

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

158
Op

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

JAN -2 '90

WELL API NO. 30-015- 04164
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-936
7. Lease Name or Unit Agreement Name Etz State Unit (TR 3)
8. Well No. 1
9. Pool name or Wildcat Grayburg
10. Elevation (Show whether DF, RKB, RT, GR, etc.) GR 3664'

SUNDRY NOTICES AND REPORTS ON WELLS. C. D.
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>
2. Name of Operator Devon Energy Corporation (Nevada)
3. Address of Operator 1500 Mid-America Tower, 20 N. Broadway, OKC, OK 73102

4. Well Location Unit Letter <u>N</u> : <u>660</u> Feet From The <u>south</u> Line and <u>1980</u> Feet From The <u>West</u> <u>East</u> Line Section <u>16</u> Township <u>17S</u> Range <u>30E</u> NMPM <u>Eddy</u> County
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10. Elevation (Show whether DF, RKB, RT, GR, etc.) GR 3664'
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11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-05-89 This am prep to pull tbg.
Moved in and rigged up Clarke Well Srv. Pulled pump and rods. SDON.

11-06-89 This am finish running tbg. Prep to jar on fish.
Nippled up blow out preventer. Tbg stuck. Pulled 35,000#, tbg up hole 8', stuck again. Pulled 45,000#, no movement. Pumped 75 bbls 180° lease water down tbg. Hole circ'd. Tried to work pipe free. Tbg pulled out of collar at 40,000#. Trpd 1380' 2 3/8" tbg. Ran overshot. Ran free point. Could not back off. Ran chemical cutter. Found tbg stuck 2128', free 2098'. Cut tbg 2117'. Trpd. Laid down 2 jts 2 3/8" tbg. SION.
(Continued on reverse)

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE Candi R. Graham TITLE Engineering Assistant DATE 12-15-89
Candi R. Graham (405) 235-3611 TELEPHONE NO.

TYPE OR PRINT NAME

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT I

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY:

JAN 10 1990

- 11-07-89 This am laying down fish.
Ran overshot, bumper sub. jars, drill collars, 2 3/8" tbg. Latched fish.
Worked pipe up hole 3', overshot slipped off. Trpd. Ran new overshot
w/longer skirt on bottom, could not latch fish. Trpd. Ran overshot
w/undersized grapple. Caught fish. Worked pipe free. Started out
w/pipe, drag 1st 12 stands out. SDON.
- 11-08-89 This am milling.
Finished out w/fish. Bottom 5 jts had holes like cheese. Bottom jt in 2
pieces. Ran bit to bad spot in csg. Could not work thru. Pulled bit.
Ran tbg open ended. Could not work thru bad spot. Trpd. SDON.
- 11-09-89 This am finishing in w/open ended tbg. Prep to run wireline.
Ran mill. Dressed top of fish. Trpd. Started in w/tbg. SION.
- 11-10-89 This am finish out w/4 3/4" mill. Prep run 6 1/8" mill.
Ran tbg thru bad spot in csg. Rigged up Jarrell Wireline to check if
inside 7" csg w/Csg Collar Locator. Ran thru 2 7/8" tbg and out bottom.
Affirmed inside 7" csg. Trpd wireline. Trpd tbg. Ran 4 3/8" string
mill. Milled 3' bad pipe. Trpd. Ran 4 3/4" mill. Milled 2' bad pipe.
Started out w/mill. SDON.
- 11-11-89 This am continue milling.
Ran 6 1/2" mill. Milled thru bad spot. Ran 2 jts. Tagged another bad
spot. Trpd. SDON.
- 11-12-89 This am prep run bit.
Ran 5" string mill. Milled thru bad spot 2275-2281'. Ran mill 2690'.
Trpd. Ran 6 1/2" tapered string mill. Milled thru bad spot 2275-2281'.
Trpd. SDON.
- 11-13-89 This am prep run 4 1/2" csg.
Ran bit and circ'd to 2861'. Trpd. Laid down 2 7/8" tbg. Ran 2 3/8"
tbg, trpd. laid down. SDON.
- 11-14-89 This am prep run Gamma Ray and Cement Bond log.
Changed wellhead. Started in hole w/4 1/2" csg. Shut down by NM
Commission. Laid down 4 jts 4 1/2" csg. Rigged up Wedge Wireline. Ran
Csg Inspection log 2660' to surface. Rigged down Wedge Wireline. SDON.
- 11-15-89 This am waiting on orders.
Rigged up Wedge Wireline. Ran Gamma Ray log 2880-2000'. Ran retrievable
bridge plug, set 1200'. Loaded hole w/water. Ran Cement Bond log 1196-
125'. Rigged down and released Wedge Wireline. Trpd retrievable bridge
plug. SDON.
- 11-16-89 This am prep squeeze.
Rigged up Jarrel Wireline. Ran cast iron bridge plug, set 2300'. Dumped
2 sx cement on plug. Rigged down and released Jarrel Wireline. SDON.
(Continued next page)

- 11-17-89 This am prep cement hole 525'.
Ran cement retainer on tbg, set 2215'. Unable pump into bad spot 2264'.
Press'd 1500 psi, no loss. Pulled out of retainer. Trpd. Ran packer,
set 2088'. Unable pump into bad spot 2155'. Press'd 1500 psi; no loss.
Pulled to 480', set packer. Pumped down tbg. Pumped into hole 525' and
had circ up 7" csg from hole 425'. Reset packer 360'. Pumped down tbg,
no blow on surface pipe. Trpd. Rigged up Jarrel Wireline. Ran perf
gun. Shot 4 holes 1012'. Rigged down and released Jarrel Wireline. Ran
cement retainer, set 951'. Pumped 100 sx Class C w/7# salt + 50 sx Class
C w/2% cc. Final pump press 450 psi. Staged to 650 psi. Pulled out of
retainer. SDON.
- 11-18-89 This am waiting on cement to set.
Ran cement retainer on tbg, set 472'. Rigged up Halliburton. Pumped down
tbg 65 sx Class C w/4# salt. Had circ behind 7" csg and out hole at 425'
letting some cement circ up hole. (Had communication between the holes.)
Pulled out of retainer. Spotted down tbg 75 sx Class C w/4# salt on top
of retainer. Pulled tbg. Displaced cement in hole 435'. Staged 2 hrs.
Moved 1/2 bbl per stage. Unable to get press on cement. Cement on
falling. Shut in. Rigged down and released Halliburton. SDON.
- 11-19-89 This am drlg cement.
Waited on cement to set.
- 11-20-89 This am drlg retainer.
Ran 6 1/8" bit, 6 drill collars. Tagged top of cement. Drld hard cement
to retainer. Press'd 300 psi. Had leaks in 7" csg at surface. Drld 1'
of retainer. SDON.
- 11-21-89 This am continue drlg retainer.
Tagged retainer 475'. Drld 15" in 9 hrs. Trpd bit. SDON.
- 11-22-89 This am continue drlg.
Ran 6 1/8" bit, 10 drill collars. Tagged retainer 476'. Drld thru at
477'. Hit cement. Drld thru at 510'. Press'd 500 psi. Ran bit to
cement 914'. Drld to retainer 952'. SDON.
- 11-23-89 This am shut down for holiday.
Drld retainer 952-955', cement 962'. SDON.
- 11-24-89 Drld cement 962-1080', fell thru. Press'd csg 400 psi. Pumped in
squeeze at 1 bbl per min.
- 11-25-89 to 11-27-89 Shut down for weekend. Waiting on cement program.
- 11-28-89 This am prep run cement retainer 950'.
Ran 7" tension packer, set 1014' but hung. Freed w/5 points pull. Trpd
w/small piece 7" csg on top of packer. Ran 6 1/8" mill. Ran thru tight
spot. no drag. 5 3/4" overshot passed freely thru bad spot. Trpd. SDON.
(Continued on reverse)

- 11-29-89 This am drlg retainer 952'.
Rigged up Halliburton. Ran 7" EZ Drill cement retainer. Dowell on location 1 pm. Rigged up Dowell. Established circ thru retainer, set 952'. Dowell could not pump into perms below retainer. Trpd setting tool which was not plugged. Stung into retainer. Dowell re-press'd 1300 psi, no fluid entry. Rigged down and released Dowell. Trpd tbg. Rigged down and released Halliburton. Ran 6 3/4" bit. SDON.
- 11-30-89 This am drlg 2nd cement retainer.
Drld retainer which dropped to bottom. Press'd csg, 1 bbl per min at 400 psi. Ran 7" packer, set 926'. Press'd csg, below retainer, 500 psi; OK, no leak. Tested above on backside 450 psi; lost 150 psi quickly. Reset 450'. Press'd tbg 450 psi; bled 300 psi. Shut down for noon. After 1 1/2 hrs 260 psi; OK by NM Commission to run liner. Trpd packer. Ran 6 1/8" bit. DCs. Tagged 2213'. Milled retainer 2'. SDON.
- 12-01-89 This am shut in csg press 250 psi. Back flwd at 5 gals/min brine.
Drld retainer 2215'. fell to bottom. Tagged 2290'. Drld rest of retainer, 12' cement, cast iron bridge plug 2300'. SDON.
- 12-02-89 This am prep test cast iron bridge plug.
Ran packer, set 2190'. Pumped into csg below packer at 2 bbls per min, 180 psi. Press'd backside 300 psi. SDON.
- 12-03-89 This am waiting on cement to set.
Opened, no flow. Rigged up Dowell. Pumped into csg below packer (2190') at 4.4 bbls per min, 600 psi. Reset packer 2287', 3' above cast iron bridge plug. Pumped into csg 4 bbls per min, 500 psi. Bridge plug leaked. Trpd packer. Ran bit. Drld bridge plug, fell thru. Ran to 2891'. Trpd. Ran 2 7/8" tbg open ended. Spotted 25 sx Class C Neat at 2880'. Pulled 10 stands + 1 jt. SDON.
- 12-04-89 This am ran in hole to tag cement, none at 2880'. Ran 2958', tagged bottom, no cement. Prep spot cement.
Shut down for weekend.
- 12-05-89 This am prep tag PBTD and spot sand.
Shut in csg press 280 psi. Ran to 2958', no cement plug 2880'. Trpd. 8 its 2 7/8" tbg full of cement. Replaced and reran. Rigged up Dowell. Spotted 40 sx RFC cement w/3% cc 2958'. Picked up 10 stands. Reversed out tbg. Shut in 2 hrs. Tagged 2788'. Spotted 5 sx cement 2786'. Pulled 10 stands. Reversed out tbg. SDON.
- 12-06-89 This am washing sand to bottom of csg 2688'.
Shut in csg press 350 psi. Tagged 2786'. Pulled 10 stands. Pumped 1600# sand at 1 bbl per min. Shut in 1 1/2 hrs. Tagged 2736'. Pulled 10 stands. Pumped 1200# sand at 1 bbl per min. Pulled 10 stands. Shut in 1 1/2 hrs. Tagged 2770'. Pulled 10 stands. Pumped 1000# 10/20 sand at 1 bbl per min. Pulled 10 stands. Shut in 1 hr. Tagged sand 2651'.
- 12-07-89 This am prep reverse pea gravel out to 2700'.
Circ'd sand 2651-2700'. Ran tbg, tagged 2770'. Dumped 1 cu. yd. pea gravel. Shut down 1 1/2 hrs. Tagged 2558'. Reversed pea gravel out at 2680'. Pulled 10 stands. SDON.

(Continued next page)

- 12-08-89 This am running 4 1/2" liner.
Reversed out pea gravel 2680-2700'. Circ'd hole clean. Stroked tbg on gravel pack at 2700'; held OK. Laid down 2 7/8" tbg and DCs. SDON.
- 12-09-89 This am waiting on cement to set.
Ran 67 jts 4 1/2" 10.50# ST&C used csg, guide shoe on bottom jt (.65'), insert float at top of bottom jt, DV tool at 2085.27' (2') = 2693.15'; 15 centralizers every other jt from bottom, 3 centralizers every other jt at top. Dowell cemented 1st stage w/75 sx Class C w/5% D65 dispersant. Bumped plug 810 psi; held. Opened DV tool. Circ'd csg annulus volume + 30%; no slurry from 1st stage. Waited on cement to set 4 hrs. Pumped 2nd stage w/130 sx 35/65 Pozmix, C grade, w/6% D20 + 50 sx Class C w/5% D65 dispersant. Held 250 psi on backside after cement circ'd. Circ'd 21 sx cement to pit. Shut in 5:45 pm 12-08-89. Good circ thru 1st and 2nd stages. SDON.
- 12-10-89
to Waited on cement to set. This am picking up bit, DCs, tbg.
- 12-11-89
- 12-12-89 This am drlg on insert float.
Ran 3 7/8" bit, bit sub, 4-3 1/8" Dcs, 2 3/8" 8rd tbg. Tagged DV tool 2083'. Drld DV. Ran bit 2650'. Drld rubber plug. Drld on insert float. Circ'd hole clean. SDON.
- 12-13-89 This am prep to tag. Will displaced w/10 ppg brine.
Drld insert float. 1 jt of cement below float and guide shoe. Fell out of csg 2693'. Tagged pea gravel 2705'. Cement soft 90-93'. Reversed out pea gravel 2705-2793'. Circ'd hole clean. SDON.
- 12-14-89 This am prep to re-squeeze.
Tagged 2793'. Pulled 1 jt. Displaced w/45 bbls 10 ppg brine. Overdisplaced w/15 bbls 10 ppg brine. Did not stop water flow. Trpd tbg. Stood back collars. Ran Halliburton 4 1/2" EZ Drill cement retainer, set 2664'. Pumped 60 sx Class C Neat w/2% cc at 600 psi, min treating press zero psi. Max press 900 psi when displacing cement at end of job. Displaced cement to formation. Pulled out of retainer. Reversed tbg clean.
- 12-15-89 This am waiting on cement to set.
Stung into retainer. Dowell established injection rate 2 1/2 bbls per min at 1100 psi. Hesitation squeezed over open hole w/50 sx RFC "A" + 60 sx Class C Neat w/2% cc, preceded by 1 drum Zone-Lok D75. Min treating press 5500 psi; max 3000 psi. Shut down. Pulled out of retainer. Reversed tbg. Pulled setting tool. Shut in.
- 12-16-89
to Waiting on cement to set. Shut down for weekend.
- 12-17-89
- 12-18-89 This am prep to drill cement retainer and cement plug.
(Continued on reverse)

- 12-19-89 This am no csg press, no flow. Prep drill 8' then check for water flow. Ran 3 7/8" bit, 4 - 3 1/2" DCs, 2 3/8" tbg. Tagged retainer 2664'. Drld retainer. Drld cement 2702'. SDON.
- 12-20-89 This am swabbing csg to 2000'. Prep to perf. No press, no flow. Drld cement 2702-2710'. Shut down. Checked for water flow, had none. Trpd bit. Waited on Wedge Wireline 3 hrs. Moved in and rigged up Wedge Wireline. Ran Cement Bond log 2704-640'. Showed good bond TD-2260', free pipe 2260-2081' no cement, Good bond 2081-640'. Rigged down Wedge Wireline. Ran tbg 2000' open ended. SDON.
- 12-21-89 This am shut in csg press 350 psi. Fluid level at surface. 1st hr swabbed 24 bbls water w/trace basic sediment. Fluid level 1000'. Continue swabbing. Swabbed csg 2000'. Tested for water flow = none. Rigged up Wedge Wireline. Perf'd w/3 1/8" gun, 4 shots per ft, 2694-2700' (shot 1' low due to csg shoe), 2674-2668', 2642-2628', 2598-2592', 2584-2586', 2542-2514', 2508-2506', 2501-2495', total 289 shots. Fluid level 1st set perfs 1800' from surface: 2nd at 1700'; 3rd at 1200'; 4th at 650'; 5th at 450'; 6th at 200'. Perf'd 2-4 pm. Rigged down and released Wedge Wireline. Ran seating nipple, 2 3/8" tbg 2690'. Made 3 swab runs while waiting on test truck. Recovered very dirty fluid (some iron sulfide, cement water, fair oil rainbow). SDON.
- 12-22-89 This am shut in csg press 300 psi. Waiting on crew. Prep swab. Swabbed 4 hrs. Final fluid level 1700'. Recovered 75 bbls water. Trpd tbg. Ran Johnson tension 4 1/2" packer, bull plugged, set 2684'. Ran perf'd nipple above packer. Swabbed csg 3 hrs. Initial fluid level 900' from surface, final 1700' and for last 5 or 6 runs. Recovered 30 bbls black water (oil odor and stain) in 3 hrs. SDON 5 pm.
- 12-23-89 This am shut down for weekend. Thawed frozen lines. Fluid level at surface. Swabbed 31 bbls fluid w/oil show. Final fluid level 1400'. Reset packer 2615' (isolate perfs). Swabbed 23 bbls fluid, no oil show. Initial fluid level 1500' from surface, final 2300'. Shut down 1/2 hr. Checked fluid entry = 150'. SDON.
- 12-24-89
to
12-26-89 Shut down for holiday.
- 12-27-89 This am returned to production. Drop from report. Released packer and trpd. Ran tbg string. Nippled down blow out preventer. Ran 105-5/8" rods and laid down same. Ran pump and 3/4" rods. Rigged down and released Clarke Well Srv. Hung well on. Ran production string as follows.
- | | |
|------------------------------------|--------|
| mud anchor, bull plugged | 31.82' |
| seating nipple at 2698.90' | 1.00' |
| 89 jts 2 3/8" 4.7# J55 EUE 8rd tbg | |
| 2" X 1 1/2" X 12' THD pump | |
| 106-3/4" rods | |