



WFX - 281  
New Jan 15

# CONTINENTAL OIL COMPANY

P. O. Box 460

HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT

HOBBS DIVISION

L. P. THOMPSON

Division Manager

G. C. JAMIESON

Assistant Division Manager

December 20, 1967

1001 NORTH TURNER

TELEPHONE 393-4141

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

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

Re: Application for Administrative  
Approval of MCA Waterflood Project -  
Maljamar - G-SA Pool - Lea County,  
New Mexico

Gentlemen:

Forwarded herewith is our Application to Expand the MCA Waterflood project in the Maljamar - G-SA Pool by adding 17 water injection wells in Sections 16, 17, 18, and 33, T-17S, R-32-E, Lea County, New Mexico. Copies of this application are being furnished this date by certified mail to the State Engineer's Office and the offset operators.

Your further handling and approval of this application will be sincerely appreciated.

Yours very truly, *MAIL OFFICE*

*L. P. Thompson* DEC 26 AM 8 23

LPT-JS  
Attach

cc: RLA JWK JJB

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico

Page 2

By Certified Mail:

State Engineer  
P. O. Box 1079  
Santa Fe, New Mexico

Kersey and Company  
P. O. Box 316  
Artesia, New Mexico

E. C. Donohue  
% Mrs. Wilma D. Moleen  
Drawer 1372  
El Paso, Texas

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

Wm. R. and Edward A. Hudson  
1510 First National Building  
Fort Worth, Texas

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  
Hobbs, New Mexico  
December 20, 1967

OFFICE OF THE  
'67 DEC 26 AM 8 23

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

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

CONTINENTAL OIL COMPANY AMENDED  
REQUEST FOR ADMINISTRATIVE APPROVAL  
TO EXPAND THE MCA UNIT SECONDARY  
RECOVERY PROJECT BY ADDING SEVEN-  
TEEN WATER INJECTION WELLS IN SEC-  
TIONS 16, 17, 18, AND 33, TOWNSHIP  
17 SOUTH, RANGE 32 EAST, LEA COUNTY,  
NEW MEXICO

Gentlemen:

The New Mexico Oil Conservation Order R-2403, dated December 31, 1962, approved the Continental Oil Company-operated MCA Unit 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.

An additional thirteen (13) wells in an area described as the south half of the south half of Section 16, and all of Sections 21 and 28, Township 17 South, Range 32 East, Lea County, New Mexico, were converted to water injection under New Mexico Oil Conservation Commission Administrative Order WFX-19, dated April 15, 1965.

Administrative Order WFX-234, dated April 24, 1966, authorized expansion to include sixteen additional water injection wells in Sections 20 and 29, and Order No. WFX-253 dated March 15, 1967, authorized 16 additional injection wells in Sections 19 and 30, Township 17 South, Range 32 East, Lea County, New Mexico.

Continental Oil Company, as operator of the MCA Unit, and as operator of leases within the MCA Unit Area, but outside the Participating Area respectfully requests administrative approval under the provisions of Order No. R-2403 to further expand

Application

Page 2

the MCA Unit secondary recovery project to include seventeen additional water injection wells in Sections 16, 17, 18 and 33, 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>
MCA Unit No. 1	Unit B, Sec. 17-17S-32E
MCA Unit No. 3	Unit D, Sec. 16-17S-32E
MCA Unit No. 6	Unit H, Sec. 17-17S-32E
MCA Unit No. 7	Unit F, Sec. 17-17S-32E
MCA Unit No. 15	Unit N, Sec. 17-17S-32E
MCA Unit No. 220	Unit D, Sec. 33-17S-32E
MCA Unit No. 223	Unit B, Sec. 33-17S-32E
MCA Unit No. 232	Unit F, Sec. 33-17S-32E
MCA Unit No. 246	Unit P, Sec. 17-17S-32E
Mitchell "B" No. 7	Unit L, Sec. 17-17S-32E
Mitchell "B" No. 8	Unit J, Sec. 17-17S-32E
Mitchell "B" No. 12	Unit P, Sec. 18-17S-32E
Mitchell "B" No. 13	Unit N, Sec. 18-17S-32E
State "B" No. 3	Unit J, Sec. 16-17S-32E
State "B" No. 6	Unit B, Sec. 16-17S-32E
State "B" No. 7	Unit H, Sec. 16-17S-32E
State "O" No. 1	Unit F, Sec. 16-17S-32E

In conjunction with the expansion, it is proposed to discontinue gas injection into the following MCA Unit wells:

<u>Well No.</u>	<u>Location</u>
MCA Unit No. 16	Unit M, Sec. 17-17S-32E
MCA Unit No. 222	Unit P, Sec. 33-17S-32E

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 eleven of the proposed injection wells which are available.
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.

The casing pattern of these wells is influenced by the fact that in this particular area there are no fresh water sands. Anticipated total water injection rates into the proposed seventeen (17) injection wells described above is 9,000 BWPD, for a total of 50,000 BWPD in the ten section area. Exact volumes to be injected in each well will be dependent upon net producing interval open and injection pressures encountered.

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 letter with attached data is being forwarded by certified mail to the State Engineer's Office, Box 1079, Santa Fe, New Mexico, and to the offset operators.

Your consideration and approval of the proposed expansion is respectfully requested.

Yours very truly,



L. P. THOMPSON

LPT-JS

cc: NMOCC-Hobbs JWK JJB RLA  
USGS-Roswell  
CPL-Santa Fe  
Working Interest Owners per attached list (wo/Enc.)

Page 2

By Certified Mail:

State Engineer  
P. O. Box 1079  
Santa Fe, New Mexico

Kersey and Company  
P. O. Box 316  
Artesia, New Mexico

E. C. Donohue  
% Mrs. Wilma D. Moleen  
Drawer 1372  
El Paso, Texas

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

Wm. R. and Edward A. Hudson  
1510 First National Building  
Fort Worth, Texas

M C A Unit  
Working Interest Owners

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

Cities Service Oil Company  
Attn: Mr. J. E. Embry  
Bartlesville, Oklahoma 74003

Mr. R. F. Sawyer  
Sinclair Oil and Gas Company  
P. O. Box 1470  
Midland, Texas 79702

Mr. H. F. Defenbaugh  
Sinclair Oil and Gas Company  
P. O. Box 521  
Tulsa, Oklahoma 74102

Mr. W. F. Burns  
Sinclair Oil and Gas Company  
P. O. Box 1920  
Hobbs, New Mexico 88240

Virginia Sears & Mary Jo  
Vandiver, Co-executives  
700 Hermosa Drive  
Artesia, New Mexico 88210

Mr. Jack B. Shaw  
for: Emily Katherine Flint Boyd  
Rosemary Flint  
Virginia Woods Shaw  
Box 517  
Artesia, N. M. 88210

Fair Oil Company  
for: Fair N&N Trust  
Richard L. Ray, Trustee  
P. O. Box 689  
Tyler, Texas 75701

Mr. J. P. Pierce  
3621 Westcliff Road South  
Fort 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  
9809 Everwood Lane  
El Paso, Texas 79925

Mary Katherine Fowles  
2415 Larkin  
San Francisco, Calif. 94109

Sally Seeber  
6921 East Hawthorne  
Tucson, Arizona 85700

Charlotte W. Runyan  
Hope, New Mexico 88250

12-20-67

MCA UNIT

WATER INJECTION WELL DATA

Lease & Well No.	Total Depth and/or PBD	Surface Casing			Production Casing			Producing Interval			
		OD	Depth	Sacks Cement	Top	OD	Depth		Sacks Cement	Top	
MCA Unit No. 1 3 6 7 15 220 223 232 246	4123/4101	8 5/8"	137	100	Surface	5 1/2"	4122	700	2000	P 3638-4012 (overall)	
	4146/4005	8 5/8"	922	75	Surface	7"	3575	75	2700	OH 3575-4005	
	4100/4060	8 5/8"	805	50	Surface	7"	3525	100	2500	OH 3525-4060	
	4160/4028	8 5/8"	140	100	Surface	5 1/2"	4107	275	2700	P 3978-3994	
	4074	8 5/8"	834	50	Surface	7"	3634	150	2000	OH 3634-4074	
	4283/3884	8 3/4"	1195	50	Surface	7"	3566	100	2500	OH 3566-3884	
	4137	8 3/4"	29	15	Surface	5 1/2"	3558	250	2000	OH 3885-4137	
	4167	8 3/4"	1124	75	Surface	7"	3755	170	2000	OH 3755-4167	
	5462	8 5/8"	830	50	Surface	7"	3628	100	2000	OH 3628-4100 (overall)	
	Wm. Mitchell B No. 7 No. 8 No. 12 No. 13	4336/4135	9 5/8"	207	100	Surface	5 1/2"	4335	1450	1235	P 3784-4112 (overall)
		4200/4187	8 5/8"	229	100	Surface	5 1/2"	4200	1425	Surf.	P 3758-3838 (overall)
		4200/4035	8 5/8"	234	100	Surface	5 1/2"	4199	800	500	P 3714-3934 (overall)
4160/3766		8 5/8"	264	100	Surface	5 1/2"	4159	500	775	P 3660-3766 (overall)	
State "B" No. 3 No. 6 No. 7	4318/4300	9 5/8"	182	100	Surface	5 1/2"	4318	1000	1673	P 3754-3812 (overall)	
	4196	8 5/8"	237	125	Surface	5 1/2"	4196	1890	775	P 3868-4071 (overall)	
	4147	8 5/8"	254	135	Surface	5 1/2"	4147	1575	725	P 3869-3946 (overall)	
State "O" No. 1	4100	8 5/8"	848	50	Surface	7" *	3493	2000	100	**P 3700-4050 (overall)	

(No Intermediate casing in these wells)

\*Propose to set 4 1/2" OD liner from 3250" to new TD of 4100', and cement 4100' to 3250' w/70 sx cement.

\*\*Proposed perf.

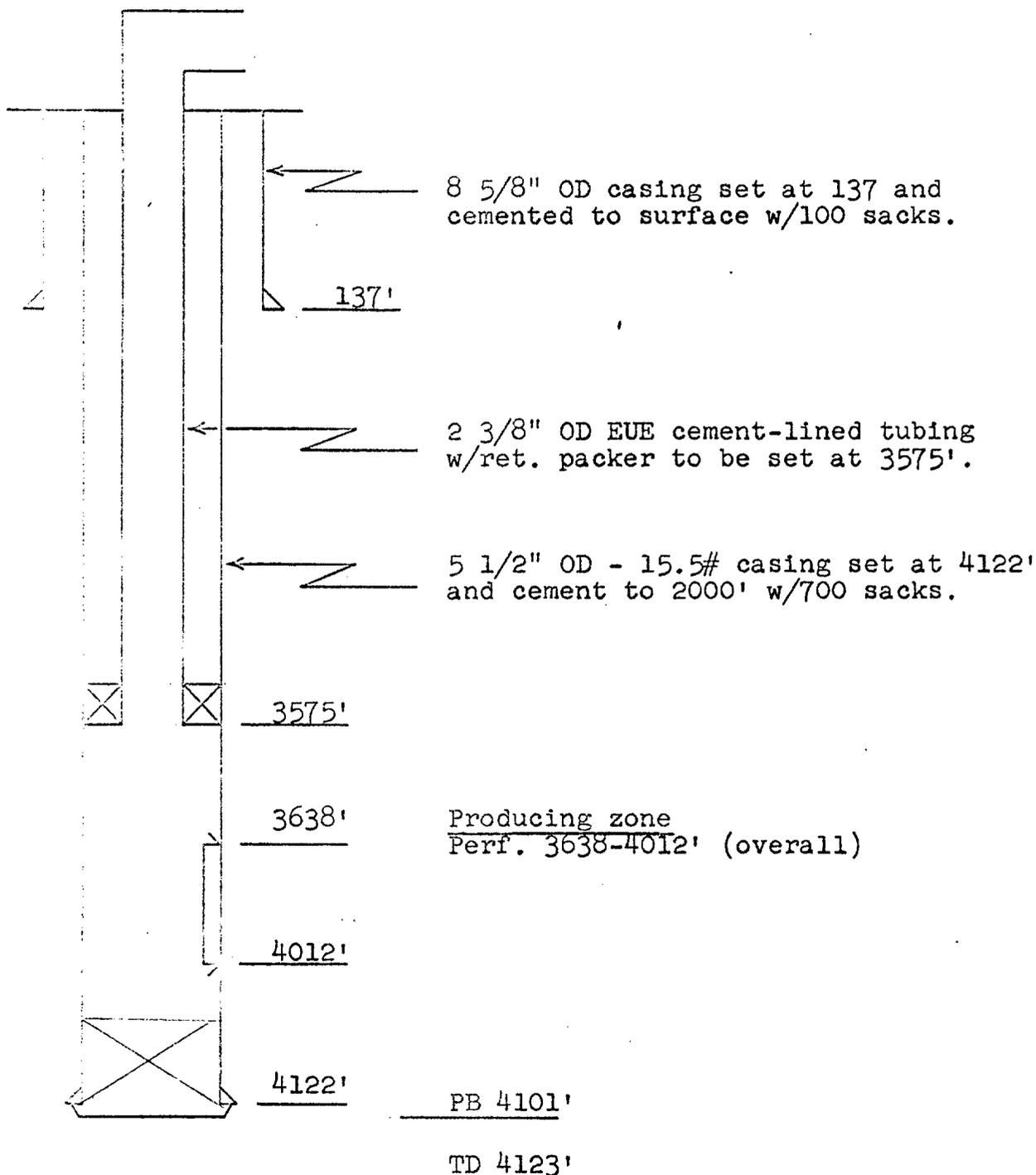
WATER INJECTION WELL DATA

MCA Unit No. 1

Unit B - 690' FNL & 1980' FEL Sec. 17-17S-32E

Elev - CL - 4037'

DF - 4047'



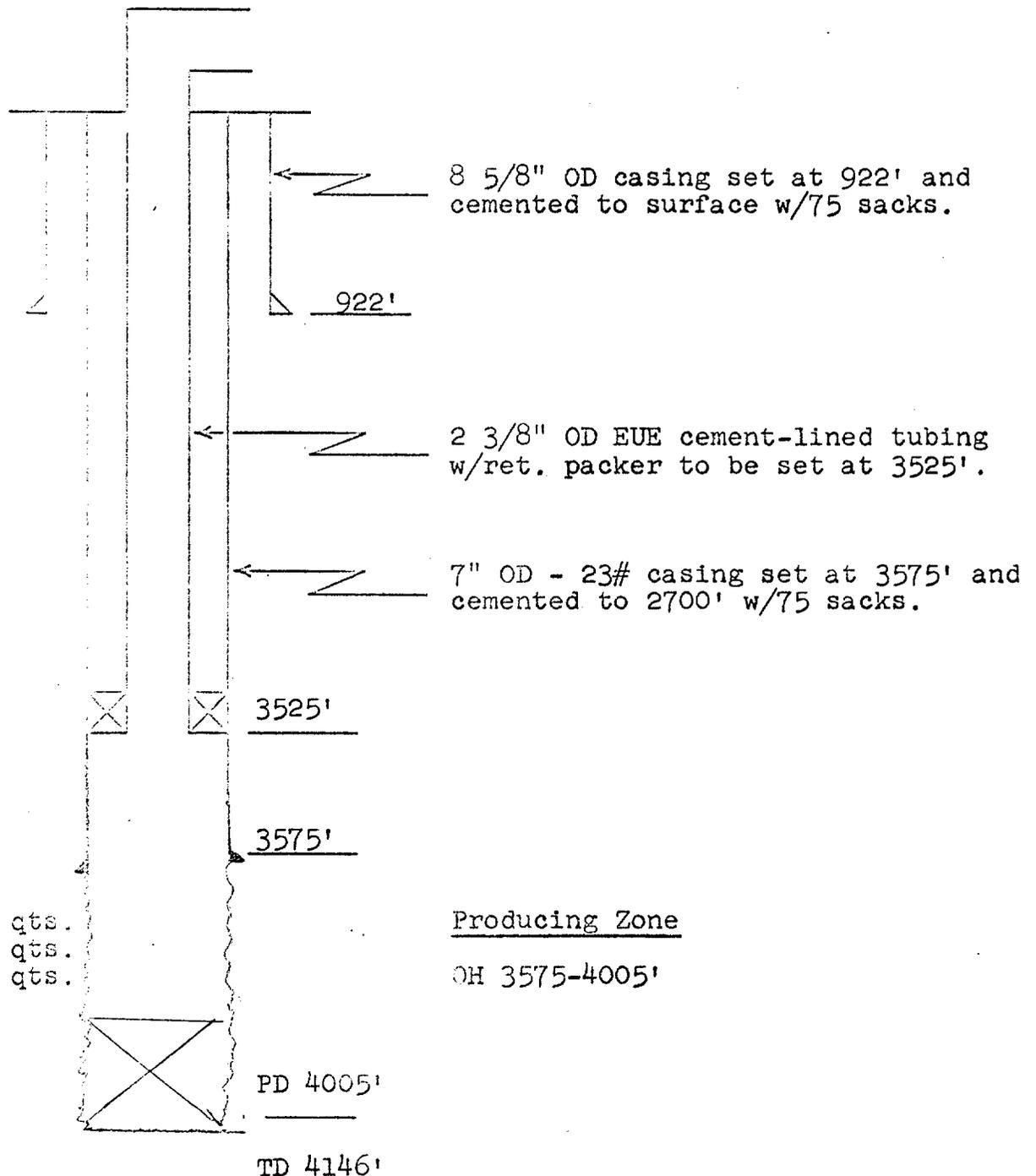
Proposed Procedure

1. Tag bottom and tally out.
2. Clean out to 4101'(PD) if fill found above 4020'.
3. Run cement-lined tubing w/packer to be set at 3575'.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
MCA Unit No. 3

Unit D- 660' FNL & 660' FWL Sec. 16-17S-32E  
 Elev - GL - 4050'  
 DF - 4053'



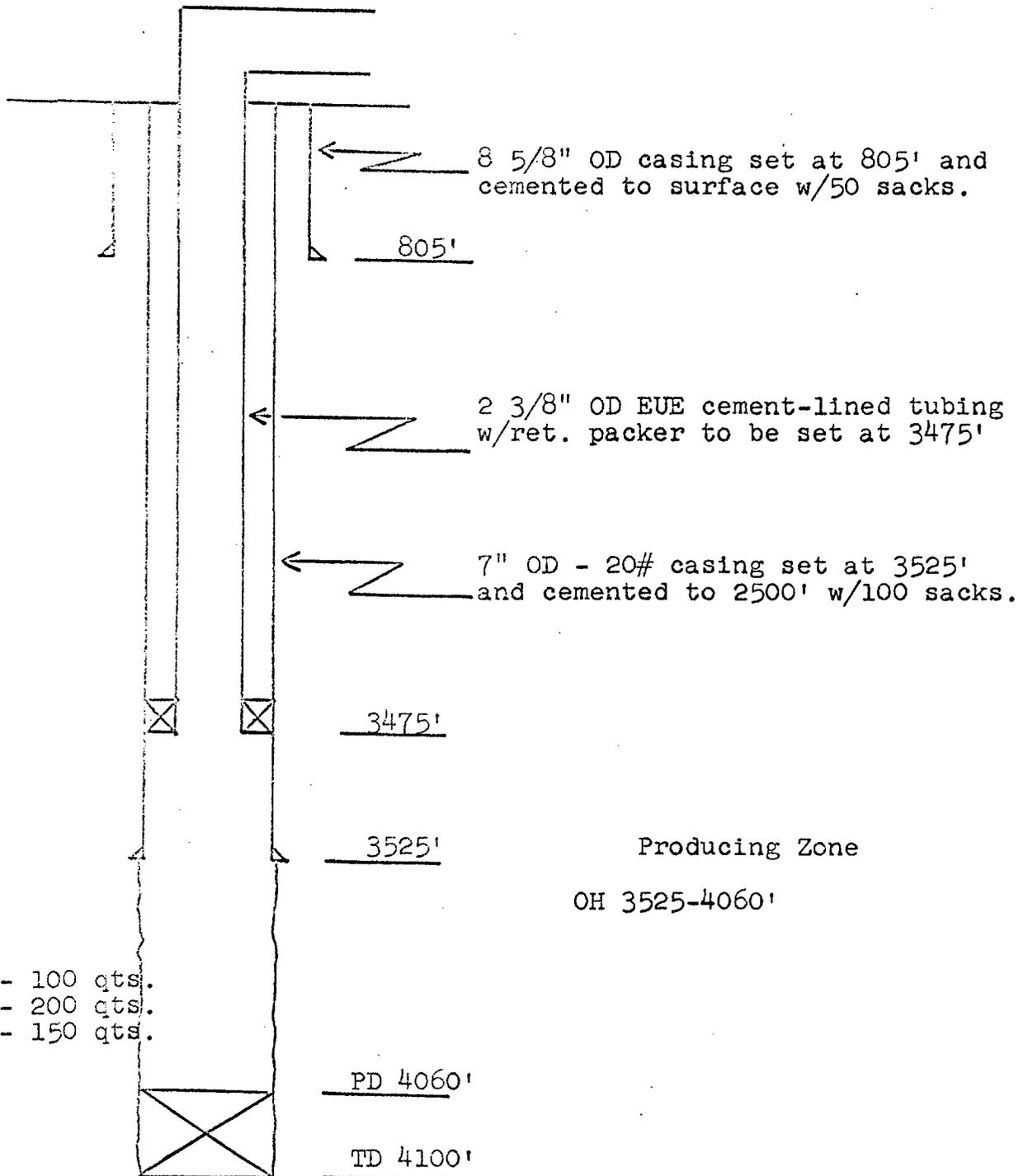
Proposed Procedure

1. Tag bottom and tally out.
2. Clean out any fill to PD of 4005'.
3. Run 3 joints open end tubing - make wireline dummy run to determine if injection survey tools can be run through shot hole.
4. Run gamma ray-neutron log w/caliper 4005-3100'.
5. Run cement-lined tubing w/packer to be set at 3525' - run 1 1/2" fiber glass pipe as tailpipe if required.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
MCA UNIT NO. 6

Unit H - 1980' FNL & 660' FEL Sec. 17-17S-32E  
 Elev. DF - 4031'



Proposed Procedure

1. Tag bottom and tally out.
2. Clean out any fill to 4060'.
3. Run 3 joints open end tubing - make wireline dummy run to determine if injection survey tools can be run through shot hole.
4. Run gamma ray - neutron log w/caliper 4060-3100'.
5. Run cement-lined tubing w/packer to be set at 3475' - run 1 1/2" fiber glass pipe as tailpipe, if required.

NOTE: Tubing to be electronically inspected on rack.

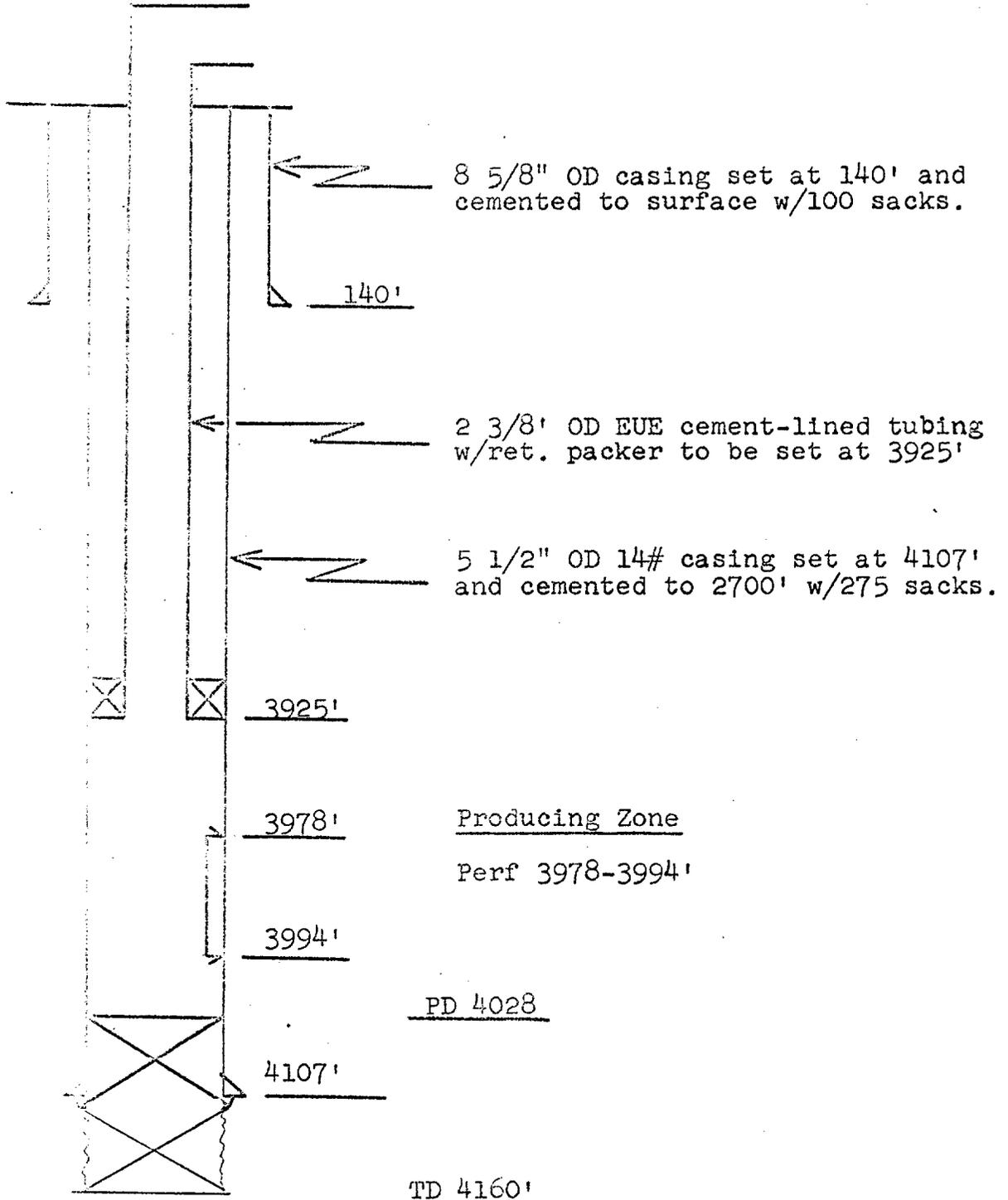
WATER INJECTION WELL DATA

MCA Unit No. 7

Unit F - 1650' FNL & 2310' FWL Sec. 17-17S-32E

Elev. CL - 4024'

DF - 4032'



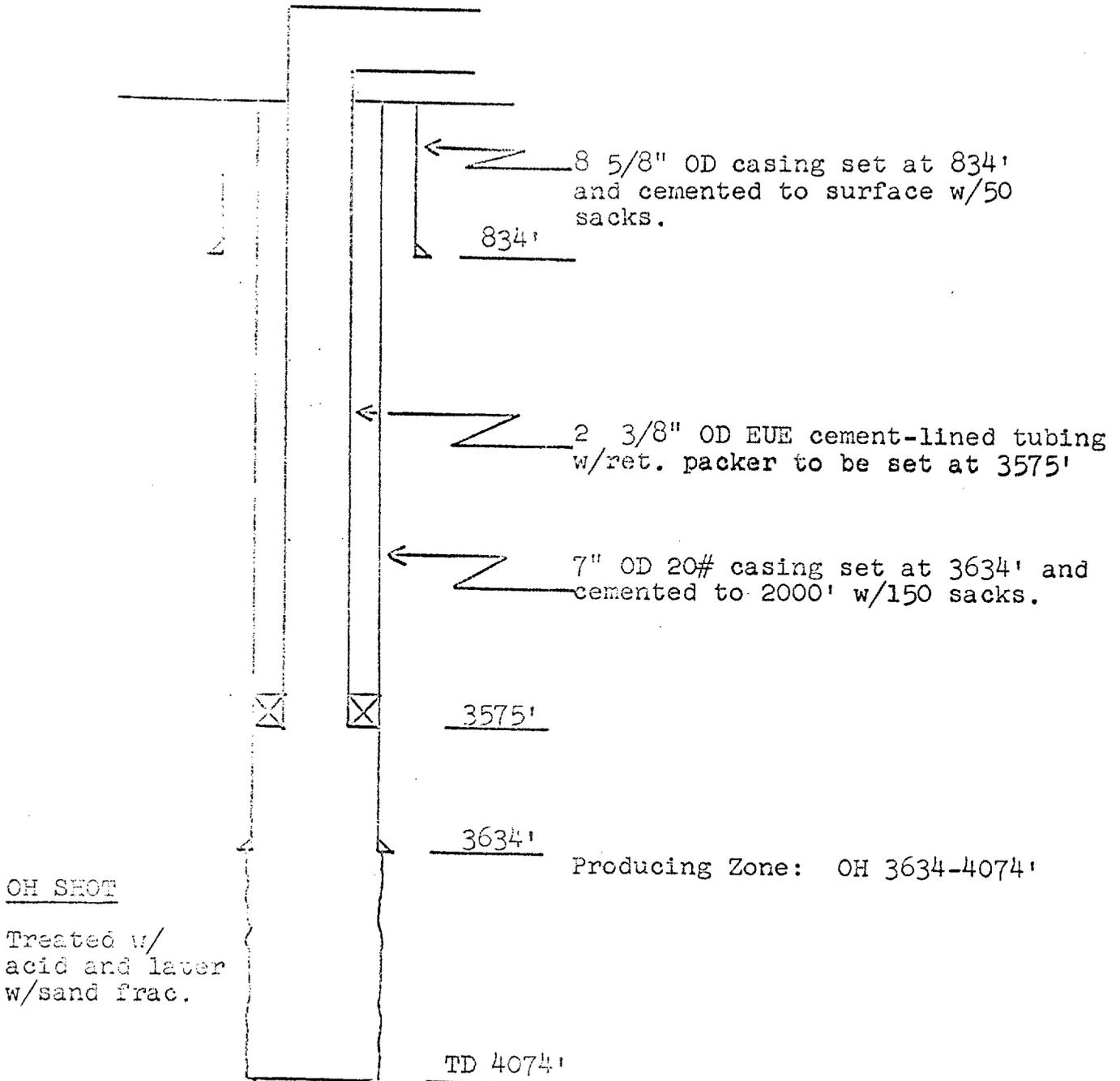
Proposed Procedure

1. Tag bottom and tally out.
2. Clean out any fill to 4028'
3. Run cement-lined tubing w/packer to be set at 3925'.

NOTE: TUBING TO BE ELECTRONICALLY INSPECTED ON RACK.

WATER INJECTION WELL DATA  
MCA Unit No. 15

Unit N - 660' FSL & 1980' FWL Sec. 17-17S-32E  
Elev. DF-3990'



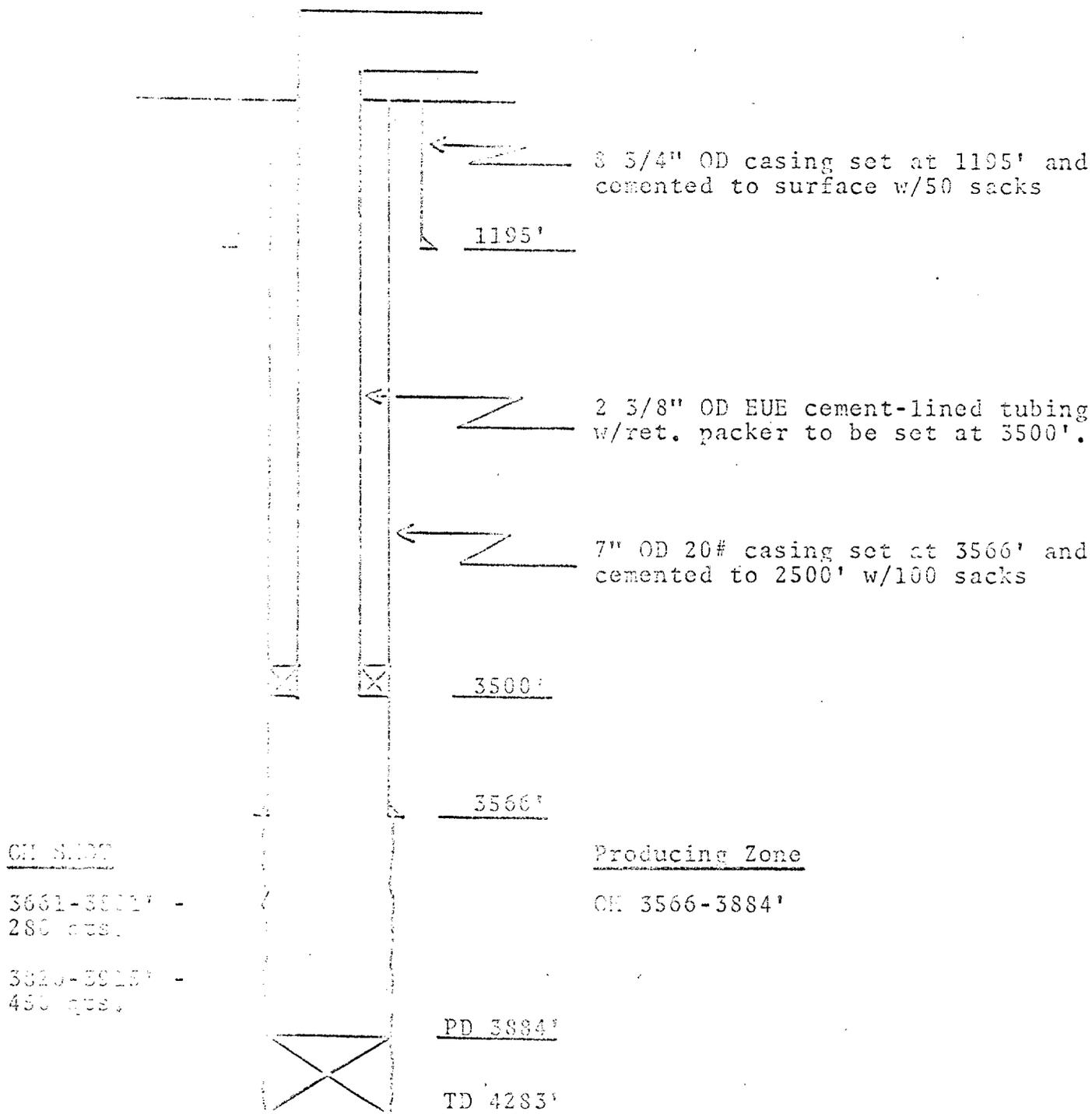
Proposed Procedure

1. Tag bottom and tally out.
2. Clean out any fill to TD of 4074'
3. Run cement-lined tubing w/packer to be set at 3575'

NOTE: TUBING TO BE ELECTRONICALLY INSPECTED ON RACK.

WATER INJECTION WELL DATA

MCA UNIT NO. 220  
UNIT "D" - 660' FNL @ 3663' FWL, SEC. 33-17S-32E  
ELEV. - DF - 3927'

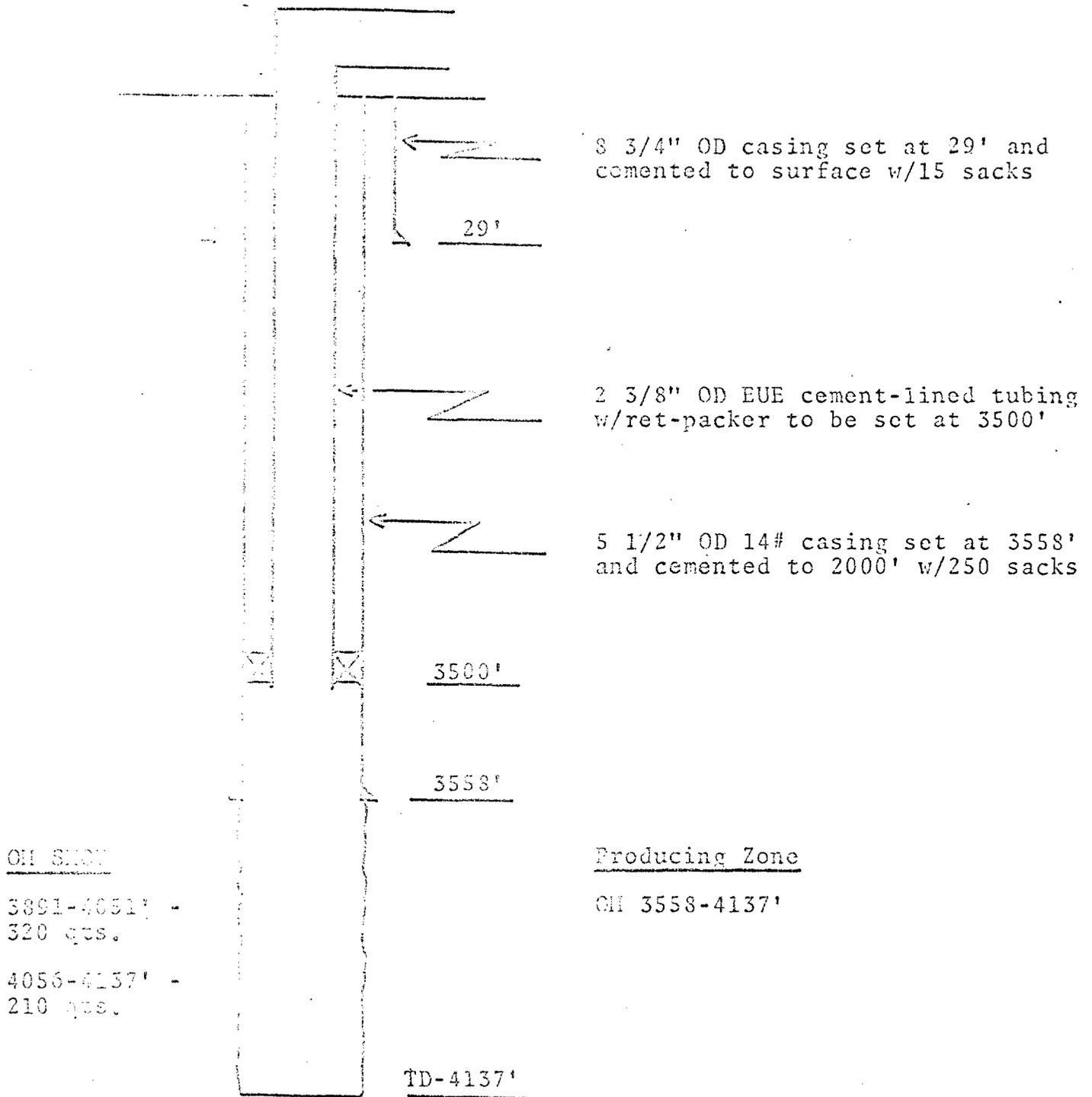


PROPOSED PROCEDURE

1. Log bottom and tally out.
2. Cleanout and drill out to new PD of 4090' if possible - if not possible to obtain circulation cleanout and drill out will be done after well pressures up.
3. Run tubing with retrievable packer to be set at approximately 3500' and commence injection. (If unable to drill out - unlined tubing will be run and used until drill out work is completed, then cement-lined tubing will be run.) Tailpipe will be run to 4070', if required for running injectivity surveys.

WATER INJECTION WELL DATA

MCA UNIT NO. 223  
UNIT "B" - 660' FNL & 1980' FEL, SEC. 33-17S-32E  
ELEV. - BF - 3938'



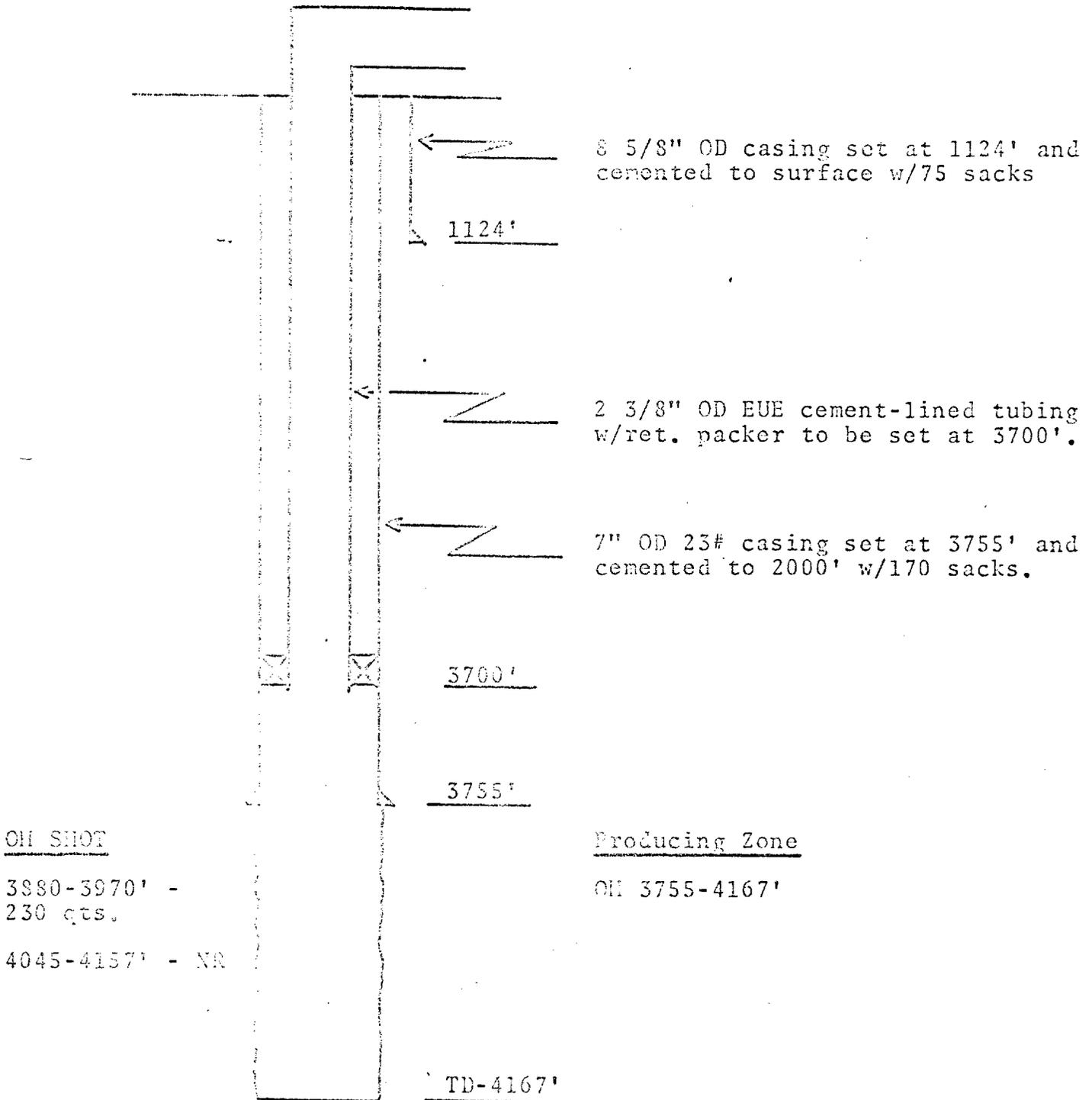
PROPOSED PROCEDURE

1. Tag bottom and tally out.
2. Cleanout to TD of 4137' if possible - if not possible to obtain circulation, cleanout will be done after well pressures up.
3. Run tubing with packer to be set at approximately 3500' and commence injection. If it is required to pressure up well prior to cleanout - unlined tubing will be run initially and cement-lined tubing will be run after cleanout is completed. Tailpipe will be run to 4120', if required for running injectivity surveys.

NOTE - Gamma ray-neutron log to be run 4137-3200' prior to running cement-lined tubing.

WATER INJECTION WELL DATA

MCA UNIT NO. 232  
WELL "F" - 1180' FNL & 1986' FWL, SEC. 33-17S-32E  
ELEV. - DF - 3916'

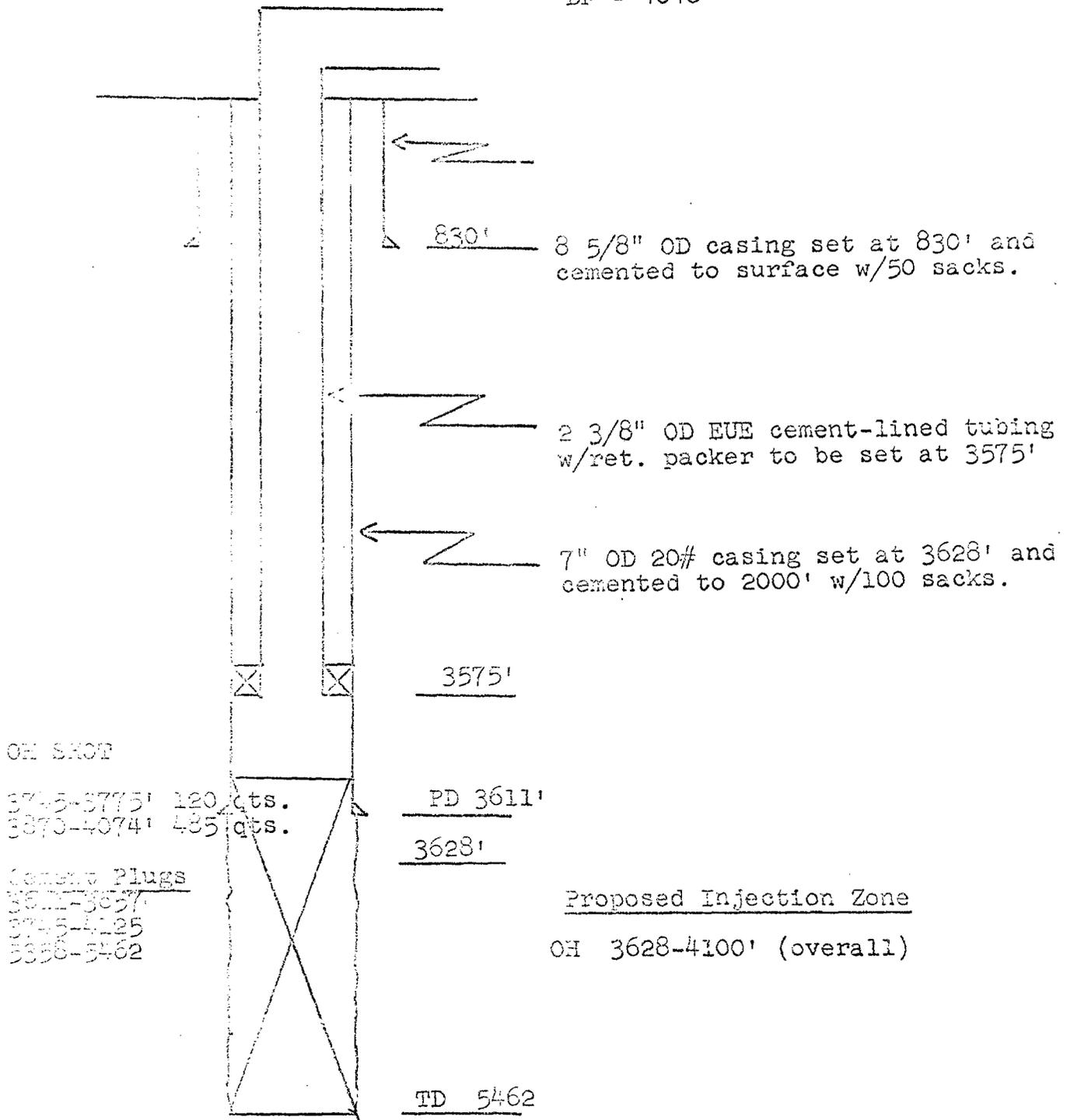


PROPOSED PROCEDURE

1. Tag bottom and tally out.
2. Cleanout to TD of 4167' if possible - if not possible to obtain circulation, cleanout will be done after well pressures up.
3. Run tubing with packer to be set at approximately 3700' and commence injection. If it is required to pressure up well prior to cleanout - unlined tubing will be run initially and cement-lined tubing will be run after cleanout is completed. Tailpipe will be run to 4150', if required for running injectivity surveys.

NOTE - Gamma ray-neutron log to be run 4167-3200' prior to running cement-lined tubing.

WATER INJECTION WELL DATA  
 On King "B" No. 1 (MCA Unit No. 246)  
 Unit P - 660' FSL & 660" FEL Sec. 17  
 17S-32E, - Elev. BHF - 4044'  
 DF - 4048'



Proposed Injection Zone  
 OH 3628-4100' (overall)

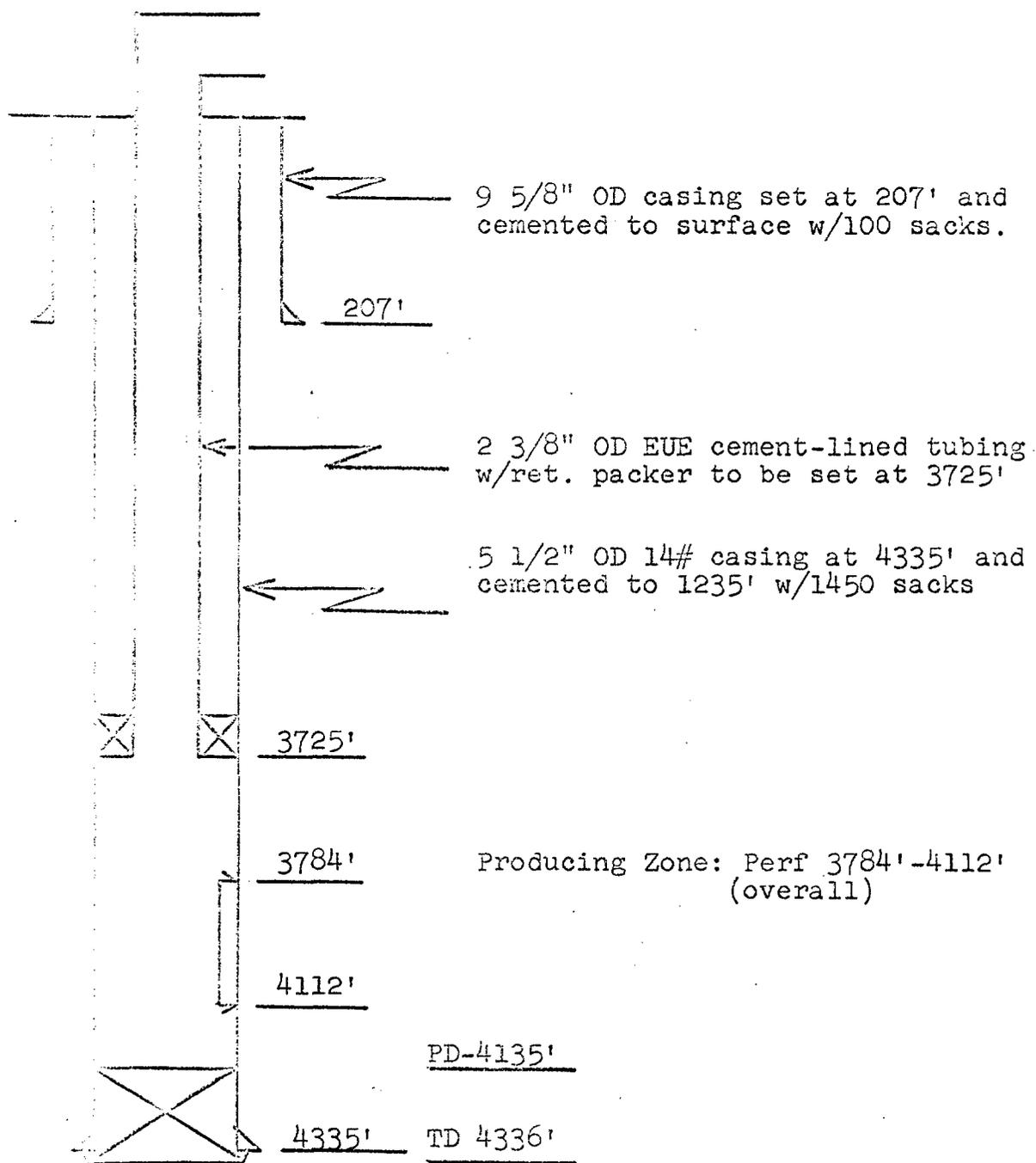
Proposed Procedure

1. Drill out cement plugs to new PD of 4100'.
2. Run gamma ray log w/caliper 4100-3100'
3. Perforate 3733, 3760', 3775', 3842', 3875', 3880', 3890', 4030', 4040' w/open hole jets and acid wash 5000 gal. 15% LSTNE (perf. will be reviewed after interpretation of caliper log.)
4. Run 3 joints cement line tubing - make dummy wireline run to determine if injection survey tools can be run through shot hole. Run cement-lined tubing w/packer to be set at 3575'.
5. Run 1 1/2" fiber glass pipe as tailpipe if required, depending upon dummy run.

WATER INJECTION WELL DATA

Wm. Mitchell "B" No. 7

Unit L - 1980' FSL & 660' FWL - Sec. 17-17S-32E  
Elev. DF 4008'

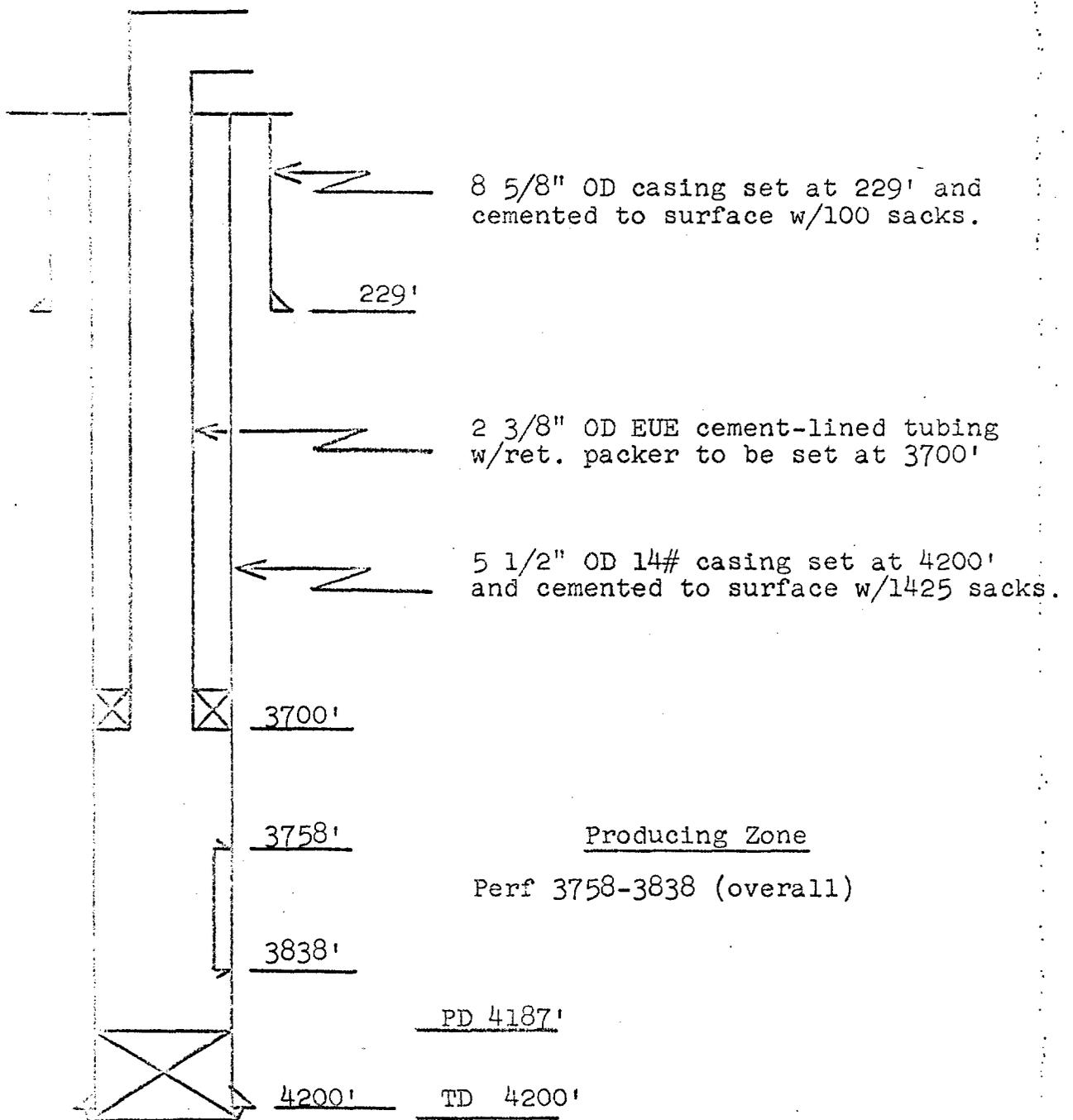


Proposed Procedure

1. Tag bottom and tally out.
2. If any fill found above 4120' - clean out to PD of 4135.
3. Run cement-lined tubing w/packer to be set at 3725'.

NOTE: Tubing to be electronically inspected on rack.

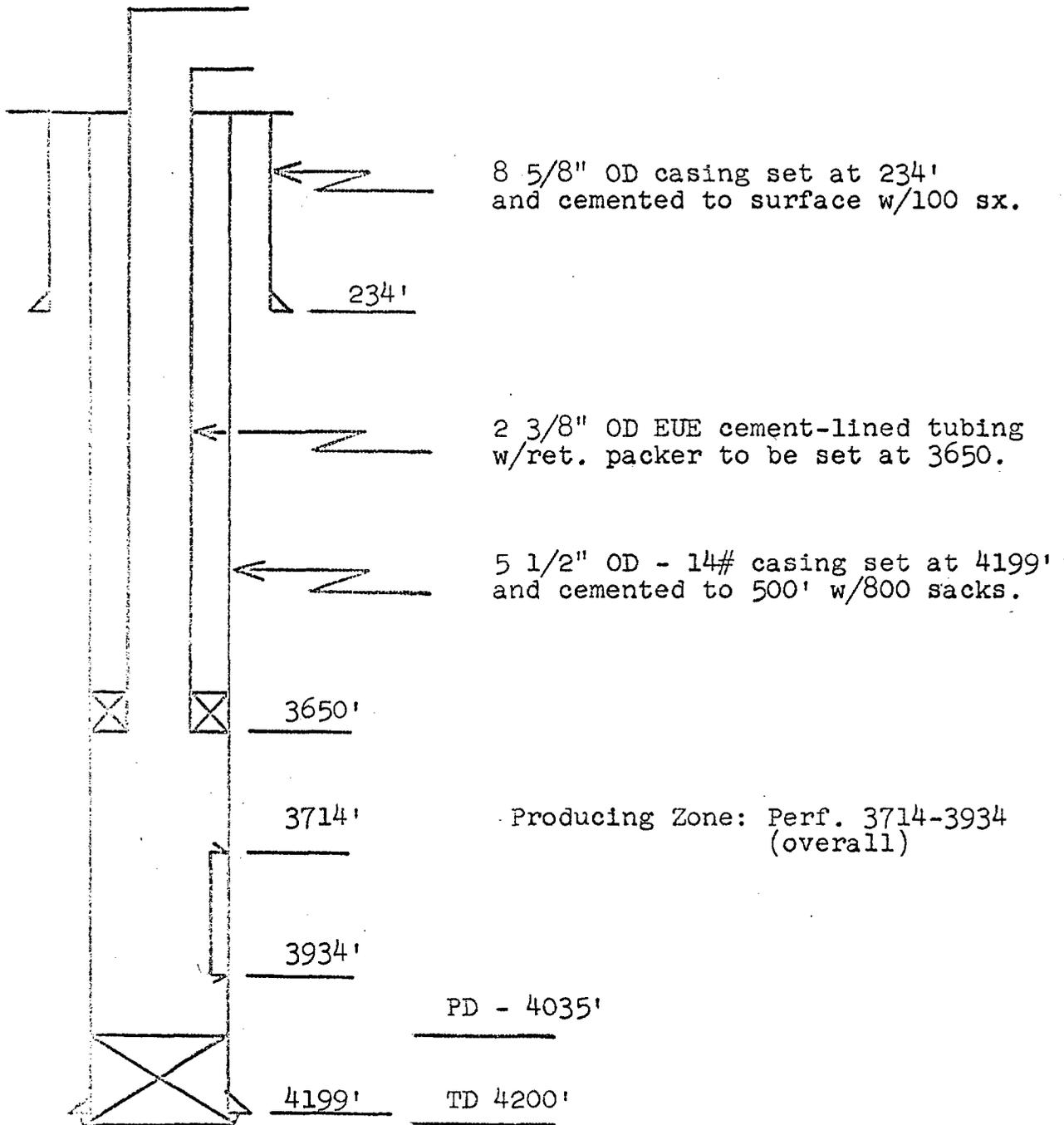
WATER INJECTION WELL DATA  
 Wm. Mitchell "B" No. 8 - Unit J -  
 1980' FSL & 1980' FEL, Sec. 17-17S-32E  
 Elev. BHF - 4008'  
 DF - 4017'



1. Tag bottom and tally out.
2. Clean out to 4187' (PD) if fill found above 3850'.
3. Run cement-lined tubing w/packer to be set at 3700'.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
 Wm. Mitchell "B" No. 12  
 Unit P - 660' FSL & 660' FEL Sec. 18-17S-32E  
 Elev - BHF - 3986'  
 DF - 3998'

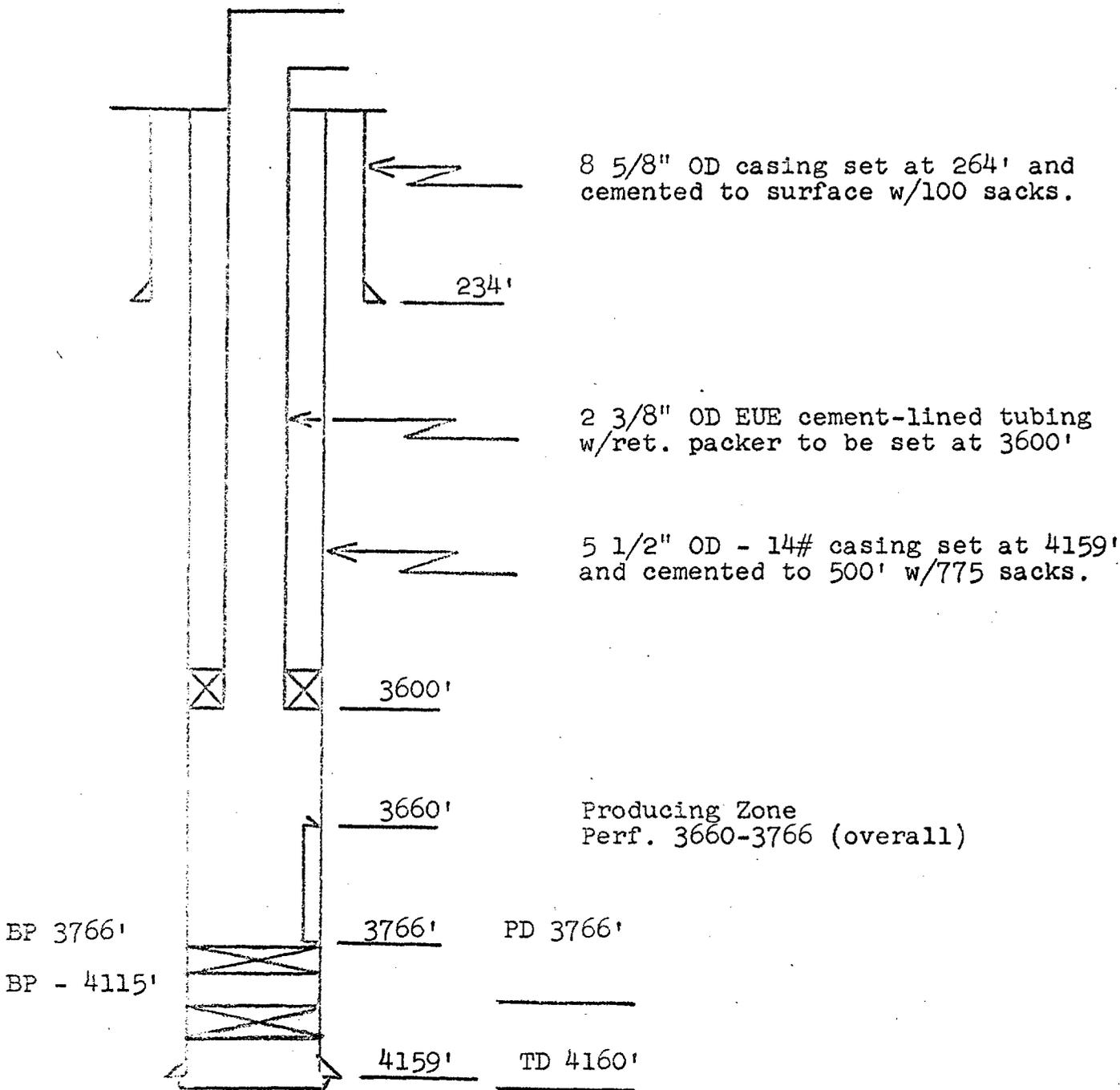


Proposed Procedure

1. Tag bottom and tally out.
2. Clean out to 4035' (PD) if any fill found above 3950'.
3. Run cement-lined tubing w/packer to be set at 3650.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
 Wm. Mitchell "B" No. 13 -  
 Unit N - 660' FSL & 1980 FWL Section 18,  
 17S-32E. Elev. BHF - 3955'  
 DF - 3964'

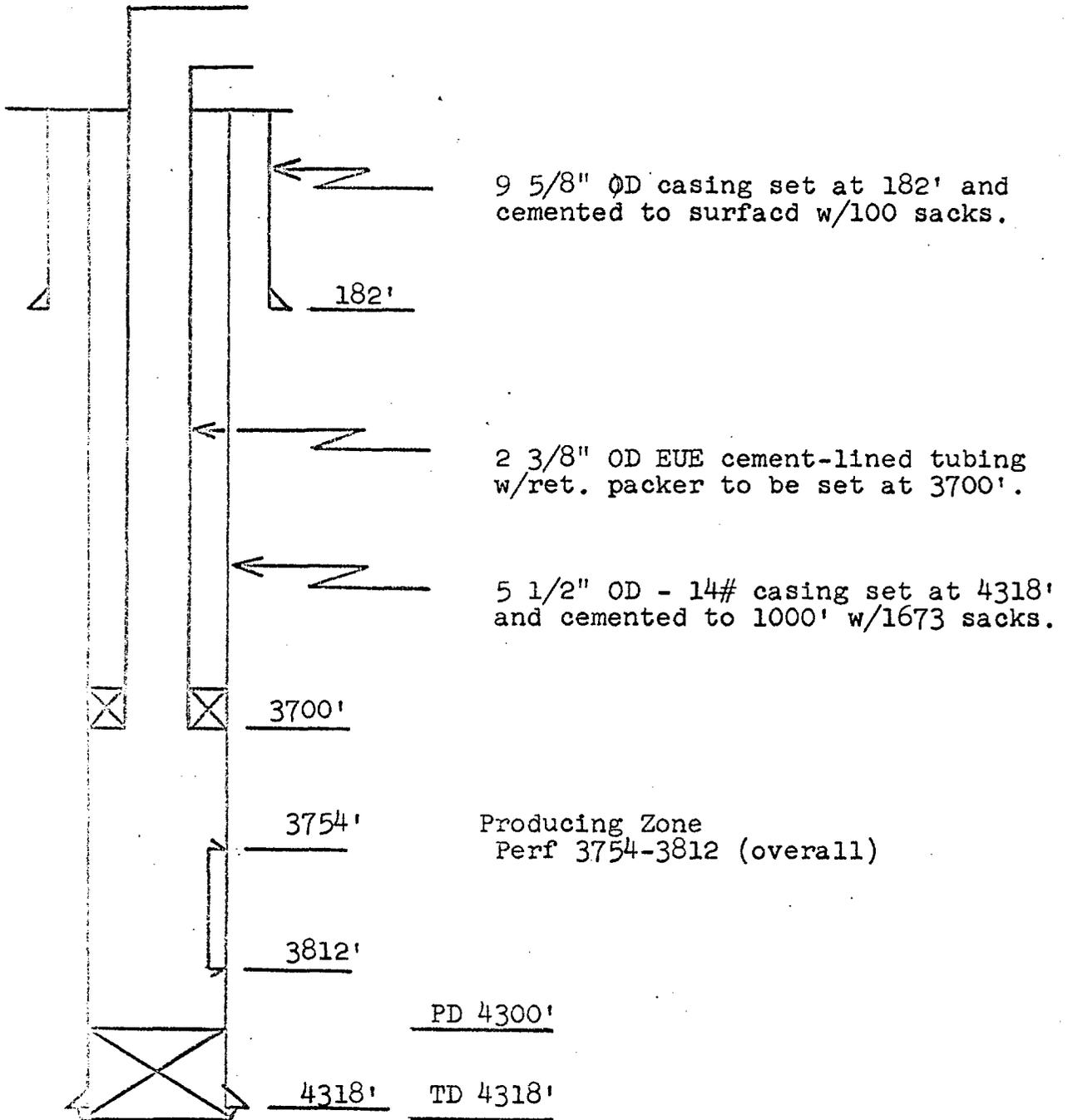


Proposed Procedure

1. Tag bottom and tally out.
2. If fill is found - drill out BP at 3766' and push to top of other BP at 4115'
3. Run cement-lined tubing w/packer to be set at 3600'

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
 State "B" No. 3  
 Unit J - 1980' FSL & 1980 FEL Sec. 16  
 17S-32E. Elev. BHF - 4029'  
 DF - 4040'

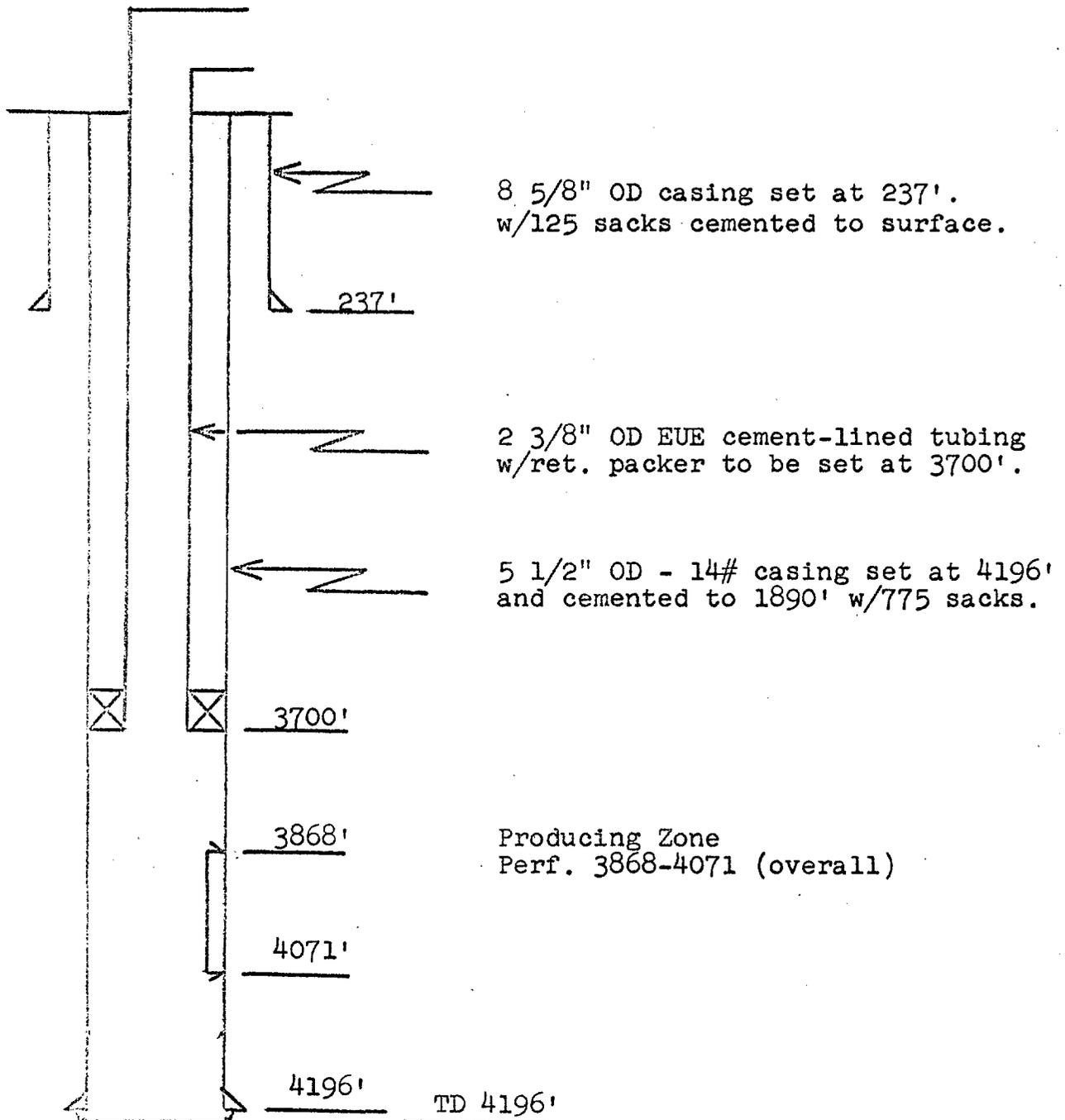


Proposed Procedure

1. Tag bottom and tally out.
2. If fill found above 3850- clean out to PD of 4300'.
3. Run cement-lined tbg. w/packer to be set at 3700'.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
 State B No. 6  
 Unit B - 660' FNL & 1980' FEL Sec. 16-17S-32E  
 Elev. BHF - 4086'  
 DF - 4096'

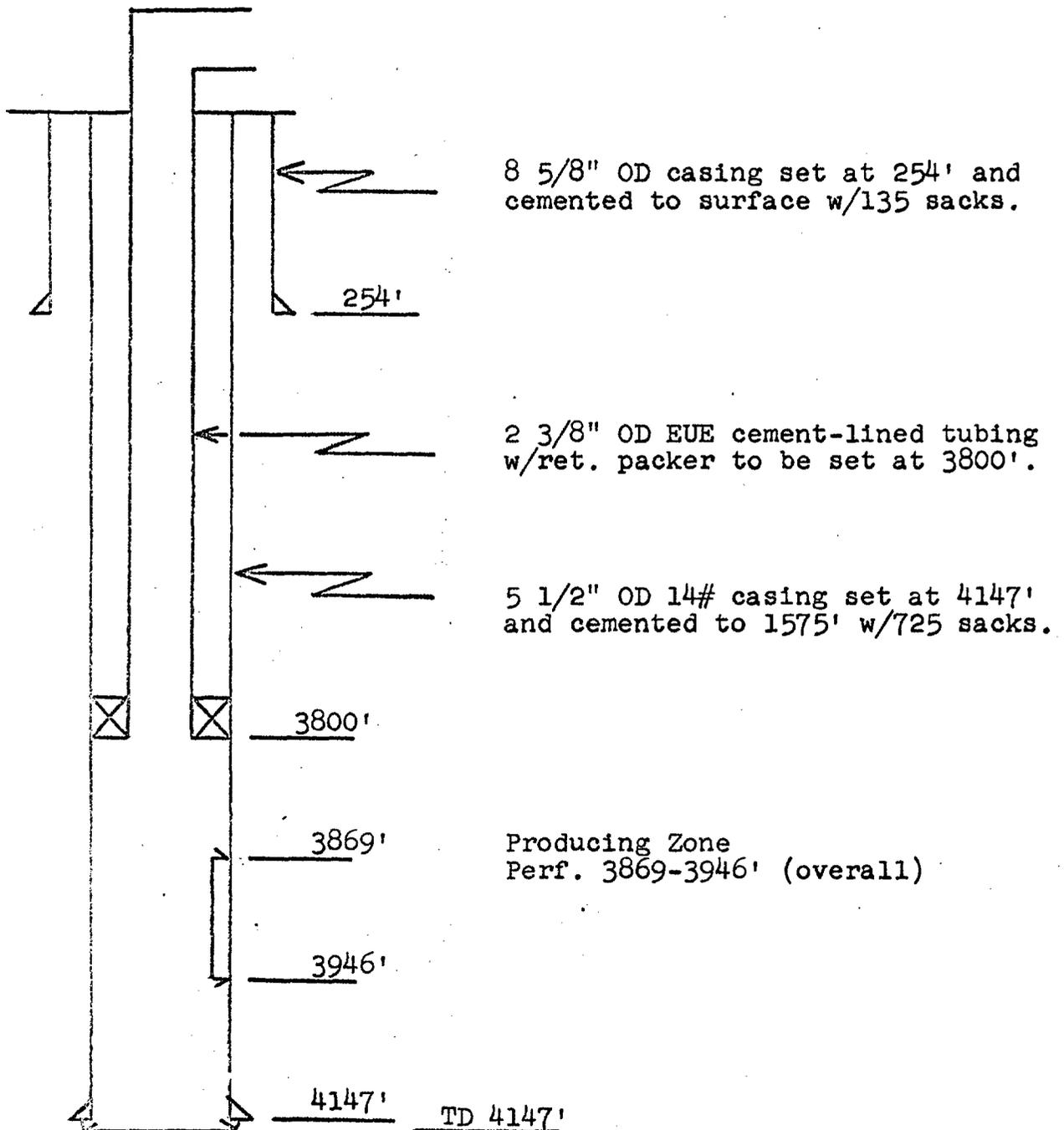


Proposed Procedure

1. Tag bottom and tally out.
2. Clean out to 4190' if fill above 4080'
3. Perf. w/1 JSPF - 3753-57', 3792-96', 3807-10, and 3816-22.  
Run 2 1/2" frac tubing w/RBP & packer. Treat perf. 3753'3822'  
w/1500 gal mud acid using ball sealers - follow w/20,000 gal  
sand-water frac w/20 gal ADOMALL, 400# guar and 500# ADOMITE  
AQUA. Swab back load water for 8 hours. Pull RBP and packer.
4. Run cement-lined tubing w/packer to be set at 3700'.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA  
 State "B" No. 7  
 Unit H - 1980' FNL & 660' FEL, Sec. 16-17S-32E  
 Elev. BHF - 4064'  
 DF - 4075'



Proposed Procedure

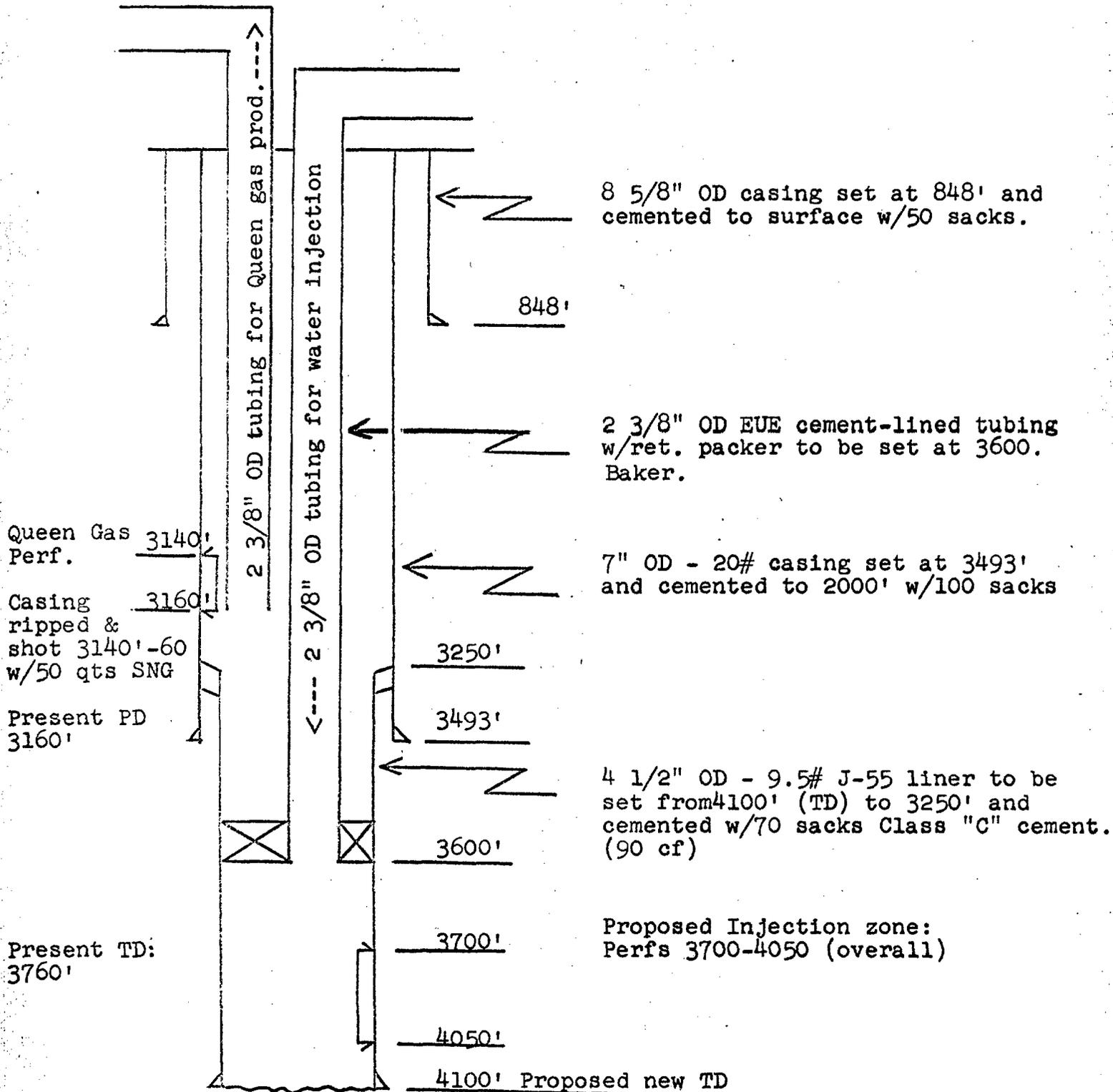
1. Tag bottom and tally out.
2. Clean out to 4140' if fill found above 4000'.
3. Run cement-lined tubing w/packer to be set at 3800'.

NOTE: Tubing to be electronically inspected on rack.

WATER INJECTION WELL DATA

State "O" No. 1  
(Queen Gas Well)

Unit F - 1980' FNL & 1980' FWL Sec. 16-17S-32E  
Elev. DF - 4065'



Proposed Procedure

1. Kill well with oil.
2. Rig up to drill w/gas.
3. Drill to new TD of 4100'. Load hole with oil.
4. Run gamma ray-neutron log w/caliper 4100 (TD) to 3100'.
5. Run 850' of 4 1/2" OD 9.5# J-55 as liner and set from 3250' to 4100'. Cement w/70 sx Class "C" cement (as determined from caliper survey)
6. Perf selected intervals and treat w/20,000# 20,000 gal sand-water frac w/400# Guar 500# ADOMITE AQUA and 20 gal ADOMITE ADOMALL. Swab back load for 8 hours.
7. Run tubing with packer to be set at 3600' for water injection.
8. Run tubng to be set at 3150' for gas production. Swab in gas.

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







MCA #220

**ILLEGIBLE**

MCA #232

ILLEGIBLE

*Handwritten scribble*

WELL LOG

KEWANEE OIL COMPANY

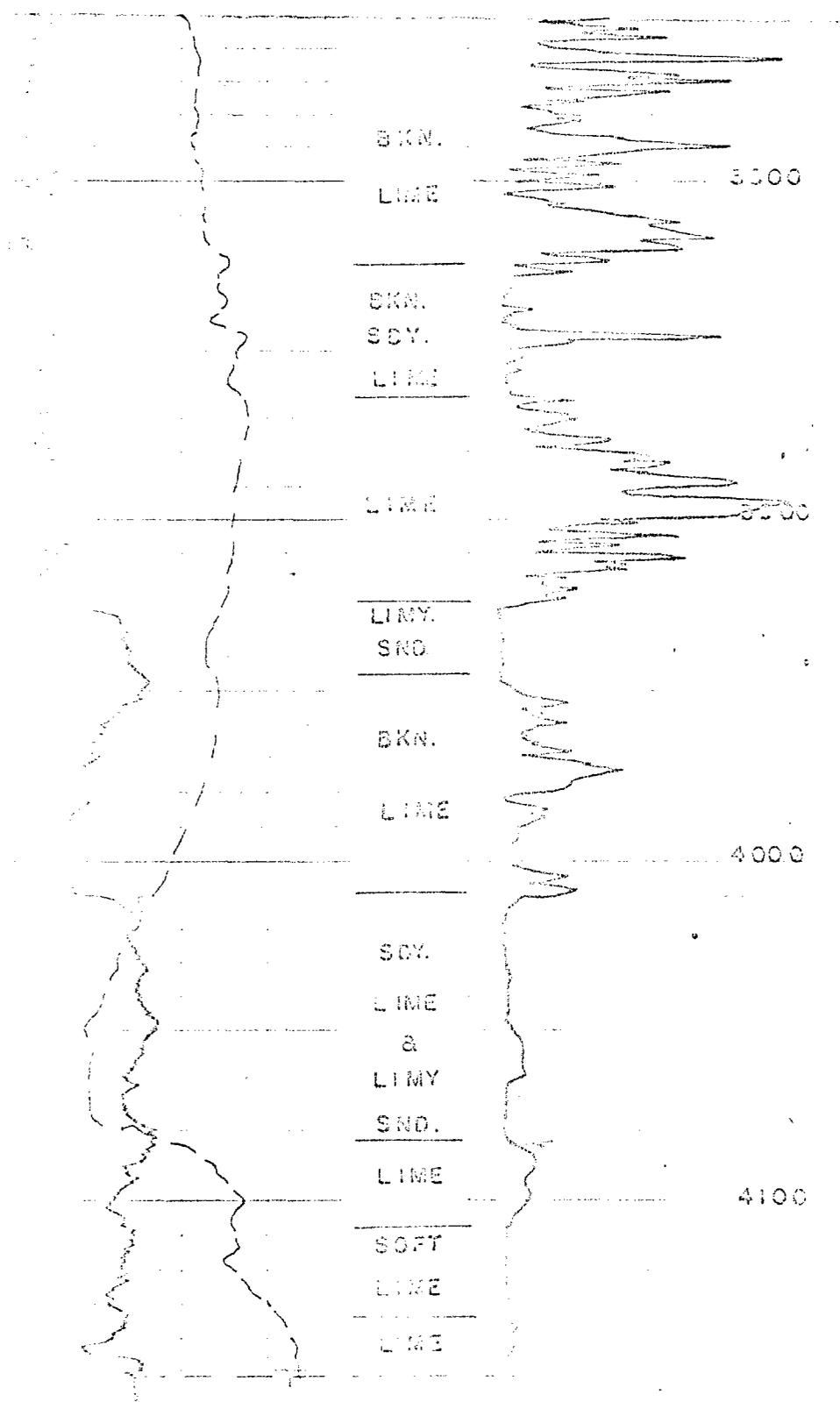
PEARSALL W. 34 N.

W. 34 N.

SECTION 33 TOWNSHIP 17 S. RANGE 32 E.

LEASING COMPANY

Lee STATE OF TEXAS



# ILLEGIBLE

Mitchell "B" #7

Other Surveys  
LL, MLL, ME  
Location of Well  
1980' FSL  
660' FWL

Elevation of  
or G.L. 2225

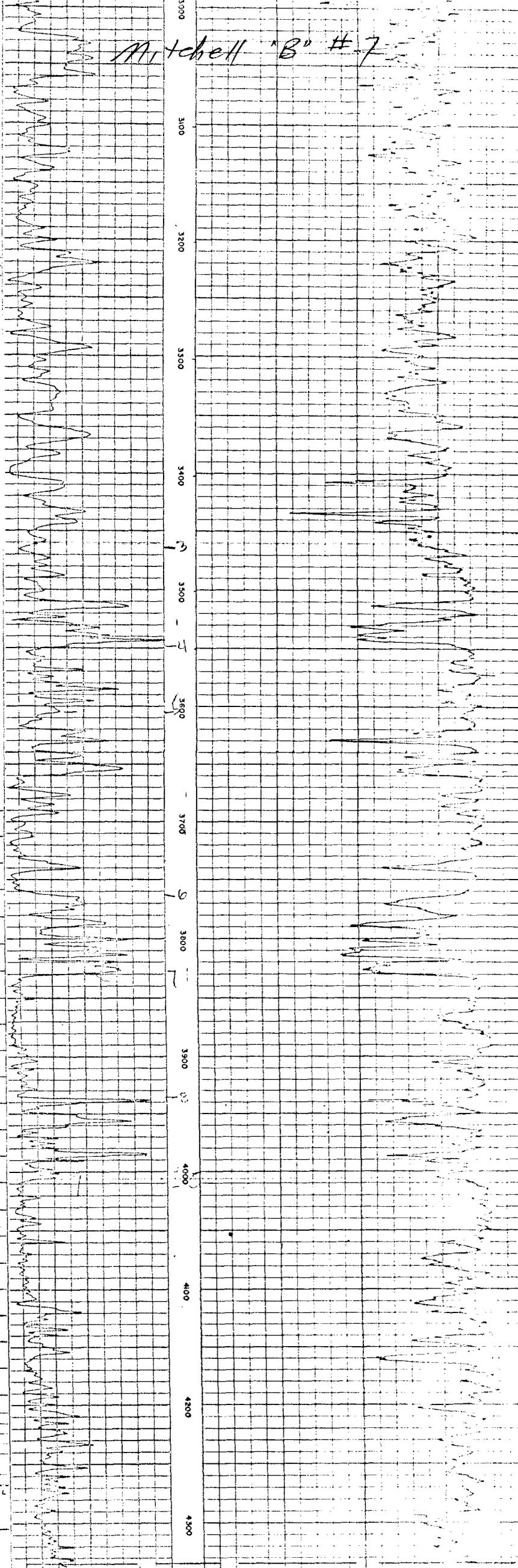
BRADEN HEAD

West Texas Electric Log Service



MODEL NO. 1103-H

4. INTERSECTION RECORD



INTERVAL TRANSIT TIME  
microseconds per foot  
Increases  
Spin



Mitchell "B" #12

Survey Data

Location of Well

Depth

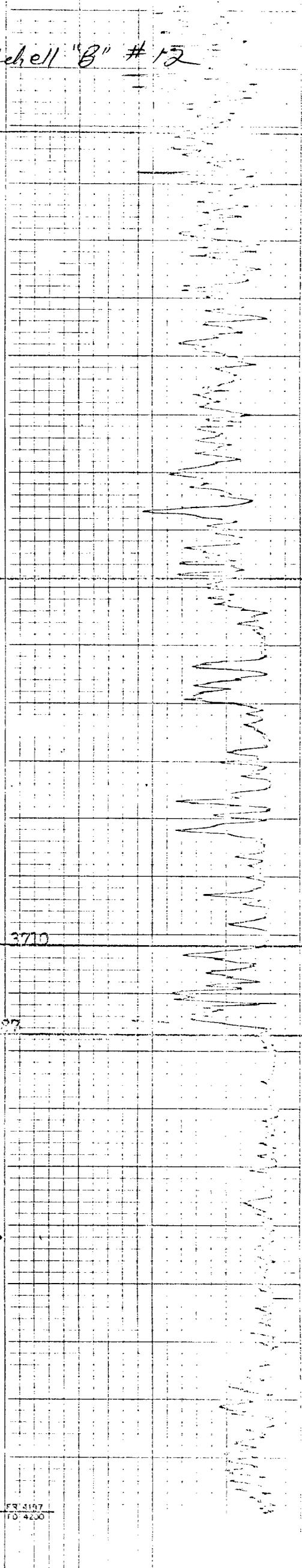
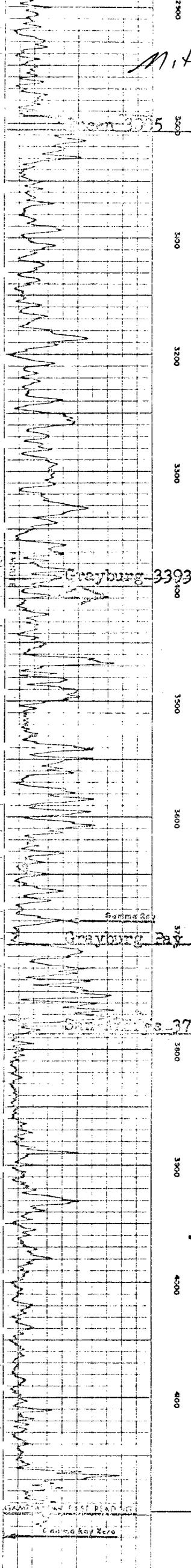
CC 30 min

16 16

16 16

*Handwritten notes:*

300



Well Data Mechanical Log Service

Date of Test

**ILLEGIBLE**

REFERENCE NO. 08

CONNECTION RECORD

DATE

TIME

RECORD

TEST NO.

WELL NO.

DEPTH

...

INTERVAL TRANSIT TIME  
microseconds per foot  
← increases →  
T<sub>1</sub> R<sub>1</sub> 2 R<sub>2</sub>  
34 TO 400

3500 TO 4107

70

FR 3157 TO 4200  
Casing Key Zero

Mitchell "B" #13

Well Name: Mitchell "B" #13  
 Location: 18-17S-32E  
 Section: 32E  
 Township: 18-17S  
 Range: 32E

Well Depth: 4000  
 Completion Date: 1958

Operator: Mitchell Energy & Services, Inc.

Log Date: 1958

Log Type: Spontaneous Potential

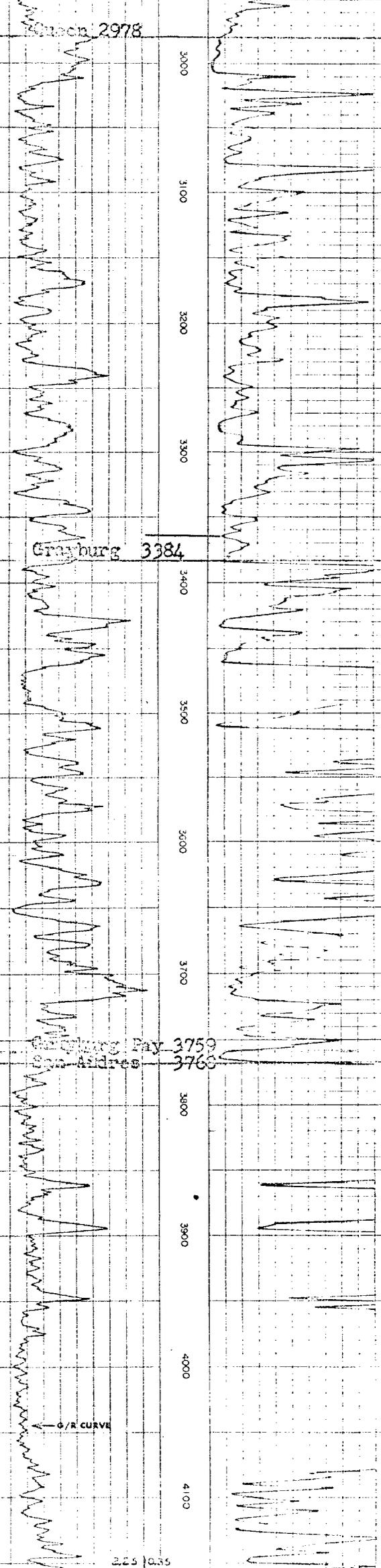
Recorded By: Mitchell Energy & Services, Inc.

City: Dallas, Texas

**ILLEGIBLE**

Log No. 2

2



2978

Grayburg 3384

Pay 3759

3760

LOGGING RECORD

RESISTIVITY

LOG READ

SP

REMARKS

SPONTANEOUS POTENTIAL MEASURED 1/2 HOURS AFTER CIRCULATION

SPONTANEOUS POTENTIAL

RESISTIVITY		COMPRESSED SCALE	
ohms. m'/m			
10	20	5	10
30	50	15	30
100	200	25	50
300	500	35	70
1000	2000	45	90

MONITOR

225 0.35





State "B" # 7

Other Surveys  
L.R.

Location of Well  
150' FROM W/L  
640' FROM L/L

Elevation 2010.00  
D. 100  
or G. 100

CC 30  
CC 30

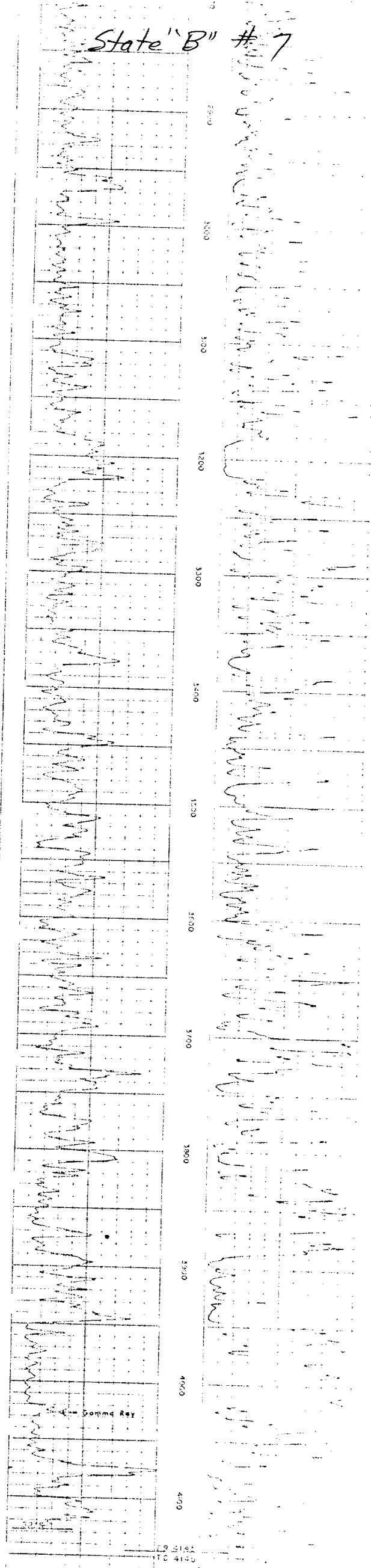
Wells & Drilling Log Service

Delta, Texas

W00000

WELL LOG

**ILLEGIBLE**



RESISTIVITY  
ohm m/m

5141  
4140