TEXAS PACIFIC OIL COMPANY
P. O. Box 1069
Hobbs, New Mexico 88240

75

August 23, 1968

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: A. L. Porter, Jr. - Secretary-Director

Re: Application for Salt Water
Disposal Injection Well
State "A" A/c-1 Well No. 101
Sec. 11, T-23-S; R-36-E
Lea County, New Mexico

Gentlemen:

Texas Pacific Oil Company respectfully requests administrative approval to use our State "A" A/c-1 Well No. 101 as a disposal injection well for salt water for surrounding wells. We hereby offer the following in evidence:

1. The water to be disposed of is mineralized to such a degree as to be unfit for domestic, stock, irrigation or any other general use.

2. The water will be injected into the San Andres formation which is unproductive in this area. A plat is attached showing all wells within a 2 mile radius of proposed injection well with all wells marked, to designate the formation from which said wells are producing or have produced.

3. A copy of that portion of the log on file with Oil Conservation Commission, Hobbs, New Mexico is attached, of the San Andres interval in which waters are to be injected.

4. A diagrammatic sketch is attached showing recompletion of said well.

5. Form C-108, Application to Dispose of Salt Water by Injection, has been mailed to all offset operators and the State Engineer. The State of New Mexico is the surface owner of the land.

6. The salt water will be injected to depths of 4080 - 5100' PBTD. Anticipated daily injection will be a minimum of 24,500 barrels. The water to be injected will come from the Tansill, Yates, Seven-Rivers and Queen formations.

Therefore, Texas Pacific Oil Company asks your authority in granting exception to Rule 701-A, without notice and hearing for disposal of waters as outlined above.

Sincerely,
TEXAS PACIFIC OIL COMPANY

Sheldon Ward
Area Superintendent

CRT:tk
Attachments
cc: Jim Wright, State Engineer - Roswell, New Mexico
Gulf Oil Corp. - P. O. Box 1150 - Midland, Texas

Form C-108
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR	ADDRESS
TEXAS PACIFIC OIL COMPANY	P. O. Box 1069 - Hobbs, New Mexico 88240

LEASE NAME	WELL NO.	FIELD	COUNTY
State "A" A/c-1	101	Langlie Mattix	Lea

LOCATION

UNIT LETTER M ; WELL IS LOCATED 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 11 TOWNSHIP 23-S RANGE 36-E NMPM.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	346'	350		
INTERMEDIATE	9-5/8"	4000'	3420	300'	Temp. Survey
LONG STRING					
TUBING	2-7/8"	4400'	NAME, MODEL AND DEPTH OF TUBING PACKER: 3-1/4" bore Model D @ 3950'		

NAME OF PROPOSED INJECTION FORMATION	TOP OF FORMATION	BOTTOM OF FORMATION
San Andres	4080'	5100'

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
Tubing	Open Hole	4080-5100'

IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
No	Oil	Yes

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

3670-3714' Squeeze with 75 sks.

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA
300'	3690'	None Producing

ANTICIPATED DAILY INJECTION VOLUME (BBLS.) MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
24,500		Closed	Gravity	Vacuum

ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE —	WATER TO BE DISPOSED OF	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?
	Yes	Yes	No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)

State Land

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (½) MILE OF THIS INJECTION WELL

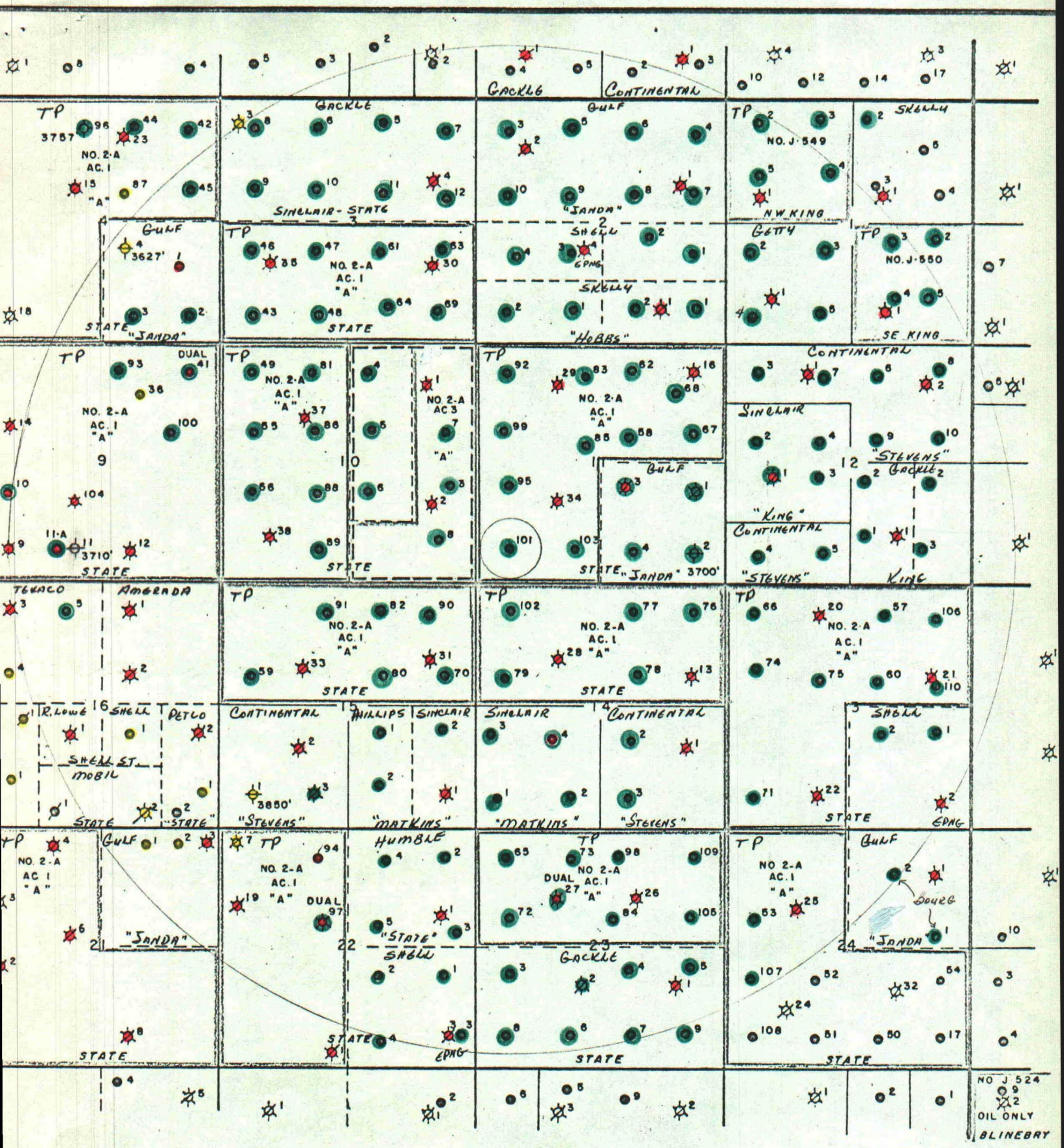
Gulf Oil Corp. - Box 1150 - Midland, Texas

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	THE NEW MEXICO STATE ENGINEER
	- -	Yes	Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL
	Yes	Yes	Yes

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

Signature	Title	Date
[signature]	Area Superintendent	8-23-68

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



R 36 E

TEXAS PACIFIC OIL CO.

LANGLIE MATTIX
JALMAT OIL
JALMAT GAS (DRY)

LEA CO., NEW MEXICO

SCALE: 2" = 1 mile

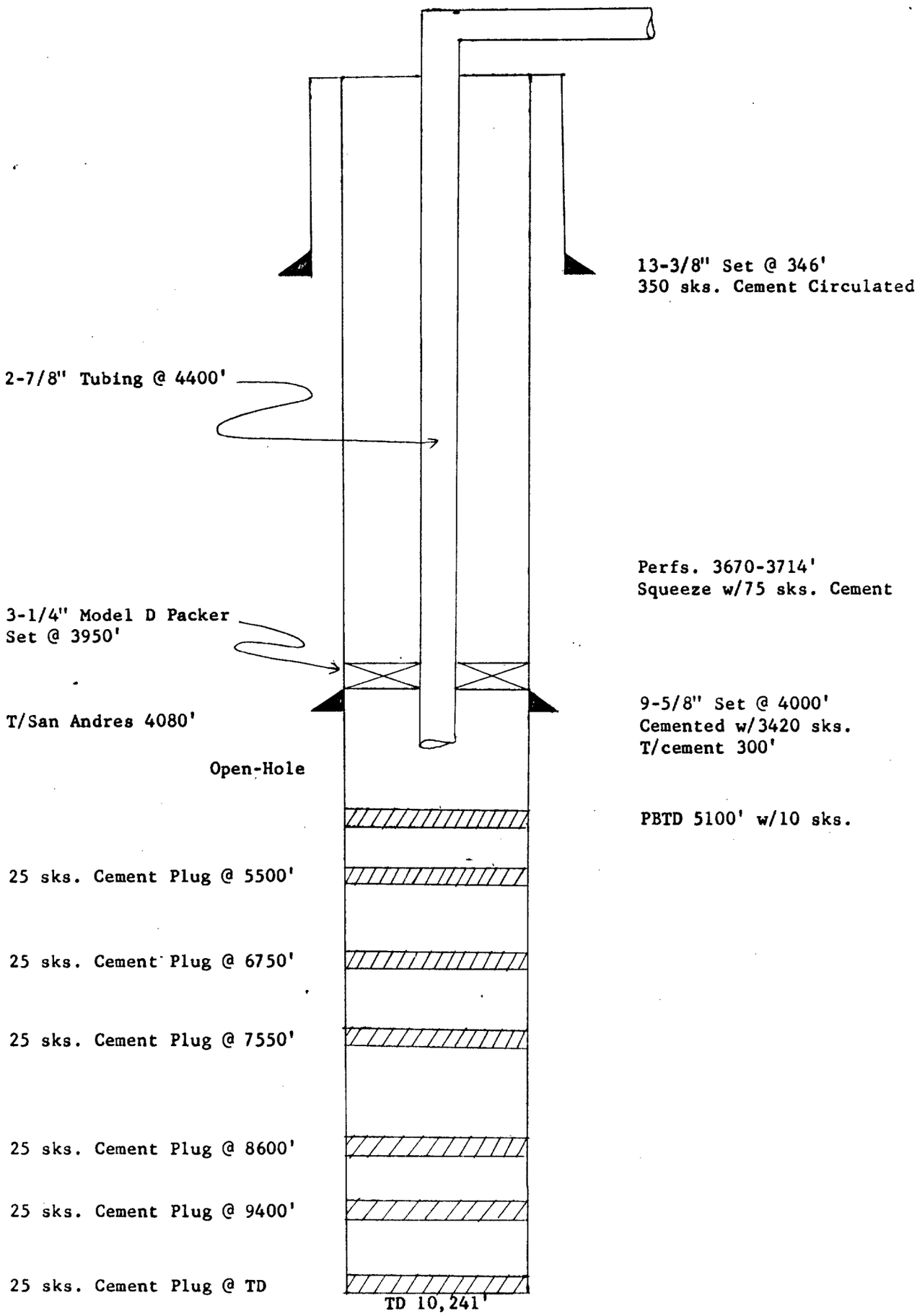
TEXAS PACIFIC OIL COMPANY

State "A" A/c-1 Well No. 101

Unit M Sec. 11, T-23-S; R-36-E

Proposed Salt Water Disposal Injection Well

Elev. 3418' GR



SCHLUMBERGER

COMPOSITE RESISTIVITY

COUNTY LEA
FIELD or LOCATION WILDCAT
WELL STATE "A" ACCT. 1 # 101
COMPANY TEXAS PACIFIC COAL AND OIL COMPANY

COMPANY TEXAS PACIFIC COAL AND OIL COMPANY
WELL STATE "A" ACCT. 1 # 101
FIELD WILDCAT
LOCATION SEC. 11-23S-36E
COUNTY LEA
STATE NEW MEXICO

Other Surveys
SGR

Location of Well
660' FROM S/L
660' FROM W/L

Elevation: K.B.: 3437
D.F.:
or G.L.: 3418
DAW

Log Depths Measured From	KB		
RUN No.	ONE (LL)		
Date	12-8 62		
First Reading	4002		
Last Reading	370		
Feet Measured	3632		
Csg. Schlum.	370		
Csg. Driller	368		
Depth Reached	4007		
Bottom Driller	4000		
Mud Nat.	SALT GEL, STARCH		
Dens. Visc.	NOT MEAS.		
Mud Resist.	.051	@ 69	F
" Res. BHT	.041	@ 90	F
" pH	-	@	F
" Wtr. Loss	145(M)	CC 30 min	
" Rmf (M)	.044	@ 70	F
" Rmc (M)	.165	@ 70	F
Bit Size	12¼"		
Laterolog 3	a= 6"	;L= 5'	
Laterolog 7	a=	;n=	
Opr. Rig Time	2 HOURS		
Truck No.	3701-HOBBS		
Recorded By	SCHAEFFER		
Witness	BAGWELL		

RUN No.	TWO (IES)		
Date	1-18-63		
First Reading	10246		
Last Reading	4002		
Feet Measured	6244		
Csg. Schlum.	4002		
Csg. Driller	4002		
Depth Reached	10248		
Bottom Driller	10241		
Depth Datum	KB 19' ABOVE GL		
Mud Nat.	GEL, QBROXIN, CAUSTIC		
Dens. Visc.	8.9 38		
Mud Resist.	1.13 @ 68 °F	@	F
" Res. BHT	.6 @ 128 °F	@	F
Rmf	@ °F	@	F
Rmc	@ °F	@	F
" pH	@ °F	@	F
" Wtr. Loss	6 CC 30 min.	CC 30 min.	
Bit Size	8¾"		
Spcgs.—AM	16"		
MN	34'6"		
IND.	6FF40		
Opr. Rig Time	4 HOURS		
Truck No.	2526-HOBBS		
Recorded By	WENDLAND		
Witness	PORTER		

FOLD HERE

REMARKS													
CALIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME	RECORDING						
	CPS.	CPS.	DIVISIONS	(FOR CAL.)	(RECORD)	CONST.	SPEED (FT. MIN)						
GAMMA RAY:	70	120	82.5	800	500	2/1	30/60						
RUN # 2 C.D. USED:	SC. 1½"	SBR 1											
PANEL NO. IRP-E 62													
IAP-D 96													
SONDE NO. IRS-K 122													
RM. .74 @ 85°													

RESISTIVITY ohms. m²/m

0

RESISTIVITY ohms. m²/m

1250
625
417
312
250
200
150
100
50
0

DEPTHS

Casing

0400

0

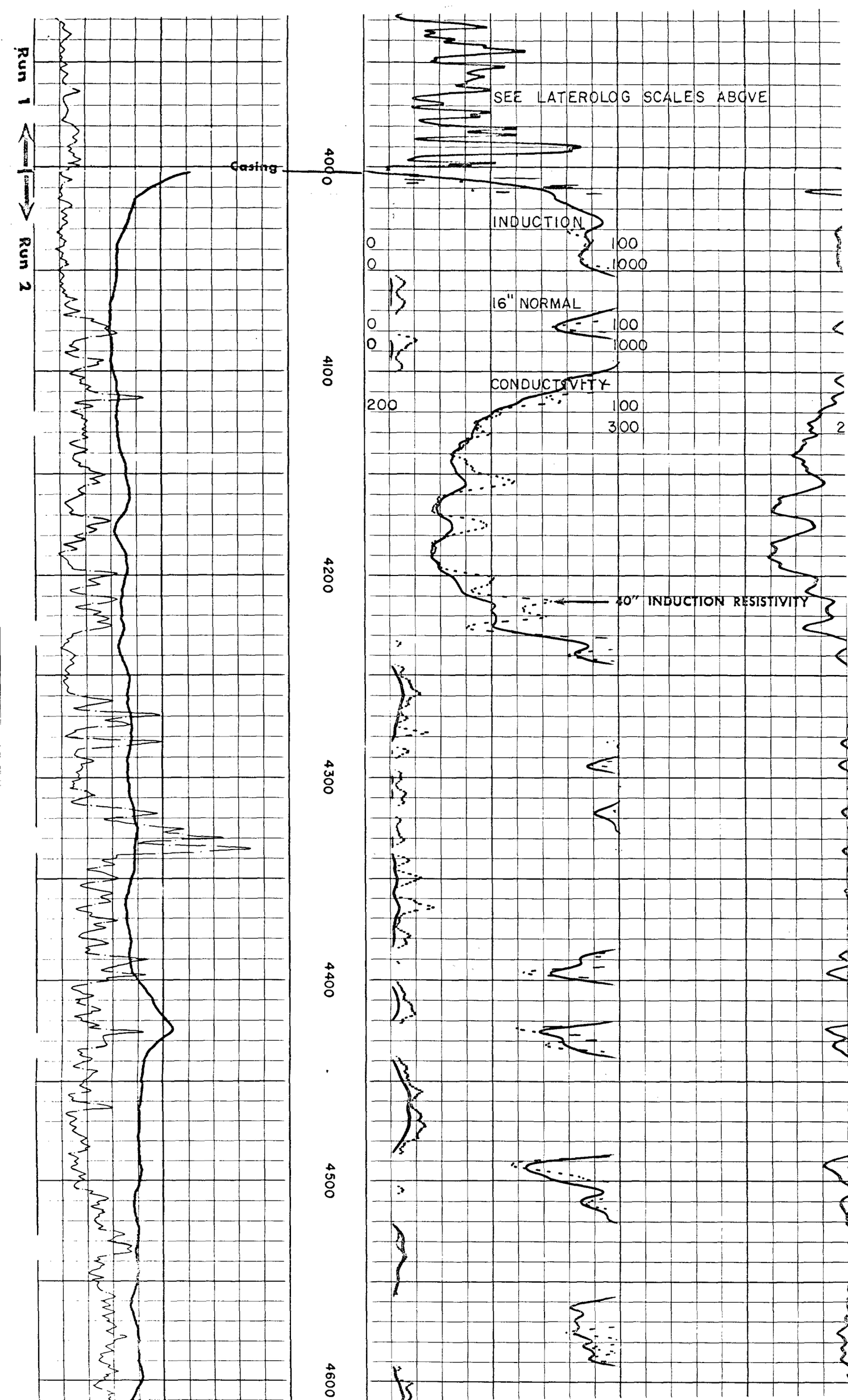
SPONTANEOUS-POTENTIAL millivolts

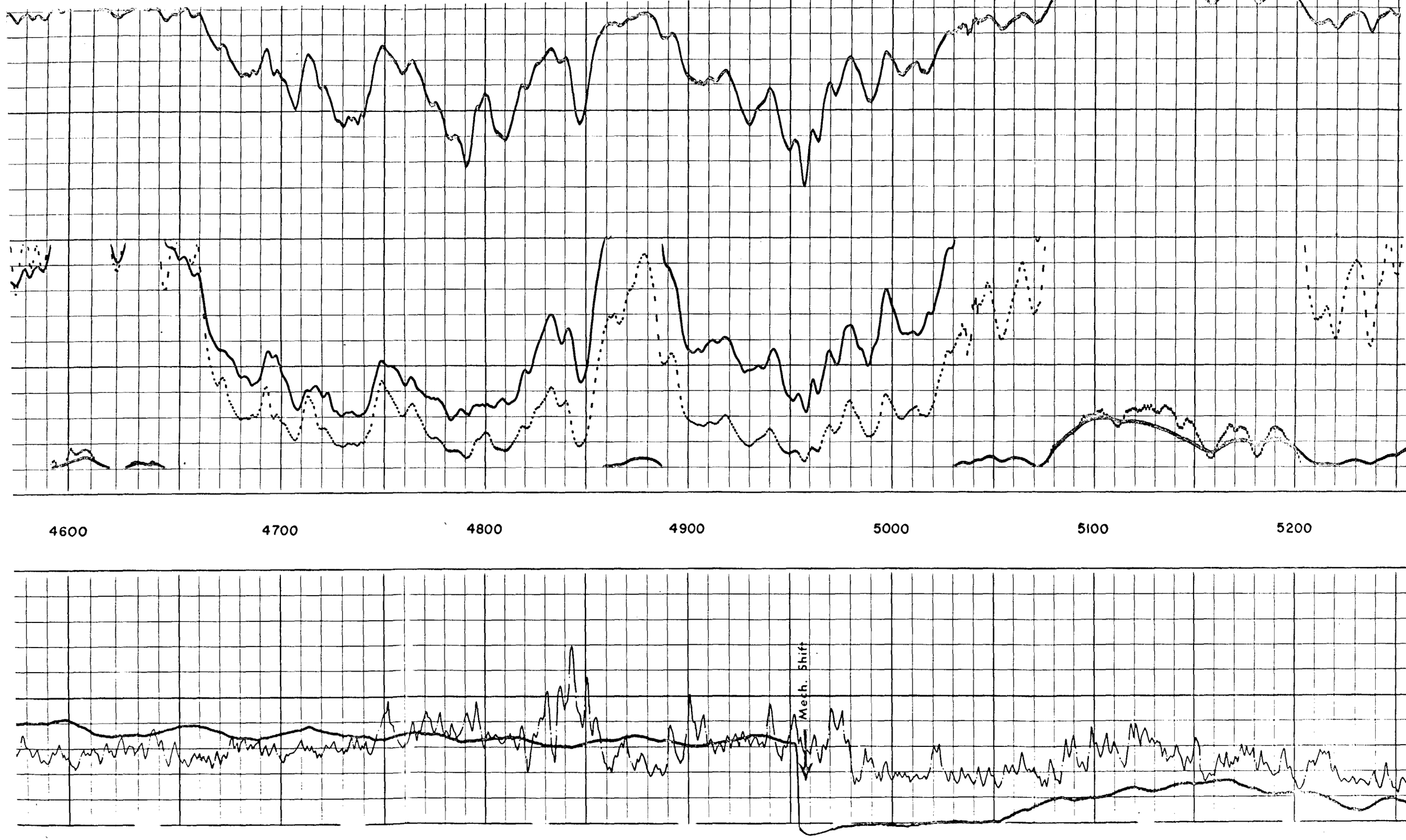
+
−

GAMMA RAY API UNITS

125
0

Gamma Ray


Run 1
Run 2
Casing
4000
4100
4200
4300
4400
4500
4600
SEE LATEROLOG SCALES ABOVE
INDUCTION
0
100
0
1000
16" NORMAL
0
100
0
1000
CONDUCTIVITY
200
100
300
40" INDUCTION RESISTIVITY


4600
4700
4800
4900
5000
5100
5200
Meth. Shift