

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION
P. O. BOX 2
SANTA FE, NEW MEXICO

BEFORE EXAMINER Snyder
OIL CONSERVATION DIVISION
EXHIBIT NO. 1
CASE NO. 10772
SUBMITTED BY: SNYDER RANCHES
HEARING DATE: NOVEMBER 4, 1993

Form C-10
Revised 10/88

Type of Lease
State ☐ Fee ☐
3. State Oil & Gas Lease No. _____

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☐ OTHER: <u>Disposal Well</u>	7. Well Agreement Name <u>Barber</u>
2. Name of Operator <u>Barber Oil, Inc.</u>	8. Farm or Lease Name <u>Stovall-Wood Fee</u>
3. Address of Operator <u>P. O. Box 1658 Carlsbad, NM 88221-1658</u>	9. Well No. <u>Barber Disposal</u>
4. Location of Well UNIT LETTER <u>C</u> <u>880</u> FEET FROM THE <u>North</u> LINE AND <u>1580</u> FEET FROM THE <u>West</u> LINE, SECTION <u>20</u> TOWNSHIP <u>20S</u> RANGE <u>30E</u> NMPM.	10. Field and Pool, or Wildcat <u>Barber</u>
15. Elevation (Show whether DF, RT, GR, etc.)	12. County <u>Eddy</u>

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☐	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1503.

JUNE, 1990 - This disposal well drilled in approximately 1943 to a depth of 227' to a "cut out section" of the Upper Rustler formation. The bottom of the this formation is approximately 415'. Ran 195' of 8-5/8" casing and set with 25 sac cement. The injection interval was from 195' - 207' or 12' total open hole. Surface water is at approx. 50' and the top of the nearest oil or gas zone is 1420'. In June of 1990 we began experiencing trouble with the well back flowing very slight amounts of water (less than 10 bbls) and the wells rate of intake began to decline. We ran a special hand made tool down the well bore and casing and cleaned out what appeared to be a combination of asphaltines, iron sulfide and parafin. We then pumped in 1,000 gallons of acid and flushed with 250 bbls of fresh water. The well improved for a few days and then the problem reappeared. We then cleaned the well bore out to a depth of 115' and ran 128' of plastic schedule 80 6" pipe down the well until we were inside good casing. The last 13' of pipe had to be forced into the casing as the existing pipe was coated with "gunk". We then ran our tool back down the new casing and into the old casing and cleaned out the hole leaving a seal of gunk between the two pipes. The well has been working perfectly since this procedure. We believe the procedure accomplished two things. First, we successfully shut off all surface water that was previously dumping into the rustler formation. Secondly, we replaced what was probably several joints of badley corroded pipe at the top of the well with new pipe that should last longer than steel pipe.

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

SIGNED Michael D. Baird TITLE President DATE 7/3/90

APPROVED BY For Record Only TITLE _____

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OPERATOR

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. 10772
SUBMITTED BY: SNYDER RANCHES
HEARING DATE: NOVEMBER 4, 1993

VATION DIVISION
BOX 2088
NEW MEXICO 87501

RECEIVED

APR 20 1992

O. C. D.

Form C-10
Revised**COPY**

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

OIL ☐ GAS ☐ OTHER ☒ Disposal Well
Name of Operator
Barber Oil, Inc.
Address of Operator
P. O. Box 1658 Carlsbad, NM 88221-1658
Location of Well
UNIT LETTER C 880 FEET FROM THE North LINE AND 1580 FEET FROM
THE West LINE, SECTION 20 TOWNSHIP 20S RANGE 30E NMPM.

3a. Indicate Type of Lease
State ☐ Fee
3. State Oil & Gas Lease No.

7. Unit Agreement Name

Barber

8. Farm or Lease Name

Stovall-Wood Fee

9. Well No.

Barber Disposal

10. Field and Pool, or Wildcat

Barber

15. Elevation (Show whether DF, RT, GR, etc.)

12. County

Eddy

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒
TEMPORARILY ABANDON ☐
CULL OR ALTER CASING ☒

PLUG AND ABANDON ☐
CHANGE PLANS ☐

OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER ☐

ALTERING CASING
PLUG AND ABANDONMENT

1. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Began work on February 18, 1991. OCD requested removal of 6" PVC pipe. Removed pipe and well wall collapsed. Called Star Tool, T.R. Well Service, Bull Rogers, Halliburton and others. Rigged up drill collars and drilled to 244' with 7-5/8 bit and set cement plug. Next day tagged plug and pulled out. Pumped five cement plugs. Tagged cement at 57'. Set another plug and pulled out. Tagged cement at 40'. Pumped cement to surface. Rigged up Star Tool to drill plug. Reached 104'. Circulated hole. Tried to run 7" casing inside old 8-5/8 and cemented well bore. Casing stuck. Pulled out and circulated with 3" tubing and set another cement plug. Started drilling and lost circulation. Pumped 200 sack of class C cement, waited and drilled out. Lost circulation. Pumped another plug and waited. Started drilling and got circulation. Ran 7" casing inside old 8-5/8" and cemented well bore. 26# 7" set 114' and circulated cement to surface. Drilled to 255' and lost circulation, most likely now below old 8-5/8 and into the Rustler formation. Ran 114' of 5 1/2" 17# N-80 LT&C casing and set on 5 1/2" X 7" packer and filled annulus with packer fluid. Rigged up well head and injection lines. Put back on injection.

Work finished on about 3/7/91 at a cost of approximately \$90,000.

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

SIGNED

TITLE

President

DATE

3/31/91

of the upper 725 feet of this core was used as a standard of reference for many of the stratigraphic units as they were mapped in the field. The core log is therefore reproduced below with minor modifications and shown graphically in figure 3.

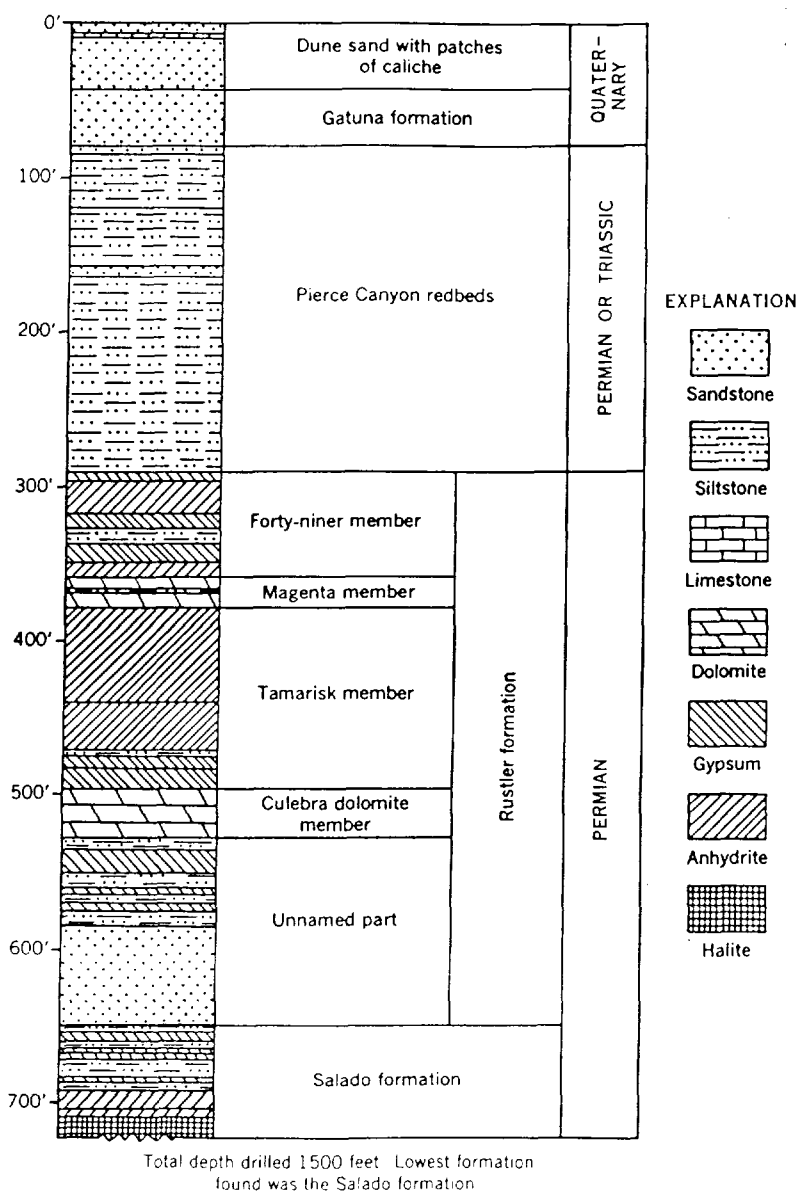
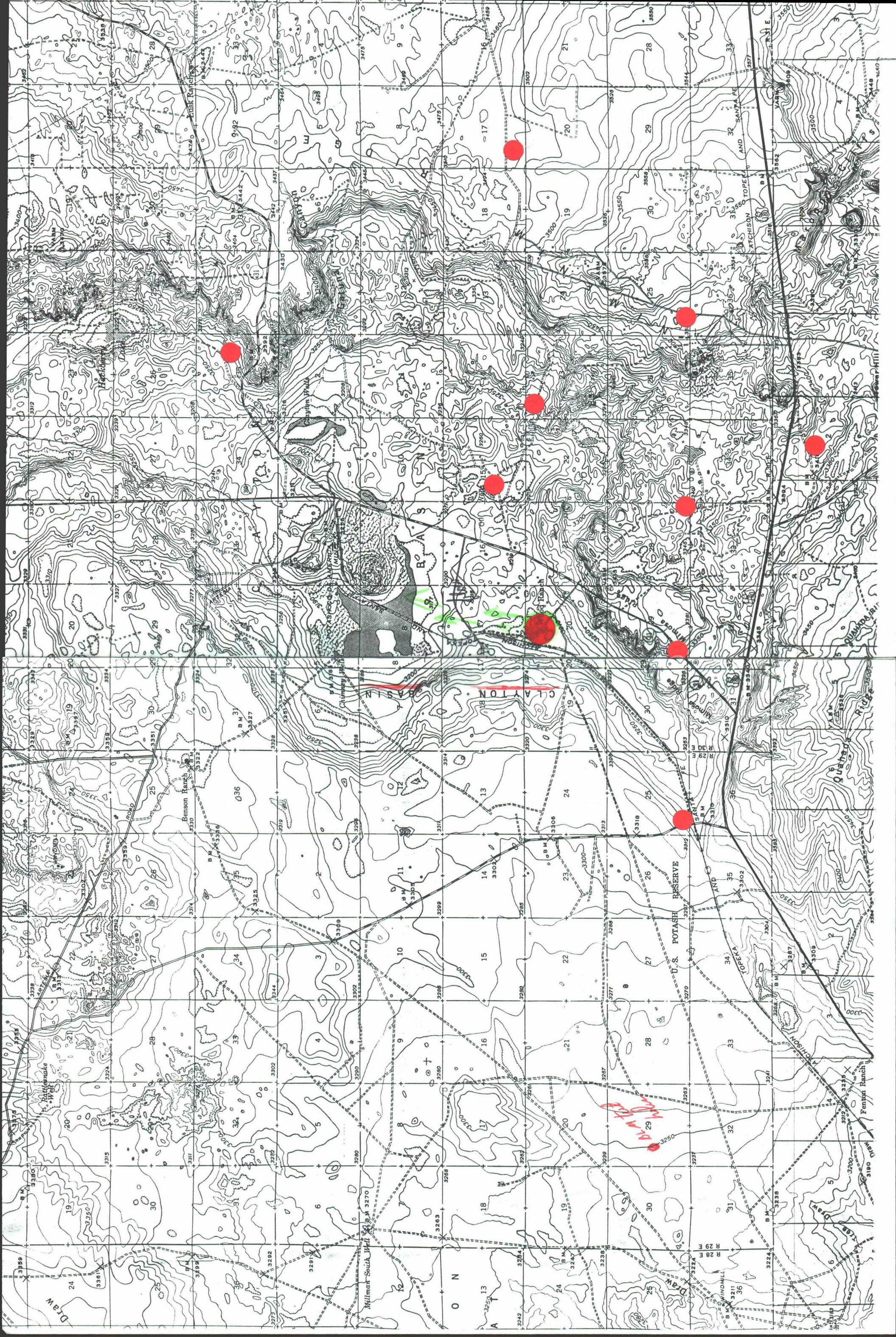


FIGURE 3.—Lithologic log of core from AEC drill hole 1, sec. 34, T. 23 S., R. 30 E.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 3
CASE NO. 10772
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HEARING DATE: NOVEMBER 4, 1993



Spidee Ranches
Exhibit No. 4?

11/4/93

Case 10772

TABLE 1. RECORDS OF WELLS IN EDDY COUNTY, NEW MEXICO. (Continued)

LOCATION NUMBER	OWNER OR NAME	DATE COM- PLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
20.28.36.140	Dinwitty	-	Scanlon draw	3,210	-	8	Redbeds, gypsum (?)	Rustler (?)
20.29.3.433	-	-	Shallow depression	3,300	-	6	do.	Dockum or Rustler
20.30.3.223	"Clayton Wells"	-	Clayton basin	3,175	-	-	Sand and silt	Quaternary
3.424	do.	-	do.	3,185	-	6 (?)	do.	do.
5.310	"Chimney Well"	-	do.	3,184	-	-	do.	do.
16.420	-	-	do.	3,220	-	6	Redbeds (?)	Dockum (?)
20.120	Wood Ranch	-	do.	3,210	90	6	do.	do.
20.130	do.	-	do.	3,210	60	7	do.	do.
33.440	-	-	Rolling Williams	3,380	240+	9	do.	do.
20.31.13.440	-	-	sink	3,450	-	-	do.	do.
15.130	-	-	do.	3,450	70 (?)	6	do.	do.
16.240	-	-	do.	3,460	110+	6	do.	do.
21.21.7.440	Armstrong	-	-	4,760	1,300	-	-	-
36.213	Frank McWilliams	1941	Draw	4,550	962	6	Limestone	San Andres (?)

See explanation at beginning of table.

NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

GROUND WATER

EDDY COUNTY

WATER LEVEL						
LOCATION NUMBER	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
20.28.36.140	19.1	Dec. 27, 1948	-	W	S	
20.29.3.433	91.9	Dec. 13, 1948	-	W	S	See analysis, Table 3.
20.30.3.223	6.0	Dec. 23, 1948	-	W	S	do.
3.424	8.5	do.	-	W	S	do.
5.310	3.5	do.	-	W	S	
16.420	29.9	May 1, 1950	-	W	S	See analysis, Table 3.
20.120	29.3	Dec. 22, 1948	5 E.	W	D	Depth to water measured while pumping.
20.130	45.3	do.	-	W	D	do. See analysis, Table 3.
33.440	203.8	Dec. 27, 1948	-	W	S	See analysis, Table 3.
20.31.13.440	45	Dec. 22, 1948	4 E.	W	S	do.
15.130	63.1	do.	-	W	S	
16.240	61.2	do.	1 E.	W	S	Depth to water measured while pump- ing. See analysis, Table 3.
21.21.7.440	1,100	-	-	W	D & S	
36.213	942	-	-	W	S	Driller: T. Hillyer.

See explanation at beginning of table.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 5
CASE NO. 10772
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HEARING DATE: NOVEMBER 4, 1993

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 6
CASE NO. 10772
SUBMITTED BY: SNYDER RANCHES
HEARING DATE: NOVEMBER 4, 1993

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NEW MEXICO BUREAU OF MINES & MINERAL RESOURCES

TABLE 3. CHEMICAL ANALYSES OF WATER FROM WELLS IN EDDY COUNTY, NEW MEXICO
LOCATION NUMBERS CORRESPOND TO THOSE IN TABLE 1
Analyses by U. S. Geological Survey (Parts per million)

LOCATION NUMBER	DATE OF COLLEC- TION	SPECIFIC CONDUCT- ANCE (MICROMHOS AT 25° C.)	SILICA (SiO ₂)	CAL- CIUM (Ca)	MAGNE- SIUM (Mg)	SODIUM AND POTAS- SIUM (Na+K)	BICAR- BONATE (HCO ₃)	SUL- FATE (SO ₄)	CHLO- RIDE (Cl)	FLUO- RIDE (F)	NI- TRATE (NO ₃)	DIS- SOLVED SOLIDS	TOTAL		PER- CENT SODIUM
													CaCO ₃	HARD- NESS AS	
162138200	1-11-60	948	19	109	66	17	190	336	24	-	5	656	602	7	
16312122	12-9-48	818	-	78	63	38	168	139	82	-	30	478	330		
172424210	1-11-60	671	24	76	27	6	277	59	6	-	19	351	298	4	
172711110	12-21-48	2,880	-	616	118	25	185	1,780	83	-	31	2,690	2,020		
172814220	12-6-48	6,130	-	660	161	393	160	1,810	815	-	8.2	3,920	2,310	-	
173184000	do.	1,330	-	106	41	188	265	423	64	-	1.1	883	433	-	
182924300	4-28-60	2,160	25	397	68	43	167	911	110	-	98	1,780	1,230	71	
182627233	2-11-44	1,680	-	249	101	20	211	829	30	-	1.5	1,350	1,040	-	
19282122	12-13-48	7,280	-	412	195	987	142	1,300	1,770	-	11	4,740	1,830	-	
18210	4-28-60	4,370	32	234	101	858	202	598	1,010	-	18	2,570	1,000	64	
192913410	1-20-60	501	32	84	15	7.1	151	78	8	-	16	350	271	5	
20220	12-21-48	3,540	-	628	104	171	219	1,820	240	-	11	3,050	1,990	-	
193128380	do.	2,460	-	246	35	53	223	1,620	88	-	18	2,400	1,710	-	
33110b	5-1-60	1,190	23	139	54	66	219	398	65	-	9	855	669	18	
202617380	do.	3,530	40	504	303	46	191	2,160	60	-	136	3,340	2,600	39	
202828200	6-24-49	2,810	-	820	160	24	209	1,660	64	-	6.5	2,650	1,940	3	
20293433	1-20-60	3,460	35	615	160	24	209	1,660	64	-	22	3,110	2,060	15	
20293433	4-29-60	2,460	35	620	124	168	153	1,710	848	-	35	2,360	1,720	1	
20303223	5-1-60	2,480	44	632	20	7.6	155	1,490	18	-	1.4	2,400	1,740	80	
3424	do.	3,280	71	648	105	90	160	1,640	29	-	10	2,930	2,050	9	
16420	do.	3,990	38	636	108	260	114	1,670	380	-	33	3,370	2,030	22	
20130	do.	2,680	36	680	68	177	166	1,590	388	-	24	3,060	1,980	16	
38440	do.	4,760	33	662	152	348	108	1,960	620	-	29	3,860	2,280	25	
203113440	12-22-48	8,070	-	408	626	931	248	4,280	785	-	68	7,080	3,590	-	
16240	do.	4,820	-	132	190	707	801	1,190	-	-	-	3,220	1,110	-	