



YATES BUILDING - 207 SOUTH 4TH ST.
ARTESIA, NEW MEXICO - 88210

June 14, 1971

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Salt Water Disposal Wells
Eagle Creek S. A. Pool Eddy County New Mexico

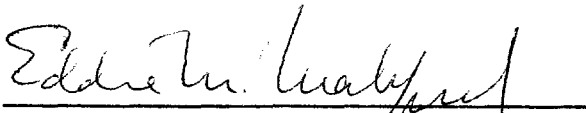
Dear Sir:

Further to our telephone conversation of June 3rd, application is hereby submitted for Administrative Approval for the conversion of two additional wells to salt water disposal in the Eagle Creek Field, Eddy County, approximately two miles west of Artesia, New Mexico. We have one disposal well at this time, permitted under NMOCC Order 3603, dated 27th day of November, 1968.

Attached hereto are plat showing location of proposed disposal wells with respect to other wells within a radius of two miles, electric logs and diagrammatic sketches of the proposed injection wells and a copy of water analyses by Dowell & Halliburton, also Form C-108. Please note that Yates Petroleum is the Operator of all wells within one-half mile of the proposed disposal wells.

Yours truly,

YATES PETROLEUM CORPORATION


Eddie M. Mahfood - Engineer

EM: CT

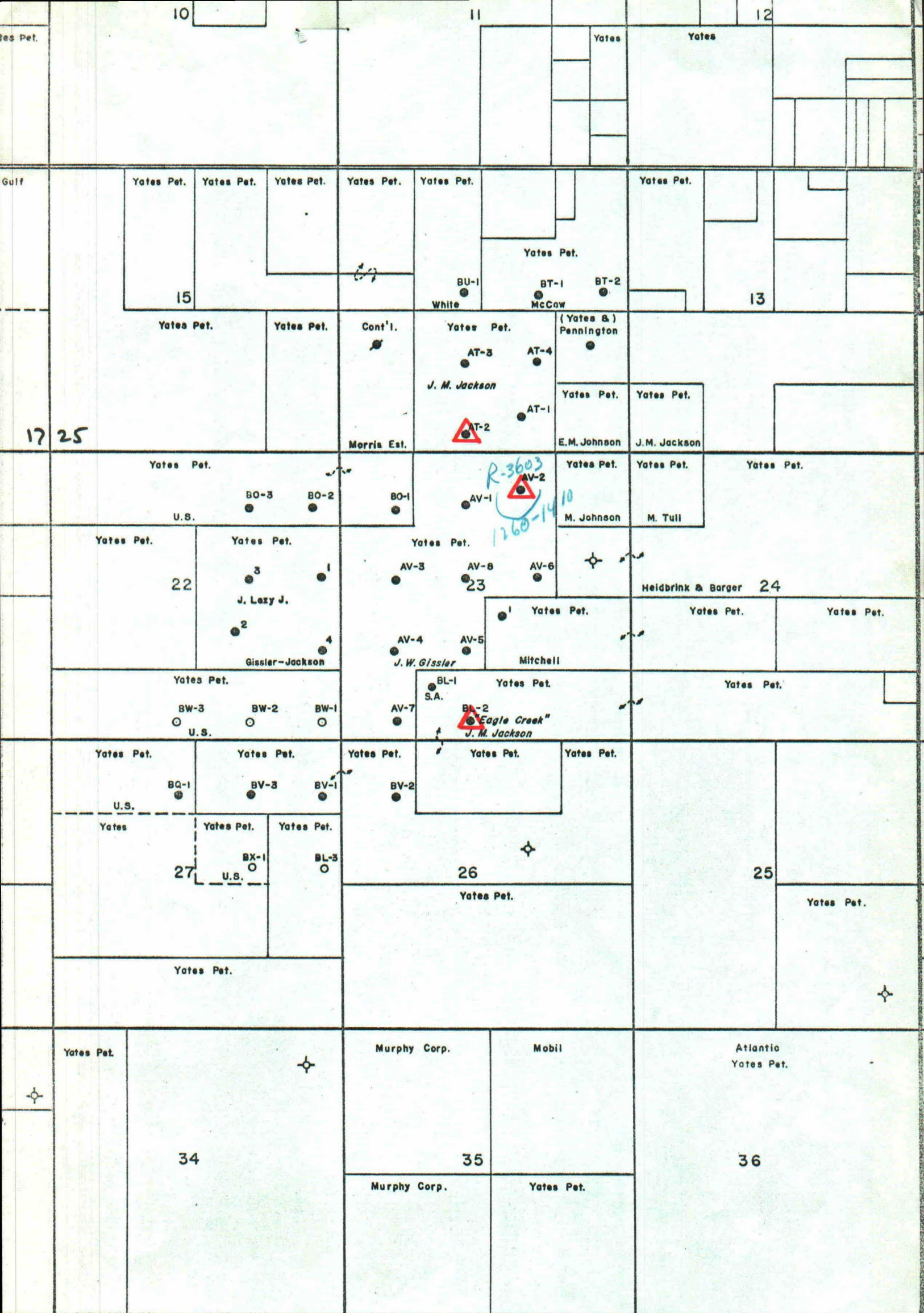
ENCL.

cc: Mr. Reynolds, State Engineer, Roswell
Mr. Gressett, NMOCC, Artesia

S. P. YATES
PRESIDENT
HARVEY E. YATES
VICE PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
SECRETARY
HUGH W. PARRY
TREASURER

71 JUN 16 PM 1 12

*SWD-122
Jackson AT #2 N
14-175-25E
SWD-123
Eagle Creek BL #2 N
23-175-25E*



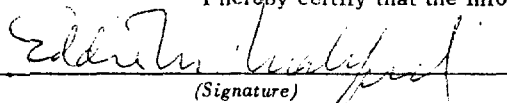
Salt Water Disposal Well

Yates Petroleum Corp
Eagle Creek Field
Eddy County, New Mexico
2-3 miles West of Axtoria, N.M.

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Yates Petroleum Corporation			ADDRESS 207 South 4th Street-Artesia, N.M.		
LEASE NAME Eagle Creek BL		WELL NO. 2	FIELD Eagle Creek S.A.		COUNTY Eddy
LOCATION UNIT LETTER N ; WELL IS LOCATED 330 FEET FROM THE South LINE AND 2310 FEET FROM THE West LINE, SECTION 23 TOWNSHIP 17S RANGE 25E NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	10 3/4"	201 RT	50	Surface	Circulated
INTERMEDIATE	7"	1167 RT	600	Surface	Circulated
LONG STRING	4 1/2 & 5 1/2"	1452 RT	125	Surface	Circulated
TUBING	2 3/8"	1300	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Shorty Tension Pkr. @Approx 1300'		
NAME OF PROPOSED INJECTION FORMATION San Andres-Slaughter			TOP OF FORMATION 1290 RT 1277 GL		BOTTOM OF FORMATION 1464 RT 1451' GL
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 1340-1422 RT		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH N.A.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1066 RT		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 1167 RT		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Not Penetrated	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 50	MINIMUM 200	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 700-900
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 - Yes			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Bill Gissler Artesia, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Yates Petroleum Corporation					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Same	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER Yes	
				DIAGRAMMATIC SKETCH OF WELL Yes	

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



(Signature)

Engineer

(Title)

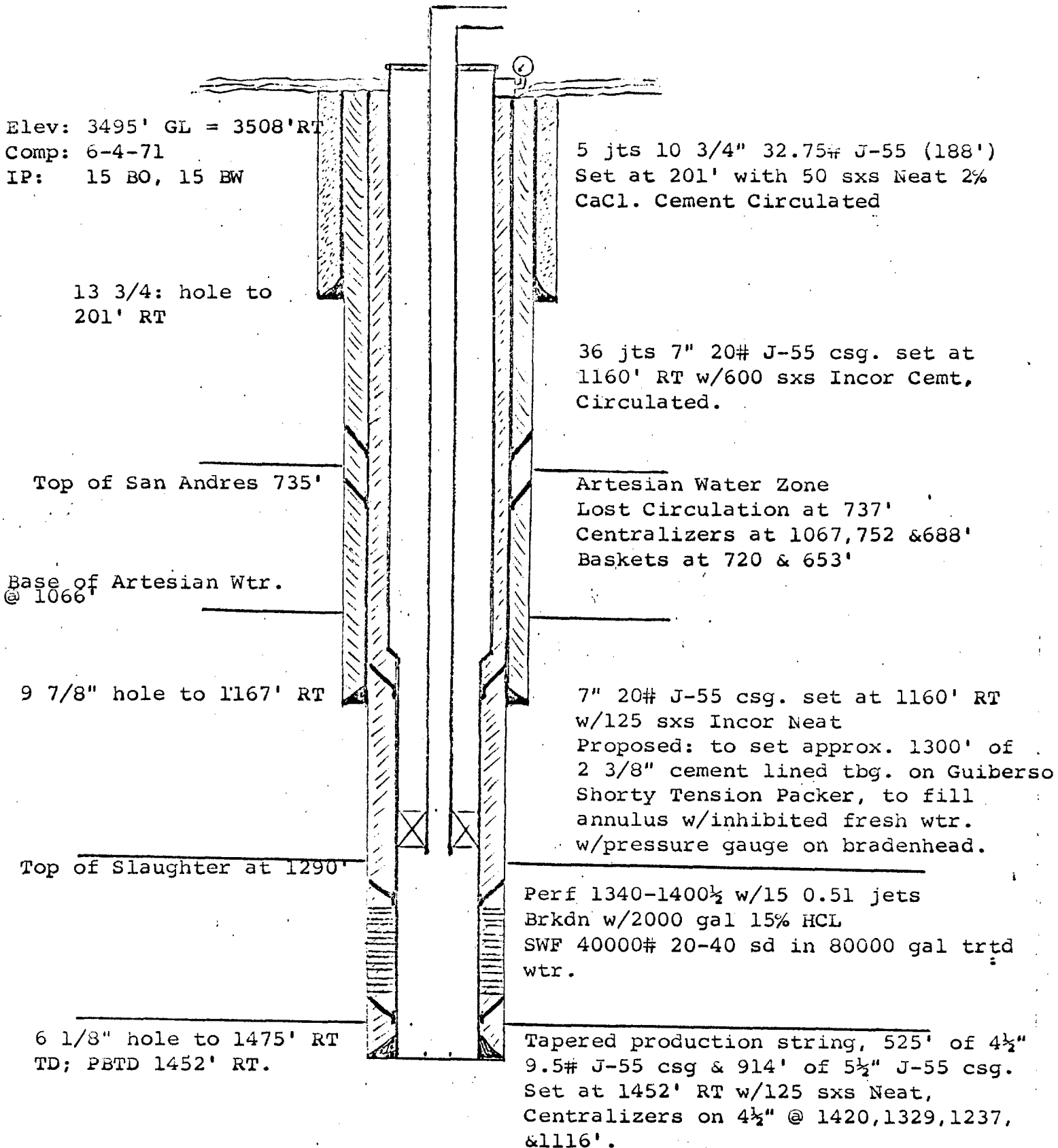
6-14-71

(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.

DIAGRAMMATIC SKETCH OF PROPOSED DISPOSAL WELL

Yates Petroleum Corporation - Eagle Creek BL #2
330' FSL & 2310' FWL - Sec. 23-T17S-R25E
Eagle Creek (S.A.) Eddy County, N.M.



Yates Petroleum Corp
 Eagle Creek BL #2
 330/S 2310/W Sec 23-17-25
 Eagle Creek, Eddy Co, N. Mex
 Drilling Time, mins/ft
 2 4 6 8 10 12

% of sple w/ fluorescence

50%

% sple w/ visual ϕ

50%

Top of Slaughter Pay

1300

Ref 1340-1400

1400

GRD 1464

NRO 1472

HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY

LOVINGTON, NEW MEXICO

LABORATORY WATER ANALYSIS

No. W1-287-71To Yates Petroleum CompanyDate 6/8/71207 South 4thArtesia, New Mexico 88210

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____

Date Rec. _____

Well No. B O # 3

Depth _____

Formation San Andres

County _____

Field _____

Source _____

Resistivity048 @ 76 FSpecific Gravity 1.130pH 6.4Calcium (Ca) 3,150

*MPL

Magnesium (Mg) 990Chlorides (Cl) 116,500Sulfates (SO₄) 4,400Bicarbonates (HCO₃) 734Soluble Iron (Fe) Nil

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Robert Lansford

cc:

HALLIBURTON COMPANY

By R. L. Lansford

CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

WATER ANALYSIS REPORT

TO: YATES PETROLEUM CORPORATION
207 SOUTH 4TH STREET
ARTESIA, NEW MEXICO 88210

LABORATORY NO.: HOBBS 801
DATE: MAY 26, 1971

WELL NAME + NO.:	BL 2	DEPTH:	1400 FT
FIELD:	CREEK	FORMATION:	SAN ANDRES
COUNTY:	EDDY	STATE:	NEW MEXICO
SAMPLE PT.:	WELL HEAD	SAMPLE ID:	LOAD

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	MEG/L		
SODIUM, NA	39409	1710	PH =	6.55
CALCIUM, CA	2000	99	SP GR =	1.080
MAGNESIUM, MG	851	70	RESISTIVITY=	.0000

ANIONS

CHLORIDES, CL	62049	1749
SULFATES, SO4	5500	114
BICARBONATES, HCO3	975	15

THE CALCIUM CARBONATE STABILITY INDEX= 1.77984

THE CALCIUM SULFATE STABILITY INDEX IS .63

A NEGATIVE NUMBER INDICATES THE SCALE IN SOLUTION DOES NOT EXCEED THE SATURATION VALUE AND SHOULD NOT PRECIPITATE.

REMARKS AND RECOMMENDATIONS:

IRON = 12.25 PPM

H2S = PRESENT

THIS WATER IS LOAD WATER AFTER FRAC JOB BY HALCO.

CAN THIS WATER BE USED AGAIN FOR ANOTHER FRAC JOB?

JACK SARFF