



P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

March 29, 1996

Mr. David Catanach
Oil Conservation Division - State of New Mexico
2040 S. Pacheco
Santa Fe, New Mexico 87505

APR 1 1996

Re: Federal "C" Well No. 1 - SWD Permit

David,

Presented below and attached graphically for your consideration and approval is Marathon's proposal for mechanical integrity testing of the proposed salt water disposal well, Federal "C" Well No. 1. (This proposal is based upon conversations between yourself and Marathon Oil Company.)

Bond Log:	Initial Completion
RA Tracer Survey:	3 months after completion
RA Tracer Survey:	Year 1 and every other year thereafter.
Casing Inspection Log:	Year 1 and every other year thereafter.
MIT Test (Liner/Tubing):	Year 2 and every other year thereafter.
MIT Test (Casing/Tubing):	Year 5 and every five years thereafter.

In addition to the proposed testing schedule, a revised wellbore schematic is attached. The revised schematic shows the 4-1/2" liner set at \pm 7600 feet as opposed to the original setting depth of 7250 feet. The schematic also illustrates recent work that was completed on the well to isolate and cement squeeze a casing leak at 5882 to 5898 feet.

Should you have any questions or comments concerning the proposal or the revised schematic, please feel free to contact either Don Hall (915-687-8348) or Harold Garrard (915-687-8448). Thank you for your consideration of this proposal.

Sincerely,

R.A. Biernbaum ,

A handwritten signature in cursive script, appearing to read 'R.A. Biernbaum'.

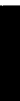



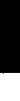

























































Project Manager
Indian Basin Asset Team

Attachments

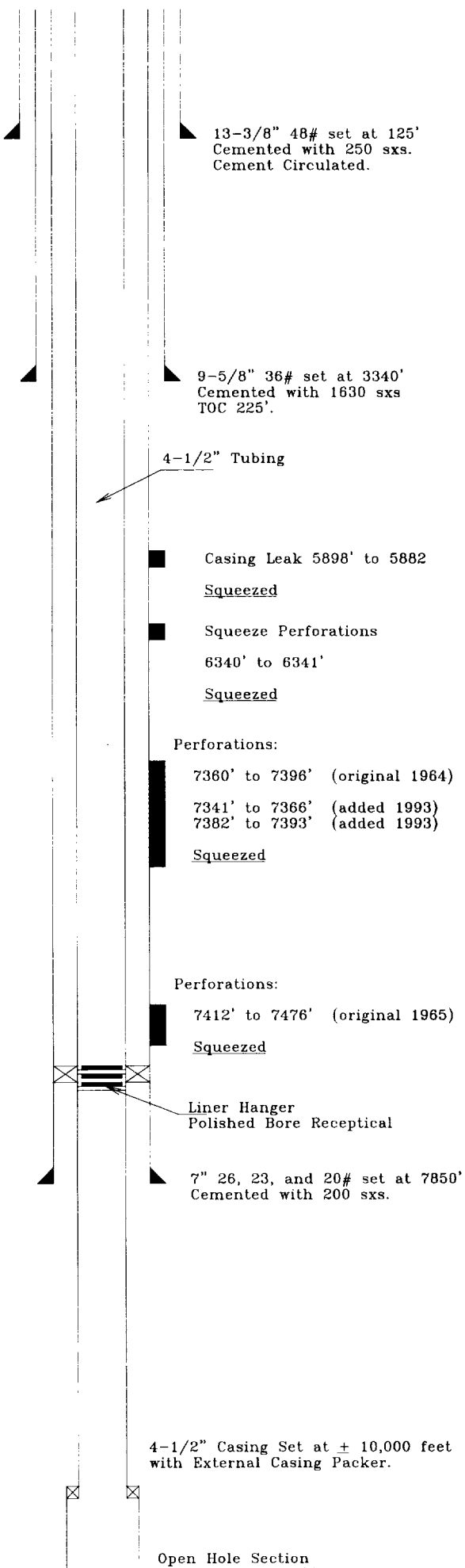
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FEDERAL "C" WELL NO. 1

PROPOSED INTEGRITY TESTING SCHEDULE

	INITIAL	Mo	Year														
		3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Bond Log																	
Gamma Ray / Tracer Survey																	
Casing Inspection Log																	
MIT Test - Liner and Tubing																	
MIT Test - Casing / Tubing Annulus																	

PROPOSED SWD CONVERSION



WELL NAME:
Federal "C" Well No. 1

LOCATION:
1650' FNL & 1650' FWL
Section 35, T-21-S, R-23-E
Eddy County, NM

ELEVATIONS:
GL: 3961'
KB: 3974'

SURFACE CASING
13-3/8" 48# set at 125'
Cemented with 250 sxs.
Cement circulated

INTERMEDIATE CASING
9-5/8" 36# set at 3340'
Cemented with 1630 sxs.
Cement circulated. TOC 225'

LONG STRING
7" 26, 23, & 20# set at 7850'
Cemented with 200 sxs.

P R O P O S E D

LINER
4-1/2" 11.6# set from 7600' to 10,000'.
Cement with 300 sxs.
Polished-Bore Receptical at 7600'.
External Casing Packer and
Cement Stage Tool at 10,000'.

TUBING
4-1/2" tubing to 7600'.
Lined with "Duoline-20"
Fiberglass-Epoxy Lining

INJECTION INTERVAL
Open Hole 10,000 ft to 11,00 ft
Hole Size: 6-1/8"

PERFORATIONS
Squeezed
7360' to 7396'
7341' to 7366'
7382' to 7393'
7412' to 7476'

CASING LEAK
Isolated Casing Leak between 5898' and 5882'.
Perforated 6340' to 6341'.
Cemented squeezed perforations 6340' to 6341' with
100 sxs cement.
Pumped 985 sxs cement through casing leak at 5898'
to 5882'. Circulated cement to surface between 9-5/8"
and 7" casing annulus.



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626
FAX No. 915/687-8431

DATE 25 SEPTEMBER 95

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME DAVID CATANACH

COMPANY NAME NEW MEXICO OIL CONSERVATION DIVISION

LOCATION SANTA FE, NEW MEXICO

FROM:

NAME & EXTENSION HAROLD GARRARD

LOCATION MIDLAND, TX

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET) 2

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL BACK ASAP

PHONE 915-687-8448

COMMENTS DAVID - PROPOSAL FOR SWD WELL.

AS WE BRIEFLY DISCUSSED BEFORE WE WILL BE
DEEPENING THIS WELL TO THE DEVONIAN AT \pm 10,000 - 11,000'
WE WILL BE DRILLING THROUGH THE MORROW WHICH
IS PRODUCTIVE IN SOME AREAS OF THE FIELD. OUR
PROPOSAL IS TO SET A 4 1/2" LINER TO THE TOP OF
THE DEVONIAN AND ISOLATE THE MORROW AND EXISTING
UPPER PENN PERFS BEHIND THE CASING / CEMENT.
MELCHANICAL INTEGRITY CAN BE CHECK BY SETTING A
THROUGH TUBING PACKER TO TEST 4 1/2" LINER INTEGRITY
BELOW THE BBL POLISH BORE RECEPTICAL.

HAROLD

PROPOSED SWD CONVERSION

WELL NAME:

Federal "C" Well No. 1

LOCATION:

1650' FNL & 1650' FWL
Section 35, T-21-S, R-23-E
Eddy County, NM

ELEVATIONS:

GL: 3961'
KB: 3974'

SURFACE CASING

13-3/8" 48# set at 125'
Cemented with 250 sxs.
Cement circulated

INTERMEDIATE CASING

9-5/8" 36# set at 3340'
Cemented with 1630 sxs.
Cement circulated. TOC 225'

LONG STRING

7" 26, 23, & 20# set at 7850'
Cemented with 200 sxs.

P R O P O S E D

LINER

4-1/2" 11.6# set from 7250' to 10,000'.
Cement with 300 sxs.
Polished-Bore Receptical at 7250'.
External Casing Packer and
Cement Stage Tool at 10,000'.

TUBING

4-1/2" tubing to 7250'.
Lined with "Duoline-20"
Fiberglass-Epoxy Lining

INJECTION INTERVAL

Open Hole 10,000 ft to 11,00 ft
Hole Size: 6-1/8"

PERFORATIONS

Propose to cover perforations:
7360' to 7396'
7341' to 7366'
7382' to 7393'
7412' to 7476'
with 4-1/2" liner and cement.

13-3/8" 48# set at 125'
Cemented with 250 sxs.
Cement Circulated.

9-5/8" 36# set at 3340'
Cemented with 1630 sxs
TOC 225'.

4-1/2" Tubing

Liner Hanger
Polished Bore Receptical

Perforations:

7360' to 7396' (original 1964)
7341' to 7366' (added 1993)
7382' to 7393' (added 1993)

Perforations:

7412' to 7476' (original 1965)

7" 26, 23, and 20# set at 7850'
Cemented with 200 sxs.

4-1/2" Casing Set at \pm 10,000 feet
with External Casing Packer.

Open Hole Section
10,000 ft to 11,000 ft