

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: 21st Century Investment Company
c/o Walsh Engr. & Prod. Corp.
ADDRESS: 204 N. Auburn Farmington, New Mexico 87401
CONTACT PARTY: Paul C. Thompson PHONE: 505 327-4892
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary. See Appendix A
- IV. Is this an expansion of an existing project: ☒ Yes ☐ No
If yes, give the Division order number authorizing the project R-8966 Appendix B
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. See Appendix C
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, report of completion, and a schematic of any plugged well illustrating all plugging detail. See Appendix D
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any. None
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.) See Appendix F
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. Appendix E
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. Appendix G
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Paul C. Thompson TITLE: Agent
SIGNATURE: Paul C. Thompson DATE: 3/1/94
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping204 N. Auburn
Farmington, New Mexico 87401
(505) 327-4892

Application for Authorization to Inject

I. Purpose:

This Application is for an expansion of an existing waterflood project in the Mesa Gallup pool. Three currently producing oil wells are proposed to be converted to injection wells for the purpose of recovering secondary oil reserves.

II. Operator: 21st Century Investments
c/o Walsh Engineering and Production Corp.
204 N. Auburn
Farmington, NM 87401

Contact: Paul C. Thompson, P.E.

Phone: 327-4892

III. Well Data:

Well data for the three proposed injection wells is attached as Appendix A.

IV. This is an expansion of an existing project. The Division order number authorizing the project is R-8966. A copy of this Order is attached as Appendix B.

V. Maps:

A plat of all wells in the Mesa Gallup field and a topographical map are attached as Appendix C.

VI. Offset Wells

A tabulation of all offset wells as well as schematic drawings of all offsetting P&A's are attached as Appendix D.



VII. Proposed Operations:

1. Average Injection Rate = 250 B/D
Maximum Injection Rate = 300 B/D
2. The system will be closed.
3. Average Injection Pressure = 850 psig
Maximum Injection Pressure = 950 psig
4. The injected water will come from the Mesa Gallup Unit well #18 which is an Entrada well. This well was drilled as the water supply well for this water flood project. An analysis of this water is attached in Appendix E.
5. Injection is for secondary oil recovery in the Gallup formation. A chemical analysis of the Gallup formation water is attached in Appendix E.

VIII. Geologic Data:

Injection is proposed for the Cretaceous Gallup Sandstone. This zone is part of the Juana Lopez Member of the Mancos Shale. The Mancos shale extends from the surface to the top of the Gallup. There are no underground sources of drinking water above or below the Gallup Sandstone.

IX. Stimulation:

No stimulation is planned.

X. Logs:

Logs are attached in Appendix F.

- XI. No fresh water wells are within one mile of the proposed injection wells.



XII. Does not Apply

XIII. Proof of Notice:

The surface owner is the Navajo Tribe. There are no other offset operators within one-half mile of the proposed injection wells. The Navajo Tribe has been notified of this Application by certified mail and a legal advertisement was published in the Daily Times. Copies of these notifications are attached as Appendix G.

XIV. Certification:

I hereby certify that the information submitted with this Application is true and correct to the best of my knowledge and belief.

Paul C. Thompson
Paul C. Thompson, P.E.
President
Walsh Engineering and Production Corporation

Date: 3/1/94



21st CENTURY INVESTMENTS
MESA GALLUP WATERFLOOD

APPLICATION FOR AUTHORIZATION TO INJECT

LIST OF APPENDIXES

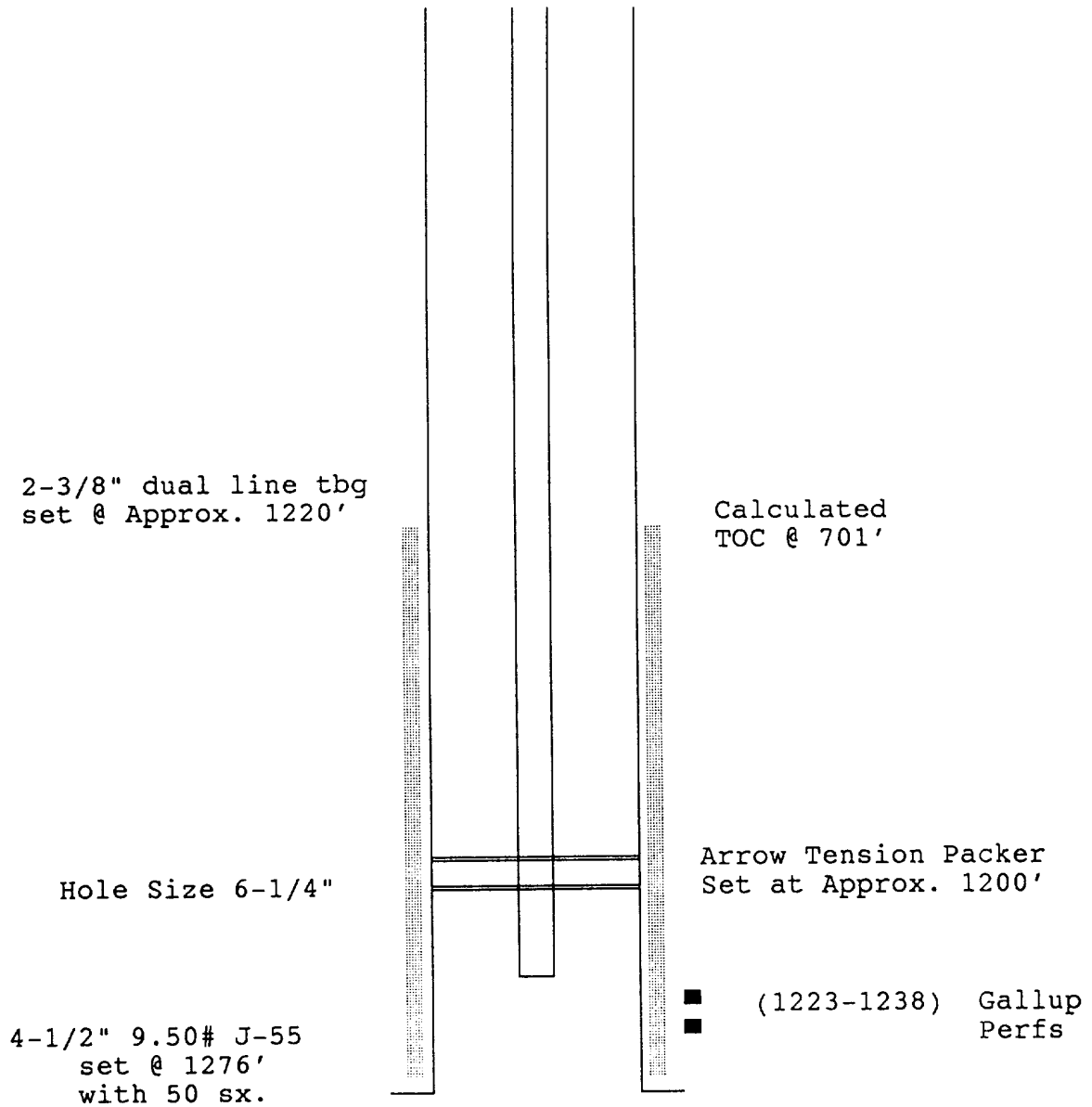
INJECTION WELL DATA	APPENDIX A
MESA GALLUP WATERFLOOD DIVISION ORDER	APPENDIX B
WELL LOCATION MAPS	APPENDIX C
OFFSET WELL DATA AND P&A SCHEMATICS	APPENDIX D
MAKE-UP AND PRODUCED WATER ANALYSIS	APPENDIX E
WELL LOGS	APPENDIX F
PROOF OF NOTIFICATION	APPENDIX G



APPENDIX A

INJECTION WELL DATA

21st Century Investments
Navajo #C1
1700 FNL & 685 FEL
SEC 15 32N 18W
Elev 5311'



21st Century Investments
Navajo #7
2310 FNL & 330 FWL
SEC 24 32N 18W
Elev 5565

Hole Size 8-3/4"
7", 23# J-55
set @ 30'
Cmt w/ 7 sx.
Circ. Cement

2-3/8" dual line tbg
set @ Approx. 1410'

Hole Size 6-1/4"

4-1/2" 9.50# J-55
set @ 1482'
with 40 sx.

Calculated
TOC @ 1022'

Arrow Tension Packer
Set at Approx. 1380'

■ (1427-1429) Gallup
■ (1433-1438) Perfs

21st Century Investments
Navajo "C" #3
330 FSL & 2310 FEL
SEC 14 32N 18W
Elev 5347

Hole Size 8-3/4"
7", 23# J-55
set @ 39'
Cmt w/ 7 sx.
Circ. Cement

2-3/8" dual line tbg
set @ Approx. 1290'

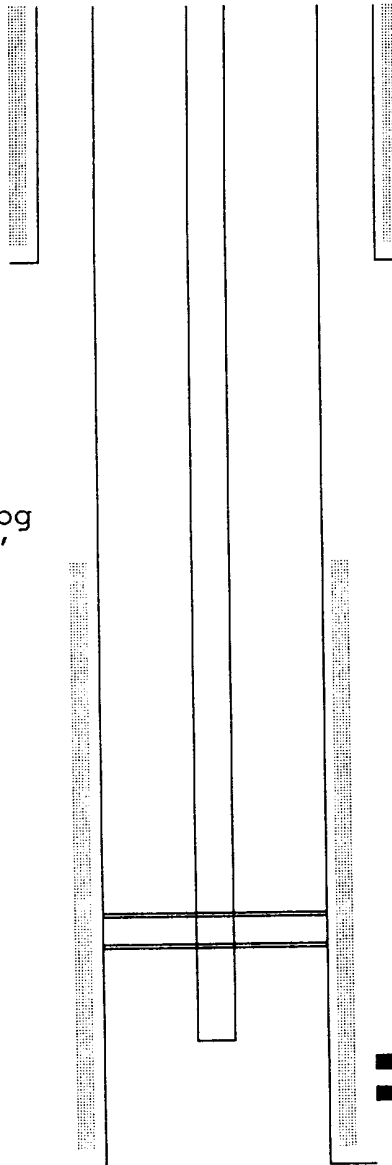
Calculated
TOC @ 453'

Hole Size 6-1/4"

Arrow Tension Packer
Set at Approx. 1260'

4-1/2" 11.6# K-55
set @ 1373'
with 80 sx.

■ (1312-1320) Gallup
■ Perfs





APPENDIX B

MESA GALLUP WATERFLOOD DIVISION ORDER

111.50.
RECEIVED
AUG 11 1989
OIL CON. DIV
DIST. 3

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 9637
Order No. R-8966

APPLICATION OF GRAND RESOURCES
INC. FOR A WATERFLOOD PROJECT,
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 26, 1989, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 9th day of August, 1989, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Grand Resources Inc., seeks authority to institute a waterflood project in its proposed Mesa Gallup Unit (being the subject of Division Case No. 9673) located in all or portions of Sections 10, 11, 14, 15, 23, 24 and 25 of Township 32 North, Range 18 West, NMPM, San Juan County, New Mexico, all as projected into the unsurveyed Navajo Indian Reservation, by the injection of water into the Gallup formation, designated and Undesignated Mesa-Gallup Oil Pool, through the gross perforated interval from approximately 1110 feet to 1392 feet in four existing wells shown on Exhibit "A" attached hereto and made a part hereof.

9111110

CASE NO. 9637
Order No. R-8966
Page -2-

(3) The Mesa-Gallup Oil Pool currently comprises some 1040 acres in Township 32 North, Range 18 West, NMPM, and the Mesa Gallup Unit Area comprises some 2680 acres in said Township 32 North, Range 18 West, NMPM.

(4) The wells currently located in the Mesa-Gallup Oil Pool are in an advanced state of depletion and should properly be classified as "stripper wells".

(5) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) The proposed Mesa Gallup Unit Area contains a substantial amount of acreage that is currently undeveloped in the Mesa-Gallup Oil Pool.

(7) In order to assure the orderly development of the Mesa Gallup Unit Area, the proposed waterflood operations should be initially limited to the area that currently comprises the Mesa-Gallup Oil Pool, described as follows, and hereinafter referred to as the Project Area.

TOWNSHIP 32 NORTH, RANGE 18 WEST, NMPM

Section 10: S/2 SE/4

Section 14: NW/4 SW/4, E/2 SW/4, and W/2 SE/4

Section 15: NW/4 NE/4, E/2 NE/4, and NE/4 SE/4

Section 23: NE/4

Section 24: W/2

Section 25: NE/4 NW/4 and N/2 NE/4

(8) The Division Director should have the authority to administratively authorize expansion of the Project Area by placing additional wells on injection and/or production upon proper application by the operator.

(9) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

CASE NO. 9637
Order No. R-8966
Page -3-

(10) In order to assure that the injected water enters only the injection formation and is not allowed to escape to other formations which may reduce the effectiveness of the proposed waterflood operations, the wells or injection pressurization system should be so equipped as to limit injection pressure at the wellhead to no more than 0.2 psi per foot of depth to the uppermost injection perforation in each injection well, provided however, the Division Director should have the authority to authorize an increase in said injection pressure, should circumstances warrant.

(11) Prior to commencing injection operations into the wells shown on Exhibit "A", the applicant should be required to obtain the appropriate Federal and/or Indian injection permits in accordance with the requirements of 40 CFR Part 147.

(12) The application should be approved and the project should be governed by the provisions of Rules 701 through 708 of the Oil Conservation Division Rules and Regulations.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Grand Resources Inc., is hereby authorized to institute a waterflood project in a portion of its Mesa Gallup Unit Area (described in Exhibit "A" of Division Order No. R-8957), by the injection of water into the Gallup formation, designated and Undesignated Mesa-Gallup Oil Pool, through the gross perforated interval from approximately 1110 feet to 1392 feet in four existing wells shown on Exhibit "A" attached hereto and made a part hereof, all located in Township 32 North, Range 18 West, NMPM, San Juan County, New Mexico.

(2) The proposed waterflood operations shall be initially limited to the area that currently comprises the Mesa-Gallup Oil Pool, described as follows, and hereinafter referred to as the Project Area.

TOWNSHIP 32 NORTH, RANGE 18 WEST, NMPM

Section 10: S/2 SE/4
Section 14: NW/4 SW/4, E/2 SW/4, and W/2 SE/4
Section 15: NW/4 NE/4, E/2 NE/4, and NE/4 SE/4
Section 23: NE/4
Section 24: W/2
Section 25: NE/4 NW/4 and N/2 NE/4

CASE NO. 9637
Order No. R-8966
Page -4-

(3) The Division Director shall have the authority to administratively authorize expansion of the Project Area by placing additional wells on injection and/or production upon proper application by the operator.

(4) Injection into each of the wells shown on said Exhibit "A" shall be through internally coated tubing, set in a packer which shall be located as near as practicable to the uppermost injection perforation; the casing-tubing annulus in each well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention attracting leak detection device.

(5) The operator shall immediately notify the supervisor of the Division's Aztec district office of the failure of the tubing, casing, or packer in any of said injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from or around any plugged and abandoned well within the project area and shall take such steps as may be timely and necessary to correct such failure or leakage.

(6) The injection wells herein authorized and/or the injection pressurization system shall be so equipped as to limit the injection pressure at the wellhead to no more than 0.2 psi per foot of depth to the uppermost perforations therein (as more fully described in Exhibit "A"), provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.

→ (7) Prior to commencing injection operations, the casing in each of the wells shown on Exhibit "A" shall be pressure-tested from the surface to the proposed packer setting depth to assure the integrity of such casing.

→ (8) The operator shall notify the supervisor of the Aztec district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure test in order that the same may be witnessed.

CASE NO. 9637
Order No. R-8966
Page -5-

(9) Prior to commencing injection operations into the wells shown on Exhibit "A", the applicant shall be required to obtain the appropriate Federal and/or Indian injection permits in accordance with the requirements of 40 CFR Part 147.

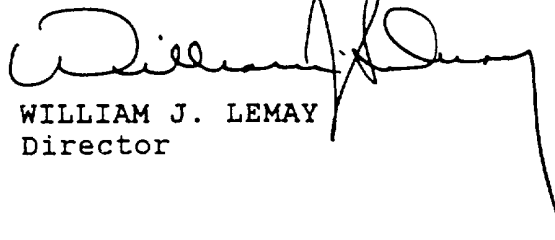
(10) The subject waterflood project is hereby designated the Mesa Gallup Unit Waterflood Project and shall be governed by the provisions of Rules 701 through 708 of the Division Rules and Regulations.

(11) Monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rules 704 and 1120 of the Division Rules and Regulations.

(12) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

S E A L

EXHIBIT "A"
CASE NO. 9637
ORDER NO. R-8966

MESA GALLUP UNIT WATERFLOOD PROJECT INJECTION WELLS

<u>WELL & LOCATION</u>	<u>MAXIMUM SURFACE INJECTION PRESSURE</u>
<u>TOWNSHIP 32 NORTH, RANGE 18 WEST, NMPM</u>	
Navajo "C" Well No. 1 1700' FNL & 685' FEL, Unit (H) ✓ Section 15	245 PSIG ✓
Navajo Well No. 3 660' FSL & 1980' FWL, Unit (N) Section 24	222 PSIG ✓
Navajo Well No. 11 330' FNL & 1650' FEL, Unit (B) ✓ Section 23	276 PSIG ✓
Navajo Well No. 4 1650' FSL & 1710' FEL, Unit (J) ✓ Section 14	263 PSIG



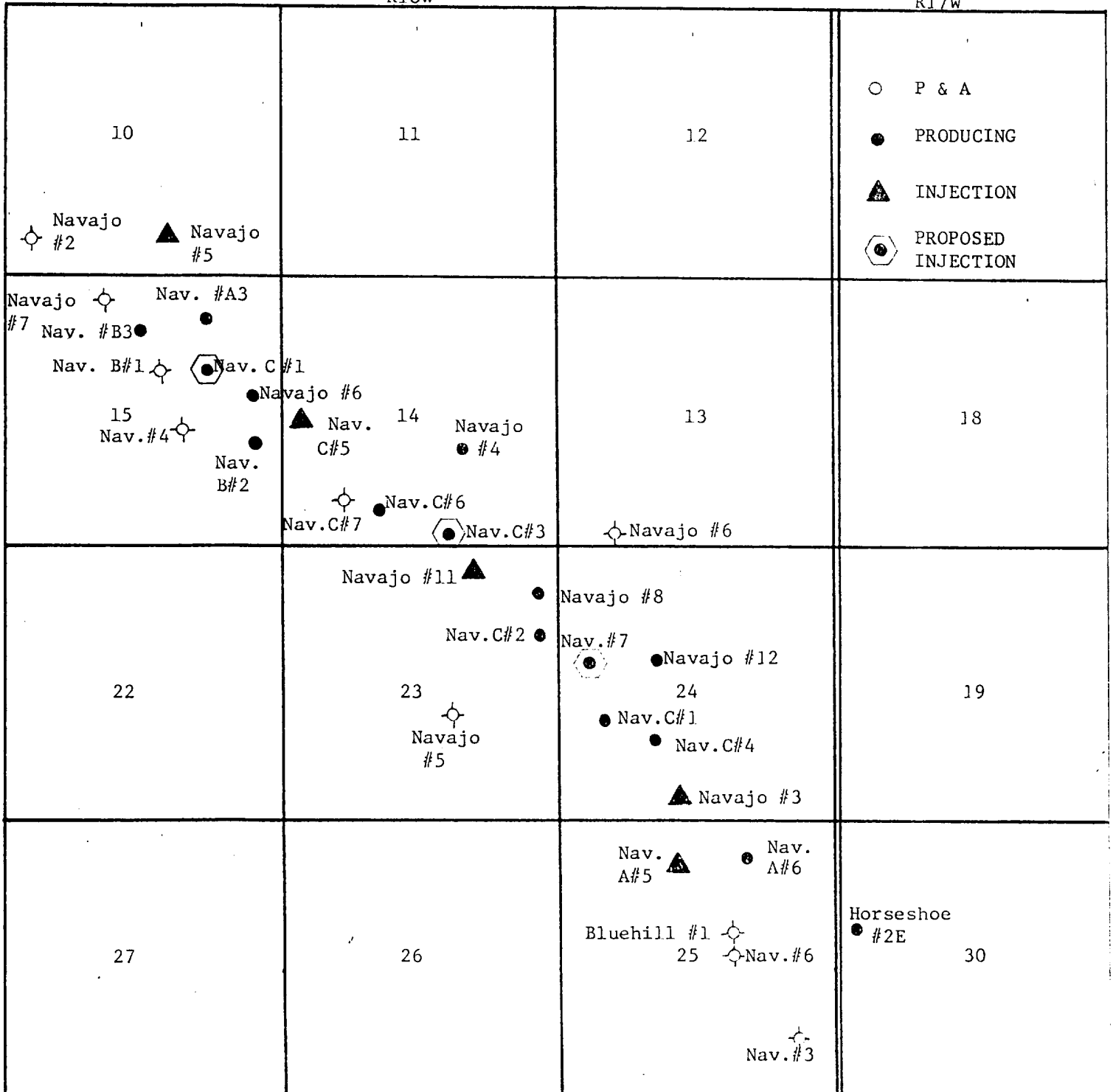
APPENDIX C

WELL LOCATION MAPS

MESA GALLUP

R18W

R17W



T32N

GEOLOGICAL SURVEY

108°45' R 18 W
37°00' R 17 W
01 sec E

702

703

42.30'

705

706

4258 II SW
(TANNER MESA)

SAN JUAN CO.

U.S. GEOLOGICAL SURVEY

NEW MEXICO





APPENDIX D

OFFSET WELL DATA
P&A WELL SCHEMATICS

WELL IN AREA OF REVIEW

OPERATOR	WELL NAME	SPUD DATE	LOCATION	SECTION	TOTAL DEPTH	COMPLETION INTERVAL	I. P. (BOPD)	FORMA- TION	CASING SIZE & DEPTH	CEMENT SXS	STATUS
ZOLLER &											
DANNENBERG	BLUEHILL #1	7/26/65	2319FNL-1980FEL	25,32N-18W	1573	-	-	"	7"ø30	CIRC.	P&A ✓
GRAND NAV "A"	#4	11/8/61	B600FNL-1980FEL	25,32N-18W	1120	1051-66	8	GALLUP	4-1/2"ø1045	100	P
GRAND NAV "A"	#5	12/4/61	C610FNL-1980FWL	25,32N-18W	1062	1037-45	5	"	3-1/2"ø1057	100	I
RL BAYLESS NAV	#6	7/2/64	3300FSL-3300FWL	25,32N-18W	1093	-	-	"	5-1/2"ø52	CIRC.	P&A ✓
NAVAJO											
GRAND	#3	8/10/61	N660FSL-1980FWL	24,32N-18W	1163	1110-26	49	"	4-1/2"ø1158	45	I
GRAND	#4	10/3/61	J1650FSL-1710FEL	14,32N-18W	1365	1315-23	6	"	4-1/2"ø1357	35	P
EXPL/DRILL/CO	#5	11/29/61	J2135FSL-1935FEL	23,32N-18W	1254	-	-	"	7"ø30	CIRC.	P&A ✓
EXPL/DRILL/CO	#6	12/30/61	365FSL-760FWL	13,32N-18W	1472	-	-	"	7"ø66	CIRC.	P&A ✓
GRAND	#7	1/13/62	E2310FNL-330FWL	24,32N-18W	1482	1423-38	88	"	4-1/2"ø1481	40	P
GRAND	#8	2/10/62	A950FNL-330FEL	23,32N-18W	1445	1383-94	88	"	4-1/2"ø1437	40	P
GRAND	#11	1/24/62	B330FNL-1650FEL	23,32N-18W	1438	1381-92	87	"	4-1/2"ø1438	40	I
GRAND	#12	2/18/62	F2290FNL-1780FWL	24,32N-18W	1573	1521-28	8	"	4-1/2"ø1572	40	P
NAVAJO TRIBAL C											
GRAND	#1	2/26/62	L660FNL-2310FSL	24,32N-18W	1295	1225-36	92	"	4-1/2"ø1288	80	P
GRAND	#2	3/10/62	H1650FNL-330FEL	23,32N-18W	1478	1407-17	89	"	4-1/2"ø1476	80	P
GRAND	#3	3/17/62	O330FSL-2310FEL	14,32N-18W	1380	1312-20	36	"	4-1/2"ø1373	80	P
GRAND	#4	10/3/61	J1650FSL-1710FEL	14,32N-18W	1365	1315-23	6	"	4-1/2"ø1357	35	P
GRAND	#5	3/23/68	L2310FSL-330FWL	14,32N-18W	1762	1642-65	84	"	4-1/2"ø1749	35	I
GRAND	#6	3/12/69	N1720FWL-650FSL	14,32N-18W	1310	1252-69	77	"	4-1/2"ø1310	35	P
EXPL/DRILL/CO	#7	4/7/69	H990FSL-990FWL	14,32N-18W	1327	-	-	"	7"ø30	CIRC.	P&A ✓
AZTEC											
OIL & GAS	NAV #3	11/14/59	4745FWL-790FSL	25,32N-18W	1660			GALLUP	8-5/8"ø60	35	P&A ✓
DUGAN											
	HORSESHOE #2E	6/17/64	330FWL-3210FSL	30,32N-17W	1175	1101-10	10	GALLUP	4-1/2"ø1172	35	P
ARI-MEX	NAV B #2	10/15/70	4950FWL-2310FSL	15,32N-18W	1718	1612-14	10	"	4-1/2"ø1717	125	P
ARI-MEX	NAV #6	5/16/68	4950FWL-3030FSL	15,32N-18W	1360	1282-1304		"	4-1/2"ø1345	35	P
ARI-MEX	NAV C #1	5/2/64	4595FWL-3580FSL	15,32N-18W	1276	1223-38	32	"	4-1/2"ø1276	50	P
ARI-MEX	NAV #3A	5/30/64	4530FWL-4335FSL	15,32N-18W	1312	1250-60	19	"	4-1/2"ø1312	35	P
AAA FSHING TL	NAV #4	1/24/68	3850FWL-2510FSL	15,32N-18W	1414	-		"	7"ø50	CIRC.	P&A ✓
AAA FSHING TL	NAV B #1	12/18/70	1650FNL-1650FEL	15,32N-18W	1285	-		"	7"ø60	25	P&A ✓
ARI-MEX	NAV B #3	3/19/70	1115FWL-1480FEL	15,32N-18W	1275	1197-1205	6	"	4-1/2"ø1272	125	P
AAA FSHING TL	NAV #7	2/24/69	2310FWL-4950FSL	15,32N-18W	1295	-	-	"	7"ø30	CIRC.	P&A ✓
AIR-MEX	NAV #5	10/4/67	3300FWL-440FSL	10-32N-18W	1873	1664-78	6	"	4-1/2"ø1764	135	I
HARLAN DRLG	NAV #2	5/4/64	350FWL-540FSL	10,32N-18W	1183	-	-	"	7"ø30	CIRC.	P&A ✓

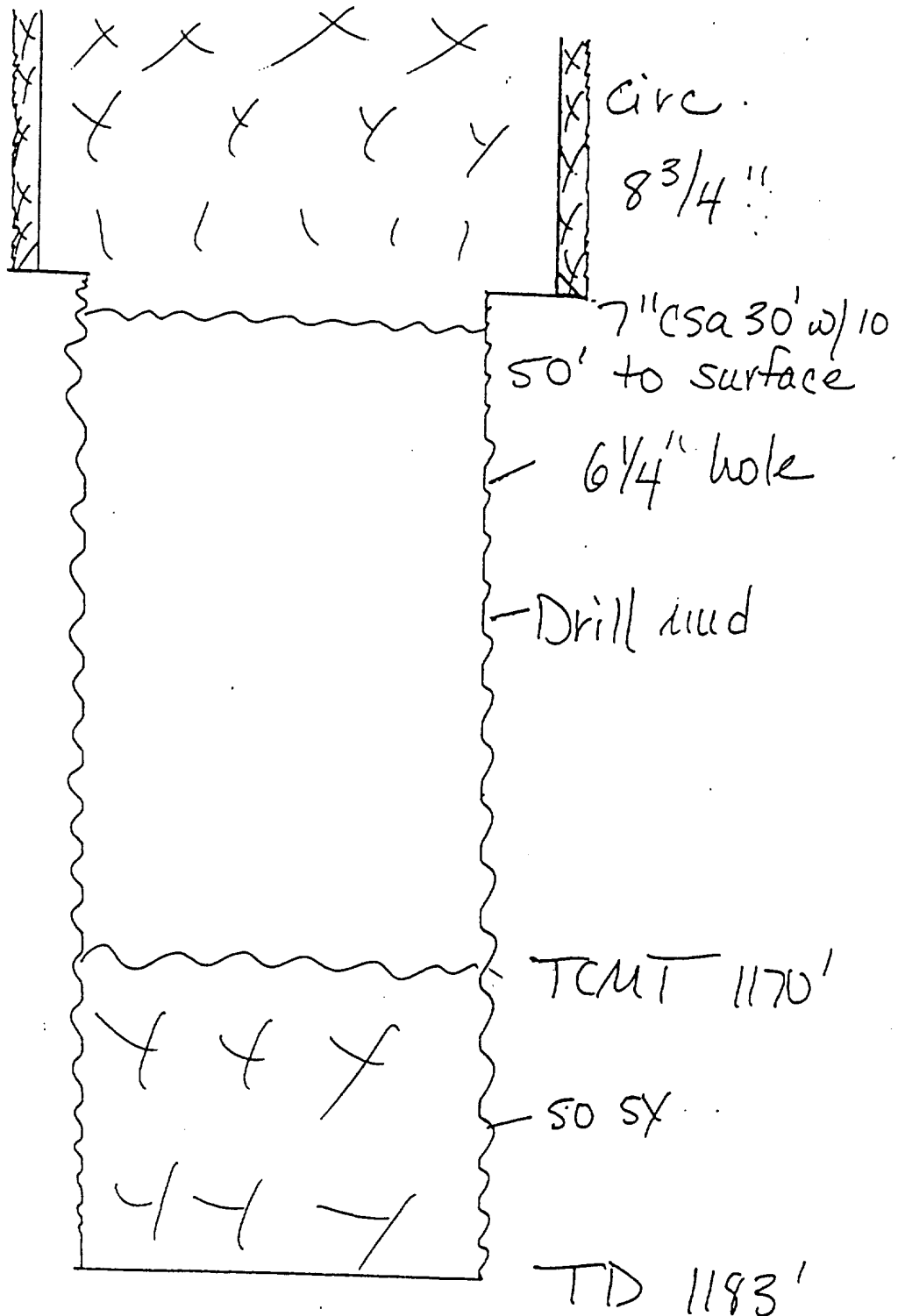
* ALL WELLS ARE 6-1/4" HOLE SIZE EXCEPT:

RL BAYLESS NAVAJO #6, 3300 FSL - 3300 FWL, SECTION 25-32N-18W and
AZTEC OIL & GAS NAVAJO #3, 4745 FWL - 790 FSL, SECTION 25-32N-18W and
these two wells have 7-7/8" hole size

* THE TOP OF THE CEMENT IS NOT INDICATED BY EITHER TEMPERATURE SURVEY OR
BOND LOG ON THE PRODUCING WELLS. ALL CEMENT TOPS MUST BE CALCULATED.

WELL DATA SHEET

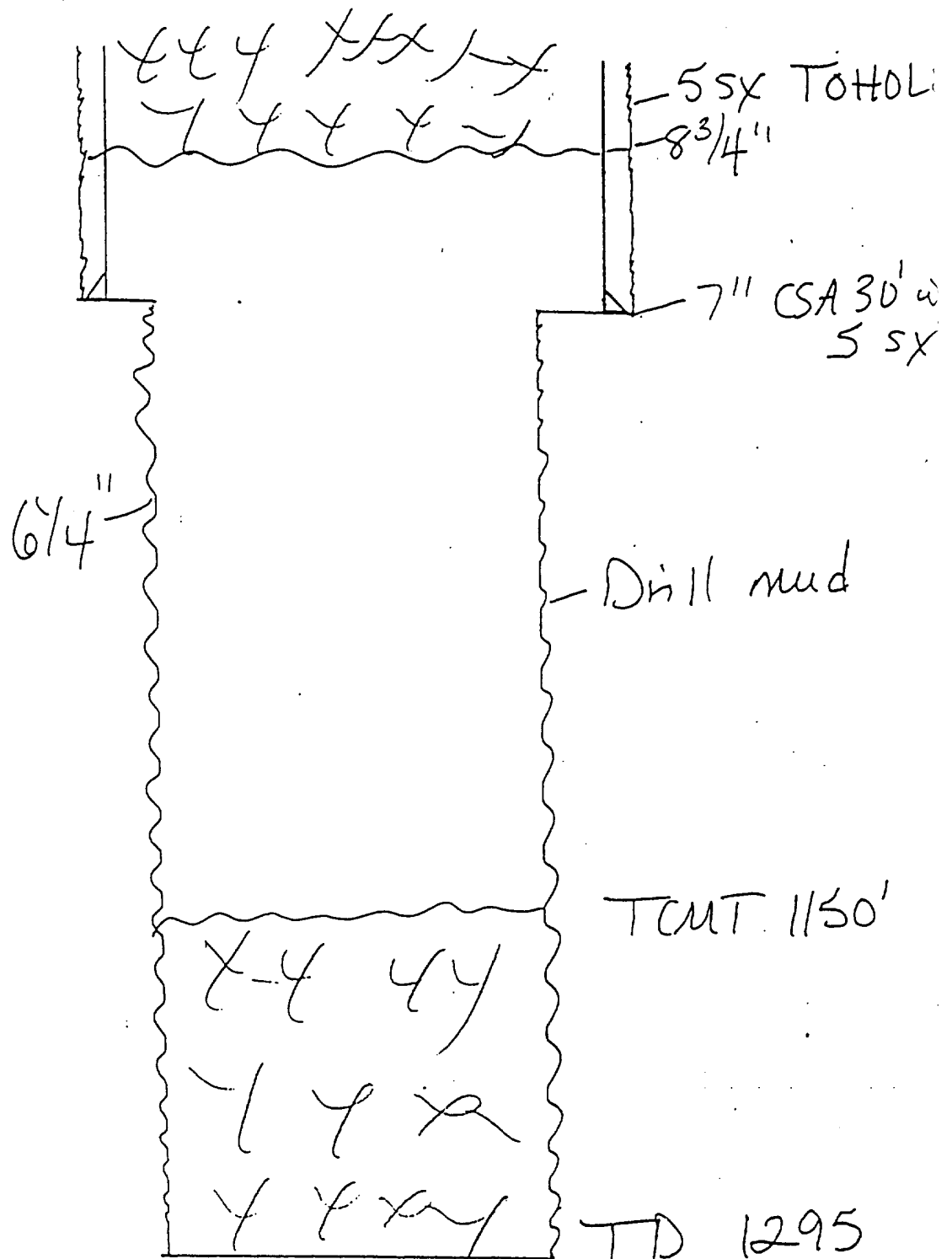
HARLAN DRILLING CO.		NAVAJO	5-4-64	
OPERATOR		LEASE	SPUD DATE	
#2	350FW-540FS	10	32N	18W 17W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE



RECEIVED
MAR 02 1994
OIL CON. DIV.
DIST. 3

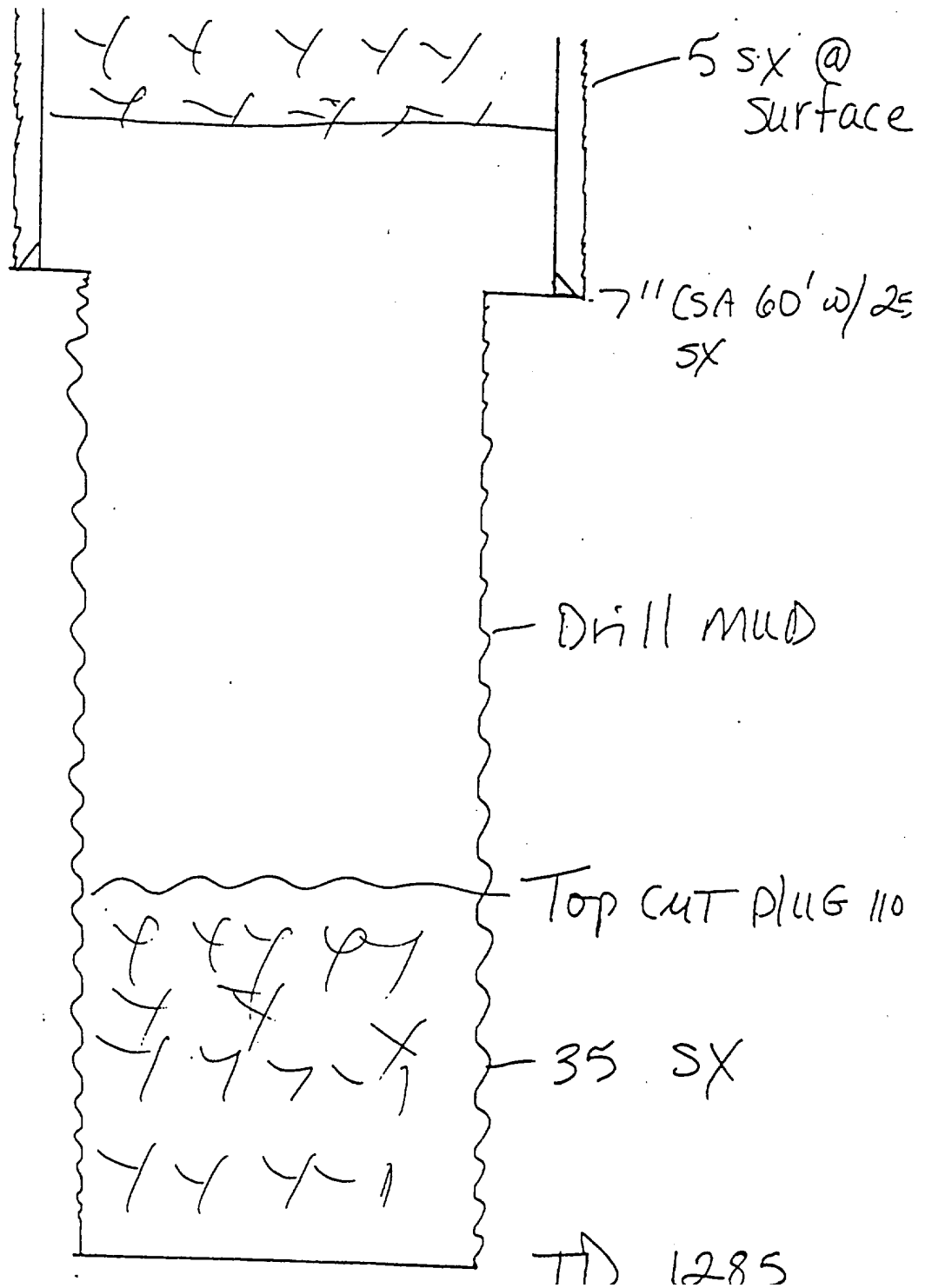
WELL DATA SHEET

AAA FISHING TOOL		NAVAJO	2-24-69	
OPERATOR		LEASE	SPUD DATE	
#7	2310FW-4950FS	15	-32N	18W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE



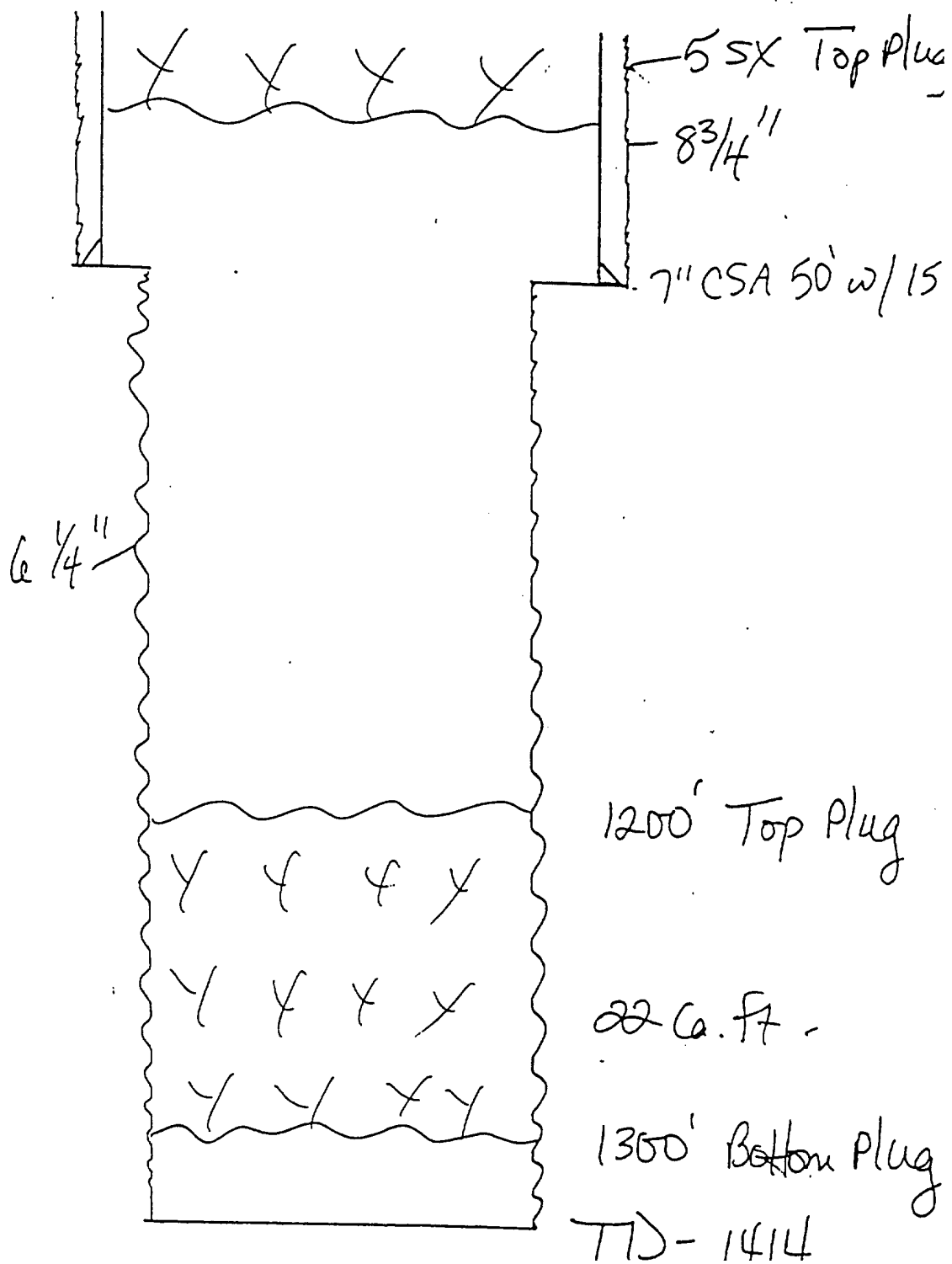
WELL DATA SHEET

AAA	FISHING TOOL	NAVAJO	12-3-70
OPERATOR		LEASE	SPUD DATE
B-1	1650FN-1650FE	15	32N 18W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP RANGE



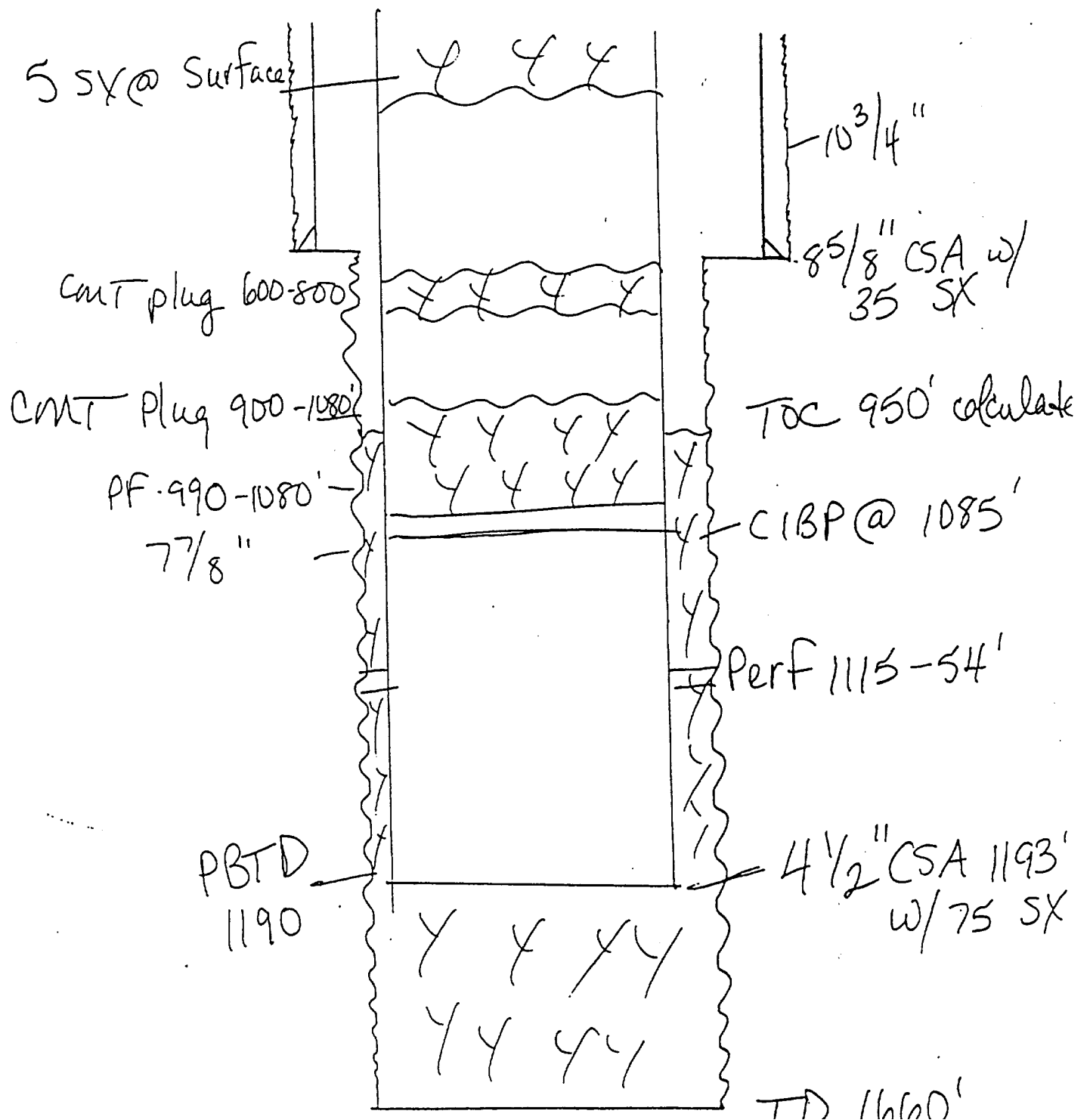
WELL DATA SHEET

AAA FISHING TOOL	NAVAJO	1-24-68	
OPERATOR	LEASE	SPUD DATE	
#4	3850FW-2510FS	15	32N 18W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP RANGE



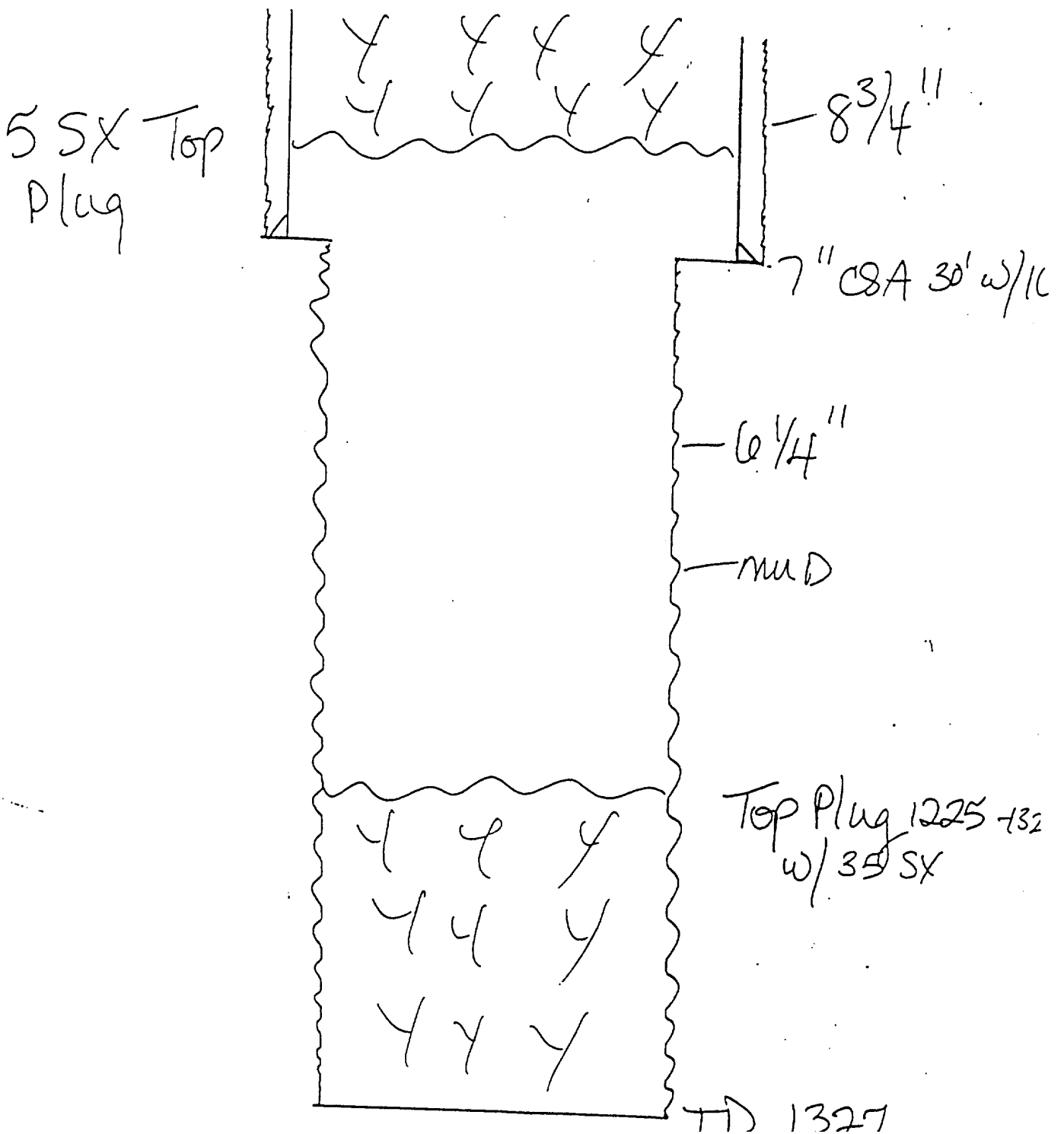
WELL DATA SHEET

AZTEC OIL & GAS CO.		NAVAJO		11-14-59	
OPERATOR		LEASE		SPUD DATE	
#3		790FS-535FE		25	
				32N 18W	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE	



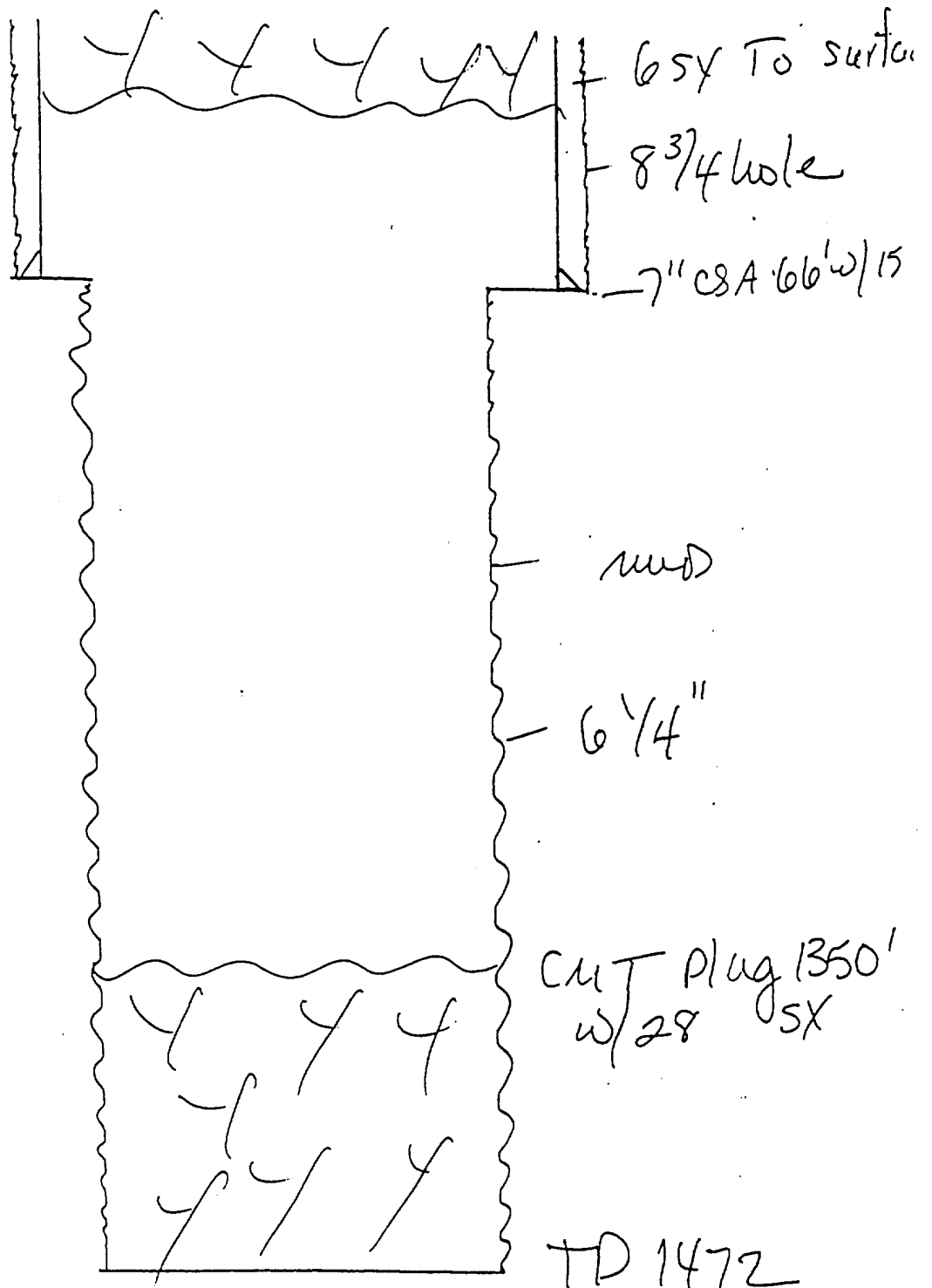
WELL DATA SHEET

EXPLORATION DRILLING CO.	NAVAJO	4-7-69
OPERATOR	LEASE	SPUD DATE
#7	990FS-990FW	14
		32N
		18W
WELL NO.	FOOTAGE LOCATION	SECTION
		TOWNSHIP
		RANGE



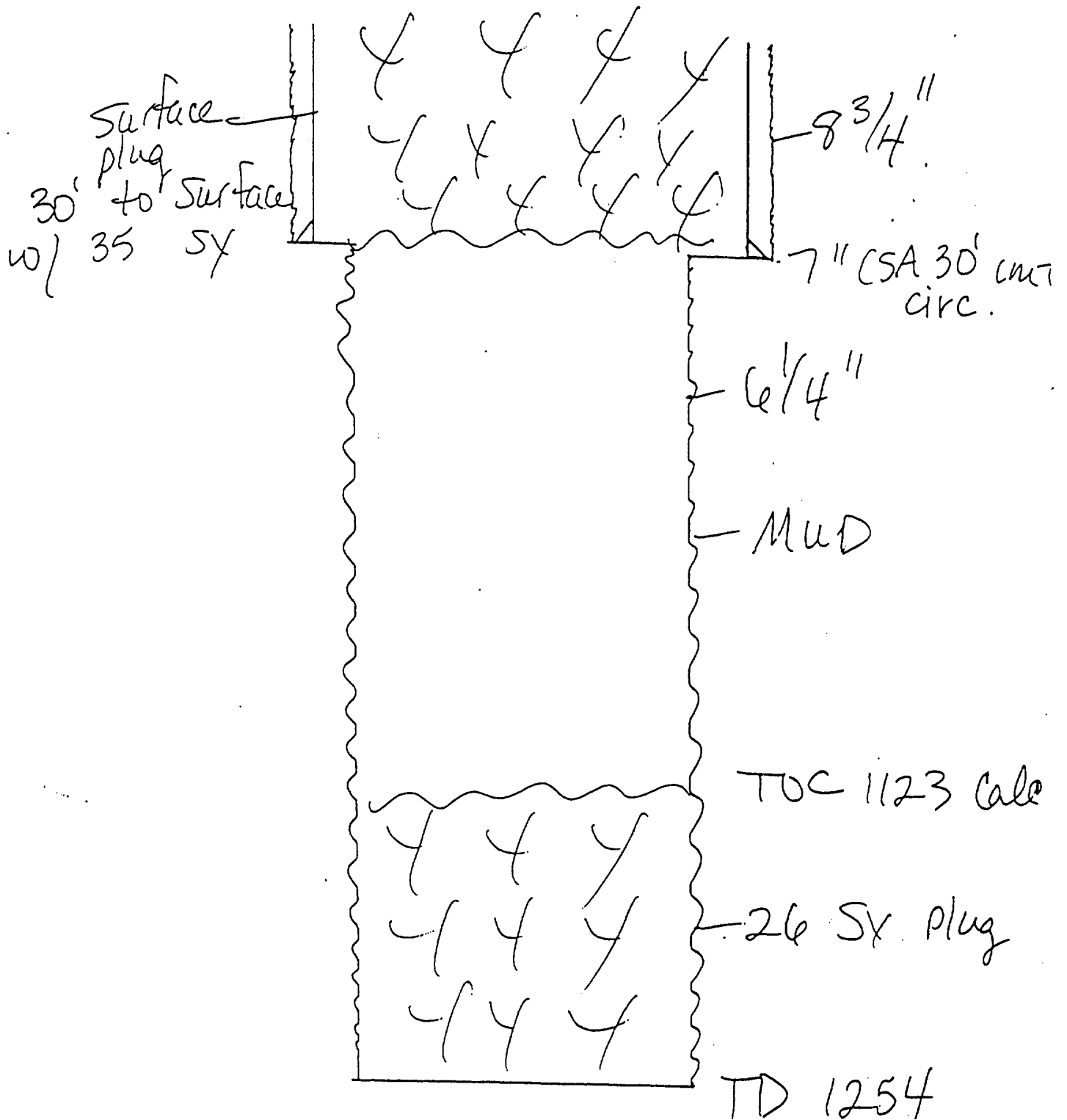
WELL DATA SHEET

EXPLORATION DRILLING CO.	NAVAJO		12-30-61	
OPERATOR	LEASE		SPUD DATE	
#6	365FS-760FW	13	32N	18W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE



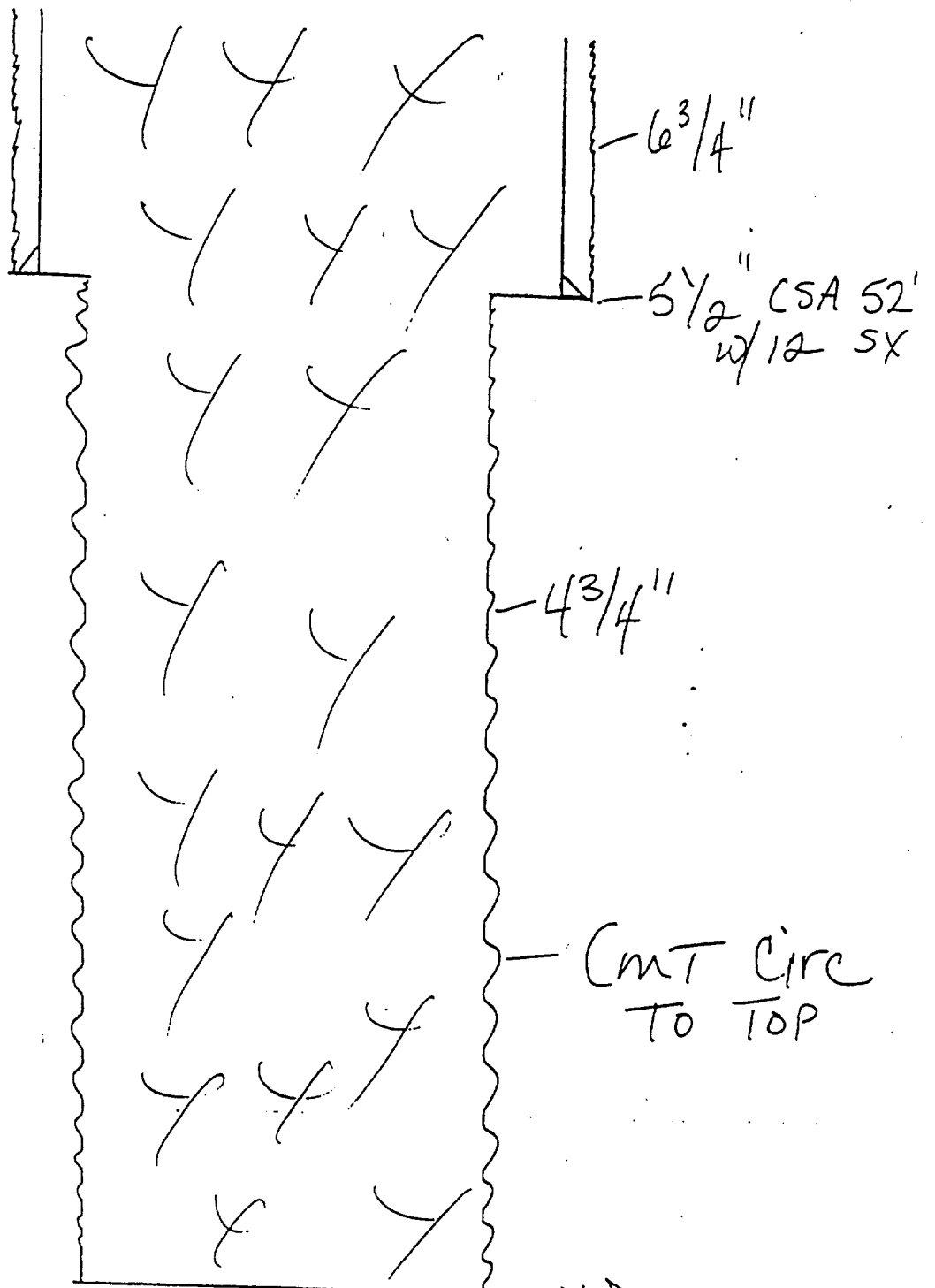
WELL DATA SHEET

EXPLORATION DRILLING CO.	NAVAJO	11-29-61
OPERATOR	LEASE	SPUD DATE
#5	2135FS-1935FE	23
		32N 18W
WELL NO.	FOOTAGE LOCATION	SECTION
		TOWNSHIP
		RANGE



WELL DATA SHEET

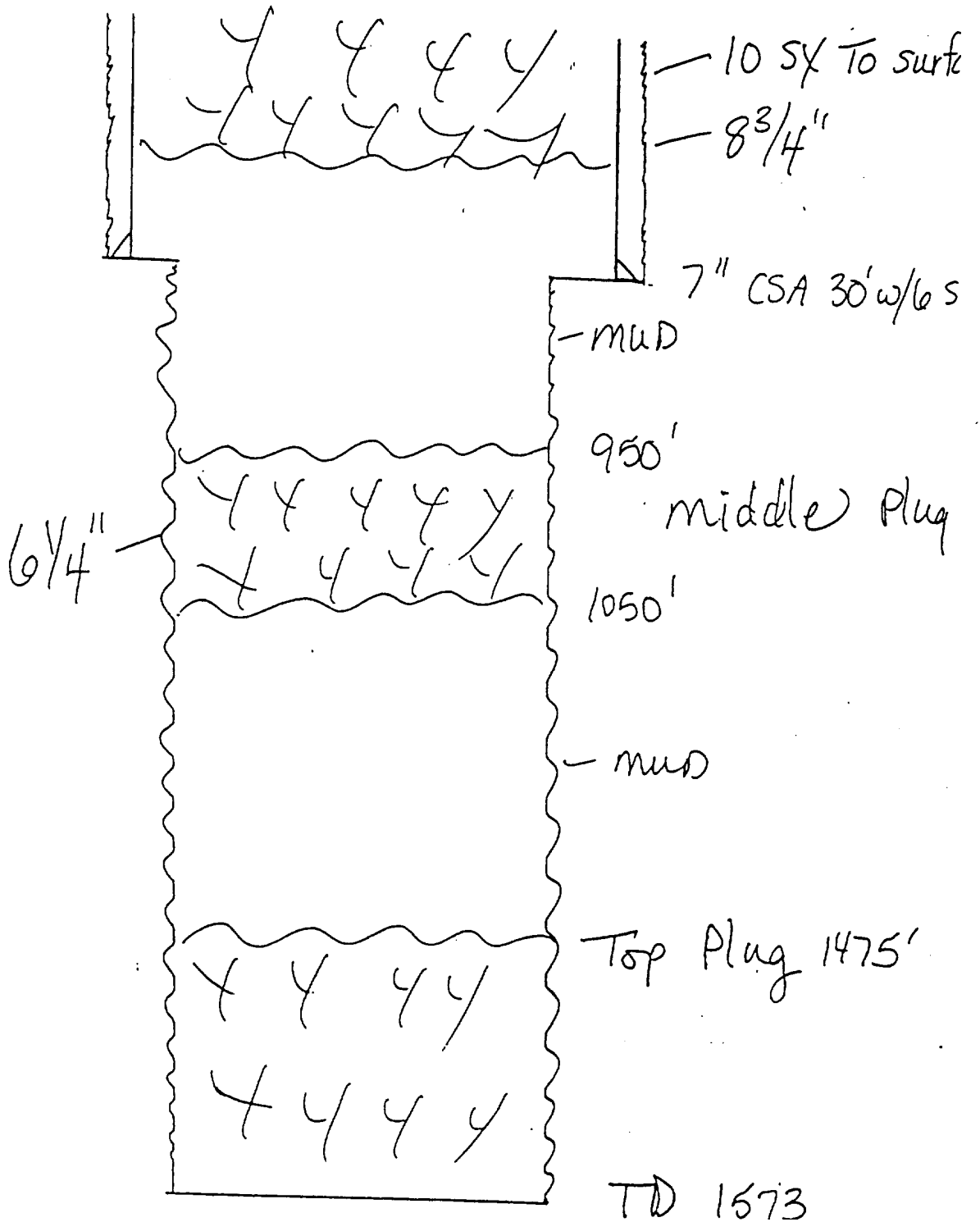
R. L. BAYLESS	NAVAJO	7-1-64
OPERATOR	LEASE	SPUD DATE
#6	1980FN-1980FE	25
		32N 18W
WELL NO.	FOOTAGE LOCATION	SECTION
		TOWNSHIP
		RANGE



TD 1093

WELL DATA SHEET

ZOLLER & DANNEBERG	BLUEHILL	7-26-65
OPERATOR	LEASE	SPUD DATE
#1	2319FN-1980FE	25
		32N
		18W
WELL NO.	FOOTAGE LOCATION	SECTION
		TOWNSHIP
		RANGE





APPENDIX E

WATER ANALYSIS

- MAKE-UP WATER FROM WELL #18 ENTRADA
- PRODUCED WATER

ENTRADA WATER

WATER ANALYSIS REPORT

Company : GRAND RESOURCES
Address :
Lease : NAVEJO
Well : #18
Sample Pt. :

Date : 03/10/92
Date Sampled : 02/06/92
Analysis No. : 1

ANALYSIS	mg/L	* meq/L
1. pH	7.0	
2. H2S	0	
3. Specific Gravity	1.02	
4. Total Dissolved Solids	30976.3	
5. Suspended Solids		
6. Dissolved Oxygen		
7. Dissolved CO2	22	
8. Oil In Water		
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)		
11. Bicarbonate	HCO3 244.0	HCO3 4.0
12. Chloride	Cl 16000.0	Cl 451.3
13. Sulfate	SO4 3000.0	SO4 62.5
14. Calcium	Ca 400.0	Ca 20.0
15. Magnesium	Mg 133.9	Mg 11.0
16. Sodium (calculated)	Na 11192.5	Na 486.8
17. Iron	Fe 6.0	
18. Barium	Ba 0.0	
19. Strontium	Sr 0.0	
20. Total Hardness (CaCO3)	1550.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/l
20 *Ca <----- *HCO3	Ca(HCO3)2	81.0	4.0 324
/----->	CaSO4	68.1	16.0 1086
11 *Mg -----> *SO4	CaCl2	55.5	
<-----/	Mg(HCO3)2	73.2	
487 *Na -----> *Cl	MgSO4	60.2	11.0 663
	MgCl2	47.6	
	NaHCO3	84.0	
Saturation Values Dist. Water 20 C	Na2SO4	71.0	35.5 2521
CaCO3 13 mg/L	NaCl	58.4	451.3 26376
CaSO4 * 2H2O 2090 mg/L			
BaSO4 2.4 mg/L			

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
MARC ROSE

GALLUP PRODUCED WATER
WATER ANALYSIS REPORT

Company : GRAND RESOURCES
Address :
Lease : NAVEJO
Well :
Sample Pt. : TREATER

Date : 03/10/92
Date Sampled : 02/06/92
Analysis No. : 2

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.0			
2. H2S	0			
3. Specific Gravity	1.024			
4. Total Dissolved Solids		42737.6		
5. Suspended Solids				
6. Dissolved Oxygen				
7. Dissolved CO2		44		
8. Oil In Water				
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	305.0	HCO3	5.0
12. Chloride	Cl	24800.0	Cl	699.6
13. Sulfate	SO4	1175.0	SO4	24.5
14. Calcium	Ca	620.0	Ca	30.9
15. Magnesium	Mg	243.3	Mg	20.0
16. Sodium (calculated)	Na	15589.3	Na	678.1
17. Iron	Fe	5.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		2550.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
+-----+					-----
31 *Ca <-----	*HCO3	5	Ca(HCO3)2	81.0	5.0 405
-----	/----->	-----	CaSO4	68.1	24.5 1665
20 *Mg ----->	*SO4	24	CaCl2	55.5	1.5 82
-----	<-----/	-----	Mg(HCO3)2	73.2	
678 *Na ----->	*Cl	700	MgSO4	60.2	
+-----+			MgCl2	47.6	20.0 953
Saturation Values Dist. Water 20 C			NaHCO3	84.0	
CaCO3	13 mg/L		Na2SO4	71.0	
CaSO4 * 2H2O	2090 mg/L		NaCl	58.4	678.1 39628
BaSO4	2.4 mg/L				

REMARKS: TREATER

Petrolite Oilfield Chemicals Group

Respectfully submitted,
MARC ROSE



APPENDIX F

WELL LOGS

- NAVAJO #C1
- NAVAJO #7
- NAVAJO C #3

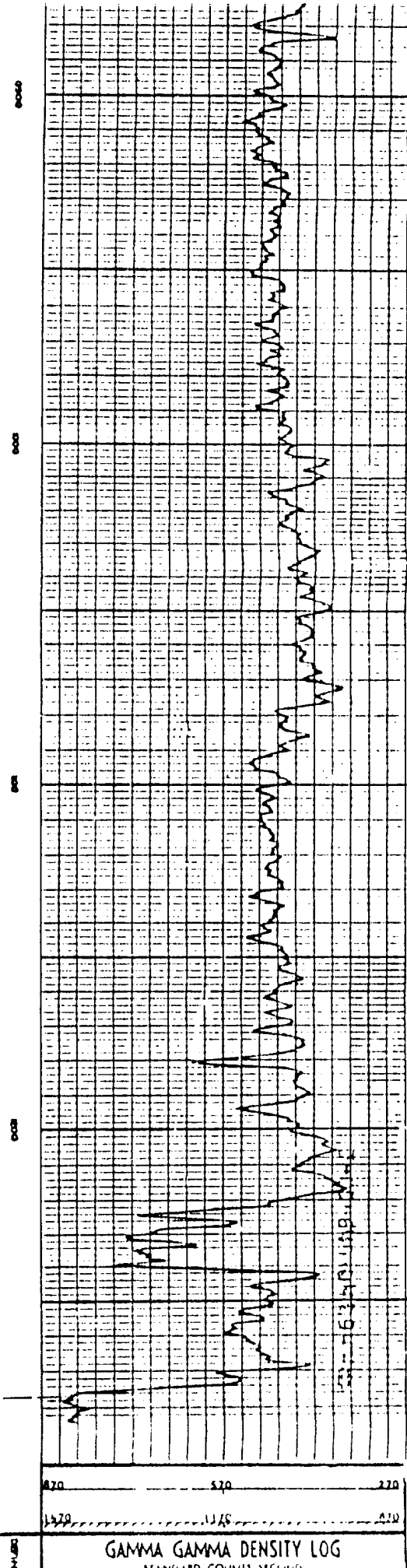
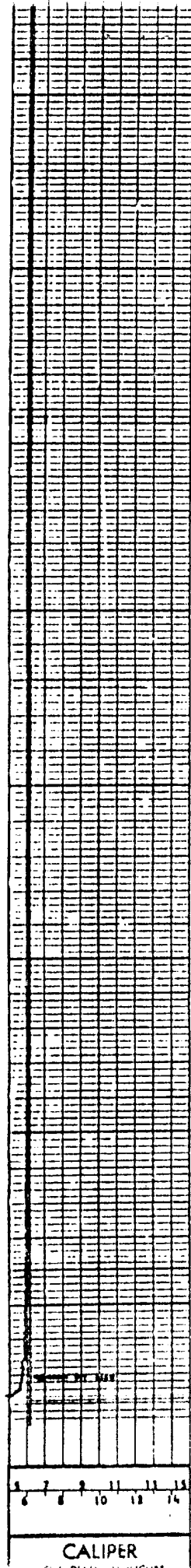
COUNTY SAM JUAN, N.M. FIELD LOCATION WILDCAT WELL NAME WILDCAT COMPANY HARLAN DRILLING COMPANY		COMPANY HARLAN DRILLING COMPANY WELL NAME WILDCAT FIELD WILDCAT COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W	
COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W		COUNTY SAM JUAN STATE N.M. OFFICE Location 1700' F.W. AND 835' F.W. Other Sections 104 Sec. 15 Twp. 32N Rge. 19W	

RECEIVED
 APR 1 1964
 OIL CORP. CO.
 DIST. 1

EQUIPMENT DATA									
Gamma-Gamma					General				
Run No.	QNT	APL	APL	APL	Run No.	QNT	APL	APL	APL
Test Model No.	PG-1	PG-1	PG-1	PG-1	Test Model No.	PG-1	PG-1	PG-1	PG-1
Test Model No.	PG-1	PG-1	PG-1	PG-1	Test Model No.	PG-1	PG-1	PG-1	PG-1
Type	SCHE	SCHE	SCHE	SCHE	Type	SCHE	SCHE	SCHE	SCHE

LOGGING DATA									
Gamma Ray					Gamma Gamma				
Run No.	APL	APL	APL	APL	Run No.	APL	APL	APL	APL
Test Model No.	PG-1	PG-1	PG-1	PG-1	Test Model No.	PG-1	PG-1	PG-1	PG-1
Test Model No.	PG-1	PG-1	PG-1	PG-1	Test Model No.	PG-1	PG-1	PG-1	PG-1
Type	SCHE	SCHE	SCHE	SCHE	Type	SCHE	SCHE	SCHE	SCHE

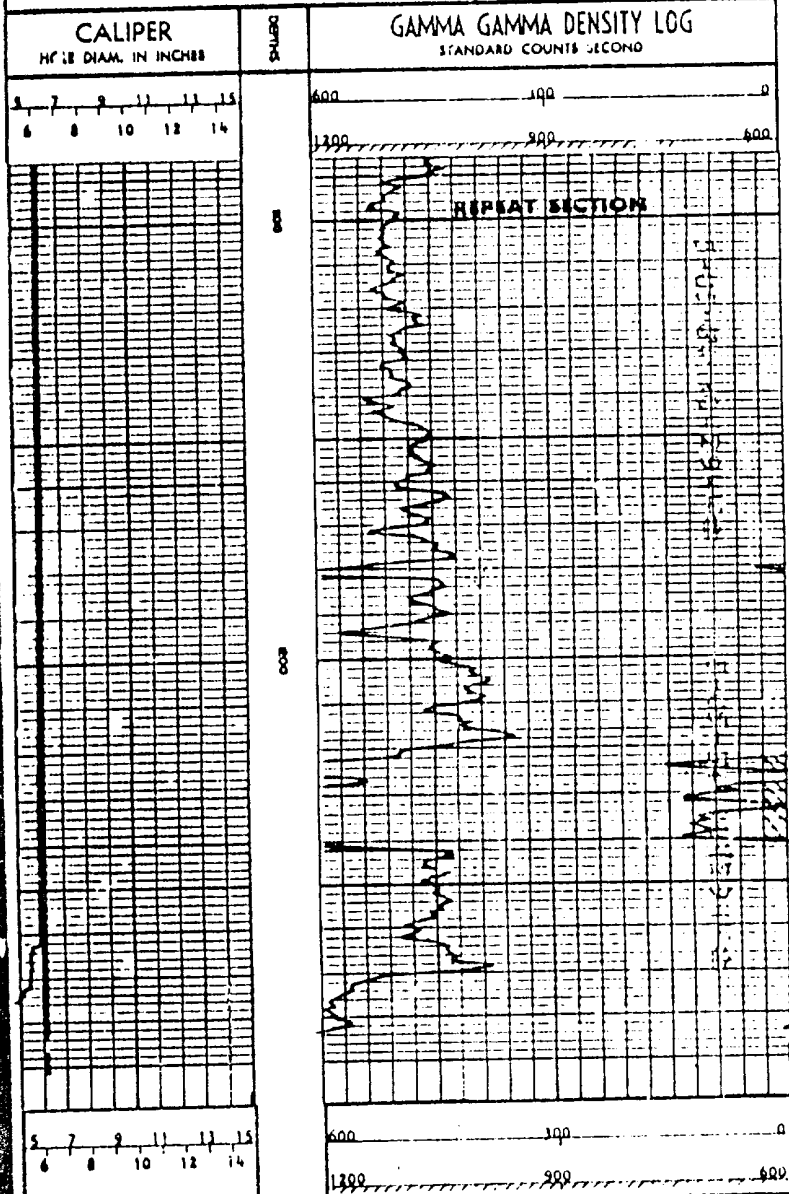
REMARKS									
1. 66A 2. 66B 3. 66C 4. 66D 5. 66E 6. 66F 7. 66G 8. 66H 9. 66I 10. 66J									



COMPANY HARLAN DRILLING COMPANY
WELL NAYAJQ #1
FIELD WILDCAT
COUNTY SAN JUAN STATE NEW MEXICO

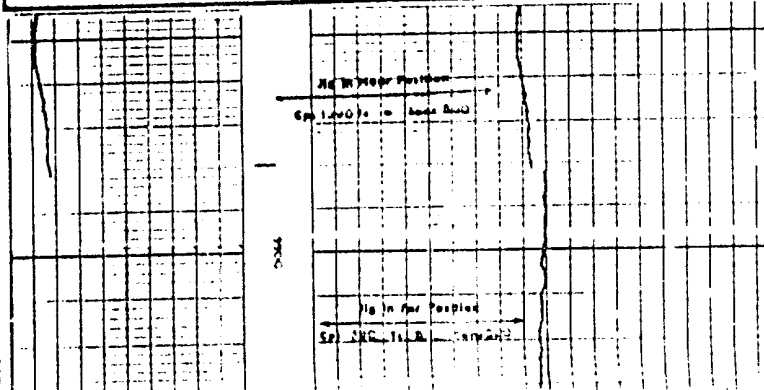
BHT TSM F SWSC ID 1278'
DATE ID 1282'
Elev. KB NA
DP NA
GL 5311'

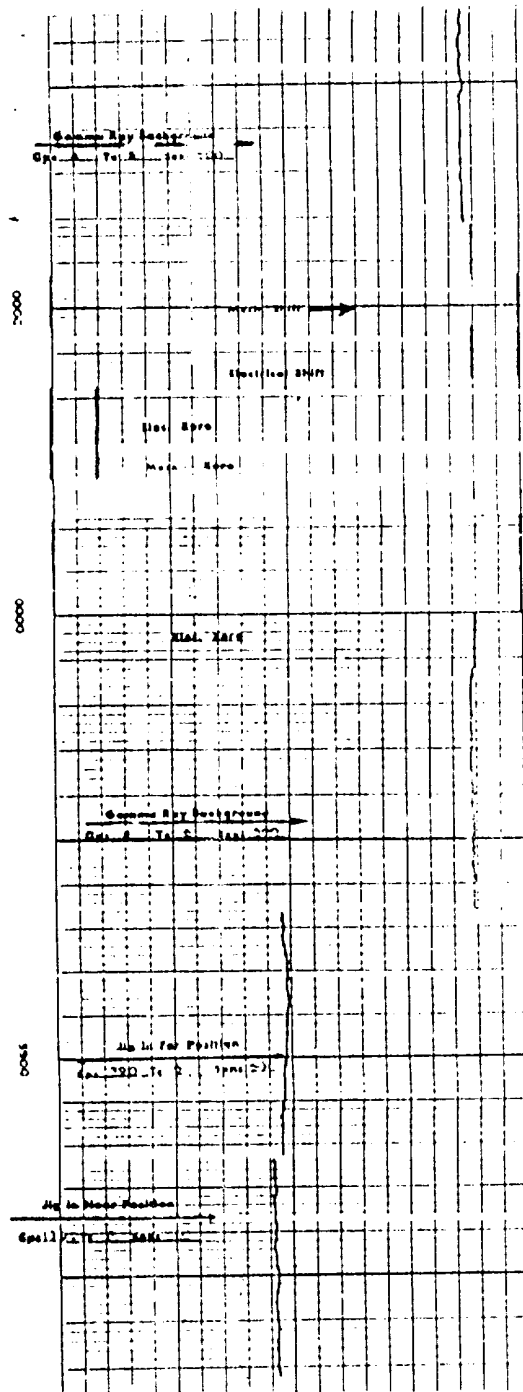
REPEAT SECTION



CALIPER HOLE DIAM. IN INCHES	DEPTH FEET	GAMMA GAMMA DENSITY LOG STANDARD COUNTS SECOND
COMPANY HARLAN DRILLING COMPANY	BHT TSM F	SWSC ID 1278'
WELL NAYAJQ #1		DATE ID 1282'
FIELD WILDCAT		Elev. KB NA
COUNTY SAN JUAN STATE NEW MEXICO		DP NA
		GL 5311'

CALIBRATION DATA

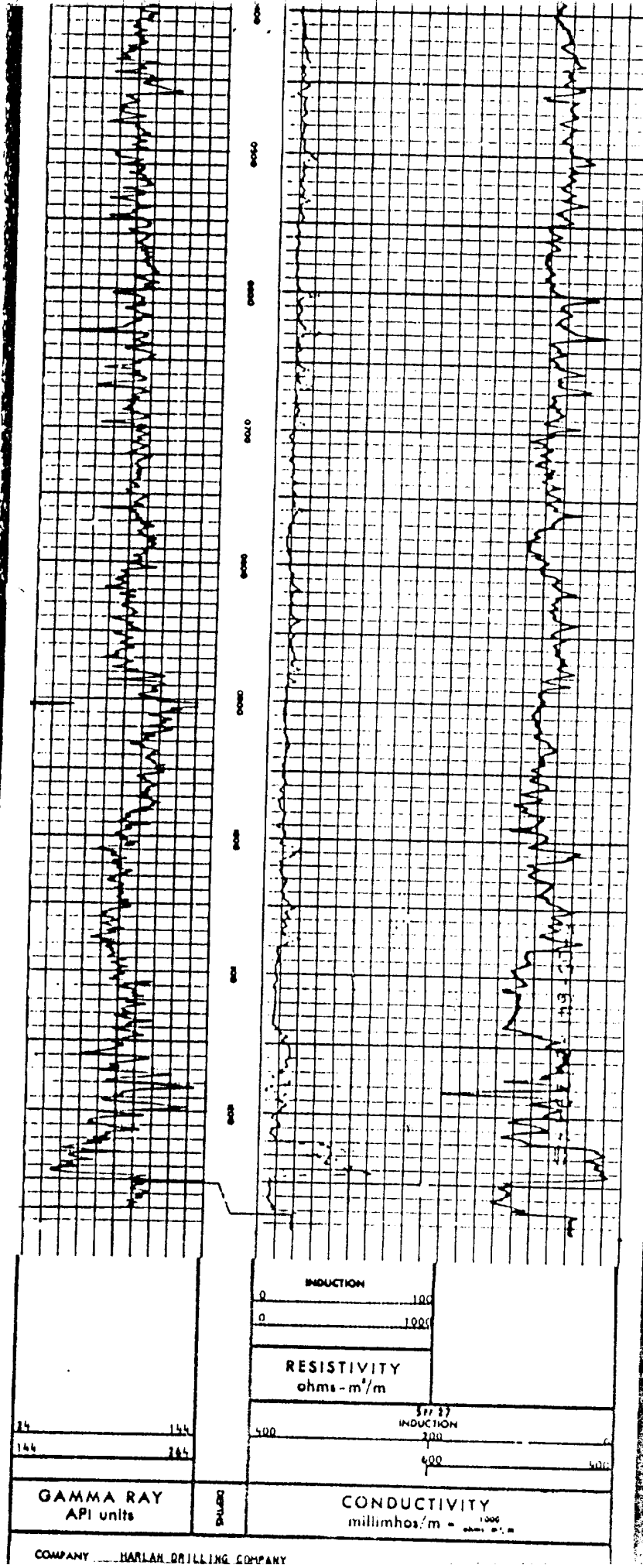




CALIBRATION DATA

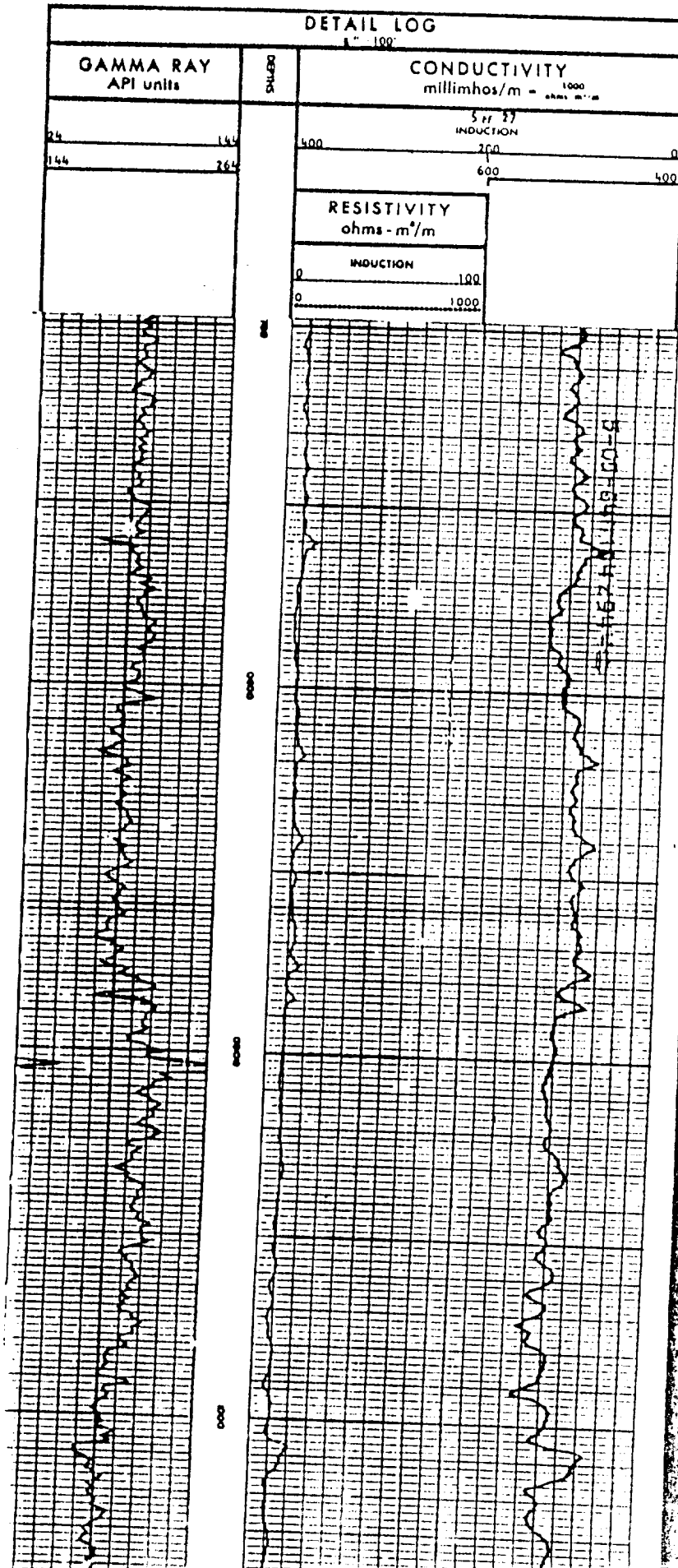
COMPANY HARLAN DRILLING COMPANY Rm SWSC PR 1276
WELL NAYATO #1 BHT ISM P SWSC TO 1278
FIELD WILCAT OAR ID 1283
COUNTY SAN JUAN STATE NEW MEXICO Elev.
KB NA
DP NA
GIS# 111

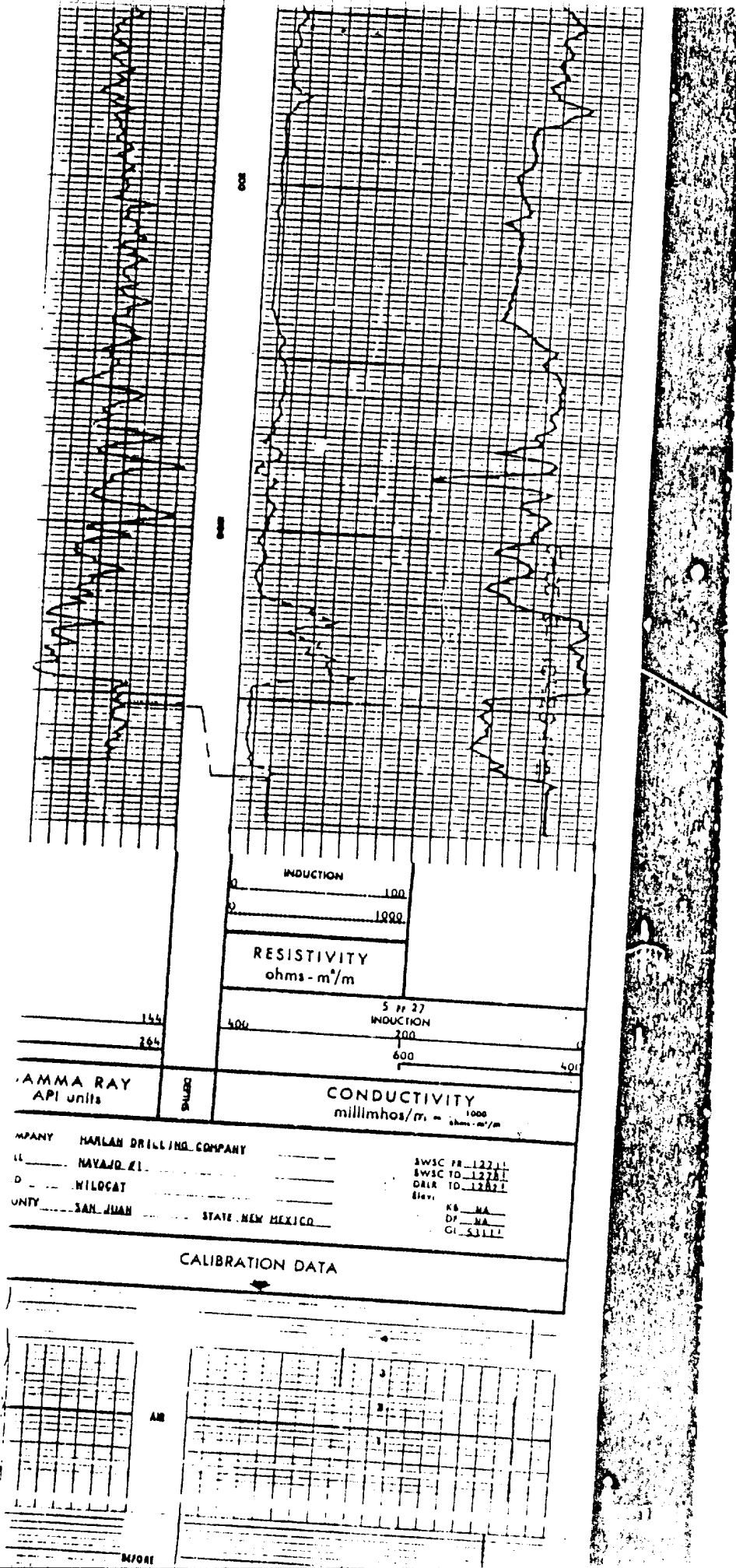
[illegible][illegible]



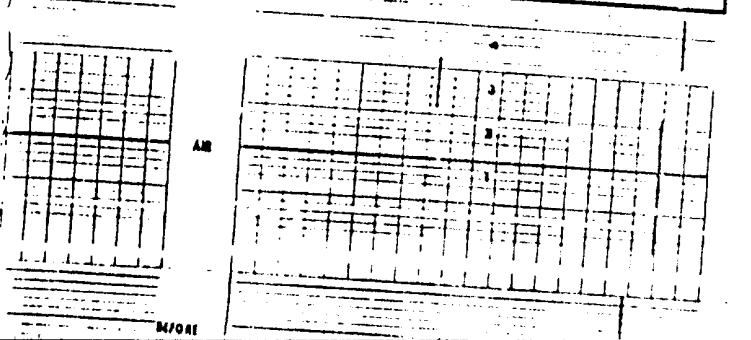
		INDUCTION	
		0	100
		0	1000
		RESISTIVITY	
		ohms-m/m	
		INDUCTION	
		500	1000
		200	1000
		400	1000
GAMMA RAY API units		CONDUCTIVITY millimhos/m = $\frac{1000}{\text{ohms-m/m}}$	
24	144		
144	245		

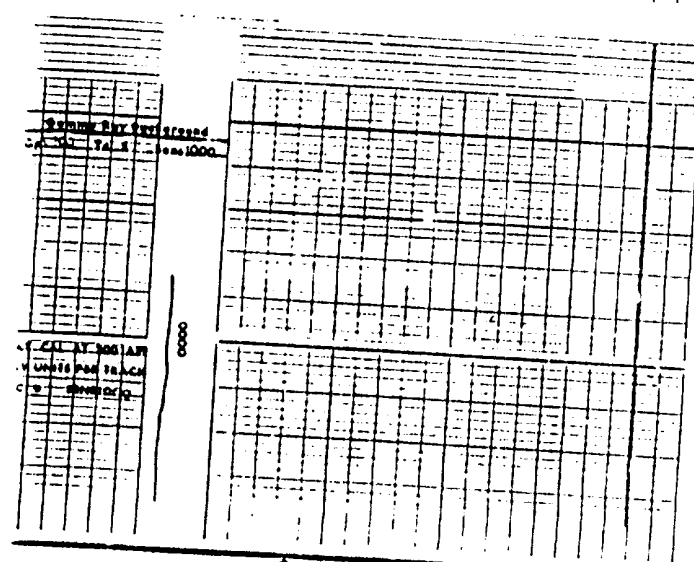
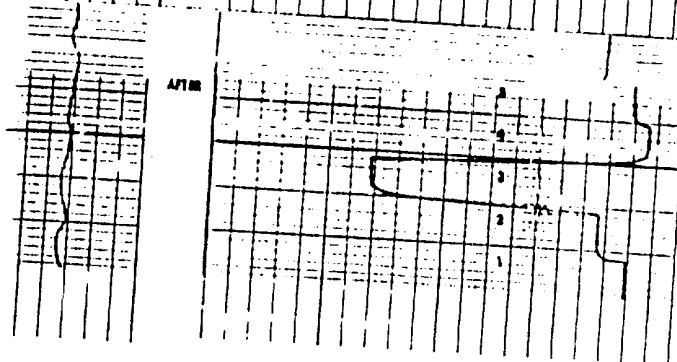
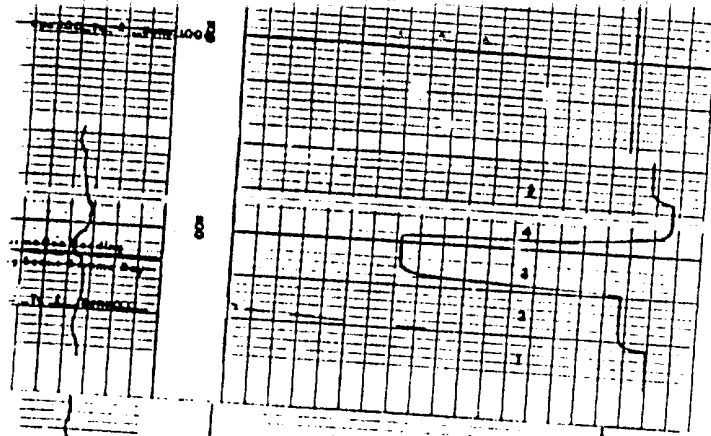
WELL	WILDCAT		Elev.	KB	MA
COUNTY	SAN JUAN	STATE	NEW MEXICO	DP	MA
				CL	SILL





INDUCTION	
0	100
0	1000
RESISTIVITY ohms - m/m	
0	5 ft 27
400	INDUCTION
	200
	600
	400
AMMA RAY API units	CONDUCTIVITY millimhos/m. = 1000 ohms - m/m
COMPANY HALLAM DRILLING COMPANY	
LOC. NAYAJA #1	
D. WILCOAT	
UNITY SAN JUAN	STATE NEW MEXICO
SWSC FR 12211	
SWSC TO 12781	
DRA TO 12821	
Elev. KS - MA	
DF - MA	
GL 53111	
CALIBRATION DATA	





CALIBRATION DATA

HARIAN DRILLING COMPANY
 NAVAJO #1
 WILDCAT
 SAN JUAN STATE NEW MEXICO

SWSC FR-12211
 SWSC TO-12281
 DRIR TO-12221
 Elev. KB-NA
 DP-NA
 GI-51111

UNIVERSITY MICROFILMS INTERNATIONAL



Miller Liny

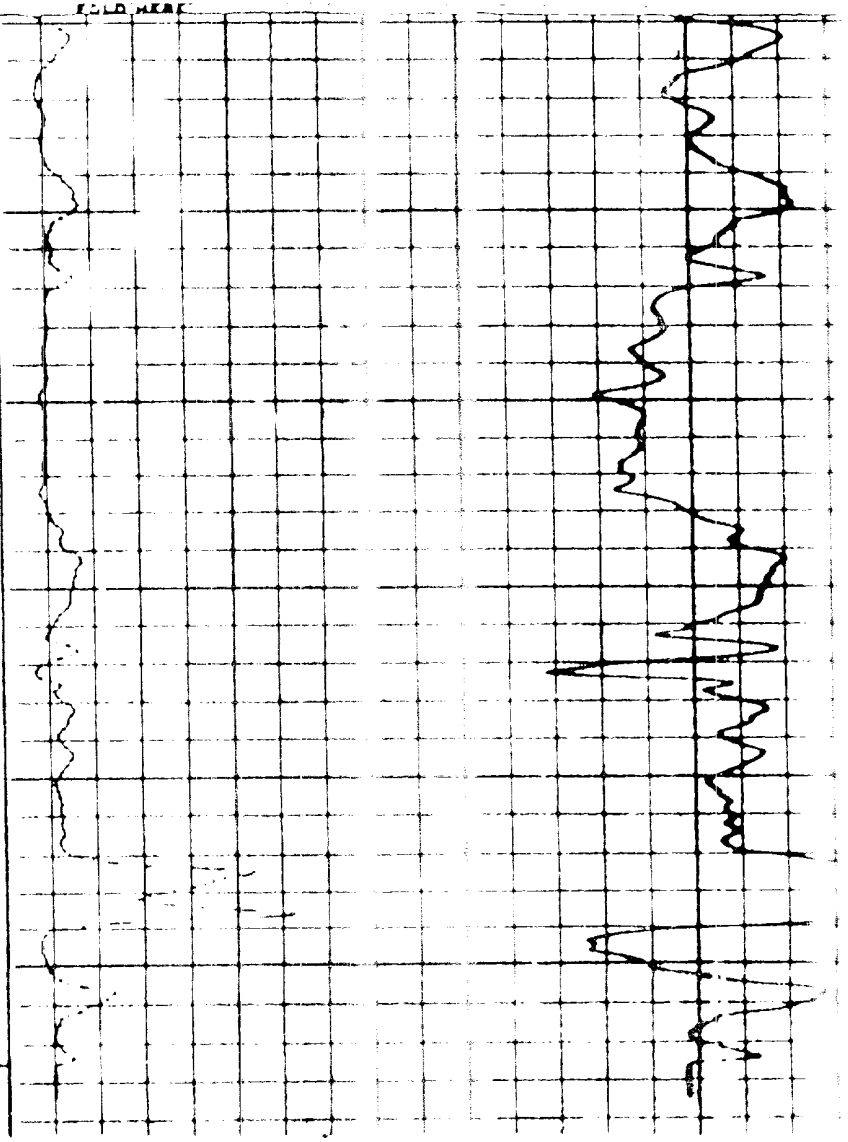
COUNTY SAN JUAN, N.M.		FIELD or LOCATION UNDESIGNATED		WELL NO. 7 NAVAJO	
COMPANY EXPLORATION DRILLING COMPANY					
COMPANY EXPLORATION DRILLING		COMPANY		WELL NO. 7 NAVAJO	
FIELD UNDESIGNATED		LOCATION SEC. 24-32N-18W		COUNTY SAN JUAN	
STATE NEW MEXICO		Elevation: D.F. --		K.B. 55761	
FILING No.		or G.L. 55651		3301 F.W.L.	
Other Surveys NONE		Location of Well		3301 F.W.L.	

RUN No. ONE		Date 1-19-62		First Reading 1475	
Feet Measured 200		Csg. Schlum. 1275		Csg. Driller 35	
Depth Reached 1481		Bottom Driller 1482		Depth Datum KB	
Head Not.		Dens. Visc.		Head Resist.	
Reg. BMT		Rmt		Rmc	
pH		Wtr. Loss		Sigs.	
IND.		SFF40		WATER	

RECEIVED

FEB 12 1962

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO



DETAIL LOG

5" = 100'

CONDUCTIVITY

μmhos/m = $\frac{1000}{\text{ohms} \cdot \text{m} / \text{cm}}$

DEPTHS

Other Services:
NONE

Elev.: K.B. 5351.5
D.F. --
G.L. 5347.1

Run No.	ONE
---------	-----

Depth—Driller	1380
---------------	------

Depth—Logger	1380
--------------	------

Bottom logged interval	1379
------------------------	------

Top logged interval	1000
---------------------	------

Type fluid in hole	Oil

Salinity, PPM Cl.	--
-------------------	----

Density	--
---------	----

Level	Full
-------	------

Max rec. temp., deg f.	--
------------------------	----

Operating rig time	Hour

Recorded by	HANDLE
MD	DEPT

Witnessed by	MR. PENN
--------------	----------

DATE	BORE HOLE RECORD
------	------------------

K017	BOOK-HOLE	RECORD	To
N/3	B14	FROM	

NO.	DATE	TIME	TD
1	1/4	CSG	

	-			
	C	-		
	f			
	C			
	C			
	C			
	.			

[illegible][illegible]

--	--	--	--

--	--	--	--

RECEIVED

SEP 16 1962

OIL CON. C

DIST

7

K

[illegible]

--	--

[illegible]

CASE

Wol.	
------	--

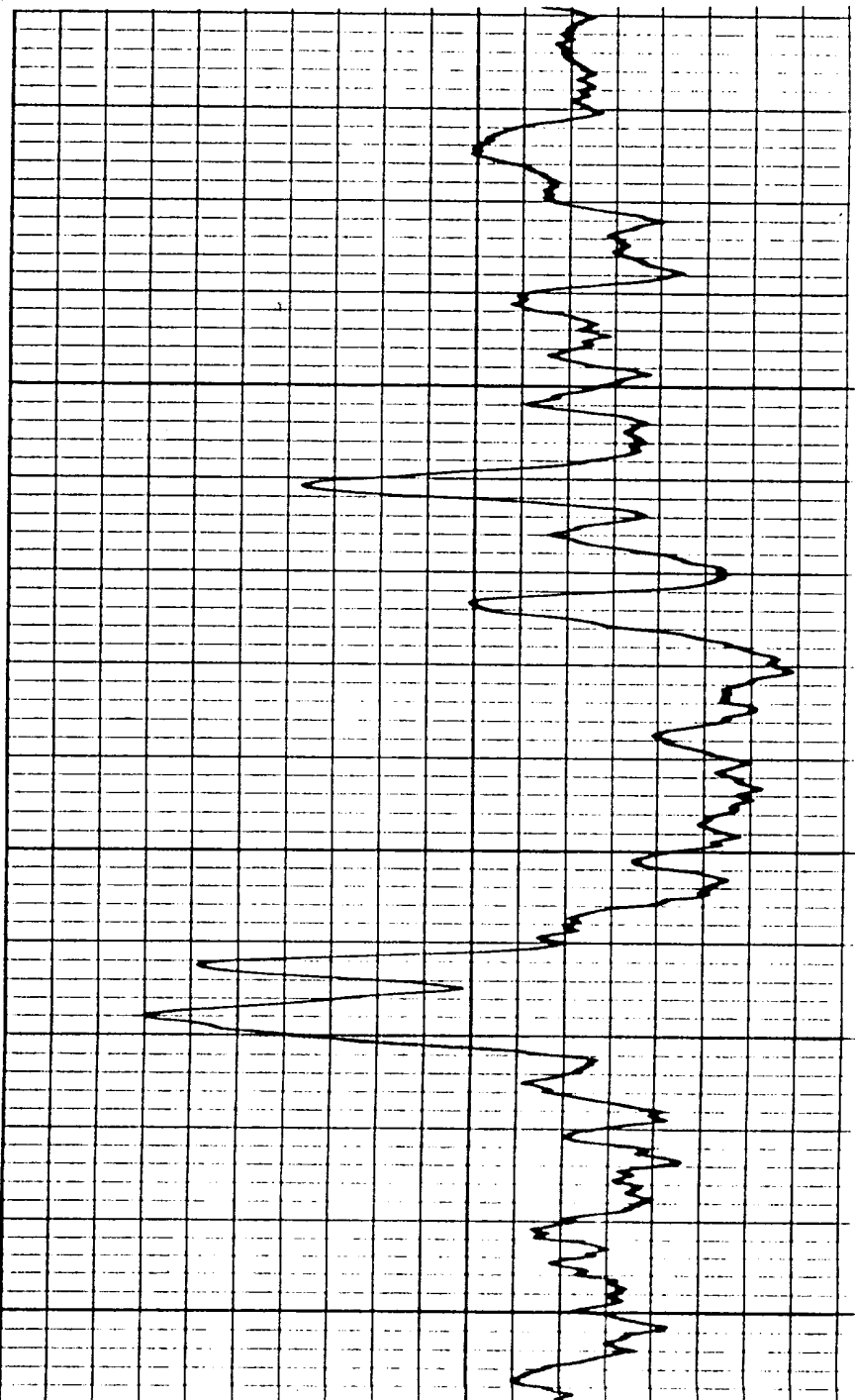
711	
-----	--

[illegible][illegible][illegible][illegible]

01250

01300

013550



COUNTY SAN JUAN, N.M.
FIELD or LOCATION UNDES. GALLUP
WELL NAVAJO TRIBAL "C" #3
COMPANY TEXAS PACIFIC COAL & OIL COMPANY

COMPANY TEXAS PACIFIC COAL & OIL COMPANY

WELL NAVAJO TRIBAL "C" # 3

FIELD UNDESIGNATED GALLUP

COUNTY SAN JUAN STATE NEW MEXICO

Location: 330' FSL
2310' FEL

Other Services:
NONE

Sec. 14 Twp. 32N Rge. 18W

Permanent Datum: GL; Elev.: 5341'
Log Measured From KB, 4.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5351.5
D.F. --
720 GL 5347'

Date 3-22-62

Run No. ONE

Type Log GAMMA GAMMA

Depth—Driller 1380

Depth—Logger 1380

Bottom logged interval 1379

Top logged interval 1000

Type fluid in hole Oil

Salinity, PPM Cl. --

Density --

Level FULL

Max rec. temp., deg F. --

Operating rig time 1 1/4 HOURS

Recorded by HANDLEY

Witnessed by MR. PENTILLA

RECEIVED

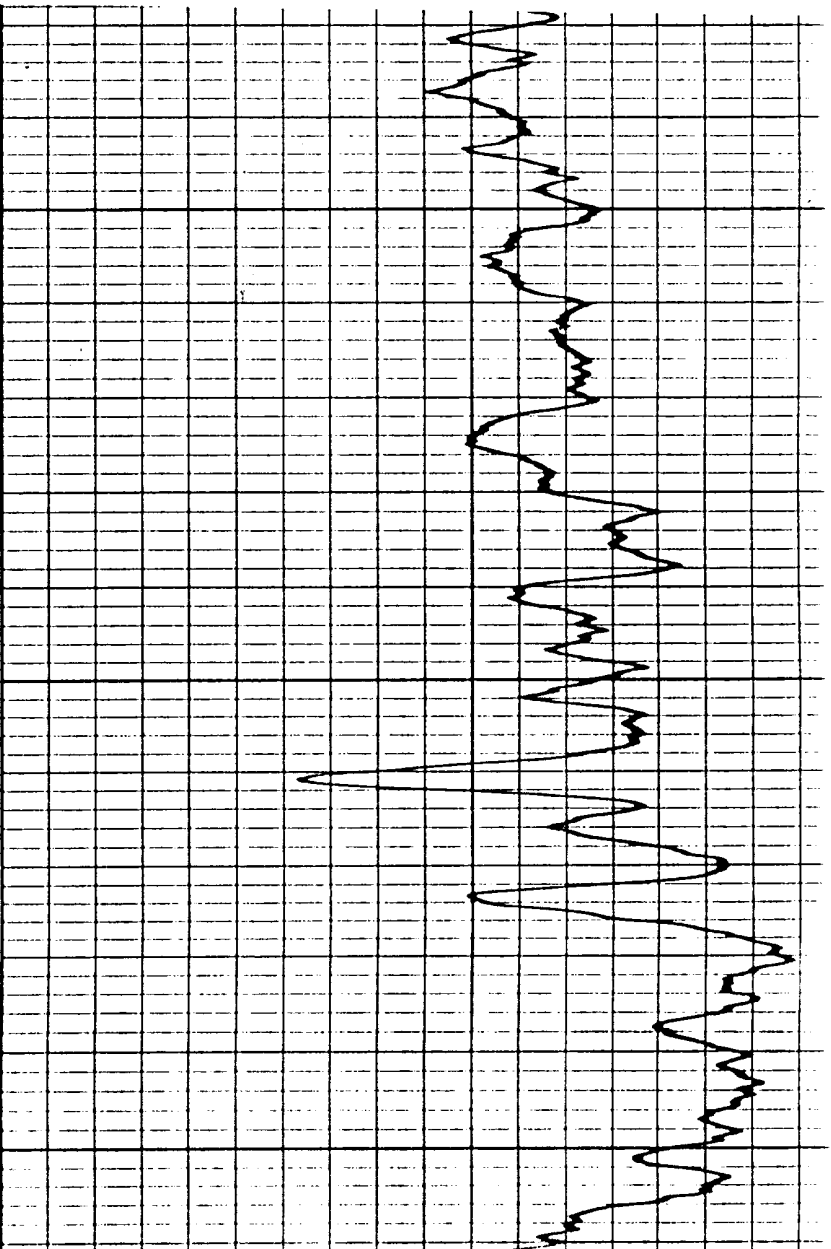
SEP 16 1962

OIL CON. C.
DIST. 3

RUN BORE-HOLE RECORD CASING RECORD

No. Bit From To Size Wgt. From To

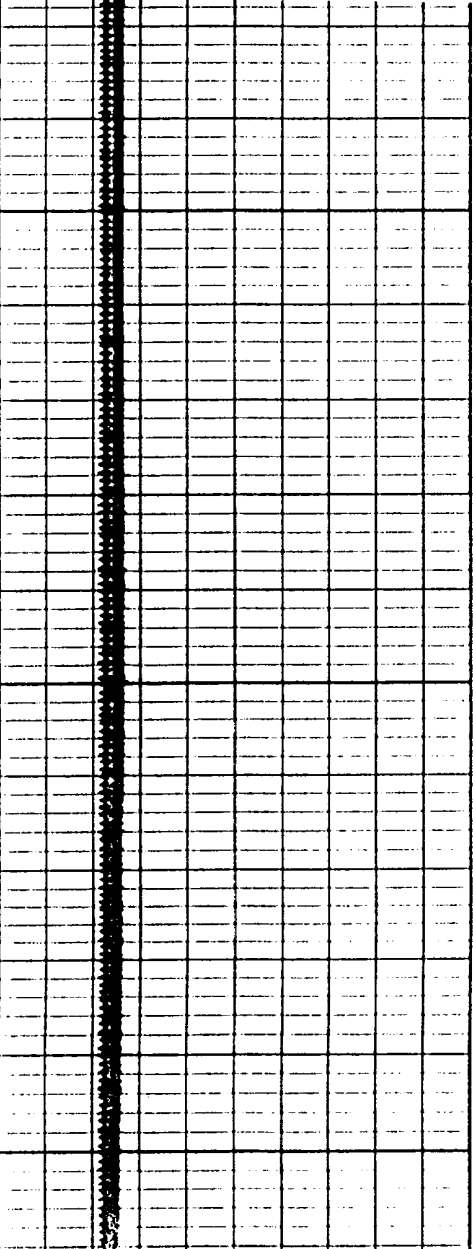
1 6 1/4 CSG. TD 7" SURF. 39'



01200

01250

01300






PROOF OF NOTIFICATION

- NAVAJO TRIBE
- DAILY TIMES

RECEIVED
JUN 12 1994
OIL CON. DIV.
DIST. 3

SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3 and 4a & 1b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt Fee will provide you the signature of the person delivered to, and the date of delivery.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input checked="" type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Jim Benally, Land Administration Project Review Section Navajo Nation P. O. Box 308 Window Rock, AZ 86515		4a. Article Number P 794 519 154	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
		7. Date of Delivery: 12-10-93	
5. Signature (Addressee)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature (Agent) 			
PS Form 3800, November 1990 • U.S. GPO: 1991-287-066 DOMESTIC RETURN RECEIPT			

P 794 519 154



Certified Mail Receipt

No Insurance Coverage Provided
 Do not use for International Mail
 (See Reverse)

Sent to Mr. Jim Benally Land Administration	
Street & No. Project Review Section Navajo Nation - P.O. Box 308	
P.O., State & ZIP Code Window Rock, AZ 86515	
Postage	\$.29
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$ 2.29
Postmark or Date 12-8-93	

PS Form 3800, June 1990

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping204 N. Auburn
Farmington, New Mexico 87401
(505) 327-4892

December 8, 1993

Mr. Jim Benally
Land Administration
Project Review Section
Navajo Nation
P.O. Box 308
Window Rock, AZ 86515

Dear Mr. Benally,

21st Century Investments, the operator of the Mesa Gallup Waterflood, proposes to convert three currently producing wells into water injection wells. This is an expansion of an existing project. The three wells planned for conversion are located in sections 14, 15, and 24 T32N R18W on Navajo surface land. Water will be injected into the Mesa Gallup formation at a maximum rate of 300 b/d at 1300 psig.

Questions concerning this proposal can be sent to Paul Thompson, P.E., Walsh Engineering and Production Corp., 204 N. Auburn, Farmington, NM 87401 (505) 327-4892.

As the surface owner you are being notified pursuant to NMOCD regulations. You should file comments or objections and requests for hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87504-2088 within 15 days.

Sincerely,

Paul C. Thompson, P.E.

AFFIDAVIT OF PUBLICATION

COPY OF PUBLICATION

No. 32632

STATE OF NEW MEXICO,
County of San Juan:

C.J. SALAZAR being duly sworn, says: "That she is the CLASSIFIED MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (DAYS) (/////) on the same day as follows:

First Publication WEDNESDAY, DECEMBER 15, 1993

Second Publication _____

Third Publication _____

Fourth Publication _____

and the cost of publication was \$ 18.37

C.J. Salazar
On Jan. 3, 1994 C.J. Salazar appeared before me, whom I know personally to be the person who signed the above document.

Sunny Beck
Notary Public, San Juan County,
New Mexico

My Comm expires: APRIL 2, 1996

LEGAL NOTICE

21st Century Investments, the operator of the Mesa Gallup Waterflood, proposes to convert three currently producing wells into water injection wells. This is an expansion of an existing project. The three wells planned for conversion are located in sections 14, 15, and 24 T32N R18W. Water will be injected into the Mesa Gallup formation at a maximum rate of 300 b/d at 1300 psig.

Questions concerning this proposal can be sent to Paul Thompson, P.E., Walsh Engineering and Production Corp., 204 N. Auburn, Farmington, NM 87401 (505) 327-4892.

Interested parties should file comments or objections and requests for hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87504-2088 within 15 days.

Legal No. 32632 published in the Farmington Daily Times, Farmington, New Mexico on Wednesday, December 15, 1993.

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping204 N. Auburn
Farmington, New Mexico 87401
(505) 327-4892

December 8, 1993

Farmington Daily Times
P. O. Box 450
Farmington, New Mexico 87499REF: Legal Notification
21st Century Investment Company

Dear Sirs:

Please publish the enclosed article one time in the "Legal Notice" section of your newspaper at the earliest possible date.

Please forward a copy of the published article and your invoice to 21st Century Investment Company at the above address.

Sincerely,


Ruth E. Rogge

rr

Enclosure



Legal Notice
Daily Times

21st Century Investments, the operator of the Mesa Gallup Waterflood, proposes to convert three currently producing wells into water injection wells. This is an expansion of an existing project. The three wells planed for conversion are located in sections 14,15, and 24 T32N R18W. Water will be injected into the Mesa Gallup formation at a maximum rate of 300 b/d at 1300 psig.

Questions concerning this proposal can be sent to Paul Thompson, P.E., Walsh Engineering and Production Corp., 204 N. Auburn, Farmington, NM 87401 (505) 327-4892.

Interested parties should file comments or objections and requests for hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87504-2088 within 15 days.