

**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.

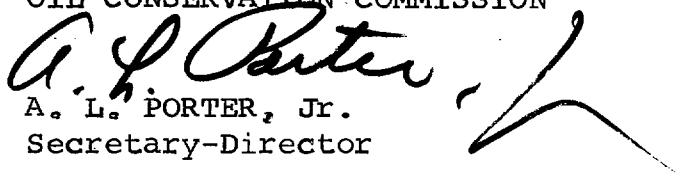
IT IS THEREFORE ORDERED:

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

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

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

WFX-317  
1.000 4.000 2.000  
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/O 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

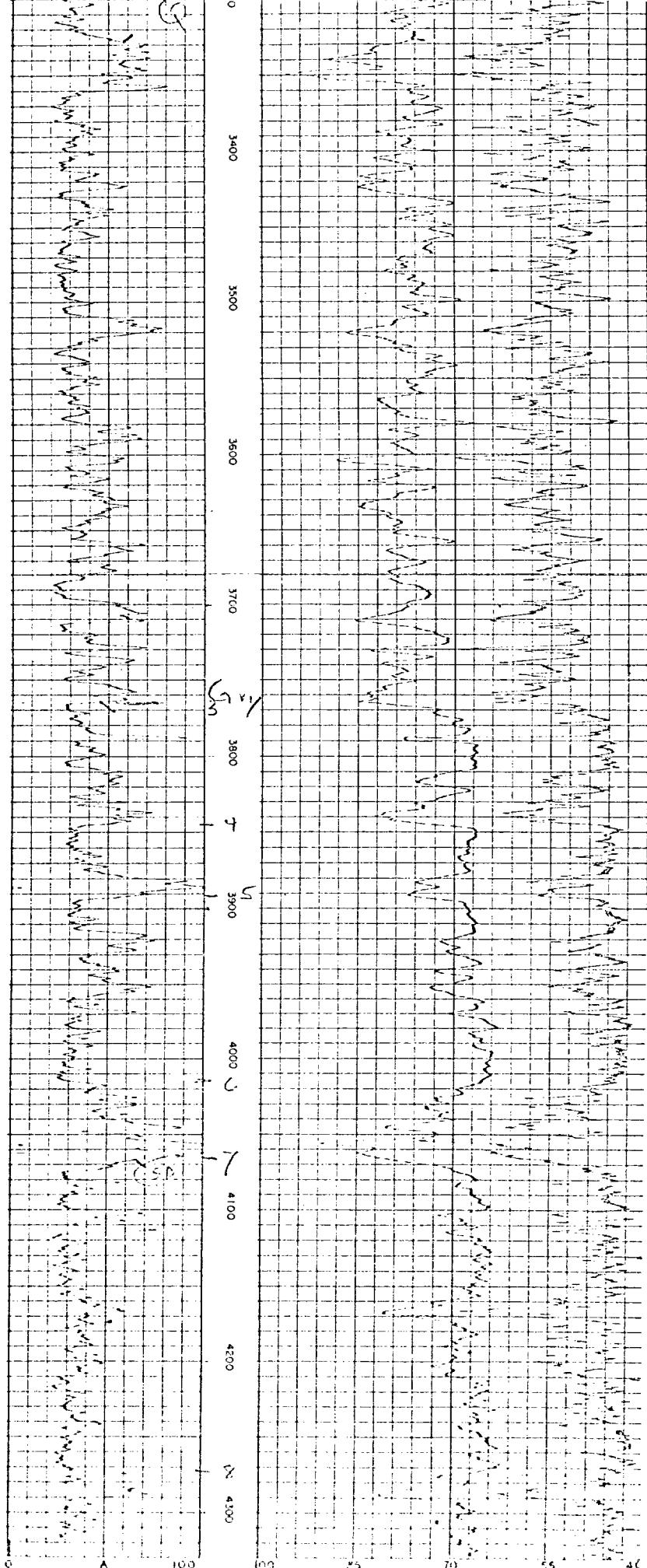
Mrs. Mary K. Fowles  
2415 Larkin  
San Francisco, Calif. 94109


Sally Seeber  
6921 E. Hawthorne  
Tuscon, Arizona 85700

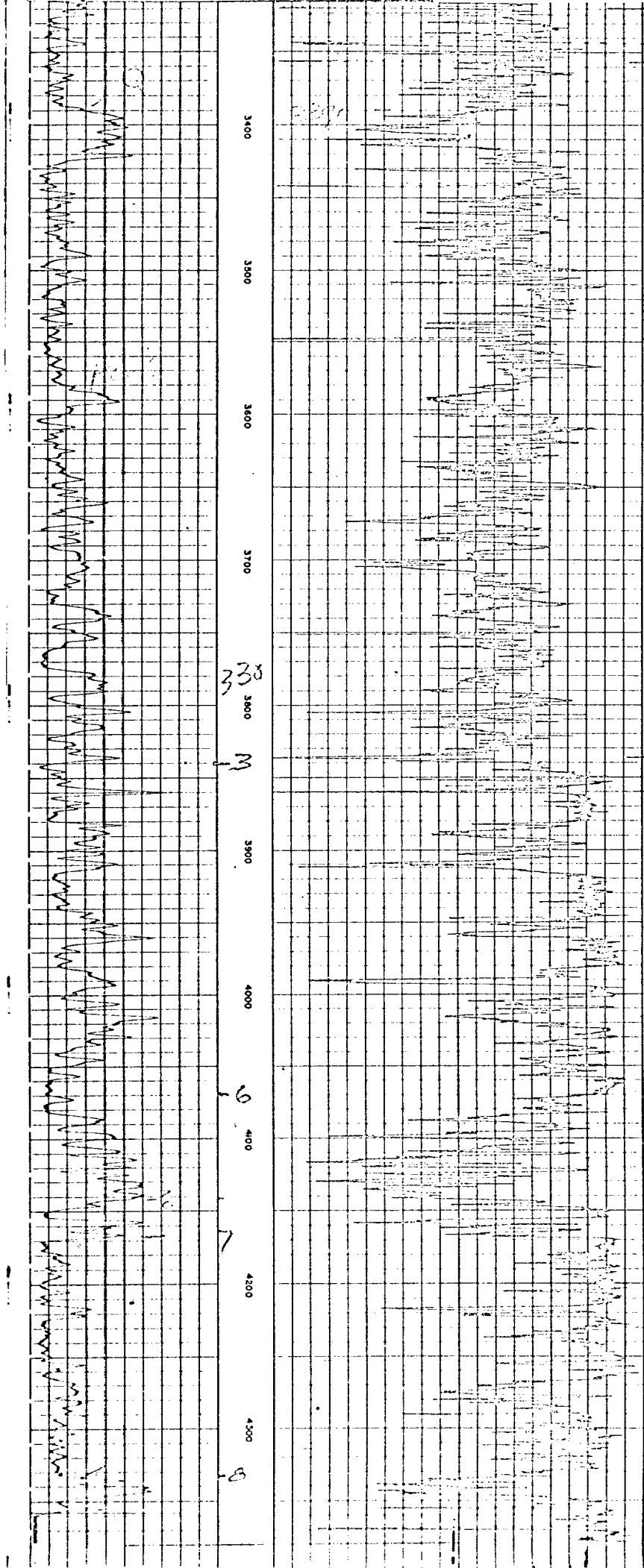
David E. Runyan  
Hope, New Mexico 88250

14-12-32

Acoustic Gamma Log	
FILE NO.	COMPANY CONTINENTAL OIL COMPANY
	WELL MILLER "BX" # 6
	FIELD MALJAMAR
	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
Log Measured from K. S.	11 ft. Above Permanent Datum
Drilling Measured from K. S.	
	Excessions: KB 4.5% DF 7.2% GL



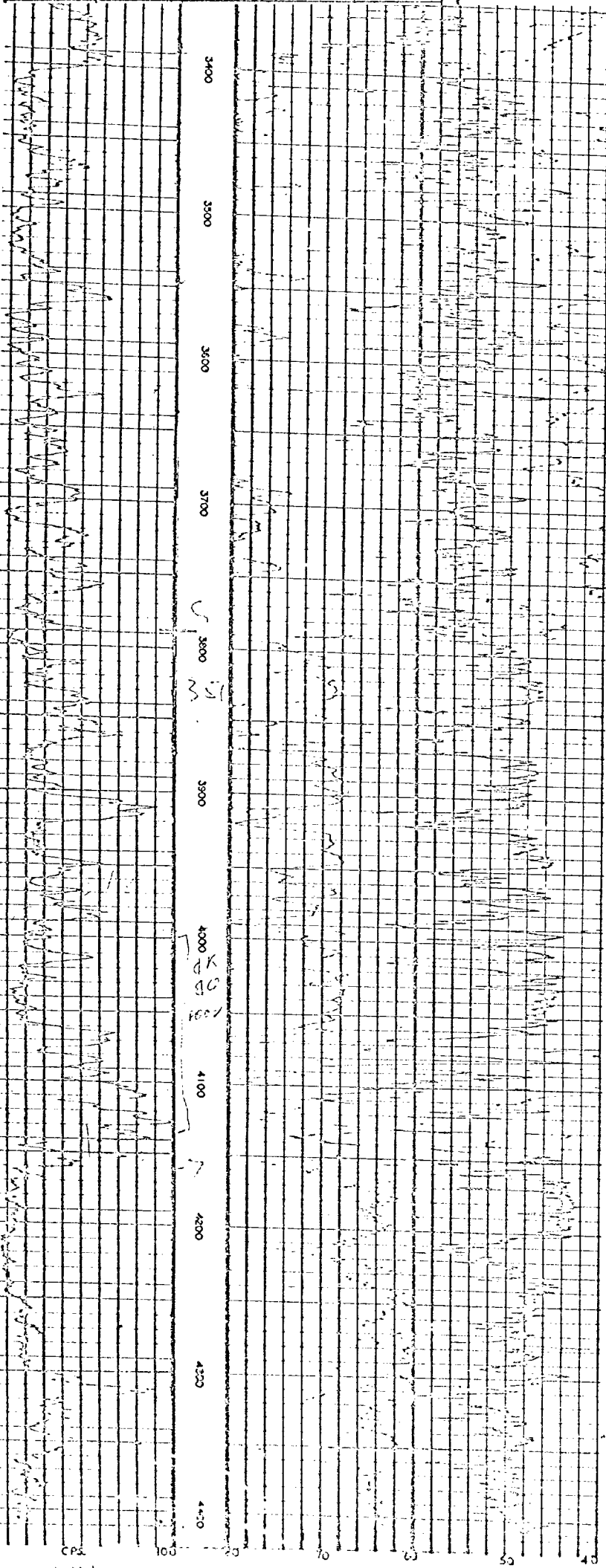
	
COMPANY CONTINENTAL OIL CO COMPANY WELL MILLER "BX" #3 FIELD MALJAMAR LOCATION SEC. 14-175-32E COUNTY LEA STATE NEW MEXICO	
Other Surveys LATEROLOG-J Location of Well 1980' FNL 660' FEL Elevation: K.B. 4101 D.F. 4100 or G.L. 4090	





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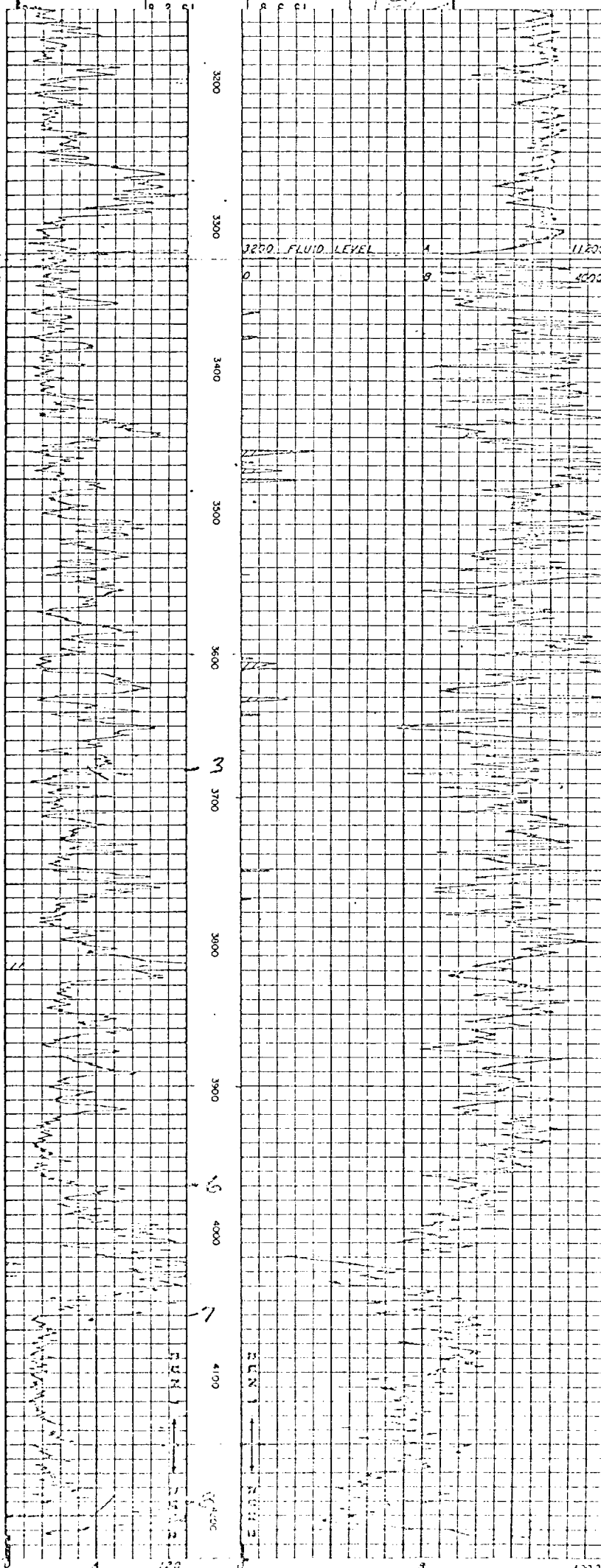
LS



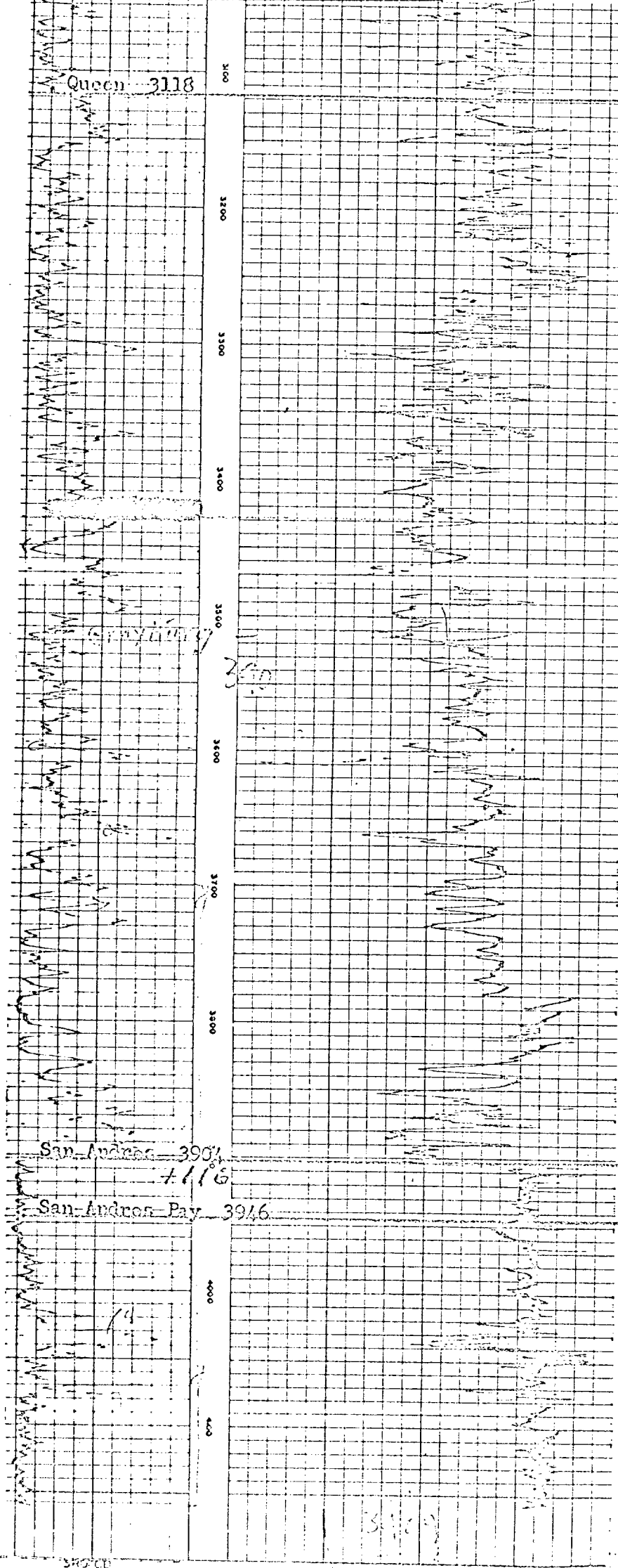
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <div style="width: 15px; height: 15px; border: 1px solid black; border-radius: 50%;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; border-radius: 50%;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; border-radius: 50%;"></div> <div style="width: 15px; height: 15px; border: 1px solid black; border-radius: 50%;"></div> </div> <div>Gamma Ray Neutron Log</div> </div>	
FILE NO.	COMPANY <u>CONTINENTAL OIL COMPANY</u> WELL <u>TAYLOR # 3</u> FIELD <u>MALAMAR</u> COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u> LOCATION <u>1980' FWL, 660' FSL</u>
	SEC <u>14</u> TWP <u>17-S</u> RGE <u>22-E</u> Permanent Datum <u>B.H.F.</u> Elev. <u>5033</u> Log Measured from <u>A.C.</u> Ft. Above Permanent Datum <u>0</u> Drilling Measured from <u>K.D.</u>

+

405015



COMPANY: CONTINENTAL OIL CO. PAN.		Well Location
WELL: 33-D-3		WATER FLOW: 4311
FIELD: 33-D-3		POSTED 9/1/54
LOCATION: 660' EBL, 1750' SBL, 22' SBL		
COUNTY: LJA		STATE: N.M.
LOG ZERO: 33-D-3	DRIG. ZERO: 33-D-3	ELEV. 4336
PERM. DATUM: 33-D-3	DRIG. ZERO: 33-D-3	ELEV. 4336
		ELEV. 4336



# SCHLUMBERGER WELL SURVEYING CORPORATION



COMPANY CONTINENTAL OIL COMPANY

Other Surveys LL-3

WELL TAYLOR #2

Location of Well

1980' FSL  
660' FWL

FIELD HAL JAMAR

LOCATION SEC. 14, T7S-32E

COUNTY LEA

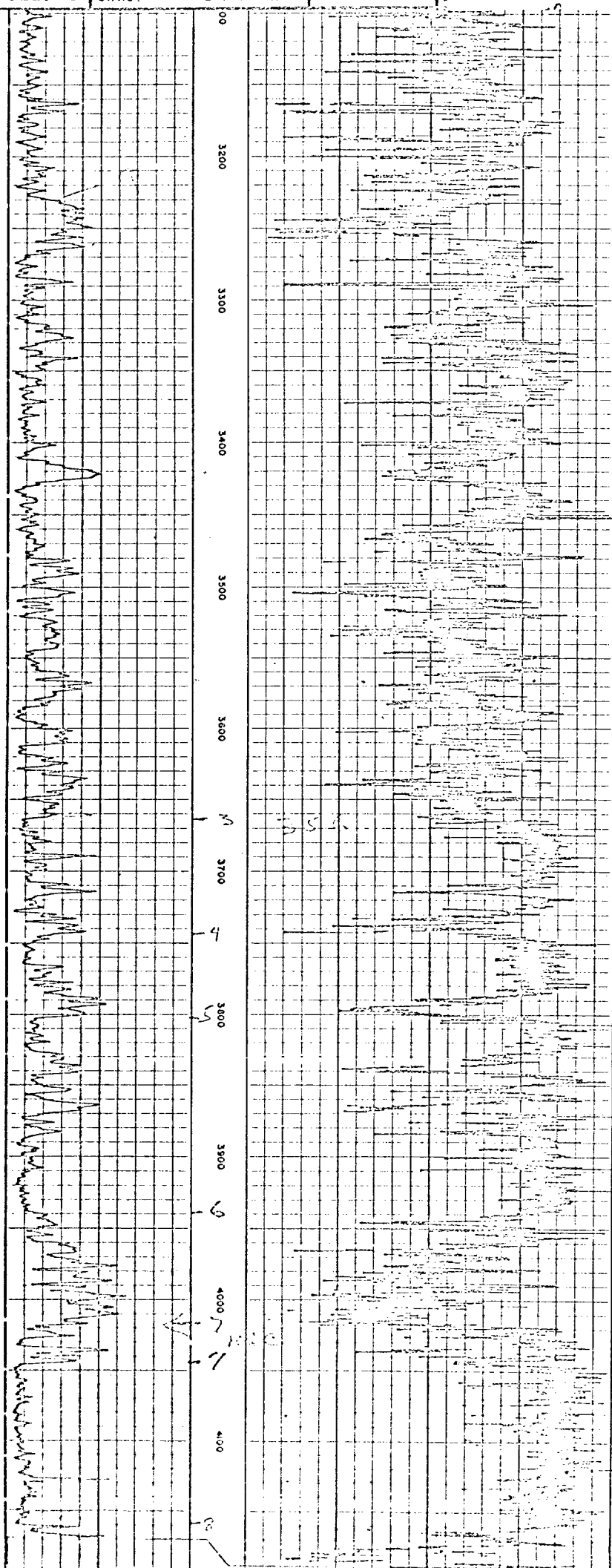
Elevation: K.B. 4053

D.P. 4052

or G.L. 4044

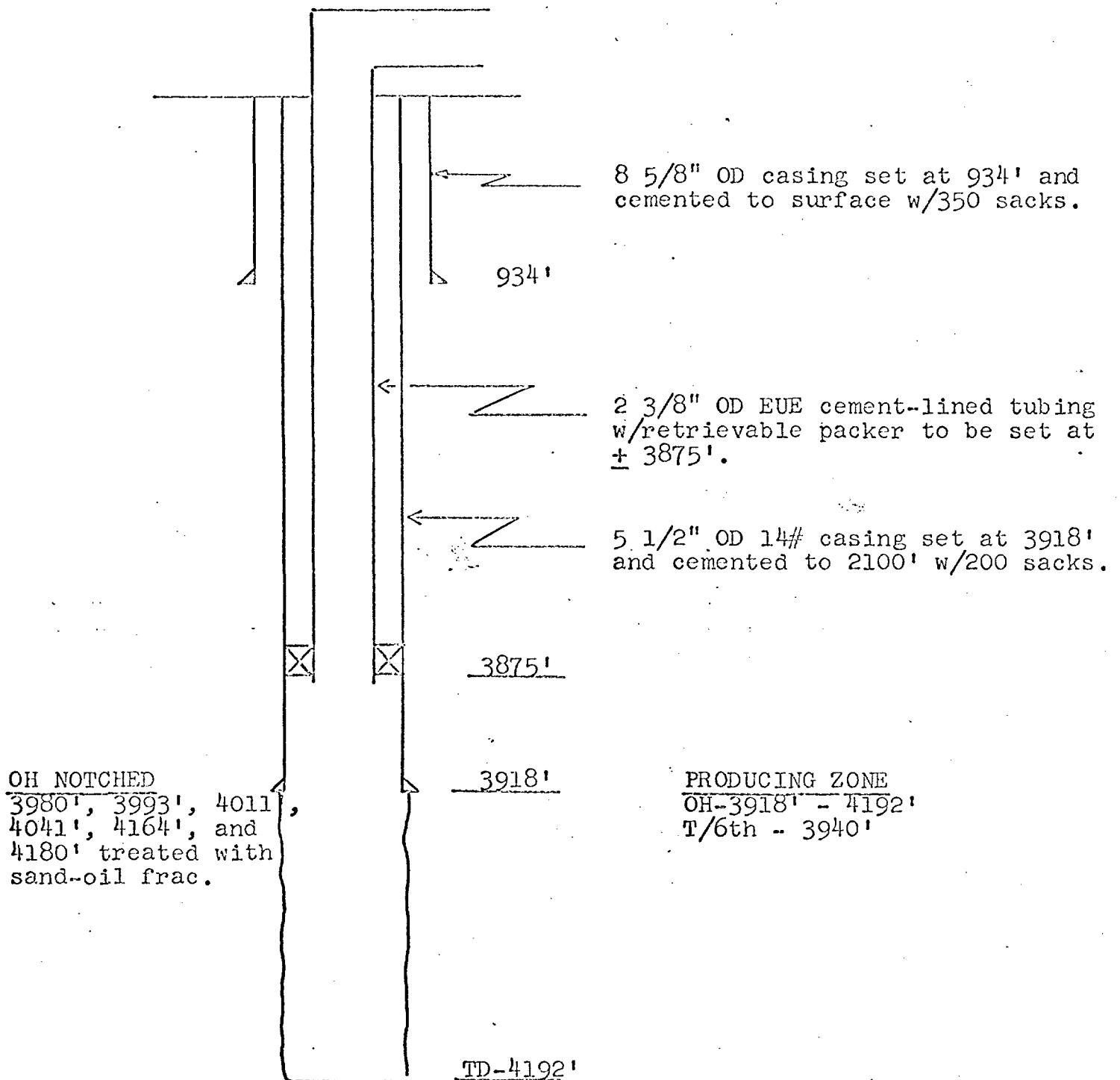
STATE NEW MEXICO

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



A. C. Taylor No. 2

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

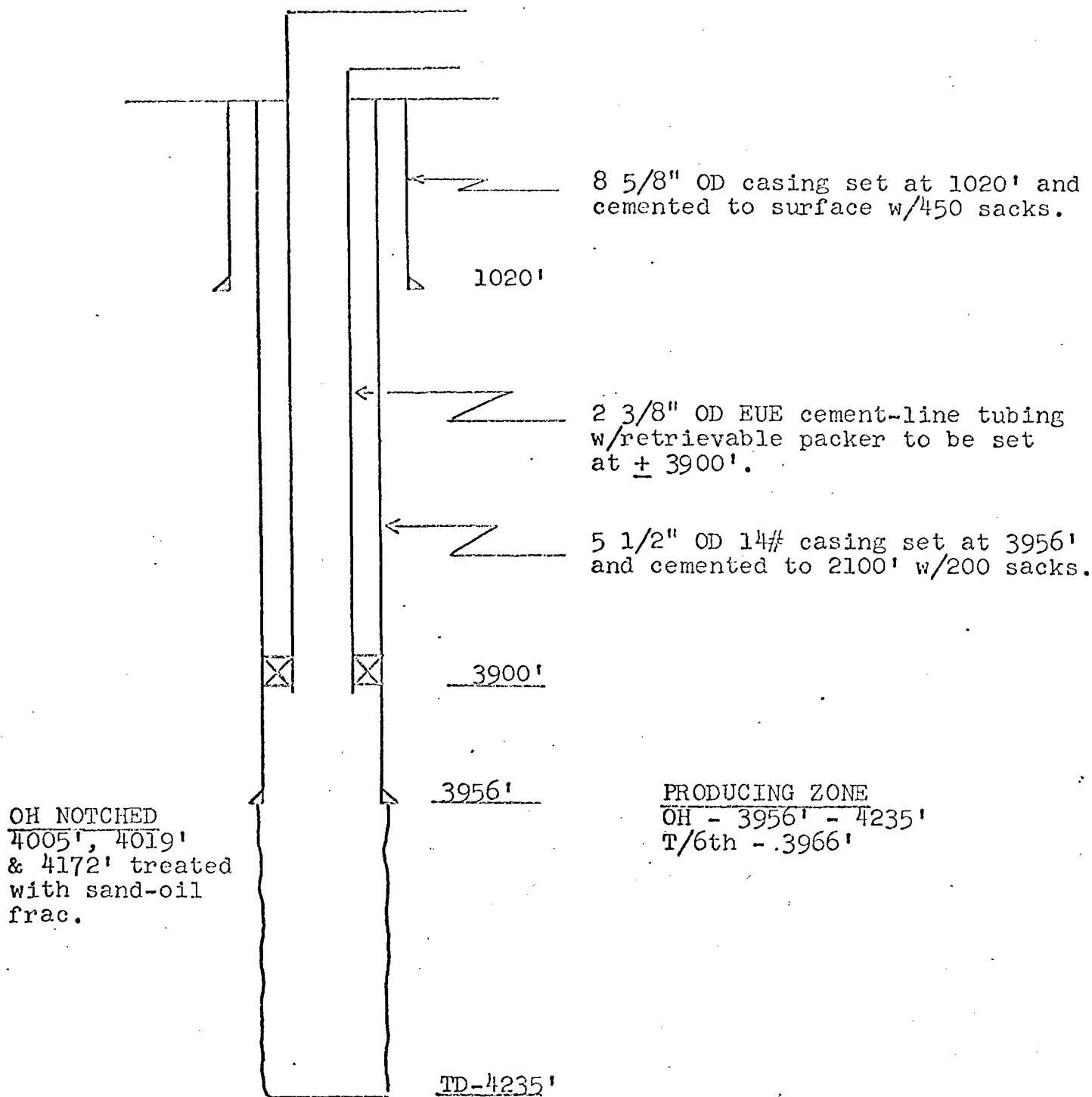


PROPOSED PROCEDURE

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'

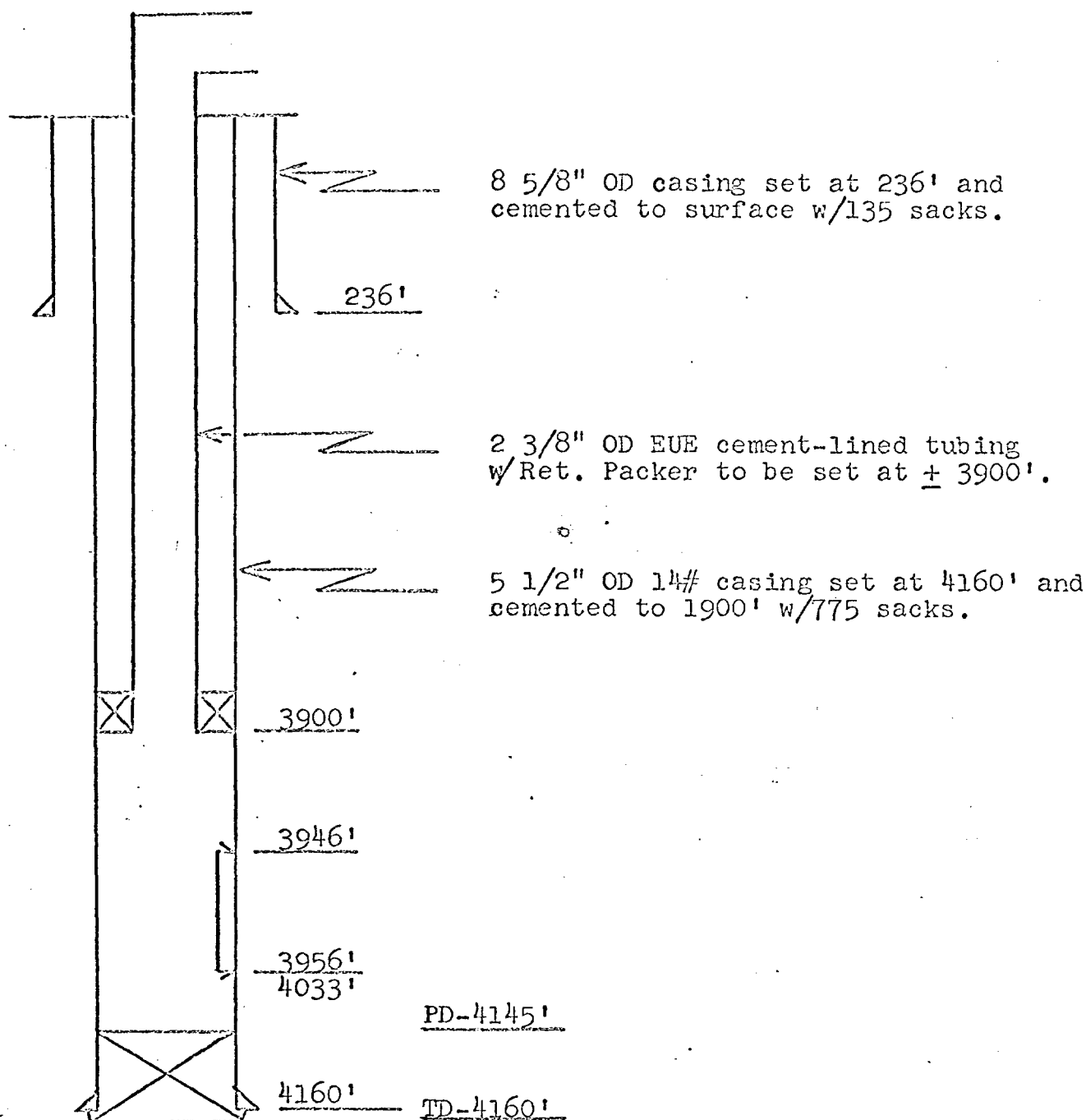


#### PROPOSED PROCEDURE

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  $\pm$  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

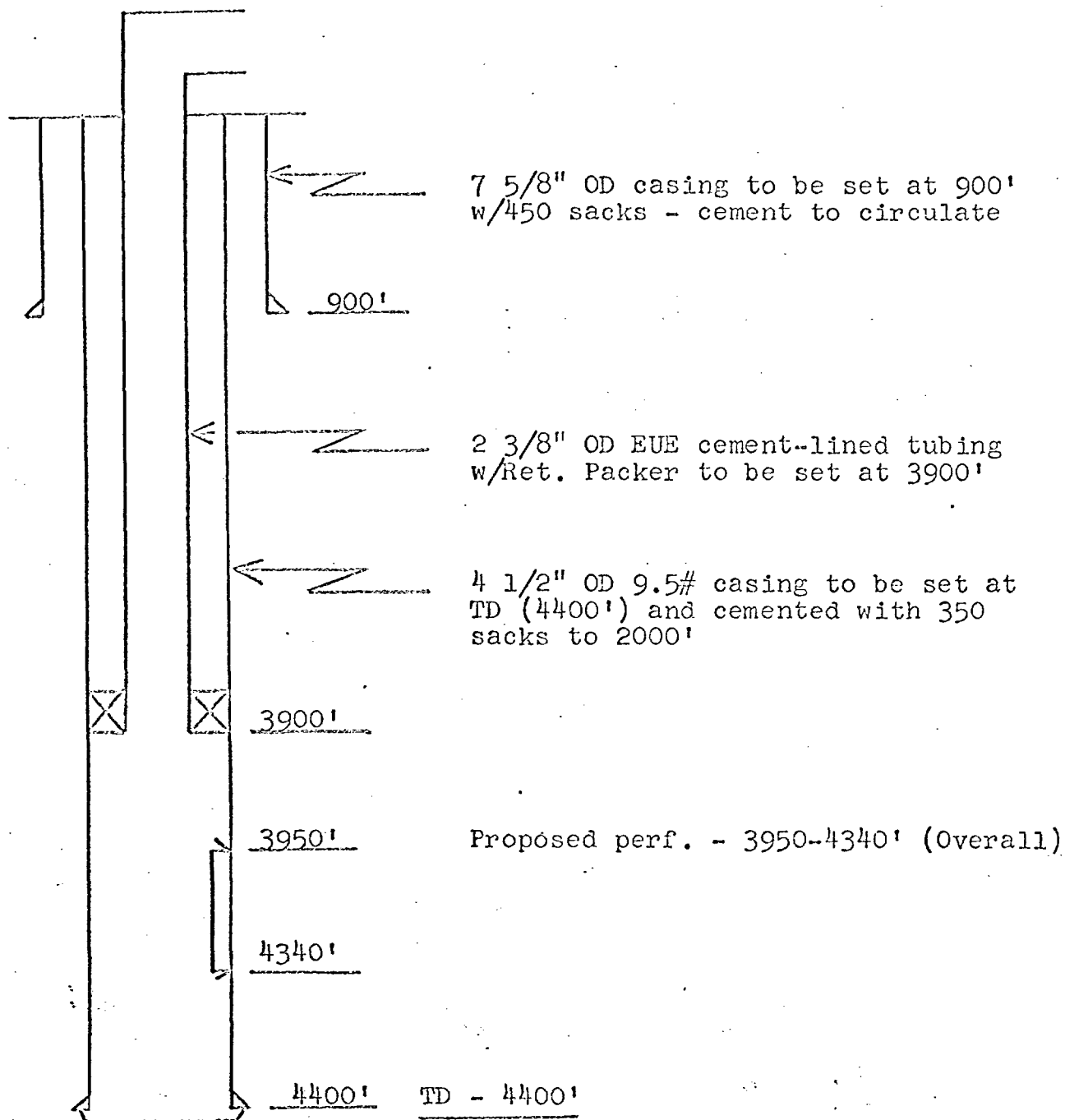
1. Tag bottom - pull tubing and tally out. Electronically inspect tubing on rack.
2. Clean out any fill found above 4033' to 4038'.
3. Run cement-lined 2 3/8" OD EUE tubing with retrievable packer to be set at 3900'.
4. Hook-up well and commence water injection.

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

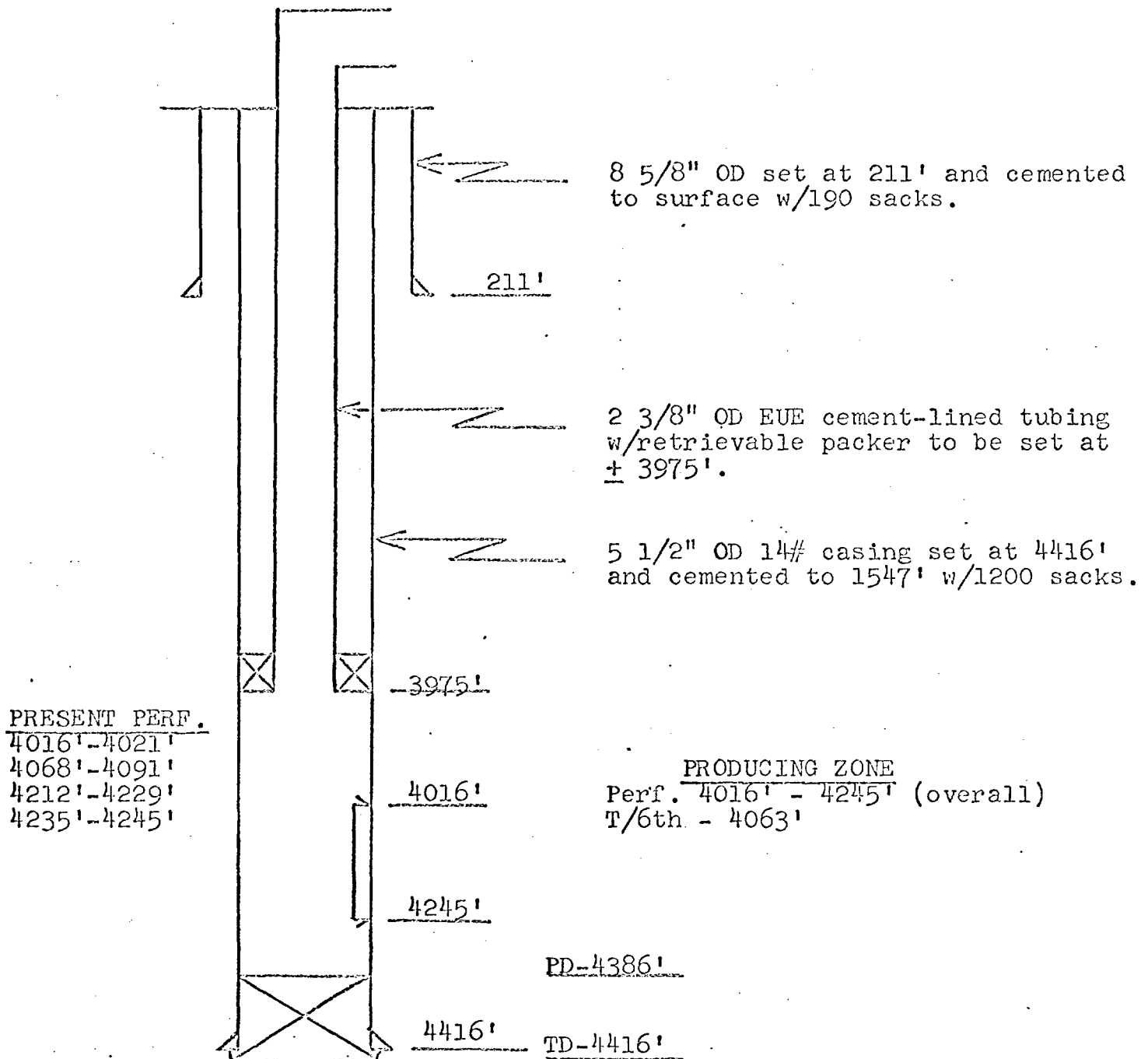


PROPOSED PROCEDURE

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.



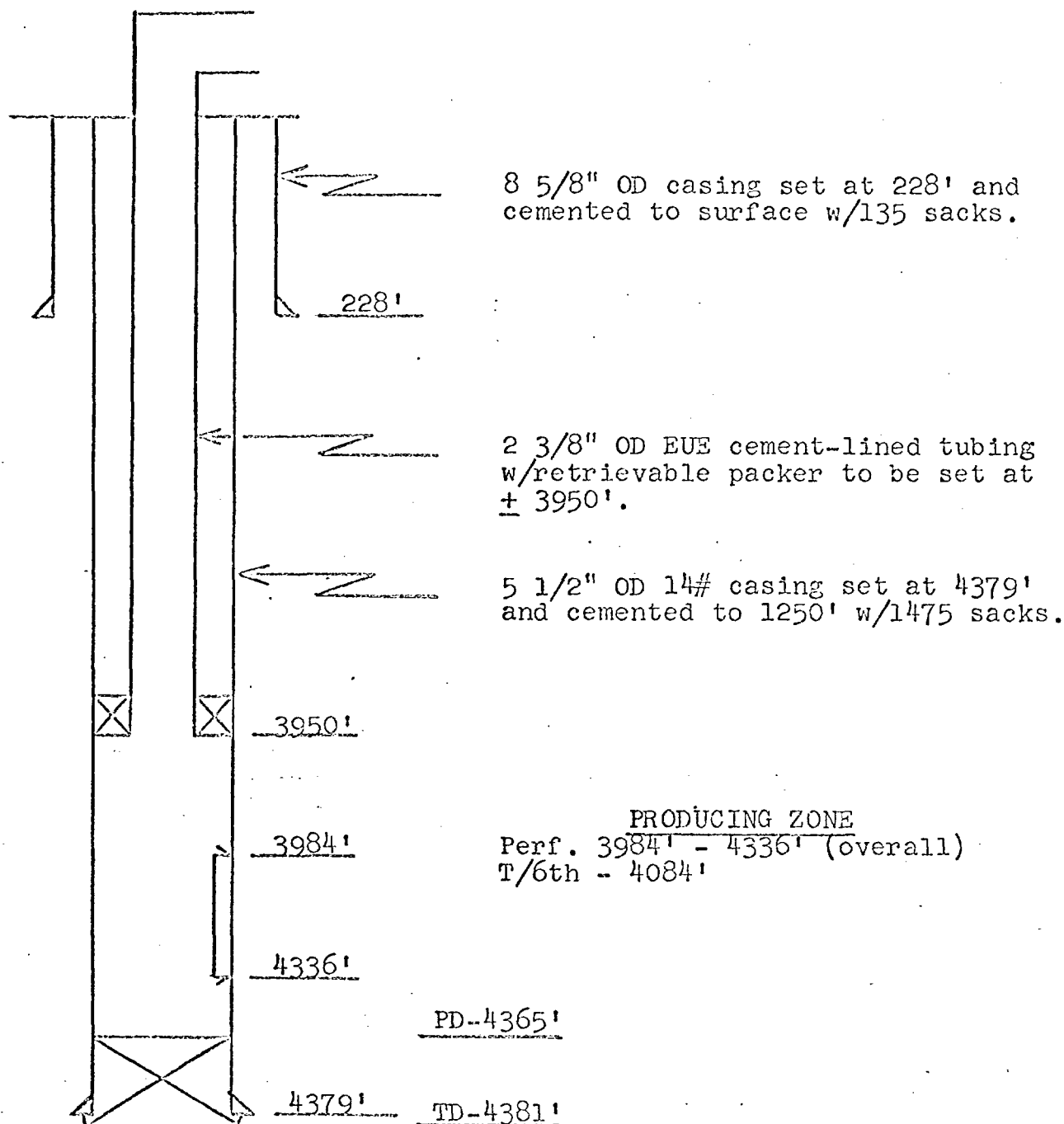
Miller "BX" No. 1  
Unit P - 660' FSL & 660' FEL Sec. 14-17S-32E  
Elev. - BHF - 4074'  
DF - 4085'



#### 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  $\pm$  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'

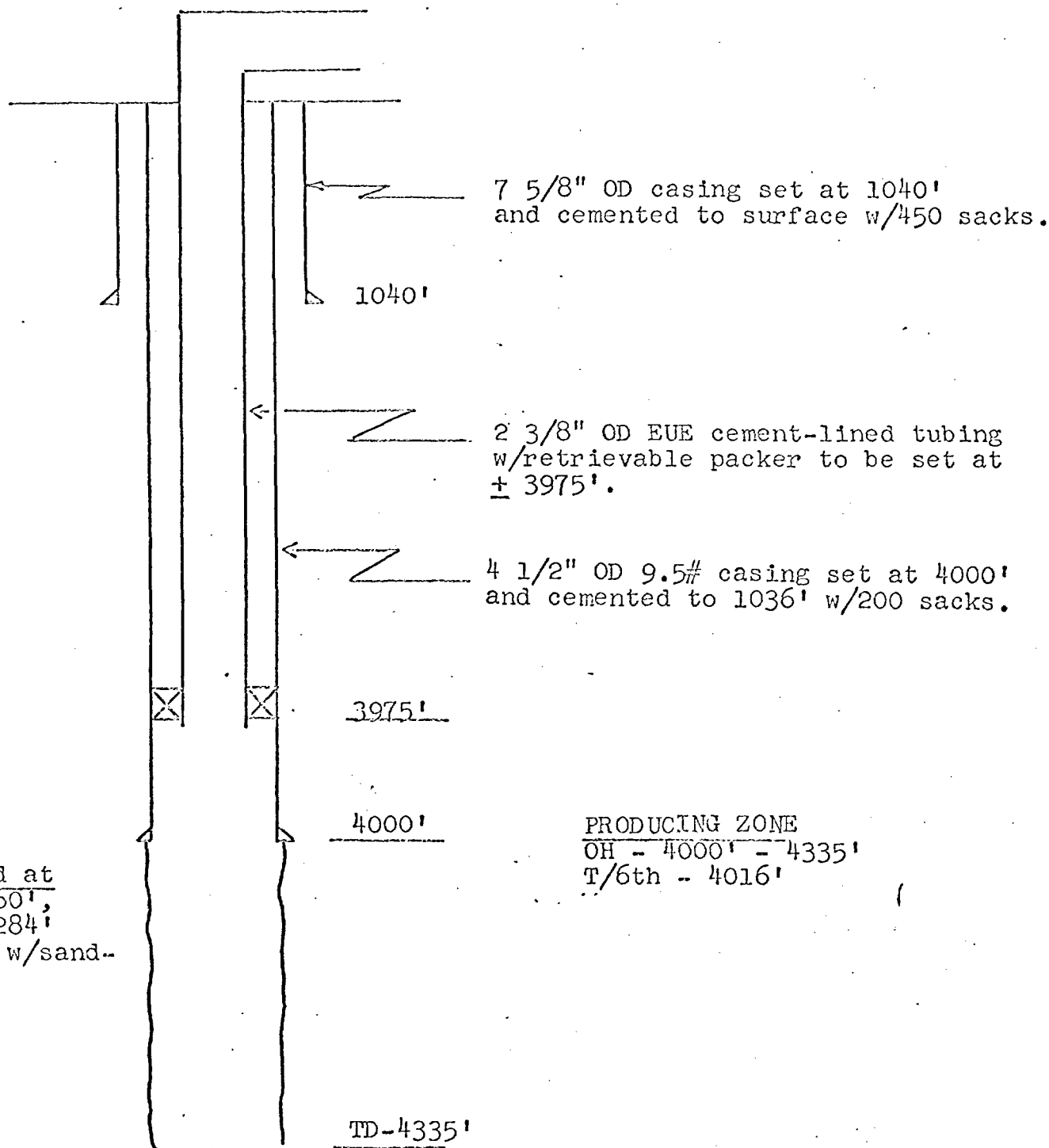


#### PROPOSED PROCEDURE

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 ± 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  $\pm$  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	CEMENT TOP	OD	DEPTH	SACKS CEMENT	CEMENT TOP
A. C. Taylor No. 2	4192'	8 5/8"	934'	350	Surface	5 1/2"	3918'	200	2100'
A. C. Taylor No. 3	4235'	8 5/8"	1020'	450	Surface	5 1/2"	3956'	200	2100'
Baish "B" No. 3	4160/4145'	8 5/8"	236'	135	Surface	5 1/2"	4160'	775	1900'
Miller "BX" No. 1	4416/4386'	8 5/8"	211'	190	Surface	5 1/2"	4416'	1200	1547'
Miller "BX" No. 3	4381/4365'	8 5/8"	228'	135	Surface	5 1/2"	4379'	1475	1250'
Miller "BX" No. 6	4335'	7 5/8"	1040'	450	Surface	4 1/2"	4000'	200	1036'
<u>TO BE DRILLED</u>									
Miller "B" No. 2	4400'	7 5/8"	900'	450	Surface	4 1/2"	4400'	350	2000'
									3950'-4340' (overall perf.)

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—NOT FOR INTERNATIONAL MAIL (See other side)		

No. 077158

## RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <i>Linclair 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—NOT FOR INTERNATIONAL MAIL (See other side)		

No. 077155

## RECEIPT FOR CERTIFIED MAIL—20¢

SENT TO <b>STANDARD OIL CO. OF TEXAS</b>		POSTMARK OR DATE  <i>5/9/69</i>
STREET AND NO. <b>P.O. BOX 1660</b>		
CITY, STATE, AND ZIP CODE <b>MIDLAND TEXAS 79701</b>		
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—NOT FOR INTERNATIONAL MAIL (See other side)		

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—NOT FOR INTERNATIONAL MAIL (See other side)		

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