Release Date 4-30-92

PHILLIPS PETROLEUM COMPANY
ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP
Permian Basin Area

April 14, 1992

Livingston Ridge Fed
Well No. 9
Eddy County, NM

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Attention: Mr. Catanach

Dear Mr. Catanach:

Please find attached an application to revise the injection authority on the Livingston Ridge Fed Well No. 9. This well was approved by the NMOCD for salt water disposal into the Strawn formation. This zone will not take the volume of water that is needed. To improve the injectivity, Phillips Petroleum Company requests permission to utilize the Bell Canyon (Delaware) formation for disposal.

Please direct any questions to me at (915) 368-1667.

Yours very truly,

Joy Maples, Analyst
Regulation & Proration

JM:sdb
REGPRO:JMAPL:livfed9

Attachment

cc: OCD - Artesia
BLM - Carlsbad

d

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Phillips Petroleum Company

Address: 4001 Penbrook Odessa, TX 79762

Contact party: Larry M. Sanders Phone: (915) 368-1488

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Jack E. Pickett Title Reservoir Engineering Supervisor

Signature: J E Pickett Date: 3/12/82

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

APPLICATION FOR AUTHORIZATION TO INJECT

PHILLIPS PETROLEUM COMPANY
Livingston Ridge Well No. 9W

III. WELL DATA (existing)

A. Name, Location, and Wellbore Data

Note: This well has been approved by the NMOCD for salt water disposal into the Strawn formation via Administrative Order No. SWD-435. It is Phillips' intention to plug back from the Strawn and recomplete the well for salt water disposal into the Bell Canyon (Delaware) formation for improved injectivity.

1. Name & Location: Livingston Ridge No. 9W
990' FSL & 1980' FWL
Sec. 1, T-22-S, R-30-E
Eddy County, New Mexico

2. Casing:

Surface	13-3/8", 48 lb/ft, H-40, ST&C set at 475'. (17-1/2" hole.) Cemented with 250 sx Halliburton Lite plus 150 sx Class "C" with 2% CaCl2. Cement circulated.
Intermediate	10-3/4", 51 lb/ft, P-110 set at 3748'. (12-1/4" hole.) Cmt'd with 1500 sx Halliburton Lite plus 200 sx Class "C". Cement circulated.
7-5/8" Liner	Top to bottom: B&W liner hanger (10') with 7-5/8" tieback at 3663'; 29.7 lb/ft N-80 (4762'); 33 lb/ft N-80 (434'); 37 & 39 lb/ft N-80 (1478'); plug catcher, double float, & guide shoe (3') at 10,350'. Total length (3663'-10,350') = 6687'. (9-1/2" hole.) Cemented with 1250 sx Halliburton Lite with 5# Gilsonite & 1/4 lb Flosal per sack followed with 200 sx Class "C" with 1/4 lb Flosal per sack plus 1% CFR-2. Cement circulated.
Production Liner	Top to bottom: B&W liner hanger with 5-1/2" tieback a 10,170';

5-1/2" 17 lb/ft 8rd (781');
5-1/2" 20 lb/ft X-line (1413');
4-1/2" 13.5 lb/ft FJ Hydril (1496'). Total length (10,170'-13,950') = 3780'. (6-1/2" hole.) Cemented with 500 sx Halad 22 with 1/4# Flocele per sack & 3# KCl per sack. Cement circulated.

Bridge Plugs: 5-1/2" at 13,510'
5-1/2" at 13,802'

(proposed)

3. Injection Tubing: 2-7/8", 6.5 lb/ft, J-55 (internally plastic coated) set at ±3800'.

4. Injection Packer: Baker Loc-Set Retrievable packer with Baker Model "FL" On/Off tool set at ±3800'.

B. Reservoir Data

1. Injection Formation: Bell Canyon (Delaware)

   Field Name: Cabin Lake

2. Proposed Injection Intervals:

3854'-3920'	66'
3936'-4024'	88'
4318'-4354'	36'
4364'-4440'	76'
4456'-4538'	82'

348' net injection interval

3. Original Intent: Morrow gas well

4. Other Perforated Zones:

Strawn	12,357'-12,370'
Morrow	13,543'-13,556
	13,660'-13,670
	13,893'-13,905'

5. Productive Zones:

Next Higher	none
Next Lower	Brushy Canyon ±7450'-±7510'

VII. PROPOSED INJECTIONS OPERATIONS

1. Injection Rate: Average = 2000 bwpd
   Maximum = to be determined with a step-rate test.
2. Injection System: Closed
3. Injection Pressure: Average = 500 psi
   Maximum = 200 psi below fracture pressure (to be determined with a step-rate test)
4. Injection Fluid: Produced water from Phillips' James "A", James "E", Peak View, and Livingston Ridge leases. Chemical analysis of produced water from the James "A", James "E", Livingston Ridge, and Peak View leases is attached.

VIII. Geologic Data

A. Injection Zone

1. Name: Bell Canyon (Delaware)
2. Description: Injection will be into the Bell Canyon (Delaware) formation through the following perforated intervals: 3854'-3920', 3936'-4024', 4318'-4354', 4364'-4440', & 4456'-4538'. The Bell Canyon is a silty sandstone formation with a gross thickness of ±780' and a net porosity thickness of ±350'. The depth to the top of the Bell Canyon is 3,830'.

B. Fresh Water Sources

There are no underground sources of drinking water above

or below the bell Canyon (Delaware) formation.

IX. PROPOSED STIMULATION PROGRAM

The Bell Canyon perforated intervals will be treated with 7-1/2% NEFe HCl acid with fines suspension agents, clay stabilizers, and LST agents as follows:

Perf'd Interval	Volume
3854'-3920'	3300 gallons
3936'-4024'	4400 gallons
4318'-4354'	1800 gallons
4364'-4440'	3800 gallons
4456'-4538'	4100 gallons

X. LOGGING DATA

Well logs for this well have been filed with the Division.

XI. FRESH WATER ANALYSIS

There are no underground sources of fresh water within 1 mile of the Livingston Ridge No. 9W well location.

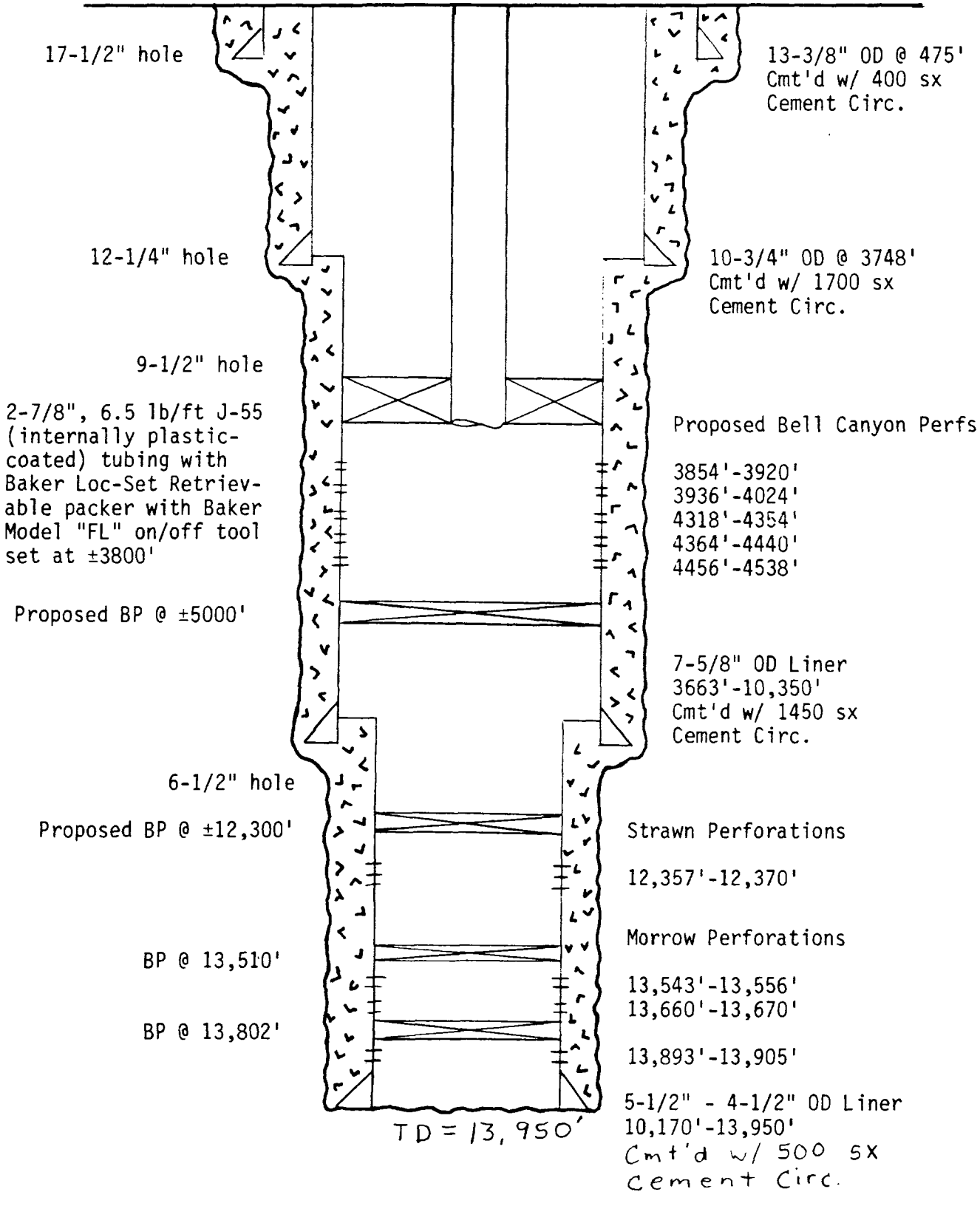
XIII. PROOF OF NOTICE

A copy of this application has been furnished to the land owner (Bureau of Land Management) of the land on which the Livingston Ridge No. 9W is located and the leasehold operators within the Area of Review.

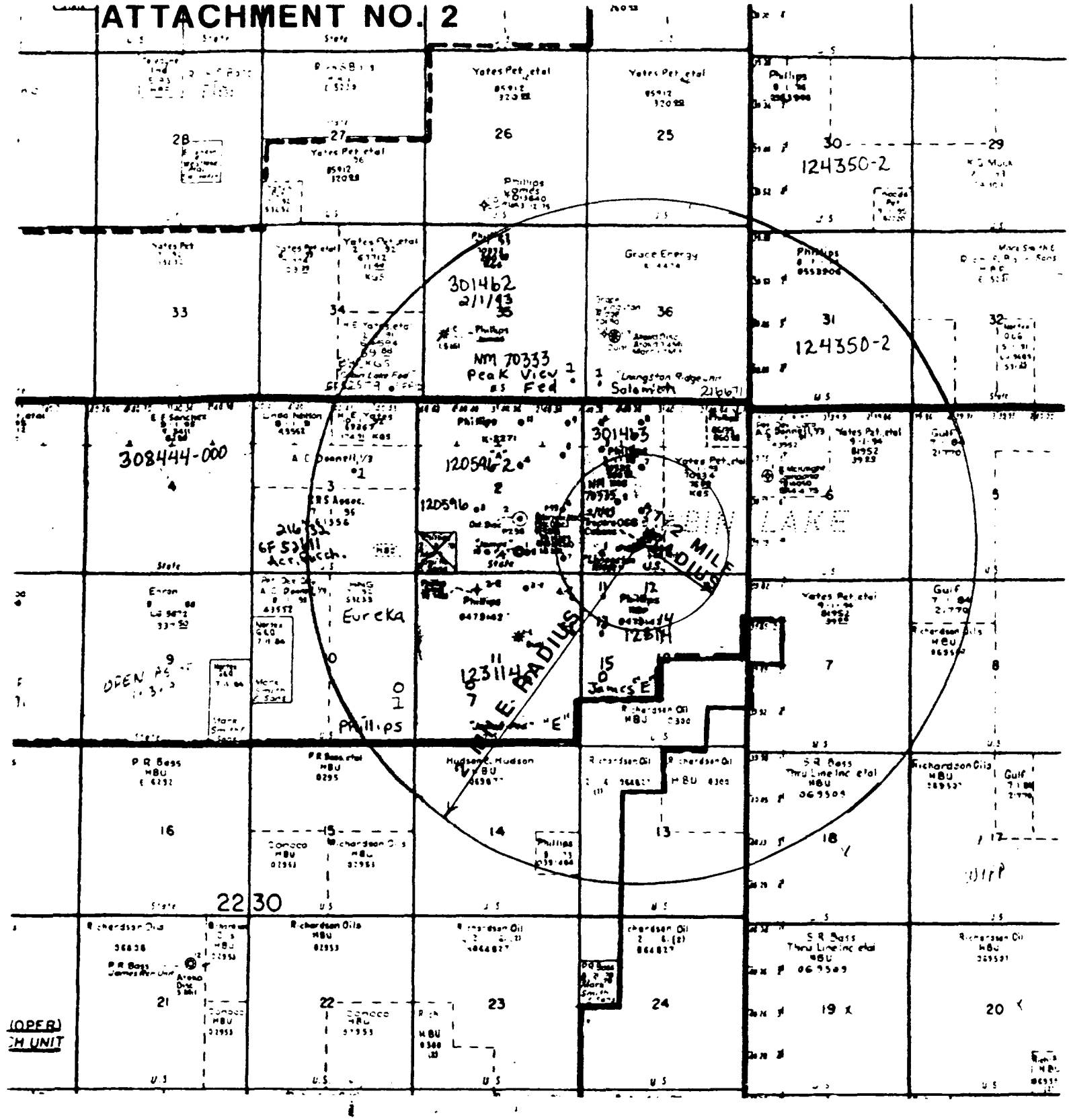
ATTACHMENT NO. 1

PHILLIPS PETROLEUM COMPANY

Livingston Ridge No. 9W
Proposed Water Disposal Well
990' FSL & 1980' FWL
Section 1, T22S, R30E
Eddy County, New Mexico



ATTACHMENT NO. 2



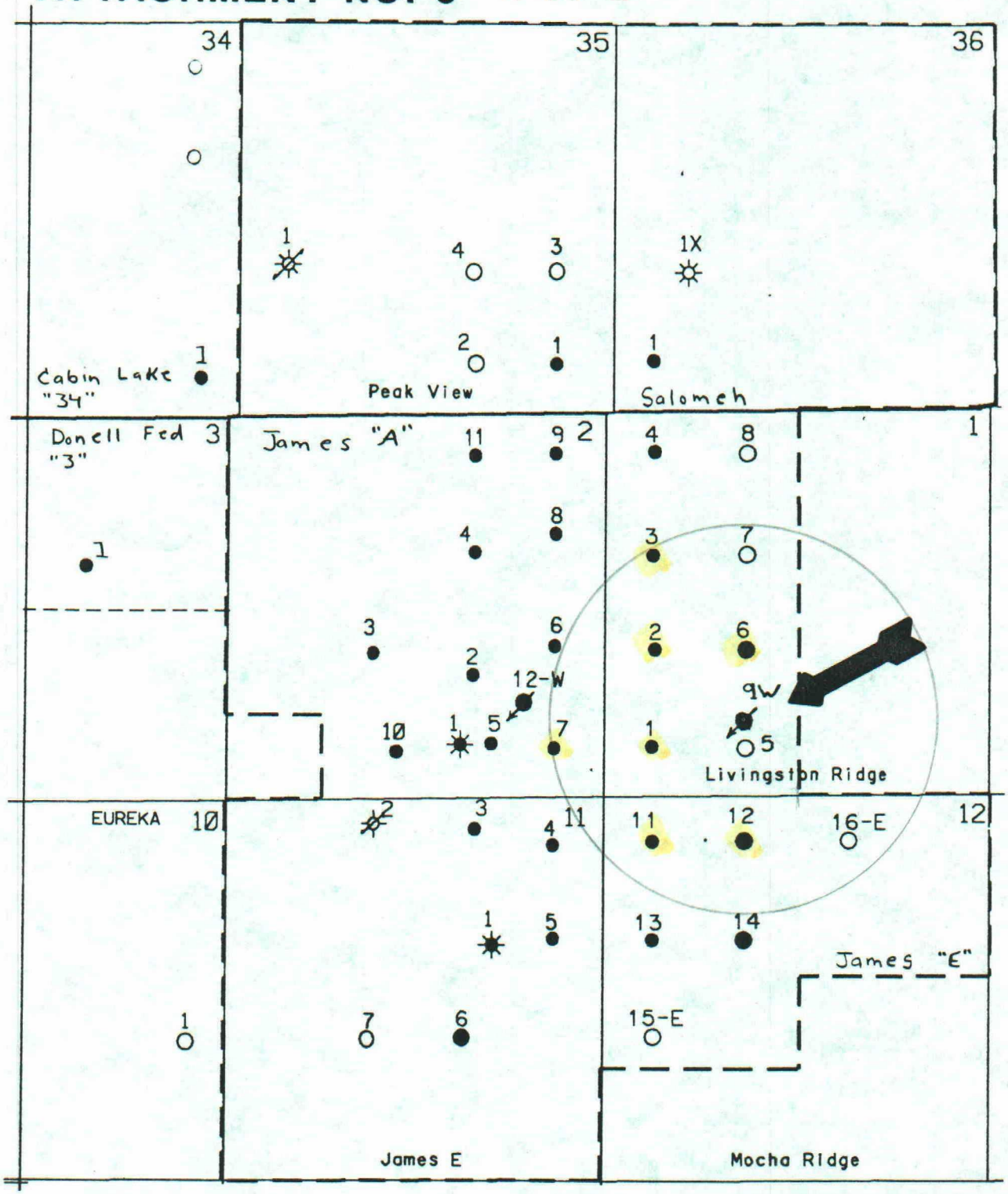
2 MILE RADIUS

OF PROPOSED WATER DISPOSAL

PHILLIPS PETROLEUM COMPANY

LIVINGSTON RIDGE NO. 9W

ATTACHMENT NO. 3



PHILLIPS PETROLEUM COMPANY

PROPOSED WATER DISPOSAL WELL
LIVINGSTON RIDGE NO. 9W
990' FSL & 1980' FWL
SEC. 1, T-22-S, R-30-E
EDDY COUNTY, NEW MEXICO

PHILLIPS PETROLEUM COMPANY
PERMIAN BASIN GEOLOGY

CABIN LAKE FIELD
T-21,22-S , R-30-E
EDDY CO,. NEW MEXICO
LOCATION MAP

SCALE: 1" = 2000'	C.I.:	GEOLOGY BY: D.L. WHITE	DATE: 7-90
CONTOURED ON			MAP NO.:
TYPE INFO.		DRAFTING: R.COSSIN	

CBNLAKE

TRETOLITE

Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box 5250
Hobbs, New Mexico 88241
(505) 392-6711 Phone
(505) 392-3759 Fax

WATER ANALYSIS REPORT

Company : PHILLIPS
Address :
Lease : PEAK VIEW FEDERAL
Well : #1
Sample Pt. : WELLHEAD

Date : 02/28/92
Date Sampled : 02/27/92
Analysis No. : 214

	ANALYSIS		mg/L		* meq/L
1.	pH	6.3			
2.	H2S	3 PPM			
3.	Specific Gravity	1.200			
4.	Total Dissolved Solids		124819.9		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		100 PPM		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)		50.0		
11.	Bicarbonate	HCO3	61.0	HCO3	1.0
12.	Chloride	Cl	81375.5	Cl	2295.5
13.	Sulfate	SO4	200.0	SO4	4.2
14.	Calcium	Ca	29490.9	Ca	1471.6
15.	Magnesium	Mg	6058.1	Mg	498.4
16.	Sodium (calculated)	Na	7602.0	Na	330.7
17.	Iron	Fe	32.5		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		98588.6		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

1472	*Ca <----- *HCO3	1
	/------->	
498	*Mg -----> *SO4	4
	<----------/	
331	*Na -----> *Cl	2295

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	1.0	81
CaSO4	68.1	4.2	283
CaCl2	55.5	1466.4	81372
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	498.4	23726
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	330.7	19324

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

REMARKS: TEMPERATURE 60 DEGREES F
S. HOLLINGER / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

ATTACHMENT NO. 4

PETROLITE

Petrolite Oil Field Chemicals Group
16010 Barker's Point Lane • Houston, Texas 77079
(713) 558-5200 • Telex 4620346 • Fax (713) 589-4737

Reply to: P.O. Box 5250
Hobbs, New Mexico 88241

Phone: (505) 392-6711
Fax: (505) 392-3759

WATER ANALYSIS REPORT

Company : PHILLIPS PETROLEUM
Address :
Lease : JAMES A
Well : BATTERY (PROD)
Sample Pt. : HEATER

Date : 05/23/91
Date Sampled : 05/22/91
Analysis No. : 1

	ANALYSIS		mg/L		* meq/L
1.	pH	5.5			
2.	H2S	0			
3.	Specific Gravity	1.185			
4.	Total Dissolved Solids		267561.9		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2		280		
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	61.0	HCO3	1.0
12.	Chloride	Cl	171039.0	Cl	4824.8
13.	Sulfate	SO4	1875.0	SO4	39.0
14.	Calcium	Ca	61240.0	Ca	3055.9
15.	Magnesium	Mg	9246.0	Mg	760.7
16.	Sodium (calculated)	Na	24099.9	Na	1048.3
17.	Iron	Fe	1.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		191000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

3056	*Ca <----- *HCO3	1
	/------->	
761	*Mg -----> *SO4	39
	<---------/	
1048	*Na -----> *Cl	4825

Saturation Values Dist. Water 20 C

CaCO3	13	mg/L
CaSO4 * 2H2O	2090	mg/L
BaSO4	2.4	mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	1.0	81
CaSO4	68.1	39.0	2657
CaCl2	55.5	3015.8	167349
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	760.7	36212
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	1048.3	61261

REMARKS:
S. HOLLINGER / R. ALLISON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

PETROLITE

Petrolite Oil Field Chemicals Group
16010 Barker's Point Lane • Houston, Texas 77079
(713) 558-5200 • Telex 4620346 • Fax (713) 589-4737

Reply to: P.O. Box 5250
Hobbs, New Mexico 88241

Phone: (505) 392-6711
Fax: (505) 392-3759

WATER ANALYSIS REPORT

Company : PHILLIPS PETROLEUM
Address :
Lease : JAMES E
Well : BATTERY (PROD)
Sample Pt. : HEATER

Date : 05/23/91
Date Sampled : 05/22/91
Analysis No. : 1

	ANALYSIS		mg/L		* meq/L
1.	pH	5.9			
2.	H2S	2 PPM			
3.	Specific Gravity	1.195			
4.	Total Dissolved Solids		266928.2		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2		200		
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	110.0	HCO3	1.8
12.	Chloride	Cl	171891.0	Cl	4848.8
13.	Sulfate	SO4	1875.0	SO4	39.0
14.	Calcium	Ca	65080.0	Ca	3247.5
15.	Magnesium	Mg	11045.9	Mg	908.8
16.	Sodium (calculated)	Na	16861.3	Na	733.4
17.	Iron	Fe	65.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		208000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

3248	*Ca <----- *HCO3	2
	/------->	
909	*Mg -----> *SO4	39
	<---------/	
733	*Na -----> *Cl	4849

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	1.8	146
CaSO4	68.1	39.0	2657
CaCl2	55.5	3206.7	177937
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	908.8	43261
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	733.4	42861

REMARKS:
S. HOLLINGER / R. ALLISON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

PETROLITE

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Hobbs, New Mexico 88241

Phone: (505) 392-6711
Fax: (505) 392-3759

WATER ANALYSIS REPORT

Company : PHILLIPS PETROLEUM
Address :
Lease : LIVINGSTON RIDGE
Well : BATTERY (PROD)
Sample Pt. : HEATER

Date : 05/23/91
Date Sampled : 05/22/91
Analysis No. : 1

	ANALYSIS		mg/L		* meq/L
1.	pH	6.7			
2.	H2S	4 PPM			
3.	Specific Gravity	1.070			
4.	Total Dissolved Solids		107667.8		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2		140		
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	134.0	HCO3	2.2
12.	Chloride	Cl	66456.0	Cl	1874.6
13.	Sulfate	SO4	3500.0	SO4	72.9
14.	Calcium	Ca	22960.0	Ca	1145.7
15.	Magnesium	Mg	4338.6	Mg	356.9
16.	Sodium (calculated)	Na	10278.3	Na	447.1
17.	Iron	Fe	0.9		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		75200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

1146	*Ca <----- *HCO3	2
	/------->	
357	*Mg -----> *SO4	73
	<---------/	
447	*Na -----> *Cl	1875

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.2	178
CaSO4	68.1	72.9	4961
CaCl2	55.5	1070.6	59409
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	356.9	16992
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	447.1	26127

REMARKS:
S. HOLLINGER / R. ALLISON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT NO. 5

PHILLIPS PETROLEUM COMPANY
LIVINGSTON RIDGE NO. 9W

AREA OF REVIEW

WELL NAME	LOCATION	DATE SPUDDED (ORIG. INTENT)	PRESENT TD ORIGINAL TD	SURFACE CASING SIZE	DEPTH	CEMENT	PRODUCTION CASING SIZE	DEPTH	CEMENT	PRODUCING PERFORATIONS (ZONE)
Livingston Ridge No. 1	660' FSL & 700' FWL Sec. 1, T-22-S, R-30-E Eddy County, NM	10-16-90 (Oil)	7603' 7655'	13-3/8"	475'	800 Sx	5-1/2" (TOC @ 3830' TS)	7655'	1100 Sx	6522'-7460' (Brushy Canyon)
Livingston Ridge No. 2	2240' FSL & 1200' FWL Sec. 1, T-22-S, R-30-E Eddy County, NM	12-11-90 (Oil)	7717' 7755'	13-3/8"	479'	800 Sx	5-1/2" (TOC @ Surface)	7755'	1800 Sx	6610'-7580' (Brushy Canyon)
Livingston Ridge No. 6	1980' FSL & 1980' FWL Sec. 1, T-22-S, R-30-E Eddy County, NM	10-14-91 (Oil)	7635' 7587'	13-3/8"	470'	800 Sx	5-1/2" (TOC @ 1630' TS)	7635'	1100 Sx	7396'-7536' (Brushy Canyon)
James "E" No. 11	660' FNL & 660' FWL Sec. 12, T-22-S, R-30-E Eddy County, NM	03-20-91 (Oil)	7626' 7660'	13-3/8"	468'	800 Sx	5-1/2" (TOC @ 2080' TS)	7660'	1050 Sx	7250'-7480' (Brushy Canyon)
James "E" No. 12	660' FNL & 1980' FWL Sec. 12, T-22-S, R-30-E Eddy County, NM	09-14-91 (Oil)	7750' 7750'	13-3/8"	478'	800 Sx	5-1/2" (TOC @ 3150' TS)	7750'	1100 Sx	7392'-7516' (Brushy Canyon)
James "A" No. 7	500' FSL & 660' FEL Sec. 2, T-22-S, R-30-E Eddy County, NM	12-11-89 (Oil)	7512' 7557'	13-3/8"	390'	800 Sx	5-1/2" (TOC @ 2430' TS)	7557'	950 Sx	6910'-7316' (Brushy Canyon)

Affidavit of Publication

No. 13897

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive days weeks on the same day as follows:

First Publication April 8, 1992

Second Publication

Third Publication

Fourth Publication

Gary D. Scott

Subscribed and sworn to before me this 8th day of April 19 92

Barbara Ann Bowen
Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1996

Copy of Publication

LEGAL NOTICE

Notice is hereby given of the application of Phillips Petroleum Company, 4001 Penbrook Street, Odessa, Texas 79762, Attn: L.M. Sanders, (915) 368-1488, to the Oil Conservation Division, New Mexico Energy and Mineral Department, for approval of the following disposal well authorization for the purpose of produced water disposal:
Well Name: Livingston Ridge Fed #9 Field: Cabin Lake (Delaware) Location: 990 feet from the south line and 1980 feet from the west line, Section 1, T-22-S, R-30-E, Eddy County, NM.
The disposal formation is Bell Canyon (Delaware) at a depth of 3854' -4538' below the surface of the ground.
Expected maximum injection rate is 2000 bbls water per day and expected maximum injection pressure is 500 pounds per square inch.
Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.
Published in the Artesia Daily Press; Artesia, N.M. April 8, 1992.

Legal 13897

Received

APR 10 1992

P.B.R. Regulatory Section

ATTACHMENT NO. 5
Notification

I hereby certify that a complete copy of this application was sent by certified mail to the below listed persons on April 14, 1992.

Signed: _____
Name: for L. M. Sanders
Title: Supervisor, Regulation & Proration
Date: April 14, 1992

Offset Operator:

Yates Petroleum Corporation
105 S. Fourth St.
Artesia, NM 88210

Surface Owner:

United States Department of the Interior
Bureau of Land Management
P. O. Box 1397
Roswell, NM 88201