Robert L. Bayless
PETROLEUM CLUB PLAZA BUILDING
P. O. BOX 1541
FARMINGTON, NEW MEXICO 87401

W1

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JUL 27 1973
OIL CONSERVATION COMM
Santa Fe

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CONSERVATION COMM
Santa Fe

July 19, 1973

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

Re: Navajo Tract 20-2

Gentlemen:

Pursuant to Rule 701 enclosed please find three copies each of:
(1) Plat showing proposed injection well and producing well. There are no other active wells within a two mile radius.
(2) Electrilog of well 20-2
(3) Sketch of casing, tubing, and perforations
(4) Salt water produced from the Navajo 20-1 well at rates of 150-200 barrels per day will be injected into the Hermosa formation at 6295-6390.
(5) C-108

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OIL CON. COM.
DIST. 3

The only other oil and gas lease holder within a two mile radius of injection well is Raymond T. Duncan of Denver and copy of this application is being sent him. The United States Geological Survey will also receive a copy. Please consider our request for administrative approval of this water disposal program.

Yours truly,
MERRION & BAYLESS

Robert L. Bayless

RLB:cbr
Enclosures: Well plat, Electrilog, sketch of casing, tubing, and perforations, C-108.

CC: Raymond T. Duncan
1800 Security Life Building
Denver, Colorado

United States Geological Survey
Petroleum Club Plaza
Farmington, New Mexico 87401

OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

August 6, 1973

Mr. Robert L. Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Dear Mr. Bayless:

Enclosed herewith please find Administrative Order SWD-145 for your Navajo Tract 20 Well No. 2 located in Unit L of Section 30, Township 29 North, Range 17 West, NMPM, San Juan County, New Mexico, to permit the injection of salt water for disposal purposes into the Hermosa formation at approximately 6295 feet to approximately 6390 feet through 2-inch tubing with a packer set at approximately 6000 feet.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

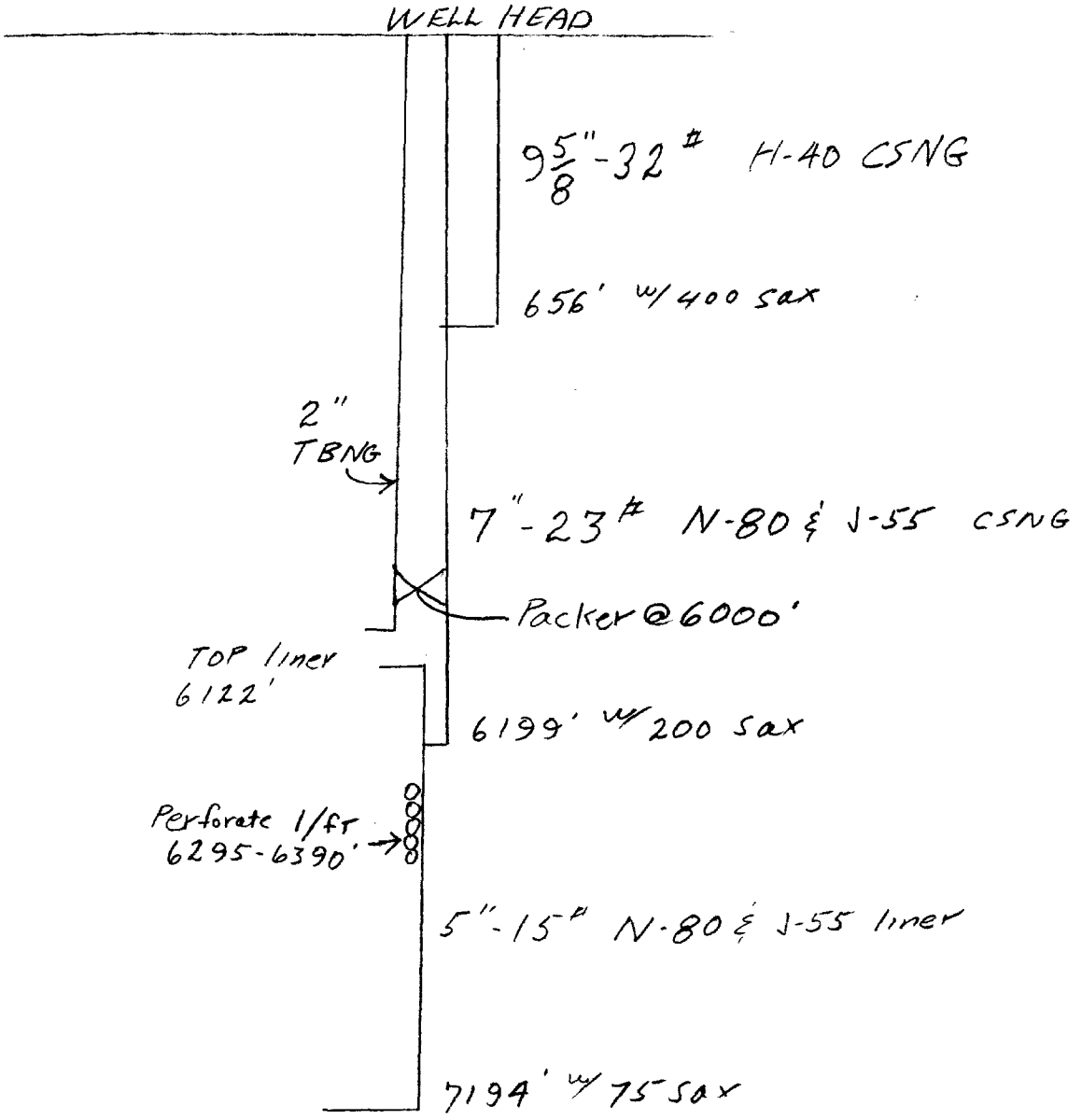
ALP/JEK/og

cc: Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico

MERRION & BAYLESS

Navajo #20-2

Injection Well Subsurface Equipment



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Santa Fe

Form 7-1
Release Regs

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR	ADDRESS
J. Gregory Merrion & Robert L. Bayless	P.O.Box 1541 Farmington, New Mexico 87401

LEASE NAME	WELL NO.	FIELD	COUNTY
Navajo Tract 20	2	Parajito	San Juan

LOCATION

UNIT LETTER L ; WELL IS LOCATED 1980 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 30 TOWNSHIP 29N RANGE 17W NMPM.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	9 5/8"	656	400	surface	circulated
INTERMEDIATE	7 "	6199	200	4275	temp survey
LONG STRING liner	5 "	6122 7194	75	6122	squeezed
TUBING	2	6000	NAME, MODEL AND DEPTH OF TUBING PACKER: Halliburton Tension Packer @ 6000'		

NAME OF PROPOSED INJECTION FORMATION	TOP OF FORMATION	BOTTOM OF FORMATION
Hermosa	6295	6390

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
tubing	6295-6390	same

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	as oil producer	Yes

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

7194-7236 squeezed with 50 sax, 6850-6860 squeezed with 15 sax

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
2100	NONE	7198-7222

ANTICIPATED DAILY INJECTION VOLUME (BBLS.) MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
150	200	closed	pressure	500

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?
Unfit	Unfit	Unfit	No

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

Navajo Tribe c/o United States Geological Survey

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

NONE

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	No Operators	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.

R L Bayless	Co-Operator	July 19, 1973
(Signature)	(Title)	(Date)

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.

SCHLUMBERGER

COUNTY SAN JUAN
FIELD or LOCATION UNDESIGNATED
WELL NAVAJO TRACT 20 #2
COMPANY AMERADA PETROLEUM

COMPANY AMERADA PETROLEUM CORPORATION

WELL NAVAJO TRACT 20 #2

FIELD UNDESIGNATED

COUNTY SAN JUAN STATE NEW MEXICO

LOCATION
1980' FSL & 660' FWL
Sec. 30 Twp. 29N Rge. 17W

Other Services:
NW SW

Permanent Datum: G.L. Elev. 5230'
Log Measured From K.B. 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 5241'
D.F. 5240'
G.L. 5230'

Date	9-10-63	9-22-63		
Run No.	ONE	TWO		
Depth—Driller	6200	7188		
Depth—Logger	6199	7190		
Btm. Log Interval	6193	7187		
Top Log Interval	30	6000		
Casing—Driller	9 5/8 @ 656	7" @ 6199		
Casing—Logger	657	6203		
Bit Size	8 3/4"	6 1/8"		
Type Fluid in Hole	CHEM-GEL	CHEM-GEL		
Dens. / Visc.	10.2 / 50	8.5 / 42		
pH / Fluid Loss	12.5 / 8.8ml	12.5 / 22.4ml	ml	ml
Source of Sample	FLOW LINE	FLOW LINE		
R_m @ Meas. Temp.	1.00 @ 86 °F	1.5 @ 86 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	0.89 @ 86 °F	1.0 @ 98 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	- @ - °F	.86 @ 98 °F	@ °F	@ °F
Source: R_{mf} R_{mc}	M -	M M		
R_m @ BHT	0.67 @ 128°F	.85 @ 150°F	@ °F	@ °F
Time Since Circ.	--	2 HOURS		
Max. Rec. Temp.	128 °F	150 °F	°F	°F
Equip. / Location	3520 / FARM	3520 / FARM		
Recorded By	FEATHER	SOERENSEN		
Witnessed By	MR. KERSHNER	MR. SWETNAM	& MR. POWELL	

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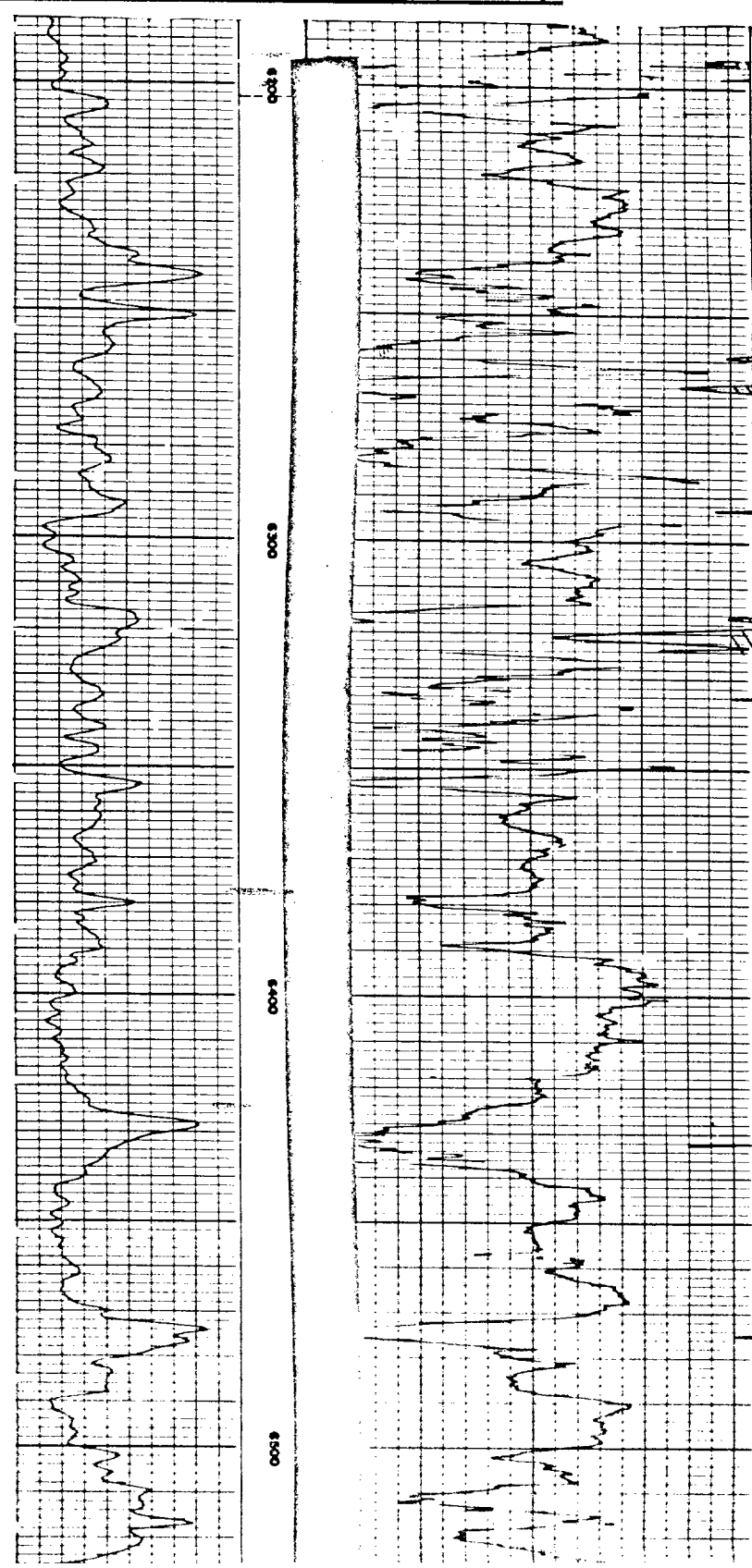

MERRION & BAYLESS

NAVAJO TRACT 20-2

Water Disposal

Acreage Ownership & Well Locations