

N.M. Oil Cons. Division
1625 N. French Dr.
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, (432) 684-4011

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

2180' FSL & 1980' FEL (Unit J),
Section 20, T-24-S, R-37-E, N.M.P.M

5. Lease Designation and Serial No.

LC-032326A NM-7486

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Jack A-20 No. 11

9. API Well No.

30-025-30703

10. Field and Pool, or Exploratory Area

Jalmat (T-Y-7R)

11. County or Parish, State

Lea, 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

☒ Cleaned out Wellbore

☒ Performed Integrity Test

☒ Other Set Retainer, Added Jalmat Perfs
& Acidized

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☒ Water Shut-Off

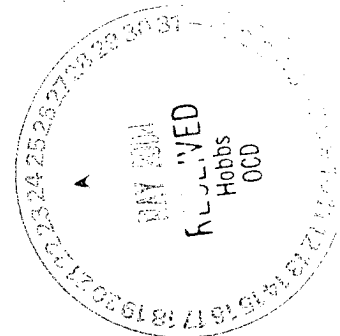
☐ Conversion to Injection

☐ 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 5 thru 5 of 5 attached hereto,
and made a part hereof.



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

Signed Steve Hartman

Title Engineer

Date 03/09/2004

(This space for Federal or State office use)

Approved by DAVID R. GLASS

Title

Date

Conditions of approval, if any:

MAY 19 2004

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.

PETROLEUM ENGINEER

*See Instruction on Reverse Side

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BLM Form 3160-5 dated March 9, 2004
Doyle Hartman
Jack "A-20" No. 11
J-20-24S-37E
API No.: 30-025-30703

Details of Completed Operations
(10-17-00 to 10-22-00)

Moved in and rigged up well service unit, on 10-17-00.

Pulled rods and pump. Pulled 2-3/8" O.D. tubing. Laid down 3 bad joints of 2-3/8" O.D. tubing.

Ran 73.80' bottom-hole cleanout assembly, consisting of 6-1/8" bit and (2) 4-3/4" O.D. drill collars. Tagged fill at 3271' RKB.

Raised bottom-hole cleanout assembly to 2974'. Hooked up air units. Commenced cleanout process. Cleaned out wellbore to original PBTD of 3449'.

Pulled and laid down bottom-hole cleanout assembly.

Using a 7" Model "C" packer, or a combination of a 7" Model "C" packer and a 7" Model "C" RBP, performed the following casing integrity tests, between 3185' and 3449' (PBTD), to determine if water production could be coming from below Yates completion interval (2943'-3178').

TEST POINTS

Date	7" Model "C" Packer Depth (ft)	7" Model "C" RBP Depth (ft)	Pump Rate (BPM)	Wellhead Pressure (psig)	Remarks
10-20-00	3196	None	1.5	125	
10-20-00	3202	None	1.5	125	
10-20-00	3292	None	1.5	125	Apparent bad packer seat.
10-20-00	3390	None	0	1300	Held okay.
10-20-00	3357	None	0	1450	Held okay.
10-20-00	3325	None	0	1450	Held okay.
10-20-00	3260	3292	0	1300	Held okay.
10-20-00	3196	3292	1.5	125	

Date	7" Model "C" Packer Depth (ft)	7" Model "C" RBP Depth (ft)	Pump Rate (BPM)	Wellhead Pressure (psig)	Remarks
10-20-00	3227	3292	1.5	125	
10-20-00	3232	3292	1.5	125	
10-20-00	3196	3232	0	1500	Held okay.
10-20-00	3196	3228	1.5	125	Found RBP down hole.
10-20-00	3224	3228	0	1500	Held okay.
10-20-00	3185	3228	0	1500	Held okay.
10-20-00	3262	3328	0	1500	Held okay.
10-20-00	3224	3328	1.5	150	
10-20-00	3240	3328	1.5	150	
10-20-00	3224	3240	0	1500	Held okay.
10-20-00	3202	None	1.5	125	
10-20-00	3325	None	0	1450	
10-20-00	3224	3228	0	1500	
10-20-00	3185	3228	0	1500	
10-20-00	3262	3328	0	1500	
10-20-00	3240	3328	1.5	125	
10-20-00	3224	3240	0	1500	Bad casing between 3240' and 3262'.

Rigged up Capitan Corporation. Set 7" EZ-Drill Type SV retainer at 3239.5'.

Perforated Jalmat with 10 additional holes, with one shot each at:

2791	2826
2797	2831
2804	2833
2809	2950
2824	3093

Ran Baker 7" Model "C" RBP and 7" Model "C" packer. Set 7" Model "C" RBP at 3115'. Spotted acid across and above perfs, from 2791' to 3093', by pumping 800 gal of 15% NEFE acid followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize. Raised and set packer at 2900'.

Acidized perfs, from 2943' to 3093' (17 holes), with an additional 2700 gal of 15% NEFE acid, and 34 ball sealers, at an average treating rate of 5.77 BPM, and average treating pressure of 1334 psi.

Flushed acid with 18.5 bbls of 2% KCl water. $TP_{mx} = 3975$ psi (at ballout). ISIP = 0 psi. Balled out 5 times.

Raised and set 7" Model "C" RBP at 2860'. Spotted acid across newly perforated Jalmat interval, from 2791' to 2833', by pumping 100 gal of 15% NEFE acid followed by 0.5 bbl of 2% KCl water. Let acid fall and equalize. Set 7" Model "C" packer at 2750' RKB.

Acidized new Jalmat perfs, from 2793' to 2833' (8 holes), with an additional 1900 gal (total of 2000 gal) of 15% NEFE acid and 16 ball sealers, at an average treating rate of 2.77 BPM, and average treating pressure of 1803 psi.

Flushed acid with 14 bbls of 2% KCl water. $TR_{mx} = 5.21$ BPM. $TP_{mx} = 3522$ psi (at ballout).

ISIP = 1817 psi
5-min SIP = 1709 psi
10-min SIP = 1699 psi
15-min SIP = 1692 psi.

Backflowed well to blowdown tank. Pumped 2 bbls of 2% KCl water down tubing to displace any live acid down hole. Released 7" Model "C" packer. Pulled 7" Model "C" packer and 7" Model "C" RBP. Laid down 7" Model "C" RBP.

Ran and set 7" Model "C" packer at 3195'. Pressure tested 7" O.D. casing, from 3195' to top of 7" EZ-Drill retainer (3239'), to 1200 psi. Pressure held okay. Pulled and laid down 7" Model "C" packer.

Ran 2-3/8" O.D. tubing. Landed bottom of new 2-3/8" O.D. tubing string at 3230' RKB (99 jts @ 32.43 ft/jt + 2-3/8" x 4' tbg sub + 1.1' S.M. - 2' AGL + 16' KBC = 3229.67').

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Ran 2" x 1-1/4" x 12' RWBC insert pump and 3/4" API Class "KD" rod string, consisting of (128) 3/4" x 25' API Class "KD" rods + (3) 3/4" x 4' rod subs + (1) 3/4" x 2' rod sub. Started pumping well and recovering load, at 11:30 A.M., CDT, 10-22-00.