

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Depec EXHIBIT NO. 44.5
CASE NO. 44.5

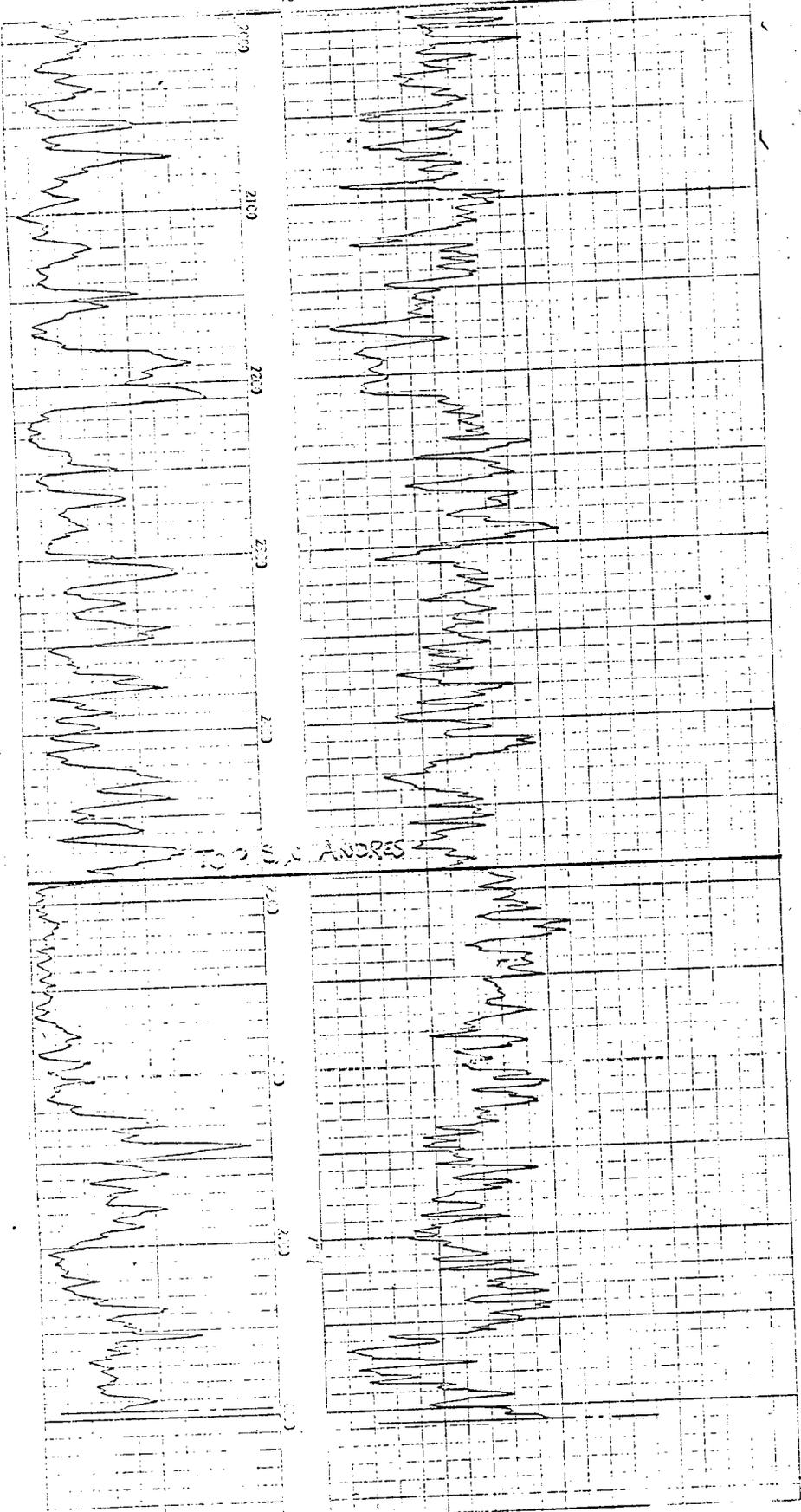
LOGS

STATE NO. 92
 WELL: STATES ID. 92
 FIELD: MISSISSIPPI
 LOCATION: 520' EEE & 120' NEE OF SEC. 25,
 COUNTY: HUNT, MISSISSIPPI
 LOG ZERO: 1000
 DIALG. ZERO: 1000
 PERM. DATUM: 1000
 ELEV. 1000
 ELEV. 1000
 ELEV. 1000

DATE OF LOG: 10/1/52
 NO. OF LOGS: 1
 DEPTH (CONVERTER):
 DEPTH (MILLER):
 OF LOGGED INTERVAL:
 OF FLUID IN HOLE:
 ID LEVEL:
 MINIMUM RECORDED TEMPERATURE:
 FORCE STRENGTH & TYPE:
 FORCE SPACING - IN.:
 LENGTH OF MEAS. DEVICE - IN.:
 OF INSTRUMENT - IN.:
 TIME CONSTANT - SECONDS:
 LOGGING SPEED FT./MIN.:
 STATISTICAL VARIATION - IN.:
 SENSITIVITY REFERENCE:

RECORDED BY: [Signature]
 WITNESSED BY: [Signature]

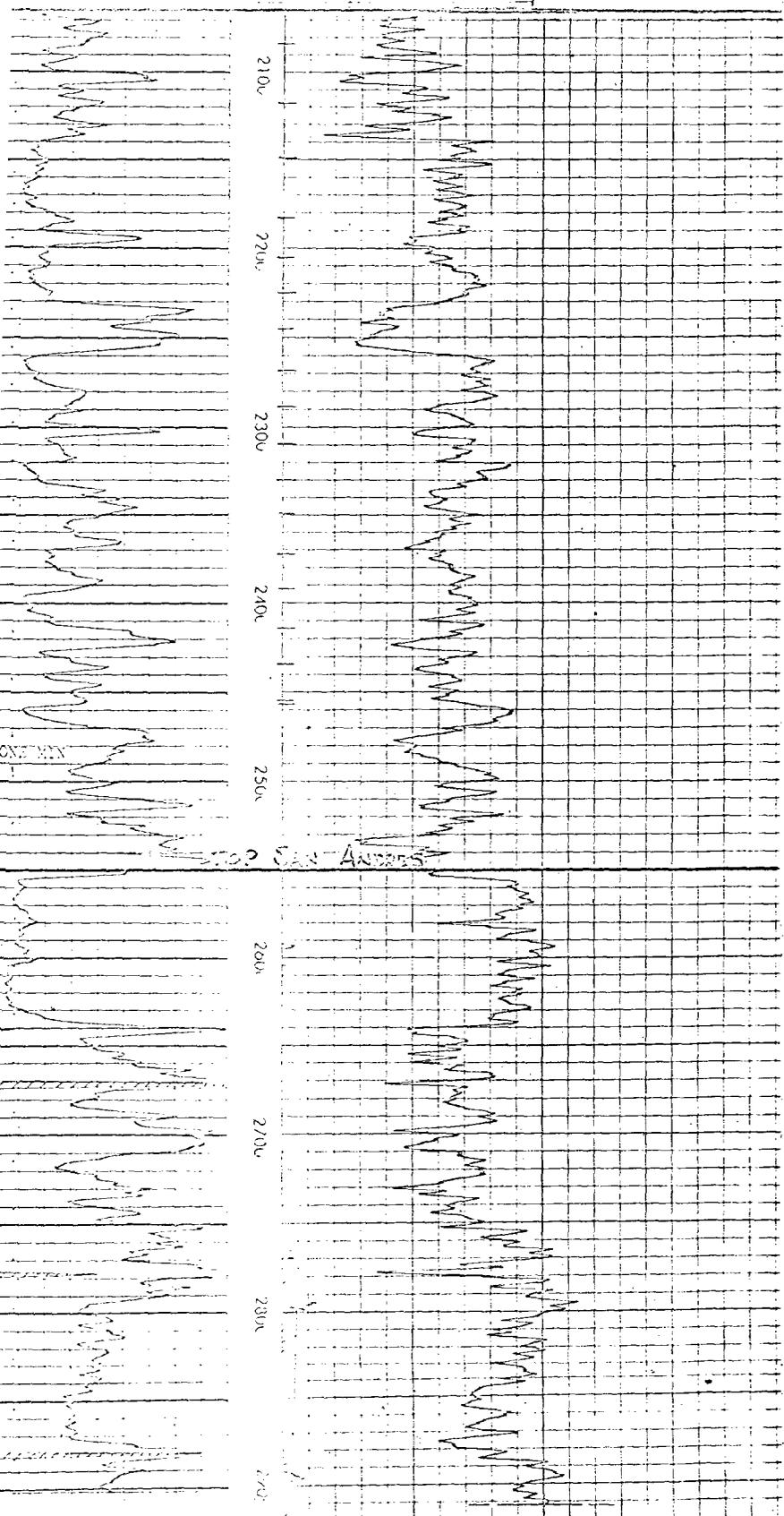
RUN	BITSIZE	CASING WT.	WELL RECORD FROM WELL RECORD	FROM LOG
1	8 5/8"	20	1000-1000	1000-1000
2	8 5/8"	20	1000-1000	1000-1000
3	8 5/8"	20	1000-1000	1000-1000
4	8 5/8"	20	1000-1000	1000-1000
5	8 5/8"	20	1000-1000	1000-1000
6	8 5/8"	20	1000-1000	1000-1000
7	8 5/8"	20	1000-1000	1000-1000
8	8 5/8"	20	1000-1000	1000-1000
9	8 5/8"	20	1000-1000	1000-1000
10	8 5/8"	20	1000-1000	1000-1000



RADIOACTIVITY LOG

URAL GAMMA RADIATION INDUCED GAMMA RADIATION

STATION # 100	State, N. M.	Location
FIELD, Artesia	COMPANY MALCO-RESLER-YATES	Sec. 27
County, Eddy	FILE	Twp. 18
	WELL STATE # 100	Age. 28
	FIELD Artesia	
	COUNTY Eddy STATE New Mex.	
	SEC 27 TWP. 18 RGE 23	Elev. D.M. 3571'
	SURVEY	K.S. 3572'
		Grd.
Measured From Derrick Floor	Elevation	3571'
Log Measured From Derrick Floor	Elevation	3571'
Log Measured From Derrick Floor	Elevation	3571'
Log Level	96 F	96 F
Temp.		
Iron Source Strength	300mg	
Geo Center of Counter	in.	in.
Depth Meas. Device-in	2820	2820
Depth of Instrument-in	3-5-50	3-5-50
Constant-sec	2	
Log Speed Ft. min.	See Remarks	
Iron Source Code	Blue	
CR No.	4132	4132
Recorded by	J. E. ...	

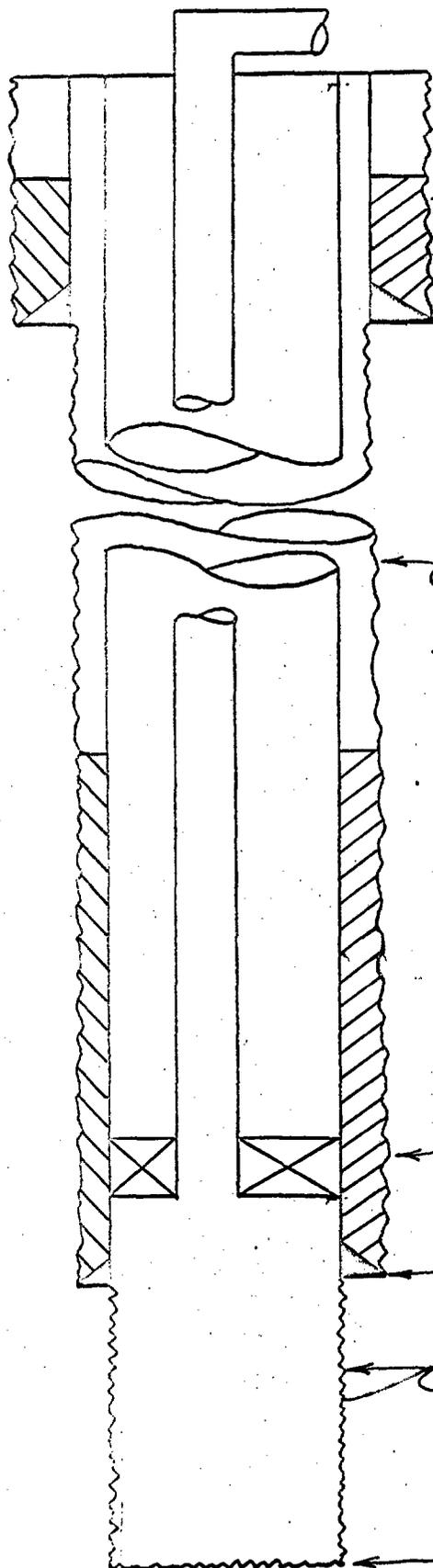


BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Depco EXHIBITS NO. 3, A - E
CASE NO. 4415

DIAGRAMMATIC SKETCHES

DIAGRAMMATIC SKETCH
PRESENT WELL CONDITIONS
STATE 647 WELL NO. 82
SE NW

Elevation: 3585 D.F.
Location: Unit F, 2310' FNL and WL of
Sec. 27, T.18S., R.28E.,
Eddy Co., New Mexico



11" Hole.

8 5/8" casing set at approximately 624',
and cemented with 50 sk. Estimated
cement top 300' from surface.

7 7/8" Hole.

2 3/8" Internally plastic-coated
tubing set in packer.

Packer set at 2402'

7" casing set at 2471' and cemented with
100 sk. Estimated cement top 1900' from
surface.

6 1/4" Hole

TD 2926'

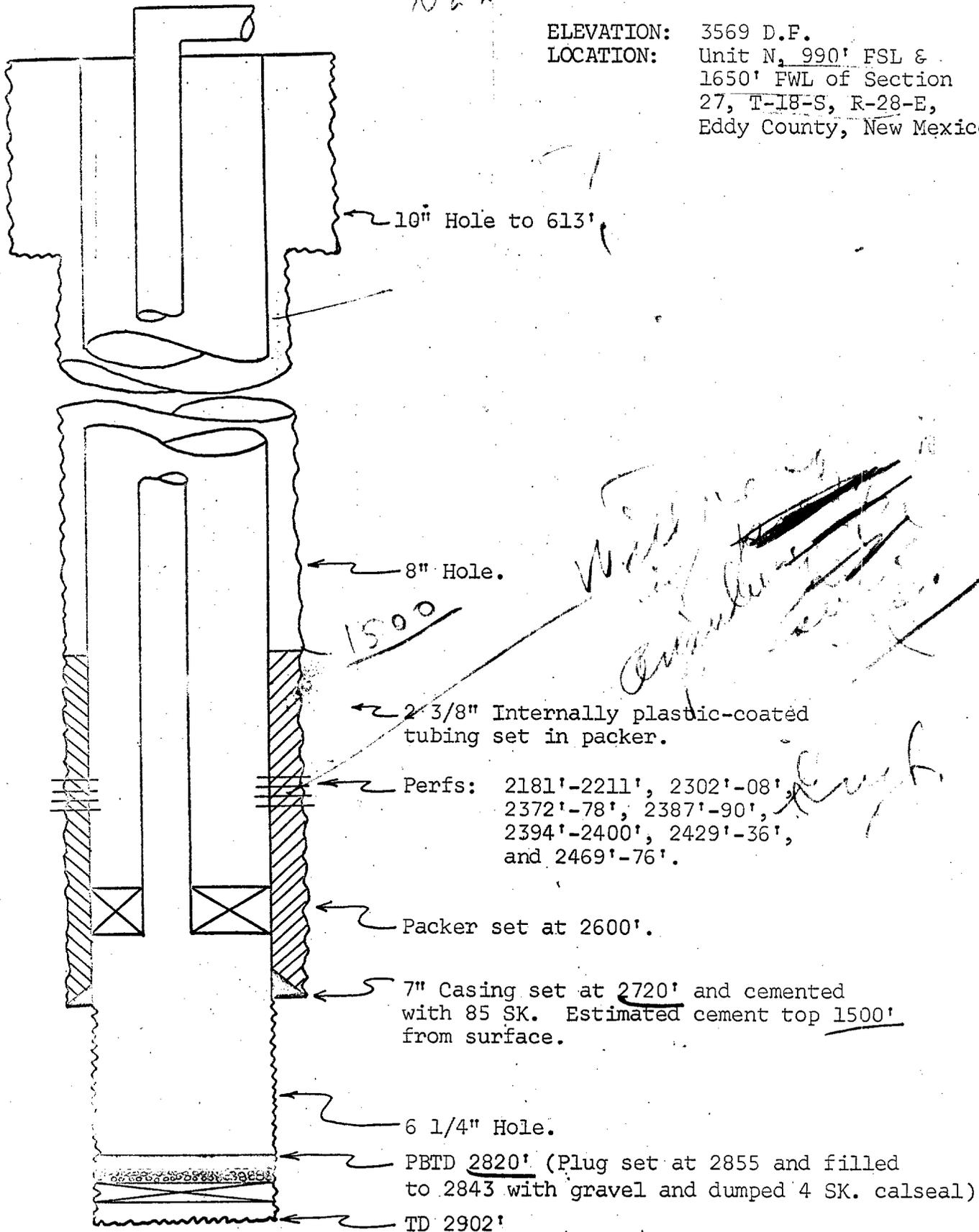
Clear 80' ...
...
...

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 92

NE NW - 27

ELEVATION: 3569 D.F.
LOCATION: Unit N, 990' FSL &
1650' FWL of Section
27, T-18-S, R-28-E,
Eddy County, New Mexico.

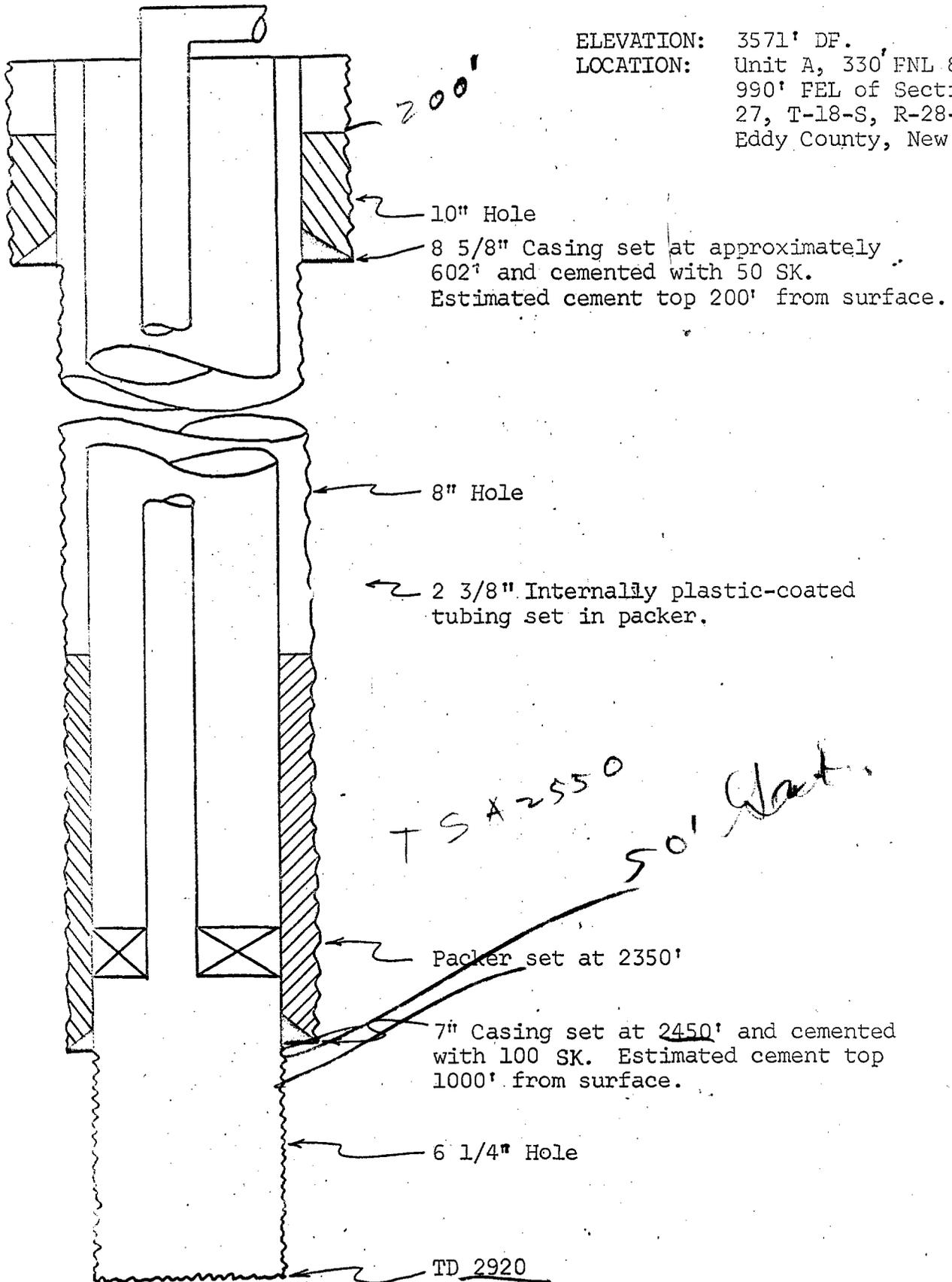


*Will be
completed by
1/27/50*

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 100

ELEVATION: 3571' DF.
LOCATION: Unit A, 330' FNL &
990' FEL of Section
27, T-18-S, R-28-E,
Eddy County, New Mexico



10" Hole

8 5/8" Casing set at approximately 602' and cemented with 50 SK. Estimated cement top 200' from surface.

8" Hole

2 3/8" Internally plastic-coated tubing set in packer.

Packer set at 2350'

7" Casing set at 2450' and cemented with 100 SK. Estimated cement top 1000' from surface.

6 1/4" Hole

TD 2920

200'

TSA 2550

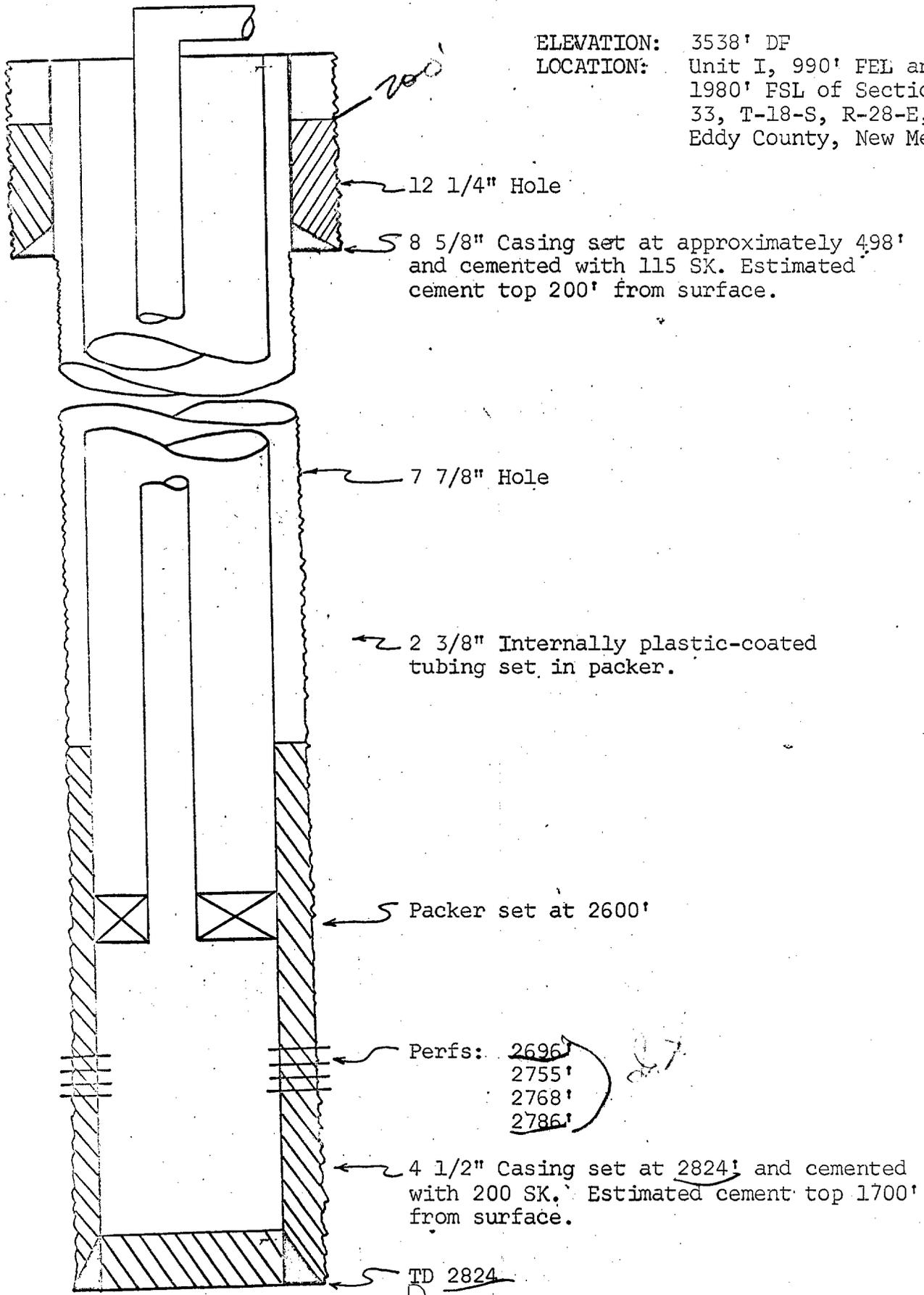
50' Gant.

C

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 207

ELEVATION: 3538' DF
LOCATION: Unit I, 990' FEL and
1980' FSL of Section
33, T-18-S, R-28-E,
Eddy County, New Mexico



12 1/4" Hole

8 5/8" Casing set at approximately 498'
and cemented with 115 SK. Estimated
cement top 200' from surface.

7 7/8" Hole

2 3/8" Internally plastic-coated
tubing set in packer.

Packer set at 2600'

Perfs: 2696'
2755'
2768'
2786'

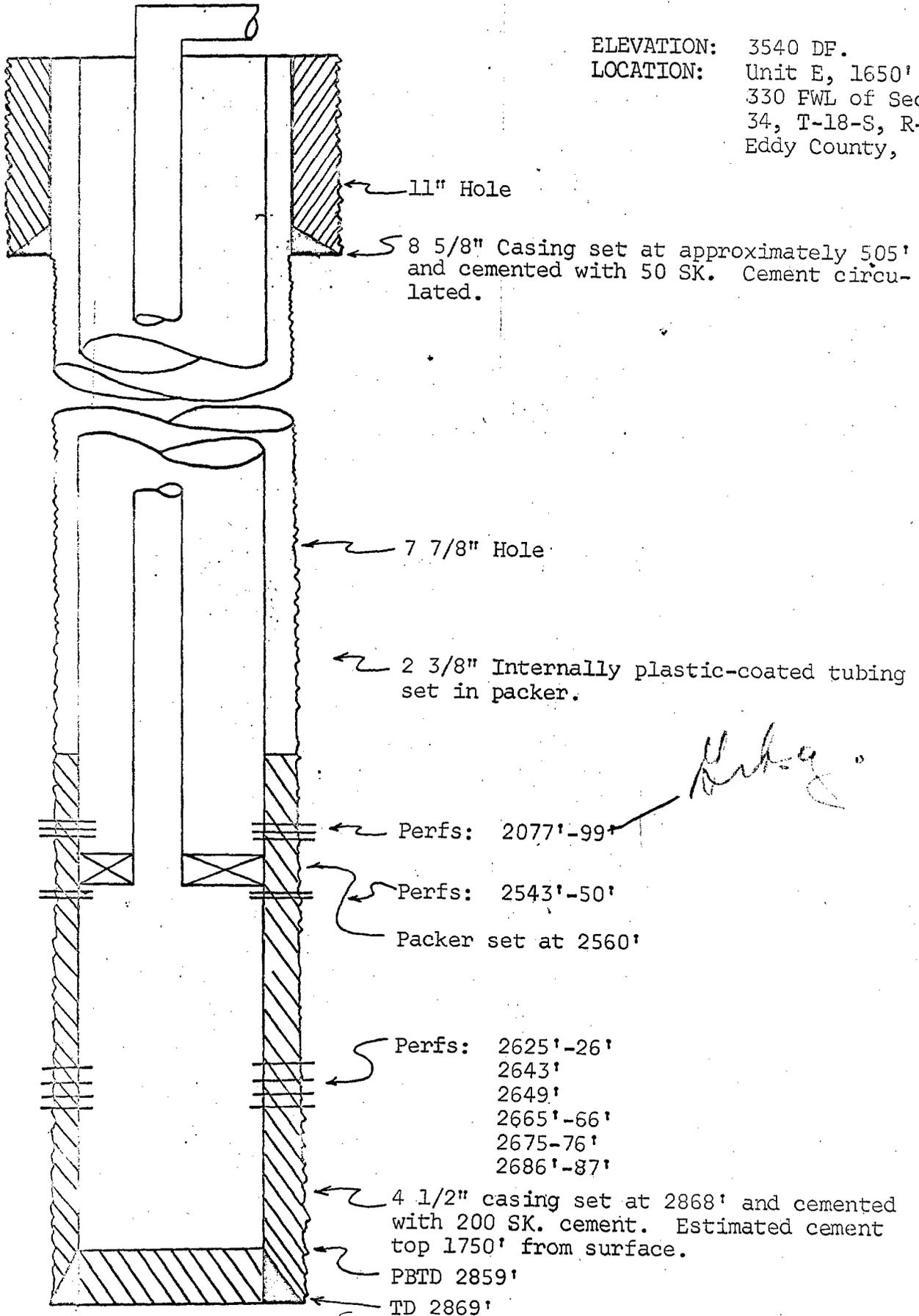
4 1/2" Casing set at 2824' and cemented
with 200 SK. Estimated cement top 1700'
from surface.

TD 2824'

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 217

ELEVATION: 3540 DF.
LOCATION: Unit E, 1650' FNL &
330 FWL of Section
34, T-18-S, R-28-E,
Eddy County,



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Depeco EXHIBIT NO. 4
CASE NO. 4415

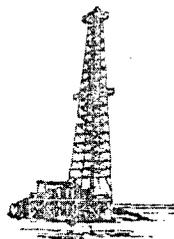
INITIAL PROJECT AREA
CAMP WATERFLOOD
INDIVIDUAL WELL DATA

<u>Lease</u>	<u>Well No.</u>	<u>Cumulative Oil as of 7-1-70</u>	<u>July BOPD</u>	<u>Date of Completion Mo. - Yr.</u>	<u>Completion Interval</u>	<u>Stimulation</u>
State 647 AC 711	68	57,203	1	7-34	2233-2877'	2000 gals acid
	70	46,581	6	10-35	2305-2871'	80 qts nitro & 3500 gals acid
	74	92,242*	2	10-36	2210-2825'	150 qts nitro & 3000 gals acid
	<u>82</u>	*	SWD✓	11-47✓	2471-2924'	5500 gals acid
	83	42,447	5	5-48	2614-2775'	3000 gals acid & 43,000 gal frac
	84	87,266	8	1-48	1952-2842'	4000 gals acid & 40,000 gal frac
	85	47,895	4	1-48	2605-2848'	2500 gals acid & 38,000 gal frac
	86	37,972	5	2-48	2115-2870'	2000 gals acid & 40,000 gal frac
	87	77,520	3	1-48	2236-2833'	40,000 gal frac
	89	47,154	4	2-48	2703-2884'	2500 gals acid
	90	40,558	5	4-48	2097-2796'	5000 gals acid & 38,000 gal frac
	<u>92</u>	31,743	3✓	7-48✓	2181-2855'	9000 gals acid & 50,000 gal frac
	93	23,732	2	11-56	1987-2514'	50,000 gal frac
	<u>100</u>	60,253	1✓	7-49✓	2450-2920'	3000 gals acid & 20,000 gal frac
	101	44,398	1	1-50	2800-2890'	4500 gals acid
200	11,411	SI	4-64	2534-2849'	2750 gals acid & 17,500 gal frac	
State 647 AC 721	199	32,910	7	3-64	2663-2777'	30,000 gal frac
	201	28,246	6	6-64	2652-2787'	7000 gals acid & 25,000 gal frac
	<u>207</u>	10,988	4✓	4-66	2696-2786'	500 gals acid & 40,000 gal frac
	<u>217</u>	7,492	4✓	12-66	2077-2687'	3500 gals acid & 39,000 gal frac
State 647 AC 731	205	38,802	12	5-65	2006-2769'	1750 gals acid & 40,000 gal frac
State E-1288	<u>81</u>	<u>64,995</u>	<u>4</u>	8-47	2283-2872'	4000 gals acid
Total	<u>21</u>	931,808	87			

*Cumulative was carried combined on Wells No. 74 and 82 since both wells are located in the same proration unit.

DEPCO, Inc.

Exploration & Production



800 Central
ODESSA, TEXAS 79760

July 30, 1970

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Case 4415

Subject: Application for Injection
of Water
Project: Proposed Camp Waterflood
Field : Artesia
County : Eddy

Gentlemen:

DEPCO, Inc. requests a hearing to approve injection of water into the San Andres pay for the purpose of waterflood operations in the proposed Camp Flood. This project area is shown by the plat, Exhibit 1 and is located in sections 22, 23, 27, 28, 33, and 34, T-18-S, R-28-E, Eddy County, New Mexico.

This application also requests approval to permit producers State 647 Wells No. 90, 92, 100, 207, and 217 to be converted to water injection status. The attached plat also shows the location of the present produced water injector, proposed water injectors, producing wells, and lease ownership within a two-mile radius of the proposed injectors. Exhibit 2 contains logs or portions of logs over the zones of interest for the five (5) proposed injection wells. Also, diagrammatic sketches for these wells are presented in Exhibit 3.

Injection will be into the San Andres pay at an approximate depth of 2700'. Approximately 500 BWPD will be injected into each of the proposed injectors. Water for this project will be purchased from one of the water companies which have distribution facilities in the vicinity.

Very truly yours,

A handwritten signature in cursive script that reads "W. C. Smith".

W. C. Smith
District Engineer

WCS: mas

Attachments

cc: NMOCC-Artesia
John Strader-Denver
Leon Standard-Artesia

LOGS

INDEPENDENT WELLS Radioactivity Log

STATE NO. 90
 WELLS: ARTESIA
 COUNTY: EDDY
 LOCATION: ARTESIA

COMPANY: RESLER & TATES ETAL
 WELL: STATE NO. 90
 FIELD: ARTESIA
 COUNTY: EDDY STATE: N.M.
 LOCATION: NW 1/4 OF NW 1/4 SEC. 34, T-10-S
 R-20-E

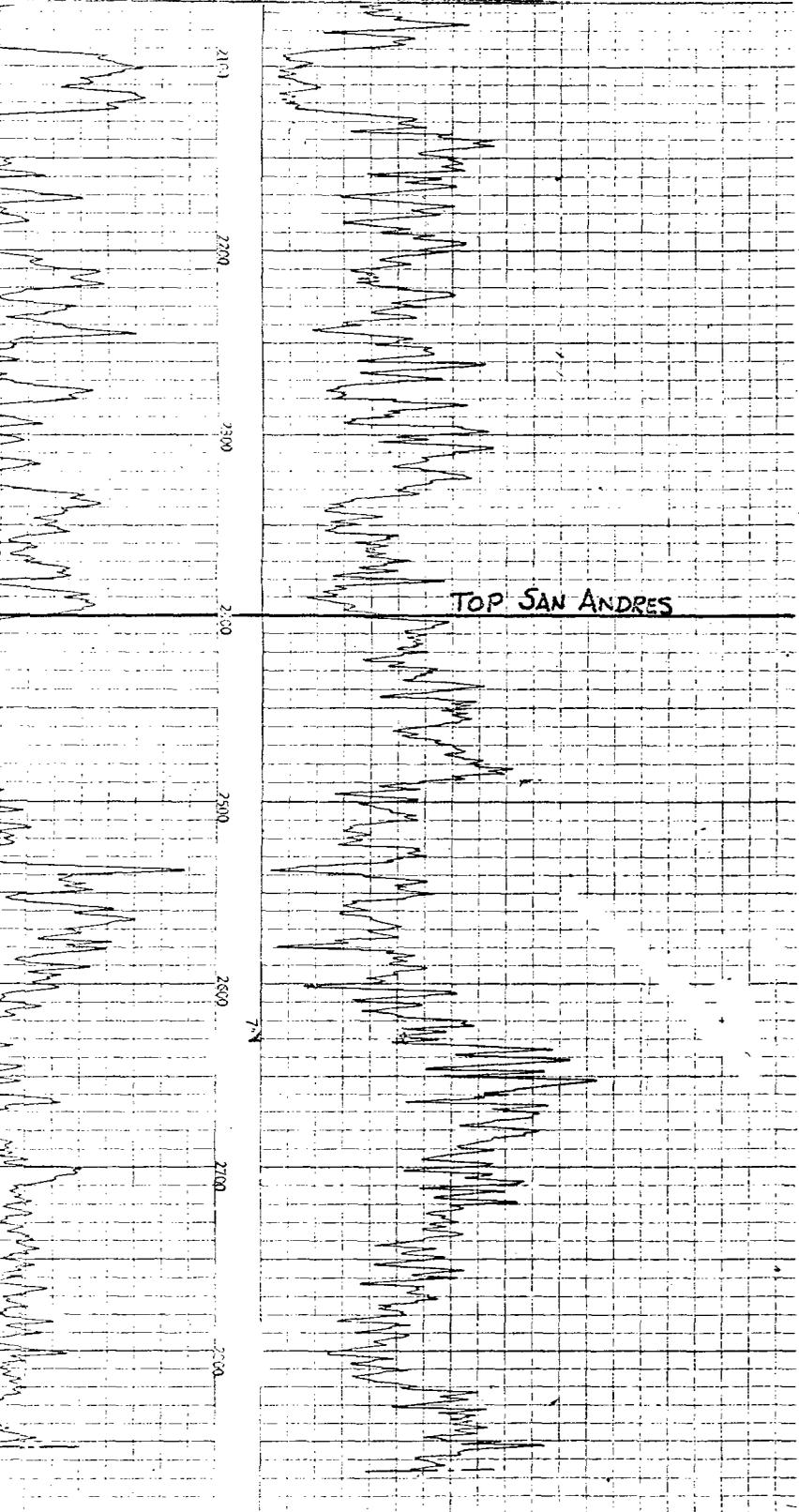
Location of Well

LOG MEAS. FROM DERRICK FLOOR ELEV.
 DRG. MEAS. FROM DERRICK FLOOR ELEV.
 PERM. DATUM GROUND LEVEL IS 2' BELOW D.P. ELEV.

OF LOG NO.	QUANT. RAY	NEUTRON		
1-0-W.	1-0-W.	1-0-W.		
7-12-56	7-12-56	7-12-56		
2550	2550	2550		
2550	2550	2550		
SURF.	SURF.	SURF.		
2852	2852	2852		
2850	2850	2850		
2850	2850	2850		
600H	600H	600H		
8.25	8.25	8.25		
9.1*	9.1*	9.1*		
3 5/8	3 5/8	3 5/8		
3.6	3.6	3.6		
20-40	20-40	20-40		
271	275	275		
KILGALL & EVANS	KILGALL & EVANS	KILGALL & EVANS		

WELL RECORD

NO.	BIT SIZE	CASING	WT.-LB.	FROM WELL RECORD	FROM LOG
1	7	7		SURF. TO 2600	TO 2632
				TO 2850	TO 2867
				TO	TO
				TO	TO
				TO	TO



STATE NO. 92
 COUNTY: ARIZONA
 LOCATION: SEC. 27, T-1J

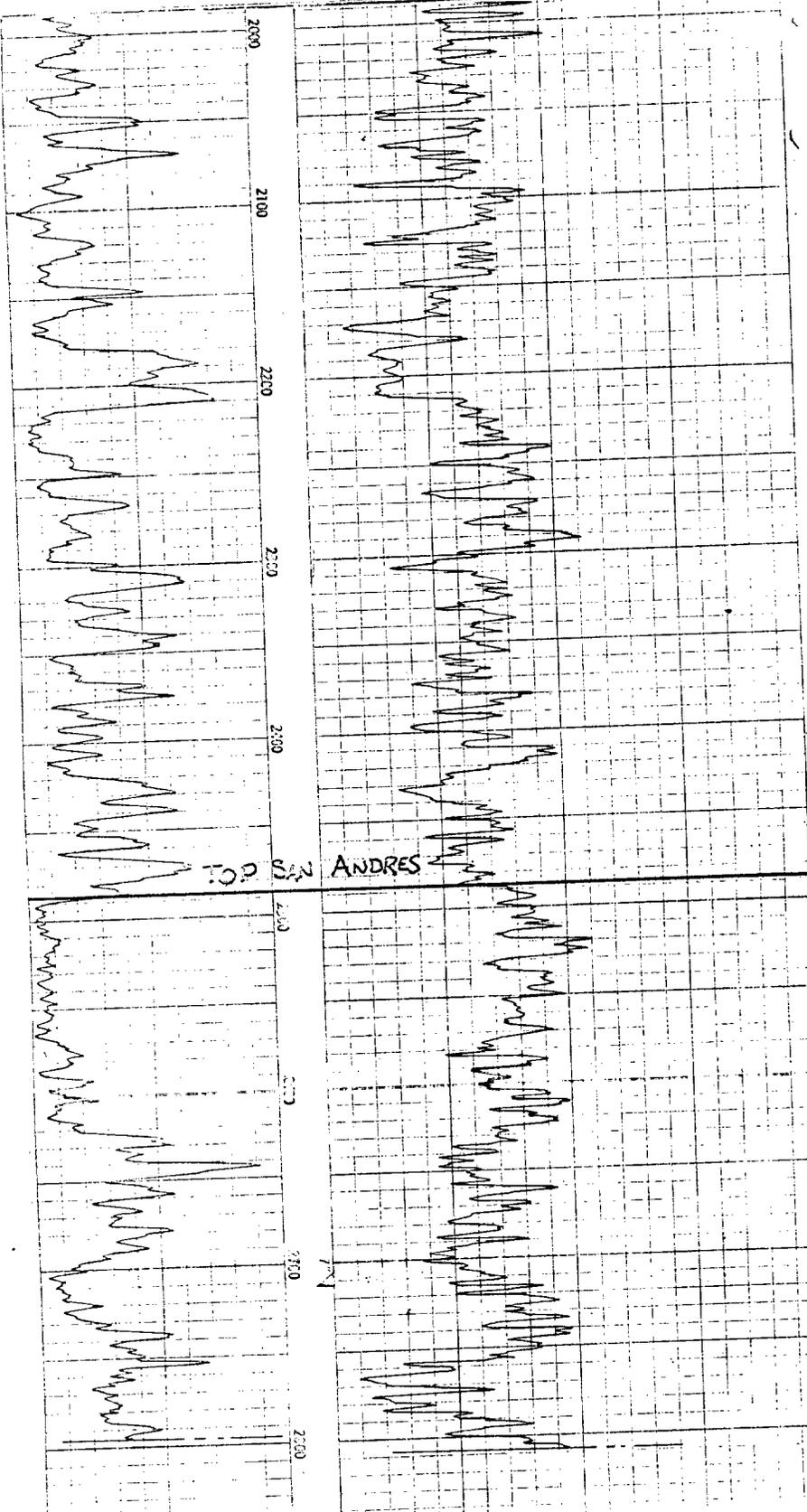
WELL: STATE NO. 92
 FIELD: ARTESIA
 LOCATION: 990' FSL & 1650' FAL OF SEC. 27,
 T-1J, R-2E
 COUNTY: ELLI STATE: N.MEX.
 LOG ZERO: BERRICK FLOOR ELEV. 3569
 DRG. ZERO: BERRICK FLOOR ELEV. 3569
 PERM. DATUM: GROUND LEVEL ELEV. 3566

NO. OF LOG	DATE	TIME	BERRICK FLOOR
1	9-21-56	9:00 AM	
2	9-21-56	9:00 AM	
3	9-21-56	9:00 AM	
4	9-21-56	9:00 AM	
5	9-21-56	9:00 AM	
6	9-21-56	9:00 AM	
7	9-21-56	9:00 AM	
8	9-21-56	9:00 AM	
9	9-21-56	9:00 AM	
10	9-21-56	9:00 AM	

RECORDED BY: [Signature]
 WITNESSED BY: [Signature]

WELL RECORD FROM LOG

UNITS	BIT SIZE	CASING WT.-LB.	FROM WELL RECORD	FROM LOG
100'	8 3/4"	8 5/8"	SURFACE TO 2113	SURFACE TO 2712
200'			2113 TO 2552	2712 TO 2810
300'			2552 TO 2600	2810 TO 2810



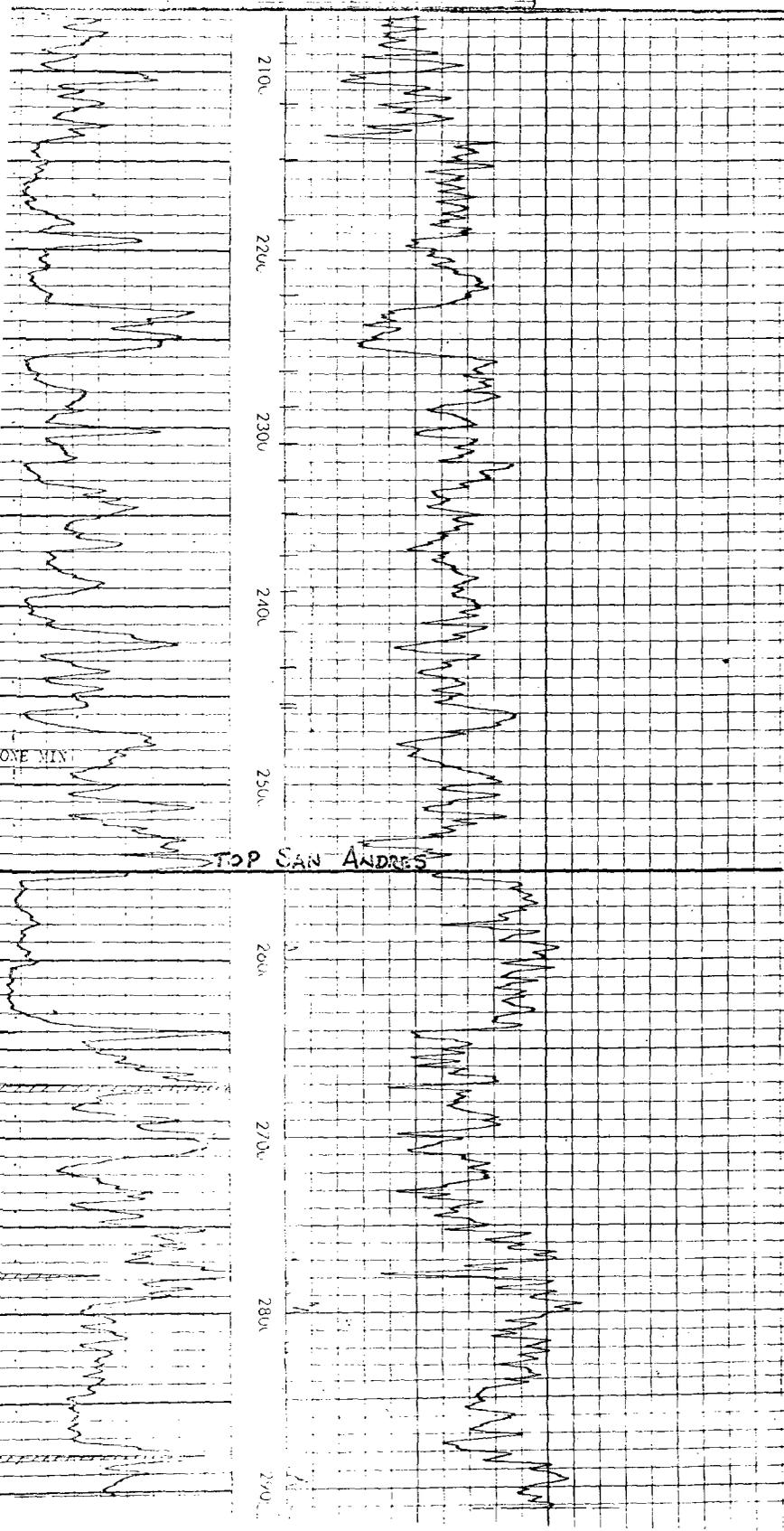
RADIOACTIVITY LOG

URAL GAMMA RADIATION INDUCED GAMMA RADIATION

WELL STATE # 100 FIELD ARTESIA County EDDY State N.M.	COMPANY MALCO-RESLER-YATES	Location
	FILE	Sec. 27
	WELL STATE # 100	Twp. 18
	FIELD Artesia	Rge. 28
	COUNTY Eddy STATE New Mex	
	SEC. 27 TWP. 18 RGE. 28	Elev. D.F. 3571'
SURVEY	K.B. 3572'	
		Grd.

Measured From	Derrick floor	Elevation	3571'
Log Measured From	Derrick floor	Elevation	3571'
Instrument Datum	Derrick floor	Elevation	3571'

Log No.	GAMMA	N. GAMMA		
	ONE	ONE		
Logged	3-15-56	3-15-56		
Depth, Driller	2,412'	2,412'		
Depth, Logged	2,920'	2,920'		
Level of Fluid in Hole	011	011		
Temp.	96 F	96 F	F	F
Iron Source Strength		400mg		
Distance to Center of Counter	in.	19 in.	in.	in.
Depth Meas. Device	29 in	14 in		
Length of Instrument	3 5/8"	3 5/8"		
Exposure Constant	2	2		
Logging Speed Ft. min.	See remarks			
Iron Source Code		Blue		
Check No.	4132	4132		
Recorded by	G. F. Jones			



WELL LOG SHEET

FILE NO. _____

COMPANY INTERNATIONAL - YATES

WELL STATE 647 NO. 207

FIELD ARTESIA

COUNTY EDDY STATE NEW MEXICO

LOCATION: 1980' FSL & 990' FEL

SEC 23 TWP 18-S RGE 28-E

Other Services: F/L MF/L-CALIPER M.O.P.

Permanent Datum GROUND LEVEL Elev. 3538

Log Measured from K. S. 7 Ft. Above Permanent Datum

Drilling Measured from K. S.

Elevations: KB 3545 DF 3543 GL 3538

Date 1/18/66

Run No. _____

Type Log _____

Depth-Driller _____

Depth-Logger _____

Bottom Logged Interval _____

Top Logged Interval _____

Type Fluid in Hole _____

Sp. Gravity _____

Density lb. Gal. _____

Level _____

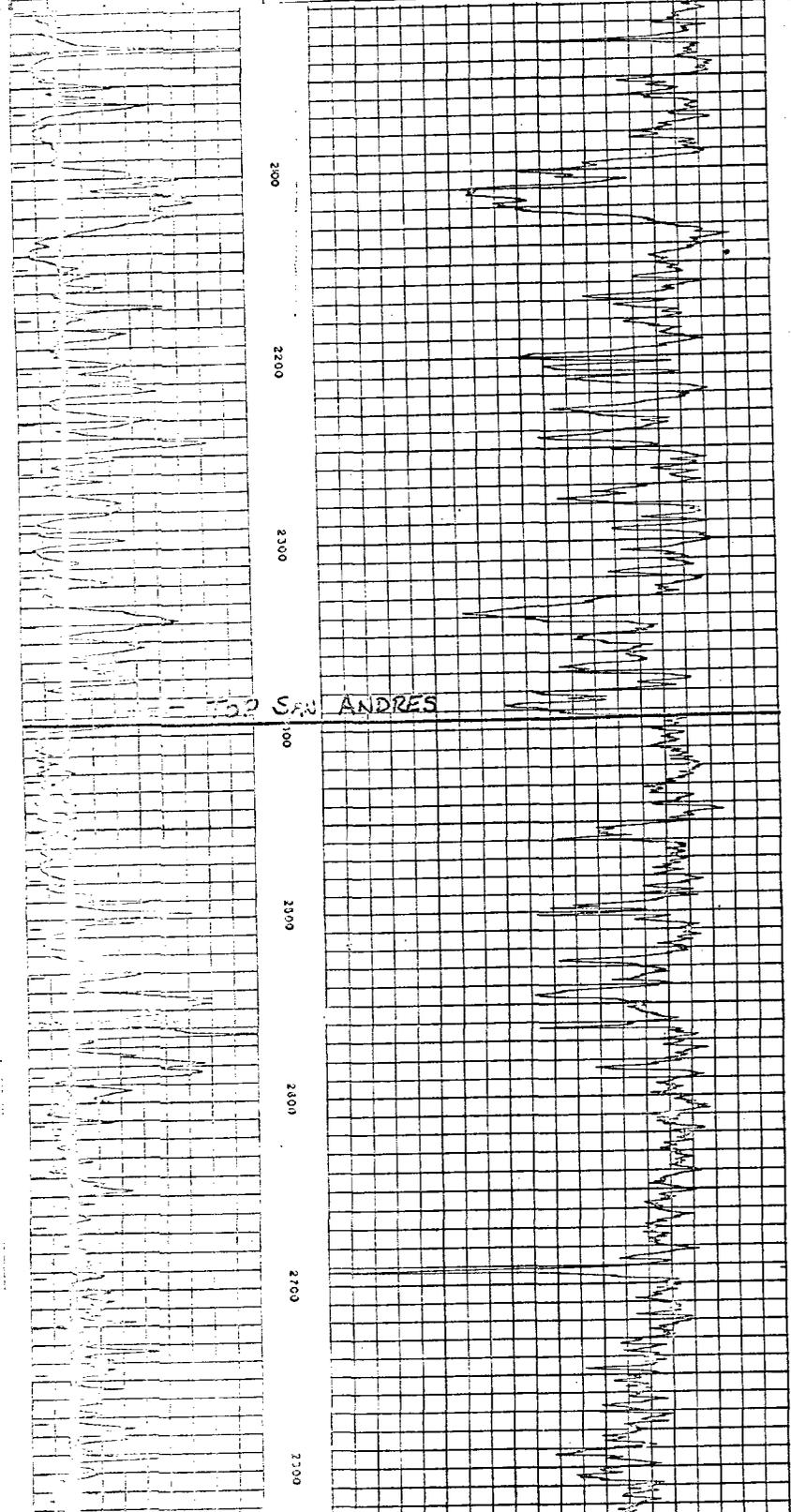
Max. Rec. Temp. Dpt. F _____

Open Rig Time _____

Recorded By _____

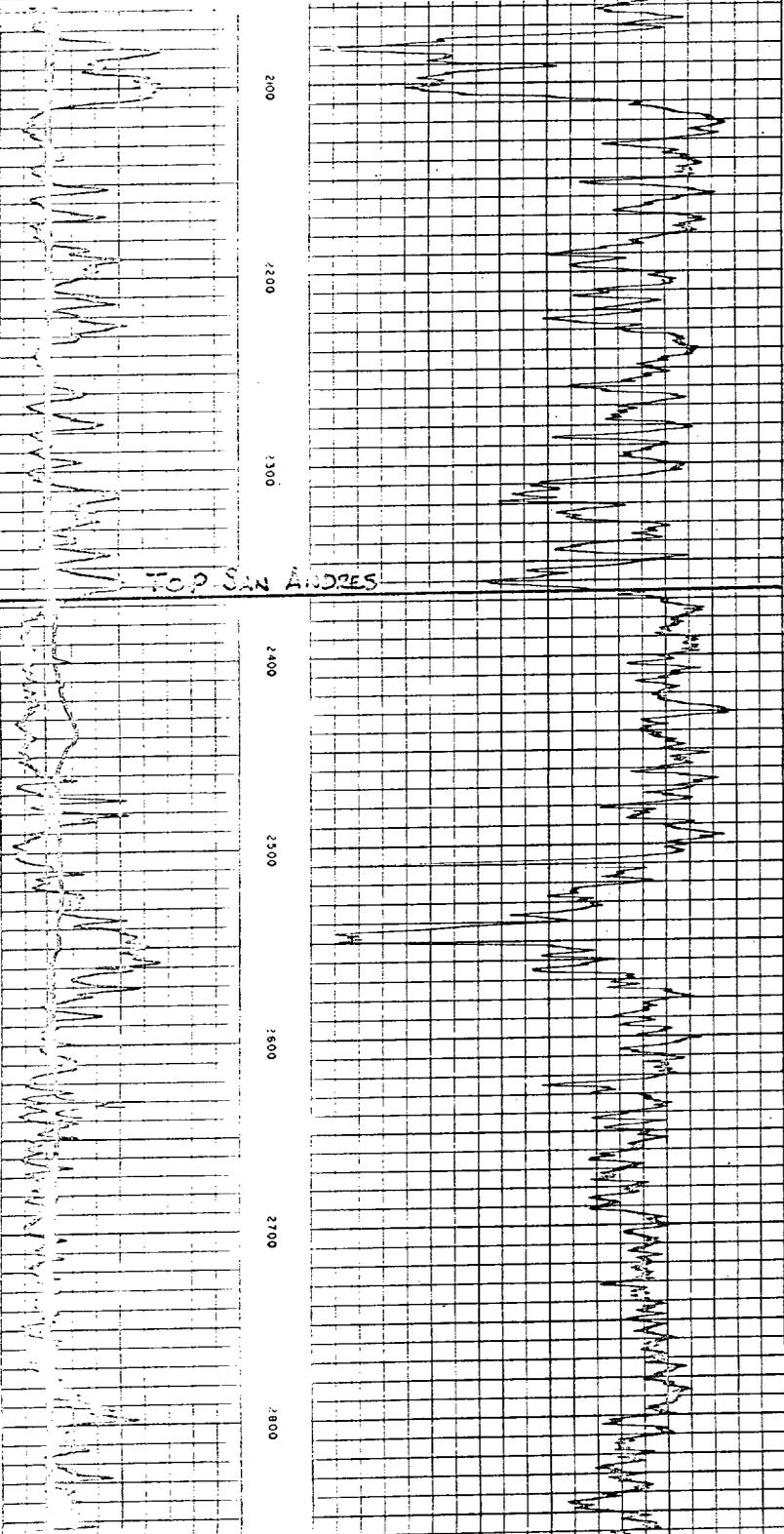
Witnessed By _____

Spore Core Record				Casing Record		
Run No.	Bit	From	To	Size	Wgt.	From To
1	7 7/8"	500	2824	5 5/8"		SURFACE 500



WELLS *W. H. King*

FILE NO.	COMPANY DEPCO, INCORPORATED			
WELL STATE 647 NO. 217				
FIELD ARTESIA				
COUNTY EDDY STATE NEW MEXICO				
LOCATION:	Other Services			
1650' FWL & 330' FWL UNIT E.				
SEC 34 TWP 18-S RGE 28-E				
Permanent Datum GROUND LEVEL Elev. 3532	Elevations KB 3540			
Log Measured from K. B. 8 Ft. Above Permanent Datum	DF. 3539			
Drilling Measured from K. B.	GL. 3532			
Date 11-28-66				
Run No. 108E				
Type Log G/D/C				
Depth Driver 12855				
Depth Logger 12870				
Bottom Logged Interval 12857				
Top Logged Interval 12800				
Type Fluid in Hole WATER				
Salinity Ppm Cl.				
Density lb. Gal.				
Level FULL				
Max. Rec. Temp. Deg. F 129				
Opn. Rig Time 14 HOURS				
Recorded By MAYFIELD				
Witnessed By MR. STRADER				
Run No.	Size	Wgt.	From	To
1 1 1/2" SURE	500	3 5/8"	24	SURE 500
2 1 1/2" SURE	1500			

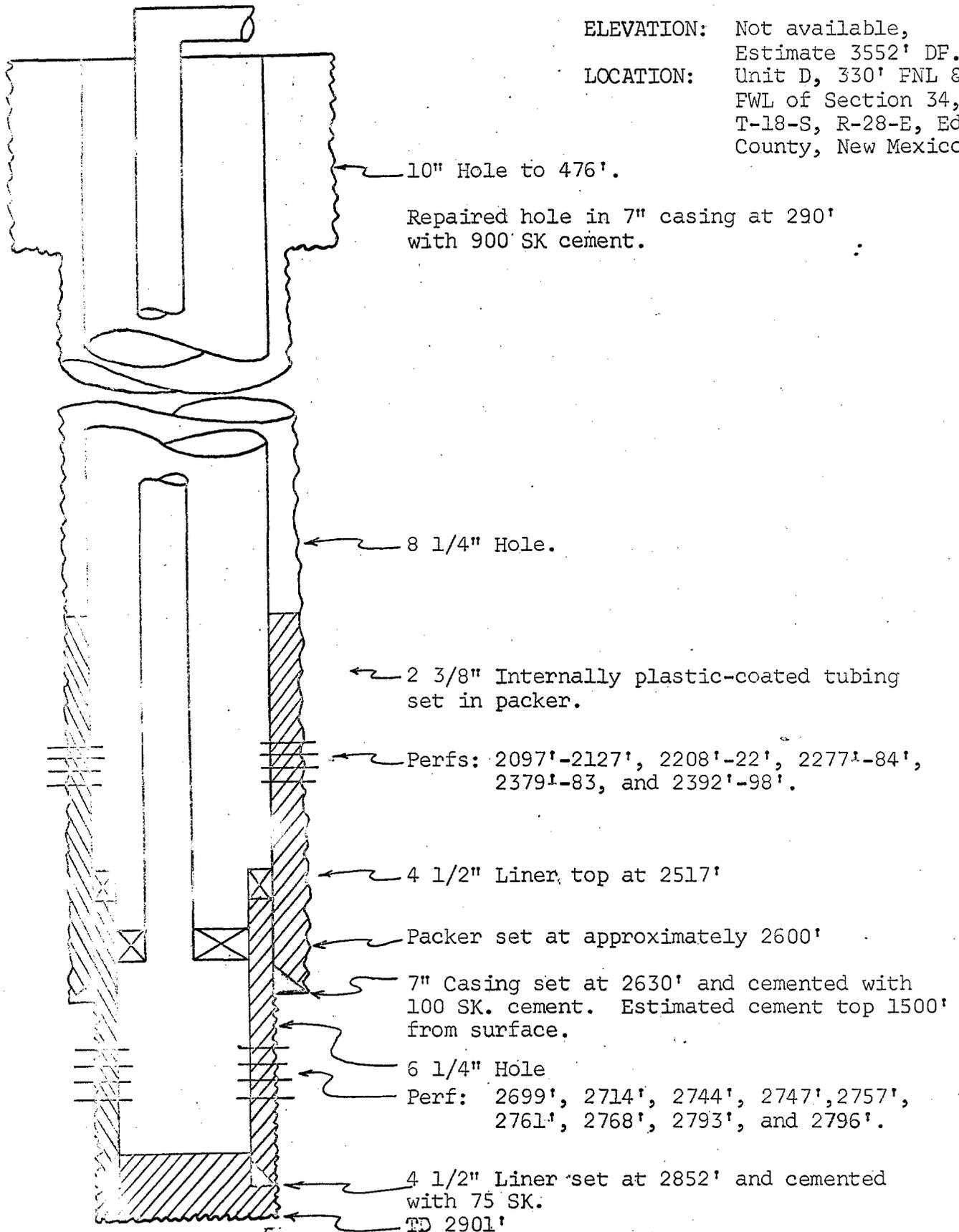


DIAGRAMMATIC SKETCHES

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 90

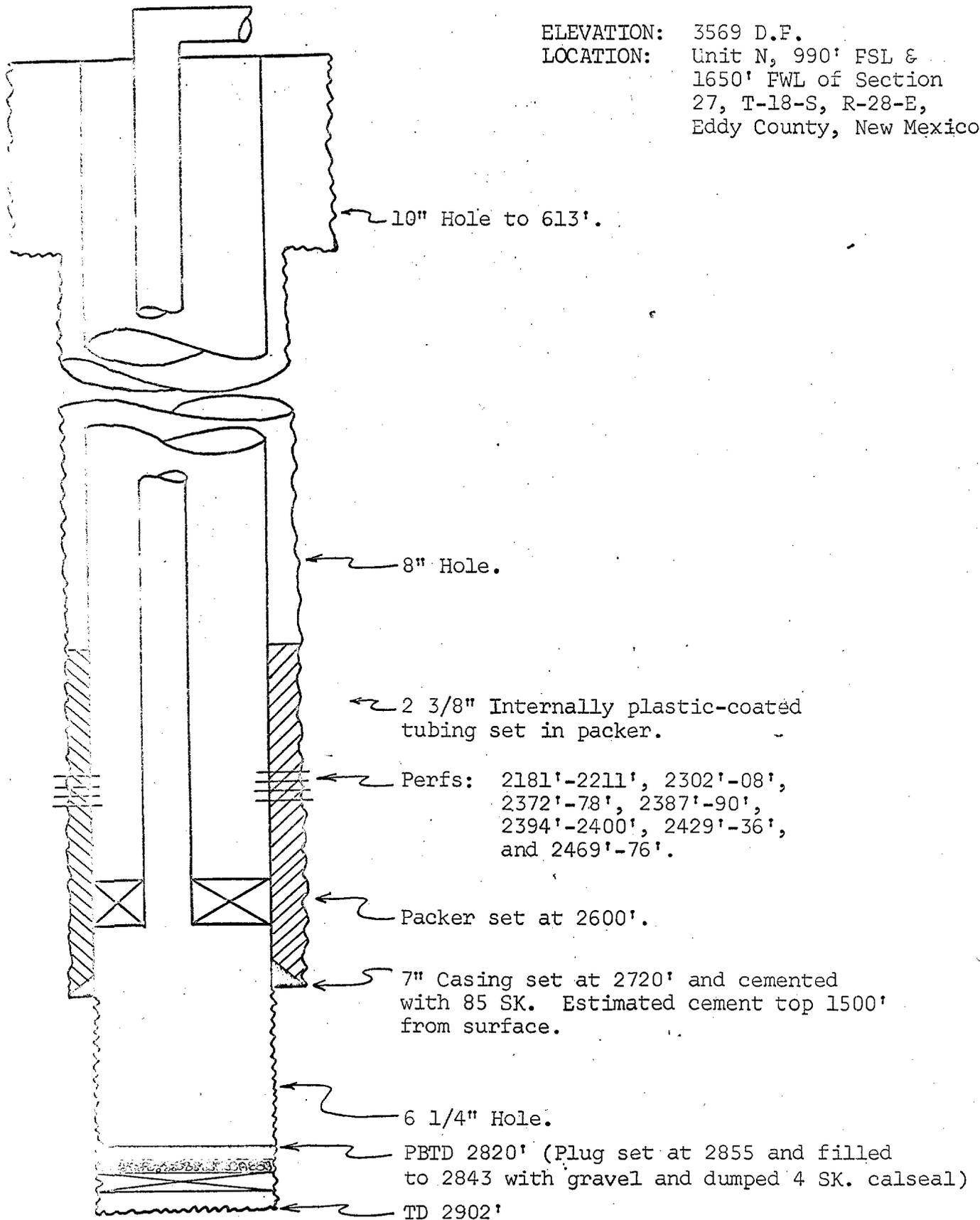
ELEVATION: Not available,
Estimate 3552' DF.
LOCATION: Unit D, 330' FNL &
FWL of Section 34,
T-18-S, R-28-E, Eddy
County, New Mexico



DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 92

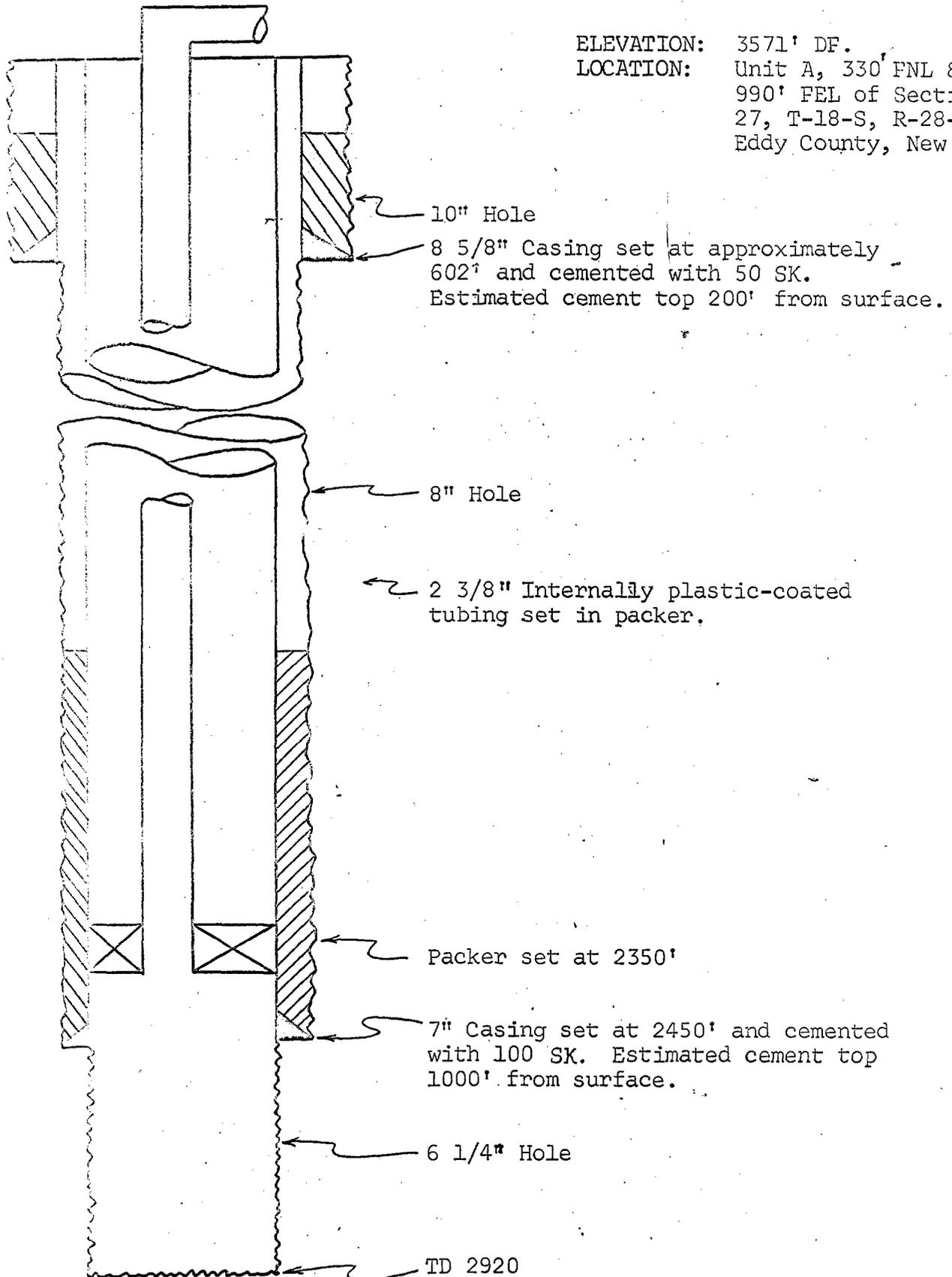
ELEVATION: 3569 D.F.
LOCATION: Unit N, 990' FSL &
1650' FWL of Section
27, T-18-S, R-28-E,
Eddy County, New Mexico.



DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 100

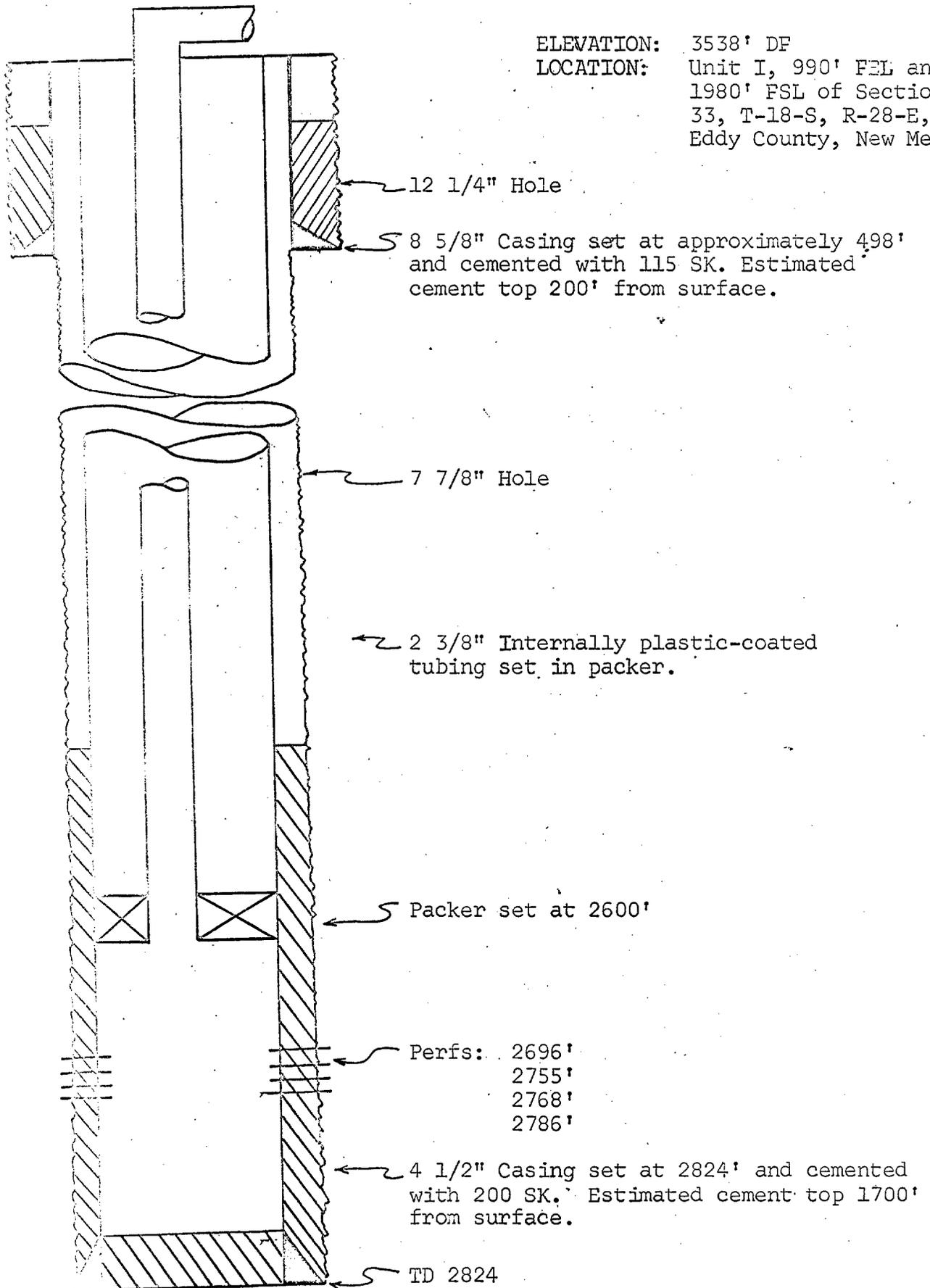
ELEVATION: 3571' DF.
LOCATION: Unit A, 330' FNL &
990' FEL of Section
27, T-18-S, R-28-E,
Eddy County, New Mexico



DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 207

ELEVATION: 3538' DF
LOCATION: Unit I, 990' FEL and
1980' FSL of Section
33, T-18-S, R-28-E,
Eddy County, New Mexico



12 1/4" Hole

8 5/8" Casing set at approximately 498'
and cemented with 115 SK. Estimated
cement top 200' from surface.

7 7/8" Hole

2 3/8" Internally plastic-coated
tubing set in packer.

Packer set at 2600'

Perfs: 2696'
2755'
2768'
2786'

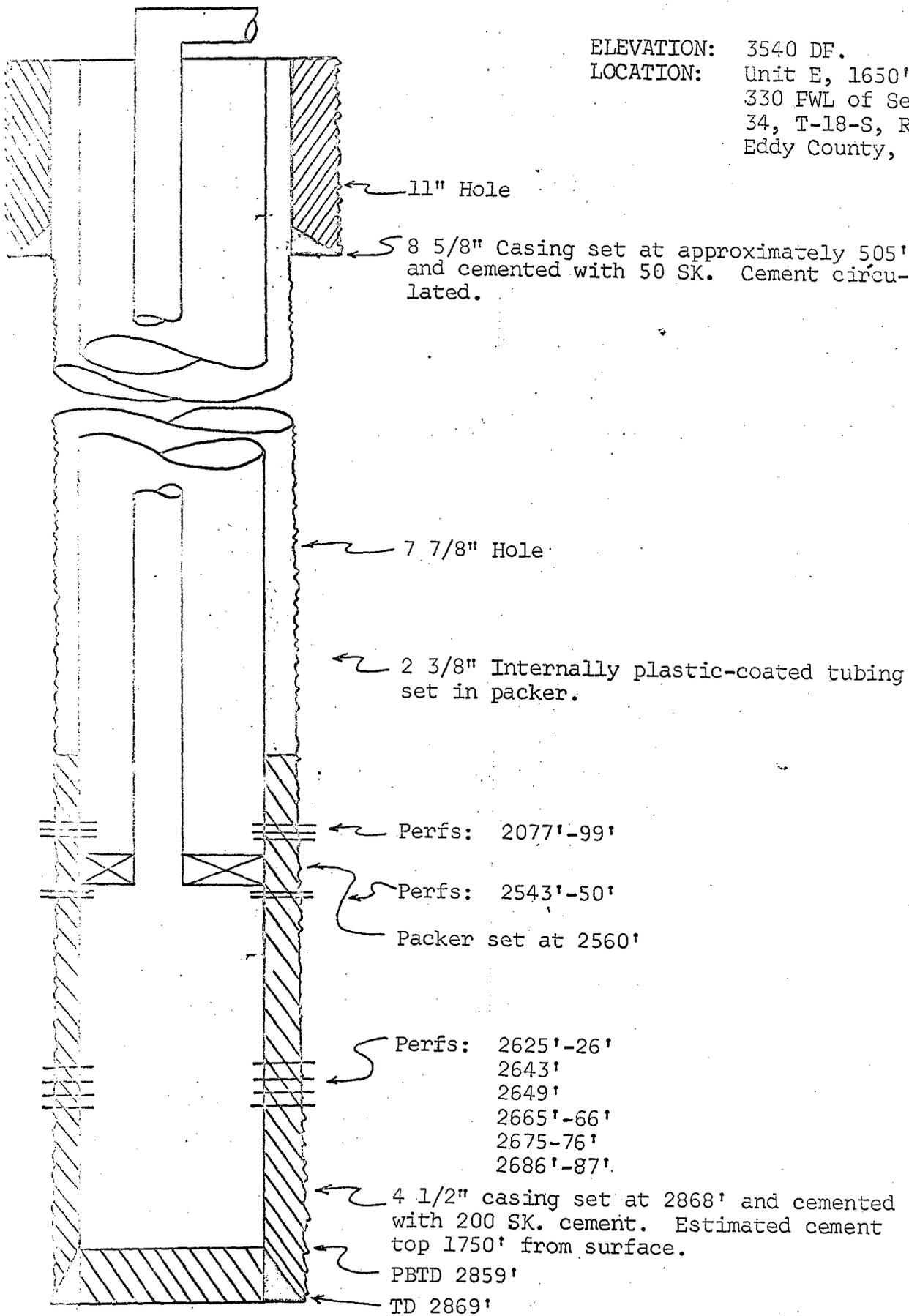
4 1/2" Casing set at 2824' and cemented
with 200 SK. Estimated cement top 1700'
from surface.

TD 2824

DIAGRAMMATIC SKETCH

PROPOSED WELL CONDITIONS
STATE 647 WELL NO. 217

ELEVATION: 3540 DF.
LOCATION: Unit E, 1650' FNL &
330 FWL of Section
34, T-18-S, R-28-E,
Eddy County,



11" Hole

8 5/8" Casing set at approximately 505' and cemented with 50 SK. Cement circulated.

7 7/8" Hole

2 3/8" Internally plastic-coated tubing set in packer.

Perfs: 2077'-99'

Perfs: 2543'-50'

Packer set at 2560'

Perfs: 2625'-26'
2643'
2649'
2665'-66'
2675-76'
2686'-87'

4 1/2" casing set at 2868' and cemented with 200 SK. cement. Estimated cement top 1750' from surface.

PBSD 2859'

TD 2869'