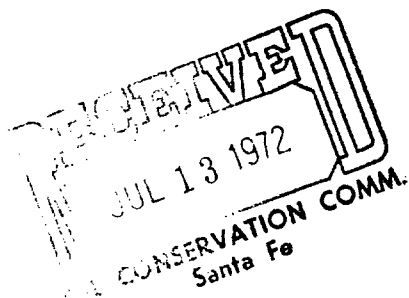


DEPCO, Inc.

Exploration & Production



800 Central
ODESSA, TEXAS 79760



July 11, 1972

W-374
July 11, 1972

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

Subject: Administrative Approval
to Inject Water into Artesia
Unit Well No. 8
Field: Artesia
County and State: Eddy, New Mexico

Gentlemen:

DEPCO, Inc. requests administrative approval to inject water into their Artesia Unit well No. 8 located 330' FNL and 990' FEL (Unit A), Section 35, T. 17S., R.28E., Eddy County, New Mexico. Well No. 8 is presently a unit producing well.

The Artesia Unit Waterflood was initially approved as the Highway Waterflood operated by International Oil and Gas Corporation by Order No. R-2876 dated March 5, 1965, by injection of water into two wells located in Sections 25 and 36, Township 17 South, Range 28 East. This waterflood was expanded and renamed the Artesia Unit, by Order No. R-3311 dated September 6, 1967, and operated by DEPCO, Inc. as successor to International Oil and Gas Corporation.

Administrative Approval to Inject Water
Into Artesia Unit Well No. 8
Page 2
July 11, 1972

Attached as set forth in Rule 701-B are the following exhibits:

1. Exhibit 1 -- "A plat showing the location of the proposed injection wells and the location of all other wells within a radius of two miles"
2. Exhibit 2 -- Log is attached for Artesia Unit Well No. 8.
3. Exhibit 3 -- Diagrammatic Sketch for this proposed injector.
4. Exhibit 4 -- Form C-116 showing response at the proposed injector or at an offset well.

Injection will be into two intervals at the base of the Grayburg formation which are locally named the Metex and Premier Sands at an approximate depth range 2150 to 2250 feet. Approximately 500 BWPD will be injected into this proposed injector. Water for this project is purchased from Double Eagle Corporation.

Very truly yours,



Welton C. Smith
District Engineer

WCS:vp

Attachments

cc: NMOCC - Artesia
Shenandoah Oil Corporation (without attachments)
Penroc Oil Company (without attachments)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

7-11-65
Revised 1-1-65

Operator DEPCO, Inc.		Pool Artesia		County Eddy										
Address 800 Central, Odessa, Texas 79761		TYPE OF TEST - (X)		Completion ☐ Special ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
<u>Artesia Unit</u> Offset to well No. 8	5	P	26	17	28	12-65	P	--	--	24	0	3	2.3	767
						8-66	P	--	--	24	0	23	1.06	46
						3-1-72	P	--	--	24	45	2	0.10	50
	8	A	35	17	28	12-65	P	--	--	24	0	3	2.3	767
						12-66	P	--	--	24	0	47	2.3	49
						3-2-72	P	--	--	24	44	2	0.03	15
	9	B	35	17	28	10-67	P	--	--	24	0	1	0.51	510
						6-12-68	P	--	--	24	112	66	TSTM	---
						6-6-72	P	--	--	24	1	4	TSTM	---
	15	H	35	17	28	7-66	P	--	--	24	0	1	4.26	4260
						1-25-71	P	--	--	24	0	11	1.09	99
						6-8-72	P	--	--	24	5	7	TSTM	--

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Welton C. Smith
(Signature)

Welton C. Smith

(Signature)

District Engineer

(Title)

July 11, 1972

(Date)

DIAGRAMMATIC SKETCH

Proposed Well Conditions

Artesia Unit Well No. 8

Elevation 3677' K B

Exhibit 3

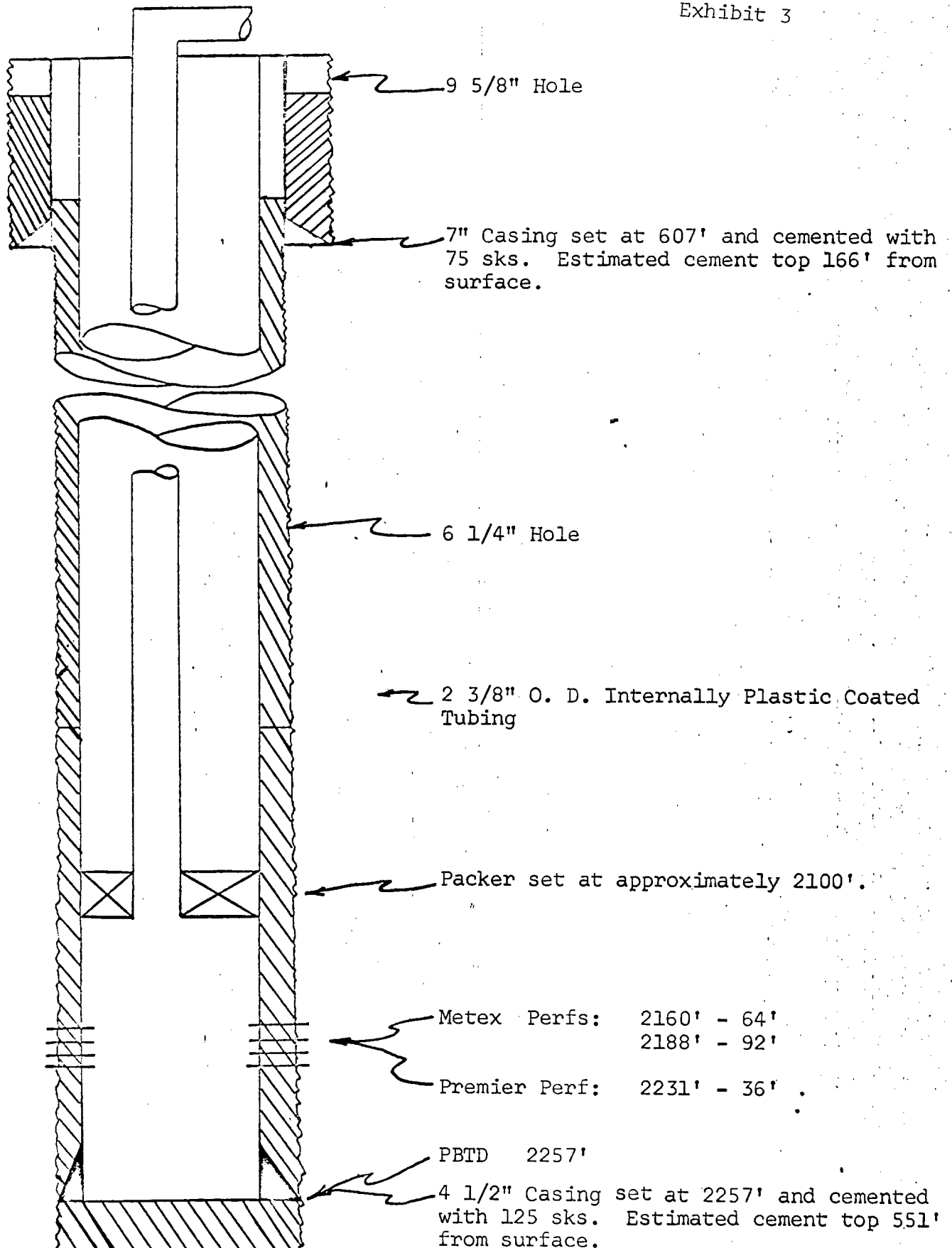


Exhibit 3

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

ILLEGIBLE

COMPANY WESTERN & YATES

WELL
ARTESIA UNIT WELL No. 8FIELD
ARTESIA

COUNTY EDDY STATE NEW MEXICO

LOCATION: 550' FRL & 990' FEL

SEC 32 TWP 17.1 RCE 28-E

Permanent Datum	WINDY LEVEL	Elev.	3670
Assigned from	J. V. D. B.		
then measured from	1917 NAVE BUSHING		

Date	8-22-51	8-22-51
Log No.	2255	ONE
Log Location	W. A. WAY	REUTRON
Log-Driller	2255	2252
Log-Logger	2255	2253
Log-Logged Interval	2240	2242
Log-Logged Interval	5 FEET	SURFACE
Log-Filed in Hole	OIL	OIL
Quantity Pumped		
2255 / lb. Gal.		
Log	FULL	FULL
Log Temp. Deg. F.		
Log Time	2 HOURS	2 HOURS
Log By	COPELAND	COPELAND
Log By	COPELAND	MR. WERSON

Core Hole Record

Casina Record

DIAGRAMMATIC SKETCH

Proposed Well Conditions

Artesia Unit Well No. 8

Elevation 3677' K B

Exhibit 3

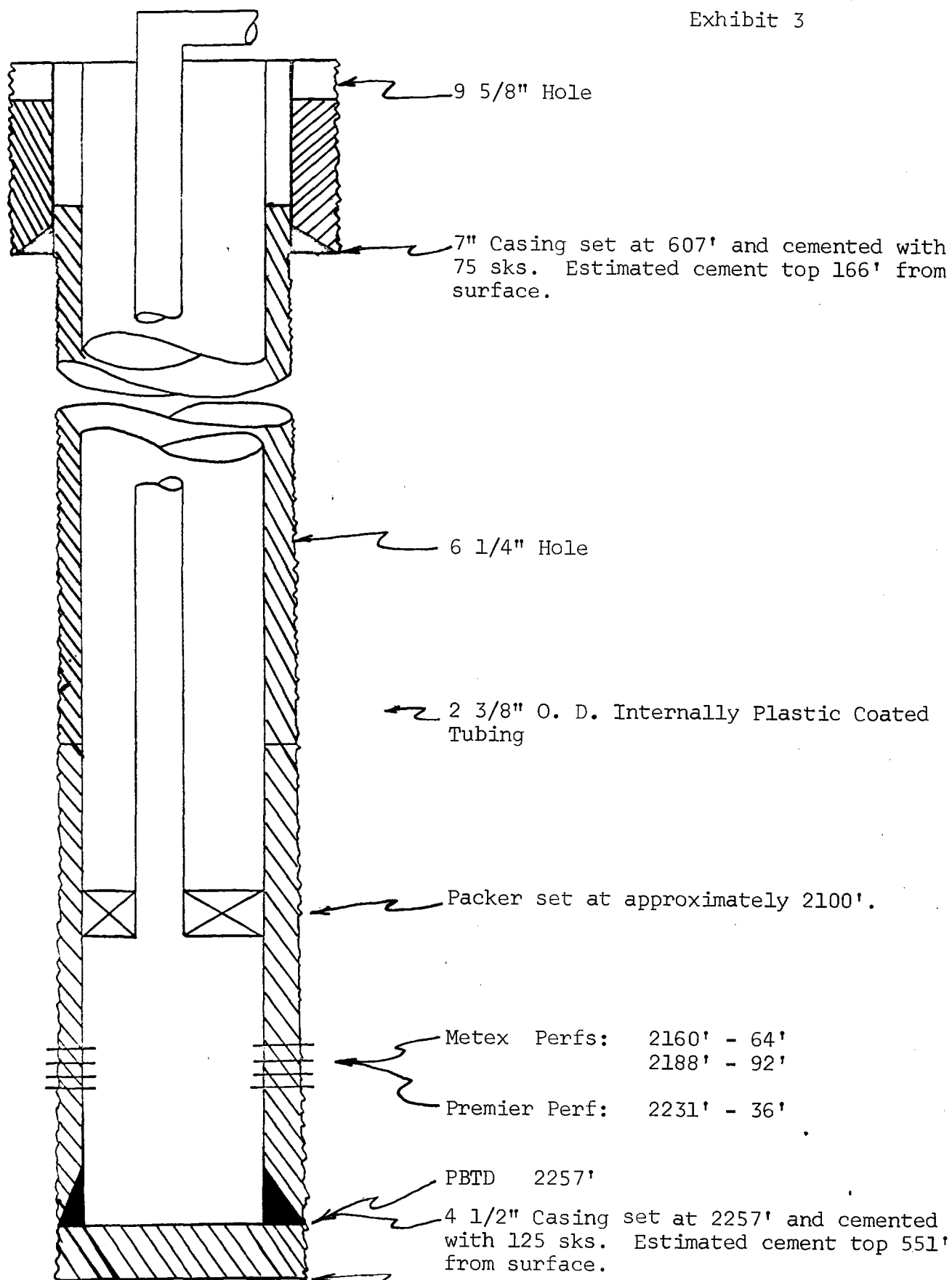


Exhibit 3

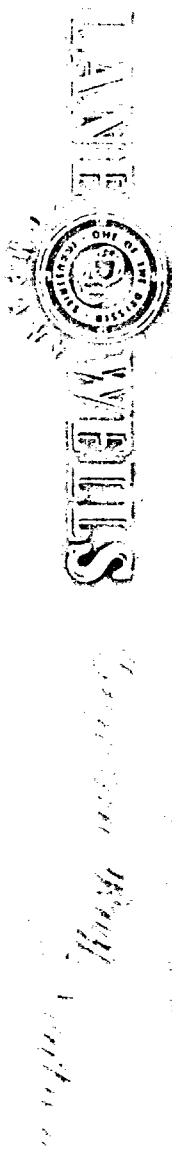


Exhibit 2

FILE NO.	COMPANY <u>WESTERN & YATES</u>		
	WELL <u>ARTESIA UNIT WELL No. 8</u>		
	FIELD <u>ARTESIA</u>		
	COUNTY <u>EDDY</u>	STATE <u>NEW MEXICO</u>	
	LOCATION: <u>3301 FNL & 9901 FEL</u>		Other Services
	SEC <u>35</u>	TWP <u>17-N</u>	RGE <u>28-E</u>
Permanent Datum	GROUND LEVEL		Elev. <u>3670</u>
Log Measured from	<u>T. K. D. B. 7</u> Ft. Above Permanent Datum		KB <u>3677</u>
Drilling Measured from	<u>TOP KELLY DRIVE BUSHING</u>		DF <u>3670</u>
Date	<u>8-22-61</u>	<u>8-22-61</u>	
Run No.	<u>ONE</u>	<u>ONE</u>	
Type Log	<u>GAMMA RAY</u>	<u>N-NEUTRON</u>	
Depth-Driller	<u>2255</u>	<u>2255</u>	
Depth-Logger	<u>2255</u>	<u>2255</u>	
Bottom Logged Interval	<u>2240</u>	<u>2252</u>	
Top Logged Interval	<u>SURFACE</u>	<u>SURFACE</u>	
Type Fluid in Hole	<u>OIL</u>	<u>OIL</u>	
Solubility Ppm Cl.			
Density Lb./Gal.			
Level	<u>FULL</u>	<u>FULL</u>	
Max. Rec. Temp. Deg. F			
Core Rec. Time	<u>2 HOURS</u>	<u>2 HOURS</u>	
Recorded By	<u>COPELAND</u>	<u>COPELAND</u>	
Processed By	<u>W. J. MERSHON</u>	<u>W. J. MERSHON</u>	
Bore Hole Record			
No.	Bit	From	To
1	<u>2 5/8"</u>	<u>SURFACE</u>	<u>925</u>
2	<u>6 1/8"</u>	<u>925</u>	<u>2267</u>
3		<u>7"</u>	<u>17</u>
4		<u>4 1/2"</u>	<u>11.6</u>
5		<u>SURF.</u>	<u>601.5</u>
6		<u>2257</u>	
Casing Record			
No.	Size	Wgt.	From
1	<u>7"</u>	<u>17</u>	<u>SURF.</u>
2	<u>4 1/2"</u>	<u>11.6</u>	<u>SURF.</u>
3			<u>2257</u>

Gamma Ray				Equipment Data				Neutron			
Run No.	<u>ONE</u>			Run No.	<u>ONE</u>			Run No.	<u>ONE</u>		
Tool Model No.	<u>402</u>			Log Type	<u>N-NEUTRON</u>			Tool Model No.	<u>402</u>		
Diam.	<u>3 5/8"</u>			Tool Model No.	<u>402</u>			Diam.	<u>3 5/8"</u>		
Detect. Model No.	<u>D4-1</u>			Detect. Model No.	<u>D6N1</u>			Detect. Model No.	<u>D6N1</u>		
Type	<u>SCINT.</u>			Type	<u>SCINT.</u>			Type	<u>SCINT.</u>		
Length	<u>4"</u>			Length	<u>4"</u>			Length	<u>4"</u>		
Dist. to N. Source	<u>13.0"</u>			Source Model No.	<u>S10A3</u>			Source Model No.	<u>S10A3</u>		
General				Serial No.	<u>3314</u>			Serial No.	<u>3314</u>		
Hoist Truck No.	<u>P-193</u>			Spacing	<u>13.5"</u>			Spacing	<u>13.5"</u>		
Inst. Truck No.	<u>P-193</u>			Type	<u>RA BE</u>			Type	<u>RA BE</u>		
Tool Serial No.				Strength	<u>300 MC.</u>			Strength	<u>300 MC.</u>		
Logging Data											
General				Gamma Ray				Neutron			
Run No.	Depths	Speed	T.C.	Sens.	Zero	G.R. Units	T.C.	Sens.	Zero	N. Units	
	From	Fr./Min.	Sec.	Settings	Div. L or R	Per Log Div.	Sec.	Settings	Div. L or R	Per Log Div.	
1	2252	1600	30	1.5	523-X1	0	5 RU/CD	1.5	104-X1	0	200 EU/CD
1	1200	800	30	1.5	523-X1	0	5 RU/CD	1.5	104-X1	0	200 EU/CD
1	2252	SURF.	60	0.9	523-X1	0	5 RU/CD	0.9	104-X1	0	200 EU/CD
Remarks:											
Reference Literature:											

