

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form O-103
Revised 10-1-77

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEX OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT TO DRILL FORM O-101 FOR SUCH PROPOSALS.)

1. OIL ☐ GAS ☐ OTHER: SWD	7. Unit Agreement Name
2. Name of Operator Santa Fe Energy Company	8. Form or Lease Name SFPRR
3. Address of Operator 500 W. Illinois, Suite 500, Midland, TX 79701	9. Well No. #6 SWD
4. Location of Well UNIT LETTER D 519 FEET FROM THE North 801 FEET FROM THE West 33 LINE, SECTION TOWNSHIP 9S RANGE 37E NMPM.	10. Field and Pool, or Wildcat W. Sawyer (San Andres)
15. Elevation (Show whether DF, RT, GR, etc.) GR 3968' KB 11' AGL	12. County Lea

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOBS ☐
OTHER ☐

17. 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.

Problem: Well has two unrepairable holes through the internally plastic coated tubing @ 3580-90' & 3850-60'. Because the tbg is plastic coated, running and setting a CIBP inside the tbg is not feasible.

Procedure:

1. Contact NMOCD @ Hobbs, NM, 505/393-6161, Jerry Sexton.
2. Set 1.71" OD ball check cmt retainers at 4000' & 3000'.
3. Rig up Halliburton & bull head down tubing @ 1/2 to 1 BPM with 200 gals FW w/5 gals Howco suds, 200 gals fresh water, 200 gals xylene, 200 gals fresh water, 200 gals 15% HCl, 200 gals FW, and 700 sacks Class H cement with 18% NaCl and 0.6% Halad 4.
4. Displace cement to top of the tubing at the surface and shut-in well for one week.
5. Remove wellhead, cut off casing and tubing five feet below ground level.
6. Erect permanent P&A marker.

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

SIGNED Pat Gaume TITLE Sr. Production Engineer DATE 2/6/85

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE MAR - 4 1985

CONDITIONS OF APPROVAL, IF ANY:

Procedure to Plug & Abandon
SFPRR No. 6 SWD
AFE No. 69-5
February 27, 1985

PROBLEM:

Well has two unrepairable holes thru the internally plastic coated tubing @ 3580-90' and 3850-60'.

OBJECTIVE:

P&A the well

DIRECTIONS:

From Tatum, NM go east on US 380 about 6 miles & turn north on St Rd 125. Note a roadside park on the NE corner of the US 380/State Rd 125 intersection. Go north on State Rd 125 about 18 1/2 miles & turn left through an orange painted cattle guard w/SFEC sign. Note bullet hole in the SFEC sign & a high hill about 1 1/2 miles off to the left. Go about one mile and turn right on the 1st caliche road past the SFEC tank battery on the right side of the road. Follow road 2 locations to the wellsite.

WELL DATA:

Reference Elev: KB 3979' or 11' AGL
Casing: 4 1/2" 10.5# @ 5000'
Tubing: 2 3/8" 4.7# internally plastic coated cemented inside 4 1/2" casing from 4894' to surface. Bottom of tubing is 4903'.
Bridge off inside tubing @ 4873'.
Packer: Guiberson packer cemented in hole (on tbg) @ 4894'
Tbg Perfs: 2 holes @ 4890'± (to cmt tbg inside csg)
Csg Perfs: 3490-3570', 1 SPF, cmt squeezed
3630', 4 holes, cmt squeezed
4930-58' & 63-76', 2 SPF, cmt squeezed

DISCUSSION:

2 3/8" tbg is IPC & running a CIBP inside tbg is not feasible. Past cmt squeeze attempts hold before drill out but do not hold after drill out. To plug the well with a slightly expanding cement is desired to minimize the chance of a micro annulus inside the tbg. To bull head a large volume of cmt away and fill up the tbg is the fastest, simplest, cheapest, & most likely to succeed P&A procedure. Ball check cmt retainers will be run to provide pressure & cross flow control.

PJL

PRESENT STATUS:

Well is SI 12/14/84. ISIP 1790 psi. Present SITP 1740 psi.

PROCEDURE:

1. Contact NMOCD @ Hobbs, NM, 505/393-6161, Jerry Sexton.
2. RU Pengo Wireline w/mast truck & 3000 psi lubricator.
3. RIH w/1.71" OD Pengo Model A ball check cmt retainer and attempt to set retainer at 4000'. (Purpose of this retainer is to stop any possible x-flow from the San Andres zone to the tbg leaks.)
4. If the first cmt retainer can be set deeper than 3480', RIH w/2nd cmt retainer & set @ 3000'. (The purpose of this retainer is for a safety backup to the wellhead master valve or possible failure of the top joint of injection tbg. Neither situation is expected.)
5. RU Halliburton & bullhead down tbg at 1/2 - 1 BPM w/200 gals FW w/5 gals Howco suds, 200 gals FW, 200 gals xylene, 200 gals FW, 200 gals 15% HCl, 200 gals FW & 700 sx Cl H cmt w/18% NaCl & 0.6% Halad 4.
6. Displace cmt to top of tbg at surface & shut-in well for one week.
7. Remove wellhead, cut off csg & tbg 5' below ground level.
8. Erect permanent P&A marker.

Pengo contact: Bill Graham, Midland, 915/561-9428
Halliburton contact: Ricky Rodrigue, Midland, 915/682-4305

Cmt Data:

7.8 lbs salt/sack. Slurry wt. 15.9 ppg, slurry volume 1.22 ft³/sx. 3 hours pumping time @ 5000'. 24 hr compressive strength 4350 psi, 72 hr compressive strength 7110 psi.

Tbg Capacity:

4873' x .1624 gal/ft 791 gals 18.8 bbls 86.7 sx cmt.

PJG:dz *PJG*
DS-129

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MAR -1 1985

6108
INVESTIGATIVE

February 27, 1985

1984

SFPRR No. 6, SWD
Unit D, 519' FNL, 801' FWL
SEc. 33, T-9S, R-37E, NMPM
Lea County, New Mexico
10 miles east & 1 mile south of
Crossroads, New Mexico

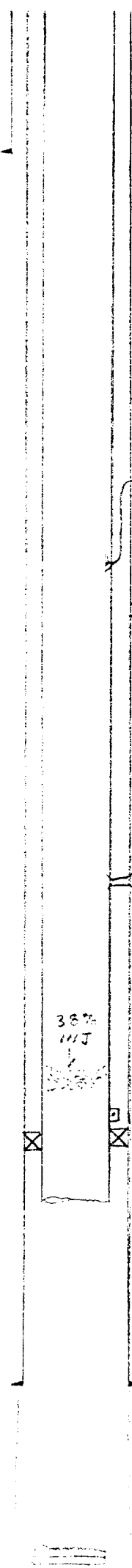
SFEC Well File No. NM 107-133-7
W. Sawyer (San Andres) Pool
Spud 10:45 AM 10-29-70
TD @ 5000' 11-6-70 orig TD
Completed & on pump 11-13-70
1P 12-5-70 33 BO 97 BW 215 MCF
1970 Prod 540 BO 2754 BW 243 MCF
1971 Prod 947 BO 2970 BW 21559 MCF
1972 Prod 350 BO 2450 BW 9465 MCF
1973 Prod 348 BO 3019 BW 5817 MCF
1974 Prod 450 BO 3164 BW 5365 MCF
1975 Prod 142 BO 1242 BW 1797 MCF
Convert to SWD 7/10/75

12/1 & 14/84 Ran tracer & temperature
surveys. Inj. press 1825 psi.
12/14/84 SI well.

Present Status 1-9-85
SITP 1740 psi. Unrepairable tbg
holes @ 3580-90' & 3850-60' taking
15% & 47% of total. Injection tbg
bridge off @ 4873' w/38% of injec-
tion passing down tbg to & thru
the bridge.

Analysis of 12/85 tracer & temp
surveys show:
TOC @ 3020'±, normal temp buildup
from 3050-3550' w/no fluid losses
or movements. Tbg hole @ 3580-90'
w/fluid going up annulus, out old
perfs @ 3550' & channeling down to
3715'. Zones taking fluid are
3590'±, 3660'± & 3690-3715'. Cmt
barrier 3715-3745'. Tbg & csg hole
@ 3850-60' w/fluid charging zone
3745-3860'. Tbg bridge @ 4873'.

2/25/85 Broach wellhead. Run 1.75"
OD ring gauge to 3500'. All OK.
POOH to avoid holes in tbg.



KB @ 3979' or 11' AGL

11" hole to 417'

8 5/8" 20# ST&C @ 417' w/325 sx
reg cmt. Cmt circ.

7 7/8" hole to 5000'

3092' TOC (1975 temp survey)

3490-3570', 1 SPF, acid w/1500 gals
mud acid, pump in tested -
impermeable zone containing salt,
cmt squeezed w/950 sx cmt & 100 bbls
injectrol in 4 attempts, sq failed.
(1975)

3590'± hole

3630' 4 holes, cmt sq w/475 sx 50-50
poz H. TOC 3092' (1975)

3660'±

3690-3715'

3745-3860'

3860' hole

4000' old est TOC (1970)

4873' tbg bridge
Cmt tbg w/250 sx C cmt circ
4890'± 2 tbg holes to circ cmt
4894' Guiberson pkr

4903' bottom of tbg. 2 3/8" 4.7#
J-55 internal plastic coated.

4930-58' & 63-76', 2 SPF, acid w/8250
gals acid in 1970 then cmt sq w/350
sx in 1975

4 1/2" 10.5# K-55 ST&C @ 5000'
w/250 sx 50-50 poz. Est TOC @
4000'

3 3/4" O.H. acid w/5000 gals (1975)

Junk: Alum bull plug & 1' tbg (1975)

TD 5150'