

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

## SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1 Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

OCT 02 2007

2 Name of Operator  
GREAT WESTERN DRILLING COMPANY

OCD-ARTESIA

3a Address

P.O. BOX 1659 MIDLAND, TX 79702

3b Phone No (include area code)

(432)682-5241

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

2,080' FSL & 1,980' FEL  
SEC 11; T-26-S; R-27-E; UNIT J

5 Lease Serial No

NM 0476685-A

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No

8 Well Name and No

HAY HOLLOW UNIT #1

9 API Well No

30-015-21456

10 Field and Pool, or Exploratory Area

HAY HOLLOW; STRAWN (GAS)

11 County or Parish, State

EDDY

NM

## 12. CHECK APPROPRIATE BOX(ES) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

Fill casing and hole with salt gel mud consisting of 10# brine with 25 lbs/bbl salt gel.

Set CIBP at 11,550' and cap with cement.

Cut 5 1/2" casing at 5,900' and recover.

Set CIBP at 5,850' and cap with cement.

Cut 8 5/8" casing at 3,850' and recover.

Set 50 sack class C cement plug 3,900' to 3,800' - Tag

Set 60 sack class C cement plug 2,350' to 2,250'.

Set 60 sack class C cement plug 700' to 600' - Tag

Set 70 sack class C cement plug 60' to surface.

Cut off well head and erect surface marker.

ACCEPTED FOR RECORD

OCT 4 2007

Gerry Guye, Deputy Field Inspector  
NMOCD-District II ARTESIA

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

Name (Printed/Typed)

LOUIS M. CURE

Title ENGINEER

Signature

Date 09/11/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/S/ DAVID R. GLASS

Title PETROLEUM ENGINEER

Date

SEP 28 2007

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

Office

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

approx Tops

13-3/8" @  
670'

Lamar LS-2300'  
Del Sand 2,336'

Cherry Canyon  
3,204'

Brush Canyon  
4,274'

8 5/8" @  
6,006'

Bone Springs LM  
5,978'

1st BS 6,885'

2nd BS 7,550'

3rd BS-8,710'

Wolfcamp  
9,056'

Vann gun fish  
11,755 to  
11,847'

Strawn LS  
11,530'  
Atoka

11,700' CIBP 11,900'  
Cmt cap  
BP= 11,847'  
CIBP 12,200'

Morrow LS  
12,286'

Barnett Sh  
12,868'

TD @  
12,966'

TOC 3,890' by tmp

5 1/2" ECP-5,924'

TOC 6,400' by tmp

2 3/8" EUE, 4 7#, N-80 Tbg

stage cement tool at 9,117'

5 1/2" ECP-9,368'

Packer fluid 11 4 ppg mud

Bkr SS -11,509'  
on-off w/ 1.81" - 11,549'  
Pkr 11,556' Lokset  
bltm tbg-11,572'

11,611-32'

11,635-42'

11 971-12,022'

12,290-94'

12,439-81'

12,678' = 5 1/2"

## Hay Hollow Unit # 1

GL: 3,214'  
KB: 3,230' KB-GL = 16'  
TD: 12,966  
PBD: 11,847'

Status: shut in  
Zone: Strawn  
Perfs: 11,611-11,642'

Surface: 2,080 FSL  
1,980 FEL  
Unit J  
NW SE

API: 30-015-21456  
Lse: Hay Hollow Unit  
Field: Hay Hollow (Strawn)

Location Sec 11, T-26S R27E  
County: Eddy  
State: New Mexico

Casing	Wt	Set	Cmt	Hole	TOC	Method
20"	53#	58'	redimix	conductor		
13 3/8"	48#	670'	650	17 1/2"	surf	
8 5/8"	32#	6,006'	510	11"	3,890'	temp
5 1/2"	17#	12,678'	710	7 7/8"	DV	circ
	DV	9,117'	455		6,400'	temp

IC 4/75 Note 11 611 Strawn blowout while drig-6 days to kill 9 spg to  
10 3 ppg LC & kick -drill ahead

Morrow Perf 12,290-94; 12,439-45'; & 12,468-81' thru Tbg hyper  
Acid-3000 gal 7 1/2% MS-w/ N2  
Jet w/ Coil Tbg-flow 40 MCFD  
set CIBP w/ cmt cap 350'

Atoka Van Gun perf 11,971-76'; 11,985-95', 12,014-22'  
Swab-flow 50 mcf max  
CIBP w/ cmt cap 350' -pulled Van Gun

Strawn Van Gun 11,611-32' & 11,635-42' (2 spf- 56 holes)  
flow natural  
test (F) 6,413 MCFD +0 + 0 - 3384# FTP/ SITP= 5,232#  
Bomb- 6,390# BHP initial - 194 deg F

28-Apr-76 Stim Job: Acid w/ 15,000 gals Pad A w/ 1 block

9-6-01 SITP = 285#  
last prod 15 MCFD - 1/2002 (cum 538 MMCF)

1-May-03 SITP = 325 psig

15-Feb-05 SITP + 476 psia and SIBHP = 705 psia

Q- Vann gun may still be attached to packer. 11,590' = depth of bomb

Road Directions. 4 mile North of NM state line on Hwy US 285 (Pecos-Carlsbad)  
go 6 miles west on caliche - then South & SE 3/4 mile to well.

**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220-6292**  
**(505) 234-5972**

**Permanent Abandonment of Federal Wells**  
**Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon. **If you are unable to plug the well by the 90<sup>th</sup> day provide the appropriate BLM office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when the appropriate BLM office can expect the well to be plugged. Failure to do so will result in enforcement action.**

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call (505) 627-0272, in Eddy County call (505) 361-2822; for wells in Lea County call (505) 393-3612.

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9090 feet; a 3M system for a well not deeper than 13636 feet; and a 5M system for a well not deeper than 22727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

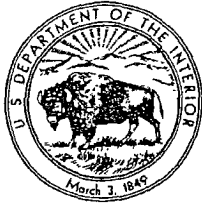
5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 50 feet of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either class "C" for up to 7500 feet of depth, mixed at 14.8 lbs./gal with 6.3 gallons of fresh water per sack or class "H" for deeper than 7500 feet plugs, mixed at 16.4 lbs./gal with 4.3 gallons of fresh water per sack.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10 feet in length, 4 feet above the ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

Following the submittal and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval shall be developed and furnished to you.



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, NM 88220

**Interim Reclamation Procedures for Permanently Abandoned Federal Wells**

1. After Subsequent Report of Abandonment, Form 3160-5, is filed and approved by the BLM the surface protection specialist (SPS) will conduct a surface inspection of the abandonment. The SPS will establish the reclamation requirements the operator will need to complete. **DO NOT START RECLAMATION UNTIL THE SPS HAS INSPECTED THE LOCATION.**

2. The reclamation requirements will be given to an environmental protection specialist (EPS). The EPS will issue the operator a Notice of Written Order outlining the reclamation requirements. **DO NOT START RECLAMATION UNTIL A NOTICE OF WRITTEN ORDER FOR RECLAMATION HAS BEEN RECEIVED.** The EPS will be responsible for all further abandonment work and inspections.

3. **Notification: CONTACT THE EPS 3 DAYS PRIOR TO RECLAMATION WORK.** This notification gives the EPS an opportunity to discuss by phone or on location the reclamation requirements, any special concerns and the timeframes. It also allows the EPS an opportunity to witness various aspects of the reclamation work to determine if an adequate seedbed has been prepared and all reclamation requirements have been completed. **CONTACT THE EPS AT LEAST 3 DAYS PRIOR TO SEEDING.** This allows the EPS to witness the seeding operation to make sure the location is seeded properly and with the appropriate seed mixture. **DO NOT START RECLAMATION UNTIL THE EPS HAS BEEN NOTIFIED.**

4. After reclamation work has been completed, submit the **I & E copy of the Notice of Written Order** to the BLM. It will need to be signed by a company representative and dated. Also submit one original and five copies of the **Final Abandonment Notice, Form 3160-5.** The report should state that all reclamation work has been completed, and the location is ready for a final abandonment inspection.

5. The BLM will continue to monitor the location to ensure the location vegetates successfully, and salts from the reserve pit do not leach to the surface. The location will be monitored until such time as vegetation (20%) is established evenly across the location (including the reserve pit and access road). Once EPS determines that vegetation (20%) is evenly spread across the location, final abandonment will be authorized.

If there are any questions please feel free to contact any of the following:

Jim Amos  
Supervisory Environmental Protection Specialist  
(505) 234-5909

Barry Hunt  
Surface Protection Specialist  
(505) 234-5965

Todd Suter  
Surface Protection Specialist  
(505) 234-5987

Trishia Bad Bear  
Natural Resource Specialist – Lea County  
(505) 393-3612

Cody Layton  
Natural Resource Specialist  
(505) 234-5959

Paul Evans  
Environmental Protection Specialist  
(505) 234-5977

Terry Gregston  
Environmental Protection Specialist  
(505) 234-5958