Form 3160-5
(June 1990)

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

5. Lease Designation and Serial No.: LC-030556 (B)

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.: Stevens "A-35" Com No. 4 *

2. Name of Operator: Doyle Hartman

9. API Well No.: 30-025-26267

3. Address and Telephone No.: 500 N. Main St., Midland, TX 79701, (915) 684-4011

10. Field and Pool, or Exploratory Area: Jalmat (T-Y-7R)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
990' FSL & 660' FEL (Unit P),
Section 35, T-23-S, R-36-E, NMPM

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	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[X] Water Shut-Off
	[X] Altering Casing (Install 4 1/2" O.D. FJL)	[ ] Conversion to Injection
	[X] Other Recomplete to Jalmat Gas	[ ] 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 pertinet 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 markders and zones pertinent to this work.)*

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

ACCEPTED FOR RECORD
JUL 29 2003
GARY GOURLEY
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Engineer Date 07/07/2003

(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

* Formerly Stevens "B-35" No. 1

ZA Langlie Mattix SR-Q-G

Details of Completed Operations

Moved in and rigged up well service unit, on 6-2-03. Pulled rods and 2 3/8" O.D. production tubing.

Ran 2 7/8" O.D., 6.5 lb/ft, N-80 work string and 178.40' bottom-hole drilling assembly consisting of 4 3/4" mill-tooth bit and (6) 3 1/2" O.D. drill collars. Hooked up high-volume air-foam circulating unit. Cleaned out casing. Deepened hole to 3923'. Circulated hole clean.

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

Rigged up welder. Removed original flanged tubinghead. Installed 5 1/2" slip x thread collar. Installed B & M Oil Tool 5 1/2" x 3 1/2" x 2 3/8" Type MR 3000-psi tubinghead.

Ran 2 7/8" O.D. work string equipped with retrieving head. Latched onto 5 1/2" Model "C" RBP, set at 1500', while logging well. Pulled and laid down 5 1/2" Model "C" RBP.

Ran 178.40' bottom-hole drilling assembly consisting of 4 3/4" button bit and (6) 3 ½" O.D. drill collars. Deepened hole to 3942'. Circulated hole clean. Pulled and laid down bottom-hole drilling assembly.

Ran 201.25' string-mill assembly consisting of 4 3/4" mill-tooth bit, (2) 4 3/4" string mills, (1) 3 1/2" O.D. x 13' drill collar, (1) 4 3/4" string mill, (6) 3 1/2" O.D. drill collars. Rotated string-mill assembly from 3900' to 3942'. Encountered no formation fill. Pulled and laid down string-mill assembly.

Rigged up Capitan Services wireline truck. Ran 4" O.D. select-fire casing gun. Perforated 5 1/2" O.D. casing, with (21) 0.44" x 23" squeeze holes, with one shot each at:

3676	3766	3808	3849	3875
3678	3773	3826	3851	
3700	3778	3825	3853	
3711	3802	3828	3869	
3763	3805	3830	3873	

Ran 18 jt (681.31'), 4 1/2" O.D., 11.6 lb/ft flush-joint liner. Landed bottom of liner at 3942', with top of liner at 3260'. Pulled 2 7/8" O.D. work string. Laid down liner setting tool.

Ran 2 7/8" O.D. work string and 5 1/2" Model "C" full-bore packer. Squeeze cemented 4 1/2" O.D.

flush-joint liner into place, at an average cementing rate of 11 BPM and average pump pressure of 3600 psi, utilizing 368 bbls of cement slurry, consisting of 500 sx of API Class "C" cement containing 2.5% $CaCl_2$, followed by 1000 sx of API Class "C" cement containing 2.5" $CaCl_2$, 3 lb/sx Gilsonite, 0.25 lb/sx Flocele, followed by 100 sx of API Class "C" cement containing 1.5% $CaCl_2$, 3 lb/sx Gilsonite, 0.25 lb/sx Flocele.

Displaced cement with 19 bbls of water, at 1.0 BPM, at 1854 psi. Shut down for 20 minutes. Pumped an additional 0.25 bbls of water. Pressure increased from 1345 psi to 4000 psi. Shut down for 5 minutes. Released pressure. Observed no flowback.

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

Laid down original rod string and 2 3/8" O.D. production tubing.

Ran 2 7/8" O.D. work string and 360.14' bottom-hole drilling assembly consisting of 4 3/4" bit, 5 1/2" casing scraper, and (12) 3 1/2" O.D. drill collars. Tagged top of cement at 3140'. Hooked up reverse drilling equipment. Drilled cement to top of 4 1/2" O.D. liner, at 3260'. Circulated hole clean. Pulled and laid down 2 7/8" O.D. work string and 360.14' bottom-hole drilling assembly.

Ran new 2 3/8" O.D., 4.7 lb/ft, J-55, EUE tubing and 182.68' bottom-hole drilling assembly consisting of 3 7/8" blade bit and (6) 3 1/8" O.D. drill collars. Drilled cement inside of 4 1/2" O.D. liner, from 3260' to 3933'.

Circulated hole clean. Pulled and laid down 182.68' bottom-hole drilling assembly.

Ran 3 7/8" bit and 4 1/2" casing scraper. Scraped 4 1/2" O.D. liner, from 3260' to 3933'. Pressure tested wellbore, from surface to 3933', to 3000 psi, for 20 minutes. Pressure held okay. Pulled and laid down 3 7/8" bit and 4 1/2" casing scraper.

Rigged up Schlumberger. Logged 4 1/2" O.D. flush-joint liner, with VDCBL-GR-CCL log. Found good bonding, from top of 4 1/2" O.D. flush-joint liner to 3933'.

Ran 2 3/8" O.D. open-ended tubing to 3923'. Hooked up air unit. Unloaded water from wellbore. Pulled 2 3/8" O.D. tubing.

Rigged up Capitan Corporation wireline truck. Perforated well, with 4" O.D. select-fire casing gun, with (26) 0.44" x 23" holes, with one shot each at:

2908	2939	2969	2998	3026	3195
2913	2944	2973	3002	3032	
2919	2953	2976	3007	3182	
2926	2958	2987	3015	3186	
2933	2963	2992	3020	3191	

Ran 5 1/2" Model "C" RBP and 5 1/2" Model "C" packer. Set 5 1/2" Model "C" RBP at 3236', with 5 1/2" Model "C" packer hanging at 3214'. Spotted acid, by pumping 2 bbls of 2% KCl water, followed by 150 gal of 15% MCA acid, followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 5 1/2" Model "C" packer at 3115'. Acidized perfs, from 3182' to 3195', with an additional 800 gal (total of 950 gal) of 15% MCA acid, and 6 ball sealers, at an average treating rate of 3.6 BPM and average treating pressure of 1330 psi. Flushed acid with 13.8 bbls of 2% KCl water. P_{mx} = 2900 psi, at ballout. ISIP = 0 psi.

Raised and set 5 1/2" Model "C" RBP at 3110', with 5 1/2" Model "C" packer hanging at 3048'. Spotted acid across upper perfs, by pumping 200 gal of 15% MCA acid, followed by 0.5 bbls of 2% KCl water. Allowed acid to fall and equalize. Raised and set 5 1/2" Model "C" packer at 2851'. Pumped 450 gal of 15% MCA acid down 2 3/8" O.D. tubing. Allowed acid to soak for 20 minutes. Acidized perfs, from 2908' to 3032' (22 holes), with an additional 2900 gal (total of 3550 gal) of 15% MCA acid and 33 ball sealers, at an average treating rate of 4.9 BPM and average treating pressure of 955 psi. Flushed acid with 15.8 bbls of 2% KCl water. P_{mx} = 2630 psi (33rd ball). ISIP = 0 psi.

Pulled and laid down 5 1/2" Model "C" packer and 5 1/2" Model "C" RBP.

Ran and landed bottom of 2 3/8" O.D. tubing at 3622' RKB (110 jts @ 32.67'/jt + 1.10' SN + 18' MA - 2' AGL + 11' KBC = 3621.8'). Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Started pumping well at 12:15 p.m., CDT, 6-18-03, at 7.5 SPM x 64" x 1 1/4".

Dug out cellar to a depth of 6'. Visually inspected 8 5/8" O.D. casing. Wrapped exposed casing with corrosion-resistant tape. Filled cellar with concrete.

Pulled rods, pump, and 2 3/8" O.D. tubing. Hooked up Capitan Corporation wireline truck. Ran 3 1/8" O.D. select-fire casing gun. Perforated well with (4) 0.37" x 19" holes, with one shot each at:

3348
3352

3379
3384

Ran 2 3/8" O.D. tubing and 4 1/2" Model "C" packer, to 3412'. Spotted acid, by pumping 100 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 3313'. Acidized perfs, from 3348' to 3384' (4 holes), with an additional 650 gal (total of 750 gal) of 15% MCA acid and 4 ball sealers, at an average treating rate of 2.5 BPM and average treating pressure of 2350 psi.

Flushed acid with 7 bbls of 2% KCl water. P_{mx} = 4000 psi, at ballout. Knocked off balls. Reset packer at 3313'. Finished flushing acid with an additional 7 bbls of 2% KCl water. ISIP = 0 psi. Pulled and laid down 4 1/2" Model "C" packer.

Ran and landed bottom of 2 3/8" O.D. tubing at 2872' RKB (87 jts @ 32.67'/jt + 1.10' SN + 18' MA + 2' CBJ - 2' AGL + 11' KBC = 2872.39'). Made up wellhead. Installed 3 1/2" 8 Rd heavy-duty frac valves.

Rigged up Halliburton, on 6-24-03. Performed CO_2 foam frac, at an average treating rate of 41.8 BPM, and average wellhead treating pressure of 2074 psi, utilizing 228,613 gal of gelled water and CO_2 (55% CO_2) and 467,800 lbs of frac sand (10.7% 20/40, 16% 10/20, 73.3% 8/16).

Cleaned up well, to blowdown tank, for 11.5 hours.

Removed heavy-duty frac valves. Re-installed 3" production valves. Installed BOP and rotating head. Hooked up high-volume air-foam cleanout units. Cleaned out frac sand, from 3290' to 3933'.

Raised and landed bottom of 2 3/8" O.D. tubing at 3622' RKB (110 jts @ 32.67'/jt + 1.10' SN + 18' MA - 2' AGL + 11' KBC = 3621.8'). Made up wellhead. Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Started pumping and testing well, at 12:30 p.m., CDT, 6-26-03, at 7.5 SPM x 64" x 1 1/4".