completion
L-6-20S-37E
Conoco



Britt A-6 #4
Upper-Eurmont Braden-Head Completion
L-6-20S-37E
Conoco



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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 ☒ Gas ☐ Other
☐ Well ☒ Well

2. Name of Operator

Doyle Hartman

3. Address and Telephone No.

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

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

1980' FSL and 660' FWL (L)
Section 6, T-20-S, R-37-E, NMPM

5. Lease Designation and Serial No.

LC-031621 (A)

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Britt "A-6" No. 2

9. API Well No.

30-025-05938

10. Field and Pool, or Exploratory Area

Eumont Gas

11. County or Parish, State

Lea Co., NM

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

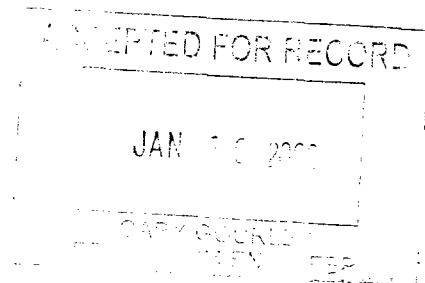
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Frac Job/Well Potential

- ☐ 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 page 2 of 2 attached hereto, and made a part hereof.



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

Signed Doyle Hartman Title Engineer Date 01/04/02

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Page 2 of 2
BLM Form 3160-5 dated 01-04-02
Doyle Hartman
Britt A-6 No. 2
L-6-20S-37E
API No. 30-025-05938

Details of Completed Operations

Moved in and rigged up well service unit, on 10-8-01. Pulled rods and tubing. Temporarily plugged wellbore back to 3036', with 25 sx of frac sand. Landed bottom of 2 3/8" O.D. tubing, at 2280' RKB. Installed carbide blast joint and heavy-duty frac valves.

Rigged up Halliburton. Performed CO₂ foam frac down 5 1/2" x 2 3/8" casing-tubing annulus, with 175,707 gal of gelled water and CO₂ plus a combined total of 400,000 lbs of 20/40, 10/20, and 8/16 frac sand. Flowed well overnight to blowdown tank.

Rigged up air units. Cleaned out frac sand, from 2974' to 3220'. Landed bottom of 2 3/8" O.D. tubing at 3146' RKB (97 jts @ 32.16'/jt + 1.1' SN + 18' MA - 3' AGL + 10' KBC = 3145.62'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" API Class "KD" rod string. Commenced pumping and cleaning up completion interval, from 2307' to 2966' (48 holes), at 5:00 p.m., CDT, 10-11-01.

Performed after-frac potential test:

Date:		1-3-02
Producing Interval:		2307' to 2966' (48 holes)
Gas Rate	=	340 MCFPD
Water Rate	=	7.02 BWPD
Choke	=	24/128
CP	=	150 psi
LP	=	16.7 psi
CO ₂	=	1%

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

N.M. Oil Cons. Division

FORM APPROVED

04-0137

Expires: February 28, 1995

1625 N. French Dr. Hobbs, NM 88240

Hobbs, NM 88240

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____							
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input checked="" type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____					
2. NAME OF OPERATOR Doyle Hartman						7. UNIT AGREEMENT NAME						
3. ADDRESS AND TELEPHONE NO. P.O. Box 10426, Midland, TX 79702						8. FARM OR LEASE NAME, WELL NO. Britt A-6 #2						
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FSL & 660' FWL (Unit L) Sec. 6, T-20-S, R-37-E At top prod. interval reported below At total depth						9. API WELL NO. 30-025-05938						
14. PERMIT NO. 3160-5						DATE ISSUED 06/04/01	12. COUNTY OR PARISH Lea	13. STATE NM				
15. DATE SPUDDED 04/10/36	16. DATE T.D. REACHED 06/21/36	17. DATE COMPL. (Ready to prod.) 10/11/01		18. ELEVATIONS (DF, RKB, RT, GE, ETC.)* 3573' DF		19. ELEV. CASINGHEAD						
20. TOTAL DEPTH, MD & TVD 3895'		21. PLUG, BACK T.D., MD & TVD 3220'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY →	ROTARY TOOLS 0' - 3895'	CABLE TOOLS				
24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* 2307' - 2966' (Yates-Seven Rivers)							25. WAS DIRECTIONAL SURVEY MADE No					
26. TYPE ELECTRIC AND OTHER LOGS RUN GRN (7/22/49), DS-CNL-GR-CCL, VDCBL-GR-CCL (7/4/01)							27. WAS WELL CORED No					
28. CASING RECORD (Report all strings set in well)												
CASING SIZE/GRADE		WEIGHT, LB/FT.		DEPTH SET (MD)		HOLE SIZE		TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED			
13-3/8"				268				200 sx	Circ			
7-5/8"				2285				900 sx + 310 sx = 1210 sx	Circ			
5-1/2"				3775				400 sx + 2726 sx = 3126 sx				
29. LINER RECORD									30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
									2-3/8"	3246'		
31. PERFORATION RECORD (Interval, size and number) 2307' - 2966' (37 - 0.38" holes) 2333' - 2848' (11 - 0.44" holes)									32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
ACCEPTED FOR RECORD FEB 22 2002 GARY G. URLEY PETROLEUM ENGINEER									DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
									2307' - 2966'		A/7900 MCA	
									2307' - 2848'		A/8000 MCA	
									2307' - 2966'		SWF/175,707 + 400,000 (10/09/01)	
33. * PRODUCTION												
DATE FIRST PRODUCTION 09/20/01		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - Flowing @ 8.5 x 64 x 1-1/4						WELL STATUS (Producing or shut-in) Producing				
DATE OF TEST 01/03/02		HOURS TESTED 24		CHOKE SIZE 24/128		PROD'N FOR TEST PERIOD →		OIL---BBL. ---	GAS---MCF. 340	WATER---BBL. 7	GAS-OIL RATIO ---	
FLOW. TUBING PRESS. ---		CASING PRESSURE 150		CALCULATED 24-HOUR RATE →		OIL---BBL. ---		GAS---MCF. 340	WATER---BBL. 7	OIL GRAVITY-API (CORR.) ---		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold									TEST WITNESSED BY Don Mashburn			
35. LIST OF ATTACHMENTS DS-CNL-GR-CCL, VDCBL-GR-CCL												
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records												
SIGNED <u>[Signature]</u>				TITLE Engineer				DATE 01/04/02				

*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

RECEIVED
2002 FEB 21 AM 8:30
ENCLAVE
CONVET OFFICE

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-05938	Pool Code 76480	Pool Name Eumont Gas
Property Code	Property Name Britt A-6	Well Number 2
GRID No. 6473	Operator Name Doyle Hartman	Elevation 3573' DF

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
L	6	20S	37E		1980'	South	660'	West	Lea

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
Dedicated Acres 80	Joint or Infill Y	Consolidation Code	Order No.	NSP-1631 Dated July 23, 1991					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Steve Hartman Printed Name Engineer Title 01/04/2002 Date JAN 2002 RECEIVED Hobbs GCC
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

RECEIVED
2002 FEB 21 AM 8:30
BUREAU OF LAND MANAGEMENT
FISHHILL OFFICE

(GENERAL RULES AND REGULATIONS FOR THE PRORATED GAS POOLS OF NEW MEXICO - Cont'd.)

(b) Units that involve partial quarter sections regardless of size (up to 640 acres);

The Director may administratively grant an exception to the requirements of Rule 2(A) above to establish a non-standard gas spacing unit containing legal subdivisions smaller than a quarter section [quarter-quarter sections(s) or lots] without a hearing provided that:

(i) the non-standard spacing unit consists of quarter-quarter sections or lots that share a common bordering side; and

(ii) the applicant presents proof of consent of or notice to all offset operators of any unit or units adjacent to the proposed non-standard spacing unit and, for any adjacent unit or units where there is no operator, all lessees or unleased mineral interests owners, in the form and manner prescribed by Rule 4(D).

(2) Applications for non-standard gas spacing units shall include:

(a) a detailed explanation of the necessity for requesting the proposed non-standard gas spacing unit;

(b) a land plat that identifies the non-standard gas spacing unit being sought and identifies all existing Eumont gas wells contained within the acreage;

(c) information concerning any old well within the proposed unit that once had Eumont production, either oil or gas (well name and number, operator, last acreage dedication, plugging date and cumulative oil and gas production, and any applicable Division order granting an exception to any Eumont rule);

(d) a land plat that clearly shows all existing Eumont oil and gas spacing units that directly offset the proposed non-standard unit and, if available, reference to all orders approving such non-standard gas spacing units;

(e) for a non-standard Eumont gas spacing unit that contains partial quarter sections, a land plat must be submitted that clearly depicts the acreage and mineral interests that will be excluded from the unit within the quarter section and that are not committed to any other Eumont gas or oil spacing unit; the plat shall identify the owners of such mineral interests by name, address (if known) and percentage;

(f) geological and technical information required by rule 4(B), if applicable; and

(g) proof of compliance with applicable consent or notice provisions of Rule 4.

(D) With reference to any exception that may be granted administratively without hearing as provided by any provision of this Rule 4:

(1) any required proof of consent shall be evidenced by written waivers setting forth the substance of the exception sought and expressly consenting thereto, and signed by the person whose consent is required by the applicable provision of this Rule;

(2) any required notice shall be given in the manner provided in Rule 1207 (B), except that in lieu of stating the time and place of hearing, such notice shall state that the exception sought may be granted without hearing unless a protest is filed with the Santa Fe office of the Division within twenty (20) days after the filing of the application and proof of notice with the Division. An affidavit shall be filed with the application setting forth the information required by Rule 1207 (C) with respect to any persons required to be notified by the applicable provisions of this Rule from whom written waivers are not furnished;

(3) if an application is supported by written waivers as provided in Rule 4(D) (1) from all persons whose consent is required and an affidavit attesting that the persons whose waivers are attached are all of the persons whose consent is required, the Director may grant the application without further notice or hearing; and

(4) if an application is supported by proof of notice as provided in Rule 4(D) (2), the Director may grant the application without hearing if no protest is filed with the Division within twenty (20) days after the date of filing of the application and proof of notice.

(E) The Division Director may set for hearing any application that was filed for administrative approval. If a protest is filed as to any such application as provided in Rule 4(D), such application shall be denied or set for hearing, in the discretion of the Director.

RULE 5. WELL TESTING:

(A) Gas-liquid ratio tests: The operator of each newly completed well shall conduct a gas-liquid ratio test on the well upon recovery of all load oil from the well, provided however, that in no event shall the test be commenced later than 30 days from the date of first production.

Semi-annual gas-liquid ratio tests shall be conducted on all wells during each year in accordance with a test schedule prepared by the Hobbs district office of the Division. The initial gas-liquid ratio test shall suffice as the first semi-annual test. Any well that is shut-in shall be exempt from the gas-liquid ratio test requirement so long as it remains shut-in. Gas-liquid ratio tests shall be conducted for 24 hours being the final 24 hours of a 72-period during which the well shall be produced at a constant normal rate of production. Results of each test shall be filed on Division Form C-116 on or before the tenth day of the following month. At least 72 hours prior to commencement of any such gas-liquid ratio tests, each operator shall file with the Hobbs district office of the Division a test schedule for its wells specifying the time each of its wells is to be tested. Copies of the test schedule shall also be furnished to all offset operators. The supervisor of the Hobbs district office may grant an exception to the above well-test requirement where it is demonstrated that the well produces no liquids. Special gas-liquid ratio tests shall also be conducted at the request of the Division and may also be conducted at the option of the operator. Such special gas-liquid ratio tests shall be conducted in accordance with the procedures outlined hereinabove, including including notification to the Division and offset operators.

(B) An initial shut-in pressure test shall be conducted on each gas well and shall be reported to the Division on Form C-125.

RULE 6. MISCELLANEOUS:

(A) Oil wells in the Eumont Gas Pool shall receive oil and casing-head gas allowables as provided in Division Rules 503, 505, and 506.

(B) All existing exceptions, whether granted administratively or through hearing, in effect on the issuance date of this order shall be "grandfathered" and shall remain in full force and effect until further notice.

SPECIAL RULES AND REGULATIONS FOR THE INDIAN BASIN-MORROW GAS POOL

The Indian Basin-Morrow Gas Pool, Eddy County, New Mexico was created March 1, 1963 and gas proration in this pool became effective July 1, 1965.

A. DEFINITIONS

THE VERTICAL LIMITS of the Indian Basin-Morrow Gas Pool shall be the Morrow formation.

(As Added by Order No. R-8170-O, Effective November 27, 1995)
CONFINEMENT of the special rules governing the Indian Basin Morrow Gas Pool shall apply only to such lands as shall from time to time lie within the horizontal limits of said pool.

B. WELL LOCATION AND ACREAGE REQUIREMENTS

RULE 2(a). A standard GPU in the Indian Basin-Morrow Gas Pool shall be 640 acres.

RULE 2(b). Each well completed or recompleted in the Indian Basin-Morrow Gas Pool shall be located no closer than 1650 feet to the outer boundary of the proration unit nor closer than 330 feet to any governmental quarter-quarter section or subdivision inner boundary.

D. ALLOCATION AND GRANTING OF ALLOWABLES

RULE 5. Acreage is the only proration factor in the Indian Basin Morrow Gas Pool.

SPECIAL RULES AND REGULATIONS FOR THE INDIAN BASIN-UPPER PENNSYLVANIAN GAS POOL

The Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico was created March 1, 1963 and gas proration in this pool became effective July 1, 1965.

A. DEFINITIONS

THE VERTICAL LIMITS of the Indian Basin-Upper Pennsylvanian Gas Pool shall be the Upper Pennsylvanian formation.

B. WELL LOCATION AND ACREAGE REQUIREMENTS

RULE 2(A). A standard GPU in the Indian Basin-Upper Pennsylvanian Gas Pool shall be 640 acres.

RULE 2(B). Each well completed or recompleted in the Indian Basin-Upper Pennsylvanian Gas Pool shall be located no closer than 1650 feet to the outer boundary of the proration unit nor closer than 330 feet to any governmental quarter-quarter section or subdivision inner boundary.

D. ALLOCATION AND GRANTING OF ALLOWABLES

RULE 5. Acreage is the only proration factor in the Indian Basin-Upper Pennsylvanian Gas Pool.

DOYLE HARTMAN

Oil Operator
500 NORTH MAIN
P.O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011
(915) 682-7616 FAX

February 13, 2003

Via FedEx

Bill Richardson, Governor
Office of the Governor
New Mexico State Capitol Building
Suite 400
Santa Fe, NM 87501

Via FedEx

Representative Max Coll
Chairman - House Appropriation Committee
New Mexico State Capitol Building
Capital Building, Room 304
Santa Fe, NM 87503

Via FedEx

Representative Donald L. Whitaker
Chairman - Taxation & Revenue Comm
New Mexico State Capitol Building
Capital Building, Room 100
Santa Fe, NM 87501

Via FedEx

ABC Rental Tool Co., Inc.
2100 Ave. O
Eunice, NM 88231
Attn: Don L. Whitaker, CEO
Mark Whitaker, President

Re: **H.M. Britt Nos. 2 and 12 Eumont Wells**
NE/4NW/4 (Unit C)
Section 7, T-20-S, R-37-E
Lea County, New Mexico
[Federal Lease No.: LC-031621A]

Gentlemen:

Reference is made to the Doyle Hartman-operated H.M. Britt Nos. 2 and 12 Eumont wells situated in the NE/4NW/4 Section 7, T-20-S, R-37-E (C-7-20S-37E), Lea County, New Mexico.

In 2001, we invested the very substantial sum of \$960,010.36 repairing and returning our Britt Nos. 2 and 12 wells to beneficial use, in order to recover modest volumes of additional remaining gas reserves, which wells had previously been grossly mismanaged by the two prior operators, dating as far back as 1936.

As can be ascertained from a **careful** review of our herein enclosed letter, of February 12, 2003, to the NMOCD, after successfully repairing and returning the long-misoperated H.M. Britt Nos. 2 and 12 Eumont wells to an active producing status, the NMOCD is now asking that we shut-in our H.M. Britt No. 2 well, ~~because~~ because we have two Eumont wells located on the same 40-acre tract. ✓ This request is being made notwithstanding the fact that our H.M. Britt Nos. 2 and 12 Eumont wells produce from vertically ~~separate~~ and **isolated portions of the** lengthy Eumont Pool vertical interval,

Bill Richardson, Governor, et.al.

February 13, 2003

Page 2

and **both** wells are needed to **fully** recover all remaining gas reserves.

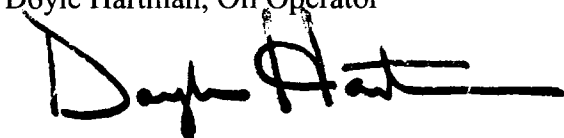
In this regard, we believe that it is imperative that the State of New Mexico realize that knowledgeable experienced self-financed independent operators cannot continue to invest substantial sums of money, in New Mexico, in order to achieve a **modest** return, if **New Mexico's Oil and Gas Commission, without a logical and technically sound reason, is going to attempt to prevent operators** from producing and financially benefitting from successfully reworked wells. One of the mandates of the NMOCD is to prevent **waste**, not to prevent already-developed reserves from being produced.

If New Mexico wishes to encourage operators to continue to invest in New Mexico, **it is without doubt taking the wrong approach.** As reserves continue to become more difficult to develop, operators do not need to be wasting valuable time and financial resources fighting New Mexico's Oil and Gas Commission, in order to hold onto **already-developed** reserves.

Just because New Mexico is **presently** in an admirable **budget** position, relative to many other states, it would appear that New Mexico still needs to make every effort to ensure that **adequate** future revenues will be forthcoming.

Very truly yours,

Doyle Hartman, Oil Operator

A handwritten signature in black ink, appearing to read "Doyle Hartman", with a long horizontal stroke extending to the right.

Doyle Hartman
Owner

enclosure

cc: **Via FedEx**
J.E. Gallegos
Gallegos Law Firm
460 St. Michaels Drive, Building 300
Santa Fe, NM 87505

James A. Davidson
201 W. Wall, Suite 600
Midland, TX 79701

Bill Richardson, Governor, et.al.
February 13, 2003
Page 3

Kent Walz, Chief Editor
The Albuquerque Journal
7777 Jefferson Street, N.E.
Albuquerque, NM 87109

Rob Dean, Managing Editor
The New Mexican
202 East Marcy Street
Santa Fe, NM 87501

DOYLE HARTMAN

Oil Operator
500 NORTH MAIN
P.O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011
(915) 682-7616 FAX

February 12, 2003

Via FedEx

New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, NM 87505
Attn: Lori Wrotenbery, Director, Oil Conservation Division
Michael E. Stogner, Chief Hearing Officer

Via FedEx

Chris Williams, NMOCD District 1 Supervisor
New Mexico Oil Conservation Division
1625 French Drive
Hobbs, New Mexico 88240

**Re: H.M. Britt Nos. 2 and 12 Eumont Wells
NE/4NW/4 (Unit C)
Section 7, T-20-S, R-37-E
Lea County, New Mexico
[Federal Lease No.: LC-031621A]**

Ladies and Gentlemen:

Reference is made to the NMOCD's letter, of February 5, 2003, that was received on February 10, 2003 (copy enclosed), regarding the fact that we have two Eumont producers (H.M. Britt Nos. 2 and 12 wells) situated within the same quarter-quarter section consisting of the NE/4NW/4 Section 7, T-20-S, R-37-E.

Reference is also made to our simultaneous dedication application, of August 14, 2002, corresponding to the multi-well 320-acre H.M. Britt Lease Eumont proration unit, consisting of the W/2E/2 and E/2W/2 Section 7, T-20-S, R-37-E, which application was necessitated by our return to beneficial use, in 2001, of four **long-time-abandoned** H.M. Britt Lease wellbores.

In regard to the H.M. Britt Nos. 2 and 12 Eumont wells, and the NMOCD's stated concerns about two Eumont producers being located within C-7-20S-37E, **please find herein enclosed (1) a chronological tabulation of events surrounding the repair, recompletion, and return to production, of the H.M. Britt Nos. 2 and 12 wells, and (2) supporting documents corresponding to the herein enclosed chronological tabulation.**

As can be ascertained from a careful review of the herein-enclosed chronology and corresponding supporting documents, as well as from other key enclosures, the H.M. Britt No. 2 wellbore, as of 2001, had been an abandoned wellbore for a period of 47 years, with last production occurring in October, 1954 (production graph enclosed).

Meanwhile, by 2001, the H.M. Britt No. 12 well, that was recompleted to the Lower-Eumont, in early 1977, was no longer a commercially viable producer, due to its production of highly corrosive and abrasive water, which water production resulted in costly and unprofitable well operations (i.e., continual rod parts and tubing leaks). The root cause of the costly water production was an inadequate and defective 26-year-old cement job, that did not effectively isolate gas-productive Eumont strata from underlying water-productive Eunice-Monument strata, as required by NMOCD regulations (NMOCD Rule 107 enclosed).

Consequently, on May 3, 2001, a 3160-5 Notice of Intent was filed, with the BLM, that proposed repairing the long-time abandoned H.M. Britt No. 2 well, and recompleting the well as a replacement for the non-commercial and mechanically-defective H.M. Britt No. 12 Lower-Eumont completion.

The next day, on May 4, 2001, a 3160-5 Notice of Intent was filed, with the BLM, corresponding to the H.M. Britt No. 12 well. The H.M. Britt No. 12 Sundry Notice proposed that the H.M. Britt No. 12 well be cleaned out and logged, so that a successful and mechanically-sound well abandonment could be achieved, and further upward migration of formation water would not occur, on the outside of the 5 1/2" O.D. casing string, after abandonment of the H.M. Britt No. 12 well.

On June 23, 2001, as documented by the herein-enclosed 3160-5 Sundry Notice (dated September 25, 2001), corresponding to the H.M. Britt No. 12 well, a 795' vertical interval, from 2521' to 3317' (76 holes), was squeezed, and the inclusive permeable strata isolated, utilizing 2500 sx of cement, at a final squeeze pressure of 4000 psi.

Also, as documented by our herein-enclosed 3160-5 Sundry Notice, of September 25, 2001, corresponding to the H.M. Britt No. 2 well, the Britt No. 2 well was returned to beneficial use, on June 27, 2001, as a Lower-Eumont interval producer, as a replacement for the adjacent and defective H.M. Britt No. 12 Eumont wellbore, that was squeezed and abandoned on June 23, 2001.

On October 3, 2001, after receipt of our 3160-5 Sundry Notice (of September 25, 2001), corresponding to the abandonment, on June 23, 2001, of the H.M. Britt No. 12 Lower-Eumont well, the BLM issued a ~~Letter to Operator~~ requesting that we furnish, within 30 days, an estimated time frame for also returning the abandoned H.M. Britt No. 12 to production. In light of (1) the BLM's eagerness to have the abandoned H.M. Britt No. 12 wellbore returned to an active producing status,

and (2) recognizing that the Upper-Eumont interval, in C-7-20S-37E, was potentially gas productive (but not a primary completion target), the H.M. Britt No. 12 was recompleted, on November 9, 2001, at an Upper-Eumont gas producer, between 2282' and 2303', which Upper-Eumont recompletion interval is vertically separate and isolated from the underlying H.M. Britt No. 2 Lower-Eumont (Queen) producing interval, between 3017' and 3277'.

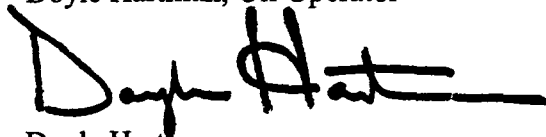
Although our recompletion, in November, 2001, of the H.M. Britt No. 12 well, as an Upper-Eumont producer, has subsequently resulted in two Eumont producers being situated within C-7-20S-37E, the H.M. Britt No. 2 (recompleted June 27, 2001), and the H.M. Britt No. 12 (recompleted November 9, 2001) clearly produce from separate portions of the lengthy vertical limits of the Eumont Pool, with each well demonstrating different production characteristics and reservoir pressures, as is evidenced by (1) the herein enclosed Britt Nos. 2 and 12 two-well completion interval schematic, and (2) the herein enclosed Britt Nos. 2 and 12 two-well production/pressure plot.

Therefore, in recognition of the foregoing, it is evident that both the H.M. Britt No. 2 Lower-Eumont well and the H.M. Britt No. 12 Upper-Eumont well, because of their vertically separate producing intervals, are each mandated (1) fully recover all remaining Eumont gas reserves underlying C-7-20S-37E, and (2) protect correlative rights; i.e., the premature abandonment of either well would lead to the loss (waste) of presently-recoverable gas reserves and future revenues, that were developed, in 2001, at a substantial investment cost of \$960,010.36 (\$514,132.73 + \$445,877.63 = \$960,010.36).

Moreover, although it was not our initial plan, in May, 2001, to recomplete both the H.M. Britt Nos. 2 and 12 wells, as Eumont producers, because of the two vertically-separate completions that have resulted, due to the requirements set forth by the BLM, more total reserves are now potentially recoverable, from C-7-20S-37E, than would have been recoverable from a single Eumont wellbore, since the mechanical condition (cement and pipe), of both the H.M. Britt No. 2 well or the H.M. Britt No. 12 well, ~~is not adequate to permit an extended single well completion interval that covers the lengthy vertical section now collectively produced in the H.M. Britt Nos. 2 and 12 wells.~~

Very truly yours,

Doyle Hartman, Oil Operator



Doyle Hartman
Owner

New Mexico Oil Conservation Division
February 12, 2003
Page 4

cc: **Via FedEx**
J.E. Gallegos
Gallegos Law Firm
460 St. Michaels Drive, Building 300
Santa Fe, NM 87505

James A. Davidson
201 W. Wall, Suite 600
Midland, TX 79701

DIVIDER PAGE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

2/5/2003

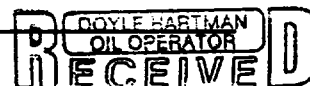
Steve Hartman
Doyle Hartman Oil Operator
PO Box 10426
Midland, Texas 79702

Dear Mr. Hartman:

An inspection by the New Mexico Oil Conservation Division (NMOCD), Hobbs District has found that the H.M. Britt Well #2 (30-025-05990) and H.M. Britt #11 (30-025-05998) are producing. This is contrary to NMOCD Administrative Order NSL 4773(SD) Page 3 paragraph 3A and 3B. ~~The request to simultaneously~~
~~decommission these wells to the 320 acre non-standard gas spacing unit was denied. The wells must be immediately~~
~~shut in pending an application for hearing before an NMOCD examiner and a subsequent hearing order issued.~~

Sincerely,

Chris Williams
NMOCD District1 Supervisor



FEB 10 2003

DIVIDER PAGE

Acreage Ownership Plat

T-20-S, R-36-E and R-37-E
Lea County, New Mexico

H. M. Britt #12

Upper-Eumont
330' FNL & 2281' FVL (C)
Sec. 7, T-20-S, R-37-E
(NMOCD Order No. R-5448, 6/8/77)

H. M. Britt #2

Lower-Eumont Replacement Well
660' FNL & 1980' FVL (C)
Sec. 7, T-20-S, R-37-E

H. M. Britt #1

1980' FNL & 1980' FVL (F)
Sec. 7, T-20-S, R-37-E
(Admin. Order SD-99-9, 8/23/99)

H. M. Britt #5

1980' FSL & 1980' FVL (K)
Sec. 7, T-20-S, R-37-E
(Admin. Order NSL-4773 (SD), 9/4/02)

H. M. Britt Eumont P.U.

E2 W12, W12 E2
Sec. 7, T-20-S, R-37-E
(320 acres, Order No. R-5448, Dated 6/8/1977)

H. M. Britt #4

660' FNL & 1980' FVL (B)
Sec. 7, T-20-S, R-37-E
(Admin. Order NSL-4773 (SD), 9/4/02)

H. M. Britt #11

1650' FNL & 1650' FVL (G)
Sec. 7, T-20-S, R-37-E

H. M. Britt #3

2310' FNL & 1650' FVL (G)
Sec. 7, T-20-S, R-37-E
(NMOCD Order No. R-5448, 6/8/77)

H. M. Britt #14

1400' FSL & 2310' FVL (J)
Sec. 7, T-20-S, R-37-E
(Admin. Order NSL-4773 (SD), 9/4/02)

EUNICE MONUMENT UNIT
DET (0000)

DIVIDER PAGE

Chronological Tabulation of Key Events Regarding the Repair and Recompletion of H.M. Britt Nos. 2 and 12 Wells

C-7-20S-37E

[Federal Lease No.: LC-031621A]

- 7-1-96 Pertaining to the H.M. Britt Nos. 2 and 12 wells, filed C-104 corresponding to Change of Operator, from Meridian to Doyle Hartman.
- 9-24-96 BLM issued Conditions of Approval regarding Temporary Abandonment of Wells on Federal Lands.
- 7-25-00 Received BLM certified notice, dated July 24, 2000, regarding six long-time abandoned H.M. Britt Lease wells (7-20S-37E).
- 11-27-00 Due to rig shortage, filed 3160-5 requesting a six-month start-date extension, for commencing required well work, as to abandoned H.M. Britt Lease wells listed in BLM's 7-24-00 certified notice.
- 5-3-01 Pertaining to the H.M. Britt No. 2, filed 3160-5 Notice of Intent corresponding to the repair of the H.M. Britt No. 2 wellbore, and recompletion of well "...as Eumont producer, as **replacement** for **adjacent** H.M. Britt No. 12 Eumont well (C-7-20S-37E) [emphasis added]..."
- 5-4-01 Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Notice of Intent corresponding to the cleanout and logging of the H.M. Britt No. 12 well, which well work was "...necessary for the proper abandonment of the well, in order to ensure against future upward migration [sic] of formation water, on outside of 5 ½" O.D. casing string...", and the watering out of gas-productive Eumont strata, in C-7-20S-37E.
- 9-25-01 Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Subsequent Report of completed well work, that was performed, on 6-23-01, to:
- (1) temporarily abandon H.M. Britt No. 12 well,
(2) squeeze off existing producing interval, and
(3) repair defective cement.
- 9-25-01 Pertaining to the H.M. Britt No. 2 well, filed 3160-5 Subsequent Report of completed well work, that was performed to:
- (1) repair casing and cement,
(2) return well to beneficial use (on 6-27-01), "**...as replacement Eumont producer**, for adjacent Britt No. 12 Eumont well (emphasis added)..."

Chronological Tabulation (Continued)

Page 2

- 9-25-01 Pertaining to the H.M. Britt No. 2 well, filed 3160-4 Recompletion Report corresponding to the recompletion of H.M. Britt No. 2 well, **between 3017' and 3277'**, "... **as replacement for adjacent Britt No. 12 Eumont well** (emphasis added)..."
- 10-4-01 Pertaining to the H.M. Britt No. 12 well, received BLM "Note to Operator", dated 10-3-01, requesting that operator, **within 30 days**, submit the **proposed time frame** for a recompletion attempt regarding H.M. Britt No. 12 well, which wellbore was **previously** squeezed off and abandoned, as to the **Lower-Eumont interval**, on **6-23-01**.
- 12-20-01 Pertaining to the H.M. Britt No. 2 well, filed C-104 corresponding to the recompletion of the H.M. Britt No. 2 well, **between 3017' and 3277'** as "...**replacement for adjacent Britt No. 12 Eumont well** (emphasis added)..."
- 1-8-02 Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Subsequent Report regarding the **recompletion** of the H.M. Britt No. 12 well, and return of wellbore "...**to beneficial use, as Upper Eumont gas producer, from 2293' to 2983' (53 holes)**(emphasis added)..."
- 1-8-02 Pertaining to the H.M. Britt No. 12 well, filed C-104 documenting the **recompletion** of the H.M. Britt No. 12 well, **between 2293' and 2983'** (Upper-Eumont interval).
- 1-11-02 Pertaining to the H.M. Britt No. 12 well, received BLM condition of acceptance, corresponding to 3160-5, dated 1-8-02, which condition stated "...Production Status will be monitored/checked in 1 year. Production **must be maintained** (emphasis added)..."

7-1-96

Pertaining to the H.M. Britt Nos. 2 and 12 wells, filed C-104 corresponding to Change of Operator, from Meridian to Doyle Hartman.

District I
PO Box 1960, Hobbs, NM 88241-1960
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brava Rd., Alamogordo, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator Name and Address DOYLE HARTMAN 500 N. Main Midland, Texas 79701		OGRID Number 6473
		Reason for Filing Code CH 7/1/96
API Number 30 - 025-05990	Pool Name Eunice Monument GB/SA	Pool Code 23000
Property Code 19147	Property Name Britt	Well Number 2

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
C	7	20S	37E		660	FNL	1980	FWL	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
Lea Code F	Producing Method Code Shut-In	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description

IV. Produced Water

POD	POD ULSTR Location and Description

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Don Mashburn
Printed name: Don Mashburn
Title: Engineer
Date: 7-1-96 Phone: (915) 684-4011

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR

Title:
Approval Date: JUL 12 1996

If this is a change of operator fill in the OGRID number and name of the previous operator -

Previous Operator Signature: Paul M. Callaway Printed Name: Paul M. Callaway Title: Production Supt Date: 7/10/96

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

En State of New Mexico
Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-10a
Revised February 10, 1994

Instructions on back
Submit to Appropriate District Office
5 Copies

22101 B

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Doyle Hartman 500 N. Main Midland, Texas 79701		² OGRID Number 6473
		³ Reason for Filing Code CH 7-1-96
⁴ API Number 30-025-05999	⁵ Pool Name Eumont, Yates, 7Rivers, Queen (Pro Gas)	⁶ Pool Code 76480
⁷ Property Code 19147	⁸ Property Name Britt	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	7	20	37		330	N	2281	W	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Les Code Fed.	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
009171	GPM 4044 Penbrook Odessa, TX 79762	1699530	G	

IV. Produced Water

²³ POD 1699550	²⁴ POD ULSTR Location and Description
------------------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations
³⁰ Hole Size	³¹ Casing & Tubing Size	³² Depth Set	³³ Sacks Cement	

VI. Well Test Data

³⁴ Date New Oil	³⁵ Gas Delivery Date	³⁶ Test Date	³⁷ Test Length	³⁸ Tbg. Pressure	³⁹ Csg. Pressure
⁴⁰ Choke Size	⁴¹ Oil	⁴² Water	⁴³ Gas	⁴⁴ AOF	⁴⁵ Test Method

⁴⁶ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Don L. Mashburn

Title:
Engineer

Date:
7-9-96

Phone:
915-684-4011

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Approval Date:

JUL 12 1996

⁴⁷ If there is a change of operator, fill in the OGRID number and name of the previous operator

Previous Operator Signature

Meridian Oil Inc.
Printed Name

Acct. Asst.
Title

7-1-96
Date

9-24-96

BLM issued Conditions of Approval
regarding Temporary Abandonment of
Wells on Federal Lands.

**BUREAU OF LAND MANAGEMENT
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201
505-627-0272**

**Temporary Abandonment of Wells on Federal Lands
Conditions of Approval**

A temporarily abandoned well is defined as a completion that is not capable of production in paying quantities but which may have value as a service well. Pursuant to 43 CFR 3162.3-4 (c), no well may be temporarily abandoned for more than 30 days without the prior approval of the authorized officer.

Temporary Abandonment (TA) status approval requires a successful casing integrity test as follows:

1. A bridge plug or packer must be installed as close to 50 feet above any open perforations or open hole as possible. If a cement plug is used, the top of the cement must be verified by tagging.
2. The wellbore must be filled with corrosion inhibited fluid and pressure tested to 500 psi. The casing shall be capable of holding this pressure for at least 30 minutes with a 10% allowable leakoff.
3. All downhole production/injection equipment (tubing, rods, etc.) shall be removed from the casing if they are not isolated by a packer.
4. A bradenhead test must be conducted. If the test indicates a problem exists, a remedial plan and time frame for remediation shall be submitted within ninety (90) days of the test.
5. Contact the appropriate BLM office at least 24 hours prior to the scheduled Casing Integrity Test. For wells in Chaves and Roosevelt County, call 505-627-0272; Eddy County, 505-234-5972; Lea County 505-393-3612.

Wells that successfully pass the casing integrity test will be approved for Temporary Abandonment (TA) status for a 12 month period provided that the operator:

1. Submits a subsequent Sundry Notice (Form 3160-5) requesting TA approval.
2. Attaches a clear copy or the original of the pressure test chart.
3. Provides justification why the well should be temporarily abandoned rather than permanently plugged and abandoned and an estimated date that the well will be returned to beneficial use or plugged and abandoned.
4. Describes the temporary abandonment procedure.

The TA status could be extended without another casing integrity test provided there was no leak-off during the test and the test was witnessed by a BLM representative.

If the well does not pass the casing integrity test, then the operator shall within 30 days submit to BLM for approval one of the following:

1. A procedure to repair the casing so that a TA approval can be granted.
2. A procedure to plug and abandon the well.

Ref: IM: NM-95-022 (12/16/94)

7-25-00

Received BLM certified notice, dated July 24, 2000, regarding six long-time abandoned H.M. Britt Lease wells (7-20S-37E).



United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Hobbs Field Station
414 W. Taylor
Hobbs, New Mexico
Phone (505)393-3612 Fax(505)393-4280

CERTIFIED MAIL RETURN RECEIPT REQUESTED
Z 402 901 166

July 24, 2000

Doyle Hartman
P.O. Box 10426
Midland, Tx. 79702

Gentlemen:

Our records show that the well(s) on the attached list are operated by you and are Shut-In (SI) or Temporarily Abandoned (TA). The Bureau of Land Management (BLM) and Minerals Management Service (MMS) definition of a shut-in well is a completion that is physically and mechanically capable of production in paying quantities or capable of service use. The definition of a temporarily abandoned well is a completion that is not capable of production in paying quantities but which may have value as a service completion. According to our records the well(s) listed have been shut-in for 6 months or longer or have been temporarily abandoned without authorization. 43 CFR 3162.3-4(c) requires that wells incapable of production in paying quantities be promptly plugged and abandoned and requires approval for any well temporarily abandoned for more than 30 days.

Accordingly, you are to take one of the following actions for each well listed:

1. Return the well to production
2. Plug and abandon the well.
3. Request approval for temporary abandonment, including justification for request, and information regarding last casing integrity test on well.

If you decide to return the well(s) to production or beneficial use, submit a Sundry Notice of intent within 30 days of receipt of this letter. Include the date you anticipate the well(s) being placed back in service. Use Form 3160-5 and submit the original and 5 copies for each well. 43 CFR 3162.4-1(c) also requires you to notify the Authorized Officer, not later than the fifth business day after production is resumed for any well which has been off production for more than 90 days, the date on which such production was resumed. Notification may be by letter or Sundry Notice, or orally followed by letter or Sundry Notice.

DOYLE HARTMAN
OIL OPERATOR
RECEIVED

JUL 25 2000

If you decide to plug and abandon the well(s), submit a separate Sundry Notice (Form 3160-5, original and 5 copies) for each well within 30 days of receipt of this letter and describe the proposed plugging program.

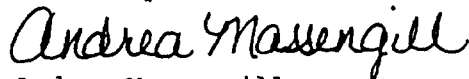
If you decide to temporarily abandon the well(s), submit a Sundry Notice (Form 3160-5, original and 5 copies) within 30 days of receipt of this letter, and state your justification for carrying the well(s) in a Temporarily Abandoned status. Justification must include the reason(s) why the well(s) should not be permanently plugged and abandoned. If the well(s) is/are to be used for beneficial purposes, include information concerning future use. A brief description of your proposed plans and economic feasibility and an anticipated date for placing the well(s) in beneficial use will suffice. Beneficial use includes, but is not limited to, recompletion to other horizons, conversion to injection for secondary or enhanced recovery, and salt water disposal. Approval for temporary abandonment may be denied if the Authorized Officer determines your justification is not reasonable.

For monitoring and tracking purposes, please submit appropriate paperwork for wells identified on attached list to Bureau of Land Management, 414 W. Taylor, Hobbs, New Mexico 88240, Attention: Andrea Massengill. This information will be forwarded to Carlsbad Field Office for final disposition.

Contact Andrea Massengill at the Hobbs Field Station, (505) 393-3612 if you have any questions.

Under provisions of 43 CFR 3165.3, you may request a State Director's Review of the orders described above. Such a request including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P.O. Box 27115, Santa Fe, New Mexico 87502-0115. Such request shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders, or decisions are contained in 43 CFR 3165.4 and 43 CFR Part 4.

Sincerely,



Andrea Massengill
Production & Accountability Tech

Attachment: (1)
List of TA/SI Wells

OPERATOR
Doyle Hartman

Lease Number	Well Name	Well No./API No.	Status
NMLC031621A	Britt A-6	#03/300250593900S1	TA
NMLC031621A	Britt A-6	#02/300250593800S1	TA
NMLC031621A	Britt A-7	#02/300250599000S1	TA
NMLC031621A	Britt A-7	#04/300250599200S1	TA
NMLC031621A	Britt A-7	#05/300250599300S1	TA
NMLC031621A	Britt A-7	#13/300250600000S1	TA
NMLC031621A	Britt A-7	#10/300250599700S1	OSI
NMLC031621A	Britt A-7	#11/300250599800S1	OSI
NMLC031621B	Britt B-8	#02/300250600700S1	TA
NMLC032450B	Cortland Myers	#02/300252574500S1	TA
NMNM84618	Britt Laughlin	#05/300250590700S1	TA
NMNM84618	Britt Laughlin	#04/300250600500S1	TA
NMNM7486	Jack A-20	#09/300252480300S1	TA
NMNM7488	Myers B Fed	#01/300251103700S1	GSI
NMNM71093	Meyer B-28 A	#03/300252487700S1	TA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Lea County Inspection Section
414 West Taylor Street
Hobbs, New Mexico 88240

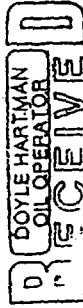
CERTIFIED

Z 402 901 166

MAIL

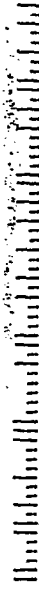
OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

Doyle Hartman
P.O. Box 10426
Midland, Tx. 79702



JUL 25 2000

79702X742\$



11-27-00

Due to rig shortage, filed 3160-5 requesting a six-month start-date extension, for commencing required well work, as to abandoned H.M. Britt Lease wells listed in BLM's 7-24-00 certified notice.

DOYLE HARTMAN

Oil Operator

500 NORTH MAIN

P.O. BOX 10426

MIDLAND, TEXAS 79702

(915) 684-4011

(915) 682-7616 FAX

November 27, 2000

Andrea Massengill
Bureau of Land Management
414 W. Taylor
Hobbs, New Mexico 88240

Re: Notice Sent Certified Mail, Certified No. Z 402 901 166

Ms. Massengill,

Enclosed please find an original and 5 copies of Sundry Notice (Form 3160-5), for each well, as requested in your letter to us sent via certified mail, received by us on July 25, 2000 (copy enclosed).

If you have questions, please feel free to contact us.

Sincerely yours,

Doyle Hartman, Oil Operator

Linda Land

Linda Land
Controller

Operator's Cg

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)

660' FNL & 1980' FWL (C) Section 7, T-20-S, R-37-E, NMPM

5. Lease Designation and Serial No.
LC-031621A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

H.M. Britt #2

9. API Well No.

30-025-05990

10. Field and Pool, or Exploratory Area

Eunice Monument

11. County or Parish, State

Lea Co., NM

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
- Temp. Abandonment & Casing Integrity Test
-
- ☐
- 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.)

We plan to perform a casing integrity test on the subject well, and if necessary we will repair the casing. After testing casing and making any repairs (if needed), it is our intention to temporarily abandon subject well pending further evaluation. Due to rig and equipment availability we plan to commence work on or about May 1, 2001.

RECEIVED
2000 NOV 29 A 7:51
BUREAU OF LAND MANAGEMENT
DEPT. OF THE INTERIOR
WASHINGTON, D.C. 20240

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

Signed Tricia BarnesTitle Tricia Barnes, Production AnalystDate 11/27/00

(This space for Federal or State office use)

Approved by See H. LouTitle Petroleum EngineerDate 12/27/2000Conditions of approval, if any: See attached. Test well w/in 90 days.

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.

5-3-01

Pertaining to the H.M. Britt No. 2, filed 3160-5 Notice of Intent corresponding to the repair of the H.M. Britt No. 2 wellbore, and recompletion of well “...as Eumont producer, as **replacement for adjacent** H.M. Britt No. 12 Eumont well (C-7-20S-37E) [emphasis added]...”

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY FORM 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)
 660' FNL & 1980' FWL (C) Section 7, T-20-S, R-37-E, NMPM

5. Lease Designation and Serial No.
 LC-031621A
 6. If Indian, Allottee or Tribe Name
 7. If Unit or CA, Agreement Designation
 8. Well Name and No.
 H.M. Britt No. 2
 9. API Well No.
 30-025-05990
 10. Field and Pool, or Exploratory Area
 Eunice Monument
 11. County or Parish, State
 Lea Co., NM

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

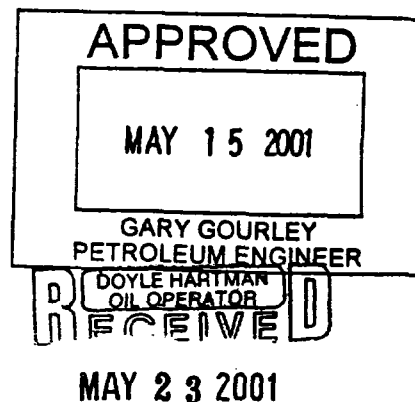
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other: Return to Production
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)

Please refer to page 2 of 2 attached hereto.

APPROVED FOR 2 MONTH PERIOD
 ENDING 7/21/01



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

Signed Tricia Smith

Title Tricia Smith, Production Analyst

Date 05/03/01

(This space for Federal or State office use)

Approved by _____
 Conditions of approval, if any:

Title _____

Date _____

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

RECEIVED

2001 MAY -7 AM 10:18

BUREAU OF LAND MGMT.
ROSWELL OFFICE

2001 MAY -7 AM 10:18

Page 2 of 2

BLM Form 3160-5 dated 5-03-01

Doyle Hartman

H.M. Britt No. 2

C-7-20S-37E

API No. 30-025-05990

In regard to the BLM's July 24, 2000 notice pertaining, in part, to non-producing wells on the 320-acre H. M. Britt lease (Sec. 7, T-20-S, R-37-E), as to the H.M. Britt No. 2 well, we hereby propose performing the following well operations.

1. Move in and rig up well service unit.
2. Run work string equipped with cementing stinger.
3. Sting into retainer setting at 3390'.
4. Establish pump-in rate.
5. Squeeze cement existing Grayburg perms, from 3453' - 3538'.
6. Drill out retainer and cement.
7. Rig up Schlumberger. Log well with VDCBL-GR-CCL log and DS-CNL-GR-CCL log.
8. If warranted (by results of logging job), run combination 5 1/2" O.D. x 5" O.D. casing string, to seal off the following squeeze perms, from 598' to 3538'.

<u>Squeeze</u> <u>Date</u>	<u>Depth</u>	<u>Holes</u>	<u>Cement Volume</u> <u>(sx)</u>	<u>Remarks</u>
6-24-77	3400	2	600	
6-25-77	2500	2	0	
6-25-77	950	2	850	
6-26-77	775	2	850	
6-28-77	598	2	450	
6-30-77	598	2	250	
3453-3538				Perforated 7-6-77
Total			2230 sx	

9. Cement 5 1/2" O.D. x 5" O.D. casing string back to surface.
10. Complete well, as Eumont producer, as replacement for adjacent H.M. Britt No. 12 Eumont well (C-7-20S-37E), which currently produces highly corrosive water, that has resulted in costly well operations; i.e., continual rod parts and tubing leaks.

5-4-01

Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Notice of Intent corresponding to the cleanout and logging of the H.M. Britt No. 12 well, which well work was "...necessary for the proper abandonment of the well, in order to ensure against future upward migration [sic] of formation water, on outside of 5 ½" O.D. casing string...", and the watering out of gas-productive Eumont strata, in C-7-20S-37E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM 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)
330 FNL & 2281 FWL, Sec. 7, T-20-S, R-37-E, (C)

5. Lease Designation and Serial No.
LC031621A

6. If Indian, Allocated or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
H.M. Britt No. 12

9. API Well No.
30-025-05999

10. Field and Pool, or Exploratory Area
Eumont Yates 7RQ (Pro Gas)

11. County or Parish, State
Lee County, New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Clean out wellbore. Run bond log.</u>	<input type="checkbox"/> Dispose Water

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

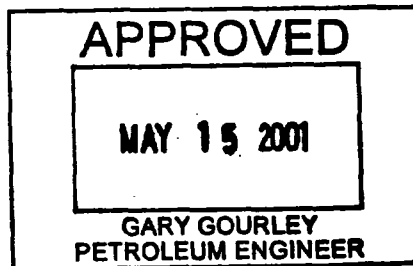
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

This well has a long history of excessive operating costs, due to continual rod parts and tubing leaks, caused primarily by the production of highly corrosive and abrasive formation water.

At the present, the well is again off of production. While a well service unit is on well, to return the well to production, we propose to evaluate the quality of the 1-29-77 cement job, by running a VDCBL-GR-CCL log, which will necessitate cleaning out existing fill, and drilling up retainer at 3495'. The same work would also be necessary for the proper abandonment of the well, in order to ensure against future upward immigration of formation water, on outside of the 5 1/2" O.D. casing string.

DOYLE HARTMAN
OIL OPERATOR
RECEIVED

MAY 23 2001



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

Signed Tricia Smith

Title Tricia Smith, Production Analyst

Date 05/04/01

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

RECEIVED

2001 MAY - 7 AM 10:18

BUREAU OF LAND MGMT
ROSWELL OFFICE

MAY 12 2001

9-25-01

Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Subsequent Report of completed well work, that was performed, on 6-23-01, to:

(1) temporarily abandon H.M. Britt No. 12 well,

(2) squeeze off existing producing interval, and

(3) repair defective cement.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Operator's Copy

FORM 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)

330' FNL & 2281' FWL Sec. 7, T-20-S, R-37-E (C)

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.

Britt No. 12

9. API Well No.

30-025-05999

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 Temporary
☐ Recompletion Abandonment
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Squeeze Producing Interval
Repair Defective Cement

- ☐ 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.)

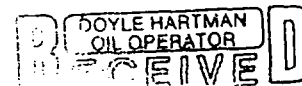
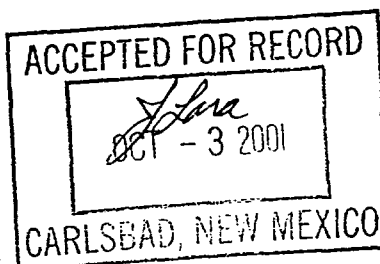
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

In conjunction with our completion of the Britt No. 2 well (C-7-20S-37E), as a replacement adjacent Eumont producer, the following abandonment operations, as described on pages 1 of 4, 2 of 4, 3 of 4 and 4 of 4 (attached hereto), have been performed, corresponding to the high-operating-cost Britt No. 12 Eumont completion (C-7-20S-37E).

Note to Operator:

TA approval requires
an estimated time frame
for a recompletion attempt.

Submit this information w/in 30 days.



OCT 04 2001

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

Signed *Steve Hartman*

Title Steve Hartman, Engineer

Date 09/25/01

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title

Date

RECEIVED

2002 JAN 10 AM 10:26

BUREAU OF LAND MGMT.
ROSWELL OFFICE

DETAILS OF COMPLETED OPERATIONS

Found tubing leak on April 21, 2001.

Moved in and rigged up well service unit, on May 3, 2001, to repair tubing leak (after waiting 12 days for available well service unit). Pulled rods and pump.

Blew down casing. Pulled 2 7/8" O.D. tubing. Replaced corroded and rod-cut tubing joints.

Ran 2 7/8" O.D. tubing, 4 3/4" bit, and 5 1/2" casing scraper, to 3432'. Pulled bit and scraper.

Ran 2 7/8" O.D. tubing and 179.53' bottom-hole drilling assembly, consisting of 4 3/4" bit and (6) 3 1/8" O.D. drill collars, to 3288'. Hooked up air unit. Blew hole dry.

Cleaned out wellbore, to 3500'. Blew hole dry. Raised bottom-hole assembly 16 joints. Shut in well, for pressure buildup. 35-hr SICP = 95 psig (buildup plot enclosed).

Lowered bottom-hole drilling assembly, to 3500'. Commenced drilling on 5 1/2" retainer (set 1-27-77). After drilling on retainer, for 1.25 hrs, slips relaxed, and retainer dropped 16'. Drilled up remainder of retainer. Cleaned out wellbore, to 3653' (top of cement covering CIBP at 3670').

Loaded wellbore with 2% KCL water. Pulled 197.53' bottom-hole assembly.

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

Ran tubing and rods. Returned well to production, at 7:30 P.M., CDT, 5-9-01.

Moved well service unit back onto well, on 6-22-01. Pulled and laid down rods and pump. Pulled and laid down corroded and rod-cut 2 7/8" O.D. production tubing (installed, in well, in February, 2000).

Rigged up Capitan Corporation wireline truck. Perforated 5 1/2" O.D. casing, from 3344' to

3582' (below Eumont perfs), with (27) 0.38" x 19" squeeze holes.

Ran 2 7/8" O.D., 6.5 lb/ft, N-80, EUE work string, 5 1/2" Model "C" packer, and 5 1/2" Model "C" RBP.

Set 5 1/2" Model "C" RBP, at 3600'. Spotted 400 gal of 15% NEFE acid across and above squeeze perfs, from 3344' to 3582'. Raised and set 5 1/2" Model "C" packer, at 3479'. Pumped an additional 500 gal of 15% NEFE acid down 2 7/8" O.D. tubing. Allowed acid to soak, for 30 minutes. Acidized squeeze perfs, from 3489' to 3582' (15 holes), with an additional 1200 gal of 15% NEFE acid, at an average treating pressure of 200 psi. Observed no ball action. Had strong blow on 5 1/2" x 2 7/8" casing-tubing annulus. Upon shutting down, 5 1/2" O.D. casing went on a strong vacuum.

Raised 5 1/2" Model "C" RBP, to 3470'. Set 5 1/2" Model "C" packer, at 3315'. Acidized squeeze perfs, from 3344' to 3446' (12 holes), with 1900 gal of 15% MCA acid and 25 ball sealers, at an average treating rate of 4.5 BPM, and an average treating pressure of 200 psi. Observed no ball action.

Raised and set 5 1/2" Model "C" packer, at 2750'. Loaded 5 1/2" x 2 7/8" casing-tubing annulus. Pressure tested 5 1/2" O.D. casing, from 0' to 2750', to 2500 psi. Pressure held okay.

Pulled 2 7/8" O.D. work string and 5 1/2" Model "C" packer.

Rigged up Capitan Corporation. Perforated (11) 0.38" x 23" squeeze holes:

3199'	3211'	3232'	3612'
3207'	3213'	3235'	3617'
3209'	3228'	3604'	

Ran and set 5 1/2" Model "C" packer, at 2500'. Loaded 5 1/2" O.D. x 2 7/8" casing-tubing annulus. Pressured annulus to 2500 psi. Repaired defective cement job, and isolated water productive strata, from gas productive strata, by squeeze cementing all perforations (both production and squeeze perfs), from 2822' to 3617' (76 holes), with 1900 sx of API Class "C" neat cement, 300 sx of API Class "C" cement containing 3% CaCl₂, 3 lbs/sx Gilsonite, and 0.25 lb/sx Flocele, and 300 sx of API Class "C" cement containing 2% CaCl₂, 3.0 lb/sx

Page 4 of 4
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 12
C-7-20S-37E
API No. 30-025-05999

Gilsonite, and 0.25 lb/sx Flocele (total of 2500 sx). Displaced cement slurry, to 2800', with 22.6 bbls of water. Maximum squeeze pressure = 4000 psi, at 0.5 BPM. 15-min SIP = 3460 psi.

Released 5 1/2" Model "C" packer. Raised packer 4 joints. Reset packer. Opened packer by-pass valve. Reversed 18 bbls of water up 2 7/8" O.D. tubing, to pit. Closed by-pass valve. Pressured 2 7/8" O.D. tubing, to 2000 psi. Rigged down Halliburton, at 9:00 P.M., CDT, 6-23-01.

Pulled and laid down 2 7/8" O.D. workstring and 5 1/2" O.D. Model "C" packer.

Wellbore now temporarily abandoned, pending potential recompletion to currently non-producing Eumont (Yates-Upper 7R) interval.

9-25-01

Pertaining to the H.M. Britt No. 2 well, filed 3160-5 Subsequent Report of completed well work, that was performed to:

(1) repair casing and cement,

(2) return well to beneficial use (on 6-27-01), “...**as replacement Eumont producer**, for adjacent Britt No. 12 Eumont well (emphasis added).”

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM 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)

660' FNL & 1980' FWL (C) Section 7, T-20-S, R-37-E, NMPM

DOYLE HARTMAN
OIL OPERATOR
RECEIVED

OCT 05 2001

5. Lease Designation and Serial No.
LC-031621A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

H.M. Britt No. 2

9. API Well No.

30-025-05990

10. Field and Pool, or Exploratory Area

Eumont (Y-7R-Qn)

11. County or Parish, State

Lea Co., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input checked="" type="checkbox"/> Casing Repair & Cement Repair	<input checked="" type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Return to Beneficial Use*	<input type="checkbox"/> Dispose Water
	(Replacement for Adjacent Britt No. 12 Eumont Well)	

(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 1 of 7, 2 of 7, 3 of 7, 4 of 7, 5 of 7, 6 of 7, and 7 of 7 attached hereto, and made a part hereof.

ACCEPTED FOR RECORD
David R. Glass
OCT - 3 2001
DAVID R. GLASS
PETROLEUM ENGINEER

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

Signed *Steve Hartman*

Title Steve Hartman, Engineer

Date 09/25/01

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

RECEIVED

2001 SEP 27 AM 10:34

BUREAU OF LAND MGMT.
ROSWELL OFFICE



Page 2 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

DETAILS OF COMPLETED OPERATIONS

Moved in and rigged up well service unit. Installed B & M Oil Tool 7" x 2 3/8" x 3" Type MR tubinghead.

Ran new string of 2 3/8" O.D., 4.7 lb/ft, J-55, EUE tubing equipped with cementing stinger. Stung into 7" EZ-Drill retainer; at 3389' (set 3-24-98). Cemented old perfs (7-6-77), from 3453' to 3538', with 150 sx of API Class "C" cement containing 2% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, to a maximum squeeze pressure of 4436 psi. Reversed excess cement from tubing. Pulled 2 3/8" O.D. tubing and cementing stinger.

Ran 2 3/8" O.D. tubing equipped with 185.52' bottom-hole assembly, consisting of 6 1/4" bit and (6) 4 3/4" O.D. drill collars. Drilled cement (including 7" EZ-Drill retainer), from 3389' to 3544'.

Lowered bottom-hole drilling assembly, to PBTD of 3762'. Circulated hole clean. Pulled 2 3/8" O.D. tubing and bottom-hole drilling assembly.

Rigged up Schlumberger. Logged well with DS-CNL-GR-CCL log (dated 5-24-01) and VDCBL-GR-CCL log (dated 5/24/01).

Rigged up Capitan Corporation wireline truck. Perforated 7" O.D. casing, from 3323' to 3495', with (15) 0.44" x 23" squeeze holes.

Ran 2 3/8" O.D. tubing equipped with Baker 7" Model "C" packer and 7" Model "C" RBP. Set 7" Model "C" RBP, at 3510'. Spotted 150 gal of acid across and above squeeze perfs, from 3323' to 3495'.

Raised and set 7" Model "C" packer, at 3425'. Acidized squeeze perfs, from 3448' to 3495' (4 holes), with an additional 200 gal (total of 350 gal) of 15% NEFE acid. Performed injectivity test, at 2 BPM, at 1200 psi. ISIP = 0 psi.

Raised and set 7" Model "C" RBP, at 3425'. Spotted 150 gal of acid across and above squeeze perfs, from 3323' to 3408' (11 holes). Acidized squeeze perfs, from 3323' to 3408',

Page 3 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

with an additional 500 gal (total of 650 gal) of 15% NEFE acid. Performed injectivity test (3323' to 3408'), at 3.0 BPM, at 1025 psi.

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

Rigged up Capitan Corporation wireline truck. Set 7" EZ-Drill cementing retainer, at 3298'.

Ran 2 3/8" O.D. tubing equipped with cementing stinger. Cemented squeeze perfs, from 3323' to 3495' (15 holes), with 400 sx of API Class "C" neat cement, followed by 150 sx of API Class "C" cement containing 2 % CaCl_2 , 3 lbs/sx Gilsonite, and 0.25 lb/sx Flocele, to a maximum squeeze pressure of 4400 psi, at 0.2 BPM. Reversed excess cement from tubing. Pulled 2 3/8" O.D. tubing and cementing stinger.

Rigged up Capitan Corporation. Perforated 7" O.D. casing, from 3055' to 3230', with (22) 0.44" x 23" squeeze holes.

Ran and set 7" Model "C" packer, at 3240'. Spotted 400 gal of 15% NEFE acid across and above squeeze perfs, from 3055' to 3230' (22 holes). Acidized squeeze perfs, from 3055' to 3230', with an additional 300 gal (total of 700 gal) of 15% NEFE acid. Performed injectivity test (3055' to 3230'), at 3 BPM, at 1750 psi. Pulled 7" Model "C" packer.

Rigged up Capitan Corporation. Set 7" EZ-Drill retainer, at 3000'. Ran 2 3/8" O.D. tubing equipped with cementing stinger. Cemented squeeze perfs, from 3055' to 3230' (22 holes), with 400 sx of API Class "C" neat cement, followed by 100 sx of API Class "C" cement containing 2% CaCl_2 , 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Final squeeze pressure = 4424 psi.

Reversed excess cement from tubing. Pulled 2 3/8" O.D. tubing and cementing stinger.

Ran 185.52' bottom-hole drilling assembly, equipped with 6 1/4" bit and (6) 4 3/4" O.D. drill collars. Drilled cement (including 7" EZ-Drill retainer), from 3055' to 3250'.

Lowered bottom-hole drilling assembly, to top of retainer, at 3298'. Drilled cement (including 7" EZ-Drill retainer), from 3298' to 3550'.

Lowered bottom-hole drilling assembly, to 3762'. Circulated hole clean. Pulled bottom-hole

Page 4 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

drilling assembly.

Rigged up Capitan Corporation. Perforated (11) 0.44" x 23" squeeze holes, from 2955' to 3039'.

Rigged up casing crew. Ran 5 1/2" x 5" combination casing string.

92 jts of 5 1/2" O.D. , 14 lb/ft, J-55, ST&C casing	2985.01'
5 1/2" x 5", J-55 casing crossover (at 2985')	1.31'
25 jts of 5" O.D., 15 lb/ft, J-55, ST&C casing	756.57'
equipped with (25) 7" x 5" centralizers	
(1) TIW 5" Type C-LF landing collar	1.22'
(1) 5" O.D., 15 lb/ft, J-55 ST&C pup joint	15.14'
(1) TIW 5" Type TC226 double-valve set shoe	2.90'
<hr/> Total	<hr/> 3762.15'

Landed 5 1/2" x 5" combination casing string at 3761', with landing collar at 3743', and 5 1/2" x 5" casing crossover at 2985'.

Cemented casing, at 5.3 BPM, with 200 sx of API Class "C" neat cement, followed by 325 sx of API Class "C" cement, containing 1.25 % CaCl₂, 1.40 lb/sx Gilsonite, and 0.12 lb/sx Flocele. Displaced wiper plug, with 84 bbls of fresh water, at an initial displacement rate of 5 BPM. Final displacement rate was 0.25 BPM, at 4000 psi. Circulated 200 sx of excess cement to pit. Released pressure. Float held okay.

Pressured 7" x 5 1/2" casing annulus to 1000 psi. Closed 3" casing-annulus valve.

Installed 5 1/2" x 2 3/8" x 3" tubinghead. Installed BOP.

Ran 176.71' bottom-hole drilling assembly, consisting of 4 3/4" bit and (6) 3 1/8" drill

Page 5 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

collars, to 2985' (top of 5 1/2" x 5" crossover). Found no cement inside of 5 1/2" O.D. casing. Pulled 176.71' bottom-hole drilling assembly.

Ran 179.83' bottom-hole drilling assembly, consisting of 4 1/4" bit, 5" casing scraper, and (6) 3 1/8" drill collars. Drilled cement, from 3348' to 3743' (top of 5" landing collar). Circulated hole clean. Pulled 179.83' bottom-hole drilling assembly.

Rigged up Schlumberger. Logged well with VDCBL-GR-CCL log (dated 6-5-01) and Temperature-GR-CCL log (dated 6-5-01). Found good bonding, from 2955' to 3743'.

Ran 2 3/8" O.D. tubing. Rigged up air unit. Unloaded water from hole. Pulled 2 3/8" O.D. tubing.

Rigged up Capitan Corporation. Perforated Penrose (Lower Queen), from 3215' to 3277', with (18) 0.38" x 19" holes.

Ran and set 5" Model "C" packer, at 3290'. Spotted 150 gal of acid across and above perfs, from 3215' to 3277'. Raised packer to 3135'. Pumped an additional 350 gal of spot acid down 2 3/8" O.D. tubing. Let acid soak for 45 minutes.

Acidized perfs, from 3215' to 3277' (18 holes), with an additional 3000 gal (total of 3500 gal) of 15% MCA acid, and 22 ball sealers, at 4.1 BPM, and an average treating pressure of 2177 psi. $TP_{max} = 2800$ psi (at ballout).

ISIP = 972 psi.
2-min SIP = 132 psi.
4-min SIP = 0 psi.

Pulled 5" Model "C" packer.

Ran and set 2 3/8" O.D. tubing, at 3510' RKB (107 jts @ 32.56'/jt + 1.1' SN + 18' MA - 3' AGL + 10' KBC = 3510.02'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" rod string consisting of (138) 3/4" x 25' Axelson S-87 API Class "KD" rods, (1) 3/4" x 8' rod sub, (2) 3/4" x 2' rod subs, and 1 1/4" x 16' polish rod. Commenced pump testing Penrose (Lower Queen) perfs, at 8:00 P.M., CDT, 6-6-01, at 8.5 spm x 74" x 1 1/4". Observed the following well performance:

Page 6 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

Date: 6/18/01
Gas Rate = 25 MCFPD
Water Rate = 1.54 BPD
Orifice Size = 0.250"
CP = 10.2 psi

Rigged up well service unit. Pulled rods and tubing.

Ran and set 5" Model "C" RBP, at 3205'. Loaded casing, with 20 bbls of 2% KCL water.

Rigged up Schlumberger. Re-logged well, from 2350' to 3205', with DS-CNL-GR-CCL log (dated 6-19-01).

Ran 2 3/8" O.D. tubing. Hooked up air unit. Unloaded water from hole. Pulled 5" Model "C" RBP.

Rigged up Capitan Corporation. Perforated 5" O.D. casing, from 3551' to 3697', with 14 squeeze holes. Ran 5" Model "C" packer. Acidized squeeze perfs, from 3551' to 3697', with 400 gal of 15% NEFE acid. Performed injectivity test (3551' to 3697'), at 3.75 BPM, at 1600 psi. Pulled 5" Model "C" packer.

Rigged up Capitan Corporation. Set 5" EZ-Drill retainer, at 3540'. Ran 2 3/8" O.D. tubing equipped with cementing stinger.

Cemented squeeze perfs, from 3551' to 3697', with 166 sx of API Class "C" cement. Flushed cement with 13.6 bbls of 2% KCL water, at a maximum pressure of 4300 psi, at 1.6 BPM.

Pulled out of retainer. Raised tubing 1 jt. Hooked up air unit. Unloaded water from hole. Pulled 2 3/8" O.D. tubing and cementing stinger.

Rigged up Capitan Corporation. Perforated Upper Queen, from 3017' to 3174', with (14) 0.38" x 19" holes.

Ran 2 3/8" O.D. tubing, 5" Model "C" packer, and 5" Model "C" RBP. Set 5" Model "C" RBP, at 3198'. Spotted 650 gal of acid across and above perfs, from 3017' to 3174'. Raised

Page 7 of 7
BLM Form 3160-5 dated 9-25-01
Doyle Hartman
H.M. Britt No. 2
C-7-20S-37E
API No. 30-025-05990

and set 5" Model "C" packer, at 3000'. Acidized perfs, from 3017' to 3174' (14 holes), with an additional 2350 gal (total of 3000 gal) of 15% MCA acid and 16 ball sealers, at an average treating rate of 4.0 BPM and average treating pressure of 2700 psi. $TP_{mx} = 3300$ psi (at ballout). Pulled 5" Model "C" packer and 5" Model "C" RBP.

Ran 2 3/8" O.D. tubing. Hooked up air unit. Unloaded acid water from hole. Landed bottom of tubing at 3510'. Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" rod string. Resumed pump testing well, at 8.5 spm x 74" x 1 1/4".

Shut in casing, for pressure buildup, at 12:30 P.M., CDT, 6-24-01. 19.5-hr SICP=85 psig.

Pulled rods and pump. Raised and landed bottom of tubing, at 2958'. Installed 2 3/8" O.D. carbide blast joint and 3" heavy-duty side valves. Made up flowing wellhead assembly.

Rigged up Halliburton. Performed CO₂ foam frac down 5 1/2" x 2 3/8" casing-tubing annulus, with 165, 171 gal of gelled water and CO₂, plus a combined total of 350,000 lbs of 20/40, 10/20, and 8/16 frac sand, at an average treating rate of 25.6 BPM and average wellhead casing pressure of 2549 psi. Static wellhead tubing pressure = 1925 psig.

Left well shut in for one hour. Opened to blowdown tank, for overnight cleanup.

Removed carbide blast joint and 3" heavy-duty frac valves. Installed 3" production ball valves. Lowered 2 3/8" O.D. tubing. Tagged top of sand fill, at 3422'. Hooked up air units. Cleaned out frac sand, to PBTD of 3520'.

Raised and landed bottom of 2 3/8" O.D. tubing, at 3445' RKB (105 jts. @ 32.56'/jt + 1.1' SN + 18' MA - 3' AGL + 10' KBC = 3444.9'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" rod string, consisting of (136) 3/4" x 25' Axelson S-87 API Class "KD" rods, (1) 3/4" x 4' rod sub, and 1 1/4" x 16' polish rod. Returned well to beneficial use, on 6-27-01, as replacement Eumont producer, for adjacent Britt No. 12 Eumont well.

9-25-01

Pertaining to the H.M. Britt No. 2 well, filed 3160-4 Recompletion Report corresponding to the recompletion of H.M. Britt No. 2 well, **between 3017' and 3277', "... as replacement for adjacent Britt No. 12 Eumont well (emphasis added)..."**

OPERATOR'S COPY

Form 3160-4
(July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

FORM APPROVED

OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

LC-031621-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Britt No. 2

9. API WELL NO.

30-025-05990 0052

10. FIELD AND POOL, OR WILDCAT

Eumont (Y-7R-Q) Gas

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 7, T-20-S, R-37-E, NMPM

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐ DOYLE HARTMAN OIL OPERATOR

2. NAME OF OPERATOR

Doyle Hartman

3. ADDRESS AND TELEPHONE NO.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

660' FNL & 1980' FWL (C) Section 7, T-20-S, R-37-E, NMPM

At top prod. Interval reported below

Same

At total depth

Same

Commencement Date

05/22/01

16. DATE T.D. REACHED

03/14/36

17. DATE COMPL. (Ready to prod.)

06/27/01

DATE ISSUED

5/15/01 (3160-5)

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)

3563' DF

19. ELEV. CASINGHEAD

3552'

20. TOTAL DEPTH, MD & TVD

3847'

21. PLUG, BACK T.D., MD & TVD

3520'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

0'-3847'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)

3017'-3277' w/(32) 0.38" x 19" holes (7R-Qn)

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DS-CNL-GR-CCL (5-24-01); VDCBL-GR-CCL (5-24-01); VDCBL-GR-CCL (6-5-01); DS-CNL-GR-CCL (6-19-01)

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13"	50#	256'		230 (Circ 6/77)	
9 5/8"	40#	2402'	12.250"	535 (Circ 6/77)	
7"	24#	3806'	8.750"	200 + 3546 = 3746 (Circ 6/77)	
5 1/2" x 5"	14# x 15#	3761'	6.37"	565 (Circ 200)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5 1/2" x 5" Crossover @ 2985'					2 3/8"	3445	---

31. PERFORATION RECORD (Interval, size and number) (32) 0.38" holes

3017 3089 3141 3218 3237 3252 3266
3030 3103 3143 3220 3239 3254 3277
3056 3111 3150 3227 3241 3256
3068 3120 3174 3230 3243 3262
3087 3124 3215 3233 3248 3264

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3017'-3174'	A/3000 15% MCA
3215'-3277'	A/3500 15% MCA
3017'-3277'	SWF/165,161 + 350,000

33. PRODUCTION

DATE FIRST PRODUCTION 06/07/01 7/6/01		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - Flowing @ 8.5 spm x 74" x 1 1/4"				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 07/31/01	HOURS TESTED 24	CHOKE SIZE ---	PROD'N FOR TEST PERIOD →	OIL—BBL. ---	GAS—MCF. 453	WATER—BBL. 8.8	GAS-OIL RATIO ---
FLOW. TUBING PRESS. ---	CASING PRESSURE 62	CALCULATED 24-HOUR RATE →	OIL—BBL. ---	GAS—MCF. 453	WATER—BBL. 8.8	OIL GRAVITY-API (CORR.) ---	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

35. LIST OF ATTACHMENTS

DS-CNL-GR-CCL (5-24-01); VDCBL-GR-CCL (5-24-01); VDCBL-GR-CCL (6-5-01); DS-CNL-GR-CCL (6-19-01); Relevant well data.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Steve Hartman

TITLE Steve Hartman, Engineer

DAVID R. GLASS

PETROLEUM ENGINEER

DATE 09/25/01

*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

Return wellbore to beneficial use, on 6/27/01, as replacement for adjacent Britt No. 12 Eumont well.

RECEIVED

2001 SEP 27 AM 10: 29

BUREAU OF LAND MGMT.
ROSWELL OFFICE

37. SUMMARY OF POROUS ZONES: (Show important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGICAL MARKERS			38. GEOLOGICAL MARKERS		
NAME	TOP		NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH		MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	980'				
Salado	1190'				
Tansill	2250'				
Yates	2415'				
Seven Rivers	2650'				
Queen	3100'				
Penrose	3213'				
Grayburg	3418'				

10-4-01

Pertaining to the H.M. Britt No. 12 well, received BLM "Note to Operator", dated 10-3-01, requesting that operator, **within 30 days**, submit the **proposed time frame** for a recompletion attempt regarding H.M. Britt No. 12 well, which wellbore was **previously** squeezed off and abandoned, as to the **Lower-Eumont interval**, on **6-23-01**.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Operator's
Copy

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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.

Britt No. 12

9. API Well No.

30-025-05900

10. Field and Pool, or Exploratory Area

Eumont (Y-7R-Qn) Gas

11. County or Parish, State

Lea County, New Mexico

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

Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

Name of Operator

Doyle Hartman

Address and Telephone No.

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

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

330' FNL & 2281' FWL Sec. 7, T-20-S, R-37-E (C)

2. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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

TYPE OF ACTION

- ☒ Abandonment Temporary
☐ Recompletion Abandonment
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Squeeze Producing Interval
Repair Defective Cement
☐ 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.)

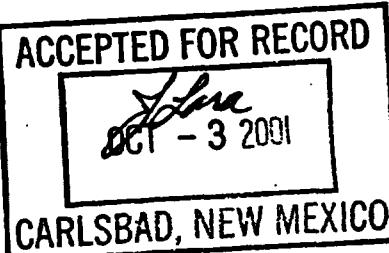
3. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

In conjunction with our completion of the Britt No. 2 well (C-7-20S-37E), as a replacement adjacent Eumont producer, the following abandonment operations, as described on pages 1 of 4, 2 of 4, 3 of 4 and 4 of 4 (attached hereto), have been performed, corresponding to the high-operating-cost Britt No. 12 Eumont completion (C-7-20S-37E).

Note to Operator:

TA approval requires
an estimated time frame
for a recompletion attempt.

Submit this information w/in 300 days.



OCT 04 2001

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

Signed Steve Hartman Title Steve Hartman, Engineer

Date 09/25/01

This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____

Date _____

12-20-01

Pertaining to the H.M. Britt No. 2 well, filed C-104 corresponding to the recompletion of the H.M. Britt No. 2 well, **between 3017' and 3277'**, as **"...replacement for adjacent Britt No. 12 Eumont well (emphasis added)..."**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Reformatted July 20, 2001

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Doyle Hartman 500 N. Main Midland, Texas 79701		² OGRID Number 6473
		³ Reason for Filing Code/ Effective Date RC effective *
⁴ API Number 30 - 025-05990	⁵ Pool Name Eumont (Y-7R-On) Gas	⁶ Pool Code 76480
⁷ Property Code 19147	⁸ Property Name H.M. Britt	⁹ Well Number No. 2

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	07	20S	37E		660'	FNL	1980'	FWL	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Loc Code Fed	¹³ Producing P	¹⁴ Gas 7/6/01	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
020809	Sid Richardson 201 Main Street Ft. Worth, Texas 76102		G	C-07-20S-37E

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
	C-07-20S-37E

V. Well Completion Data

²⁵ Commencement Date	²⁶ Ready Date	²⁷ TD	²⁸ PBSD	²⁹ Perforations	³⁰ DHC, MC
5/22/01	6/27/01	3847'	3520'	3017'-3277'	4,408"
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
	13", 50#	256'	230 (Circ 6/77)		
12.250"	9 5/8", 40#	2402'	535 (Circ 6/77)		
8.750"	7", 24#	3806'	200 + 3546 = 3746 (Circ 6/77)		
6.37"	5 1/4", 14# x 5", 15#	3761'	565 sx (Circ 200 sx)		

VI. Well Test Data (Crossover @ 2985')

³⁵ Date Ready	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
6/27/01	7/6/01	7/31/01	24 hrs	---	62
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
40/128	---	8.8	453		Orifice Meter

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature:

Printed name:
Steve Hartman

Title:
Engineer

Date: 12/20/01 Phone:

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

* Replacement for Adjacent Britt No. 12 Eumont well.

1-8-02

Pertaining to the H.M. Britt No. 12 well, filed 3160-5 Subsequent Report regarding the **recompletion** of the H.M. Britt No. 12 well, and return of wellbore “...**to beneficial use, as Upper Eumont gas producer, from 2293’ to 2983’ (53 holes)**”(emphasis added)...”

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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)
330' FNL & 2281' FWL Sec. 7, T-20-S, R-37-E (C)

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.
Britt No. 12

9. API Well No.
30-025-05999

10. Field and Pool, or Exploratory Area
Eumont 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 Return well to active producing status

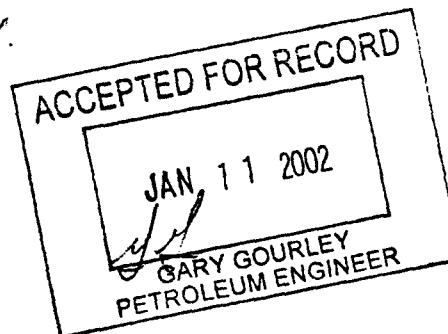
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(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.)

In regard to our 3160-5 filing dated 9/25/01, and the BLM's "note to operator" dated 10/3/01 (copy enclosed), we have performed the following subsequent well work, as described on pages 2 of 5, 3 of 5, 4 of 5 and 5 of 5, attached hereto.

*Production Status will be monitored/checked in 1 year.
Production must be maintained.*



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

Signed Steve Hartman
(This space for Federal or State office use)

Title Engineer

Date 01/08/02

Approved by
Conditions of approval, if any:

Title

Date

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.

RECEIVED

2002 JAN 10 AM 10:26

BUREAU OF LAND MGMT.
ROSWELL OFFICE

Details of Completed Operations

1. Moved in and rigged up well service unit, on 10-16-01.
2. Ran new 2 3/8" O.D. tubing and bottom-hole drilling assembly consisting of 4 3/4" bit and (6) 3 1/2" O.D. drill collars.
3. Drilled cement, from 2725' to 3000'. Pulled drill string.
4. Ran and set 5 1/2" Model "C" packer, at 2833'. Pressure tested wellbore, from 2833' to 3000', to 3000 psi. Pressure held okay.
5. Pressure tested 5 1/2" O.D. casing, from 0' to 2833', to 2000 psi. Pressure held okay.
6. Pulled 5 1/2" Model "C" packer.
7. Re-ran bottom-hole drilling assembly. Drilled an additional 90' of cement, from 3000' to 3090'. Circulated hole clean.
8. Pressure tested wellbore, from 0' to 3090', to 2000 psi. Pressure held okay. Pulled bottom-hole drilling assembly.
9. Rigged up Schlumberger. Logged well with DS-CNL-GR-CCL log and VDCBL-GR-CCL log.
10. Ran open-ended 2 3/8" O.D. tubing. Blew well dry. Pulled 2 3/8" O.D. tubing.
11. Temporarily plugged well back, to 3004', by pouring 10.5 sx of 20/40 frac sand down hole. Flushed frac sand with 2% KCL water. Allowed sand to fall to bottom.
12. Ran 2 3/8" O.D. open-ended tubing. Tagged frac sand, at 3004'. Blew wellbore dry. Pulled 2 3/8" O.D. tubing.
13. Rigged up wireline truck. Perforated wellbore with (4) 0.38" x 19" holes, with one shot each, at 2837', 2850', 2938', 2955'.
14. Ran 2 3/8" O.D. tubing, to 2980'. Spotted 500 gal of 15% MCA acid, from 2380' to 2980'. Shut down overnight. At 8:00 a.m., 10-23-01, SITP = 43 psig.

15. Lowered tubing to 3001'. Spotted an additional 250 gal of 15% MCA acid. Pulled 2 3/8" O.D. tubing.
16. Ran 2 3/8" O.D. tubing and 5 1/2" Model "C" packer. Set 5 1/2" Model "C" packer, at 2197'. Acidized both old and new perforations, from 2837' to 2983' (15 holes), with an additional 2300 gal of 15% MCA acid and 41 ball scalers, at an average treating rate of 4.2 BPM and average treating pressure of 2545 psi. $TP_{mx} = 2680$ psi. ISIP = 1822 psi. 15-min SIP = 1684 psi. Flowed well to blowdown tank, for 22 minutes.
17. Pulled 5 1/2" Model "C" packer. Rigged up wireline truck. Perforated well with (20) 0.38" x 19" holes, with one shot each at:

2586'	2631'	2666'	2713'
2593'	2635'	2671'	2721'
2595'	2646'	2699'	2734'
2605'	2661'	2701'	2744'
2629'	2664'	2711'	2756'

18. Ran 5 1/2" Model "C" packer and 5 1/2" Model "C" RBP. Set RBP at 2790'. Spotted 300 gal of 15% MCA acid across and above perfs, from 2586' to 2756'. Raised and set packer, at 2485'. Pumped an additional 300 gal of acid down 2 3/8" O.D. tubing. Let acid soak for 30 minutes.
19. Acidized perfs, from 2586' to 2756' (20 holes), with an additional 3300 gal of 15% MCA acid and 34 ball sealers, at an average treating rate of 6 BPM and average treating pressure of 2850 psi. $TP_{mx} = 3200$ psi (at ballout). ISIP = 1646 psi. 10-min SIP = 1679 psi. Flowed well to blowdown tank, for 45 minutes.
20. Pulled 5 1/2" Model "C" packer. Rigged up wireline truck. Perforated well with (18) 0.38" x 19" holes, with one shot each at:

2293'	2370'	2414'	2508'
2294'	2387'	2416'	2515'
2323'	2394'	2441'	2517'
2353'	2409'	2443'	
2355'	2412'	2481'	

21. Ran 5 1/2" Model "C" packer and retrieving tool. Raised and set 5 1/2" Model "C" RBP, at 2555'. Spotted 350 gal of 15% MCA acid across and above perfs, from 2293' to 2517'.

Raised and set 5 1/2" Model "C" packer, at 2197'. Let acid soak for 30 minutes. Acidized perms, from 2293' to 2517' (18 holes), with an additional 3700 gal of 15% MCA acid and 27 ball scalers, at an average treating rate of 6.9 BPM and average treating pressure of 3100 psi. $TP_{mx} = 3230$ psi. ISIP = 1656 psi. 15-min SIP = 1544 psi. Did not ball out. Flowed well to blowdown tank, for 20 minutes.

22. Pulled and laid down 5 1/2" Model "C" packer and 5 1/2" Model "C" RBP.
23. Ran and landed 2 3/8" O.D. tubing, at 2977' RKB (93 jts @ 31.73'/jt + 1.1' SN + 18' MA - 3' AGL + 10' KBC = 2976.99'). Ran 2" x 1 1/4" x 12' RHAC insert pump and (118) 3/4" x 25' API Class "KD" rods. Commenced pumping and cleaning up well, at 5:00 p.m., CDT, 10-24-01, at 9.2 x 64 x 1 1/4. At 8:00 a.m., 10-25-01, SICP = 326 psig.
24. After pumping and cleaning up well, for 8 days, performed the following well test:
- | | | |
|--------------|---|-----------|
| Date: | = | 11-1-01 |
| Gas Rate | = | 39 MCFPD |
| Orifice Size | = | 0.250" |
| Water Rate | = | 1.5 BWPD |
| FCP | = | 22.8 psig |
| OP | = | 22.8 psig |
25. Rigged up Halliburton. Cemented down 13 3/8" x 8 5/8" casing annulus, with 240 sx of API Class "C" cement containing 3% CaCl₂. Observed cement returns back to surface, on outside of 13 3/8" O.D. casing. Filled 4' x 4' x 4' cellar box with 48 sx of API Class "C" cement containing 3% CaCl₂. Shut in well, for buildup.
26. Moved in well service unit, on 11-5-01. Blew down casing. Pulled rods and pump. Raised bottom of 2 3/8" O.D. tubing, to 2282'. Installed 3 1/2" heavy-duty frac valves and 2 3/8" carbide blast joint. Made up flowing wellhead assembly. Shut in well, for overnight buildup. 15.5-hr SICP = 491 psig.
27. Rigged up Halliburton frac equipment. Performed CO₂ foam frac down 5 1/2" x 2 3/8" casing-tubing annulus, with 166,248 gal of gelled water and CO₂ (53.2% CO₂), and a total of 400,000 lbs of frac sand (10% 20/40, 15% 10/20, 75% 8/16), at an average treating rate of 29.3 BPM and average wellhead casing pressure of 2766 psig. Static wellhead tubing pressure = 2355 psig.

Page 5 of 5
BLM Form 3160-5 dated 1-08-02
Doyle Hartman
H.M. Britt No.12
C-6-20S-37E
API No. 30-025-05999

28. Flowed well overnight to blowdown tank.
29. Rigged up air units. Cleaned out wellbore, to 3090'. Landed bottom of 2 3/8" O.D. tubing string at 3040' RKB (95 jts @ 31.73'/jt + 1.1' SN + 18' MA - 3' AGL + 10' KBC = 3040.45'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" API Class "KD" rod string. Commenced pumping and cleaning up well, at 4:30 p.m., 11-7-01, for recovery of frac fluid and CO₂.
30. Performed potential test, on 1-2-02.

Gas Rate	=	215 MCFPD
Water Rate	=	5.85 BWPD
CO ₂	=	2%
Choke Size	=	29/128
CP	=	61 psi
LP	=	16.1 psi

Wellbore has now been returned to beneficial use, as Upper Eumont gas producer, from 2293' to 2983' (53 holes).

1-8-02

Pertaining to the H.M. Britt No. 12 well, filed C-104 documenting the **recompletion** of the H.M. Britt No. 12 well, **between 2293' and 2983'** (Upper-Eumont interval).

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2043 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Doyle Hartman P.O. Box 10426 Midland, TX 79702		2 OGRID Number 6473
4 API Number 30 - 0 25-05999		5 Pool Name Eumont Gas
6 Pool Code 76480		7 Property Code 19147
8 Property Name H. M. Britt		9 Well Number 12

II. 10 Surface Location

UI or lot no. C	Section 7	Township 20S	Range 37E	Lot Idn	Feet from the 330'	North/South Line North	Feet from the 2281'	East/West line West	County Lea
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	------------------------	------------------------	---------------

11 Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
12 Les Code F	13 Producing Method Code P	14 Gas Connection Date 11/10/2001	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID 020809	19 Transporter Name and Address Sid Richardson 201 Main Street Ft Worth, TX 76102	20 POD 1699530	21 O/G G	22 POD ULSTR Location and Description C-7-20S-37E

IV. Produced Water

23 POD 1699550	24 POD ULSTR Location and Description C-7-20S-37E
-------------------	--

V. Well Completion Data

25 Spud Date 07/29/1954	26 Ready Date 11/09/2001	27 TD 5713'	28 PBTD 3090'	29 Perforations 2293' - 2983'	30 DHC, DC, MC 5.012"
31 Hole Size 18"	32 Casing & Tubing Size 13-3/8"	33 Depth Set 612'	34 Sacks Cement 450		
11"	8-5/8"	3298'	1900 + 240 = 2140		
7-7/8"	5-1/2"	5713'	500 + 2500 = 3000		
Tubing String	2-3/8"	3040'			

VI. Well Test Data

35 Date New Oil	36 Gas Delivery Date 11/10/2001	37 Test Date 01/02/2002	38 Test Length 24 hrs.	39 Tbg. Pressure —	40 Csg. Pressure 61 psig
41 Choke Size 29/128	42 Oil —	43 Water 5.85 BBL	44 Gas 215 MCF	45 AOF —	46 Test Method Meter Run

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Steve Hartman*

Printed name: Steve Hartman

Title: Engineer

Date: 01/08/2002

Phone: (915) 684-4011

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

ORIGINAL SIGNED BY
PAUL F. KAUTZ
PETROLEUM ENGINEER

48 If this is a change of operator fill in the OGRID number and name of the previous operator

CC: Dallas
Tel

Previous Operator Signature

Printed Name

Date

NOV 13 2002
DOYLE HARTMAN
OIL OPERATOR
RECEIVED

NOV 15 2002

1-11-02

Pertaining to the H.M. Britt No. 12 well, received BLM condition of acceptance, corresponding to 3160-5, dated 1-8-02, which condition stated "...Production Status will be monitored/checked in 1 year. Production **must be maintained** (emphasis added)...".

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

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.

Britt No. 12

9. API Well No.

30-025-05999

10. Field and Pool, or Exploratory Area

Eumont Gas

11. County or Parish, State

Lea County, New Mexico

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)

330' FNL & 2281' FWL Sec. 7, T-20-S, R-37-E (C)

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

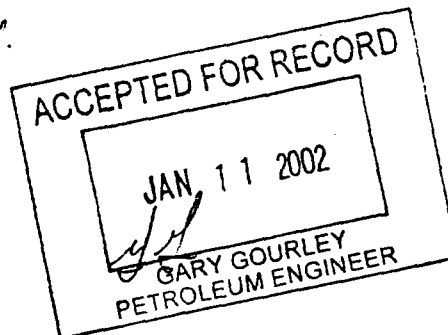
TYPE OF ACTION

- ☐
- Abandonment
-
- ☒
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other
- Return well to active producing status
-
- ☐
- 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.)

In regard to our 3160-5 filing dated 9/25/01, and the BLM's "note to operator" dated 10/3/01 (copy enclosed), we have performed the following subsequent well work, as described on pages 2 of 5, 3 of 5, 4 of 5 and 5 of 5, attached hereto.

*Production Status will be monitored/checked in 1 year.
Production must be maintained.*

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

Signed Steve HartmanTitle EngineerDate 01/08/02

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

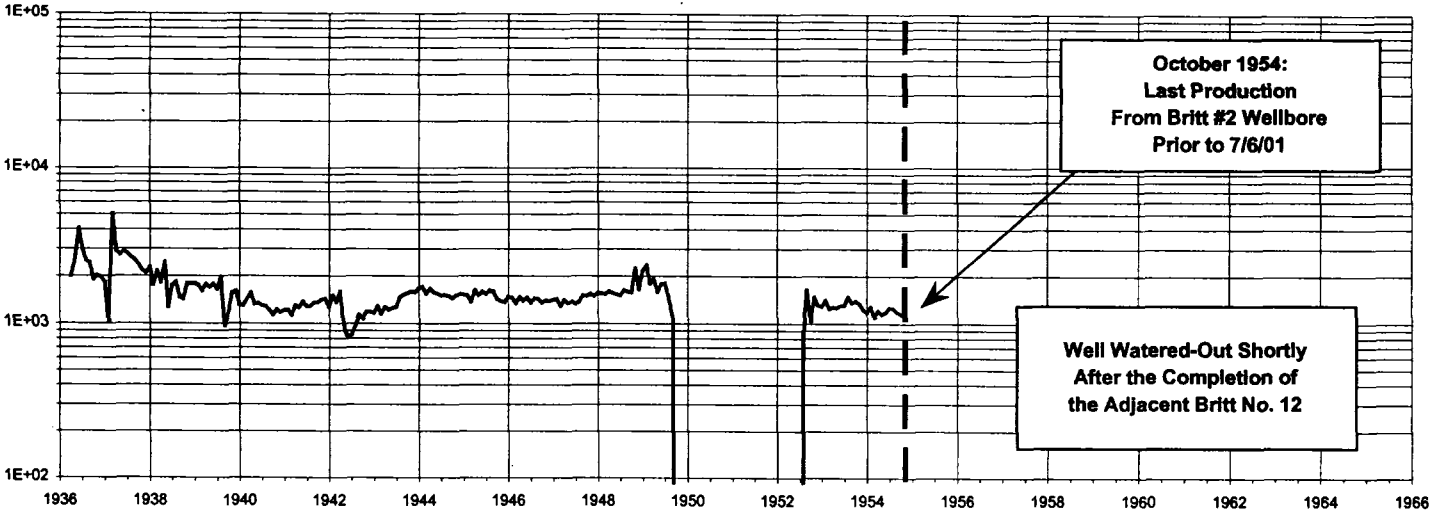
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JAN 16 2002

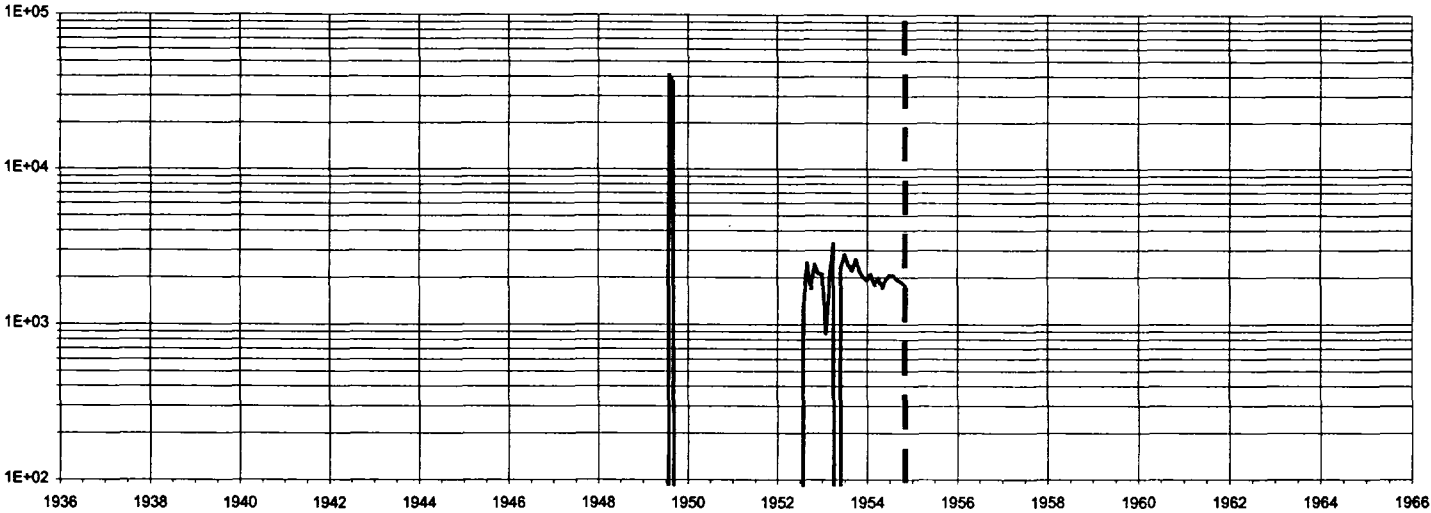
DIVIDER PAGE

Britt #2
Eunice Monument
C-7-20S-37E
Union Texas

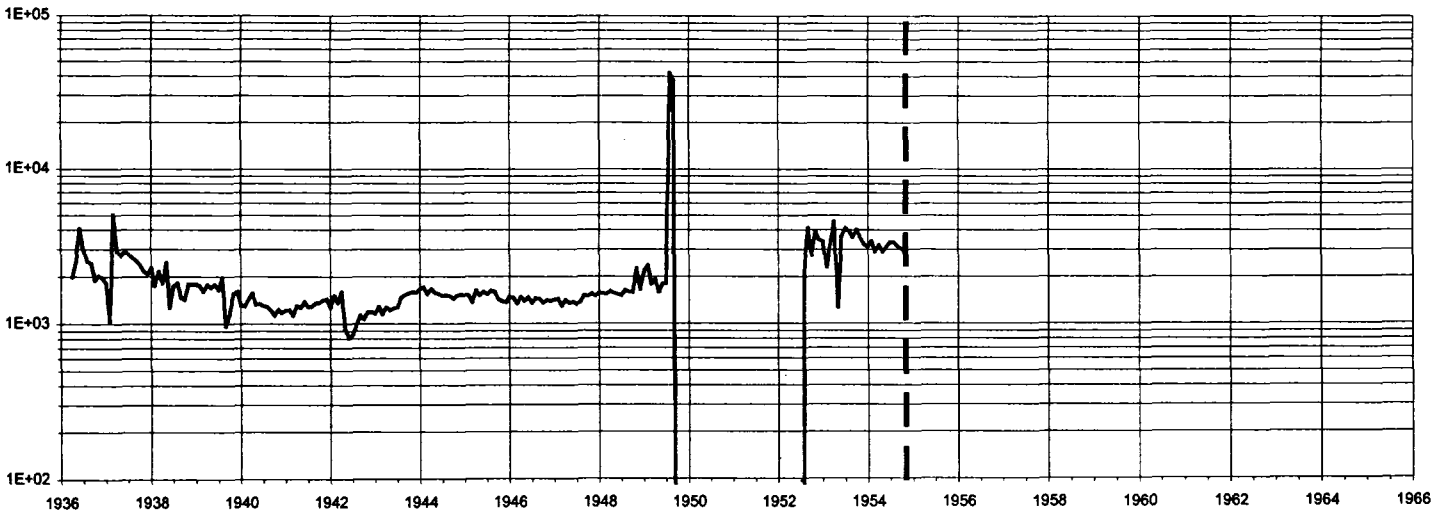
Oil Production (BPM)



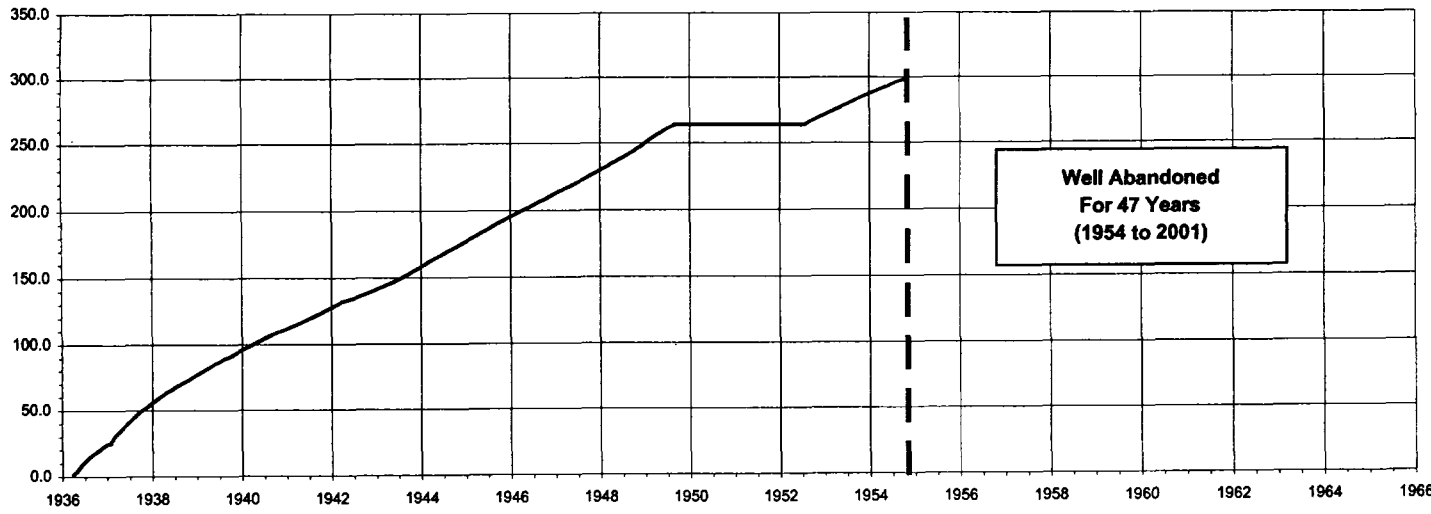
Water Production (BPM)



Total Fluid Production (BPM)



Cumulative Oil Production (MBO)



DIVIDER PAGE

NMOCD RULE 107

107.A. Any well drilled for oil or natural gas shall be equipped with such surface and intermediate casing strings and cement as may be necessary to effectively seal off and isolate all water-, oil-, and gas-bearing strata and other strata encountered in the well down to the casing point. In addition thereto, any well completed for the production of oil or natural gas shall be equipped with a string of properly cemented production casing at sufficient depth to ensure protection of oil- and gas-bearing strata encountered in the well, including the one(s) to be produced. [1-1-50...2-1-96]

107.B. Sufficient cement shall be used on surface casing to fill the annular space behind the casing to the top of the hole, provided however, that authorized field personnel of the Division may, at their discretion, allow exceptions to the foregoing requirement when known conditions in a given area render compliance impracticable. [1-1-50...2-1-96]

107.C. All cementing shall be by pump and plug method unless some other method is expressly authorized by the Division. [5-5-58...2-1-96]

107.D. All cementing shall be with conventional-type hard-setting cements to which such additives (lighteners, densifiers, extenders, accelerators, retarders, etc.) have been added to suit conditions in the well. [2-29-64...2-1-96]

107.E. Authorized field personnel of the Division may, when conditions warrant, allow exceptions to the above paragraph and permit the use of oil-base casing packing material in lieu of hard-setting cements on intermediate and production casing strings; provided however, that when such materials are used on the intermediate casing string, conventional-type hard-setting cements shall be placed throughout all oil- and gas-bearing zones and throughout at least the lowermost 300 feet of the intermediate casing string. When such materials are used on the production casing string, conventional-type hard-setting cements shall be placed throughout all oil- and gas-bearing zones and shall extend upward a minimum of 500 feet above the uppermost perforation or, in the case of an open-hole completion, 500 feet above the production casing shoe. [12-29-64...2-1-96]

107.F. All casing strings shall be tested and proved satisfactory as provided in paragraph I. below. [5-5-58...2-1-96]

107.G. After cementing, but before commencing tests required in paragraph I. below, all casing strings shall stand cemented in accordance with Option 1 or 2 below. Regardless of which option is taken, the casing shall remain stationary and under pressure for at least eight hours after the cement has been placed. Casing shall be "under pressure" if some acceptable means of holding pressure is used or if one or more float valves are employed to hold the cement in place. [5-5-58...2-1-96]

DIVIDER PAGE

DATA SHEET FOR FLOW TEST IN OIL CENTER--MOMUMENT AREA

COMPANY Union Texas Petroleum Corp.

LEASE	WELL NO.	UNIT LETTER	SECTION TOWNSHIP RANGE	DATE OF TEST	CASING STRINGS TESTED	SHUT IN PRESSURE BEFORE TEST	PRESSURE IMMEDIATELY AFTER TEST	PRESSURE 1-HR. AFTER TEST	EST. VOLUME OF FLUID DURING TEST	REMARKS (Oil-Water-gas-etc.)
Brite	13	J	7-208-37E	6-11-76	13-3/8" 8-5/8" 5-1/2"	0 30# 0	0 0 0	0 0 0	0 0 0	REMARKS (Oil-Water-gas-etc.)
Brite	1	F	7-208-37E	6-10-76	10" 8-5/8" 6-7/8"	0 60# 0	0 0 0	0 0 0	0 0 0	Bled down in 6 minutes.
Brite	2	C	7-208-37E	6-14-76	13-3/8" 9-5/8" 7"	0 520# 0	0 0 0	0 450# 0	0 0 0	Bled down in 20 seconds.
Brite	3	G	7-208-37E	6-11-76	13" 9-5/8" 7"	0 470# 0	0 0 0	0 20# 0	0 0 0	Bled down in 3 minutes. Selling Gas
Brite	4	B	7-208-37E	6-10-76	13-3/8" 9-5/8" 7"	0 50# 35#	0 0 0	0 40# 0	0 1-1/2 gals 0	Est. Flowing 1 Bbl H ₂ O/24h
Brite	5	K	7-208-37E	6-10-76	13" 9-5/8" 7"	40# 560# 570#	0 520# 520#	0 560# 560#	0 0 0	Gas well-opened valve on 9-5/8" press, on 7" dropped the same amt. possible hole in casing.

I hereby certify that the information submitted is the truth and complete to the best of my knowledge.

BY: Stanley P. Ford
COMPANY Union Texas Petroleum Corporation

DATA SHEET FOR FLOW TEST IN OIL CENTER--MONUMENT AREA

COMPANY Union Texas Petroleum Corp.

LEASE	WELL NO.	UNIT LETTER	SECTION TOWNSHIP RANGE	DATE OF TEST	CASING STRING TESTED	SHUT IN PRESSURE BEFORE TEST	PRESSURE IMMEDIATELY AFTER TEST	PRESSURE 1-HR. AFTER TEST	EST. VOLUME OF FLUID DURING TEST	REMARKS (011-Water-Gas-etc.)
Britt	11	G	7-20S-37E	6-10-76	13-3/8" 8-5/8" 5-1/2"	0 0 0	0 0 0	0 0 0	0 0 0	
Britt	12	C	7-20S-37E	6-10-76	13-3/8" 8-5/8" 5-1/2"	60# 700# 0	0 10# 0	0 30# 0	0 0 0	Flowing Gas

I hereby certify that the information submitted is the truth and complete to the best of my knowledge.

BY: *Stanley H. East*

COMPANY Union Texas Petroleum Corporation

DIVIDER PAGE

UNION TEXAS PETROLEUM
A DIVISION OF ALLIED CHEMICAL CORPORATION

INTER-OFFICE LETTER

TO: Mr. Everett Beckett

DATE: 11-9-76

FROM: Mr. Glenn Stehle *G. S.*

SUBJECT: Proposed Development
Monument Area
Lea County, New Mexico

Union Texas Petroleum operates four producing properties in the Monument Area of Lea County, New Mexico. These properties are located about ten miles southwest of Hobbs, New Mexico, and are centrally located in the Monument and Eumont multipay fields. A study of our properties in the Monument Area was recently conducted and a considerable amount of development potential was indicated. Four AFE's have recently been submitted to workover wells in this area and an additional four AFE's are attached with this letter.

Development of our properties in the Monument Area will entail recompleting existing wellbores in the Queen, Grayburg Gas Cap and Paddock. A total of eight recompletions are planned which will increase gross production an estimated 12 BO and 1525 MCFG per day. Increased gas production will sell at a rate of \$0.52 an MCF and all economics are based on this price.

QUEEN RECOMPLETIONS.

Two wells in the Monument Area, Britt "B" No. 2 and Britt "A" No. 6, are recommended for recompletion in the Queen. Increased production of 525 MCFGPD is anticipated from these recompletions.

Queen well performance in the area of our Britt leases is quite consistent. Wells in the area will currently flow at rates of around 2.0 MMCFPD and shut in at around 600 lbs. tubing pressure. Cross sections drawn through the Queen formation show it to be consistently and uniformly developed throughout the area. The two recompletions proposed for the Queen are expected to potential for around 2.0 MMCFPD. Production should be at top allowable rates which for the Britt "A" No. 6 and Britt "B" No. 2 will approximate 350 and 175 MCFGPD, respectively. The wells should produce at top allowable rates for a number of years.

A map showing the top of the Queen structure along with current production from Queen producers is attached. The production rates shown reflect allowable and do not necessarily indicate producing capability.

GRAYBURG GAS CAP RECOMPLETIONS.

Five wells in the Monument Area are recommended for recompletion in the Grayburg Gas Cap. These include the Britt No. 2, Britt No. 4, Britt No. 11, Britt "A" No. 3 and Britt "B" No. 2 (Britt B No. 2 to be a dual completion with the Queen). Total production of 1,000 MCFGPD or average production of 200 MCFGPD per well is expected from these five wells.

Grayburg Gas Cap production in the area of our Britt leases is fairly well established. Numerous Grayburg wells on or around our leases are currently producing at rates of 250 to 360 MCFGPD. Three hundred and sixty MCFGPD is top allowable for the Grayburg and most of the newer Grayburg completions are producing at this rate.

Some risk is involved with the proposed Grayburg Gas Cap recompletions. Several of the wellbores proposed for recompletion have questionable cement jobs and the casing in some of the wells is expected to be in poor condition. Mechanical problems could develop that would adversely effect the performance of the proposed recompletions. Initial production is estimated at only 200 MCFGPD per well to allow for these possible mechanical problems.

A map showing Grayburg Gas Cap completions in the vicinity of our Britt leases along with current production rates is attached.

PADDOCK RECOMPLETION.

One well in the Monument Area, Britt "A" Unit No. 7, is recommended for recompletion in the Paddock. This well is structurally high on the Paddock to several offset Paddock producers that are currently making from 10 to 16 BOPD. Britt "A" Unit No. 7 should be capable of making oil at a comparable rate and initial production is estimated at 12 BOPD.

The last well on the Britt "A" Lease to produce from the Paddock was the Britt "A" No. 3. Britt "A" No. 3 offsets the proposed Paddock Recompletion approximately 200' to the south and last tested 6 BO and 125 BW per day in October, 1969. A cross section drawn through the Paddock is attached which shows the top of the Paddock to be 23' lower in Britt "A" No. 3 than in Britt "A" Unit No. 7.

Britt "A" Unit No. 7 is property of the Britt "A" Unit and as such must be acquired by the Britt "A" lease prior to recompletion in the Paddock. A purchase price of \$8500 is proposed to acquire the well and lease inventory. Sixty-six hundred dollars of this will be reclaimed as salvageable equipment upon recompletion of the well. This reclaim is reflected in the economics of the attached AFE but is not reflected in the AFE cost estimate.

A map showing the top of the Paddock structure along with Paddock completions and current production rates is attached.

DIVIDER PAGE

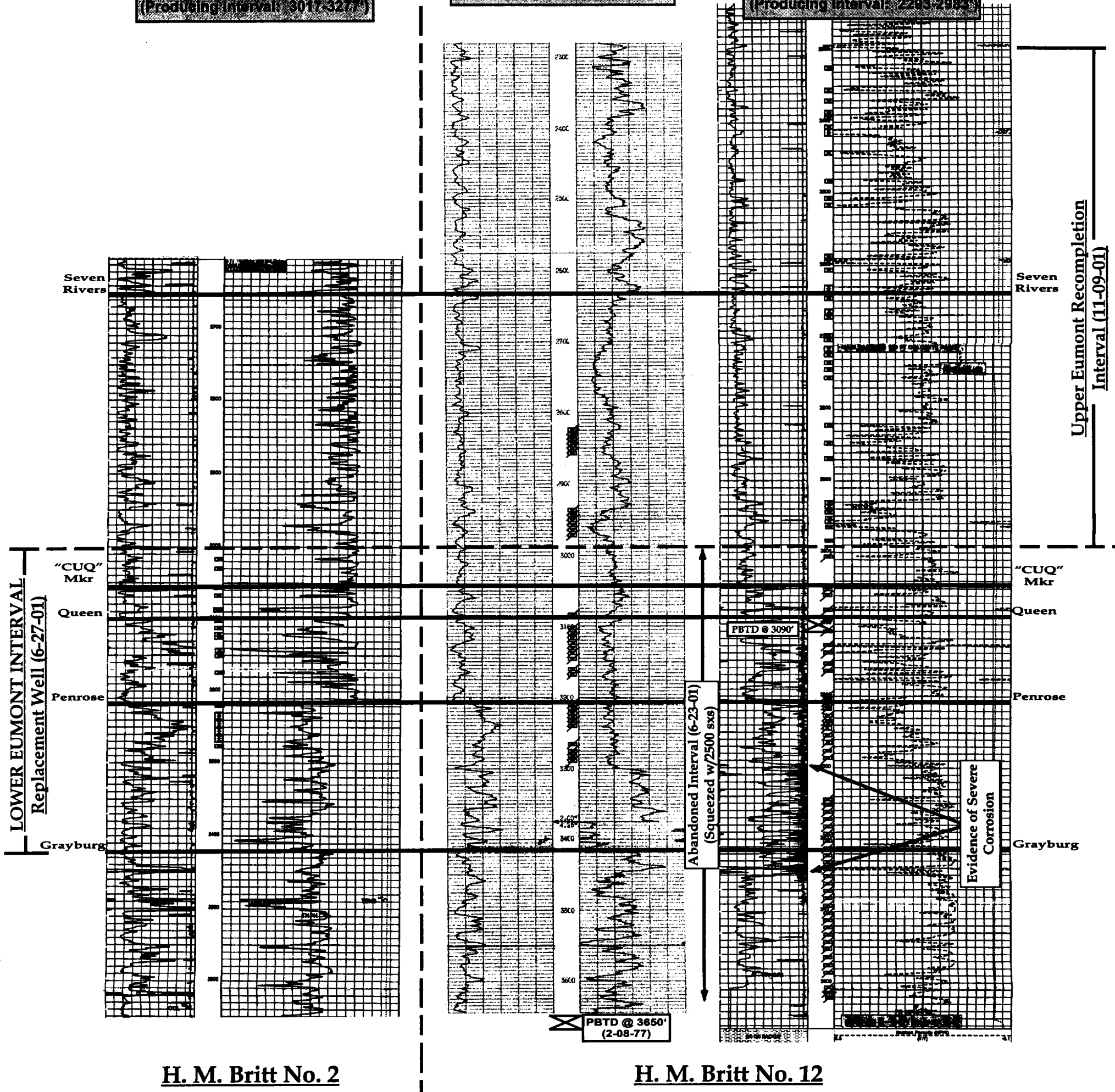
H. M. BRITT CROSS SECTION

C-07-20S-37E

H. M. BRITT NO. 2
Lower Eumont Interval
Replacement Well
6-27-01
860' FNL & 1980' FWL
(Producing Interval: 3017-3277')

H. M. BRITT NO. 12
Original Eumont
Completion Interval
Prior to 6-23-01
330' FNL & 2281' FWL

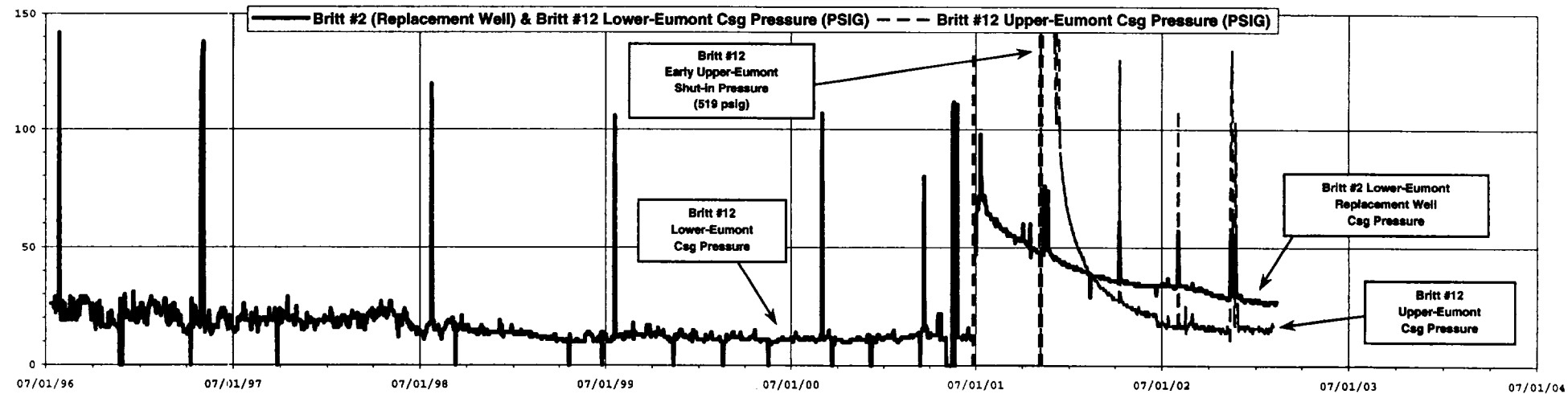
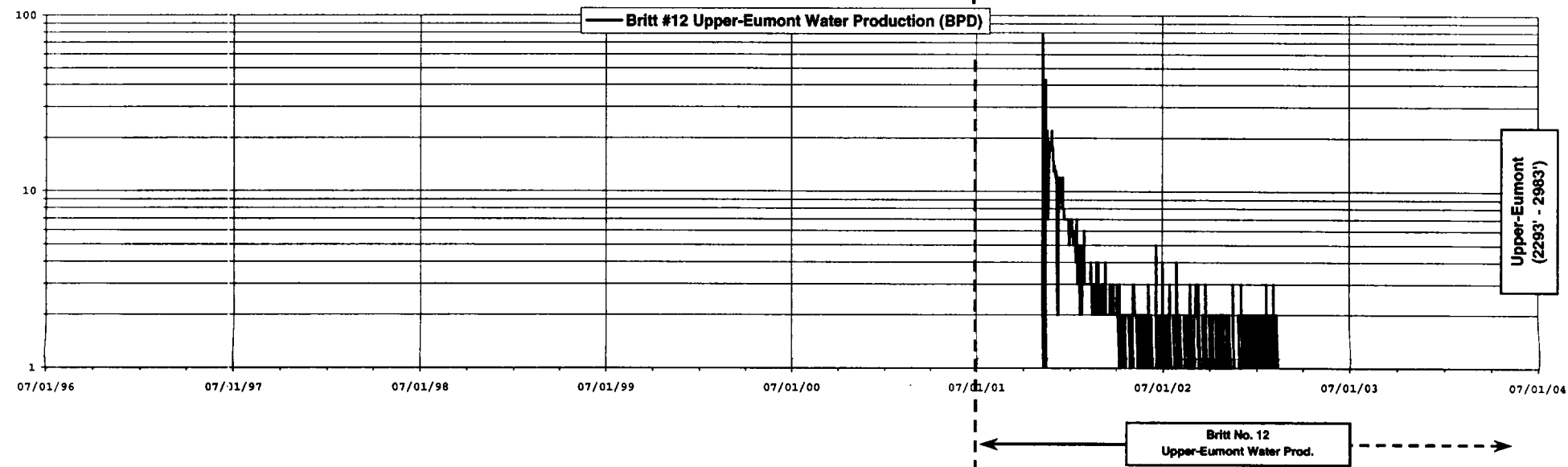
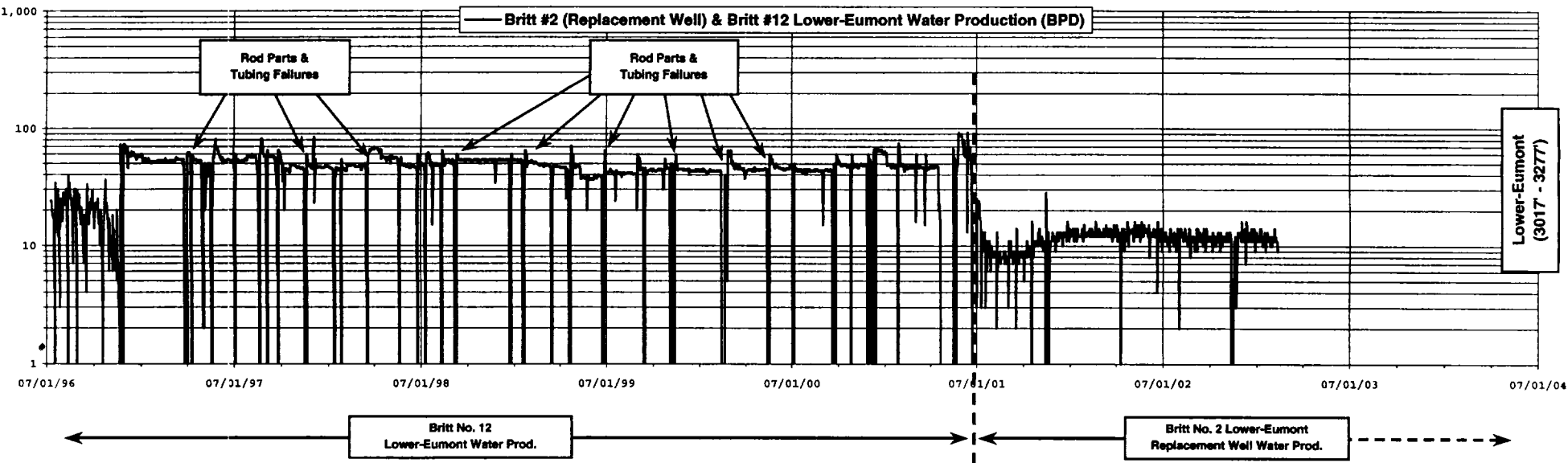
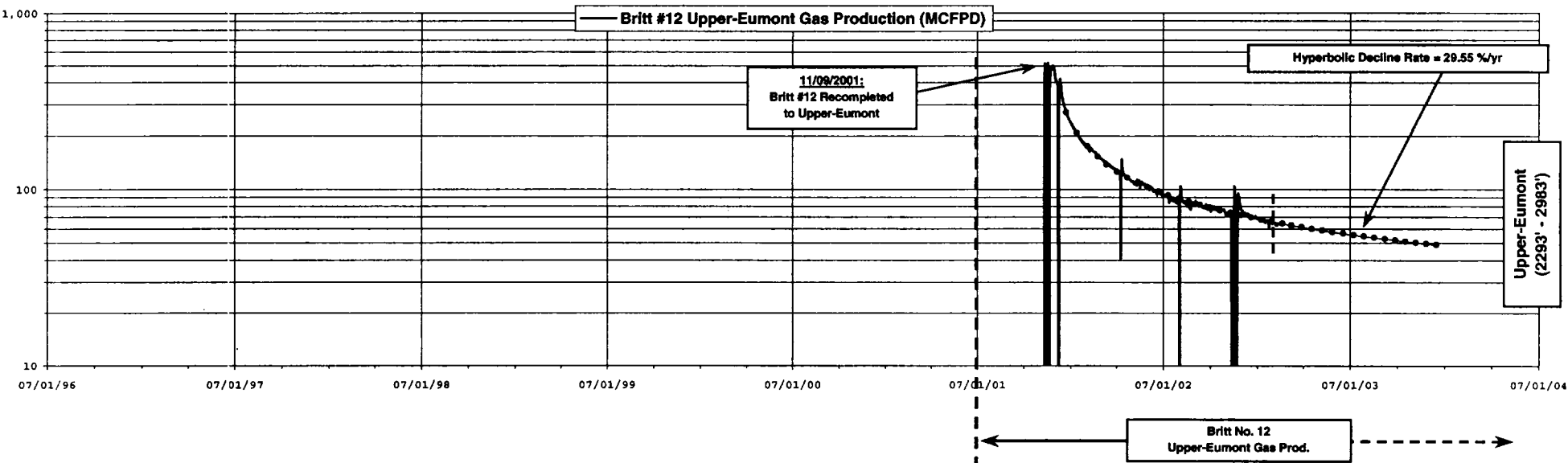
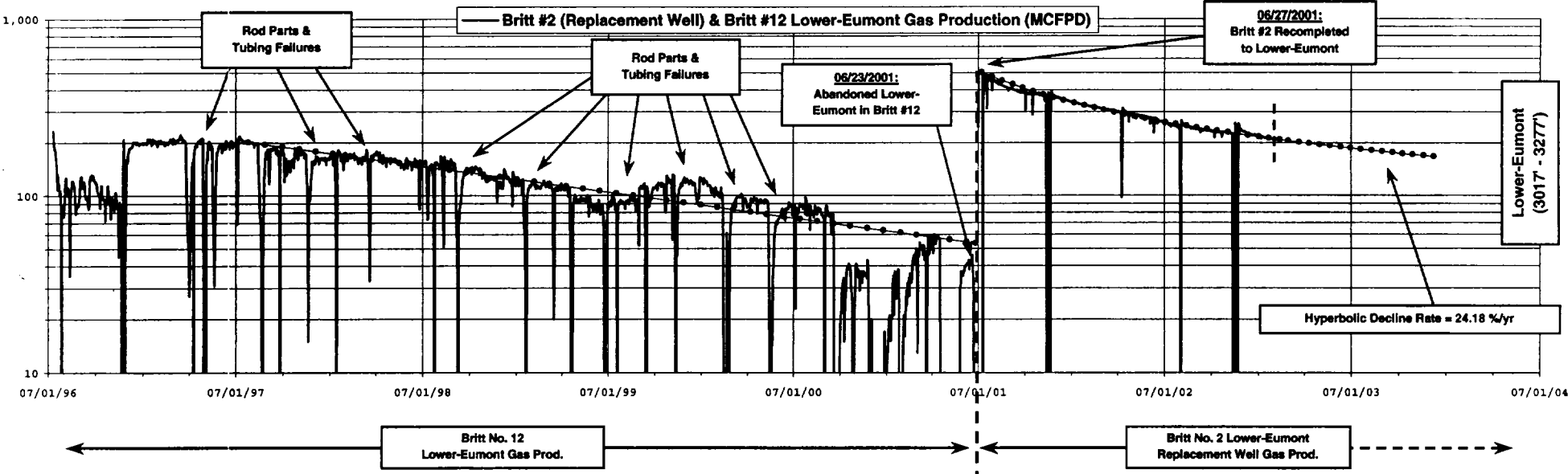
H. M. BRITT NO. 12
Upper Eumont
Recompletion
11-09-01
330' FNL & 2281' FWL
(Producing Interval: 2283-2983')



[FEDERAL LEASE NO.: LC-031621A]

DIVIDER PAGE

Daily Production Plot
Britt #2 & Britt #12
Eumont (Y-7R-Qn)
C-7-20S-37E
Doyle Hartman



02/10/03: 1.553 BCF 0.0 MBO Britt #2 (Replacement Well) & Britt #12 Lower Eumont
02/10/03: 0.060 BCF 0.0 MBO Britt #12 Upper-Eumont



File: NSL-4773(SD)

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary

March 11, 2003

Lori Wrotenbery
Director
Oil Conservation Division

Doyle Hartman, Oil Operator
P. O. Box 10426
Midland, Texas 79702

Attention: Doyle Hartman

Re: *Britt Wells No. 2, 11, and 12 located within Section 7, Township 20 South, Range 37 East, NMPM, Eumont Gas Pool, Lea County, New Mexico.*

Dear Mr. Hartman:

Reference is made to the following: (i) your initial contact with me by telefax on February 10, 2003; (ii) copies of the information on your H. M. Britt Well No. 3 sent on February 12 and 14, 2003; (iii) your letter with attachments dated February 12, 2003; and (iv) the Division's records including the file on Division Administrative Order NSL-4773 (SD). As you know Rule 3 (D) of the "*Special Rules and Regulations for the Eumont Gas Pool*", as promulgated by Division Order No. R-8170, as amended (see copy attached) prohibits the infilling of the Eumont Gas Pool on anything less than 40 acres. This rule also eliminates the chance of a 40-acre oil spacing and proration unit overlying acreage dedicated to Eumont gas production. This is a very important issue and when the Eumont Gas Pool became "un-prorated" no administrative procedure for an exception to this rule was set forth in the special pool rules; therefore, your request can only be addressed through the hearing process. From the information I have reviewed to date surrounding your situation, this request will probably be looked upon favorably.

I have caused this application to be placed on the next available examiner's hearing docket scheduled for April 10, 2003 and have it advertised in the following manner:

CASE _____: Application of Doyle Hartman, Oil Operator for simultaneous dedication, an exception to Rule 3 (D) of the Special Rules and Regulations for the Eumont Gas Pool, an unorthodox infill gas well location, and to amend Division Administrative Order NSL-4773 (SD), Lea County, New Mexico. Division Administrative Order NSL-4773 (SD) dated September 4, 2002 authorized Doyle Hartman, Oil Operator to simultaneously dedicate the following six gas wells to a non-standard 320-acre gas spacing unit (approved by Division Order No. R-5448) within the Eumont Gas Pool (76480) comprising the W/2 E/2 and E/2 W/2 of Section 7, Township 20 South, Range 37 East, which is located approximately three (3) miles south-southwest of Monument, New Mexico:

(i) H. M. Britt Well No. 1 (API No. 30-025-05972), located at a standard gas well location 1980 feet from the North and West lines (Unit F) of Section 7;

(ii) H. M. Britt Well No. 3 (API No. 30-025-05991), located at an unorthodox gas well location (approved by Division Order No. R-5448) 2310 feet from the North line and 1650 feet from the East line (Unit G) of Section 7;

(iii) H. M. Britt Well No. 4 (API No. 30-025-05992), located at a standard gas well location 660 feet from the North line and 1980 feet from the East line (Unit B) of Section 7;

Doyle Hartman, Oil Operator

March 11, 2003

Page 2

(iv) H. M. Britt Well No. 5 (API No. 30-025-05993), located at a standard gas well location 1980 feet from the South and West lines (Unit K) of Section 7;

(v) H. M. Britt Well No. 12 (API No. 30-025-05999), located at an unorthodox gas well location (approved by Division Order No. R-5448) 330 feet from the North line and 2281 feet from the West line (Unit C) of Section 7; and

(vi) Britt Well No. 14 (API No. 30-025-35152), located at an unorthodox gas well location [approved Division Administrative Order NSL-4773 (SD)] 1400 feet from the South line and 2310 feet from the East line (Unit J) of Section 7.

Applicant now seeks an exception to Rule 3 (D) of the "*Special Rules and Regulations for the Eumont Gas Pool*", as promulgated by Division Order No. R-8170, as amended, to allow its existing H. M. Britt Well No. 2 (API No. 30-025-05990), located at a standard infill gas well location 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 7 to be recompleted as a Eumont Gas Pool within the same quarter-quarter section (NE/4 NW/4) as the H. M. Britt Well No. 12. Further, applicant proposes to replace the H. M. Britt Well No. 3 within the SW/4 NE/4 (Unit G) of Section 7 with its existing H. M. Britt Well No. 11 (API No. 30-025-05998), located at an unorthodox infill gas well location 1650 feet from the North and East lines (Unit G) of Section 7. Applicant proposes to amend Division Administrative Order NSL-4773 (SD) to reflect these changes.

Please provide the required notice set forth in Rule 4 (B) (3) of the special Eumont Gas Pool rules and the applicable provisions of Division Rule 1207.A.

Should you have any questions or comments concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Sincerely,



Michael E. Stogner
Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division - Hobbs
U. S. Bureau of Land Management - Carlsbad
U. S. Bureau of Land Management - Roswell
Ms. Lori Wrotenbery, Director - NMOCD, Santa Fe
J. E. Gallegos - Gallegos Law Firm; 460 St. Michaels Dr. - Bldg. 300; Santa Fe, NM 87505
File: NSL-4773 (SD)
Florene Davidson, NMOCD -- Santa Fe
Kathy Valdes, NMOCD -- Santa Fe