

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 27, 1969

C
Continental Oil Company
P. O. Box 460
Hobbs, New Mexico

Gentlemen:

O
Enclosed herewith please find Administrative
Order WFX No. 317 authorizing conversion of seven wells
to water injection wells in your MCA Unit Water Flood
Project in the Maljamar Pool, Lea County, New Mexico

P
Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

Y
ALP/JEK/og

cc: Oil Conservation Commission - Hobbs
Oil & Gas Engineering Committee - Hobbs

APPLICATION OF CONTINENTAL
OIL COMPANY TO EXPAND ITS MCA
UNIT WATER FLOOD PROJECT IN THE
MALJAMAR POOL IN LEA COUNTY,
NEW MEXICO.

ORDER WFX NO. 317

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Order No. R-2403, Continental Oil Company has made application to the Commission on May 12, 1969, for permission to expand its MCA Unit Water Flood Project in the Maljamar Pool, Lea County, New Mexico.

NOW, on this 27th day of May, 1969, the Secretary-Director finds:

1. That application has been filed in due form.
2. That satisfactory information has been provided that all offset operators have been duly notified of the application.
3. That no objection has been received within the waiting period as prescribed by Order No. R-2403.
4. That the proposed injection wells are eligible for conversion to water injection under the terms of Order No. R-2403.
5. That the proposed expansion of the above-referenced water flood project will not cause waste nor impair correlative rights.
6. That the application should be approved.

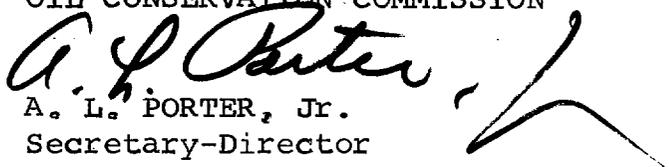
IT IS THEREFORE ORDERED:

That the applicant, Continental Oil Company, be and the same is hereby authorized to inject water into the Grayburg-San Andres formation through the following described wells for purposes of secondary recovery, to wit:

Baish "B" Well No. 3 located in Unit B of Section 22,
Miller "BX" Well No. 1 located in Unit P of Section 14,
Miller "BX" Well No. 3 located in Unit H of Section 14,
Miller "BX" Well No. 6 located in Unit J of Section 14,
Miller "B" Well No. 2 located in Unit B of Section 23,
Taylor Well No. 2 located in Unit L of Section 14
and Taylor Well No. 3 located in Unit N of Section
14, all in Township 17 South, Range 32 East, NMPM.

PROVIDED HOWEVER, That the applicant shall inject water through tubing with packers set just above the injection intervals of said wells.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


A. L. PORTER, Jr.
Secretary-Director

SEAL

C O N T I N E N T A L O I L C O M P A N Y

P. O. Box 460
Robbs, New Mexico

12 11 8 37

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico

WFA-317

Attention of Mr. A. L. Porter, Jr.,
Secretary-Director

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CONTINENTAL OIL COMPANY REQUEST FOR
ADMINISTRATIVE APPROVAL TO EXPAND THE
MCA UNIT SECONDARY RECOVERY PROJECT
BY ADDING SEVEN WATER INJECTION WELLS
IN SECTIONS 14, 22 and 23, TOWNSHIP
17 SOUTH, RANGE 32 EAST, LEA COUNTY,
NEW MEXICO

Gentlemen:

The New Mexico Oil Conservation Commission Order R-2403, dated December 31, 1962, approved the Continental Oil Company-operated MCA Unit Central secondary recovery project beginning with the injection of water into six (6) Maljamar (Grayburg-San Andres) Pool wells, and set forth procedures for obtaining administrative approval for expansion of the secondary recovery project.

The Pearl waterflood project was authorized by Order Numbers R-841 (Well No. 197) and R-1075 (Well No. 195) and has been expanded as follows:

<u>WFX No.</u>	<u>Date</u>	<u>Wells</u>
216	7-23-65	200
259	4-11-67	135
267	8-27-67	127, 131, 133, 137, 139, 190, 194, 198

The Central waterflood project has been expanded in five stages, to date, under the following administrative orders:

<u>WFX No.</u>	<u>Date</u>	<u>Number of Wells</u>	<u>Sections</u>
197	4-15-65	13	16, 21, 28
234	4-24-66	16	20, 29
253	3-15-67	16	19, 30
281	1-15-68	17	16, 17, 18, 33
292	8-12-68	32	22, 23, 26, 27, 33, 34

all in T17S, R32E, Lea County, New Mexico. In addition, Order No. WFX-306 authorized two injection wells in Sections 15 and 16, T17S, R32E.

Continental Oil Company, as operator of the MCA Unit, and owner of leases within the MCA boundary but outside the participating area respectfully requests administrative approval under the provisions of Order No. R-2403 to further expand the MCA Unit secondary recovery project to include seven additional water injection wells in Sections 14, 22, and 23, Township 17 South, Range 32 East, Lea County, New Mexico. Under this proposed expansion, it is planned to convert the following wells to water injection:

<u>Well No.</u>	<u>Location</u>
Baish "B" No. 3	Unit B Section 22
Miller "BX" No. 1	Unit P Section 14
Miller "BX" No. 3	Unit H Section 14
Miller "BX" No. 6	Unit J Section 14
Miller "B" No. 2	Unit B Section 23 (to be drilled)
Taylor No. 2	Unit L Section 14
Taylor No. 3	Unit N Section 14

In support of this request and as required by Rule 701-B, the following exhibits are attached:

1. A plat showing the location of the proposed injection wells and of all wells within a radius of two miles from the injection wells, the formations from which said wells are producing or have produced, and lease ownership within said two mile radius.
2. Logs of the proposed injection wells.
3. A diagrammatic sketch of each proposed injection well, including casing setting depths, cement tops, producing interval, and proposed tubing and packer setting depths.
4. A table summarizing the water injection well data shown on the diagrammatic sketches.

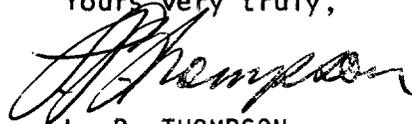
Anticipated total water injection rates into the proposed seven injection wells described above is 2100 BWPD, for a total of 77,700 BWPD in the eighteen section area. Exact volumes to be injected in each well will be dependent upon net producing interval open and injection pressures encountered.

Application
Page 3

Water for the proposed expansion will be obtained from the MCA Unit Water Leases now furnishing water for the present secondary recovery project.

A copy of this application with attached data is being forwarded by certified mail to the offset operators.

Yours very truly,



L. P. THOMPSON

VTL-JS

cc: NMOCC-Hobbs JWK JJB RLA
USGS-Roswell

Attach

Working Interest Owners per list
w/0 attachments

BY CERTIFIED MAIL:

Great Western Drilling Company
P. O. Box 1659
Midland, Texas 79701

Sinclair Oil Corporation
P. O. Box 1920
Hobbs, New Mexico 88240

Texaco, Inc.
P. O. Box 728
Hobbs, New Mexico

Standard Oil Company of Texas
P. O. Box 1660
Midland, Texas 79701

M C A UNIT
WORKING INTEREST OWNERS

Mr. J. C. McClure
Cities Service Oil Company
P. O. Box 4906
Midland, Texas 79701

Mr. R. M. Anderson
Sinclair Oil Corporation
P. O. Box 1470
Midland, Texas 79702

Mr. H. F. Deffenbaugh
Sinclair Oil Corporation
P. O. Box 521
Tulsa, Oklahoma 74102

Virginia Sears & Mary Jo
Vandiver, Coexecutrices
700 Hermosa Drive
Artesia, New Mexico 88210

Mr. Jack B. Shaw
for Emily Katherine Flint Boyd
Rosemary Flint
Virginia Woods Shaw
P. O. Box 517
Artesia, New Mexico 88210

Fair Oil Company
Richard L. Ray, Trustee
P. O. Box 689
Tyler, Texas 75701

Mr. J. P. Pierce
3621 Westcliff Road South
Ft. Worth, Texas 76109

Cockburn Trusts
P. O. Box 241
Dallas, Texas 75200

Mrs. Addie P. Smith
2506 Bridwell Street
Wichita Falls, Texas 76301

Mrs. Jewell Smith
3109 Rufe Snow Drive
Apt. C
Ft. Worth, Texas 76118

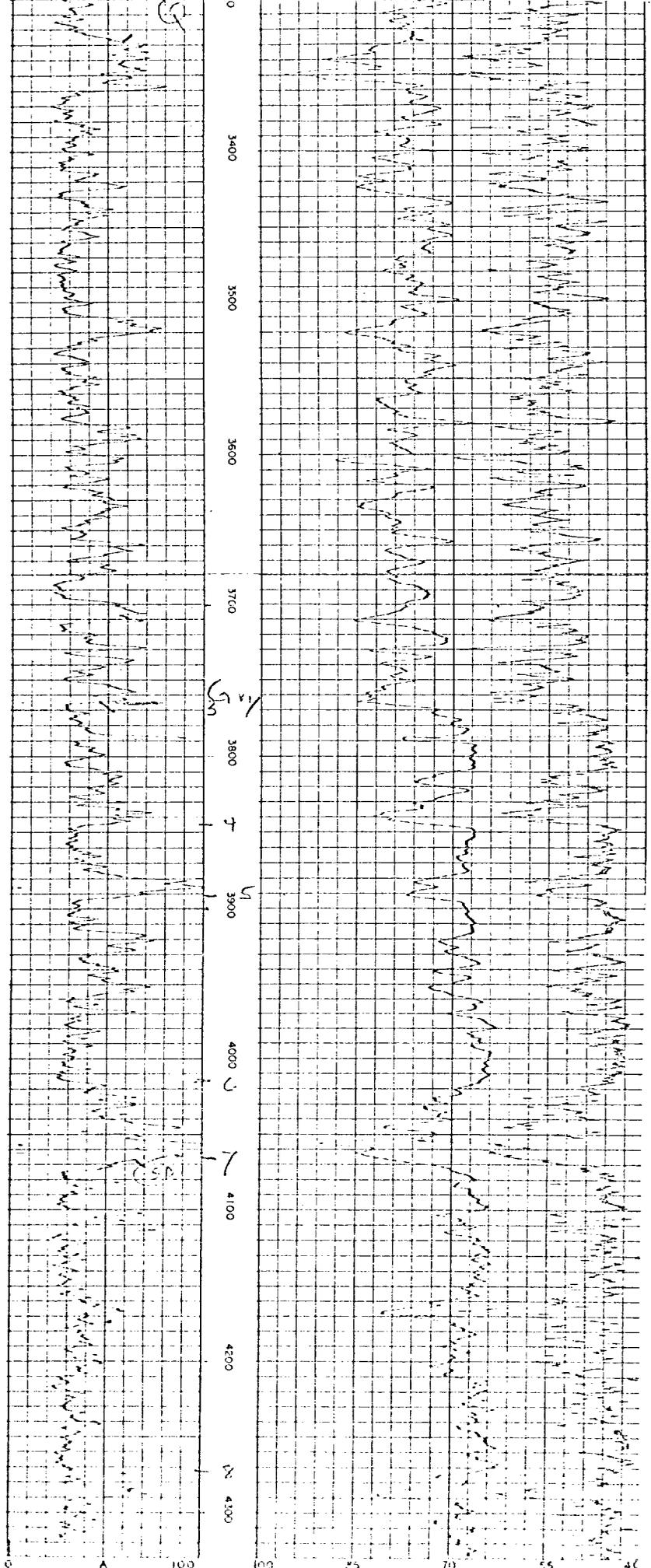
Mrs. Mary K. Fowles
2415 Larkin
San Francisco, Calif. 94109

Sally Seeber
6921 E. Hawthorne
Tuscon, Arizona 85700

David E. Runyan
Hope, New Mexico 88250

14-17-32 ✓

Acoustic-Gamma Log	
FILE NO.	COMPANY CONTINENTAL OIL COMPANY
	WELL MILLER "BX" # 6
	FIELD MAL JAMAR
	COUNTY LEA STATE NEW MEXICO
LOCATION:	1980' FSL, 1990' FEL
	SEC 14 TWP 17-S RGE 32-E
Permanent Datum B. H. F. Elev. 4054	KB Excessions
Log Measured from K. S. 11 Ft. Above Permanent Datum	DF 727
Drilling Measured from X. B.	GL



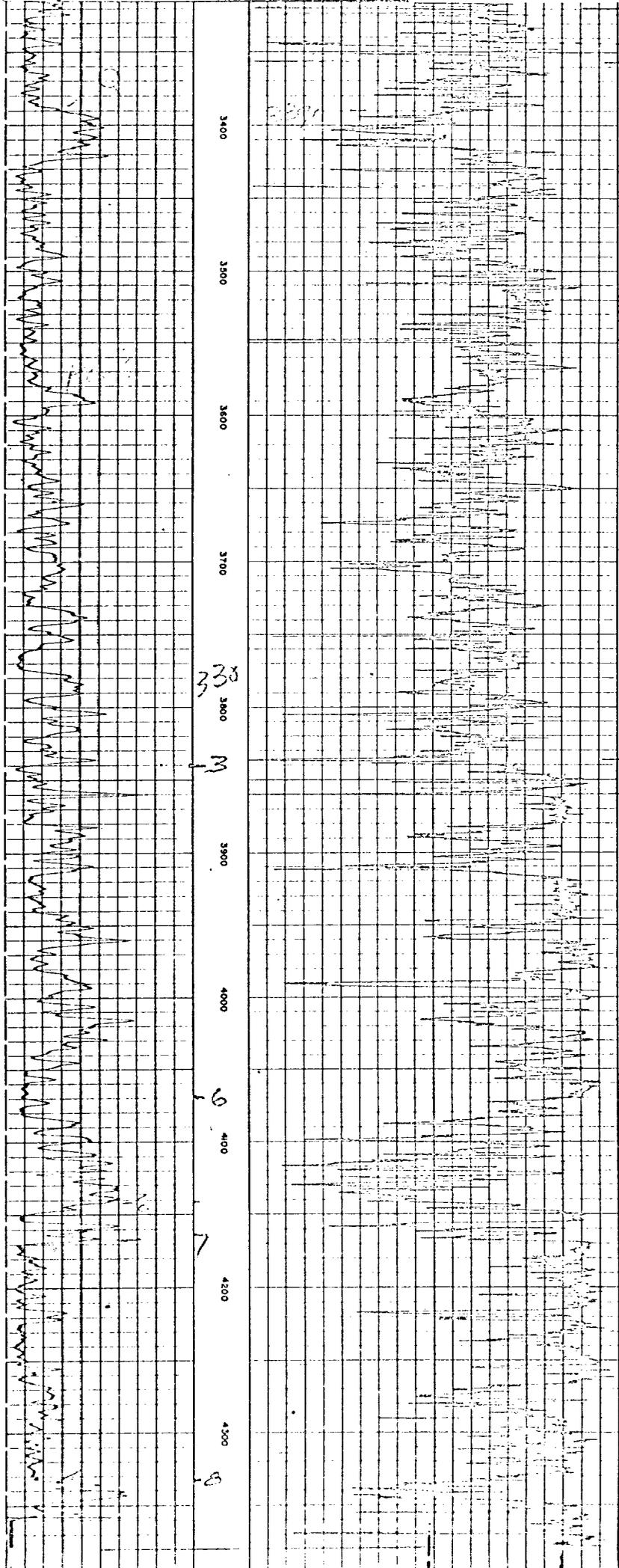
SCHLUMBERGER WELL SURVEILING CORPORATION



COUNTY LEA
 FIELD MALJAMAR
 LOCATION MILLER "BX" #3
 WELL #3
 COMPANY CONTINENTAL OIL CO

COMPANY CONTINENTAL OIL COMPANY
 WELL MILLER "BX" #3
 FIELD MALJAMAR
 LOCATION SEC. 14-175-32E
 COUNTY LEA
 STATE NEW MEXICO

Other Surveys
 LATEROLOG-J
 Location of Well
 1980' FNL
 660' FEL
 Elevation: K.B. 4101
 D.F. 4100
 or G.L. 4090

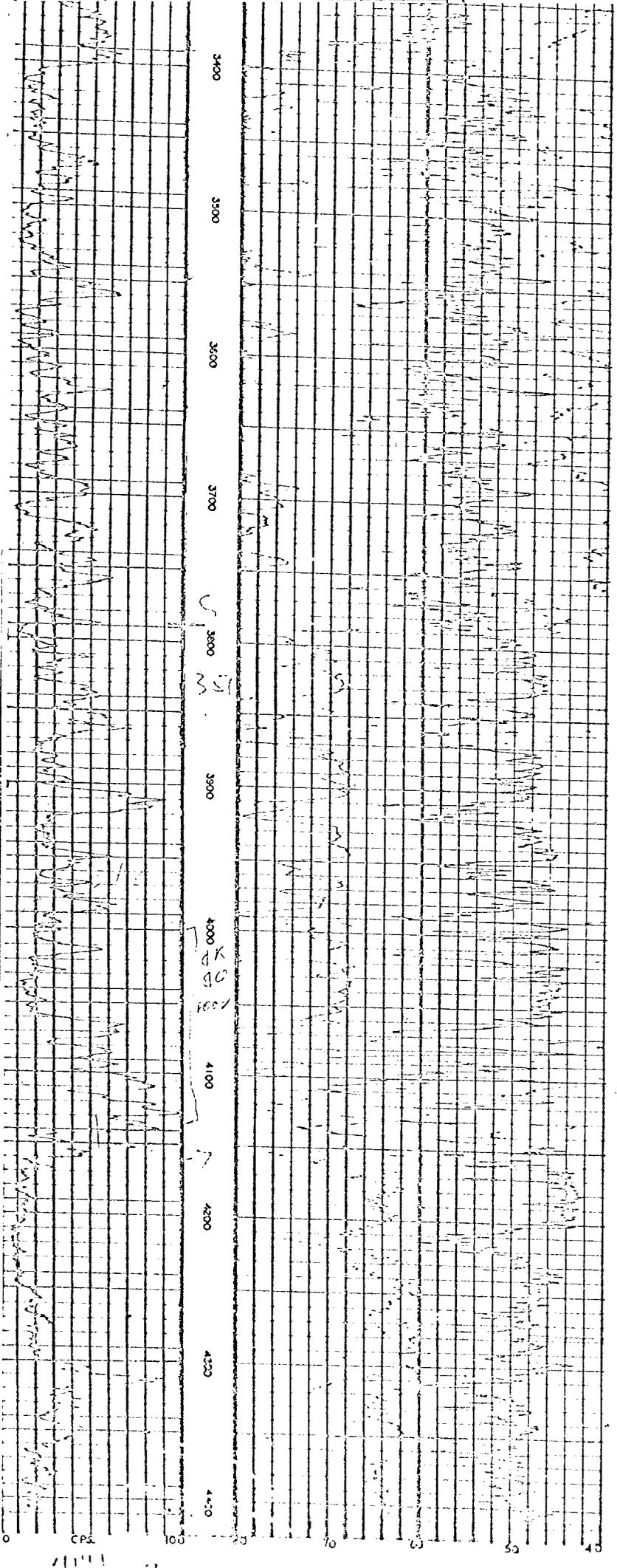




Acoustic-Gamma Log

FILE NO.	COMPANY	CONTINENTAL OIL COMPANY	
	WELL	MILLER "BX" # 1	
	FIELD	MALJAVAR	
	COUNTY	LEA	STATE NEW MEXICO
	LOCATION:	660' FSL, 660' FEL	Other Services LL-7
	SEC	14	TWP. 17-S RGE 32-E
Permanent Datum	GROUND LEVEL	Elev.	4074
Log Measured from	KB	11	ft. Above Permanent Datum
Drilling Measured from	KB		
			Elevations: KB 4085 DF 4084 GL 4074

LS



1111 27 12

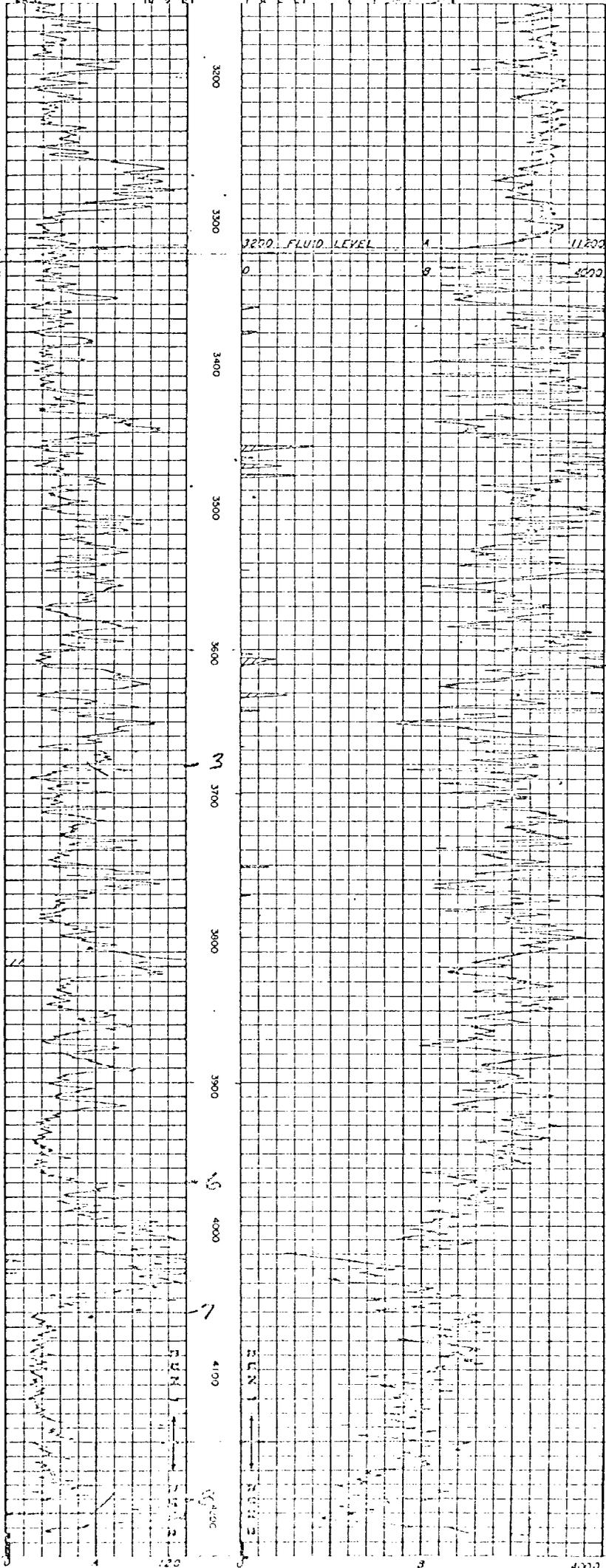


Gamma Ray Neutron Log

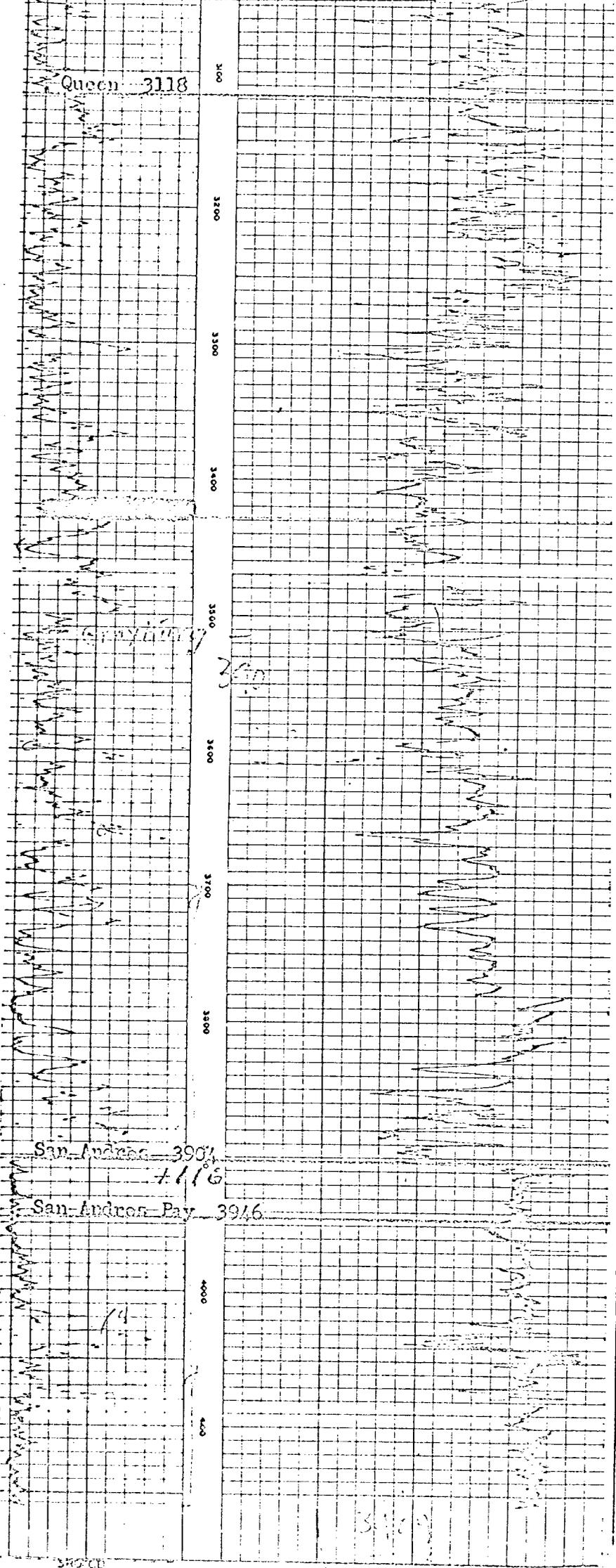
FILE NO.	COMPANY	CONTINENTAL OIL COMPANY	
	WELL	TAYLOR # 3	
	FIELD	MALJAMAR	
	COUNTY	LEA	STATE
	LOCATION	1980' FWL, 660' FSI	Other Services TEL
	SEC	TWP	RGE
	14	17-S	22-E
Permanent Datum	B. H. F.	Elev.	K5
Log Measured from	A. C.	ft. Above Permanent Datum	DF
Drilling Measured from	K. D.		GI

+

105025



COMPANY: GULF PRODUCTION COMPANY WELL: 3118 FIELD: 3118 LOCATION: 3118 COUNTY: LJA STATE: TEXAS	COMPANY: GULF PRODUCTION COMPANY	Well Location
	WELL: 3118	MARKER FLOOR: 4311'
	FIELD: 3118	POSTER 3118
	LOCATION: 3118	
	COUNTY: LJA STATE: TEXAS	
LOG ZERO: 3118	ELEV. 1000	ELEV. 1000 ELEV. 1000 ELEV. 1000
ORIG. ZERO: 3118		
FORM DATUM: 3118		



SCHLUMBERGER WELL SURVEYING CORPORATION

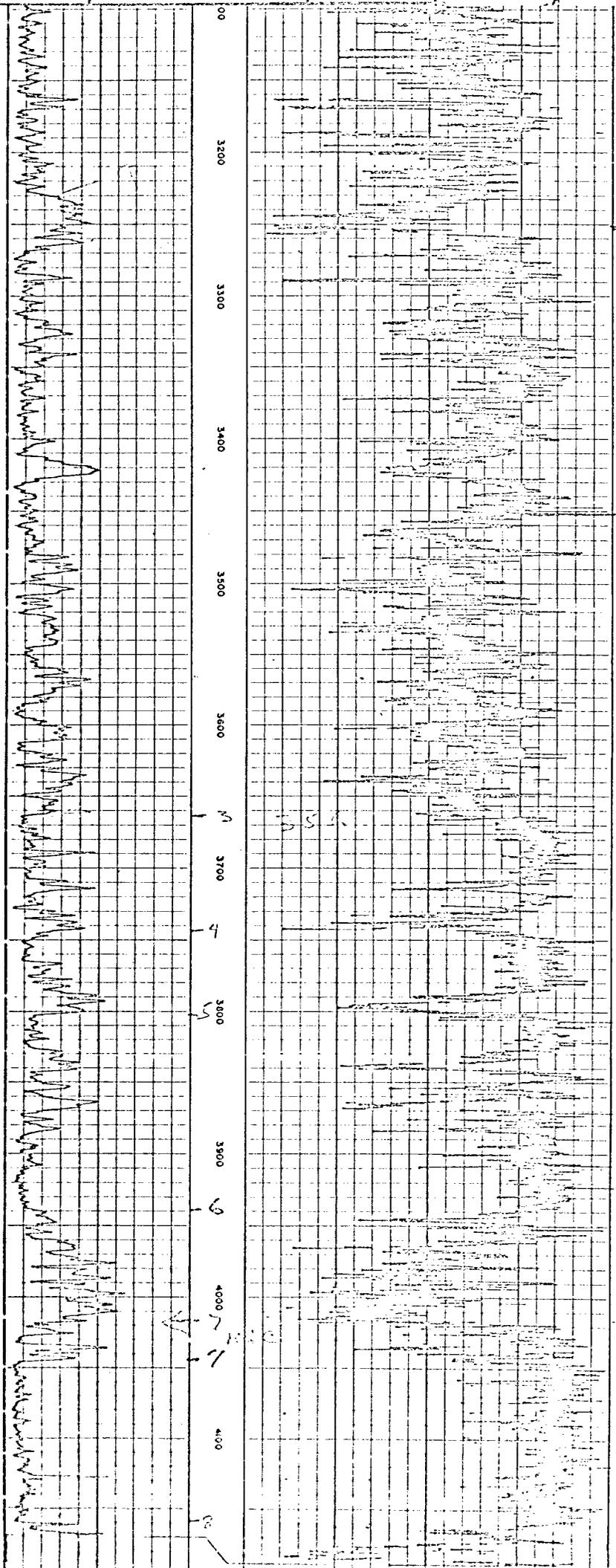
REGISTERED PROFESSIONAL ENGINEERS



COUNTY LEA
 FIELD OF LOCATION HAL JAMAR
 WELL TAYLOR #2
 COMPANY CONTINENTAL OIL CO.

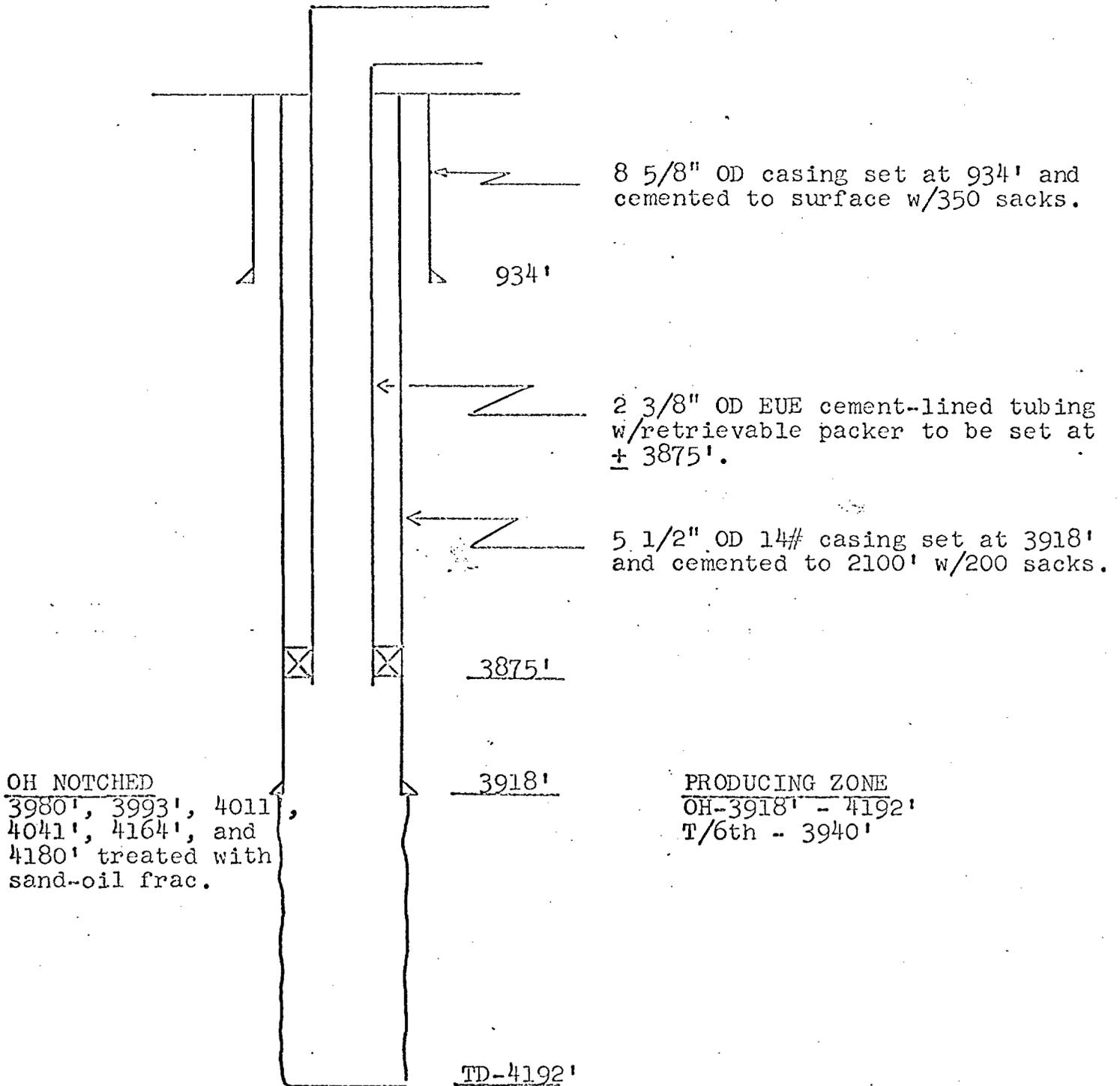
COMPANY CONTINENTAL OIL COMPANY
 WELL TAYLOR #2
 FIELD HAL JAMAR
 LOCATION SEC. 14, 17S-32E
 COUNTY LEA
 STATE NEW MEXICO

Other Surveys LL-3
 Location of Well
 1980' FSL
 660' FWL
 Elevation: K.B. 4053
 D.P. 4052
 or G.L. 4044



A. C. Taylor No. 2

Unit L 1980' FSL & 660' FWL Sec. 14-17S-32E
Elev. - BHF - 4044'
DF - 4054'

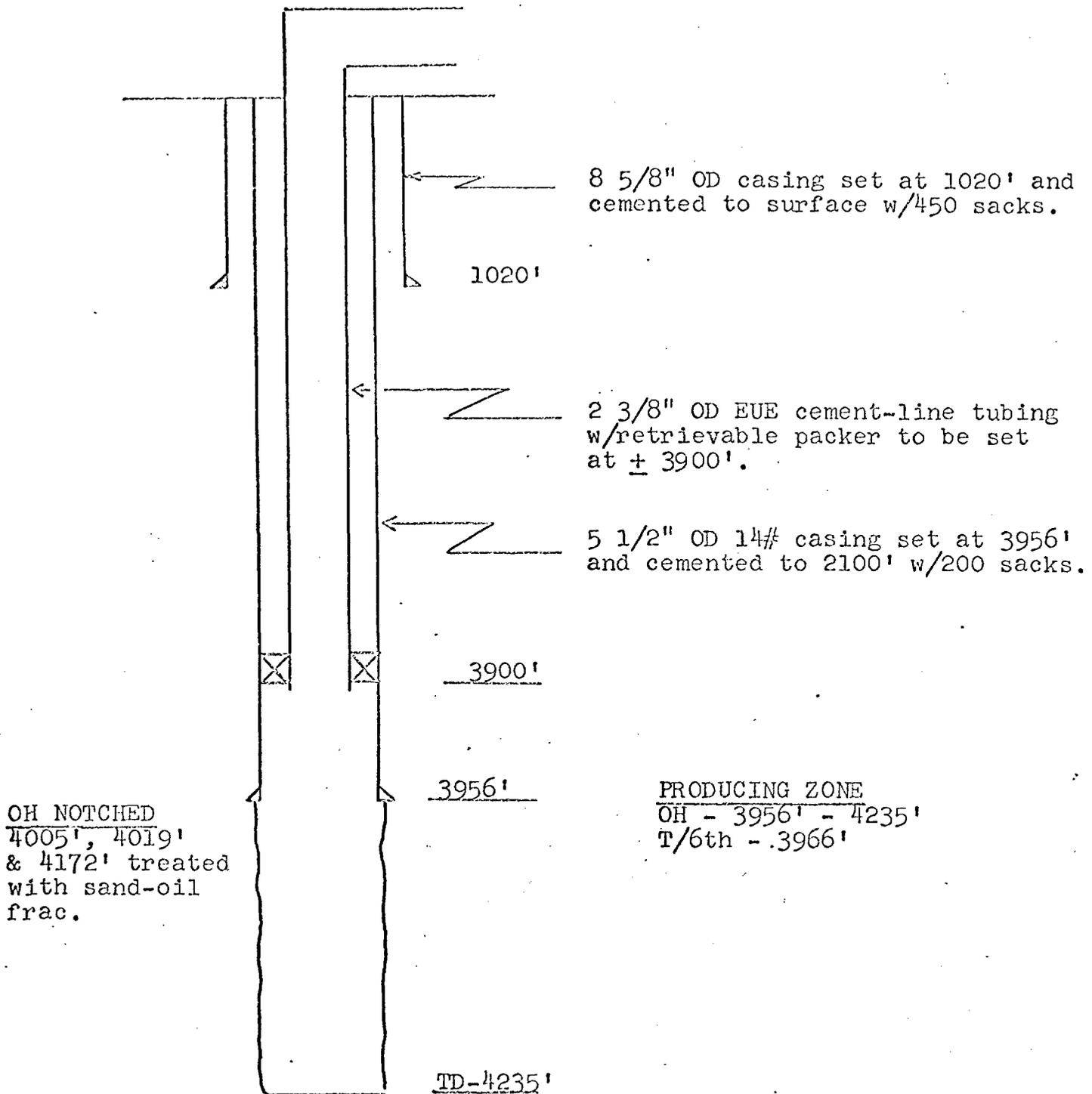


PROPOSED PROCEDURE

1. Tag bottom - pull tubing and tally out. Electronically inspect tubing on racks.
2. Clean out any fill found above 4180' to 4185'.
3. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at \pm 3875'.
4. Hook-up well and commence water injection.

Note: Tubing to be electronically inspected on rack.

A. C. Taylor No. 3
 Unit N - 660' FSL & 1930' FWL Sec. 14-17S-32E
 Elev. - BHF - 4039'
 DF - 4053'

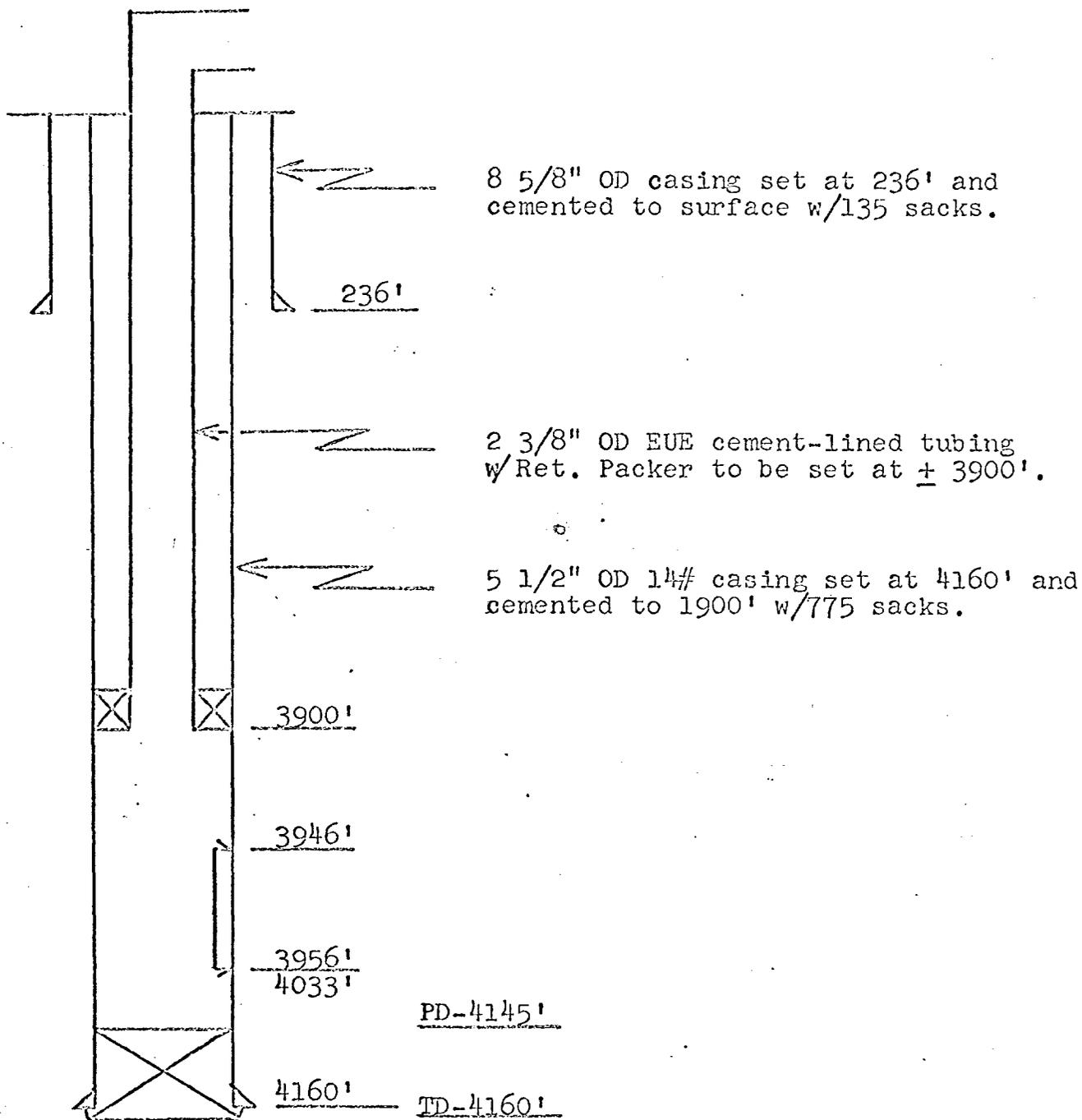


PROPOSED PROCEDURE

1. Tag bottom - pull tubing and tally out. Electronically inspect tubing rack.
2. Clean out any fill found above 4172' to 4180'.
3. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at ± 3900'.
4. Hook-up well and commence water injection.

Note: Tubing to be electronically inspected on rack.

Baish "B" No. 3
 Unit B - 660' FNL & 1980' FEL Sec. 22-17S-32E
 Elev. - BHF-4009'
 DF-4020'



PROPOSED PROCEDURE

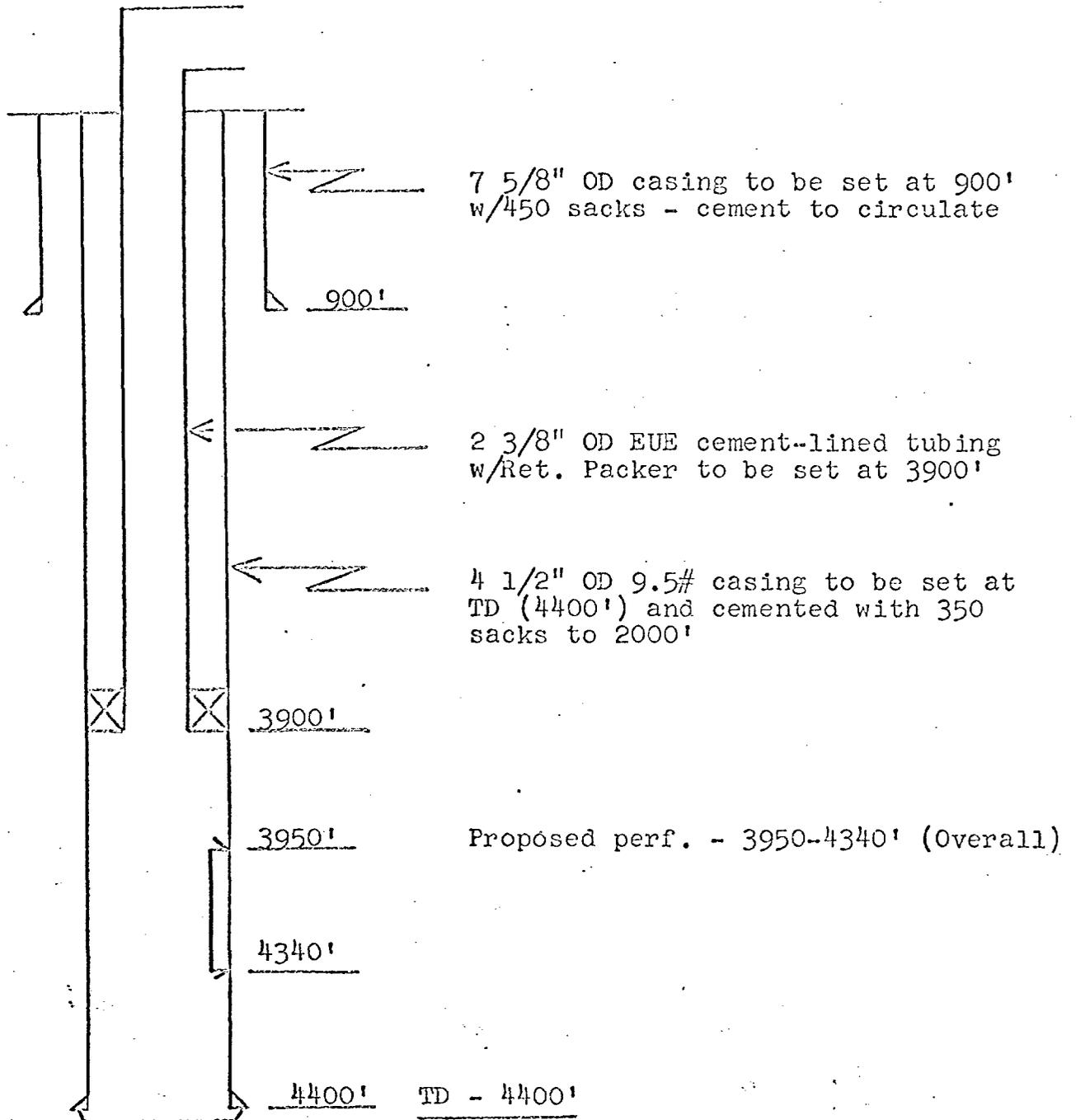
1. Tag bottom - pull tubing and tally out. Electronically inspect tubing on rack.
2. Clean out any fill found above 4033' to 4038'.
3. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at 3900'.
4. Hook-up well and commence water injection.

Note: Tubing to be electronically inspected on rack.

Miller "B" No. 2

(To Be Drilled)

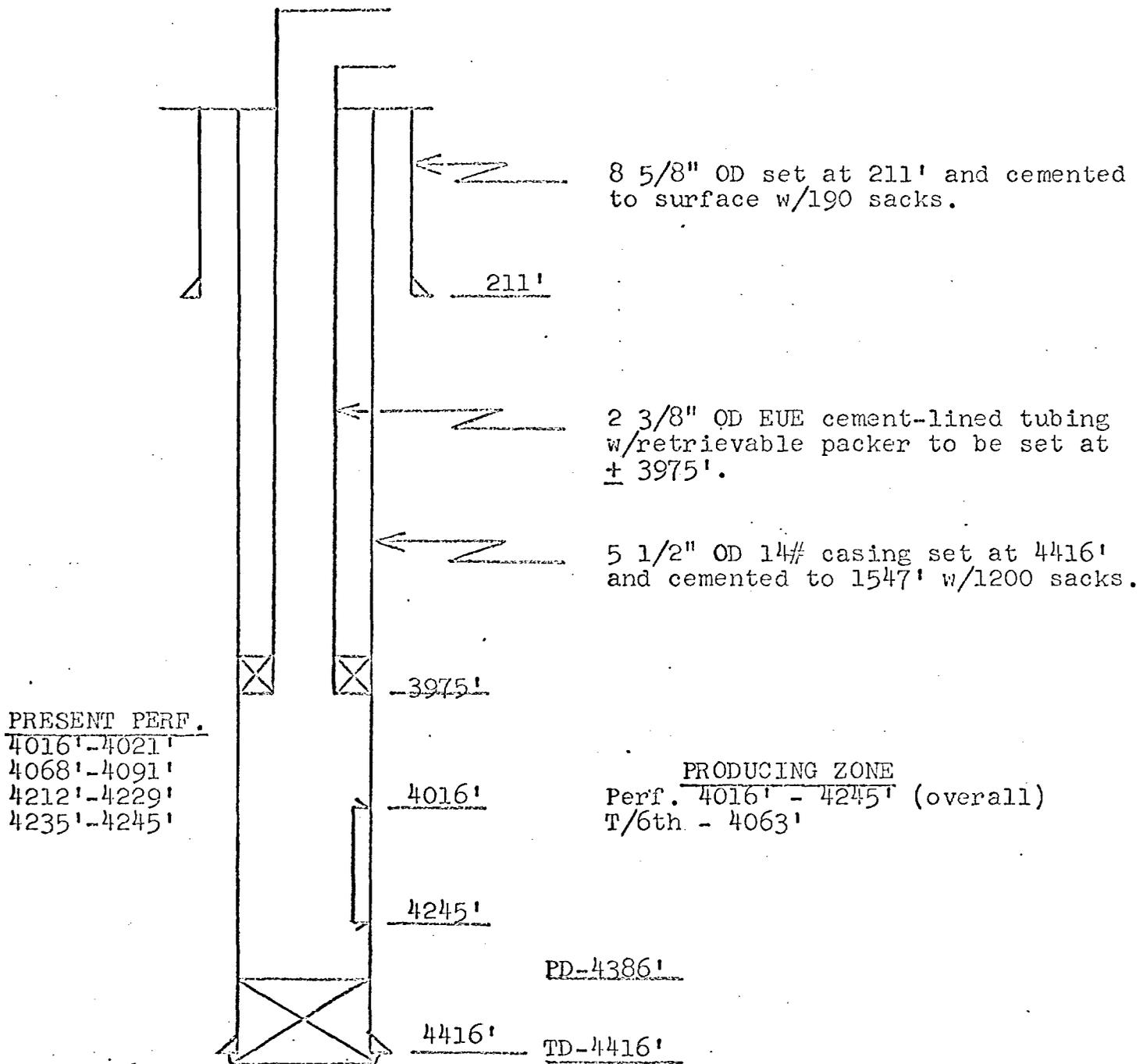
Unit B - 660' FNL & 1980' FEL Sec. 23-17S-32E



PROPOSED PROCEDURE

1. Drill to TD - set casing at points selected by geologist and cement as indicated.
2. Run Gamma Ray-Neutron Log.
3. Selectively perforate
4. Stimulate 7th zone w/acid and 6th zone with gelled water-sand frac.
5. Run cement-lined tubing w/retrievable packer to be set approx. 50' above top perf.
6. Connect up and commence water injection.

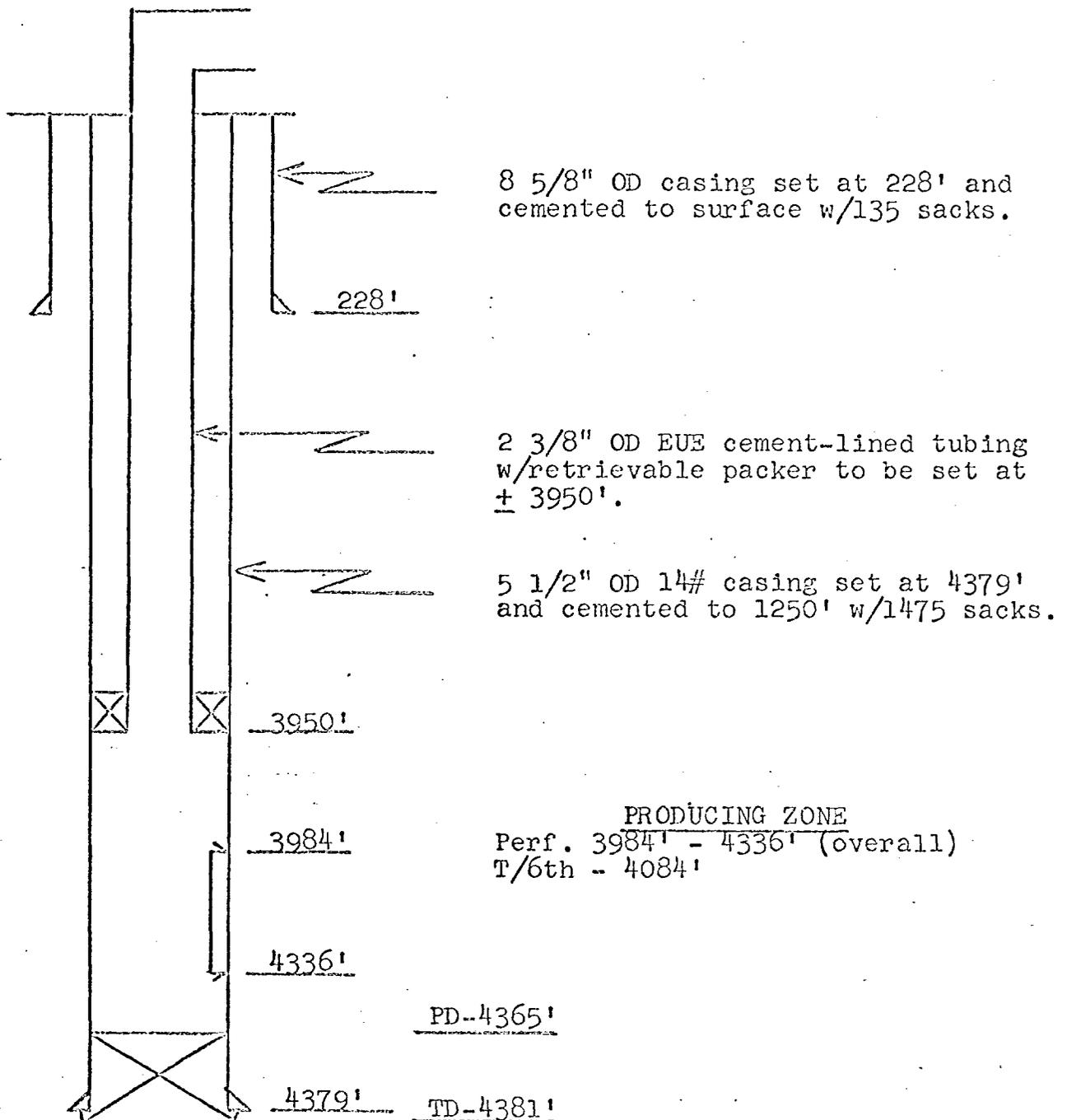
Miller "BX" No. 1
 Unit P - 660' FSL & 660' FEL Sec. 14-17S-32E
 Elev. - BHF - 4074'
 DF - 4085'



PROPOSED PROCEDURE

1. Tag bottom - pull tubing and tally out.
2. Clean out any fill found above 4240' to 4250'.
3. Electronically inspect tubing on rack.
4. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at + 3975'.
5. Hook-up well and commence water injection.

Miller "BX" No. 3
 Unit H - 2030' FNL & 660' FEL, Sec. 14-17S-32E
 Elev. - BHF - 4085'
 DF - 4097'

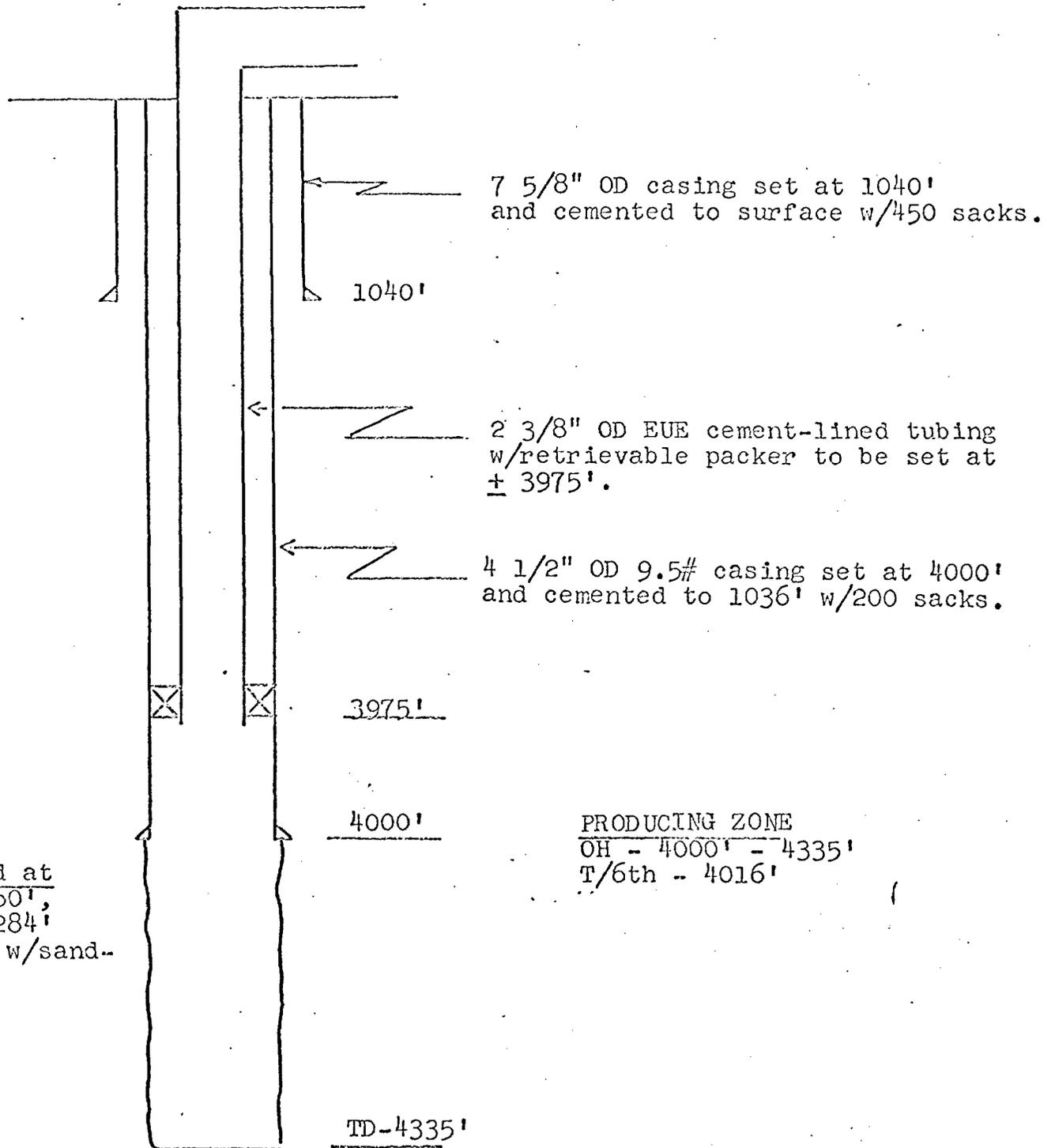


PROPOSED PROCEDURE

1. Pull tubing and rods. Tag bottom and tally out.
2. If fill found above 4330', clean out to 4340'.
3. Run cement-lined 2 3/8" OD EUE tubing w/retrievable packer to be set at \pm 3950'.
4. Hook-up well and commence water injection.

Note: Tubing to be electronically inspected on rack.

Miller "BX" No. 6
 Unit J - 1980' FSL & 1980' FEL Sec. 14-17S-32E
 Elev. - BHF - 4064'
 DF - 4074'



PROPOSED PROCEDURE

1. Tag bottom - pull tubing and tally out. Electronically inspect tubing on rack.
2. If fill found above 4284, cleanout to 4300'.
3. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at ± 3975'.
4. Hook-up well and commence water injection.

Note: Tubing to be electronically inspected on rack.

MCA AREA
WATER INJECTION WELL DATA

LEASE & WELL NO.	TD/PBD	SURFACE CASING			PRODUCTION CASING			PRODUCING INTERVAL		
		OD	DEPTH	SACKS CEMENT TOP	OD	DEPTH	SACKS CEMENT TOP	CEMENT TOP		
A. C. Taylor No. 2	4192'	8 5/8"	934'	350	Surface	5 1/2"	3918'	200	2100'	3918'-4192' (OH)
A. C. Taylor No. 3	4235'	8 5/8"	1020'	450	Surface	5 1/2"	3956'	200	2100'	3956'-4235' (OH)
Baish "B" No. 3	4160/4145'	8 5/8"	236'	135	Surface	5 1/2"	4160'	775	1900'	3946'-56', 4033' (Perf.)
Miller "BX" No. 1	4416/4386'	8 5/8"	211'	190	Surface	5 1/2"	4416'	1200	1547'	4016'-4245' (overall perf.)
Miller "BX" No. 3	4381/4365'	8 5/8"	228'	135	Surface	5 1/2"	4379'	1475	1250'	3984'-4336' (overall perf.)
Miller "BX" No. 6	4335'	7 5/8"	1040'	450	Surface	4 1/2"	4000'	200	1036'	4000'-4335' (OH)
Miller "B" No. 2	4400'	7 5/8"	900'	450	Surface	4 1/2"	4400'	350	2000'	3950'-4340' (overall perf.)

TO BE DRILLED

No. 077157

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Texaco, Inc.</i>	POSTMARK OR DATE <i>5/9/69</i>
STREET AND NO. <i>Box 728</i>	
CITY, STATE, AND ZIP CODE <i>Hobbs, N. M. 88240</i>	
If you want a return receipt, check which <input type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 July 1963 NO INSURANCE COVERAGE PROVIDED— (See other side) NOT FOR INTERNATIONAL MAIL	

No. 077158

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Lindair Oil Corp.</i>	POSTMARK OR DATE <i>5/9/69</i>
STREET AND NO. <i>P.O. Box 1920</i>	
CITY, STATE, AND ZIP CODE <i>Hobbs, N. M. 88240</i>	
If you want a return receipt, check which <input type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 July 1963 NO INSURANCE COVERAGE PROVIDED— (See other side) NOT FOR INTERNATIONAL MAIL	

No. 077155

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO STANDARD OIL CO. OF TEXAS	POSTMARK OR DATE <i>5/9/69</i>
STREET AND NO. P. O. BOX 1660	
CITY, STATE, AND ZIP CODE MIDLAND TEXAS 79701	
If you want a return receipt, check which <input type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 July 1963 NO INSURANCE COVERAGE PROVIDED— (See other side) NOT FOR INTERNATIONAL MAIL	

No. 077156

RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Great Western Drilling Co.</i>	POSTMARK OR DATE <i>5/9/69</i>
STREET AND NO. <i>P.O. Box 1659</i>	
CITY, STATE, AND ZIP CODE <i>Midland Texas 79701</i>	
If you want a return receipt, check which <input type="checkbox"/> 10¢ shows to whom and when delivered <input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	If you want delivery only to addressee, check here <input type="checkbox"/> 50¢ fee
FEEs ADDITIONAL TO 20¢ FEE	
POD Form 3800 July 1963 NO INSURANCE COVERAGE PROVIDED— (See other side) NOT FOR INTERNATIONAL MAIL	

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE