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, (915) 684-4011

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1650' FSL & 990' FWL (Unit L),
Section 35, T-23-S, R-36-E, N.M.P.M

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

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Stevens "A-35" Com No. 2

9. API Well No.
30-025-09467

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	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☒ Casing Repair & Cement Repair	☒ Water Shut-Off
	☒ Altering Casing (Install 4 1/2" O.D. FJL)	☐ Conversion to Injection
	☒ Other Returned Abandoned Jalmat Well to Active Producing Status	☐ 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 pages 2 of 5, 3 of 5, 4 of 5 and 5 of 5 attached hereto, and made a part hereof.

JUL
RECEIVED
Hobbs
OCD

ACCEPTED FOR RECORD
JUN 25 2003
GARY GOURLEY
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Engineer Date 06/17/2003

(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

GWW

Details of Completed Operations

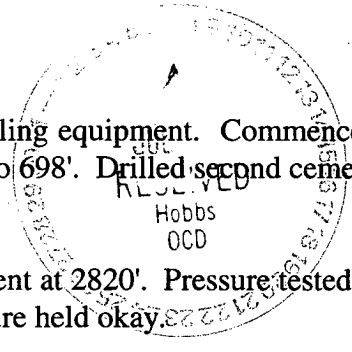
Moved in trackhoe. Dug out around well.

Rigged up welder. Cut off 23' of corroded 10 3/4" surface casing. Cut off 22' of 5 1/2" O.D. production casing. Replaced cut-off casing segments, with new 5 1/2" O.D. production casing and new 10 3/4" O.D. surface casing.

Welded 2" threaded collar to side of 10 3/4" O.D. surface casing, at both the top and bottom of the 10 3/4" O.D. x 23' replacement joint. Connected 2" O.D. riser to bottom collar. Welded cross braces to 10 3/4" O.D. casing, for centering of cellar can. Taped exposed casing with corrosion-resistant tape.

Installed 52" O.D. x 24' corrugated steel cellar can. Backfilled around cellar can. Sealed 10 3/4" x 5 1/2" casing annulus with 10 3/4" O.D. x 5 1/2" I.D. x 1/2" steel seal plate. Installed B & M Oil Tool 5 1/2" x 2 3/8" x 3 1/2" 3000-psi Type MR tubinghead. Filled cellar can with 13 cubic yards of concrete.

Leveled and re-caliched location.



Moved in and rigged up well service unit. Rigged up reverse drilling equipment. Commenced drilling cement plugs, on 5-5-03. Drilled top cement plug from 0' to 698'. Drilled second cement plug from 1133' to 1336'. Circulated hole clean.

Lowered 708' bottom-hole drilling assembly to 2820'. Tagged cement at 2820'. Pressure tested 5 1/2" O.D. casing (0' to 2820'), to 1000 psi, for 30 minutes. Pressure held okay.

Drilled cement, from 2820' to 2850'. Drilled on 5 1/2" CIBP, for 1 hour. Circulated hole clean.

Hooked up two high-volume air-foam circulating units. Unloaded water from hole. Commenced generating and pumping foam. Drilled on 5 1/2" CIBP for an additional 2.5 hours, before CIBP slips relaxed.

Pushed 5 1/2" CIBP to 3500'. Drilled up remainder of 5 1/2" CIBP. Drilled 4 3/4" hole to 3519'. Circulated hole clean. Pulled bottom-hole drilling assembly.

Ran 883' bottom-hole drilling assembly consisting of 4 3/4" button bit and (30) 3 1/2" O.D. drill collars. Drilled 4 3/4" hole to a new total depth of 3604'. Pulled bottom-hole drilling assembly.

Ran 4 3/4" string-mill assembly. Rotated string mill from 2887' to 3604'. Pulled string-mill assembly.

Ran 889' under-reamer assembly consisting of 6 3/4" x 4 3/4" under reamer and (30) 3 1/2" O.D. drill collars. Under reamed wellbore, from 3010' to 3140'. Circulated hole clean and dry. Pulled under-reamer assembly.

Ran second under-reamer, but could not run below 3140', due to sloughing and bridging. Pulled under-reamer assembly.

Cleaned out bridges to 3140'. Ran bottom-hole drilling assembly to 3598'. Cleaned out fill to 3604'. Circulated hole overnight with foam. Pulled bottom-hole drilling and cleanout assembly.

Ran 23-joint (792'), 4 1/2" O.D., 11.6 lb/ft flush-joint liner. Could not get liner to go past 3140'. Pulled and laid down 4 1/2" O.D. flush-joint liner.

Ran bottom-hole drilling and cleanout assembly. Circulated hole with foam and cleaned out formation material for an additional two work days. Pulled bottom-hole drilling and cleanout assembly.

Ran bottom-hole drilling and cleanout assembly equipped with a side-port jet-wash sub. Jet washed, with foam, from 3000' to 3335'. Ran bottom-hole assembly to 3600'. Cleaned out an additional 4' of fill. Pulled bottom-hole drilling and cleanout assembly.

Ran 23-jt (792'), 4 1/2" O.D., 11.6 lb/ft flush-joint liner. Landed bottom of liner at 3586', with top of liner at 2794'. Ran 2 7/8" O.D. work string and 5 1/2" Model "C" packer. Set packer at 2655'. Squeezed liner into place, at an average cementing rate of 10 BPM and average cementing pressure of 3600 psi, with 383 bbls of cement slurry consisting of 500 sx of API Class "C" cement containing 2.5% $CaCl_2$, followed by 1200 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, in stages, with 13.25 bbls of water. Final displacement pressure = 4000 psi. Released pressure, with no flowback. Pulled 2 7/8" O.D. work string and 5 1/2" Model "C" packer.

Tied onto 2" O.D. riser. Cemented 10 3/4" x 5 1/2" annular area, between replacement casing segments.

Installed 5 1/2" cementing head. Cemented down 5 1/2" O.D. casing, at an average cementing rate of 10 BPM and average pump pressure of 1100 psi, with 240 bbls of cement slurry consisting of

1000 sx of API Class "C" cement containing 3% $CaCl_2$, 5 lb/sx Gilsonite, 0.25 lb/sx Flocele. Displaced top of cement to 300', with 7 bbls of water.

ISIP	=	390 psi
1-min SIP	=	318 psi
2-min SIP	=	314 psi

Ran 236' bottom-hole drilling assembly consisting of 4 3/4" bit and (8) 3 ½" O.D. drill collars. Drilled cement from 333' to 464'. Fell out of cement at 464'.

Lowered bottom-hole drilling assembly. Tagged cement at 2544'. Drilled hard cement from 2544' to 2794' (top of 4 ½" O.D. flush-joint liner). Circulated hole clean. Pulled and laid down 236' bottom-hole drilling assembly.

Ran 182' 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 ½" O.D. liner, from 2794' to 3580'. Circulated hole clean. Pulled and laid down 182' bottom-hole drilling assembly.

Ran 5 ½" casing scraper to 2794'. Pulled 5 ½" casing scraper.

Ran 4 ½" casing scraper to 3580'. Pulled 4 ½" casing scraper.

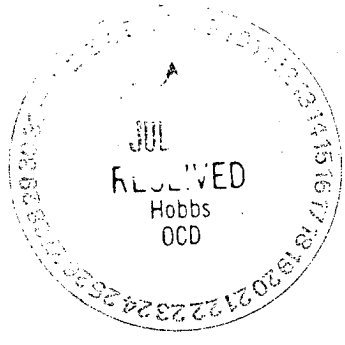
Rigged up Schlumberger. Logged well with SAS-CNL-GR-CCL log and VDCBL-GR-CCL log. Bond log documented that production casing was totally cemented, from surface to 3580', with excellent bonding from 290' to 1178'.

Ran 2 3/8" O.D. tubing and 5 ½" Model "C" packer. Pressure tested wellbore, from 2732' to 3580', to 3500 psi, for 20 minutes. Pressure held okay. Pulled 5 ½" Model "C" packer.

Ran 2 3/8" O.D. open-ended tubing to 3564'. Blew hole dry. Pulled 2 3/8" O.D. tubing.

Rigged up Capitan Corporation wireline truck. Perforated Jalmat interval, with 3 1/8" O.D. casing gun, with (22) 0.37" x 19" holes, with one shot each at:

3016	3040	3062	3080	3106
3020	3043	3066	3094	3113
3024	3052	3070	3097	
3028	3056	3073	3100	
3035	3059	3077	3103	



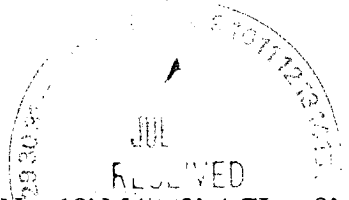
Ran 2 3/8" O.D. tubing and 4 ½" Model "C" packer to 3129'. Spotted acid across and above perfs, by pumping 2 bbls of 2% KCl water, followed by 150 gal of 15% MCA acid, followed by 0.5 bbl of 2% KCl water. Allowed acid to fall and equalize.

Raised and set 4 ½" Model "C" packer at 2972'. Pumped an additional 800 gal of 15% MCA acid down 2 3/8" O.D. tubing. Let acid soak for 30 minutes.

Acidized perfs, from 3016' to 3113', with an additional 5250 gals (total of 6200 gals) of 15% MCA acid, at an average treating rate of 4.0 BPM, and average treating pressure of 1404 psi. P_{max} = 1658 psi.

ISIP	=	364 psi
1-min SIP	=	39 psi
2-min SIP	=	0 psi

Pulled 2 3/8" O.D. tubing and 4 ½" Model "C" packer.



Ran and landed 2 3/8" O.D. tubing at 3417' (111 jts @ 30.56'/jt + 1.1' SN + 18' MA - 2' AGL + 8' KBC = 3417.26'). Ran 3/4" API class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Placed well on production, on 5-29-03, at 6.25 SPM x 64" x 1 1/4".

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

Ran 3 ½" O.D., 9.3 lb/ft, N-80 frac string and 5 ½" O.D. Perma-Latch full-bore packer. Set packer at 2767'.

Rigged up Halliburton. Performed CO_2 foam frac with 199,060 gal of gelled water and CO_2 (54.2% CO_2) and 450,000 lb of frac sand (10% 20/40, 15% 10/20, 75% 8/16).

Cleaned up well to blowdown tank, for 19.5 hours. Killed well. Pulled and laid down 3 ½" O.D. frac string.

Ran 2 3/8" O.D. production string. Tagged top of frac sand at 3080'. Hooked up high-volume air-foam circulating units. Cleaned out frac sand to 3580'.

Raised and landed bottom of 2 3/8" O.D. tubing at 3417' (111 jts @ 30.56'/jt + 1.1' SN + 18' MA - 2' AGL + 8' KBC = 3417.26'). Made up tubinghead. Ran 3/4" API Class "KD" rod string and 2" x 1 1/4" x 12' RHAC insert pump. Returned well to active producing status at 11:30 A.M., CDT, 6-13-03, at 6.25 SPM x 64" x 1 1/4".