

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

*clst
Op*

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

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

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

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

WELL API NO. 30-015-21551
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

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 Mary K. Knobel
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1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER
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8. Well No. #1

2. Name of Operator Pacific Enterprises Oil Company (USA)
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9. Pool name or Wildcat Carlsbad South (Strawn)
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3. Address of Operator P.O. Box 2500, Casper, Wyoming 82602
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4. Well Location Unit Letter <u>J</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>1980</u> Feet From The <u>East</u> Line Section <u>32</u> Township <u>22⁶</u> Range <u>27E</u> NMPM <u>Eddy</u> County
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10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3162 GR</u>
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11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>
OTHER: _____ <input type="checkbox"/>
SUBSEQUENT REPORT OF:
REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <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.

Pacific Enterprises Oil Company (USA) proposes to plug and abandon the subject well pursuant to the attached procedure. Proposed operations are estimated to commence by October 1, 1991.

** Note Changes*

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

SIGNATURE Michael D. Brown TITLE Operations Engineer DATE _____
 TYPE OR PRINT NAME Michael D. Brown TELEPHONE NO. _____

(This space for State Use)

APPROVED BY [Signature] TITLE Field Rep DATE 9/27/91
 CONDITIONS OF APPROVAL, IF ANY: Notify N.M.O.C.C. in writing and in person.
Plugging

PACIFIC ENTERPRISES OIL COMPANY (USA)

800 Werner Court, Suite 200

P.O. Box 2500

Casper, WY 82602-2500

ABANDONMENT PROCEDURES

MARY K. KNOBEL #1

1980' FSL AND 1980' FEL
NWSE SECTION 32, T22N, R27E
EDDY COUNTY, NEW MEXICO

Objective:

Plug and abandon

Pertinent Data:

W. I. - 100%	GL: 3,162'
R. I. - 74.79%	KB: 3,178'
PP# - 72146	TD: 12,003'
AFE# - 800	PBTD: 11,235'
API# - 30-015-21551	

Subsurface Data:

Surface: 13-3/8", 48 #/ft, H-40 at 390'. Cement with 450 sx Class "C", circulate to surface.

Intermediate: 9-5/8", mixed grades at 5,597'. Cement with 1000 sx Lite, tail in with 400 sx Class "C", 10% salt. TOC estimated at 1,500'.

Production: 4-1/2", 11.6 #/ft, mixed grades at 11,990'. Cement with 1000 sx Class "H". TOC at 8,200', wireline study.

Tubing: 2-3/8", 4.7 #/ft, N-80 to 10,440' (Burst=11,200 psi)

Packers: Model "R" at 10,448' (12K# compression)
Lok-Set with on/off tool at 10,481'.
Guiberson Uni VI with on/off tool at 11,253' (stuck)

Nipples: 1.87", Baker "F" at 10,440' (Model "R")
1.78" Baker "R" at 10,501' (Lok-Set)
1.78" "F" with plug in place at 11,253' (Uni VI)

Perforations:

Strawn: 10,570' to 10,576', 4" casing guns, 2 SPF, 13 holes

Lower Atoka: 11,080' to 11,086', 4" casing guns, 2 SPF, 13 holes

Morrow: 11,339' to 11,925' gross, through tubing, isolated with Uni VI packer and plug, 2 sx 20/40 sand on plug.

Procedures:

- 1) MI & RU workover rig. Blow well down. Load tubing and casing with 2% KCl water. ND tree and NU BOP. Release Model "R" packer at 10,448'. POOH with tubing and LD packer.
- 2) PU and RIH with retrieving head on 2-3/8" tubing. Latch on/off tool and Lok-Set packer at 10,481'. Release packer. POOH with tubing and LD packer and tools.
- 3) RU wireline and set CIBP above Atoka perforations at $\pm 11,050'$. RIH with dump bailer and dump 35' of cement on top of CIBP. Set second CIBP above Strawn perforations at $\pm 10,540'$. RIH with dump bailer and dump 35' of cement on CIBP. RD wireline. (Run CCL strip and set CIBP to avoid collars.)
- 4) RIH with tubing open ended to top of cement. Circulate wellbore clean with 9 #/gal gelled fresh water. POOH with tubing and stand back 5,800'.
- 5) RU wireline and cut off 4-1/2" production casing at 5,625'. POOH and LD casing. RIH with tubing open ended to top of 4-1/2" stub. Spot 150' balanced cement plug in and out of 4-1/2" stub and across the base of the 9-5/8" casing. POOH with tubing standing back 400'.
- 6) Perforate 9-5/8" intermediate with 4 holes at 400'. Set cement retainer on wireline at 375'. RD wireline. PU and RIH with stinger on 2-3/8" tubing. Sting into retainer and pump 50 sx Class "G" cement across 13-3/8" shoe through squeeze holes. POOH and LD tubing. Estimate TOC in 9-5/8" x 13-3/8" annulus at 250'.
- 7) Cut off casing strings and casinghead 4' below surface. Spot 10 sx surface plug. RD and release rig.
- 8) Install dry hole marker, 4" in diameter extending 4' above the ground level. The marker shall have welded onto it the following:

Pacific Enterprises Oil Company (USA)
Mary K. Knobel #1
NWSE Section 32, T22N, R27W

Mary K. Knobel #1
Plug and Abandonment
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10) Clean up and restore location.

NOTIFY: Mike Williams, Artesia District Office, State of New Mexico
Oil Conservation Division, Phone: (505)748-1283, at least 24
hours prior to initiating plugging operations.

Prepared By: Michael D Brown Date: 9-9-91
M. D. Brown
Operations Engineer

Reviewed By: B. M. Allen Date: 9/9/91
B. M. Allen
Production Superintendent

Reviewed By: C. C. Parsons Date: 9/9/91
C. C. Parsons
Production Engineering Manager

Approved By: Thomas E. Walton Date: 9-9-91
Thomas E. Walton
Regional Manager - Operations

MDB:tlm

Current Wellbore

PACIFIC ENTERPRISES OIL COMPANY (USA)
800 Werner Court, Suite 200
P.O. Box 2500
Casper, WY 82602-2500

Mary K. Knobel
Sec. 32 - T22S-R27E
1980' FSH, 1980 FEL
Carlsbad South Field
Eddy County, N.M.

3162' GR
3178' KB

13 3/8" 48#
H-40 @ 390'
circ. to str.

9 5/8" mixed
@ 5597'

T.O.C.
@ 8200'

2 3/8" 4.7# N-80 tbg. to str.

1.87" "F" nipple @ 10,440'
Model "R" pkr @ 10,448' 12K# comp.

on/off Tool + 1.78" "R" nipple @ 10,501'
lock-set pkr @ 10,481'

strawn: 10,570-576 2 SPF 4"

lower Atoka: 11,050-056 2 SPF 4"

Acidize
w/ 7500g 15%
gelled DEFE
w/ 500 SCF/Bbl
N₂

PBTD @
11,235'

Chemical cut 2 3/8" tbg above pkr. @ 11,250'
Guiberson Uni II pkr w/ on/off tool w/ plug in
place @ 11,253', 2 sxs 20/40 on pkr.

Morrow Perfs: 11,339' - 11,925' gross

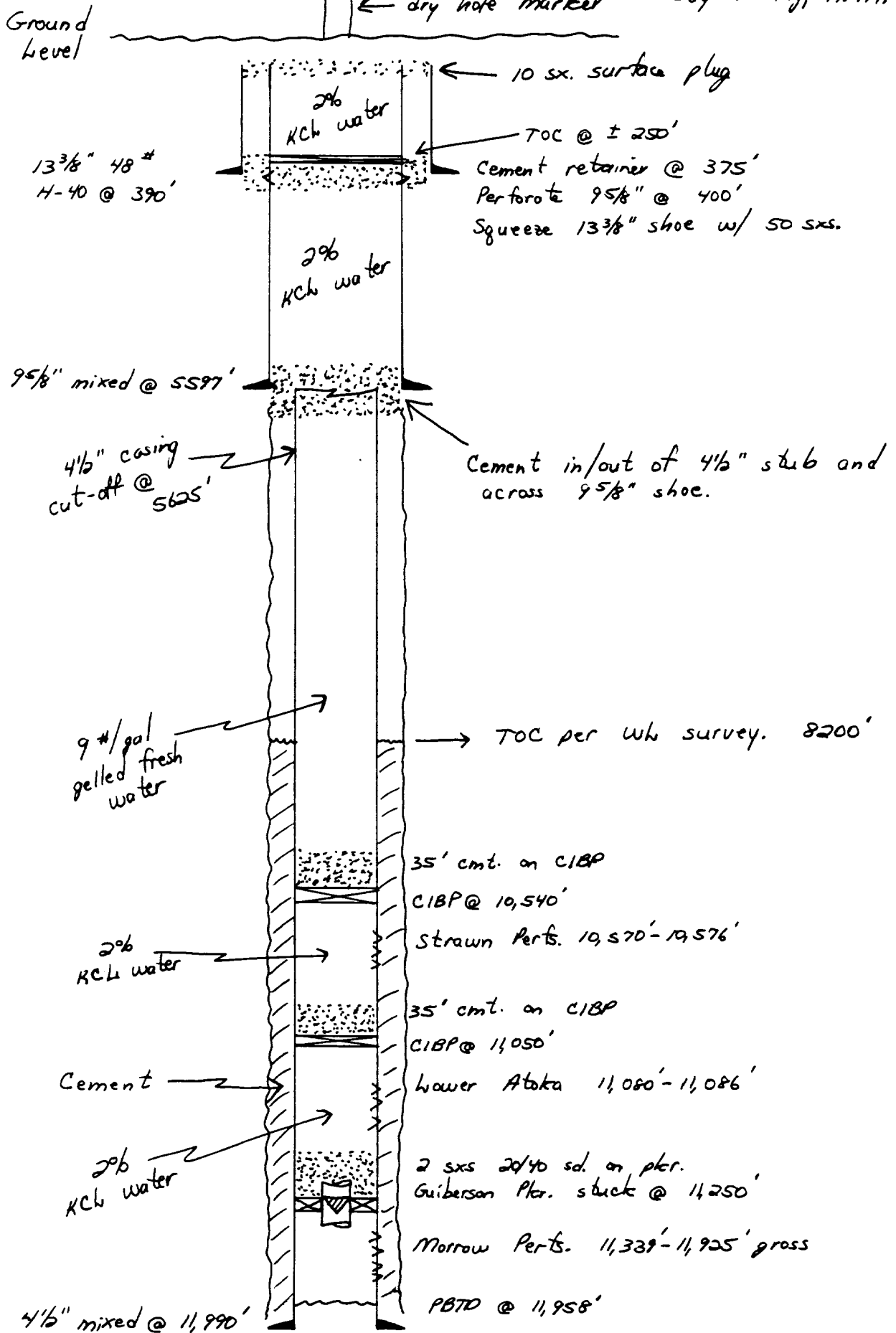
4 1/2" mixed
@ 11,990'

PBTD @ 11,958'

TD 12,003'

AFTER PLUGGING

Mary K. Knobel
Sec. 32-T225-R27E
Eddy County, N. M.



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800 Werner Court, Suite 200
P.O. Box 2500
Casper, WY 82602-2500

