



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

October 30, 1984

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Belco Petroleum Corporation
10000 Old Katy Road, Suite 100
Houston, Texas 77055

Re: SWD Injection Permit
Federal RV 4 No. 1
Unit O, Sec. 4,
T-22-S, R-25-E
Eddy County, N.M.

Gentlemen:

In an effort to update our files regarding Salt Water Disposal Permits, we are requesting some information on the above-mentioned well. Our records show that your company was issued a SWD Injection Permit No. SWD-216 by us on November 28, 1979. Our records also show that since that time, this well has not been used for salt water disposal. Since a great deal of time has passed since your injection permit was granted, we assume that it is no longer your intention to use this well for water disposal purposes.

We are requesting information on the present status of this well, and whether or not your company intends to utilize this well for water disposal purposes at this time or in the near future. We would appreciate a response to this letter within thirty days. If we have not had a written response within that period of time, the injection permit granted by us will be rescinded.

Thank you for your cooperation in this matter.

Sincerely,

DAVID CATANACH
Petroleum Engineer

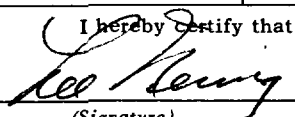
DC/dr

NOV 19 1979

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-108
Revised 1-1-65APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION
ARTEBIA, OFFICE

OPERATOR BELCO PETROLEUM CORPORATION		ADDRESS 10,000 Old Katy Rd., Suite 100, Hou., Tx. 77055	
LEASE NAME Federal RV-4	WELL NO. 1	FIELD Revelation Morrow	COUNTY Eddy
LOCATION UNIT LETTER <u>0</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>4</u> TOWNSHIP <u>22S</u> RANGE <u>25E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	48#/13-3/8"	316'	300	Surface	115 sxs cmt circulated out
INTERMEDIATE	36#/9-5/8"	2320'	1000	Surface	250 sxs cmt circulated out
LONG STRING	17#&20# 5-1/2"	10936'	1275	8560'	Temp. Survey
TUBING	2-3/8"	8665'	NAME, MODEL AND DEPTH OF TUBING PACKER Otis WB set @ 8665'		
NAME OF PROPOSED INJECTION FORMATION Cisco-Canyon			TOP OF FORMATION 8552'		BOTTOM OF FORMATION 9500'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 8724-38' (Perfs)		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Gas development, Morrow formation		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 10,440-54; 10484-88; 10550-58; 10,578-84; 10612-20; 10,790-800 (over)					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 2050' ?		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Unknown		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 9500'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 100	MINIMUM 100	MAXIMUM 150	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? pressure	APPROX. PRESSURE (PSI) 1000 psi
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 Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes - Not available
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Federal surface ownership NM 18605					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Belco Petroleum Corporation, 10,000 Old Katy Rd. Suite 100, Houston, Tx. 77055 Texas Pacific Oil Co. P.O. Box 4067, Midland, Texas 79701					
<div style="text-align: center;">  (Signature) </div>					
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 Yes	
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.

Administrative Geologist

Nov. 16, 1979

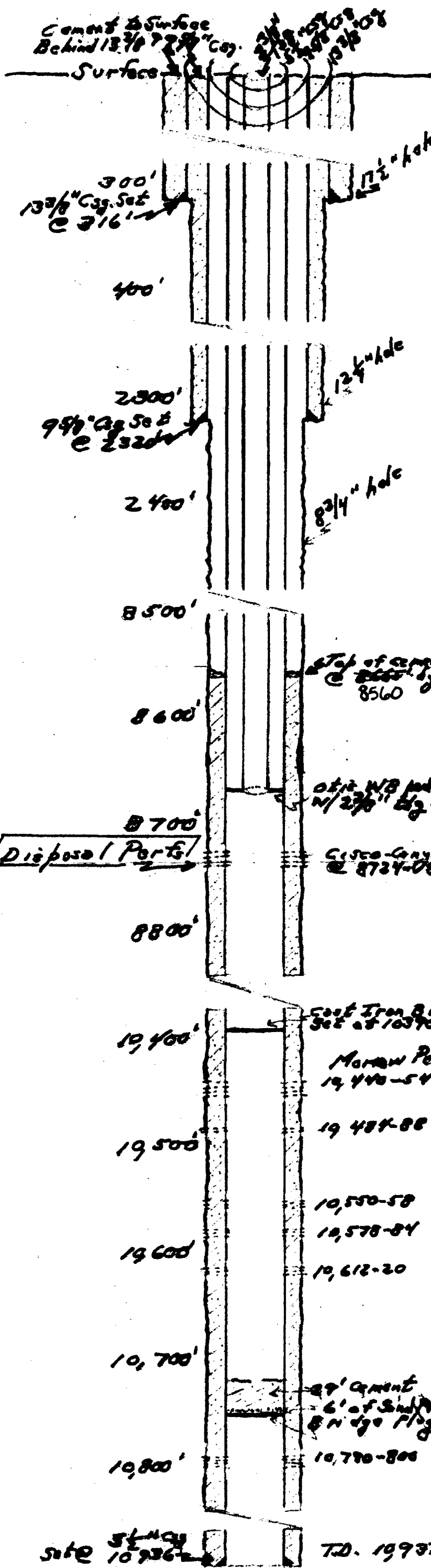
(Signature)

(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.

- A. Overall perfs 10,440-10,800 isolated by cement behind 5-1/2" casing (1275 sxs) and Cast Iron BP set inside 5-1/2" @ 10,390'.
- B. Thru tbg BP set @ 10,750 to isolate perfs @ 10,790-800'; 6' of 10/20 sand set as plug from 10,743-49' 6 sxs of cement set on top of 29' of cement set on top of sand plug.



BELCO PETROLEUM CO.
 Federal RV 4-1
 Sec 4 T. 22S. R. 25E
 Eddy Co., N.M.
 PROPOSED
 Salt Water Disposal
 in
 Cisco - Canyon
 @
 8724-8738'

Scales:
 Horiz. 1" = 10'
 Vert 1" = 100'
 L.S.N. 11-79

10000 Old Katy Road
Suite 100
Houston, Texas 77055
Telephone (713) 932-4700
Cable: BELPETEX

Belco Petroleum Corporation

Belco

November 16, 1979

State of New Mexico
State Engineer Office
Roswell, New Mexico 88201

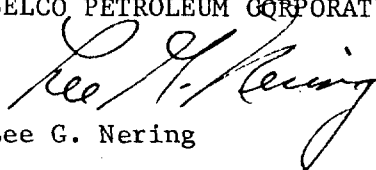
Re: Conversion to SWD Well
Belco RV 4-1 0-4-22-25
Eddy Co., New Mexico

Gentlemen:

By copy of attached New Mexico Oil Conservation Division Form C-108, please be advised that Belco has applied for conversion to Salt Water Disposal facility a depleted Morrow gas well; Belco's RV 4-1, Unit 0, Sec. 4, T-22-S, R-25-E, Eddy County, New Mexico. We plan to dispose of Morrow salt water from the Revelation Morrow pool into the Cisco Canyon formation thru tubing and into perforations at 8724'-8738'.

Sincerely,

BELCO PETROLEUM CORPORATION


Lee G. Nering

LGN:pd
attachment

10000 Old Katy Road
Suite 100
Houston, Texas 77055
Telephone (713) 932-4700
Cable: BELPETEX

Belco Petroleum Corporation

Belco

November 16, 1979

Texas Pacific Oil Co.
P. O. Box 4067
Midland, Texas 79701

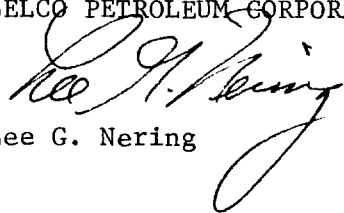
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Sincerely,

BELCO PETROLEUM CORPORATION


Lee G. Nering

LGN:pd
attachment



DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE 12-9-77

LAB NO.

Company BELCO PETROLEUM CORP.		Sample No.	Date Sampled 12-8-77
Field	Legal Description	County or Parish EDDY	State N.M.
Lease or Unit	Well RV-10 #1	Depth	Formation MORROW
Type of Water (Produced, Supply, etc.)	Sampling Point WELLHEAD	Water, B/D	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)		<u>26,413</u>
Calcium, Ca		<u>1680</u>
Magnesium, Mg		<u>584</u>
Barium, Ba		

ANIONS

Chloride, Cl		<u>44,940</u>
Sulfate, SO ₄		<u>300</u>
Carbonate, CO ₃		<u>183</u>
Bicarbonate, HCO ₃		

Total Dissolved Solids (calc.)

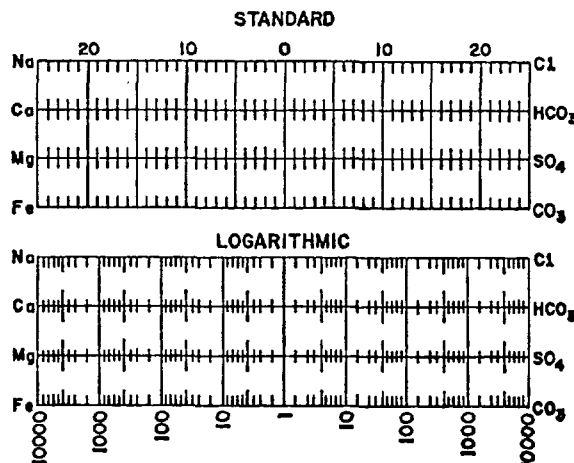
Iron, Fe (total)

Sulfide, as H₂S

OTHER PROPERTIES

pH	<u>5.9</u> (kw)
Specific Gravity, 60/60 F.	<u>1.054</u>
Resistivity (ohm-meters) _____ F.	

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS: