

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Enr Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

dsp

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

WELL API NO. 28906
30-015-28105

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No. K-5017

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"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

TODD "2" STATE

1. Type of Well:
OIL WELL GAS WELL OTHER

8. Well No. 3

2. Name of Operator
SONAT EXPLORATION COMPANY

9. Pool name or Wildcat
INGLE WELLS (DELAWARE)

3. Address of Operator
110 WEST LOUISIANA STE 500, MIDLAND, TEXAS 79701

4. Well Location
Unit Letter _____ : 660' Feet From The FSL Line and 660' Feet From The FEL Line
Section 2 Township 24S Range 31E NMMP EDDY County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3501' GL

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"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	
OTHER <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.

SEE ATTACHMENT

RECEIVED
JUN 11 1996
OIL CON. DIV.
DIST. 2

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

SIGNATURE K. Glenn Carter TITLE SENIOR DRILLING & PRODUCTION ENGINEER DATE 06/10/96

TYPE OR PRINT NAME K. GLENN CARTER TELEPHONE NO. (915) 684-0405

(This space for State Use) ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

APPROVED BY _____ TITLE _____ DATE JUN 17 1996

CONDITIONS OF APPROVAL IF ANY _____

Todd "2" State Well No. 3
Summary of Drilling Reports

**Report
No.**

1. MIRU Nabors 142. Spud 14-3/4" hole at 3:30 a.m. 4/25/96.
2. TD 14-3/4" hole at 440' at 1:30 p.m. 4/25/96.

Ran 11-3/4" 42# WC40 STC surface casing and set at 432'.
Centralized the bottom joint and every other joint to surface.

Dowell cemented with:

Lead - 200 sx Class "C" with 4% gel, 2% CaCl₂, and 1/4# FC
(13.5 ppg, 1.74 ft³/sx)

Tail - 200 sx Class "C" with 2% CaCl₂ and 1/4# FC
(14.8 ppg, 1.34 ft³/sx)

Circulated 153 sx cement to pit.

Bumped plug at 6:00 p.m. 4/25/96.

Install wellhead. NU BOP and manifold.

Test BOP and casing to 1000 psi from 6:30-7:00 a.m. 4/26/96.

WOC time prior to pressure test: 12-1/2 hrs.

3. Drilling 11" hole. Drilling ahead at 1645'. Deviation 3/4 degree.
4. Drilling ahead at 2725'. Deviation 1-1/2 degree. Replaced kelly. Work on #2 pump. ✓
5. Drilling ahead at 3390'. Deviation 1/2 degree.
6. Drilling ahead at 3963'. Deviation 2 degrees.
7. Drilling ahead at 4365'. Deviation 2-1/4 degrees. Trip for hole in d.p. at 4325'.
Hole in middle of Stand #31.
8. TD 11" hole at 4398'.

Weatherford Csg Crew ran 8-5/8" 23# M50 STC intmt csg. Filled casing every 5th jt.
With 103 jts in hole, set down on bridge at 4262'.

The string was picked up and set down 3 times in an attempt to work past bridge.

The string was then rotated 3 times in an attempt to roll off the ledge. No progress.

Made up circ swedge. Broke circ.

Casing parted as soon as casing caught pressure (200 psi). Lost 20,000 lbs weight.

Attempt to screw into casing - unsuccessful.

Lay down 62 jts casing. The last joint out of the hole had a collar on bottom.

Left 42 jts in hole (1725'). Top of fish 2510'.

Report

No.

- 9 - 12. Fished for 8-5/8" casing.
12. Spot cmt plug at 3854 - 3654'. (125 sx RSC.)
13. Spot kick off plug at 2900 - 2650'. (350 sx Class C with additives, 16 ppg).
WOC 12 hrs. Clean out soft cement to 2595'. Pull up to 2500'.
14. WOC until 24 hrs since plug was set.
Dress off plug from 2616-27' - good hard cement.
Trip for mud motor and 2 degree bent sub.
Time drill from 2627-48'. 100% formation returns at 2638'.
15. Build angle with mud motor from 2648-79'. Survey at 2670' - 1 degree.
LD mud motor. TIH with 60' pendulum BHA. Drilled to 2918'.
While drilling from 2885-2918, the bit acted like it was running on junk
(torquing up, even though WOB was only 2-5k).
TOH. Bit OK, but bottom of IBS has junk marks on it.
16. TIH with 11" bit. Tagged up, then reamed from 2702-20'. Fell thru to 2790'.
Reamed from 2790-3590' (bit fell back into old hole).
Cut 100% cement from 3554-90, with hole reaming hard (no metal in returns).
TOH. All inner teeth on all 3 cones were broken off. No indication that bit or BHA
has run on junk. No hole trouble or drag.
Drilled cement from 3554-3617'. Bit fell into old hole at 3617-3757' (140' of old hole).
Dress off firm cement from 3757-70'. TOH. Bit has junk marks on it.
TIH with magnet and junk basket.
17. Chain out of hole. Recovered 1 quart of junk in magnet and junk basket (ground up
casing with pieces no larger than a quarter).
TIH with mud motor. Time drill from 3770-3806. Motor stalled at 3806. TOH.
TIH with new mud motor. Time drill from 3806-10.
18. Time drill with mud motor from 3845-57'. Motor locked up. TOH.
TIH with 11" bit. Drilled from 3857-77, WOB 25k, 70 RPM, torque 175 - 600.;
At 3877, bit torqued up and stalled rotary table. Will not rotate with 1-2 k WOB.
TOH. Marks on bit indicate that bit is down beside the 8-5/8" csg.
Spot kick off plug. 220 sx Class C plug (with additives) 16 ppg, from 3877 to 3636'.
Pull 10 stands, circ and WOC.
19. WOC total of 23-1/2 hrs. Dress off top of plug. Drill firm cmt from 3715-32'.
Trip for bent housing motor and bent sub.
20. Time drill from 3732-88'. Motor locked up. TIH with new motor.

Report

No.

21. Drill with motor from 3788-3956'. Last survey at 3828' , 4 degrees, N40E.
TOH, LD motor. TIH with 60/90' pendulum BHA. Ream from 3735-3862'.
Drilled to 3956'. Survey at 3935', 5-3/4 degrees.
No hole trouble or drag.
22. TD 11" hole at 4350'. Ran fluid caliper for cement volume.
23. Weatherford Csg Crew ran 8-5/8" 24# K55 STC intmt casing.
Centralized the bottom 3 joints. Set csg at 4350'.
Filled casing every 5 jts while running.

Dowell cemented with:

Lead - 2186 sx 35/65 Poz "C" with 6% gel, 5% salt, 1/4# FC
(12.4 ppg, 2.14 ft3/sx)

Tail - 200 sx Class "H" with 2% CaCl2
(15.6 ppg, 1.20 ft3/sx)

Circulated 90 sx cement to the pit.
Bumped plug at 10:30 a.m. 5/16/96.

Install wellhead. NU BOP.

Test BOP and casing to 1000 psi from 10:30-11:00 p.m. 5/16/96.

WOC time prior to pressure test: 12 hrs.

Drilled out from under intmt csg at 4:40 a.m. 5/17/96.

30. TD 7-7/8" hole at 8511' at 12:30 p.m. 5/23/96.
Atlas ran OH logs.
32. Ran 5-1/2" 15.50 J55 and 17# K55 LTC casing and set at 8511'.
Centralized every other joint from TD to intmt csg.

Dowell cemented in 2 stages with:

1st Stage - 550 sx 50/50 Poz H with 2% gel, 5# salt, 0.15% D59 FLA, 1/4# FC
(14.2 ppg, 1.34 ft3/sx)

Circulated 75 sx. DV tool at 6491'.

2nd Stage - 910 sx 50/50 Poz H with 2% gel, 5# salt, 0.15% D59 FLA, 1/4# FC
(14.2 ppg, 1.34 ft3/sx)

TOC designed to tie back into intmt csg.

Full returns on displacement.

Bumped plug at 8:30 p.m. 5/25/96.

Released rig at 12:00 a.m. 5/26/96.

Completion

MIRU pulling unit. Install BOP.

Drilled out DV tool at 6491.

Test casing to 3000 psi from 6:00-6:30 p.m. 5/30/96.

Ran CBL. TOC at 3566'.

Perforated the Delaware (Basal Brushy Canyon) from 8112-8136' (2 JSPF, 48 holes).

Acidize with 1,000 gals 7-1/2% NEFE acid.

Sand frac with 77,500 gals XL gel and 200,000 lbs 16/30 Ottawa sand.

Swabbing back load.

KGC 6/04/96

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