Form 9-331
(May 1963)

UNIT) STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLIC (Other instructions o verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
NM0189083A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry,temp. P & A

2. NAME OF OPERATOR
Delaware-Apache Corporation

8. FARM OR LEASE NAME
Miller Federal

3. ADDRESS OF OPERATOR
1720 Wilco Building, Midland, Texas 79701

9. WELL NO.
#1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FSL & 660' FEL, Sec. 10, T9S, R37E, Lea County, N.M.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
10-9S-37E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4007' DF

12. COUNTY OR PARISH
Lea

13. STATE
N. Mex.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON* Temp.	X	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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.) *

See list of attachments: Complete report for logs, pkr., tbg. acidize, swab., perforations, swab, squeeze, perfs. P & A

Request permission to ~~x~~ temporarily abandon well for approximately one (1) year to allow time for evaluation of acreage position and may use well as salt water disposal at later date.

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

SIGNED Bonnie Gausland TITLE Production Clerk DATE 6-26-69

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
U. S. GEOLOGICAL SURVEY, Hobbs District

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

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GPO 837-499 867-851

3-22 Apache assumed operations at rig release. MORT.

3-23 MORT. Levelling location, installing anchors.

3-24 MI completion unit. Prep to run Neutron and Bond logs.

3-25 5150' PBTD. Rigged up DA&S Well Service. Ran Gamma Neutron and Cement Bond logs 5124-4000'. Ran 8-5/8" gauge ring and 8-5/8" Baker cast iron bridge plug set at 5114. Dumped 2 sx. cement on top of bridge plug. Started running 8-5/8" BOT Husky Packer, seating nipple and 2-7/8" 6.5# N-80 seal-lock tubing.

3-26 5114' PBTD. Finished in hole with 157 jts. tubing. Spotted 250 gals. acid at 4930'. Laid down 4 jts. - left 8-5/8" BOT Husky Pkr at 4805' with 153 jts. 2-7/8" 6.4# N-80 Seal-lock tubing. SN (FP 2.250) @ 4800'. Tested Packer with 2700 PSI. Spotted 500 gals 15% HCL + A-160 inhibitor + F-63 Surfactant. Perforated 4907-14', 4918-19', 4921-29' w/19 (.54) holes w/2-18/" OD jet gun. Dowell acidized with 750 gals acid. Breakdown 1800 PSI, rate 2 BPM @ 1300#, ISDP 1100#, 5" - 900#, 18 BAW and 28 bbls. treated water to recover. Job complete 4:30 PM. Started swabbing at 5:30 PM. Swabbed 28 BLW, 5 BAW; 13 BAW to recover. FL 4500'. Swabbing at 4800'. 50# SITP - bled off immediately. Fluid at 3800', First run - 100% acid water, no show.

3-27 5114' PB TD. Swabbed 5 bbls. acid water. PH 2 to 3 plus 5 bbls. new oil in 8 hrs. Fluid level at 4750. Prep to re-acidize.

3-28 5114' PBTD. Acidized w/4000 gals 28% + 4,000 gals 3% + additives. Treated in two stages of 2000 gals 28% + 2000 gals 3% plus 10 ball sealers. 25 PSI increase when balls hit perfs. Treating pressure 1750#, average rate 3.5 BPM, final rate 5 BPM, ISIP 1400#, 5" - 1300#, 15" - 1225#, Flowed 35 BLW, 35 BAW, Swabbed 75 BAW, 82 BAW left to recover. Last swab run recovered show of oil. FL @ 4200'. 12 hr. SITP 125#, FL 2800', first swab run recovered 100% acid water.

3-29 5114' PBTD. Swabbed 25 BAW in 4 hrs. then swabbed 23 BAW + 5 BNO; 34 BAW to recover. Fluid entering @ 2½ BTF/hour - 15% oil, 85% AW FL at 4750' 12 hr. SITP 50#, FL @ 3000', first swab recovered 10 bbls. total fluid, 15% oil, 85% water - 25.5 BAW to recover.

3-30 5114' PBTD. Loaded hole with 26 bbls. treated water. Perf 4953-56' 4961-67', 4975-78', 4988-96' (GR measurements) with 24 holes (.54" dia) Unseated 8-5/8" Husky Packer. Ran 4 jts plus 8', 4' and 6' sub. Set packer at 4945'. Would not hold pressure, released packer, ran to 5006'. Spotted 126 gals 15% acid with 2½ gals F-63. Attempted to reset packer at 4945' - would not hold pressure, seal apparently ruptured. Now pulling tubing.

3-31 5114' PBTD. Filled tbg and 8-5/8" Hydro packer, redressed packer, ran tbg. to 4965', set packer, attempted to acidize, circulated, reset packer at 4958', circ., set at 4963', circ., set at 4805', annulus held 500#, set at 5008', tubing held 1000#, set at 4972 and 4984', circ. Cement has apparently channeled behind 8-5/8" casing. Will attempt to acidize using diverting agents and temp. surveys.

4-1 5114' PBTD. Ran temp. base log. Pumped 50 bbls. treated water, 800# - 1¼ - ½ bpm, ran log, channeling up and down, pumped 150# moth balls and 500 gals acid, 2 bpm - 1000#, ran log, majority went up hole, pumped 300# moth balls and 500 gals acid 1/2 bpm at 925-975#, ran log, still channeling upward, pumped 350# moth balls and 500 gals acid, 1/4 bpm - 925#, ran log, no success. Will use 500# unibeads on next job.

4-2 5114' PBTD. Dowell pumped in 500# unibeads plus 200# J-182. Pressure increased from 1150# to 2450# when plug hit perforations. Final pump in pressure 2100# at 2 bpm. ISDP 1200#, ran Temperature log from 4805-5000' and log indicated that upward communication from perforations 4907-14' was plugged and a small amount of fluid was going downward from perfs 4996'. Dowell pumped 250# unibeads plus 500 gals 15% HCL. Started pumping in at 2 bpm 2200# and pressure increased to 2500# when plug hit perfs. Displaced acid in perfs at 1 bpm 1900# - 1400#. ISDP 1400#. Ran Temperature log and log indicated that fluid was again channeling upward. Dowell pumped 250# unibeads plus 1000 gals 15% acid at the rate of 3 to 3-3/4 bpm. Good plug action when beads hit perfs and pressure increased to 3000#. Broke from 3000-2200# when acid in perfs. Final pump in pressure 2000# at 3-3/4 bpm. ISDP 1300#. Ran Temperature log and fluid still channeling upward from 4907-14 and approximately 10 to 20% going downward from 4996'. Log still indicates channeling however, all perfs have been broken down and an undetermined amount of acid has been displaced into formation. 603 bbls. total load to recover. Flowed back 34 BLW and swabbed 116 BLW in 5 hrs. with FL at 4300' from surface. No show of oil or gas.

4-3 5114' PBTD. Swabbed 88 bbls load water in 10 hrs. FL @ 4300'. Stayed constant. Total recovered 238 bbls, 14 hrs. SITP 25#, FL @ 1500'. No show on first run - 100% load water. NOTE: Analysis of Temp. logs indicate all perforated zones have taken some acid and should be broken down sufficiently to yield fluid.

4-5 5114' PBTD. Swabbed 105 bbls. formation water in 9 hrs, FL at 4100', Show of gas after each run, 17 hrs, 25# SITP, first swab run recovered 10 bbls. formation water, water sample analysis strongly indicates formation water.

4-6 5114' PBTD, Unseated packer, pulled and laid down tbg, removed tbg head. Installed 8-5/8" X 2" Swedge with 2" valve. Temporarily abandoned.

4-10 Ran tbg 164 jts to 5114', encountered no bridges, pulled out of hole with 8-5/8" Baker full packer and 152 jts 2-7/8" to 4777'. Mixed and

pumped 100 sx. class "C" and 3/10 gal. per sack D-78 and 7/10 TIC and 50 sx. Class "C" Neat, mixed at 14.8#/gal at 2 to 1/2 bbls. per min. Pumped in at 0-1[illegible] Shut down with 1000# with 5.6 bbls cement in 8-5/8" casing below packer. Squeezed in at 1/4 bbl stages from 1000# PSI to 400 to 2000 in 3 hrs. Released press - Held OK. Unseated packer, started out of hole, pulled 40 stands, Shut down overnight, top cement expected at 4880'.

4-11 Ran in hole with 7-7/8" bit and 1 casing scrapper and six 4-3/4" DC, tag top of cement at 4848' and drilled good hard cement down to 4935. SD overnight, will drill remainder of cement and test squeeze jobs.

4-12 Drilled hard cement 4935-4960' and scattered cement from 4900-4995', Ran bit and scrapper to 5075, reversed hole,clean and tested squeeze job with 1300 PSI, pumped in at 1300 PSI at 1½ BPM, pulled out of hole, prep to re-squeeze.

4-13 Ran Baker 8-5/8" full bore packer, 152 jts. tbg set at 4777', Pumped in at 2¼ BPM at 1300, mixed and pumped 50 sx. Class "C" and .3 gal/sx D-73 and .7 percent D-65 and 50 sx. Class "C" neat. Squeezed with 72 sx. at 2000 PSI, released pressure - held OK. Pulled out of hole, laid down packer, picked up bit, scrapper and 6 DC and went in hole to 4700'.

4-14 Drilled cement to 4846', top of cement at 4808'. Pulled and exchanged bit, will continue drilling.

4-15 Drilled cement from 4846-5000' and ran bit to 5076' and conditioned hole for 1 hour. Pulled out of hole with bit. SD overnight.

4-16 Ran 8-5/8" packer and tubing [illegible]777', loaded hole, pumped down tubing to test squeeze, e[illegible]ub leaking, increased tubing and casing pressure to 1200 [illegible]ed to 1000 PSI in 20 mins, then held at 1000 PSI, pulled out of hole, perforated 4953-56', 4961-67' with 4 JSPF with 4" OD Densijet, ran 8-5/8" packer and tubing to 4966, spotted 500 gals 15 percent BDA. Pulled packer to 4714 and set. Displaced approximately 1/2 bbl acid into perfs in 30 mins. with 400 PSI, SD to let acid soak overnight.

4-17 Loaded hole with 2 bbls. flush water, then displaced 1/4 bbl at 500 PSI in 1 hr. 3-1/2 bbls. at 700 PSI in 5 hrs, 1 bbl at 900# to 4903', Swabbed 35 BLW, SD overnight, FL 3800'. This AM no pressure, FL at 1800', Swabbed 5 BLW and 5 BAW, 7 BAW to recover, FL at 3800', Swbg. at 4850', no shows.

4-18 Swabbed 7 BAW and 36 bbls. formation water in 8 hrs, no shows. FL at 4300', released packer, pulled out of hole, prep to perforate upper zone.

4-19 Ran Baker Model "K" cement retainer, set at 4946', started in hole with retainer stinger and tbg, air hose on slips ruptured, slips failed, dropped 6 jts tbg in hole, ran tbg to bottom open ended. Failed to screw into fish, pulled out of hole, ran 3-1/2" overshot, recovered fish, SD overnight.

4-20 Ran 158 jts. tbg with stinger, set in retainer, tested annulus to 1200#, held OK. Pumped into perfs with 1600# at 2 BPM, squeezed with 50 sx. Class "C" Neat, 14.8#/gal. Final pump press 1100#, Reversed out 14 sx. cement, pulled out of hole, WOC.

4-21 Perforated 4907-14, 4917½-4923½', 4924½-4930½' with 4" OD Densijet, 4 JSPF, Ran 8-5/8" full bore packer and 156 jts tbg set at 4777', swabbed 36 BLW in 3 hrs, swabbed down to 4500', FL increased 150' in 1 hr (.9 bbl), loaded hole with 22 bbls. treated water, unseated packer, ran tbg to 4940', spotted 500 gals 15 percent acid, pulled packer to 4710', reset, pumped 4 bbls. acid at 1000# at a very slow rate. Increased pressure to 1200#, feeding at 1/8 BPM, Pumped 4 bbls. SD overnight. Let acid soak 11 hrs. vacuum this morning. Required 2½ bbls to load tbg, pumped remaining 1½ bbls acid and 2 BLW at 1/2 BPM at 1200 PSI, ISIP 1200#, 5" 600#, 15 min. vacuum. Prep to run tbg. to 4777' and swab test. 12 BAW and 29 BLW to recover.

4-22 Swabbed 29 BLW and 12 BAW and 17 bbls. formation water in 5 hrs. FL at 4200', then swabbed 50 bbls. formation water in 5 hrs. FL at 4200'. SD overnight. This morning FL at 2000', swabbed 14 bbls. formation water, no show, FL at 4500', water analysis: NA 56,321, CA 20,826, MG 10,462, Cl 153,360, HCO3 945, SO4 720, Ph 5.0, SGR 1.159.

4-23 Swabbed 89 bbls. formation water in 85 hrs, FL at 4700'. If swab continuously swabs dry, SD 1 hr. approximately 1500' fluid enters hole. This AM 0 pressure, FL at 2500', no show on first run, prep to P&A.

4-24 Preparing to set cement plug over perfs.

4-25 Set 50 sx. cement plug, 4550-4650', laid down tbg, released unit P&A. FINAL REPORT.