

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

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)
330' FNL & 1725' FEL (Unit B),
Section 30, T-24-S, R-37-E, N.M.P.M

5. Lease Designation and Serial No.
NM 0321613

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Jack B-30 No. 2

9. API Well No.
30-025-25871

10. Field and Pool, or Exploratory Area
Jalmat / Langlie Mattix

11. County or Parish, State
Lea, 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 type="checkbox"/> Casing Repair	<input checked="" type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Altering Casing Set 4 1/2" O. D., FJL	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Re-perforate and stimulate well.	<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.)*

For details of completed operations, please refer to pages 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 DAVID R. GLASS
(This space for Federal or State Office use)

Title Engineer

Date 04/05/04

Approved by DAVID R. GLASS
Conditions of Approval, if any
APR 7 2004

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.

PETROLEUM ENGINEER

*See Instruction on Reverse Side

GWW

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BLM Form 3160-5 dated April 5, 2004
Doyle Hartman
Jack "B-30" No. 2
B-30-24S-37E
API No. 30-025-25871

Details of Completed Operations

Moved in well service unit, on 7-16-03. Pulled rods and tubing.

Ran 356.29' bottom-hole drilling assembly, consisting of 4 7/8" bit and (12) 3 1/2" O.D. drill collars, to 3650'. Hooked up air and foam unit. Drilled 4 7/8" hole to 3686'. Pulled bottom-hole drilling assembly.

Ran 356.29' bottom-hole drilling assembly equipped with 4 3/4" button bit. Drilled 4 3/4" hole to 3715'. Circulated hole clean and dry. Pulled bottom-hole drilling assembly.

Ran 4 3/4" O.D. string-mill assembly consisting of (3) 4 3/4" string mills and (12) 3 1/2" O.D. drill collars. Rotated and reciprocated string-mill assembly, from 3650' to 3715'. Circulated hole clean. Pulled and laid down string-mill assembly.

Rigged up wireline truck. Perforated with (15) 0.45" x 23" squeeze holes, with one shot each at:

3157'	3232'	3411'
3164'	3379'	3416'
3170'	3382'	3428'
3223'	3386'	3431'
3228'	3388'	3434'

Ran and landed 21-jt (865'), 4 1/2" O.D., 11.6 lb/ft, flush-joint liner, from 2850' to 3715'. Pumped 32 bbls of water to clear liner. Pulled 2 7/8" O.D. work string.

Ran and set 5 1/2" Model "C" packer at 2699'. Loaded and pressured 5 1/2" O.D. casing. Squeeze cemented 4 1/2" O.D. liner into place, with 2100 cu.ft. of cement slurry, consisting of 500 sx of API Class "C" cement containing 2.5% CaCl₂ followed by 1000 sx of API Class "C" cement containing 2.5% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele, followed by 100 sx of API Class "C" cement containing 1.5% CaCl₂, 3 lb/sx Gilsonite, and 0.25 lb/sx Flocele. Pumped cement at an average pump rate of 11.0 BPM and average pump pressure

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of 3950 psi. Displaced cement with 17 bbls of water, at 2 BPM, at 2562 psi. ISIP = 2036 psi. Staged to a final squeeze pressure of 3050 psi.

Ran 366.09' bottom-hole drilling assembly consisting of 4 7/8" bit, 5 1/2" casing scraper, and (12) 3 1/2" O.D. drill collars. Drilled cement from 2720' to 2850'. Circulated hole clean. Pulled and laid down 2 7/8" O.D. work string and bottom-hole drilling assembly.

Ran small-bore bottom-hole drilling assembly consisting of 3 7/8" blade bit and (6) 3 1/8" O.D. drill collars. Drilled cement from 2850' to 3700'. Circulated hole clean. Pressure tested wellbore, from surface to 3700', to 3000 psi. Pressure held okay.

Pulled and laid down small-bore bottom-hole assembly.

Ran 3 7/8" bit, 4 1/2" casing scraper, and (6) 3 1/8" O.D. drill collars. Rotated and reciprocated casing scraper from 2850' to 3700'. Pulled and laid down bottom-hole assembly.

Rigged up Schlumberger. Logged well with DSI-CNL-GR-CCL log.

Ran 2 3/8" O.D. tubing to 3535'. Hooked up air unit. Unloaded water from wellbore, to blowdown tank. Pulled 2 3/8" O.D. tubing.

Selectively reperforated with (24) 0.38" x 17" holes, with one shot each at:

2952'	2975'	3381'	3415'	3508'
2957'	3223'	3384'	3428'	3526'
2961'	3227'	3387'	3431'	3544'
2966'	3230'	3409'	3434'	3547'
2970'	3349'	3412'	3506'	

Ran 4 1/2" Model "C" RBP and 4 1/2" Model "C" packer. Set 4 1/2" Model "C" RBP at 3568', with 4 1/2" Model "C" packer hanging at 3560'. Spotted acid by pumping 175 gal of 15% MCA acid followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 4 1/2" Model "C" packer at 3460'. Acidized perfs, from 3506' to 3547' (5

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holes), with an additional 925 gal of 15% MCA acid and 7 ball sealers, at an average treating rate of 3.6 BPM, and average treating pressure of 2900 psi. Flushed with 14.6 bbls of 2% KCl water.

ISIP	=	505
1-min SIP	=	272
2-min SIP	=	96
3-min SIP	=	0

Raised and set 4 1/2" Model "C" RBP at 3464', with 4 1/2" Model "C" packer hanging at 3460'. Spotted acid by pumping 300 gal of 15% MCA acid, followed by 1.0 bbl of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 4 1/2" Model "C" packer at 3163'. Acidized perfs, from 3223' to 3434' (13 holes), with an additional 2525 gal of 15% MCA acid and 18 ball sealers, at an average treating rate of 4.4 BPM, and average treating pressure of 1900 psi. Flushed acid with 16.4 bbls of 2% KCl water. Balled off on 16th and 17th balls. ISIP = 358 psi. 45-sec SIP = 0 psi.

Raised and set 4 1/2" Model "C" RBP at 3015', with 4 1/2" Model "C" packer hanging at 3010'. Spotted acid by pumping 125 gal of 15% MCA acid, followed by 1.0 bbl of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 4 1/2" Model "C" packer at 2896'. Acidized perfs, 2952' to 2975' (6 holes), with an additional 1150 gal of 15% MCA acid and 9 ball sealers, at an average treating rate of 3.4 BPM and average treating pressure of 1200 psi. Flushed with 12.4 bbls of 2% KCl water. Balled off on 9th ball sealer. ISIP = 170 psi. 30-sec SIP = 0 psi.

Pulled 4 1/2" Model "C" RBP and 4 1/2" Model "C" packer.

Ran and landed 2 3/8" O.D. tubing at 3635' RKB (109 jts @ 33.1'/jt + 1.1'SN + 18'MA - 3'AGL + 11'KBC = 3635'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" API Class "KD" rod string. Started pumping well and cleaning up load, at 3:30 P.M., CDT, 7-23-03.

Moved in well service unit on 8-4-03. Pulled rods and pump. Pulled 2 3/8" O.D. tubing.

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Selectively perforated with five (5) additional 0.38" x 17" holes, with one shot each at:

2964'	3386'
2974'	3433'
3225'	

Ran and landed 2 3/8" O.D. tubing at 2843' RKB (85 jts @ 33.1'/jt + 1.1'SN + 18'MA + 2'CBJ - 3'AGL + 11'KBC = 2842.6').

Installed 3" heavy-duty frac valves. Shut down for night. 17.5-hr SICP = 51 psig.

Hooked up Halliburton. Performed CO₂ foam frac utilizing 185,435 gal of gelled water and CO₂ and 400,000 lbs of frac sand (10% 20/40, 15% 10/20, 75% 8/16), at an average treating rate of 37.2 BPM and average treating pressure of 2677 psi.

Left well shut in for 1.5 hours. Opened well to blowdown tank. Cleaned up well to blowdown tank, for 18.75 hours.

Killed well. Removed 3" heavy-duty frac valves. Installed 3" production valves. Removed carbide blast joint.

Lowered 2 3/8" O.D. tubing. Tagged top of frac sand at 3548'. Hooked up air unit. Cleaned out frac sand, to 3700'.

Raised bottom of 2 3/8" O.D. tubing to 2940'. Flowed well overnight (up backside) to blowdown tank. Lowered 2 3/8" O.D. tubing. Found 3' of fill.

Circulated hole clean and dry. Raised and landed bottom of 2 3/8" O.D. tubing at 3635' RKB (109 jts @ 33.1'/jt + 1.1'SN + 18'MA - 3'AGL + 11'KBC = 3635'). Ran 2" x 1 1/4" x 12' RHAC insert pump and 3/4" API Class "KD" rod string. Started pumping well and recovering load, at 7:15 P.M., CDT, 8-7-03.