GW - 100

GENERAL CORRESPONDENCE

YEAR(S):
2001 - 1992

Ford, Jack

[redacted]

From: Ford, Jack

Sent: Friday, April 27, 2001 3:53 PM

To: 'jamiller@slb.com'

Subject: Monitoring Reports

GW-100

John,

Is it possible to henceforth send monitoring reports to OCD in electronic format rather than hardcopies? If so, please inform me of that and I will look for electronic files in the future. Thanks for all your assistance.

Best Regards

Jack Ford

NMOCD

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 5/29/97,

or cash received on ______________ in the amount of $ 740.00

from D/S

for Farmington (Facility Name) GW-100 (DP No.)

Submitted by: ______________ Date: ______________

Submitted to ASD by: R. Anderson Date: 7/31/97

Received in ASD by: ______________ Date: ______________

Filing Fee X New Facility ____ Renewal X

Modification ____ Other ______________ (specify)

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment X or Annual Increment ____

[redacted]

FARMINGTON PETTY CASH
P.O. BOX 1650 PH. 505-325-5096
FARMINGTON, NM 87499

95-207/1022

DATE May 29, 1997

PAY TO THE ORDER OF NMED - Water Quality Management $ 740.00

Seven hundred and forty dollars and no/100 DOLLARS

Citizens Bank
500 W. Broadway
Farmington, NM 87401

FOR ______________

[redacted]

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 761-4525 Fax: (505) 761-4542

June 30, 1997

William J. Lemay, Director
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Dear Mr. Lemay:

This responds to your agency's public notices dated June 2, 1997, and June 4, 1997, regarding the discharge plan renewal applications for the two applicants described below:

(GW-100) - Dowell Schlumberger. Mr. Robert Helbing has submitted an application for renewal of the company's approved discharge plan for their Farmington facility located in Section 14, Township 29 North, Range 13 West, San Juan County, New Mexico. Discharges will be stored in a closed-top receptacle.

(GW-097) - BJ Services Company. Ms. Jo Ann Cobb has submitted an application for renewal of the company's approved discharge plan for their Farmington facility located in Sections 13 and 14, Township 29 North, Range 13 West, San Juan County, New Mexico. Approximately 600 gallons per day of waste water from the truck wash bay will be discharged into the City of Farmington Sewage Treatment System.

The U.S. Fish and Wildlife Service (Service) heartily approves of discharge plans that utilize closed top receptacles or tanks (i.e., Discharge Plan GW -100). The installation of berms around these structures is also recommended to help prevent any contamination of the surface waters of New Mexico in the event that a tank or a receptacle is accidentally ruptured.

The Service also has no objection to the renewal of Discharge Plan GW-097 for discharges to the City of Farmington Sewage Treatment System.

Thank you for the opportunity to review and comment on these discharge plan applications. If you have any questions about these comments, please contact Dennis Byrnes at (505) 761-4525.

Sincerely,

Jennifer Fowler-Propst
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Geographic Manager, New Mexico Ecosystems, U.S. Fish and Wildlife Service, Albuquerque, New Mexico
Senior Resident Agent, U.S. Fish and Wildlife Service, Albuquerque, New Mexico
Migratory Bird Office, U.S. Fish and Wildlife Service, Albuquerque, New Mexico

AFFIDAVIT OF PUBLICATION

No. 38069

STATE OF NEW MEXICO
County of San Juan:

DENISE H. HENSON being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Sunday, June 15, 1997;

and the cost of publication is: $62.29.

Denise H. Henson

On 6-18-97 DENISE H. HENSON appeared before me, whom I know personally to be the person who signed the above document.

Reese Nelson

My Commission Expires November 1, 2000

RECEIVED

JUN 20 1997

Environmental Bureau
Oil Conservation Division

COPY OF PUBLICATION

Legals

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-100) - Dowell Schlumberger, Mr. Robert Helbing, (505)-325-5096, P.O. Box 1650, Farmington, NM, 87401, has submitted a Discharge Plan Renewal Application for their Farmington facility located in the SE/4 SE/4, Sections 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 710mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan renewal application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of June, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/ William J. LeMay
WILLIAM J. LEMAY, Director

SEAL

Legal No. 38069 published in the Daily Times, Farmington, New Mexico, on Sunday, June 15, 1997.

Okay GWB 6-20-97

The Santa Fe New Mexican

Since 1849. We Read You.

RECEIVED
JUN 12 1997
Environmental Bureau
Oil Conservation Division

NM OIL DIVISION
ATTN: SALLY MARTIENZ
2040 S. PACHECO ST.
SANTA FE, NM 87505

AD NUMBER: 648944 ACCOUNT: 56689

LEGAL NO: 61854 P.O. #: 96199-002997

165 LINES ONCE at $ 66.00

Affidavits: 5.25

Tax: 4.45

Total: $ 75.70

RECEIVED
JUN 12 1997
CONSERVATION DIVISION

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #61854 a copy of which is hereto attached was published in said newspaper once each WEEK for ONE consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 9 day of JUNE 1997 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 9 day of JUNE A.D., 1997

Notary Laura E. Harding
Commission Expires 11/23/99

Okay to Pay
PWS 6-12-97

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico, 87505, Telephone (505) 827-7131:

(GW-100) - Dowell Schlumberger, Mr. Robert Helbing, (505)-325-5096, P.O. Box 1650, Farmington, NM, 87401, has submitted a Discharge Plan Renewal Application for their Farmington facility located in the SE/4 SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 710 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan renewal application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of June 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY,
Director
Legal #61854
Pub. June 9, 1997

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-100) -Dowell Schlumberger, Mr. Robert Helbing, (505)-325-5096, P.O. Box 1650, Farmington, NM, 87401, has submitted a Discharge Plan Renewal Application for their Farmington facility located in the SE/4 SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 710 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan renewal application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 2nd day of June, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

WJL/pws

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 10:20 AM	Date 6/2/97

Originating Party	Other Parties
Pat Sanchez - OCD	Rob Helbing - DS Farmington GW-100

Subject: Groundwater information to issue public notice. GW-100

Discussion

Mr. Helbing gave me the following information:
(1) Depth to groundwater approximatelly 25 feet.
(2) TDS of groundwater approximatelly 710 mg/L

Conclusions or Agreements

Told Mr. Helbing I would use (1) and (2) to issue public notice.

Distribution: File, Denny Faust.

Signed: Patricia W. Sanchez

Schlumberger Dowell

Dowell Schlumberger Incorporated
P.O. Box 1650
Farmington, New Mexico 87499
(505) 325-5096

May 22,1997

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Anderson:

Please find attached for your review Dowell Schlumberger's renewal application for Ground Water Discharge Plan GW-100 for our Farmington Facility located in SE¼ SE ¼, Section14, Township 29N, Range 13W, San Juan County, New Mexico. This was filed pursuant to the New Mexico Water Quality Control Commission Regulations in June of 1992 and was approved on August 19, 1992 for a period of five years. This approval will expire on August 19, 1997.

Should you have any questions concerning this renewal application please call (505) 325-5096.

Sincerely,

Ray Espinoza
HSE
Dowell Schlumberger

Robert Helbing
District Manager
Dowell Schlumberger

I. **TYPE:** Oil Field - Cementing ,Acidizing,Fracturing and Coil Tubiing Services

II. **Operator:** Dowell Schlumberger
Address: 3106 Bloomfield Hwy. Farmington, New Mexico
Contact Person: Robert Helbing **Phone** (505) 325-5096

III. Location: SE ¼ SE ¼ **Section** 14 **Township** 29N **Range** 13W
Submit large scale topographic map showing exact location.

IV. **Attach the name and address of the land owner of the facility site.**

V. **Attach a description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.**

VI. **Attach a description of all materials stored or used at the facility.**

VII. **Attach a description of present sources and quantities of effluent and waste solids.**

VIII. **Attach a description of current liquid and solid waste collection/ treatment/disposal procedures.**

IX. **Attach a description of proposed modifications to existing collection/ treatment/ disposal systems.**

X. **Attach a routine inspection, maintenance plan and reporting to ensure permit compliance.**

XI. **Attach a contingency plan for reporting and clean-up of spills or releases.**

XII. **Attach geological/ hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water.**

XIII. **Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/ or orders.**

XIV. **Certification**

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

Name: Robert Helbing **Title** District Manager
Ray Espinoza **Title:** HSE
Signature: _____ **Date** 5/29/97
Ray Espinoza **Date** 5/29/97

DISTRIBUTION: Original, 1 copy to Santa Fe w/ 1 copy to appropriate Division District Office.

I.

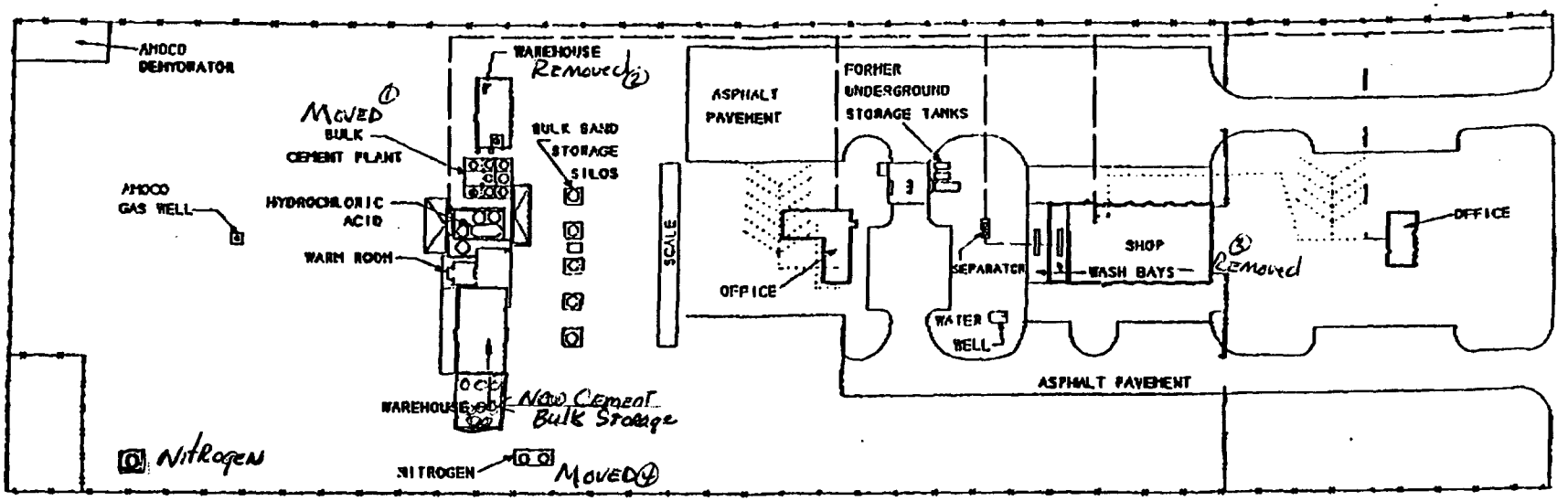
The Farmington Dowell Schlumberger facility provides special products and services for cementing, acidizing, fracturing, along with Coil tubing services of oil and gas wells.
Plant activities include repair and refurbishing of equipment related to those activities and storage of various chemicals that are mixed and pumped at the well site.

II.

Operator:	**Dowell Schlumberger**
Location:	**3106 Bloomfield Highway** **P.O. Box 1650** **Farrmington, New Mexico 87401**
Contact:	**Robert Helbing- District Manager**
Phone:	**(505) 325-5096**

III.

Location: SE ¼ Se ¼ Section 14 Township 29N Range 13W



N

0 50 100 Ft.
SCALE

EXPLANATION

- FENCE
- SEWER LINES
- UNUSED SEPTIC SYSTEMS

N

0 2000'
SCALE

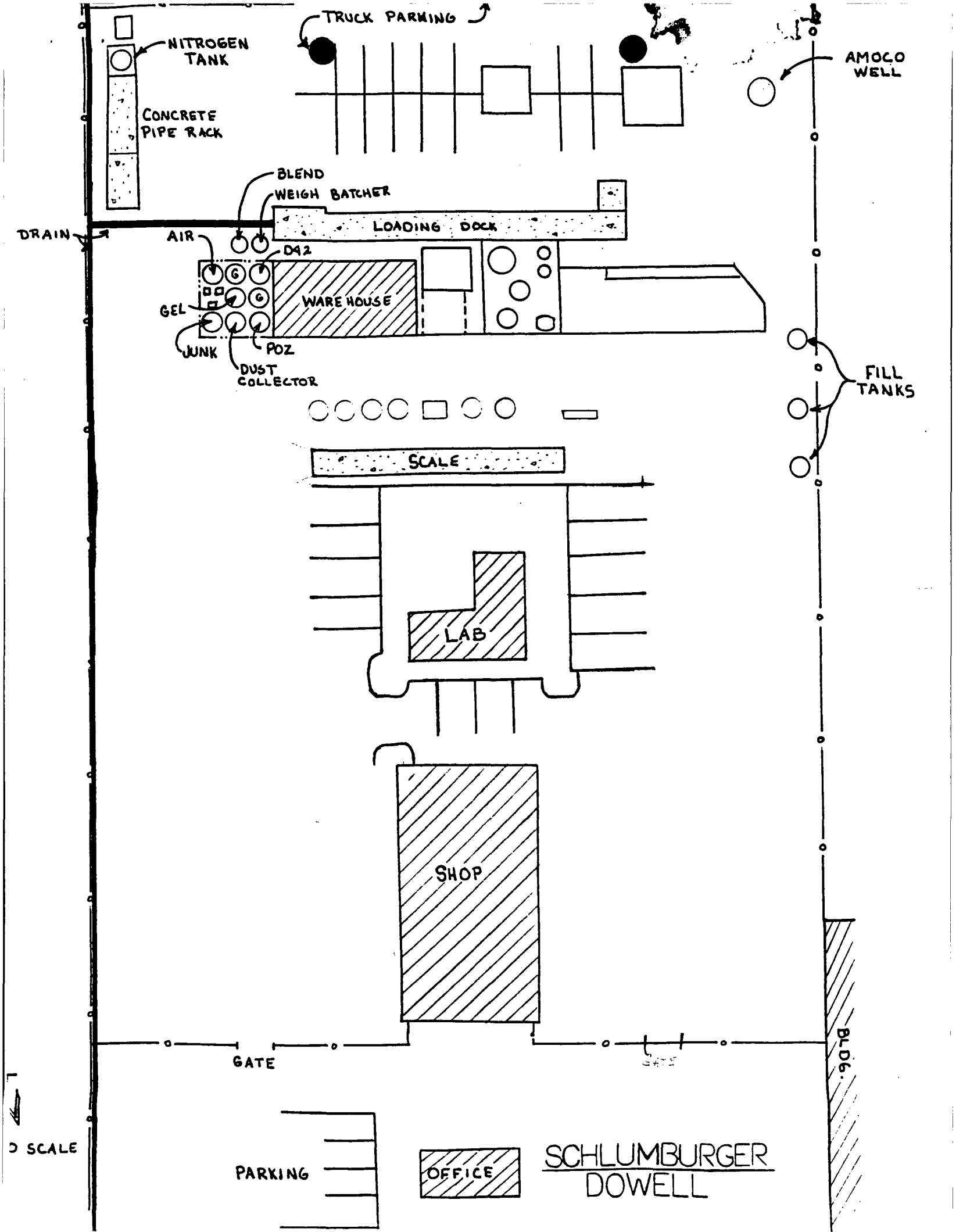
FIGURE 1

SITE PLAN
DOWELL SCHLUMBERGER INCORPORATED
FARMINGTON, NEW MEXICO FACILITY

REVISIONS	
Date	By
1-11-90	KBT

Western Water Consultants, Inc.

① Bulk Cement Plant - Moved to Westside
② Old Warehouse Removed
③ Wash Bays & Sumps Removed
④ Nitrogen Tank Moved to NW


TRUCK PARKING
NITROGEN TANK
CONCRETE PIPE RACK
AMOCO WELL
BLEND
WEIGH BATCHER
LOADING DOCK
DRAIN
AIR
D42
WAREHOUSE
GEL
JUNK
POZ
DUST COLLECTOR
FILL TANKS
SCALE
LAB
SHOP
GATE
BLDG.
PARKING
OFFICE
SCHLUMBURGER
DOWELL

IV.

Name and address of landowner.

SHORT FORM WARRANTY DEED—New Mexico Statutory Form—Approved by the State Comptroller as Standard Form Oct. 5th, 1947.

195

WARRANTY DEED

J. B. BROWN and VEDA B. BROWN, husband and wife, for consideration paid, grant to DOWELL INCORPORATED, a Delaware Corporation, the following described real estate in San Juan County, New Mexico:

A Tract of land in the Southeast Quarter of the Southeast Quarter (SE¼SE¼) of Section Fourteen (14), Township 29 North, Range 13 West, N.M.P.M., described as follows:

BEGINNING North 89°50' West 924 feet from the Southeast Corner of said Section 14, such point being in the center line of State Highway # 17;
THENCE North 89°50' West 396 feet along the center line of said Highway to the Southwest corner of the SE¼SE¼ of said Section 14;
THENCE North 1320 feet;
THENCE South 89°50' East 396 feet;
THENCE South 1320 feet to the point of beginning, containing approximately 12 acres.
TOGETHER with one share in the Farmington Echo Irrigation Ditch.
SUBJECT to right-of-way over the South 40 feet thereof for said Highway # 17.

V.

Facility Diagram and Discription

INTRODUCTION

SITE DESCRIPTION AND HISTORY

Dowell Schlumberger Incorporated owns and operates a facility located at 3106 Bloomfield Highway in the city of Farmington, San Juan County, New Mexico. Figure 1 shows the site plan of the facility. The 11.6 acre facility was built in 1958 as a base for oil-field service operations. Prior to development, the land was under cultivation as an apple orchard. There have being some changes made since 1992 when we applied for this application. The dry-chemical warehouse on the east side of the acid facility has being removed and the wash bays have being removed and all sumps have being removed or cemented in.

The facility includes two office buildings, a five-bay vehicle maintenance shop one dry chemical warehouse and bulk storage containers for sand, cement and hydrochloric acid. An above-ground toluene tank was formerly located approximately 150 feet north of the acid plant. An underground storage tank (UST) system, including gasoline and diesel tanks and associated piping and dispensers, were also present northeast of the shop. The facility has been modified over its lifetime primarily by additions to the offices, addition of the dry-chemical warehouse on the west side of acid plant, and changing the water and sewer system described below. No other major modifications are known.

The facility originally obtained its water from a 100-ft deep industrial well drill in 1959 northwest of the shop. Two septic systems handled sewage from the offices and wash room in the shop. Water from the wash bays was routed through an oil water seperator and then discharged into an open ditch along the southeast side of the property.

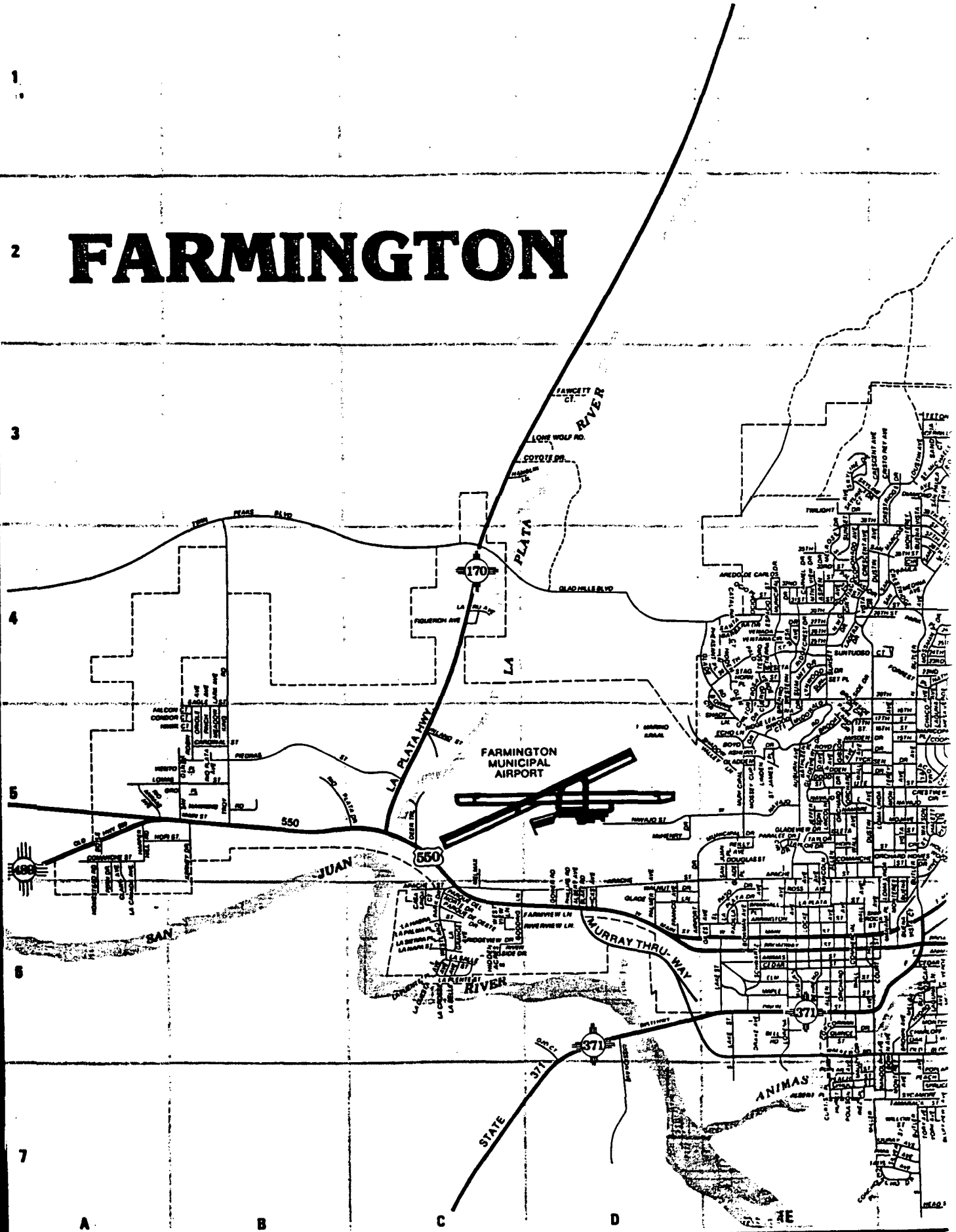
Municipal water and sewers were extended to the area in 1978. The DSI facility as well as other properties in the area are now connected to municipal utilities.. DSI quit using the water well and both septic systems in 1978, The well and the septic systems have been plugged in or removed in 1994 and 1995. Water and sewer lines not shown on the site plan are present beneath Bloomfield Highway adjacent to the south side of the facility.

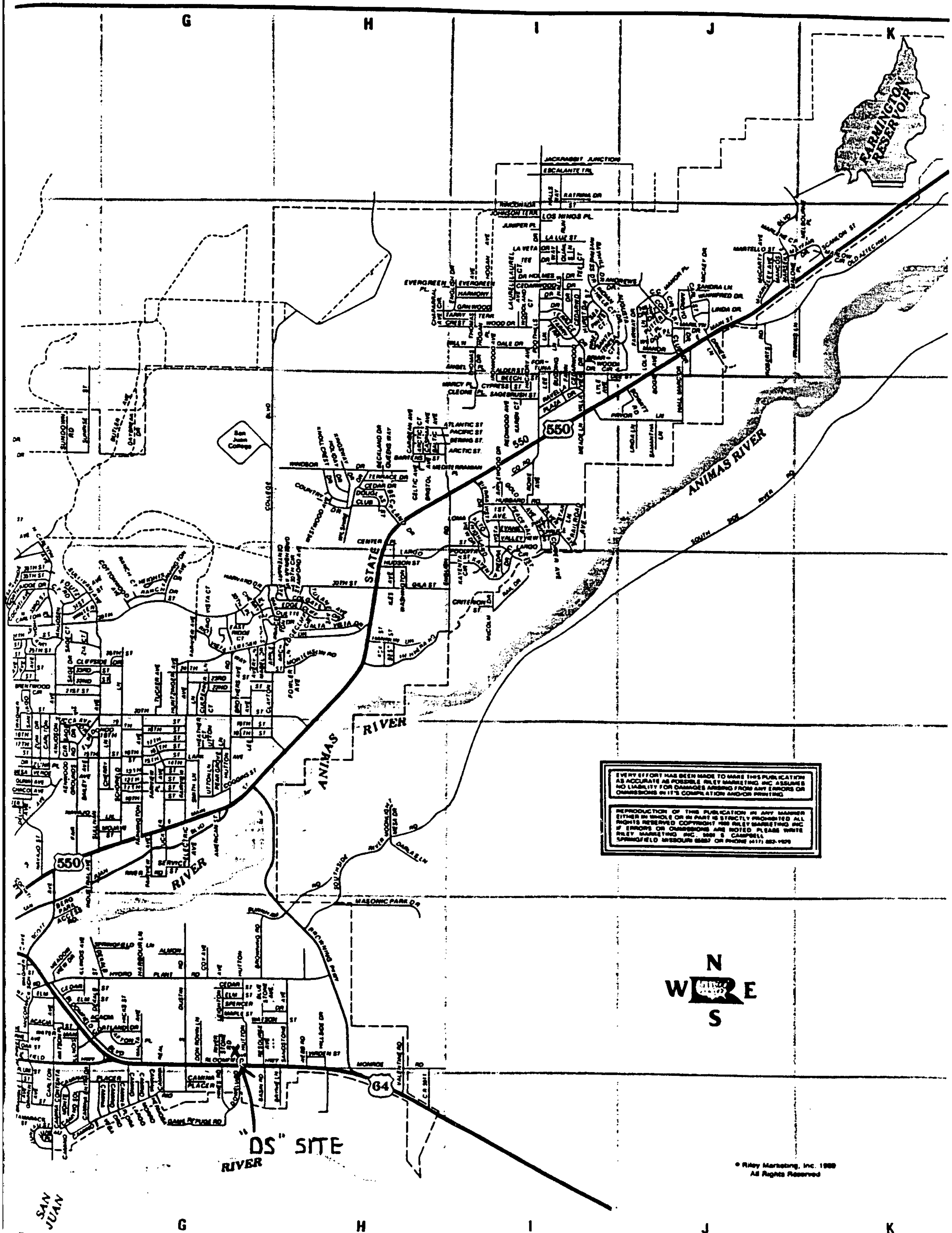
The DSI facility is located on land owned by DSI in an area zoned for commercial use. It is bordered on the east by several commercial properties , on the south by U.S. Highway 64 and a welding shop south of the highway, on the west by a construction company yard and on the north by a residential area containing modular and mobile homes.

Amoco Production Company operates a gas well on the northern part of DSI property and a Dehydration unit in northeast corner of the property. The well produces natural gas from the Dakota Sandstone formation from depths between 5768 and 5910 feet below the surface.

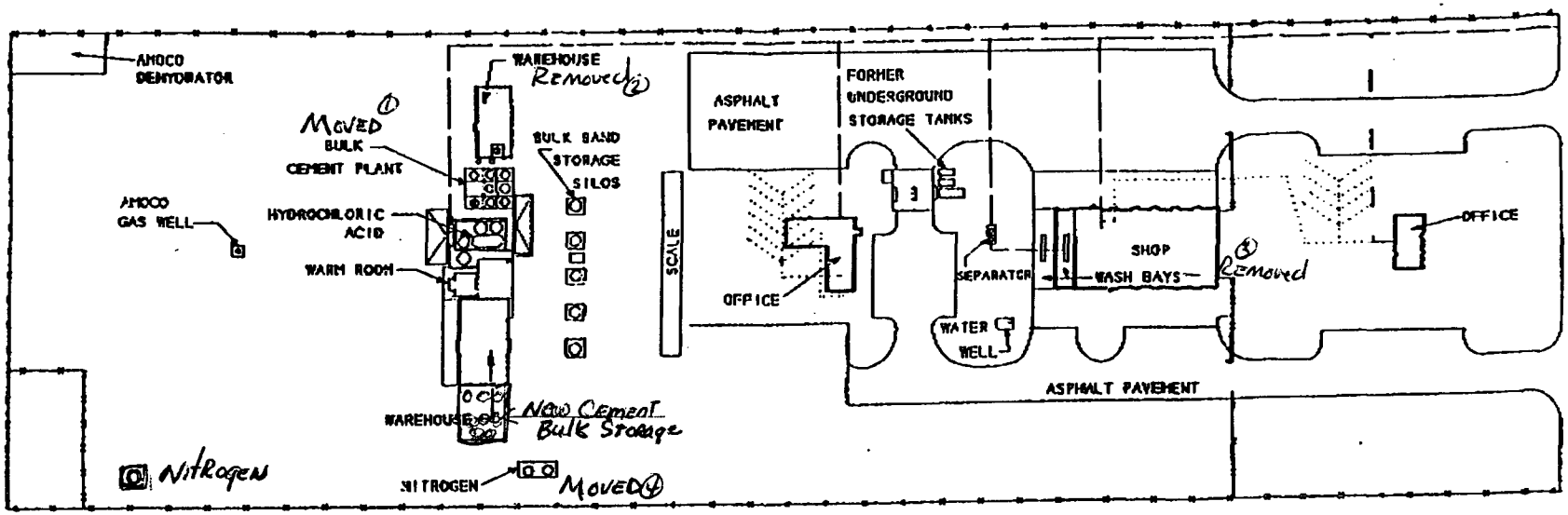
MAPS

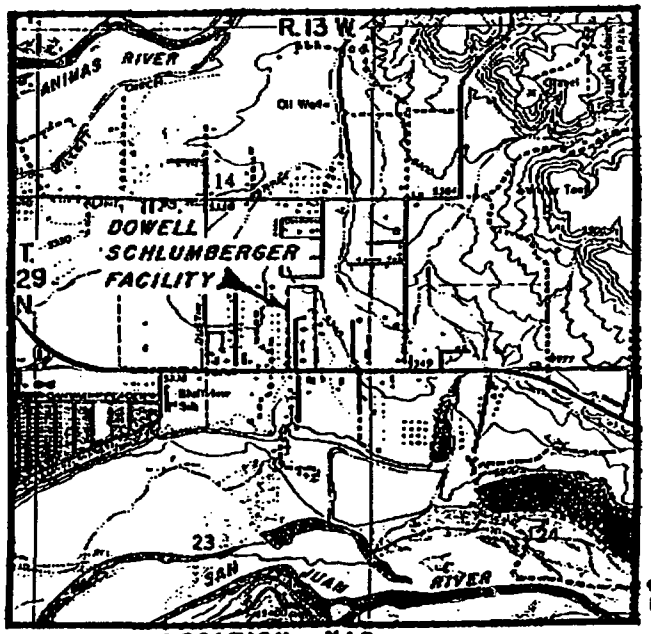
FARMINGTON




G
H
I
J
K
FARMINGTON RESERVOIR
ANIMAS RIVER
ANIMAS RIVER
RIVER
STATE
550
550
64
San Juan College
SOUTH SIDE RIVER RD
MASONIC PARK DR
N
W
E
S
"DS" SITE
RIVER
SAN JUAN
G
H
I
J
K

MAPS





N

0 50 100 Ft.
SCALE

EXPLANATION

FENCE
SEWER LINES
UNUSED SEPTIC SYSTEMS

N

0 2000'
SCALE

FIGURE 1

SITE PLAN
DOWELL SCHLUMBERGER INCORPORATED
FARMINGTON, NEW MEXICO FACILITY

REVISIONS	
Date	By
1-11-90	KBY

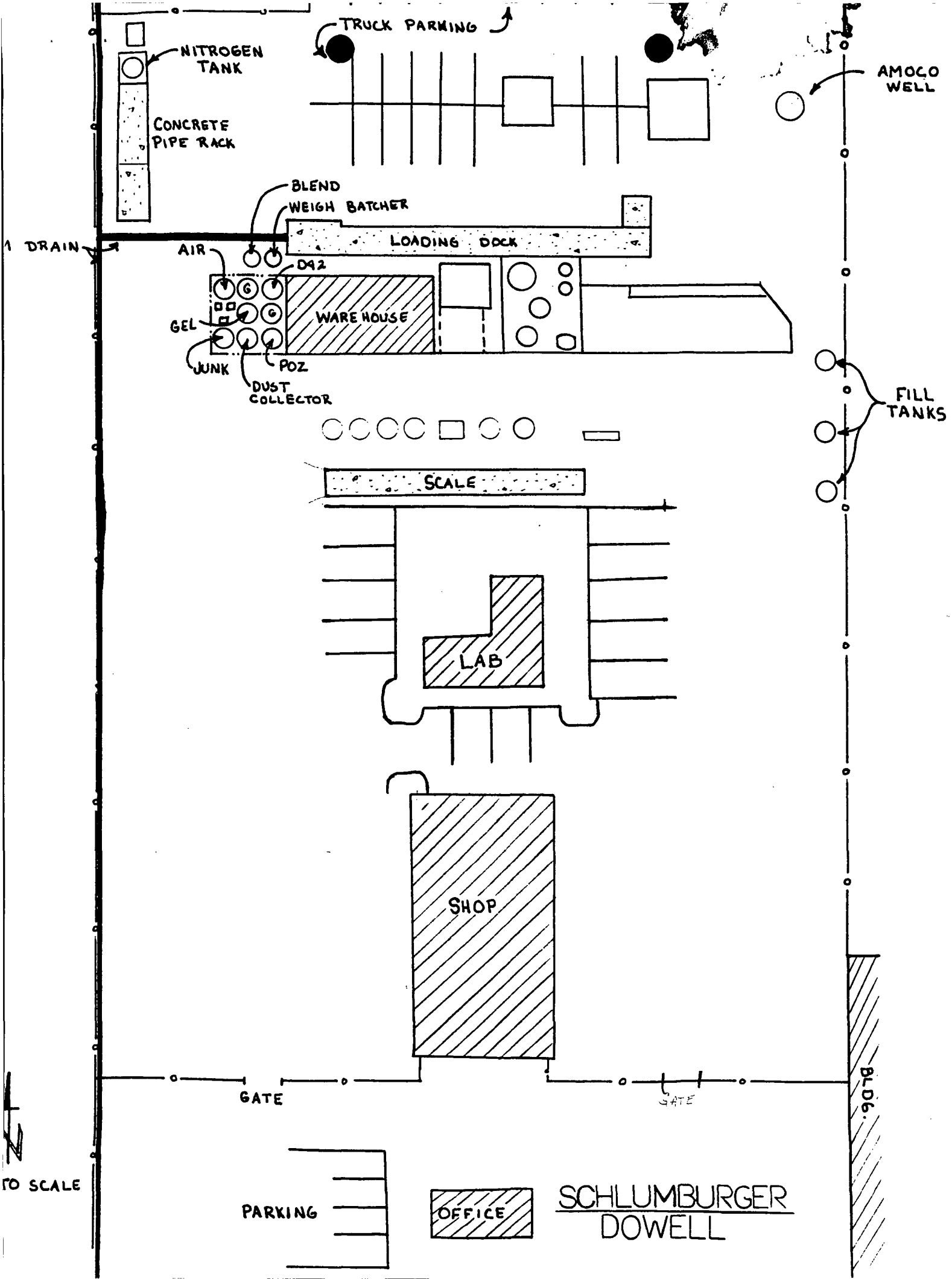
Western Water Consultants, Inc.

P.O. BOX 4426
LARAMIE, WY 82070
(307) 742-0031

P.O. BOX 3041
DURANGO, CO 81302
(303) 671-0613

Drawn By: JH | Checked By: KBY | Date: 2-6-89 | Scale: As Shown

① Bulk Cement Plant - Moved to Westside
② Old WAREHOUSE Removed
③ Wash Bays & Slimps Removed
④ Nitrogen Tank Moved to NW


TRUCK PARKING
NITROGEN TANK
CONCRETE PIPE RACK
AMOCO WELL
BLEND
WEIGH BATCHER
LOADING DOCK
DRAIN
AIR
D92
GEL
WARE HOUSE
JUNK
POZ
DUST COLLECTOR
FILL TANKS
SCALE
LAB
SHOP
GATE
GATE
BLDG.
N
TO SCALE
PARKING
OFFICE
SCHLUMBURGER
DOWELL

VI.

Materials stored at facility

MSD Sheets for current inventory at Farmington facility are available

Materials stored at Facility

J134	ENZYME BREAKER
J166	CORRISION INHIBITOR
A186	CORROSION INHIBITOR
L1	IRON STABILIZER
L401	STABILIZER
L10	CROSSLINKER
L55	CLAY STABILIZER
U74	DISPERSING AGENT
F75N	SURFACTANT
F78	FOAMER
F52	FOAMER
J321	FRICTION REDUCER
N2	NITROGEN
M7	ACTIVATOR
U28	GELLING AGENT
J218	BREAKER
J318	BREAKER AIS
S18	16/30 MESH SAND
S20	20/40 MESH SAND
D907	CEMENT
D60	FLUID LOSS
D29	CELLOPHANE
D112	FLUID LOSS
D44	GRANULATED SALT
D48	POZ
DDO	BENTONITE
D42	KOLITE
D53	GYPSEA
A166	SILICA
D47	ANTIFOAM
D65	TIC
U42	CHELATING AGENT
A26	XYLENE
S1	CALCIUM CHLORIDE
M117	KCL
M2	CAUSTIC SODA
M3	SODA ASH
L58	IRON STABILIZER
H036	HYDROCHOLORIC ACID

M275	**BIOCIDE**
D800	RETARDER
B71	RETARDER
A261	CORRISION INHIBITOR
J501	PROPNET
D156	LOW-TEMP
J473	COALBED METHANE
J475	EB-CLEAN
D600	GASBLOCK
W54	EMULSFYING
S123	LIQUID CU
J237	MATRIX

SHOP

MOTOR OIL
ANTIFREEZE
GEAR OIL
TRANSMISSION OIL
PACKING OIL
HYDRAULIC OIL

VII.

Description of present sources and quantities of effluent and waste solids

Waste type	General composition and source (solvents from small parts cleaning, oil filters etc.)	Volume per month	Major additives (e.g. degreaser fluids from truck washing
1. Waste lubrication and motor oils	motor oil, packing oil filter oil	100-200 gals	none
2. Packing oil	used oil from pumps	20-30 gals	none
3. Antifreeze	used antifreeze from truck radiators	5-20 gals	none
4. Used drums	empty chemical drums	5-20	none
5. Tires	worn and damaged	2-10	none
6. Cement	returned dry mixed cement	50-100sacks	none
7. Filters	used filters oil Fuel	6-8 ea 8-10	none

VIII.

Discription of current liquid and solid waste collection / treatment / disposal systerm

Discharge plan application

Oil field Service Facilities

Part VIII. Form Optional

Summary description of existing liquid and solids waste collection and disposal. For each waste type listed in part VII provide summary information about on site collection and disposal systems. Information on basic construction features, specific descriptions, and wastewater schematics should be provided as required in the guidelines. The use of this form is optional, but the summary information requested must be provided.

Waste Type	Tank (T) Drum (D)	Floor drain (F) Sump (S)	Pits Lined (L) unlined (U)	Onsite Injection Well	Leach Field	Offsite Disposal
Waste lubrication and motor oils	Oil is picked-up by Safety- Kleen and they recycle in burners					
2. Packing oil	Oil is picked up by Safety Kleen and recycled in burners					
3. Antifreeze	Recycled by Safety Kleen					
4. Used Drums	Drums are picked up by Laidlaw and disposed of					
5. Cement	cement that is dry mixed and not pumped is returned and unloaded into silo this cement is used for give away used for fence posts etc.					
6. Tires	damaged and worn out tires are taken by Western Tire and properly disposed at county land fill					
7. Filters	used oil and fuel filters are drained and Safety-kleen picks them up for recycle The paper elements are burned and the metal is recycled to make more filters					

IX.

Discription of proposed modifications to existing collection / treatment / disposal system.

IX.

PROPOSED MODIFICATIONS

1. New slurry mixing plant to be installed

   Target date for completion -----June 30, 1997

2. Drummed Chemical storage area to be remodified with revetment walls and covered

   Target date for completion-----June 30,1997

3. Facility no longer has a wash bay all sumps have being tested and removed or plugged

4. Sump tank at old test pit has been closed up, plugged in and no longer in use

SECTION 9

SURFACE IMPOUNDMENT CLOSURE GUIDELINES

OBJECTIVE

A surface impoundment or pit is intended to be operated in such a way that it does not pose a threat to groundwater contamination. Where possible DS is eliminating surface impoundments and disposing of nonhazardous wastewater by other means such as a sewer plant or saltwater disposal well.

When required, closure of a surface impoundment should demonstrate to regulatory agencies the extent, if any, to which the impoundment may have contaminated the groundwater. This can be done, in some cases, by showing analyses of the wastewater and soil at the bottom of the impoundment. If no hazardous materials remain, the government agency may agree to closure as a nonhazardous surface impoundment.

If significant levels of government-listed hazardous substances are found at the bottom of the impoundment, core samples may be required all the way to the water table and a monitor well installed to provide access to the uppermost aquifer for evaluation of groundwater quality. This usually requires supervision by a consulting hydrogeological firm and their independent evaluation.

The first effort by DS is to evaluate the surface impoundment in accordance with the following guidelines.

A. SAMPLING PROCEDURE

1. A sampling grid should be formulated for collecting both water and soil samples from an impoundment. Figure 1 is an example of a grid. Samples collected must be representative of the area evaluated.

2. Follow all Procedures for Environmental Samples listed in Chapter 8.

B. FILING OF CLOSURE PLAN WITH GOVERNMENT AGENCY

1. Based on the analyses done to define the quality of the wastewater and the underlying soil, use the flowchart in Figure 2 to decide if the surface impoundment is free of nonhazardous materials. The flowchart in Figure 2 is a minimum guideline; some governments require additional tests.

2. Obtain guidelines for preparing a closure plan from the appropriate government agency.

3. Prepare closure plan to include any additional studies to be done and submit to government agency for approval.

4. Obtain reply from government agency. It may impose additional requirements other than those DS has proposed and very likely will assign waste disposal codes for the disposal of contaminated water and soil.

C. DISPOSAL OF CONTAMINATED MATERIALS (as required by country law)

1. Follow all applicable regulations for Hazardous Waste (see Chapter 12).

2. Follow approved closure plan for classification of contaminated materials.

3. Identify appropriate disposal sites in the area and contact the authorities for any requirements they may have such as filing a Waste Profile Sheet for approval along with a sample of the material for which disposal is desired.

4. Arrange for an authorized transporter to take the waste material from the DS site to the disposal site.

5. Prepare manifests to accompany the shipments, one for each transport load.

6. Where excavation is involved, take samples of the boundaries of the excavated areas (sides and bottom) and have analyses done to determine the extent to which the contaminants have been removed.

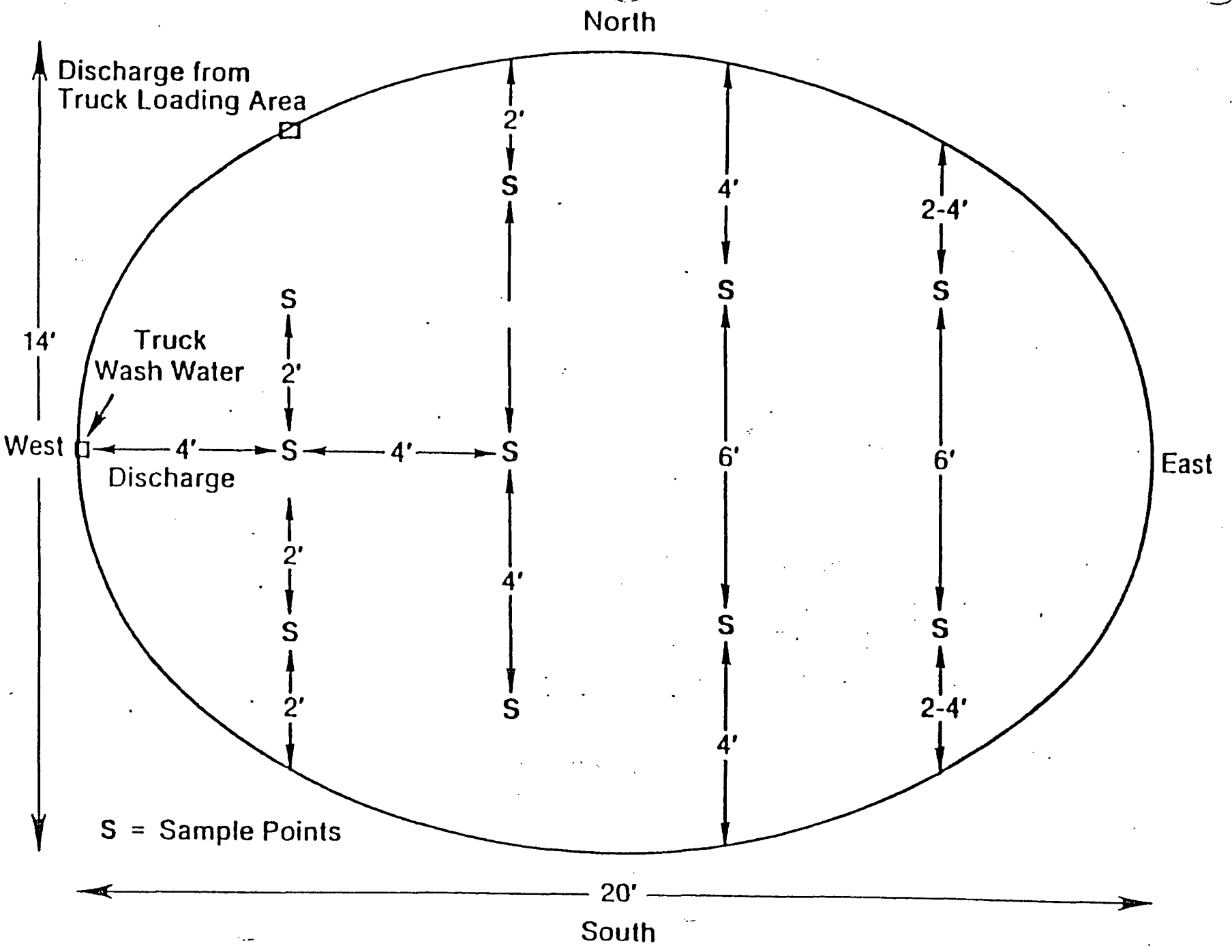
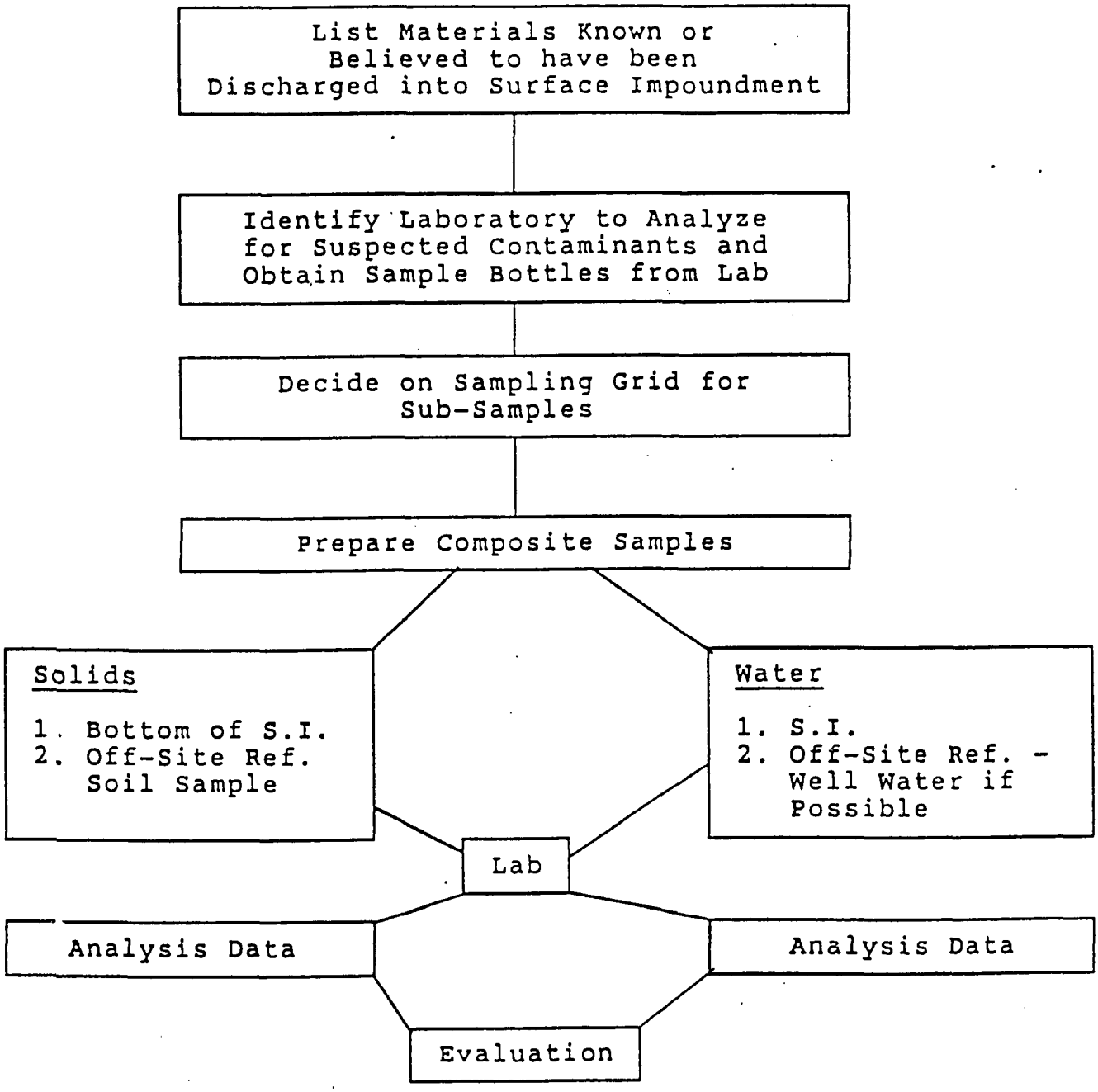


FIGURE 1 - EXAMPLE OF SAMPLING GRID

FIGURE 2

FLOW CHART FOR SURFACE IMPOUNDMENT EVALUATION



X.

Facility Inspection Audit

DOWELL SCHLUMBERGER
INCORPORATED

DATE: 5 / 20 / 1997
INSPECTOR: Bill Redmon / Ray Espinoza

FACILITY INSPECTION REPORT

PARKING AREA

		***
1. Is area maintained free of recent spills or discharges?	YES ✓ NO	
2. Are booms properly in place?	YES NO ✓	
3. Is the condition of the booms satisfactory?	YES NO ✓	
4. Is the security fence in good condition?	YES ✓ NO	

**A mark in this column requires corrective action

CORRECTIVE ACTION:

2.) Booms will be purchased and in designated areas by May 26, 97

COMMENTS:

CHEMICAL DRUM STORAGE

		***
1. Are drums segregated?	YES ✓ NO ____	
2. Are drums placed on pallets?	YES ____ NO ✓	
3. Are all drums labeled?	YES ✓ NO ____	
4. Are drums maintained in good condition, free of sever rust, bulges, dents, leaks?	YES ✓ NO ____	
5. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response?	YES ✓ NO ____	
6. Are empty containers sealed?	YES ✓ NO ____	
7. Is revetment in satisfactory condition?	YES ____ NO ✓	
8. Is area maintained free of spills, discharges and stormwater?	YES ✓ NO ____	

**A mark in this column requires corrective action

CORRECTIVE ACTION:

(2) All drums are on Concrete Slab

(7) New floor & revetment to be in place by June 30, 97

COMMENTS:

SLURRY PLANT

	***
1. Are all tanks labeled as to contents and hazard?	YES ✓ NO ____
2. Is visible condition of tanks satisfactory?	YES ✓ NO ____
3. Are piping, valves and pumps maintained in good condition free of rust, dents, leaks?	YES ✓ NO ____
4. Is revetment in satisfactory condition?	YES ____ NO ✓
5. Is truck loading area free from spills?	YES ✓ NO ____

**A mark in this column requires corrective action

CORRECTIVE ACTION

(4) New Slurry Mixing Plant to be constructed and in place by June 30, 1997

COMMENTS:

WAREHOUSE AND HEAD DOCK

***

1. Is area maintained free of spills, leaks and discharges? YES ✓ NO ____

2. Is there adequate aisle space between pallets to allow unobstructed movement for emergency response? YES ✓ NO ____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

OIL STORAGE/OIL SEPARATOR

		***
1. Is area maintained free of spills or discharges?		YES ✓ NO ____
2. Is oil skimmer maintained in good condition?		YES ✓ NO ____
3. Are used oil and fuel filters properly stored?		YES ✓ NO ____
4. Is revetment in satisfactory condition?		YES ✓ NO ____
5. Are tanks labeled as to contents and hazard?		YES ✓ NO ____
6. Is visible condition of tanks satisfactory?		YES ✓ NO ____
7. Are full waste containers removed from accumulation area?	NA	YES ____ NO ____
8. Are waste containers stored closed and properly labeled?		YES ____ NO ____
9. Are valves and pumps maintained free of rust, dents, leaks?		YES ✓ NO ____
10. Is sump pump working?	NA	YES ____ NO ____
11. Is 180 bbl tank currently adequate?	NA	YES ____ NO ____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

7-

COMMENTS:

7-8 All used oils are pickedup by Safety Kleen and incenerated

10 No Sump pump

SHOP/PAINT STORAGE

		***
1. Is area maintained free of spills or discharges?	YES ✓ NO ____	
2. Is the capacity of the sump system currently adequate?	N/A YES ____ NO ____	
3. Is Safety Kleen confined to the cleaning station?	YES ✓ NO ____	
4. Is paint thinner stored properly?	YES ✓ NO ____	
5. Are used batteries being stored properly, I.e. closed, covered and on pallets?	YES ✓ NO ____	
6. Are all containers properly labeled?	YES ✓ NO ____	

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

FUEL ISLAND

***

1. Are tanks labeled as to contents and hazard? YES____NO____

2. Is visible condition of tanks satisfactory? YES____NO____

3. Is revetment in satisfactory condition and maintained free of spills and stormwater? YES____NO____

4. Is fueling area maintained free of spills? YES____NO____

5. Is yard area around fueling facility maintained in good condition and free of evidence of spills or discharges? YES____NO____

NA
NO FUEL ISLAND

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS: NO Fuel Island at facility

EMERGENCY RESPONSE EQUIPMENT

***

Are the following items in working order?

1. Absorbent booms	YES ____	NO ✓
2. Absorbent pads	YES ✓	NO ____
3. Full face respirators	YES ✓	NO ____
4. S C B A' s	YES ✓	NO ____
5. First aid kit	YES ✓	NO ____
6. 3 gallon sprayer	YES ✓	NO ____
7. Rubber Gloves	YES ✓	NO ____
8. Disposable gloves	YES ✓	NO ____
9. Chemical suits	YES ✓	NO ____
10. Disposable suits	YES ✓	NO ____
11. Disposable boots	YES ✓	NO ____
12. Flash lights	YES ✓	NO ____
13. Shovels	YES ✓	NO ____
14. Rakes	YES ✓	NO ____
15. Communication equipment	YES ✓	NO ____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

(1) Booms will be purchased and in place by May 26, 97

(6)

ADDITIONAL ACTIONS OR COMMENTS

CORRECTIVE ACTION:

COMMENTS:

XI.

Contingency Plan for reporting and clean-up of spills or releases

Emergency Contact Phone List:

[illegible]	[illegible]	[illegible]	[illegible]
Maurice Dijols	281-285-8771	713-781-0114	713-202-7629 (M)
Frank Osborn	281-285-8421	281-242-2231	713-304-8716 (M)
Rod Kuntz	281-285-8773	281-344-9369	713-628-5140 (M)
Ken Turner	281-285-8775	281-360-9332	713-818-3296 (M)
Tony Accardo	281-285-8490	281-550-6668	713-765-0295 (P)
Neil Campbell	281-285-8495	281-277-6505	713-206-4869 (M)
Elani Gray Brown	281-285-8496	281-265-5566	713-828-3224 (M)
Debbie Carrillo	281-285-8492	----	----

Preliminary Incident Report:

The following information must be included in the e-mail:

Date and Time of incident:_____
District and Location Code:_____
Type of incident: (identify one) Motor Vehicle, Injury, Environmental, or Loss_____
Potential severity of incident: (identify one) Catastrophic, Major, or Serious_____
Name(s) of person(s) involved in the incident, including third parties:_____
Name(s) of supervisor(s): _____
Client name and wellsite location if applicable:_____
Time/date drug & alcohol test performed:_____

For Motor Vehicle Incidents:

CADEC installed?_____
CADEC working?_____
Type of vehicle(s) involved:_____
Did our driver receive a citation?_____
Estimated incident cost:_____

For Injury Incidents:

Estimated number of days lost:_____
OSHA reportable?_____
First Aid?_____

Brief description of incident:_____
_____
_____
_____
_____
_____

Name of manager leading investigation:_____

Schlumberger

Interoffice Correspondence

TO: All W&T & Dowell Locations

DATE: 25 November, 1996

FROM: R. Kuntz

cc: F. Osborn
M. Dijols
Area Mgrs.
Division Mgrs.
Department Heads
Div./Area HSE Mgrs.

RE: **Incident Notification Procedures**
(Revised - Supercedes all
Previous Notifications)

The reporting of any Schlumberger incidents involving **explosives or radioactive materials** should be managed via the procedures outlined in the Explosives or Radiation Field Control Manuals. The notification procedures shown below are required for all other incidents.

Environmental incidents involving spills/discharges/releases must be called in to and managed via the **Schlumberger Emergency Response system. The new number is:**

281-595-3518

1) Fatality* or hospitalization of 3 or more employees/contractors*. 2) Involvement/interest by news media in any incident (including environmental) 3) any other **Catastrophic** Incident.	**Immediate** phone call to: **Dowell:** Area Manager**, Kuntz, Osborn, (Turner, Accardo if Kuntz not available). **W&T:** Division Manager**, Kuntz, Dijols, (Turner, Accardo if Kuntz not available).	**Within 2 hrs,** the **Preliminary Incident Report** must be e-mailed to all persons on the **Emergency Contact Phone List (except E. Brown)**
1) Any vehicle rollover 2) Any incident with the potential to become a **Major** (either MVA or LTI)	**Within 2 hrs,** phone call to: Area/Division Manager**, Kuntz, (Turner, Accardo if Kuntz not available).	**Within 12 hrs, the Preliminary Incident Report** must be e-mailed to all persons on the **Emergency Contact Phone List. (except E. Brown)**
Serious MVA or LTI	**Within 24 hrs,** phone call to: Area/Division Manager**,	**Within 24 hrs, the Preliminary Incident Report** must be e-mailed to all persons on the **Emergency Contact Phone List. (except E. Brown)**
Environmental Incident	**Call the E/R number immediately, then call:** Area/Division Manager**,	**Within 24 hrs, the Preliminary Incident Report** must be e-mailed to all persons on the **Emergency Contact Phone List.**

* These two situations require NAM HSE to contact OSHA within 8 hrs.
** Area/Division Manager is responsible for notification of appropriate Area/Division Operations and HSE personnel

SECTION 4

SPILL PREVENTION AND CONTROL

A. GUIDELINES FOR DS SPILL CONTAINMENT AND BEST MANAGEMENT PRACTICES PROGRAM

The objectives of these guidelines is to contain and control unexpected discharges of substances which could damage public or private property or adversely affect the environment, air, ground, and surface or subsurface waters, including public-owned treatment works.

1. Diking will be provided for secondary containment ofhazardous substances. All diking and other containment devices shall be consistent with sound engineering practices, loss prevention principles and environmental regulations.

2. New facility construction and major facility upgrading shall be designed so that unexpected discharges of hazardous products will be contained on DS property and measures will be taken to prevent it from entering or adversely affecting the environment. Existing facilities will be evaluated and controls devised to contain unexpected discharges.

3. With continued emphasis by government agencies to regulate the management of all phases of hazardous substances and wastes, it is imperative that DS secure proper permits prior to beginning construction of new facilities or making changes to existing facilities. Location facilities with existing environmental permits, or those that have not been required to have permits in the past, may be required to obtain permits prior to changes or modifications.

4. Strong emphasis should be put on drainage, water tables, future growth, sewer availability and capability, and low-profile locations for future siting of DS locations.

5. Written procedures will be developed to document a Spill Prevention Control and Countermeasures (SPCC) and Best Management Practices Program. Records of preventive maintenance, housekeeping and training practices must be kept current at all times.

B. SPILL CONTROL - STORAGE AND DRAINAGE RECOMMENDATION

1. Bulk Liquid Chemical Storage and Mixing Areas (HCl, HF, P121, $ZnBr_2$), diesel fuel, methanol and all other liquid bulk stored chemicals or additives).

SECTION 4

SPILL PREVENTION AND CONTROL

A. GUIDELINES FOR DS SPILL CONTAINMENT AND BEST MANAGEMENT PRACTICES PROGRAM

The objectives of these guidelines is to contain and control unexpected discharges of substances which could damage public or private property or adversely affect the environment, air, ground, and surface or subsurface waters, including public-owned treatment works.

1. Diking will be provided for secondary containment ofhazardous substances. All diking and other containment devices shall be consistent with sound engineering practices, loss prevention principles and environmental regulations.

2. New facility construction and major facility upgrading shall be designed so that unexpected discharges of hazardous products will be contained on DS property and measures will be taken to prevent it from entering or adversely affecting the environment. Existing facilities will be evaluated and controls devised to contain unexpected discharges.

3. With continued emphasis by government agencies to regulate the management of all phases of hazardous substances and wastes, it is imperative that DS secure proper permits prior to beginning construction of new facilities or making changes to existing facilities. Location facilities with existing environmental permits, or those that have not been required to have permits in the past, may be required to obtain permits prior to changes or modifications.

4. Strong emphasis should be put on drainage, water tables, future growth, sewer availability and capability, and low-profile locations for future siting of DS locations.

5. Written procedures will be developed to document a Spill Prevention Control and Countermeasures (SPCC) and Best Management Practices Program. Records of preventive maintenance, housekeeping and training practices must be kept current at all times.

B. SPILL CONTROL - STORAGE AND DRAINAGE RECOMMENDATION

1. Bulk Liquid Chemical Storage and Mixing Areas (HCl, HF, P121, $ZnBr_2$), diesel fuel, methanol and all other liquid bulk stored chemicals or additives).

(a) All bulk liquid chemical storage and hazardous waste tanks shall have a containment system to prevent losses from entering groundwater, soil, navigable waters and sewer systems, or otherwise creating an environmental or a personnel hazard.

(b) Various types of containment systems have been used in DS. A satisfactory tank-farm containment system will meet the following design criteria.

(1) Volume of containment must be 110% of the largest container in the containment not including the volume displaced by tanks and other equipment in the containment.

(2) Dike and interior floor must be liquid tight and designed to withstand a full hydrostatic head of the fluid being contained. Materials of construction will have a permeability of 1×10^{-7} centimeters/second or less, which is about 1/10 of an inch per year.

(3) Drainage of all fluids from containments must be routed in such a manner to allow for proper testing and treatment prior to any discharge. There will be no openings in the containment system. Annual hydrostatic testing of the containment system will be conducted and documented.

(c) Bulk chemical tanks requiring fume scrubbers such as HF, HCl or VERTAN* 675 may generate hazardous wastes as a result of the scrubber action. These wastes may be subject to hazardous waste regulations (see No. 7 below).

2. Drummed Product Storage

(a) Drummed chemicals shall be stored in an area designed to contain a spill that may result from the rupture of a container.

(b) Sloped and/or curbed concrete slabs provide the best type of containment for storage of these containers. A slope of a minimum of 1% should be incorporated in the design of these slabs.

(c) Consideration must be given to safe and efficient handling of the containers, collection and removal of spills, and control of rainwater or snow melt runoff.

* Trademark or Service Mark of Dowell Schlumberger

(d) Spills or stormwater runoff shall never be allowed to drain directly into sewer systems or lagoons.

3. Tank Truck/Car Loading and Unloading Facilities

(a) These areas will be designed with a spill containment area for treatment or disposal.

(b) Consideration must be given to containment size (minimum 110% of largest truck). Design will minimize the amount of stormwater entering the containment.

(c) Diversionary systems will be provided if needed to prevent spills from entering sewer system lines.

4. Dry Bulk Product Storage and Handling

(a) Driveways and truck traffic ways must be paved to prevent "fugitive" dust.

(b) Properly designed and operating dust collector is required on any dry product storage or handling system that is loaded or unloaded pneumatically. If excessive dust is generated by mechanical handling equipment, dust collectors on the system will also be necessary. Minimum air flow rate to bag surface area is a 3:1 ratio cu ft/sq ft.

(c) All dry products bagged or in bulk will be handled so that "fugitive" dust does not leave DS property.

5. General Facility Drainage

(a) The yard drainage of a new or modified location facility will be designed to prevent stormwater or chemical spills from directly entering a sewer system or from affecting permanent structures on the facility.

(b) The exit point or points of runoff will be noted on plot plans so that the operator of the facility can develop emergency spill containment plans.

6. Used Motor Oils and Solvents

a) Used oil and used chlorinated solvents must be provided with and stored in separate containers.

(b) Used oils will be recycled where feasible by selling or transferring ownership to a government-approved oil reclaimer.

(c) Used chlorinated solvents.

(1) Consider local or regional system to reclaim solvent if practical.

(2) Consider location reclamation system if applicable.

(3) Transfer ownership to government-approved solvent reclaimer.

7. Wastewater Handling and Disposal

(a) Acid fume scrubber water and acid transport rinse water.

(1) Must never be reused for acid dilution; such reuse is a violation of the DS Quality Assurance Policy.

(2) If excess is generated, it may be completely neutralized and disposed of as a nonhazardous waste.

(b) Truck wash wastewater.

(1) Recycle waters only for reuse in truck wash to remove oil and solids.

(2) This water (even after treatment) cannot be used for acid dilution; such reuse is a violation of DS Quality Assurance Policy.

(3) If excess is generated, after proper treatment, it may be sent to a sanitary sewer system (if allowed by local regulations) or saltwater disposal well.

8. Stormwater

(a) Minimize uncontaminated stormwater entrance into sewer or lagoon.

(b) Preference will be given to use public sewer systems for disposal of process area stormwater.

(c) Cover (roof) all areas having drains connected to sewer system or lagoon or use rain stop valves.

(d) Design entire facility to direct nonprocess area stormwater away from sewer drains, separator tanks and lagoons.

(e) Stormwater collected inside diked areas and other chemical process areas will be tested prior to discharge. If contaminated, it will be disposed of in accordance with government permits or as a waste.

(f) Stormwater must be handled in accordance with all government regulations. Permits may be required for discharge to sewer or surface. Contaminated stormwater cannot be discharged to a ditch except as allowed in applicable government permits.

9. General

(a) Avoid the necessity for surface discharge permits for wastewater by using the public sewer system (if allowed by local regulations) or other waste disposal method.

(b) Emphasize recycle/reuse of wastewaters and other potential wastes; however, these must never be used in products or services.

(c) Avoid use of lagoons or ponds for wastewater storage. These may require permits.

(d) Review adequacy of pretreatment system, neutralization beds, oil and mud separators, etc. These must be inspected weekly for proper functioning; the inspection must be documented.

(e) Plan a designated empty drum storage area out of sight. Used drums must have bungs in place, and stored in a manner that residual chemicals cannot contaminate the ground or stormwater runoff.

XII.

Geological/Hydrological evidence

XII

HYDROGEOLOGY

THE DOWELL SCHLUMBERGER FACILITY IS LOCATED ON THE NORTH FLANK OF THE SAN JUAN STRUCTURAL BASIN (FASSETT 1964). BED ROCK IN THE AREA DIPS TO THE SOUTH AT APPROXIMATELY 1 DEGREE (100 FT./MILE). THE UPPERMOST BEDROCK COMPRISES APPROXIMATELY 900 FEET OF SANDSTONE, SILTSTONE AND SHALE OF THE CRETACEOUS KIRTLAND FORMATION.

(PETROLEUM INFORMATION, 1981)

XIII.

Legend
Facility offsite/ Disposal

Facility Legend

Facility Legend

USED MOTOR OIL

CEMENT BLOWDOWN TANK

BIN FOR SAND STORAGE

SAFETY KLEEN DRUMS

USED DRUM STORAGE AREA

USED MOTOR OIL

USED OIL AND FUEL FILTERS DRUM

OFFSITE DISPOSAL LEGEND

1. **SOLVENT IS SUPPLIED AND RECLAIMED ONCE USED BY SAFETY-KLEEN**

2. **USED MOTOR OIL IS PICKED UP BY SAFETY KLEEN AND INCENERATED**

3. **USED OIL AND FUEL FILTERS ARE PICKED UP BY SAFETY-KLEEN AND THE INSIDE MATERIAL IS INCENERATED AND TH METAL IS RECYCLED**

4. **UNUSED CEMENT IS RETURNED AND STORED IN TANK AND USED FOR SMALL CONCRETE WORK OR GIVEN AWAY**

5. **CITY SEWER: NOT DISCHARGING INTO CITY SEWER (OTHER THAN DOMESTIC SEWAGE)**

6. **USED DRUMS ARE CURRENTLY BEING PICKED UP AND RECONDITIONED BY LAIDLAW**

7. **FIVE GALLON CANS ARE DESTROYED AND DISPOSED OF SO THEY CAN NOT BE REUSED**

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

May 16, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-384

Mr. John Miller
Remediation Manager
Schlumberger Oilfield Services
300 Schlumberger Drive
Sugar Land, TX 77478

RE: Discharge Plan GW-100 Renewal
Dowell Schlumberger (DS) Farmington Facility
San Juan County, New Mexico

Dear Mr. Miller:

On August 19, 1992, the groundwater discharge plan, GW-100, for the **DS - Farmington Facility** located in SE/4 SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on August 19, 1997.**

On **February 17, 1997**, DS was notified of the upcoming expiration. If the discharge plan renewal is not received and approved by the OCD by **August 19, 1997**, the facility will be required to cease operations until the OCD receives and approves the discharge plan renewal.

If the facility continues to have potential or actual effluent or leachate discharges and DS wishes to continue operation, DS must renew the discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several months. Please indicate whether DS has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

Please submit the original and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. Note that the completed and signed application form must be submitted with the discharge plan renewal request.

The discharge plan renewal application for the DS Farmington facility is subject to the WQCC Regulations 3114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus a flat fee as outlined in WQCC Regulation 3114 for Service Companies.

The (50) dollar filing fee is to be submitted with discharge plan renewal application and is nonrefundable. The flat fee in the amount of $690 for an approved discharge plan renewal may be paid in a single payment due at the time of approval, or in equal annual installments of $138 over the duration of the discharge plan.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

If DS no longer has any actual or potential discharges a discharge plan is not needed, please notify this office and include a closure plan for the facility pursuant to WQCC Section 3107 A.11.

If DS has any questions regarding this matter, please do not hesitate to contact Pat Sanchez at (505) 827-7156.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/pws

c: Aztec OCD District Office

P 410 431 384

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to DS - Farmington - Miller.	
Street & Number GW-100, 3 Mo.	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date GW-100, 3 Mo Notice.	

PS Form 3800, April 1995

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

February 17, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-766

Mr. John Miller
Remediation Manager
Schlumberger Oilfield Services
300 Schlumberger Drive
Sugar Land, TX 77478

RE: Discharge Plan GW-100 Renewal
Dowell Schlumberger (DS) Farmington Facility
San Juan County, New Mexico

Dear Mr. Miller:

On August 19, 1992, the groundwater discharge plan, GW-100, for the **DS - Farmington Facility** located in SE/4 SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on August 19, 1997.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before April 19, 1997), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether DS has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **DS - Farmington Facility** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $50 plus a flat fee of $690 for Oilfield Services Companies. The $50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

Mr. John R [illegible] ler
Dowell Schlumberger, GW-100
6 Month Renewal Notice
February 17, 1997
Page 2

Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.**(Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at **www.emnrd.state.nm.us/ocd/**)

If Dowell Schlumberger, Inc. no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If Dowell Schlumberger, Inc. has any questions, please do not hesitate to contact Pat Sanchez at (505) 827-7156.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/pws

enclosed: 20 NMAC 6.2 "WQCC Regulations", Discharge Plan Guidelines, Discharge Plan Application Form.

c: Mr. Denny Foust

P 288 258 766

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to DS - Farmington Carlos Mr. Miller.	
Street & Number 6 Month Renewal Notice.	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form 3800, April 1995

Schlumberger Oilfield Services

Oilfield Services Shared Resources

John A. Miller
Remediation Manager

— See Brown Accordion File —

November 28, 1994

Mr. Roger Anderson
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504

Re: Closure Report for the Collection Systems at the Dowell Schlumberger Incorporated Facility in Farmington, New Mexico

Dear Mr. Anderson:

Enclosed for your review is the Closure Report for the Collection Systems at the Dowell Schlumberger Incorporated (Dowell) facility in Farmington, New Mexico.

By copy of this letter, one copy of the report is being submitted to the OCD Aztec office.

If you have questions, please call me at 713-275-8498.

Sincerely,

John A. Miller

JAM:lb

Enclosures

cc: Mr. Denny Foust (W/Enclosure)
Oil Conservation Division
1000 Rio Brazos
Aztec, NM 87410

WWC, Laramie

P.O. Box 2727, Houston, Texas 77252-2727
300 Schlumberger Drive, Sugar Land, Texas 77478
(713) 275-8498 (713) 275-8526 (fax)

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

July 7, 1994

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-139

Mr. John A. Miller
Dowell Schlumberger Inc.
P.O. Box 4378
Houston, Texas 87504

RE: Collection System Closure
Farmington Service Facility

Dear Mr. Miller:

The Oil Conservation Division (OCD) has reviewed your " Closure Plan For The Collection Systems At The Dowell Schlumberger Incorporated Facility Farmington, New Mexico" dated April 7, 1994. The closure plan is approved with the following conditions:

1. Dowell Schlumberger (DS) will notify the OCD Aztec District office at least 72 hours in advance of all activities such that the OCD may have an opportunity to witness the events.

2. DS will submit a final closure report within 60 days following final actions.

Please be advised that OCD approval of this plan does not relieve Dowell Schlumberger of liability should closure activities determine that contamination exists which is beyond the scope of the plan or if the closure activities fail to adequately remove or remediate the contamination. Further, OCD approval does not relieve DS of liability should any remaining contaminants pose a threat to groundwater.

If you have any questions, please call me at (505) 827-5812.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: Denny Foust, OCD Aztec Office

Schlumberger Dowell

Dowell Schlumberger Incorporated
P.O. Box 4378
Houston, Texas 77210-4378
(713) 275-8400

—Sec Brown
accordion File—

April 7, 1994

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 2088
Sante Fe, NM 87504

RE: CLOSURE PLAN FOR THE COLLECTION SYSTEMS AT THE DOWELL SCHLUMBERGER INCORPORATED FACILITY FARMINGTON, NEW MEXICO

Dear Mr. Anderson:

Enclosed for your review and approval is a closure plan for the collection systems at the Dowell Schlumberger Incorporated (Dowell) facility in Farmington, New Mexico. This plan is in accordance with Dowell's Discharge Plan GW-100 approved by the NMOCD in August 1992.

By copy of this letter, one copy of the plan is being submitted to the OCD Aztec office.

We wish to proceed with closure at the earliest possible date and would therefore appreciated your timely review. Please do not hesitate to contact me at (713)275-8498 if you have any questions.

Sincerely,

John A. Miller
Environmental Remediation Manager

Enclosures

cc: Mr. Frank Chavez (with encl.)
Oil Conservation Division
1000 Rio Brazos
Aztec, NM 87410

WWC, Laramie

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 12/29/92,
or cash received on 1/8/93 in the amount of $ 1380.00
from Dowell Schlumberger Incorporated
for Farmington Service Facility (Facility Name) GW (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 1/8/93
Received in ASD by: Angie Allre Date: 1/8/93

Filing Fee ___ New Facility X Renewal ___
Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.
Full Payment X or Annual Increment ___

Dowell Schlumberger Incorporated
P. O. BOX 4178
HOUSTON, TEXAS 77210

DS

DATE 12/29/92 CHECK NO. 60-160/433 [redacted]

ONE THOUSAND THREE HUNDRED EIGHTY DOLLARS NO CENTS

PAY ******1,380.00

PAY TO THE ORDER OF
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
P O BOX 2088
SANTA FE NM 87501

AUTHORIZED SIGNATURE

MELLON BANK N.A.
Pittsburgh, Pennsylvania
[redacted]

DOWELL SCHLUMBERGER
INCORPORATED

30 December 1992

Mr. William J. LeMay
Director
New Mexico Environmental Department
Water Quality Management
P.O. Box 2088
Sante Fe, NM 87501

Dear Mr. LeMay:

Enclosed please find check #787410 in the amount of $1,380.00 as payment of flat rate for service company discharge plan fee. This payment is submitted for the Dowel Schlumberger Incorporated, Farmington, New Mexico facility.

If you have any questions, please contact me at (713) 556-7223.

Sincerely,

Elani Gray

Elani Gray
Manager, Environmental Compliance

EG/dd

Enclosure

cc: L. Glaser
B. Wood, HNM
D. McKenzie, FNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

July 14, 1992

Mr. William J. Lemay, Director
State of New Mexico Oil
Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on July 9, 1992, regarding the effects of Oil Conservation Division (OCD) discharge permits GW-97, GW-100, GW-126, and GW-96 on fish, shellfish, and wildlife resources in New Mexico.

The Service has determined there are no wetlands or other environmentally sensitive habitats, plants, or animals that will be adversely affected by the following discharges.

GW-97 - The Western Company of North America, Farmington Service Facility located in Section 13 and 14, T29N, R13W, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System.

GW-100 - Dowell Schlumberger Incorporated, Farmington Service Facility located in Section 14, T29N, R13W, NMPM, San Juan County, New Mexico. There are no planned discharges at this facility.

GW-126 - HOMCO International, Inc. Farmington Service Facility located in Section 19, T29N, R12W, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped into a Watermaze Recycling Separator and reused for steam cleaning operations.

GW-96 - BJ Services, Farmington Service Facility located in Section 13, T29N, R13W, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved facility.

If you have any questions concerning our comments, please contact Mary Orms at (505) 883-7877.

Sincerely,

for Jennifer Fowler-Propst
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas

AFFIDAVIT OF PUBLICATION

No. 29761

STATE OF NEW MEXICO,
County of San Juan:

CHRISTINE HILL being duly sworn, says: "That she is the NATIONAL AD MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for ONE consecutive (days) (//////) on the same day as follows:

First Publication SUNDAY, JULY 12, 1992

Second Publication

Third Publication

Fourth Publication

and the cost of publication was $ 51.36

Christine Hill

Subscribed and sworn to before me this 20th day of JULY, 1992.

Connie Andrae

Notary Public, San Juan County, New Mexico

My Comm expires: July 3, 1993

COPY OF PUBLICATI

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-97) - The Western Company of North America, Phillip Box, 515 Post Oak Blvd., Suite 1200, Houston, Texas 77027, has submitted a discharge plan application for their Farmington Service Facility located in the W/2SW/4NW/4, Section 13 and the E/2 SE/4 NE/4 Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-100) - Dowell Schlumberger Incorporated, Dan H. McKenzie, 3106 Bloomfield Hwy., P.O. Box 1650, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SE/4 NE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. There are no planned discharges at the facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration ranging from 1650. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-126) - HOMCO International Inc., Robert J. Medler, Director Environmental-Safety, 5432 US Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped to a Watermaze Recycling Separator and reused for steam clearing operations. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 630 mg/l to 1470 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-96) - BJ Services, Jo Ann Cobb, Environmental Manager, 11211 W. FM 2920, Tomball, Texas, 77375, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4SE/4, Section 13 and the SE/4SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved disposal facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modifications, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of July, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY, Director

SEAL

Legal No 29761 published in the Farmington Daily Times, Farmington, New Mexico on Sunday, July 12, 1992.

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-97) - The Western Company of North America, Phillip Box, 515 Post Oak Blvd., Suite 1200, Houston, Texas 77027, has submitted a discharge plan application for their Farmington Service Facility located in the W/2SW/4NW/4, Section 13 and the E/2SE/4NE/4 Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water is most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentraion ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-100) - Dowell Schlumberger Incorporated, Dan H. McKenzie, 3106 Bloomfield Hwy., P.O. Box 1650, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SE4/NE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. There are no planned discharges at the facility. Ground water is most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-126) - HOMCO International, Inc., Robert J. Medler, Director Environmental-Safety, 5432 US Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped to a Watermaze Recycling Separator and reused for steam cleaning operations. Ground water most lik,ely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 630 mg/l to 1470 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-96) - BJ Services, Jo Ann Cobb, Environmental Manger, 11211 W. FM 2920, Tomball, Texas, 77375, has submitted a discharge plan application for their Farmington Service Facility located in teh SW/4SE/4, Section 13 and the SE/4SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved disposal facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spill,s leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed

STATE OF NEW MEXICO
County of Bernalillo ss

Thomas J. Smithson being duly sworn declares and says that he is National Advertising manager of the **Albuquerque Journal** , and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chaper 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for 1 times, the first publication being on the 13 day of July, 1992, and the subsequent consecutive publications on ....., 1992.

Thomas J. Smithson

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 13 day of July, 1992.

OFFICIAL SEAL
Bernadette Ortiz
BERNADETTE ORTIZ
NOTARY PUBLIC NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 12-18-93

PRICE $40.85

Statement to come at end of month.

CLA-22-A (R-12/92) ACCOUNT NUMBER C80930

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-97) - The Western Company of North America, Phillip Box, 515 Post Oak Blvd., Suite 1200, Houston, Texas 77027, has submitted a discharge plan application for their Farmington Service Facility located in the W/2 SW/4 NW/4, Section 13 and the E/2 SE/4 NE/4 Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 500 gallons per day of waste water is collected in the truck wash bay and discharged into the City of Farmington Sewage Treatment System (POTW). Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-100) - Dowell Schlumberger Incorporated, Dan H. McKenzie, 3106 Bloomfield Hwy., P.O. Box 1650, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SE/4 NE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. There are no planned discharges at the facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-126) - HOMCO International, Inc., Robert J. Medler, Director Environmental-Safety, 5432 US Highway 64, Farmington, New Mexico, 87401, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4 NW/4, Section 19, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico. Approximately 600 gallons per day of waste water is pumped to a Watermaze Recycling Separator and reused for steam cleaning operations. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 30 feet with a total dissolved solids concentration ranging from 630 mg/l to 1470 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-96) - BJ Services, Jo Ann Cobb, Environmental Manager, 11211 W. FM 2920, Tomball, Texas, 77375, has submitted a discharge plan application for their Farmington Service Facility located in the SW/4 SE/4, Section 13 and the SE/4 SE/4, Section 14, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. Approximately 8 gallons per day of waste water will be disposed of offsite at an OCD approved disposal facility. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 70 feet with a total dissolved solids concentration ranging from 600 mg/l to 900 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of July, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	2:30 P.M.	6/29/92

Originating Party	Other Parties
K.M. Brown-OCD	Dan H. McKenzie 325-5096
	Monty Low (acting manager)

Subject Info. for public Notice needed

Wash water volume, TDS+ final disposition

Groundwater TDS+ ~~volume~~ depth

Discussion Dan is out for 2 weeks; Monty, is filling in and will call back.

No truck wash basin. Trucks are washed off site at a separate truck washing facility. There is no other wash water except for handwashing (ie domestic sewage) operations.

Materials going to Envirotech as mentioned in the DP application would receive prior OCD and include things such as treated chemicals from the well site (ie several gallons).

Groundwater info. will be through OCD sources; easier.

Conclusions or Agreements Public notice will reflect this above.

Distribution

Signed Kathy Brown

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 6/18/92,

or cash received on 6/23/92 in the amount of $ 50.00

from D/S Farmington

for Farmington Service Facility (Facility Name) GW-100 (DP No.)

Submitted by: ______________________ Date: __________

Submitted to ASD by: Roger Anderson Date: 6/23/92

Received in ASD by: Sherry Gonzales Date: 6/23/92

Filing Fee X New Facility ___ Renewal ___

Modification ___ Other ______________ (specify)

Organization Code 521.07 Applicable FY 80

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

FARMINGTON DISTRICT PETTY CASH
P. O. BOX 1650 325-5096
FARMINGTON, NM 87401

[redacted]

95-207/1022

June 18 1992

Pay to the order of NMED - Water Quality Management $ 50.00

Fifty & 00/100 Dollars

Citizens Bank
P.O. Box 4140
Farmington, New Mexico 87499

For filing fee Dowell Schlumberger [redacted]

David H. McKnight

Rocky Mountain Bank Note A

DOWELL SCHLUMBERGER
INCORPORATED

June 18, 1992

RECEIVED
JUN 22 1992
OIL CONSERVATION DIV.
SANTA FE

Mr. Roger Anderson
State of New Mexico
Energy, Minerals, and Natural Resources Dept.
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Anderson:

Please find attached for your review an application for Ground Water Discharge Plan for our Farmington Facility located in the SE 1/4 SE 1/4, Section 14, Township 29 N, Range 13 W, San Juan County, New Mexico. This is filed pursuant to the New Mexico Water Quality Control Commission Regulations.

Should you have any questions concerning this application please call me at (505) 325-5096.

Sincerely,

Dan H. McKenzie
District Manager
Dowell Schlumberger Inc.

enc/dt

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

RECEIVED
JUN 22 1992
OIL CONSERVATION DIV.
SANTA FE

I. TYPE: Oil Field - Cementing, Acidizing and Fracturing

II. OPERATOR: Dowell Schlumberger Inc.

ADDRESS: 3106 Bloomfield Hwy., Farmington, NM 87401

CONTACT PERSON: Dan H. McKenzie PHONE: 325-5096

III. LOCATION: SE 1/4 SE 1/4 Section 14 Township 29 N Range 13 W
Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner of the facility site.

V. Attach a description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.

VI. Attach a description of all materials stored or used at the facility.

VII. Attach a description of present sources and quantities of effluent and waste solids.

VIII. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

IX. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

X. Attach a routine inspection, maintenance plan and reporting to ensure permit compliance.

XI. Attach a contingency plan for reporting and clean-up of spills or releases.

XII. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water.

XIII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

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: Dan H. McKenzie Title: Manager

Signature: Daniel H. McKenzie Date: 6-16-92

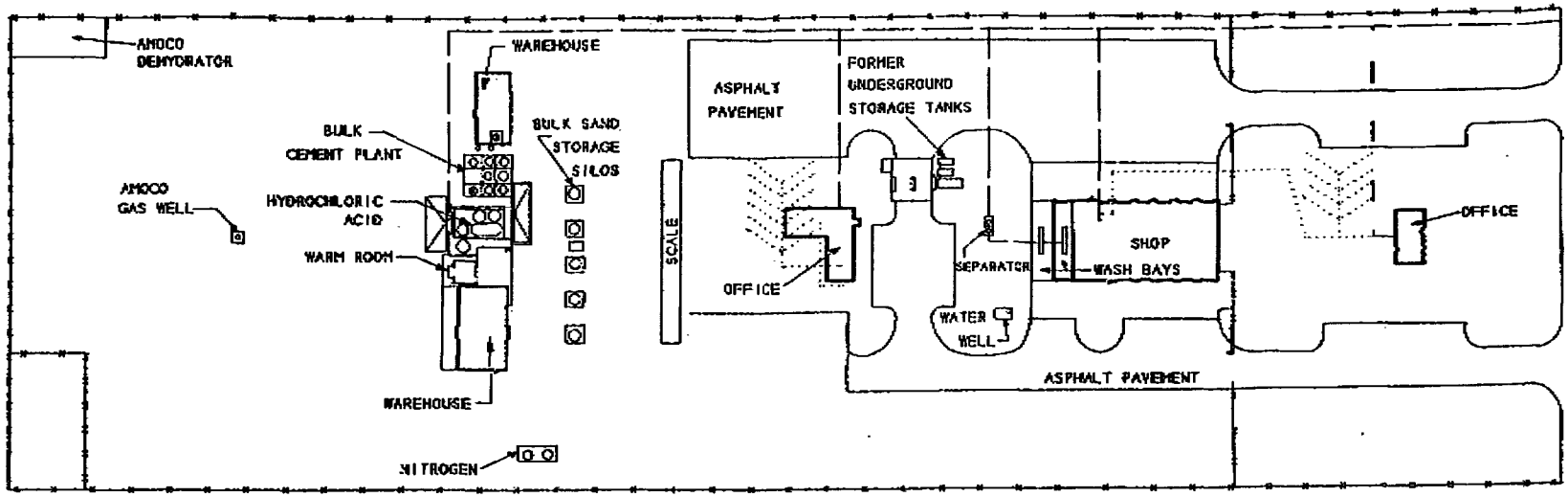
DISTRIBUTION: Original, 1 copy to Santa Fe w/ 1 copy to appropriate Division District Office.

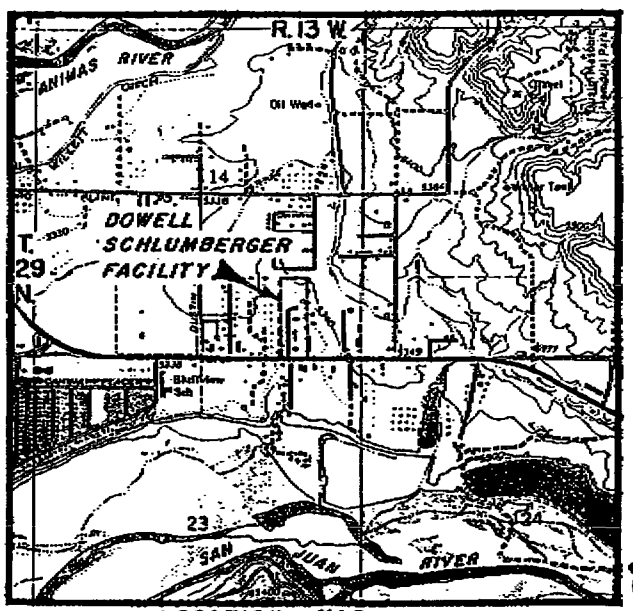
The facility provides special products and services for cementing and stimulating oil and gas wells. Plant activities include repair and refurbishing of equipment related to those activities and storage of various chemicals that are mixed and pumped at the well site

II

OPERATOR:	DOWELL SCHLUMBERGER, INC.
LOCATION:	3106 BLOOMFIELD HIGHWAY - P.O. BOX 1650
	FARMINGTON, NEW MEXICO 87401
CONTACT:	DAN H. MCKENZIE - MANAGER
PHONE:	(505) 325-5096

III





N

0 50 100 Ft.
SCALE

N

0 2000'
SCALE

EXPLANATION

FENCE

SEWER LINES

UNUSED SEPTIC SYSTEMS

FIGURE 1

SITE PLAN
DOWELL SCHLUMBERGER INCORPORATED
FARMINGTON, NEW MEXICO FACILITY

REVISIONS	
Date	By
1-11-90	KST

Western Water Consultants, Inc.

"ENGINEERING HYDROLOGY"
"GEOHYDROLOGY"

P.O. BOX 4426
LARAMIE, WY. 82070
(307) 742-0031

P.O. BOX 3043
SHERIDAN, WY. 82801
(307) 672-8633

Drawn By: JH | Checked By: KST | Date: 3-4-89 | Scale: 1"=100'

IV

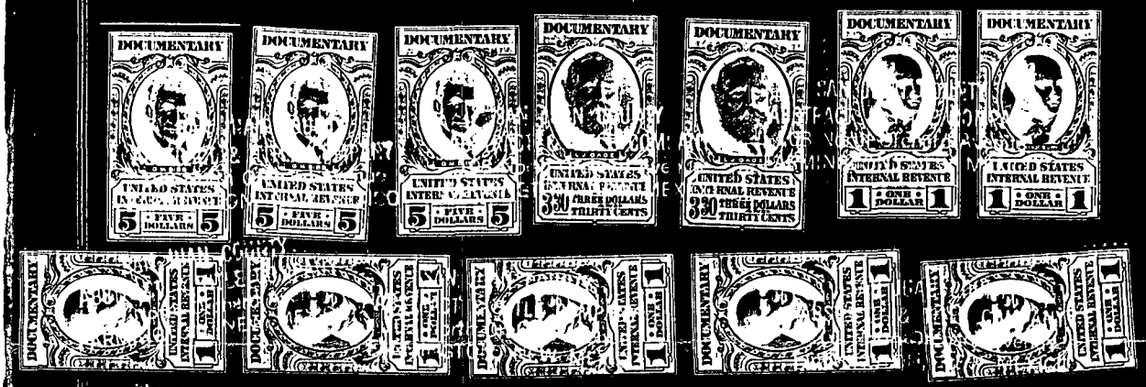
SHORT FORM WARRANTY DEED—New Mexico Statutory Form—Approved by the State Comptroller as Standard Form Oct. 6th, 1947. 195

WARRANTY DEED

J. B. BROWN and VEDA B. BROWN, husband and wife, ____, for consideration paid, grant ____ to DOWELL INCORPORATED, a Delaware Corporation, ____, the following described real estate in San Juan ____ County, New Mexico:

A Tract of land in the Southeast Quarter of the Southeast Quarter (SE¼SE¼) of Section Fourteen (14), Township 29 North, Range 13 West, N.M.P.M., described as follows:

BEGINNING North 89°50' West 924 feet from the Southeast Corner of said Section 14, such point being in the center line of State Highway # 17;
THENCE North 89°50' West 396 feet along the center line of said Highway to the Southwest corner of the SE¼SE¼ of said Section 14;
THENCE North 1320 feet;
THENCE South 89°50' East 396 feet;
THENCE South 1320 feet to the point of beginning, containing approximately 12 acres.
TOGETHER with one share in the Farmington Echo Irrigation Ditch.
SUBJECT to right-of-way over the South 40 feet thereof for said Highway # 17.



with warranty covenants.

WITNESS our hand S and seal S this 6th day of March, 19 57

J. B. Brown (Seal)

Veda B Brown (Seal)

(Seal)

STATE OF NEW MEXICO, County of San Juan } ss.

ACKNOWLEDGMENT
INDIVIDUAL

On this 6th day of March, 1957, before me personally appeared J. B. Brown and Veda B. Brown, husband and wife, to me known to be the person S described in and who executed the foregoing instrument and acknowledged that they executed the same as their free act and deed.

Witness my hand and seal the day and year last above written.

My commission expires Nov. 5, 1957 N. D. Roseborough Jr. Notary Public

STATE OF NEW MEXICO, County of ____ } ss.

ACKNOWLEDGMENT
CORPORATION

On this ____ day of ____, 19____, before me personally appeared ____, to me personally known, who being by me duly sworn, did say that he is ____ of ____, a corporation organized under the laws of the State of ____, and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation, by authority of its board of directors, and said ____ acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal the day and year last above written.

My commission expires ____ Notary Public

STATE OF NEW MEXICO, County of San Juan, ss. I hereby certify that this instrument was filed for record on the 7 day of March, 1957, at 11:00 o'clock A. M., and duly recorded in Book 322, page 195, of the Records of Deeds of said county, on this 7 day of March, A. D. 1957.

Linka Dial County Clerk.

By Bonnie Lane Deputy.

FORM SF-1—Printed and For Sale by Valliant Printing and Stationery Co., Albuquerque, N. M.

CHAPTER 1

INTRODUCTION

Site Description and History

Dowell Schlumberger Incorporated (DSI) owns and operates a facility located at 3106 Bloomfield Highway in the City of Farmington, San Juan County, New Mexico. Figure 1 shows the location and a site plan of the facility. The 11.6-acre facility was built in 1958 as a base for oil-field service operations. Prior to development, the land was under cultivation as an apple orchard.

The facility includes two office buildings, a five-bay vehicle-maintenance shop with one inside wash bay and one outside wash bay, two dry-chemical warehouses, and bulk storage containers for sand, cement and hydrochloric acid (Figure 1). An above-ground toluene tank was formerly located approximately 150 feet north of the acid plant. An underground storage tank (UST) system, including gasoline and diesel tanks and associated piping and dispensers, was also present northeast of the shop. The facility has been modified over its lifetime primarily by additions to the offices, addition of the western chemical warehouse, and changing the water and sewer system as described below. No other major modifications are known.

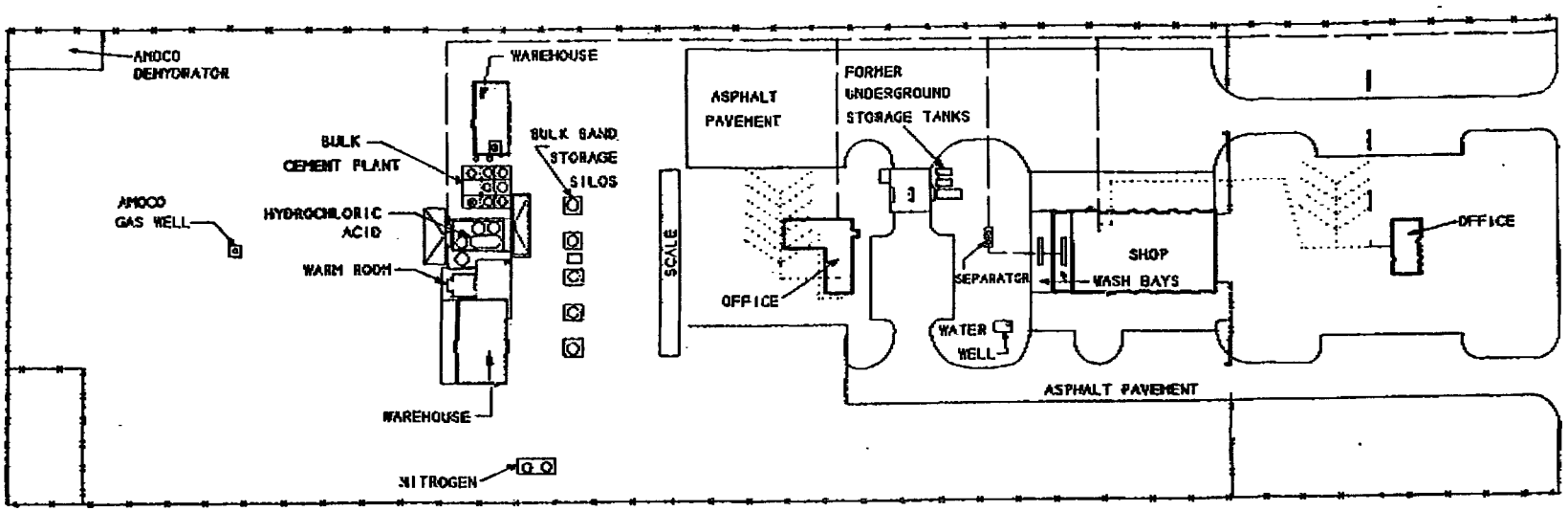
The facility originally obtained its water from a 100-foot deep industrial well drilled in 1959 northwest of the shop. Two septic systems (Figure 1) handled sewage from the offices and a wash room

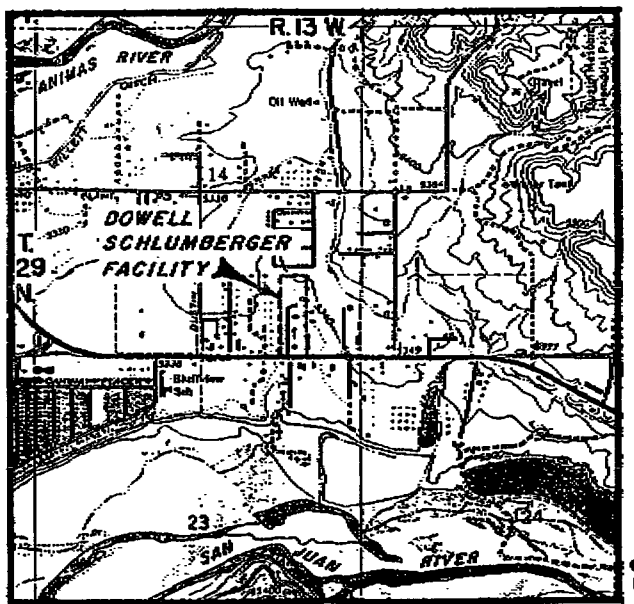
in the shop. Water from the wash bays was routed through an oil-water separator and then discharged into an open ditch along the southeast side of the property.

Municipal water and sewers were extended to the area in 1978. The DSI facility as well as other properties in the area are now connected to municipal utilities. DSI quit using the water well and both septic systems in 1978, but did not plug the well or remove the septic systems. Water and sewer lines not shown on the site plan (Figure1) are present beneath Bloomfield Highway adjacent to the south side of the facility.

The DSI Farmington facility is located on land owned by DSI in an area zoned for commercial use. It is bordered on the east by several commercial properties, on the south by U.S. Highway 64 (Bloomfield Highway) and a welding shop south of the highway, on the west by a construction company yard, and on the north by a residential area containing modular and mobile homes.

Amoco Production Company operates a gas well on the northern part of the DSI property (Figure 1) and a dehydration unit in the northeast corner of the property. The well produces natural gas from the Dakota Sandstone from depths between 5768 and 5910 feel below the surface.





LOCATION MAP

N

0 50 100 Ft.

SCALE

N

0 2000'

SCALE

EXPLANATION

- FENCE
- SEWER LINES
- UNUSED SEPTIC SYSTEMS

FIGURE 1

SITE PLAN
DOWELL SCHLUMBERGER INCORPORATED
FARMINGTON, NEW MEXICO FACILITY

REVISIONS	
Date	By
1-11-90	KBT

Western Water Consultants, Inc.

"ENGINEERING HYDROLOGY"
"GEOHYDROLOGY"

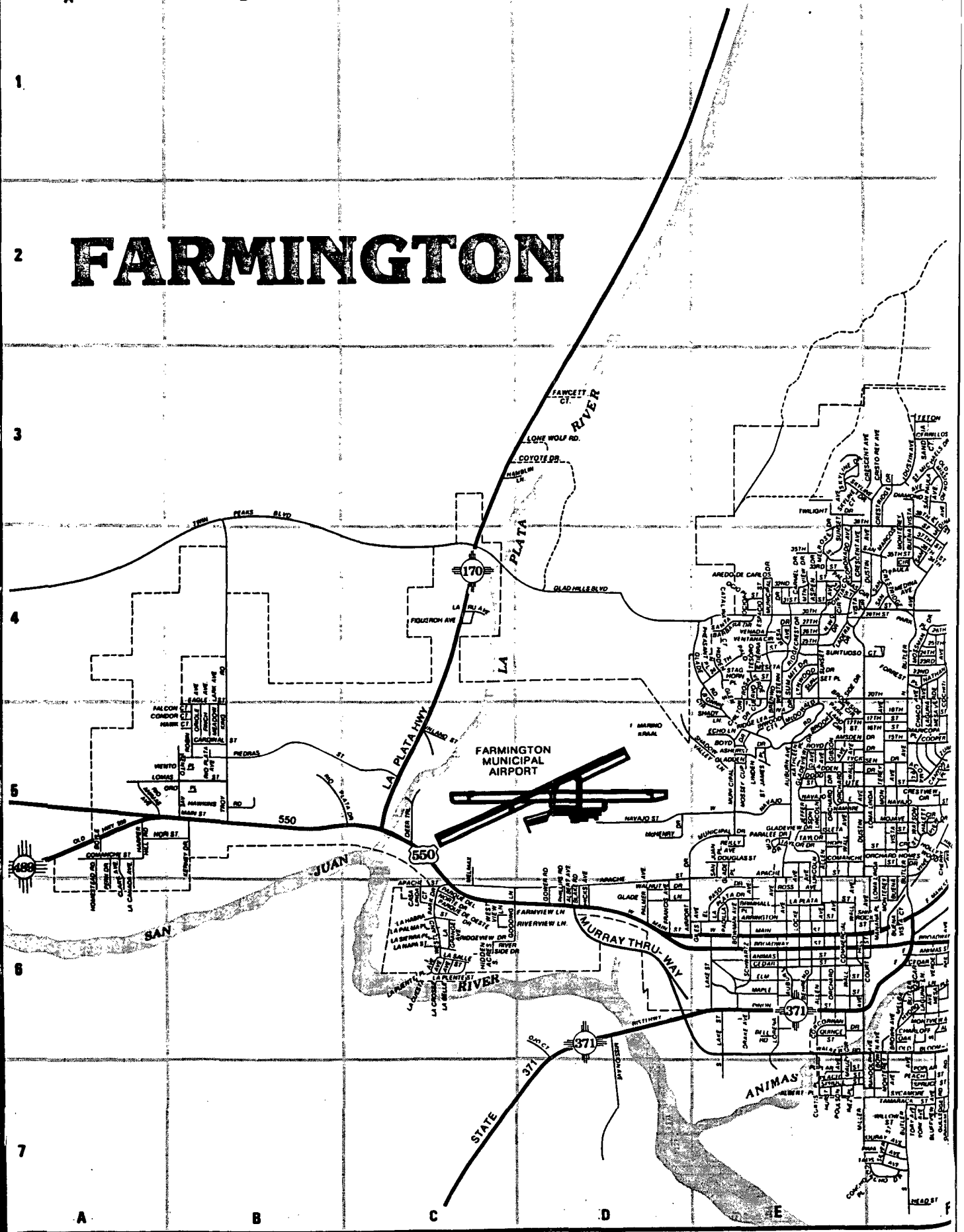
P.O. BOX 4456
LARAMIE, WY. 82070
(307) 742-0031

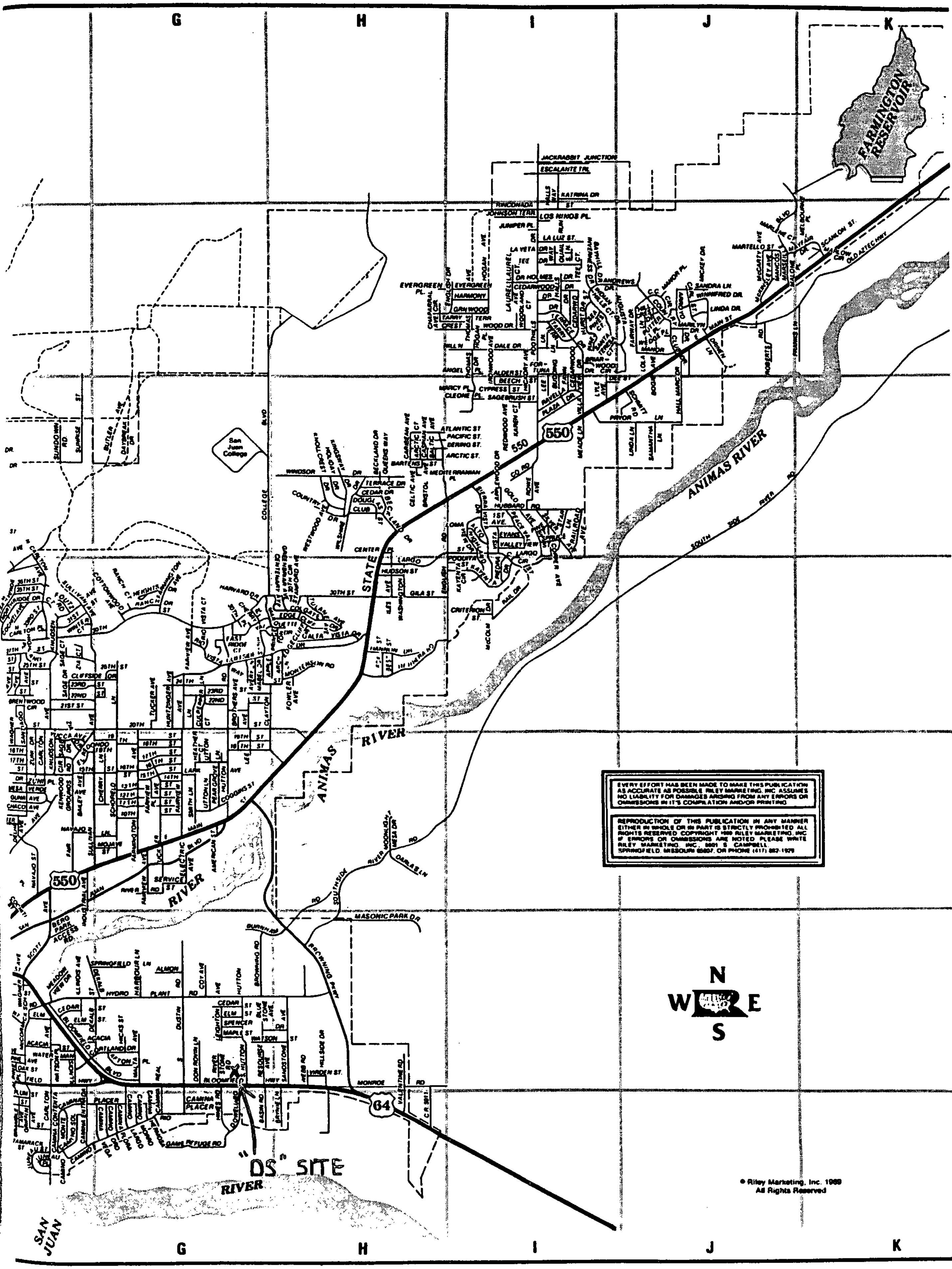
P.O. BOX 3041
SHERIDAN, WY 82801
(307) 672-8633

Drawn By: JH | Checked By: KBT | Date: 5-6-92 | Scale: Shown

MAPS

FARMINGTON




G
H
I
J
K
FARMINGTON RESERVOIR
JACKRABBIT JUNCTION
ESCALANTE TRL
KATRINA DR
RINCONADA
JOHNSON TERR
LOS NINOS PL.
JUMPER PL.
LA LUZ ST.
LA VETA
EVERGREEN
HARMONY
CEDARWOOD
WOOD DR
DALE DR
ALDER ST
BEECH ST
CYPRESS ST
SAGEBRUSH ST
MARCY PL
CLEONE PL
ANDREWS
SANDRA LN
WINNIFRED DR
LINDA DR
MAIN ST
MARTELLO ST
SCANLON ST.
OLD AZTEC HWY
PRYOR LN
HALL MARCOR
ATLANTIC ST
PACIFIC ST.
BERING ST.
ARCTIC ST.
MEDITERRANEAN PL
WINDSOR DR
TERRACE DR
CEDAR DR
COUNTRY CLUB
San Juan College
COLLEGE BLVD
550
ANIMAS RIVER
SOUTH SIDE RIVER RD
CENTER
LARGO
HUDSON ST
30TH ST
GILA ST
CRITERION ST.
HUBBARD RD
1ST AVE.
VALLEY VIEW
LOMA
HARVARD DR
COTTONWOOD
20TH ST
21ST ST
20TH
19TH
18TH
17TH
16TH
15TH
TUCKER AVE
HUNTZINGER AVE
SCHOFIELD
FARMINGTON
CHERRY
MOJAVE ST
NAVAJO
NAVAJO ST
SALLINAN
MAIN
ELECTRIC AVE
SERVICE
RIVER
ANIMAS
AMERICAN ST
COGGINS ST
BLVD
SOUTHSIDE RIVER RD
MESA DR
DARLAS LN
MASONIC PARK DR
BURNHAM
BROWNING PKWY
SPRINGFIELD LN
ALMON
HYDRO
PLANT RD
HUTTON
CEDAR
ELM
SPENCER
MAPLE ST
WATSON
ACACIA
PORTLAND DR
APTON PL.
HICKS ST
BLOOMFIELD
HWY
MONROE RD
VALENTINE RD
64
CAMINA PLACER
PLACER
CAMINO
GAME REFUGE RD
TAMARACK ST
"DS" SITE
RIVER
SAN JUAN
N
W
E
S
EVERY EFFORT HAS BEEN MADE TO MAKE THIS PUBLICATION AS ACCURATE AS POSSIBLE. RILEY MARKETING, INC ASSUMES NO LIABILITY FOR DAMAGES ARISING FROM ANY ERRORS OR OMMISSIONS IN IT'S COMPILATION AND/OR PRINTING
REPRODUCTION OF THIS PUBLICATION IN ANY MANNER EITHER IN WHOLE OR IN PART IS STRICTLY PROHIBITED. ALL RIGHTS RESERVED. COPYRIGHT 1989 RILEY MARKETING, INC. IF ERRORS OR OMMISSIONS ARE NOTED PLEASE WRITE RILEY MARKETING, INC., 6601 S. CAMPBELL, SPRINGFIELD, MISSOURI 65807, OR PHONE (417) 887-1979
© Riley Marketing, Inc. 1989
All Rights Reserved

MAPS

VI

MSD SHEETS FOR CURRENT INVENTORY STORED AT FARMINGTON FACILITY

Please Note: Refer to Discharge Plan GW-73 on file for Hobbs Facility for copies of MSD Sheets.

VII

Oilfield Service Facilities

Part VII. form (Optional)

Sources and Quantities of Effluent and Waste Solids Generated at the Facility - For each source include types of effluents (e.g. salt water, hydrocarbons, sewage, etc.) estimated quantities in barrels or gallons per month, and types and volumes of major additives (e.g. acids, biocides, detergents, degreasers, etc.). Use of this form os optional, but the information requested must be provided.

	Waste Type	General Composition and Source (Solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives(e.g. degreaser fluids from truck washing, soap in steam cleaners)
1.	Truck Wastes (Describe types of original contents trucked (e.g. brine, produced water, drilling fluids, oil wastes, etc)	Brine Water, Acid, gel from washing inside transports, trucks	(Off Site)	None
2.	Truck Washing (brine water, acid, gel, oil sand, dirt)	Waste materials from truck washing (outer)	(Off Site)	None
3.	Steam Cleaning of Parts, Equipment, Tanks	No Steam Cleaner on site	N/A	None
4.	Solvent/Degreaser Use	Safety-Kleen (Napth mineral spirits) from parts cleaning	N/A	None
5.	Spent Acids, Caustics or Completion Fluids (Describe)	See 1. above	N/A	N/A
6.	Waste Slop Oil	Oil recovered from oil filters	2 Gal.	None
7.	Waste Lubrication and Motor Oils	Pump packing oil, motor oil, compressor oil	300 Gal.	None
8.	Oil filters, Fuel Filters, Air Filters	Oil, fuel and air filters from trucks	Oil - 6 ea. Fuel-8 ea. Air - 1 ea.	None
9.	Solids and Sludges from Tanks (Describe types of materials [e.g. - crude oil tank bottoms, sand, etc.] - sand, resin-coated sand, cement pit sludge	Sand from air slide or sand dumps,	None	
10.	Painting Wastes	None	Not applicable (off site)	None

	Waste Type	General Composition and Source (Solvents from small parts cleaning, oil filters from trucks, etc.)	Volume Per Month (bbl or gal)	Major Additives(e.g. degreaser fluids from truck washing, soap in steam cleaners)
11.	Sewage (Indicate if other wastes mixed with sewage; if no commingling, domestic sewage under jurisdiction of the NMEID)	Domestic sewage only; No commingling	Not applicable	None
12.	Other Waste Liquids (Describe in detail - anti-freeze, maintenance shop washwater, laboratory wastewater)	Spent anti-freeze from trucks, washwater from shop cleaning, wastewater from lab testing	None 5 Gal.	
13.	Other Waste Solids (Cement, construction materials, used drums - slurry gel, used chemical drums, contaminated soil, oil sorbent	Excess gel from pumping operations, "empty" drums from chemical storage, soil from clean-up of accidental spills, absorbent material used to clean floors.	Cmt 200 sks drums 30 ea slurry gel 3 bbl Contaminated soil-oil sorbent	None

VIII

DISCHARGE PLAN APPLICATION

Oilfield Service Facilities

Part VIII. Form (Optional)

Summary Description of Existing Liquid and Solids Waste collection and Disposal. For each waste type listed in Part VII, provide summary information about onsite collection and disposal systems. Information on basic construction features, specific descriptions, and wastewater schematics should be provided as required in the Guidelines. The use of this form is optional, but the summary information requested must be provided.

Waste Type	Tank (T) Drum (D)	Floor Drain (F)/ Sump (S)	Pits- Lined (L) or Unlined (U)	Onsite Injection well	Leach Field	Offsite Disposal
1. Truck Wastes	-	-	-	-	-	-
2. Truck, Tanks and Drum Washing	T-1	-	-	-	-	1
3. Steam cleaning of parts, equipment, tanks	-	-	-	-	-	-
4. Solvent/Degreaser use	D-1	-	-	-	-	2
5. Spent Acids, Caustics, or completion fluids	D-5	-	-	-	-	1
6. Waste Slop Oil	T-1	-	-	-	-	3
7. Waste Lubrication and Motor Oils	T-1	-	-	-	-	3
8. Oil filters	Dumpster	-	-	-	-	4
9. Solids and Sludges from tanks						
Cement	T-2	-	-	-	-	5
Sand	T-3	-	-	-		9
		-	-	-	-	
10. Painting Wastes Not applicable						
11. Sewage	-	-	-	-	-	6

Waste Type	Tank (T) Drum (D)	Floor Drain (F)/ Sump (S)	Pits- Lined (L) or Unlined (U)	Onsite Injection well	Leach Field	Offsite Disposal
12. Other Waste Liquids:						
Maintenance Shop Wastewater	-	-	-	-	-	-
Laboratory Wastewater	C-1	-	-	-	-	1
Anti-freeze	T-1	-	-	-	-	3
13. Other Waste Solids:						
Used Drums	D-2	-	-	-	-	7
Used 5-gal containers	D-2	-	-	-	-	7
Contaminated Soil	-	-	-	-	-	8

IX

PROPOSED MODIFICATIONS

A. Slop Oil Storage (Construct Containment Wall)

1. Target Date for construction - 3rd Quarter 1994

   Completion Date - 3rd Quarter 1994

B. Wash Bay - Out of service for one (1) year, has shallow trough to collect wash bay sludge. Will be cleaned then closed by filling with cement.

1. Target Date - 3rd Quarter 1993

   Completion Date - 3rd Quarter 1993

C. Sump at Test Tank

1. Will receive closure by 3rd Quarter 1995

   New pits will have leak detection systems installed.

D. Under Ground Oil Separator

1. Excavated and closed by 2nd Quarter 1997

E. Lube House

1. Relocated to shop by 2nd Quarter 1994

F. Stained soil at test tank

1. Will be excavated and properly disposed of at Envirotech by 2nd Quarter 1995

See Section 9, E.Q. Manual (attached)

SECTION 9

SURFACE IMPOUNDMENT CLOSURE GUIDELINES

OBJECTIVE

A surface impoundment or pit is intended to be operated in such a way that it does not pose a threat to groundwater contamination. Where possible DS is eliminating surface impoundments and disposing of nonhazardous wastewater by other means such as a sewer plant or saltwater disposal well.

When required, closure of a surface impoundment should demonstrate to regulatory agencies the extent, if any, to which the impoundment may have contaminated the groundwater. This can be done, in some cases, by showing analyses of the wastewater and soil at the bottom of the impoundment. If no hazardous materials remain, the government agency may agree to closure as a nonhazardous surface impoundment.

If significant levels of government-listed hazardous substances are found at the bottom of the impoundment, core samples may be required all the way to the water table and a monitor well installed to provide access to the uppermost aquifer for evaluation of groundwater quality. This usually requires supervision by a consulting hydrogeological firm and their independent evaluation.

The first effort by DS is to evaluate the surface impoundment in accordance with the following guidelines.

A. SAMPLING PROCEDURE

1. A sampling grid should be formulated for collecting both water and soil samples from an impoundment. Figure 1 is an example of a grid. Samples collected must be representative of the area evaluated.

2. Follow all Procedures for Environmental Samples listed in Chapter 8.

B. FILING OF CLOSURE PLAN WITH GOVERNMENT AGENCY

1. Based on the analyses done to define the quality of the wastewater and the underlying soil, use the flowchart in Figure 2 to decide if the surface impoundment is free of nonhazardous materials. The flowchart in Figure 2 is a minimum guideline; some governments require additional tests.

2. Obtain guidelines for preparing a closure plan from the appropriate government agency.

3. Prepare closure plan to include any additional studies to be done and submit to government agency for approval.

4. Obtain reply from government agency. It may impose additional requirements other than those DS has proposed and very likely will assign waste disposal codes for the disposal of contaminated water and soil.

C. DISPOSAL OF CONTAMINATED MATERIALS (as required by country law)

1. Follow all applicable regulations for Hazardous Waste (see Chapter 12).

2. Follow approved closure plan for classification of contaminated materials.

3. Identify appropriate disposal sites in the area and contact the authorities for any requirements they may have such as filing a Waste Profile Sheet for approval along with a sample of the material for which disposal is desired.

4. Arrange for an authorized transporter to take the waste material from the DS site to the disposal site.

5. Prepare manifests to accompany the shipments, one for each transport load.

6. Where excavation is involved, take samples of the boundaries of the excavated areas (sides and bottom) and have analyses done to determine the extent to which the contaminants have been removed.

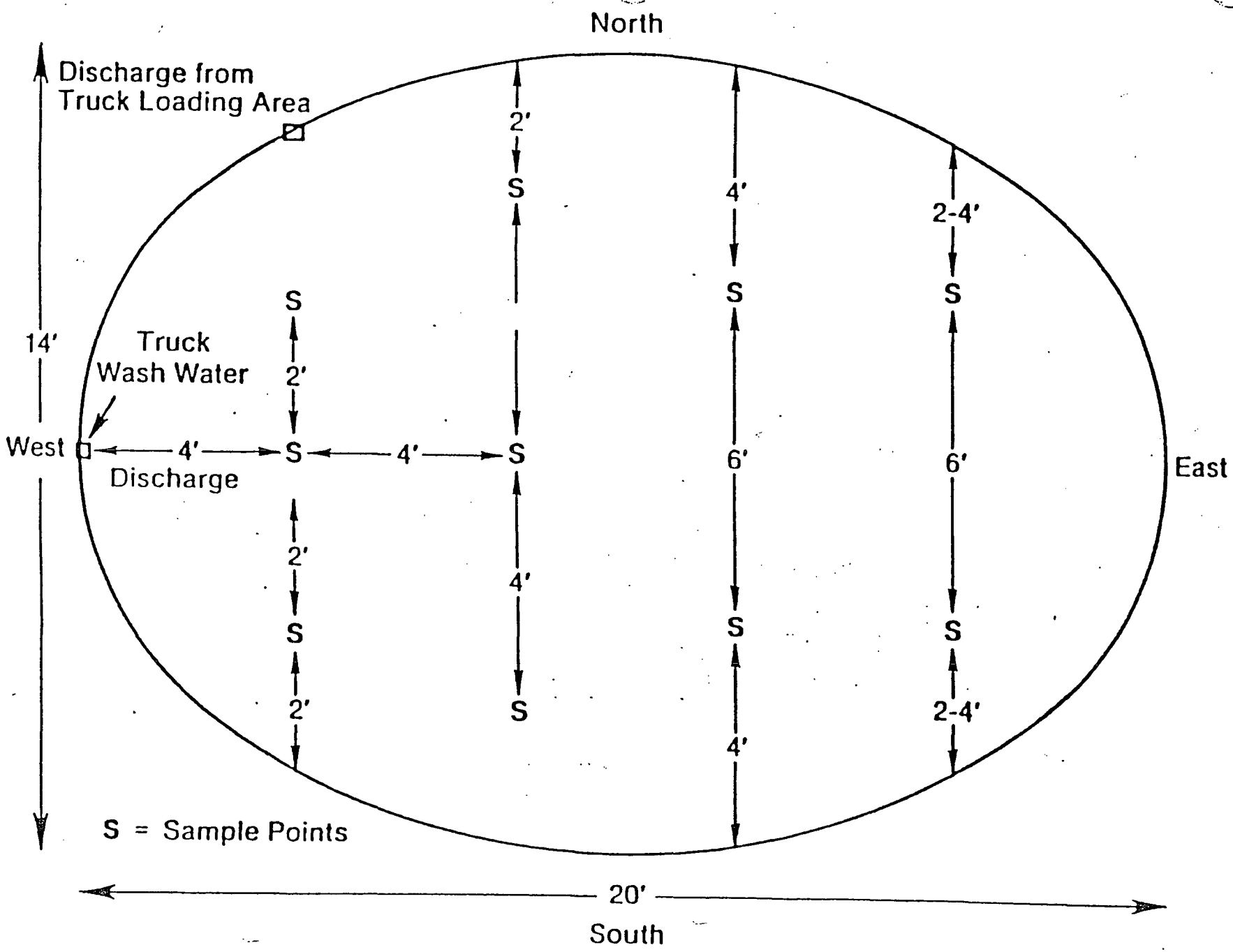
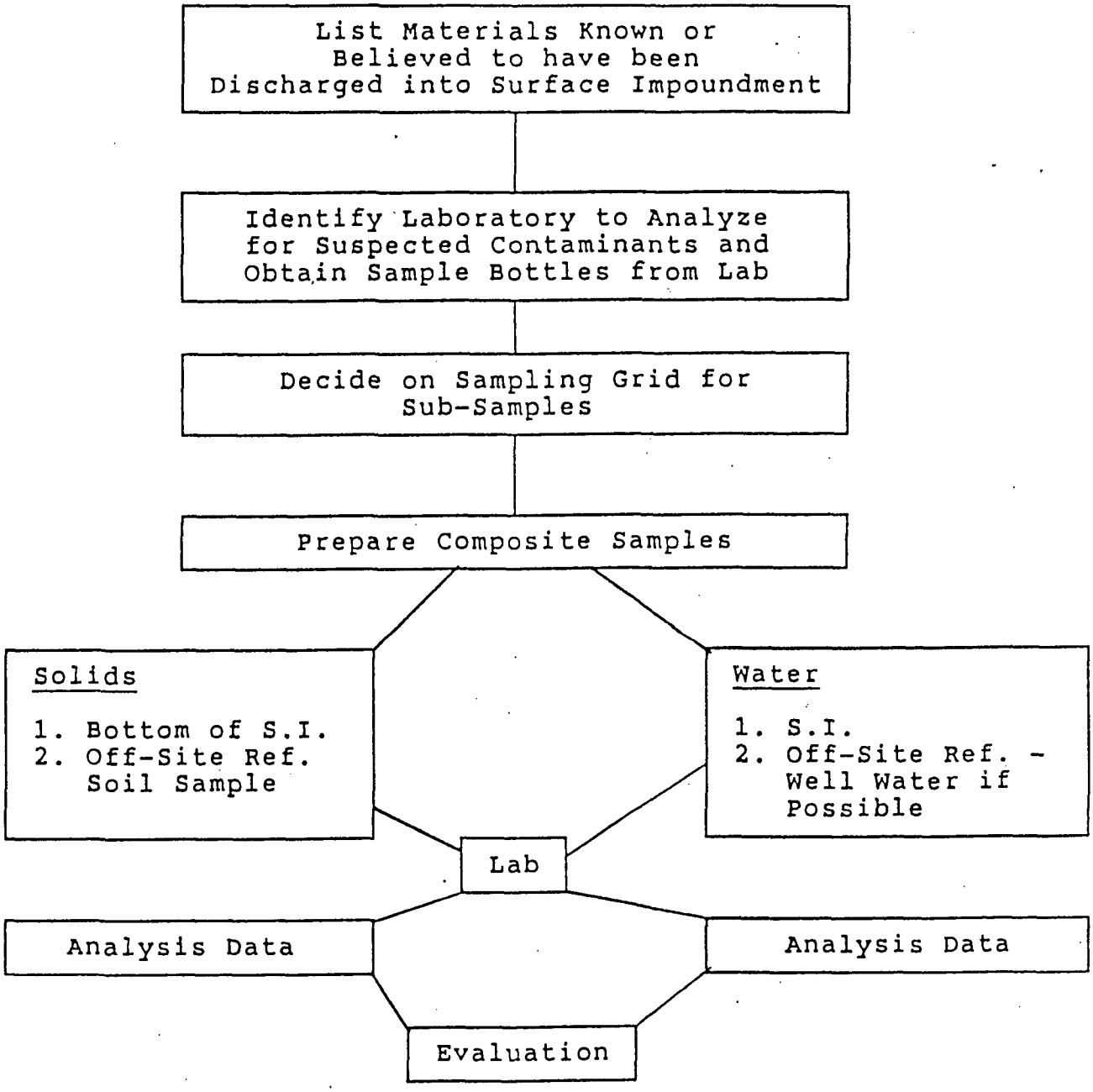


FIGURE -- EXAMPLE OF SAMPLING GRID

FIGURE 2

FLOW CHART FOR SURFACE IMPOUNDMENT EVALUATION



X & XI

X. INSPECTION, MAINTENANCE & REPORTING

A. See Inspection Report
   1. Frequency - weekly
   2. Records kept on file at facility for three (3) years.
   3. Notification of "OCD" within 24 hrs. of a found leak.

B. Sampling and Analytical Data
   1. Frequency - annual
   2. Reporting - annual

C. Containment - Offsite Discharge
   1. Absorbents placed at known areas of run off from site. (See A. above)

XI. SPILL/LEAK PREVENTION AND REPORTING PROCEDURES

(see attached)

DOWELL SCHLUMBERGER
INCORPORATED

DATE: 6-18-92
INSPECTOR: Ray Espinoza

FACILITY INSPECTION REPORT

PARKING AREA

		***
1.	Is area maintained free of recent spills or discharges?	YES X NO
2.	Are booms properly in place?	YES X NO
3.	Is the condition of the booms satisfactory?	YES X NO
4.	Is the security fence in good condition?	YES X NO

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

WASTE STORAGE

	***
1. Are containers stored closed?	YES X NO
2. Are containers maintained in good condition, free of rust dents, bulged, leaks?	YES X NO
3. Is accumulation date marked on each container?	YES X NO
4. Are containers properly labeled?	YES NO X
5. Are contents marked on container?	YES NO X
6. Is storage time for hazardous waste within the exemption (< 90 days)?	YES X NO
7. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response?	YES X NO
8. Are over packs available?	YES X NO
9. Is the area maintained free of spills, discharges and stormwater?	YES X NO

**A mark in this column requires corrective action

CORRECTIVE ACTION:

4 & 5 Some containers need to be labeled - will be labeled as soon as contents are identified.

COMMENTS:

CHEMICAL DRUM STORAGE

	***
1. Are drums segregated?	YES X NO
2. Are drums placed on pallets?	YES NO X
3. Are all drums labeled?	YES X NO
4. Are drums maintained in good condition, free of sever rust, bulges, dents, leaks?	YES X NO
5. Is there adequate aisle space present between drums to allow unobstructed movement for emergency response?	YES X NO
6. Are empty containers sealed?	YES X NO
7. Is revetment in satisfactory condition?	YES X NO
8. Is area maintained free of spills, discharges and stormwater?	YES X NO

**A mark in this column requires corrective action

CORRECTIVE ACTION:

2. Some drums not on pallets - Pallets will be in place by 6-24-92.

COMMENTS:

SLURRY PLANT

		***
1.	Are all tanks labeled as to contents and hazard?	YES X NO
2.	Is visible condition of tanks satisfactory?	YES X NO
3.	Are piping, valves and pumps maintained in good condition free of rust, dents, leaks?	YES X NO
4.	Is revetment in satisfactory condition?	YES X NO
5.	Is truck loading area free from spills?	YES X NO

**A mark in this column requires corrective action

CORRECTIVE ACTION

COMMENTS:

WAREHOUSE AND HEAD DOCK

***

1. Is area maintained free of spills, leaks and discharges? YES X NO____

2. Is there adequate aisle space between pallets to allow unobstructed movement for emergency response? YES X NO____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

OIL STORAGE/OIL SEPARATOR

		***
1. Is area maintained free of spills or discharges?		YES____ NO X
2. Is oil skimmer maintained in good condition?	N/A	YES____ NO____
3. Are used oil and fuel filters properly stored?		YES X NO____
4. Is revetment in satisfactory condition?		YES____ NO____
5. Are tanks labeled as to contents and hazard?		YES X NO____
6. Is visible condition of tanks satisfactory?		YES X NO____
7. Are full waste containers removed from accumulation area?		YES X NO____
8. Are waste containers stored closed and properly labeled?		YES____ NO X
9. Are valves and pumps maintained free of rust, dents, leaks?		YES X NO____
10. Is sump pump working?		YES X NO____
11. Is 180 bbl tank currently adequate?	N/A	YES____ NO____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

1. Some oil spillage under oil storage tanks / it will be cleaned by end of day - 6-18-92.

8. Oil waste container has no labels - will be on by 6-24-92.

COMMENTS:

SHOP/PAINT STORAGE

		***
1. Is area maintained free of spills or discharges?	YES X NO	
2. Is the capacity of the sump system currently adequate?	N/A YES NO	
3. Is Safety Kleen confined to the cleaning station?	YES X NO	
4. Is paint thinner stored properly?	YES X NO	
5. Are used batteries being stored properly, I.e. closed, covered and on pallets?	YES X NO	
6. Are all containers properly labeled?	YES X NO	

**A mark in this column requires corrective action

CORRECTIVE ACTION:

COMMENTS:

FUEL ISLAND

		***
1.	Are tanks labeled as to contents and hazard?	YES____NO____
2.	Is visible condition of tanks satisfactory?	YES____NO____
3.	Is revetment in satisfactory condition and maintained free of spills and stormwater?	YES____NO____
4.	Is fueling area maintained free of spills?	YES____NO____
5.	Is yard area around fueling facility maintained in good condition and free of evidence of spills or discharges?	YES____NO____

**A mark in this column requires corrective action

N/A - NO FUEL ISLAND

CORRECTIVE ACTION:

COMMENTS:

EMERGENCY RESPONSE EQUIPMENT

***

Are the following items in working order?

1. Absorbent booms YES X NO____
2. Absorbent pads YES X NO____
3. Full face respirators YES X NO____
4. S C B A' s YES X NO____
5. First aid kit YES X NO____
6. 3 gallon sprayer YES X NO____
7. Rubber Gloves YES X NO____
8. Disposable gloves YES X NO____
9. Chemical suits YES X NO____
10. Disposable suits YES X NO____
11. Disposable boots YES X NO____
12. Flash lights YES X NO____
13. Shovels YES X NO____
14. Rakes YES X NO____
15. Communication equipment YES X NO____

**A mark in this column requires corrective action

CORRECTIVE ACTION:

Our response team has all necessary equipment.

ADDITIONAL ACTIONS OR COMMENTS

CORRECTIVE ACTION:

COMMENTS:

SECTION 4

SPILL PREVENTION AND CONTROL

A. GUIDELINES FOR DS SPILL CONTAINMENT AND BEST MANAGEMENT PRACTICES PROGRAM

The objectives of these guidelines is to contain and control unexpected discharges of substances which could damage public or private property or adversely affect the environment, air, ground, and surface or subsurface waters, including public-owned treatment works.

1. Diking will be provided for secondary containment ofhazardous substances. All diking and other containment devices shall be consistent with sound engineering practices, loss prevention principles and environmental regulations.

2. New facility construction and major facility upgrading shall be designed so that unexpected discharges of hazardous products will be contained on DS property and measures will be taken to prevent it from entering or adversely affecting the environment. Existing facilities will be evaluated and controls devised to contain unexpected discharges.

3. With continued emphasis by government agencies to regulate the management of all phases of hazardous substances and wastes, it is imperative that DS secure proper permits prior to beginning construction of new facilities or making changes to existing facilities. Location facilities with existing environmental permits, or those that have not been required to have permits in the past, may be required to obtain permits prior to changes or modifications.

4. Strong emphasis should be put on drainage, water tables, future growth, sewer availability and capability, and low-profile locations for future siting of DS locations.

5. Written procedures will be developed to document a Spill Prevention Control and Countermeasures (SPCC) and Best Management Practices Program. Records of preventive maintenance, housekeeping and training practices must be kept current at all times.

B. SPILL CONTROL - STORAGE AND DRAINAGE RECOMMENDATION

1. Bulk Liquid Chemical Storage and Mixing Areas (HCl, HF, P121, $ZnBr_2$), diesel fuel, methanol and all other liquid bulk stored chemicals or additives).

(a) All bulk liquid chemical storage and hazardous waste tanks shall have a containment system to prevent losses from entering groundwater, soil, navigable waters and sewer systems, or otherwise creating an environmental or a personnel hazard.

(b) Various types of containment systems have been used in DS. A satisfactory tank-farm containment system will meet the following design criteria.

(1) Volume of containment must be 110% of the largest container in the containment not including the volume displaced by tanks and other equipment in the containment.

(2) Dike and interior floor must be liquid tight and designed to withstand a full hydrostatic head of the fluid being contained. Materials of construction will have a permeability of 1×10^{-7} centimeters/second or less, which is about 1/10 of an inch per year.

(3) Drainage of all fluids from containments must be routed in such a manner to allow for proper testing and treatment prior to any discharge. There will be no openings in the containment system. Annual hydrostatic testing of the containment system will be conducted and documented.

(c) Bulk chemical tanks requiring fume scrubbers such as HF, HCl or VERTAN* 675 may generate hazardous wastes as a result of the scrubber action. These wastes may be subject to hazardous waste regulations (see No. 7 below).

2. Drummed Product Storage

(a) Drummed chemicals shall be stored in an area designed to contain a spill that may result from the rupture of a container.

(b) Sloped and/or curbed concrete slabs provide the best type of containment for storage of these containers. A slope of a minimum of 1% should be incorporated in the design of these slabs.

(c) Consideration must be given to safe and efficient handling of the containers, collection and removal of spills, and control of rainwater or snow melt runoff.

* Trademark or Service Mark of Dowell Schlumberger

(d) Spills or stormwater runoff shall never be allowed to drain directly into sewer systems or lagoons.

3. Tank Truck/Car Loading and Unloading Facilities

(a) These areas will be designed with a spill containment area for treatment or disposal.

(b) Consideration must be given to containment size (minimum 110% of largest truck). Design will minimize the amount of stormwater entering the containment.

(c) Diversionary systems will be provided if needed to prevent spills from entering sewer system lines.

4. Dry Bulk Product Storage and Handling

(a) Driveways and truck traffic ways must be paved to prevent "fugitive" dust.

(b) Properly designed and operating dust collector is required on any dry product storage or handling system that is loaded or unloaded pneumatically. If excessive dust is generated by mechanical handling equipment, dust collectors on the system will also be necessary. Minimum air flow rate to bag surface area is a 3:1 ratio cu ft/sq ft.

(c) All dry products bagged or in bulk will be handled so that "fugitive" dust does not leave DS property.

5. General Facility Drainage

(a) The yard drainage of a new or modified location facility will be designed to prevent stormwater or chemical spills from directly entering a sewer system or from affecting permanent structures on the facility.

(b) The exit point or points of runoff will be noted on plot plans so that the operator of the facility can develop emergency spill containment plans.

6. Used Motor Oils and Solvents

a) Used oil and used chlorinated solvents must be provided with and stored in separate containers.

(b) Used oils will be recycled where feasible by selling or transferring ownership to a government-approved oil reclaimer.

(c) Used chlorinated solvents.

(1) Consider local or regional system to reclaim solvent if practical.

(2) Consider location reclamation system if applicable.

(3) Transfer ownership to government-approved solvent reclaimer.

7. Wastewater Handling and Disposal

(a) Acid fume scrubber water and acid transport rinse water.

(1) Must never be reused for acid dilution; such reuse is a violation of the DS Quality Assurance Policy.

(2) If excess is generated, it may be completely neutralized and disposed of as a nonhazardous waste.

(b) Truck wash wastewater.

(1) Recycle waters only for reuse in truck wash to remove oil and solids.

(2) This water (even after treatment) cannot be used for acid dilution; such reuse is a violation of DS Quality Assurance Policy.

(3) If excess is generated, after proper treatment, it may be sent to a sanitary sewer system (if allowed by local regulations) or saltwater disposal well.

8. Stormwater

(a) Minimize uncontaminated stormwater entrance into sewer or lagoon.

(b) Preference will be given to use public sewer systems for disposal of process area stormwater.

(c) Cover (roof) all areas having drains connected to sewer system or lagoon or use rain stop valves.

(d) Design entire facility to direct nonprocess area stormwater away from sewer drains, separator tanks and lagoons.

(e) Stormwater collected inside diked areas and other chemical process areas will be tested prior to discharge. If contaminated, it will be disposed of in accordance with government permits or as a waste.

(f) Stormwater must be handled in accordance with all government regulations. Permits may be required for discharge to sewer or surface. Contaminated stormwater cannot be discharged to a ditch except as allowed in applicable government permits.

9. General

(a) Avoid the necessity for surface discharge permits for wastewater by using the public sewer system (if allowed by local regulations) or other waste disposal method.

(b) Emphasize recycle/reuse of wastewaters and other potential wastes; however, these must never be used in products or services.

(c) Avoid use of lagoons or ponds for wastewater storage. These may require permits.

(d) Review adequacy of pretreatment system, neutralization beds, oil and mud separators, etc. These must be inspected weekly for proper functioning; the inspection must be documented.

(e) Plan a designated empty drum storage area out of sight. Used drums must have bungs in place, and stored in a manner that residual chemicals cannot contaminate the ground or stormwater runoff.

SECTION 13

REPORTING SPILLS

Call the DS EMERGENCY RESPONSE SYSTEM (TELEPHONE NO. (918) 582-0104) immediately if any of the following events occur.

- Any chemical spill, regardless of amount, from transport vehicles, storage facilities or damaged containers.

- Any motor vehicle accident in which there is a chemical spill of any amount or the vehicle is carrying a radioactive source.

- Personnel exposure to chemicals.

AN ER TEAM MEMBER WILL ASSIST IN MAKING THE REQUIRED IMMEDIATE REPORTS TO GOVERNMENT AGENCIES AND THE REQUIRED FOLLOW-UP WRITTEN REPORTS TO THE AGENCIES.

Regulations for reporting spills are constantly changing. Most spills, regardless of quantity, must be reported to some government agency. In many cases, "immediate reporting" and follow-up written reports are required. If spills are not promptly and properly reported, expensive fines and other penalties can result. Individuals are personally liable if spills are not correctly and immediately reported.

DOWELL SCHLUMBERGER EMERGENCY RESPONSE SYSTEM

The Dowell Schlumberger Emergency Response System is designed to provide immediate action response information to the scene of a transportation, medical or environmental emergency. Timely, accurate response information is the key to a successful E/R plan. The DS E/R system operates 24 hours per day, 7 days per week.

DS E/R PLAN

I. INCIDENT

A. CHEMICAL SPILLS from transport vehicles, storage facilities or damaged containers.

B. MOTOR VEHICLE ACCIDENTS in which there is a chemical spill or the vehicle is carrying a radioactive material.

C. PERSONNEL EXPOSURES to chemicals.

II. ACTION

A. FIRST AID for exposure or injury if required.

B. ISOLATE AREA by roping off or diking as appropriate.

C. DO NOT discuss liability with anyone.

D. TELEPHONE (918) 582-0104. THE DOWELL SCHLUMBERGER EMERGENCY RESPONSE NUMBER should be called on all such emergencies. Be prepared to provide the following information:

1. Nature of the problem - chemical spill, personnel exposure, MVA with chemical spill or radioactive source, etc.;

2. Amount and type of chemical spill;

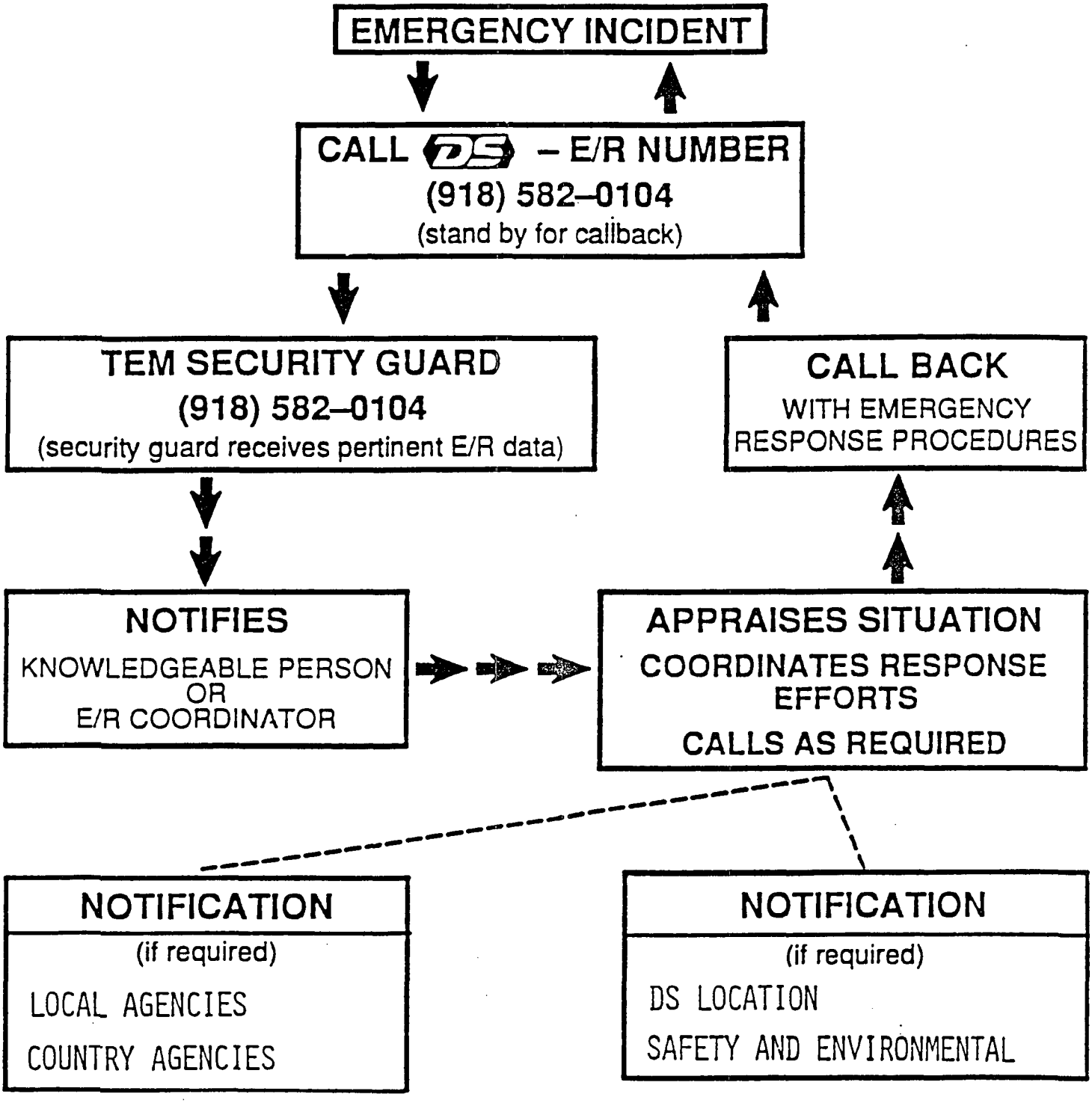
3. Location of incident.

E. STAND BY for callback from Knowledgeable Person. The KP, after appraising the situation will offer any appropriate immediate help as well as notify local locations, authorities or DS Departments as warranted.

F. WHEN NECESSARY IMMEDIATE NOTIFICATION or WRITTEN REPORTS to government agencies will be made by the DS Department having responsibility for that agency. The KP will prepare a summary of the incident and his actions taken.

G. DISCUSS the E/R plan in safety meetings and POST on the permanent section of the bulletin board at each DS location.

EMERGENCY COMMUNICATIONS NETWORK



XII

HYDROGEOLOGY

THE DSI FACILITY IS LOCATED ON THE NORTH FLANK OF THE SAN JUAN STRUCTURAL BASIN (FASSETT, 1964). BEDROCK IN THE AREA DIPS TO THE SOUTH AT APPROXIMATELY 1 DEGREE (100 FEET PER MILE). THE UPPERMOST BEDROCK COMPRISES APPROXIMATELY 900 FEET OF STANDSTONE, SILTSTONE AND SHALE OF THE CRETACEOUS KIRTLAND FORMATION (PETROLEUM INFORMATION, 1981).

LEGENDS
FACILITY / OFFSITE DISPOSAL

FACILITY LEGEND

T1 = USED MOTOR OIL TANK

T2 = CEMENT BLOW-DOWN TANK

T3 = BIN FOR SAND STORAGE

D1 = SAFETY-KLEEN DRUMS

D2 = USED DRUM STORAGE AREA

D3 = SATELLITE USED MOTOR OIL DRUMS

D4 = WASTE STORAGE AREA

D5 = STORAGE TANK

C1 = 5-GAL CONTAINER

OFFSITE DISPOSAL LEGEND

1. WASTE STREAMS FROM TRANSPORT RINSATE, AND LAB WASTEWATER ARE COMBINED FOR OFF-SITE DISPOSAL AT ENVIROTECH.

2. SOLVENT/DEGREASER IS SUPPLIED AND RECLAIMED ONCE USED BY SAFETY-KLEEN, INC.

3. USED MOTOR OIL AND ANTIFREEZE IS SENT OFF-SITE FOR RECLAMATION TO BE RE-USED AS FUEL.

4. USED OIL FILTERS ARE DRAINED AND DISPOSED AT THE LOCAL CITY LANDFILL VIA STORAGE IN DUMPSTER.

5. DISPOSAL OF CEMENT/SAND: SAND DISPOSAL - ENVIROTECH CEMENT DISPOSAL - FEUSED FOR FENCE POSTS, SMALL SLAB GIVE AWAY.

6. CITY SEWER EXPLANATION: AT PRESENT NOT DISCHARGING THROUGH CITY SEWER. (OTHER THAN DOMESTIC SEWAGE ONLY)

7. USED DRUMS AND 5-GAL CONTAINERS ARE RECONDITIONED BY WEST TEXAS DRUM COMPANY.

8. HAVE NOT DISPOSED ON CONT. SOIL, BUT ARE ARRANGING W/NON-HAY DISP. COMPANY; ANY HAZARDOUS CONT. SOIL IS SCHEDULED FOR DOW INCINERATION, HOWEVER, WE HAVE NOT GENERATED....

9. NOT DISPOSED - USED ON-SITE FOR FILL OFF-SITE.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

New Mexico DRUG FREE It's a State of Mind!

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

February 21, 1992

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-289

Mr. Dan H. McKenzie, Manager
Dowell Schlumberger, Inc.
P.O. Box 1650
Farmington, New Mexico 87499

RE: DISCHARGE PLAN REQUIREMENT
FARMINGTON SERVICE FACILITY
SAN JUAN COUNTY, NEW MEXICO

Dear Mr. McKenzie:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations, you are hearby notified that the filing of a discharge plan is required for your existing Farmington Service Facility located at 3106 Bloomfield Highway, Farmington, San Juan County, New Mexico.

This notification of discharge plan requirement is pursuant to Part 3-104 and Part 3-106 of the WQCC Regulations. The discharge plan, defined in Part 1.101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the facility or adjacent to the facility site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in below grade sumps, buried underground process tanks and/or piping), and closure plans for any pits or ponds whose use will be discontinued.

A copy of the regulations is enclosed for your convenience. Also enclosed is an application and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Three copies of your discharge plan should be submitted for review purposes.

Section 3-106.A. of the regulations requires submittal of the discharge plan application within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Part 3-106.A. also allows discharges to

continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3-114 became effective as of August 18, 1991, and is found on page 33.1 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty (50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars ($1380). The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. Please make all checks out to the **NMED - Water Quality Management.**

If there are any questions on this matter, please feel free to contact Roger Anderson at (505) 827-5812 or Kathy Brown at (505) 827-5884 as they have the assigned responsibility for review of all discharge plans.

Sincerely,

William J. LeMay
Director

WJL/rca

xc: Denny Foust - OCD Aztec Office

Chad Decton 6/17

325-5096

Dow Chem Co.

all put down hole;
no excess

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

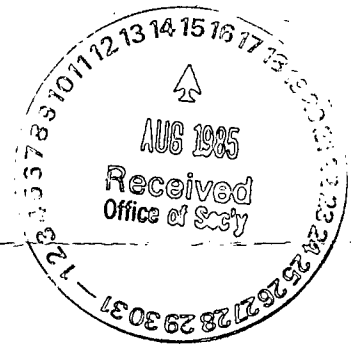
50 YEARS
1935 - 1985

TONEY ANAYA
GOVERNOR

June 4, 1985

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

Dowell
Division of Dow Chemical Co.
3106 E. Bloomfield Hwy
Farmington, NM 87401



Dear Sir:

In response to recent events, the Oil Conservation Division is conducting a survey of well service companies operating within the State. A response to this survey is required to establish the gravity of potential pollution problems in the field.

Please check the appropriate categories describing operations at your facilities and fill-in blanks with short one or two word answers. A long, detailed description of company activities is not required at this time.

This survey is part of the OCD regulatory duties and responsibilities and it will be used to assess activities statewide. A response to this questionnaire is requested within 30 days; your full cooperation is appreciated in this matter.

If there are any questions or more information is necessary, please call Jami Bailey in Santa Fe at (505) 827-5884.

Sincerely,

R. L. STAMETS,
Director

RLS/JB/dp

Enc.

cc: OCD District Office

WELL SERVICE COMPANIES
QUESTIONNAIRE

Check one or more, as applicable.

I. Types of Services Performed:

___ Vacuum Hauling/Tank Cleaning
X Acidizing
X Fracturing
X Cementing
___ Drilling mud/additives
X Other (Specify) INDUSTRIAL

II. General Types of Products and Quantities Used in Service or Transported in 1984:

		Quantity (bbls.)
X	Acids	2043
___	Brines	
X	Caustics J221 M2 85001 050	1692
___	Drilling Mud/Additives	
___	Corrosion Inhibitors	
___	Surfactants/Polymers	
___	Shale Control Inhibitors	
___	Radioactive Tracers Returned from Wellbores or Pipelines	
X	Oxygen Scavangers M129 67014	0
___	Waste Oil	
___	Produced Water	
___	Other (Specify)	

WELL SERVICE COMPANIES
QUESTIONNAIRE

Check one or more, as applicable.

I. Types of Services Performed:

___ Vacuum Hauling/Tank Cleaning
X Acidizing
X Fracturing
X Cementing
___ Drilling mud/additives
X Other (Specify) INDUSTRIAL

II. General Types of Products and Quantities Used in Service or Transported in 1984:

		Quantity (bbls.)
X	Acids	2043
___	Brines	
X	Caustics	1692
___	Drilling Mud/Additives	
___	Corrosion Inhibitors	
___	Surfactants/Polymers	
___	Shale Control Inhibitors	
___	Radioactive Tracers Returned from Wellbores or Pipelines	
X	Oxygen Scavangers	0
___	Waste Oil	
___	Produced Water	
___	Other (Specify)	

III. TYPE, QUANTITY, AND LOCATION OF WELL SERVICE FLUIDS AND SOLIDS, PRODUCED WATER, OR WASTE OIL DISPOSAL

TYPE OF FLUID OR SOLID	VOLUME (BARRELS)	DISPOSAL SITE (NO. FROM BELOW)	LOCATION	NATURE OF DISPOSAL LOCATION (LETTER FROM BELOW)
ACID	11	Injected into the well (Ave. used per JOB).		
CAUSTIC	23	Injected into the well (Ave. used per JOB)		

Disposal Sites

1. Individual Well Site (Do not list all locations)
2. Sanitary Landfill
3. Injection Wells (Do not list locations)
4. Evaporation Pond
5. Chemical Waste Tank
6. City Sewer
7. Company Facilities
8. Other (Specify)

Nature of Disposal Location

A. Lined Pit
B. Unlined Pit
C. Ground Surface
D. Above Ground Tank
E. Buried Tank
F. Injection Well
G. Other (Specify)