

STATE OF KANSAS  
STATE CORPORATION COMMISSION  
200 Colorado Derby Building  
Wichita, Kansas 67202

WELL PLUGGING RECORD  
K.A.R.-82-3-117

15.185.12465.0000

API NUMBER Docket #D-2879

LEASE NAME Lucy Walters

TYPE OR PRINT  
NOTICE: Fill out completely  
and return to Cons. Div.  
office within 30 days.

WELL NUMBER #2

990 Ft. from S Section Line

4950 Ft. from E Section Line

SEC. 20 TWP. 21 RGE. 12 XXXX (W)

COUNTY Stafford

LEASE OPERATOR FINA OIL & CHEMICAL COMPANY

1601 N.W. Expressway, Ste. 900

ADDRESS Oklahoma City, OK 73118

PHONE# (405) 840-0671 OPERATORS LICENSE NO. 5692

Date Well Completed 10-1-48

Character of Well SWD

Plugging Commenced 4-13-88

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Plugging Completed 7-28-88

Did you notify the KCC District Office prior to plugging this well? Yes

Which KCC Office did you notify? District 6

Is ACO-1 filled? Yes if not, is well log attached? \_\_\_\_\_

Producing Formation None Depth to Top 3652 Bottom 3700 T.D. 4100

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

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8-23-88

AUG 23 1988

| Formation | Content | From | To | Size  | Put In | Pulled Out |
|-----------|---------|------|----|-------|--------|------------|
| NA        |         |      |    | 8-5/8 | 300'   | -0-        |
|           |         |      |    | 5-1/2 | 3750'  | -0-        |
|           |         |      |    |       |        |            |
|           |         |      |    |       |        |            |

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet each set.

Pumped 320 bbls. of drilling mud down 8-5/8" csg., followed by 150 sx of Econolite. Allowed to set for 30 min. Pumped 150 sx Econolite down 5-1/2" csg. Pumped 236 bbls. mud 800# hulls. cement circ. out 5-1/2" csg. Pumped 50 sx of salt gel & 65 bbls. mud followed by 370 sx of 65/35 poz + 5% CC & (If additional description is necessary, use BACK of this form.) -Continued-

Name of Plugging Contractor Allied Cementers License No. \_\_\_\_\_

Address Russell, KS

STATE OF Oklahoma COUNTY OF Oklahoma, ss.

Joe Springer (Employee of Operator) or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

(Signature) Joe Springer

(Address) 1601 N.W. Expressway, #900

Oklahoma City, OK 73118

SUBSCRIBED AND SWORN TO before me this 19th day of August, 19 88

Raylene M. Smith  
Notary Public

My Commission Expires: 7/6/92

4-15-88 15.185.12465.0000

1 120092

API NUMBER 15- Docket #D-2879

To: STATE CORPORATION COMMISSION  
CONSERVATION DIVISION - PLUGGING SECTION  
200 COLORADO DERBY BUILDING  
WICHITA, KANSAS 67202

NW SW SW. SEC. 20, T 21 S, R 12 W/EX  
990 feet from S section line  
4950 feet from E section line

TECHNICIAN'S PLUGGING REPORT

Operator License # 5692  
Operator: Fina Oil & Chemical Company  
Name & Address: Box 209  
Russell, KS 67665

Lease Name Lucy Walters Well # 2  
County Stafford 133.25  
Well Total Depth 4100 feet  
Conductor Pipe: Size \_\_\_\_\_ feet  
Surface Casing: Size 8 5/8 feet 200

Abandoned Oil Well \_\_\_\_\_ Gas Well \_\_\_\_\_ Input Well \_\_\_\_\_ SWD Well  D&A \_\_\_\_\_

Other well as hereinafter indicated \_\_\_\_\_

Plugging Contractor Fina Oil & Chemical Company License Number 5692

Address Box 209, Russell, KS 67665

Company to plug at: Hour: 9 a.m. Day: 28 Month: 1 Year: 19 88

Plugging proposal received from Don Tiffin

(company name) Fina Oil & Chemical Company (phone) 913-483-2102

were: 5 1/2" at 3750' 3 1/2" liner from 3740-3995' Cut window at 3684-94'. Deepened hole to 4100' in 1960. Ran 3 1/2" fiberglass tubing to 3575' in 1968.

1st plug run 1 1/2" tubing inside of 3" fiberglass tubing to TD and plug with cement from TD.

Plugging Proposal Received by Duane Rankin (TECHNICIAN)

Plugging Operations attended by Agent?: All  Part \_\_\_\_\_ None \_\_\_\_\_

Operations Completed: Hour: 11 a.m. Day: 15 Month: 4 Year: 19 88

ACTUAL PLUGGING REPORT Unable to get 1 1/2" tubing past 1140' inside the fiberglass.

The enclosed attachment explains what work was done and materials used in plugging the well. Total cement - 1815 sx various blends from common to ATL, mixed and pumped liquid diverter, diesel, bentonite, hulls, cello flake, wheat and salt mud. Cemented by Allied. No casing recovery.

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Remarks: (if additional description is necessary, use BACK of form)

INVOICED (if possible) observe this plugging.

Signed Duane Rankin (TECHNICIAN)

DATE 5-6-88

INV. NO. 20545 AUG 3 1988

## NOTES ON LUCY WALTERS

Work done as of 4/15/88.

- 1/28/88 Ran 1½" tubing to 1140', tried to work through for 2½ hours, laid down one joint and set at 1130'. Injected 30 barrels water through 1½" tubing, 3 barrels per minute. 200 psi. Well on vacuum as soon as pumping stopped. One barrel in 30 seconds. Pumped 15 sx of gel and 50 sx cement (50/50 Poz). Shut down ½ hour. Pumped 50 sx cement (50/50 Poz). Shut down ¾ hr. Pumped 50 sx cement (50/50 Poz). Shut down ½ hr. Pumped 20 sx cement (50/50 Poz) hot. Shut down overnight—ran out of cement.
- 1/29/88 Pumped 3 bbl. water, well on vacuum as soon as pumping stopped, 1 bbl. in 30 seconds. Pumped 50 sx cement, shut down 1½ hr. Pumped 1½ sx gel and hulls, plugged 1½" tubing, laid down 10 joints to pump out, ran 11 joints of tubing back in hole, had trouble from 900-1140'. Laid down 1 joint and set at 1130'. Mixed and pumped in 1½" tubing with 30 sx gel and some LCM. Followed with 50 sx cement, followed with 5 sx gel. Shut down for 2 hours. Pumped 50 sx cement with 5% Gilsonite added followed with 5 sx gel. Shut down for 1 hr. Pumped 100 sx ATL. Shut down over weekend.
- 2/1/88 Richard Lacey on location. Pumped 14 bbl. water, vacuum, 1 bbl. in 30 seconds. Pumped 75 sx ACS (hot) cement, shut in 1½ hours. Pumped 3 bbl. water—still on vacuum. Pumped 75 sx ACS cement, shut down overnight..
- 2/2/88 Pumped 5 bbl. water, still on vacuum, 1 bbl. in 30 sec. Pumped 75 sx ASC cement, shut down 1½ hrs. Pumped 3 bbl. water, vacuum the same. Pumped 75 sx ASC cement, shut down overnight.
- 2/3/88 Pumped 3 bbls. water, vacuum the same. Mixed water and 700 lbs. coarse frac sand, waited 1 hr. Mixed water and 700 lbs. coarse frac sand, waited for 2 hr., had to get more sand. Mixed water and 2000 lbs. fine frac sand, followed by 400 lbs. of whole wheat grain and 50 sx ATL, shut down 2½ hrs., same vacuum.
- 2/8/88 Pumped 3 bbl. water, same vacuum, 30 sec. per barrel. Pumped 8 bbl. diesel, liquid diverter, mixed with 9 bbl. diesel, followed by 2 bbl. diesel, followed by 25 sx common cement 3% cc added. Shut down 3 hr., same vacuum.
- 2/9/88 Pumped 3 bbl. water, same vacuum, 30 sec. per barrel. Pumped 2 bbl. diesel, 110 gallons of liquid diverter, followed by 2 bbl. diesel, followed by 50 sx ACS cement—set one hour and released valve at top of 1½" tubing, waited 2 more hrs. and pumped in 3 bbl. water, well still on same vacuum, let well take approx. 30 bbl., on vacuum. Started to pull 1½" tubing out of the hole, first 3 joints were fairly tight. Pulled 9-10,000 lbs. on tubing, weight of tubing was 4100 lbs. Tubing freed up, laid down 17 joints and the well started flowing through the 1½" tubing, the tubing head and the braden head with bottom of tubing at 579'.

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The well blew very hard for  $\frac{1}{2}$  hr., estimated blow was 500,000. The blow consisted of saltwater, sand and diesel fuel. After the well stopped blowing, the rest of the tubing was laid down.

Ran a temperature survey and collar locator in the wellbore got to 904'. The temperature survey showed the fluid level of the well to be at 310'. The collar locator indicator was very erratic, from approx. 300-385' and 420-760' and 790-904'. Good casing from 0-300', 385-420' & 760-790'.

2/10/88 Reviewed log with Bob Hale, engineer with Welex. Mr. Hale stated that the collar locator on the log showed holes in the  $5\frac{1}{2}$ " casing.

3/1/88 Cellar had been dug deeper, cut approx. 4' off of  $8\frac{5}{8}$ " &  $5\frac{1}{2}$ " and orange peeled together and welded 2" collar in the  $8\frac{5}{8}$ ". Cut small amount off of the 3" fiberglass tubing and molded on a new collar.  
Ran flag inside of 3" fiberglass tubing; it stopped at 290', worked it loose and ran it to 900' and pulled flag and weight out of hole. Pumped 80 bbl. salt mud and 500 lbs. hulls through fiberglass tubing and circulated on back side. Pumped another 65 bbl. salt mud followed by 50 sx common cement with 3% cc.

3/2/88 Ran measuring line in fiberglass tubing (Allied). Bad place at 290', worked through bad place and ran line to 890', mushy on bottom approx. 10' above where the line got on 3/1/88.

3/15/88 Ran  $1\frac{1}{2}$ " tubing to 300' from ground surface, worked the tubing for  $2\frac{1}{2}$  hours and pulled tubing out of the hole, threads on the bottom joint appeared to have been rubbing on metal.

3/23/88 Pumped 320 bbls. of drilling mud down the annulus between  $8\frac{5}{8}$ " surface and  $5\frac{1}{2}$ " casing, followed by 150 sacks of lite cement. Changed over to the  $5\frac{1}{2}$ " casing and pumped in 150 sx lite cement down the  $5\frac{1}{2}$ " casing.

3/24/88 Pumped 235 bbls. of drillmud, saltwater, 50 sx salt gel and hulls mixed in and filled the hole. Pumped an additional 65 bbls. of mud down the hole to keep up with the loss of fluid until we had enough fresh water on location ready to mix cement. Mixed and pumped 370 sx of 65/35 Pozmix with 6% gel and 470 cc added. We switched from the  $5\frac{1}{2}$ " casing to the annulus several times, putting an additional 30 sacks cement down the  $5\frac{1}{2}$ " casing.

3/28/88 Ran measuring line inside  $5\frac{1}{2}$ " casing and fiberglass tubing. Ran line to 275', estimated that to be the top of cement. Pressured  $5\frac{1}{2}$ " casing to 90 lbs., pumped approx. 4 bbl. water. The  $5\frac{1}{2}$ " casing held the 90 lbs. for 15 min. Pumped approx. 15 bbl. water in annulus at 30 lbs., couldn't pressure up. However, when we removed the connections from the annulus, there was a small amount of pressure. We checked the valve on the annulus several times over a period of 20-25 minutes and some pressure was still present.

- 4/7/88 Great Guns ran line to 275' and perforated 5½" casing and fiberglass tubing at 273' - 2 shots.
- 4/12/88 Pumped through the annulus with 100 sx cement, shut in for 20 minutes and pumped 100 sx cement with hulls mixed in and shut in 30 minutes. Pumped in an additional 50 sx cement with hulls mixed in. The valve on the 5½" was open during the pumping of the first 220 sx of cement. The cement circulated at that point, closed the valve and pumped the remaining 30 sx of cement at 150 psi. There was not any shut in pressure on the pump gauge, however after both valves were cleared with water and opened after ten minutes, a small amount of pressure was present. In 20 minutes, the 5½" and fiberglass tubing was on vacuum and annulus still had pressure.
- 4/15/88 Ran measuring line to 110' on 5½" and fiberglass tubing. Filled with 5½ sx cement; ran line in annulus to 15' and filled with 1½ sx cement.

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Tenneco Oil  
Exploration and Production

15.185.12465.0000

Lease & Well No. Walters #2 SWD

Location NW SW SW 20-215-12W

Field Mueller

County & State Stafford, Kansas

Elevation 186.5' (GL) ?  
KB

Comp. 10-418 SWD

Well History/Treatments

- 10-48 A/5000 gal
- 1951? Sidetracked & deepened
- 6-60 C/O to 4100' Bailed FeS  
A/2000 gal Diesel in annulus  
Prior to w/o - tbg leaks
- 1-66 A/1000 gal
- 2-66 A/1000 gal
- 3-66 C/O to TD, Bail hole clean,  
A/1000 gal Diesel in annulus
- 11-67 C/O to TD - bed tbg + FeS
- 3-68 Ran csg scraper several times, lots  
of FeS buildup on csg. Bail clean  
Run 3 1/2 Fiberglass tbg open ended to  
3575' (120 str) Diesel in annulus
- 1-72 A/500 gal 15% Fe
- 1-74 A/500 gal 28% Fe
- 8-78 A/1000 gal 15% Fe
- 10-83 A/500 gal 15% Fe

630'  
Anti-rodent  
(lost)

8 5/8" @ 300 F. w/ 200 SX.

15 1/2" Fiberglass tbg  
upset like approx 11.5"

1100

Hutchinson Salt

1500

bottom of tbg 3575'

Top of NR6

- 3652-60 A/2000 gal - wtr  
Sg 2 w/50 SX 3652-60  
Sg 2 w/50 SX 3656-60
- 3683-87 Sg 2 w/50 SX
- 3691-3700 Sg 2 w/50 SX

Csg  
Window  
3684-94'

PBTD

4 3/4" hole

Arbuckle

5 1/2 140 15 1/2" @ 3750' w/ 200 S  
Prepared by TRR

Date July 5, 1984

3 1/2" Linger, not cemented  
(pulsar)

TD 4100'

TD 3995'

This is a wellbore diagram of the Lucy Walters SWD. The injection tbg is 3 1/2" fiberglass which was purchased in 1968 @ specially made couplings (4.5500) to run in the Lucy Walters SWD (5 1/2" casing) open-ended. Assuming 14" casing the clearance is .1685".

TENNECO attempted on 7/66 to pass an MIT. This was done by displacing the annular saltwater with gasoline in an attempt to show positive pressure on the annulus and therefore casing integrity. They were unsuccessful. An echometer shot at that time indicated the fluid level to be 300' from surface. Assuming there was not a hole in the tbg or csg this would indicate the standing fluid level for Arbutle water to be approx. 700' from surface. The well has a history of severe iron sulfide buildup and it is therefore highly probable that iron sulfide buildup exists in the annulus from 700' down. The well file indicates the only FES treatments were periodic acid jobs to treat the formation.

Assuming the tbg could be pulled out ~~out~~ without having to fish a piece at a time, the cost to repair this well could range from \$20,000 to \$35,000 depending on the existence and extent of a casing leak.

If an extended fishing job for the fiberglass tbg is involved these costs could easily double.

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700 # hulls down 8-5/8" csg. Pumped 30 sx of same cement down 5-1/2" csg. Ran a measuring line & found a soft bottom at 287'. Ran a wireline in 5-1/2" csg. Found TOC at 275'. Pressured on 5-1/2" to 100 psi. Held for 15 min. Pumped in 8-5/8" at 1-1/2 BPM and 50 psi. Pumped down 8-5/8" csg. w/250 sx of 50/50 poz + 3% CC + 450# hulls. Circ. out 5-1/2 w/220 sx pumped, closed 5-1/2" csg. in. Pumped in remainder of cement. Max pressure 150 psi. 5-1/2 on vacuum after 20 min.

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