June 23, 1997

Sonat Exploration Company 110 W. Louisiana Suite 500 Midland, Texas 79701

Attention: Ms. Laura Clepper

Re:

Littlefield SWD Well No.1

Unit B, Section 11, T-24S, R-31E,

Eddy County, New Mexico

Dear Ms. Clepper:

In an effort to update our records concerning the Littlefield SWD Well No. 1, the Division is requesting that you supply the following described information:

A description and analysis of the fluid being injected into the commercially operated Littlefield SWD Well No. 1. This includes an analysis of <u>each and every</u> water source and a description of its point of origin (i.e. San Andres produced water from the Grayburg-Jackson Pool). In addition, this includes water delivered to the well by pipeline <u>and</u> truck.

Division and Federal UIC Rules and Regulations require that all operators of disposal wells provide source water analysis at reasonable frequency. Our information indicates that the Littlefield SWD Well No. 1 was permitted by Bettis, Boyle and Stovall in July, 1992, and that our files have not been updated since that time.

Please provide the information requested within 60-days from the date of this letter. If you need additional time, or you wish to discuss the matter further, please contact Mr. David Catanach at (505) 827-8184.

Failure to comply may result in the imposition of fines and/or the termination of injection authority.

Sincerely,

William J. LeMay Division Director

xc: File-SWD-485

OCD-Artesia

UIC Enforcement File

11.	Operator: SONAT Exploration Company	CALL 1
11.	110 W Louisiana Suite 500 Midland TX 79701	684.0433
	Address.	
	Contact party: Todd Moehlenbrock Phone: (915) 6	
111.	Well data: Complete the data required on the reverse side of this form proposed for injection. Additional sheets may be attached	if necessary.
IV.	Is this an expansion of an existing project? Yes one of the Division order number authorizing the project <u>SWD-48</u>	5•
٧.	Attach a map that identifies all wells and leases within two miles of a injection well with a one-half mile radius circle drawn around each prowell. This circle identifies the well's area of review.	ny proposed posed injection
VI.	Attach a tabulation of data on all wells of public record within the ar penetrate the proposed injection zone. Such data shall include a descrwell's type, construction, date drilled, location, depth, record of communication of any plugged well illustrating all plugging detail.	iption of each
VII.	Attach data on the proposed operation, including:	
	 Proposed average and maximum daily rate and volume of fluids to 2. Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and comp the receiving formation if other than reinjected produced wat If injection is for disposal purposes into a zone not productive at or within one mile of the proposed well, attach a chemical the disposal zone formation water (may be measured or inferred literature, studies, nearby wells, etc.). 	atibility with er; and e of oil or gas analysis of
V111.	Attach appropriate geological data on the injection zone including appropriately detail, geological name, thickness, and depth. Give the geologic name, tottom of all underground sources of drinking water (aquifers containing total dissolved solids concentrations of 10,000 mg/l or less) overlying injection zone as well as any such source known to be immediately under injection interval.	and depth to g waters with the proposed
IX.	Describe the proposed stimulation program, if any.	
x.	Attach appropriate logging and test data on the well. (If well logs hawith the Division they need not be resubmitted.)	ve been filed
XI.	Attach a chemical analysis of fresh water from two or more fresh water available and producing) within one mile of any injection or disposal water location of wells and dates samples were taken.	wells (if ell showing
XII.	Applicants for disposal wells must make an affirmative statement that texamined available geologic and engineering data and find no evidence or any other hydrologic connection between the disposal zone and any unsource of drinking water.	of open faults
KIII.	Applicants must complete the "Proof of Notice" section on the reverse a	side of this form.
XIV.	Certification	
	I hereby certify that the information submitted with this application is to the best of my knowledge and belief.	
	Name: Todd Moehlenbrock Title Senior Petrole	9
	Signature: Nochlechaf Date: 7/8/97	

111. WELL DA A

- A. The follo inq well data must be submitted for each injection well covered by this application. The data sust be both in tabular and schematic form and shall include:
 - (1) Leas name; Well No.; location by Section, Township, and Range; and Cootage loca ion within the section.
 - (2) Each easing string used with its size, setting depth, sacks of cement used, hole size top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The rame, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- O. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The rame of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the firmation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the O:l Conservation Division, P. O. Box 2000, Santa Fe, New Mexico 87501 within 15 days.

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

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

III. Well Data

A.

- Littlefield Federal No. 1 Section 11, T-24 South, R- 31 East 660' FNL, 1980' FEL
- 2. Surface casing 8-5/8" 24# set at 365'. Cement with 150 sxs, circulated 20 sxs to surface.

Production casing - 4-1/2" 10.5# set @ 4656'. Cement with 750 sxs, top of cement at 2294' by temperature survey. Perforated 4 squeeze holes from 2200'-2204', cement through squeeze holes with 650 sxs cement, top of cement at 1080' by temperature survey. Perforated four squeeze holes from 1000'-1004', cement through squeeze holes with 500 sxs cement, circulated 89 sxs to surface.

- 3. Injection tubing to be used will be 2-3/8" 4.7# Salta-lined tbg. Setting depth will be above all injection interval at approximately 4500'.
- 4. Injection packer to be used is Baker A3 Lok-set packer to be set at approximately 4500'.

B.

- 1. The injection formation is the Bell and Cherry Canyon sand members of the Delaware Mountain Group.
- 2. The injection interval will be into existing perforations 4580'-4654' (gross), existing openhole 4656'-4900', and into proposed additional openhole section from 4900'-6500'.
- 3. This well was initially drilled in 1964 to a TD of 4656' to test the Bell Canyon formation. It was dry and was plugged and abandoned. In July, 1992, Bettis, Boyle & Stovall received a permit to inject for SWD and re-entered the well. 4-1/2" casing was run and set at 4656' and cemented in place. The well was perforated from 4580'-4620', and 4634'-4654' and was put on injection. In January 1993, Bettis, Boyle & Stovall re-entered the well, fracture treated the perforations and deepened the well to 4900' to increase injectivity.
- 4. N/A
- 5. There are no known oil or gas zones above the injected interval within the area of review.

The nearest deeper producing zone within the area of review is in the Sonat operated Lotos 11F Federal No. 2. Its top perforation is at 6886'.

The Merit operated SDS 11 Federal #1 (Unit letter F) is a SWD well injecting into perforations 4962'- 5212'.

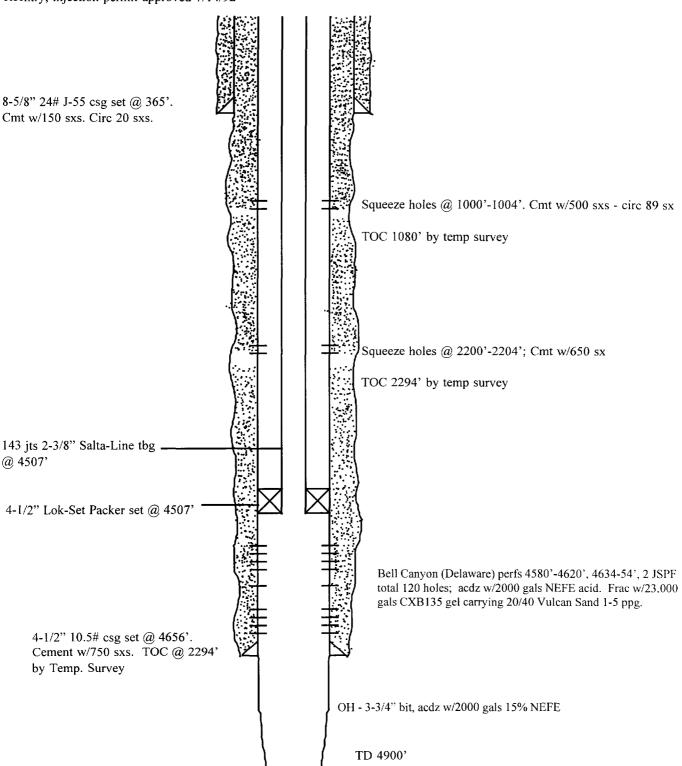
Littlefield Federal No. 1 SWD

Current

660' FNL, 1980' FEL Section 11, Unit Letter B, T24S, R31E, Eddy County, New Mexico

Spud 2/26/64 Completion, request permit to abandon 3/4/64

Reentry, injection permit approved 7/14/92

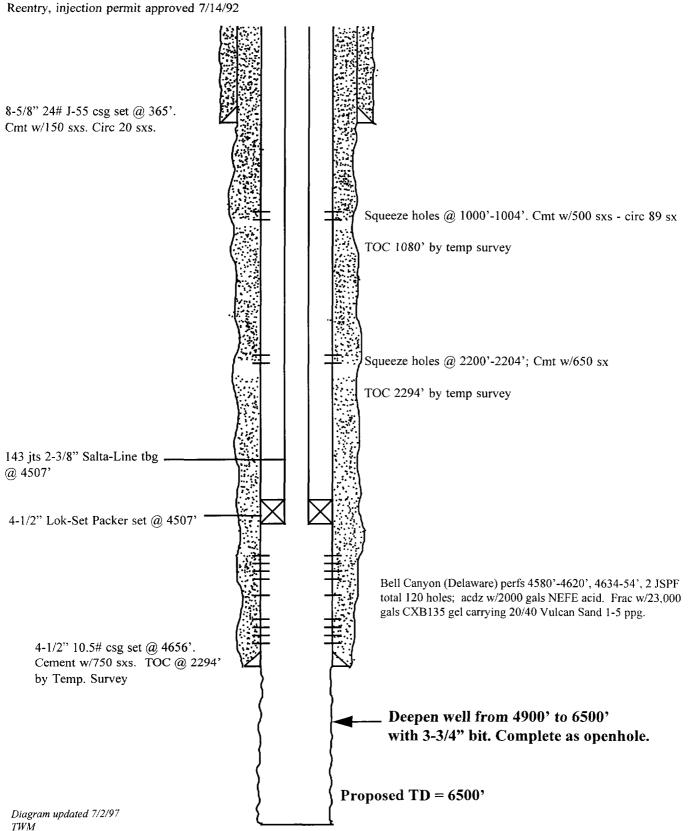


Littlefield Federal No. 1 SWD

Proposed

660' FNL, 1980' FEL Section 11, Unit Letter B, T24S, R31E, Eddy County, New Mexico

Spud 2/26/64
Completion, request permit to abandon 3/4/64



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- 200	215 215 215 215	- Z 3		\$ 500 S		-4g.8" 2

VI. Tabulation Of Data On All Wells Within Area Of Review

1. Todd 2 State No. 3

Sonat Exploration Company

Section 2, T-24 South, R - 31 East, 660' FSL & 660 FEL

Date Drilled - May, 1996

Casing Record:

Surface - 11-3/4" @ 440'. Cement with 400 sxs. Circulated 153 sxs.

Intermediate - 8-5/8" @ 4350'. Cement with 2386 sxs, circulated 90 sxs.

Production casing - 5-1/2" @ 8511'. Cement w/1460 sxs in 2 stages. TOC @ 3850' calculated.

Completion Record:

Perforations 8112'- 8136' were acidized and sand fraced Perforations 7346'- 7360' were acidized.

Well is currently on rod pump.

2. SDS "11" Federal #1

Merit Energy Corporation

Section 11, T-24 South, R-31 East, 2090' FSL & 1980' FWL

Date Drilled - August, 1993

Casing Record:

Surface - 11-3/4" @ 418'. Cement with 685 sxs. Circulated 99 sxs.

Intermediate - 8-5/8" @ 4450'. Cement with 1753 sxs. Circulated 296 sxs.

Production - 5-1/2" @ 8440'. Cement with 974 sxs. TOC @ 3400' calculated.

Completion Record:

Perforations 8218'-8254' were acidized and fraced. Abandoned by setting CIBP above at 8200'. Perforations 4962'-5212' were acidized and fraced. Current SWD injection zone.

Well is currently injecting down 2-7/8" poly-lined tubing with packer set at 4857'.

3. Lotos "11-F" Federal No. 2

Sonat Exploration Company

Section 11, T-24 South, R-31 East, 1780' FNL & 660' FEL

Date Drilled - April, 1996

Casing Record:

Surface - 11-3/4" set @ 412'. Cement with 400 sxs. Circulated 184 sxs to pit.

Intermediate - 8-5/8" @ 4430'. Cemented with 1400 sxs. Circulated 80 sxs to pit.

Production - 5-1/2" @ 8621'. Cemented with 840 sxs. TOC at 5520' by cement bond log.

Completion record:

Perforations 8026'-8298' were acidized and fraced Perforations 6886'-7099' were acidized

Well is currently being rod pumped. Prior to deepening the Littlefield Federal #1, Sonat will perform remedial cement work on the Lotos Federal "11F" No. 2. Squeeze holes will be shot @ +/- 5420' and cement tied back into intermediate casing by at least 500'.

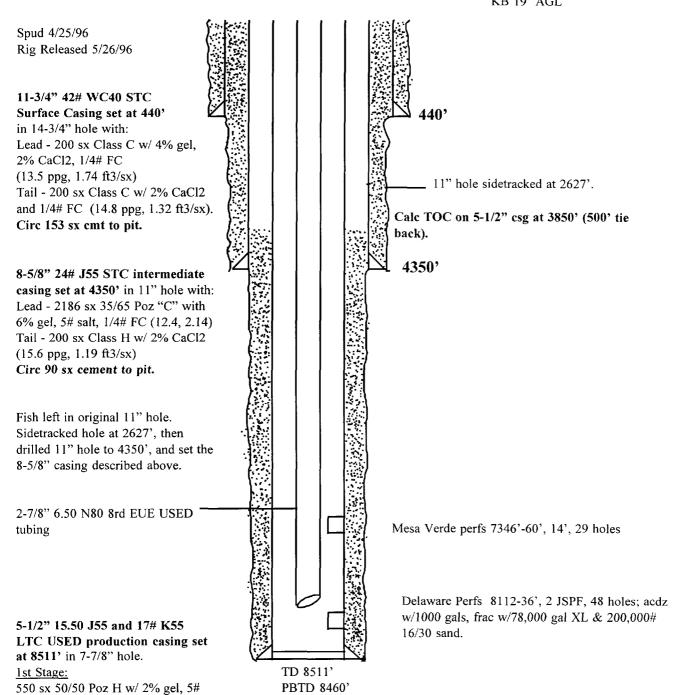
salt, 1/4# FC, 0.15% D59 FLA (14.2, 1.35). Circ 75 sx.

2nd Stage: DV tool at 6491' 910 sx 50/50 Poz H w/ 2% gel, 5# salt, 1/4# FC, 0.15% D59 FLA

Calc TOC at 3850' (500' tie back).

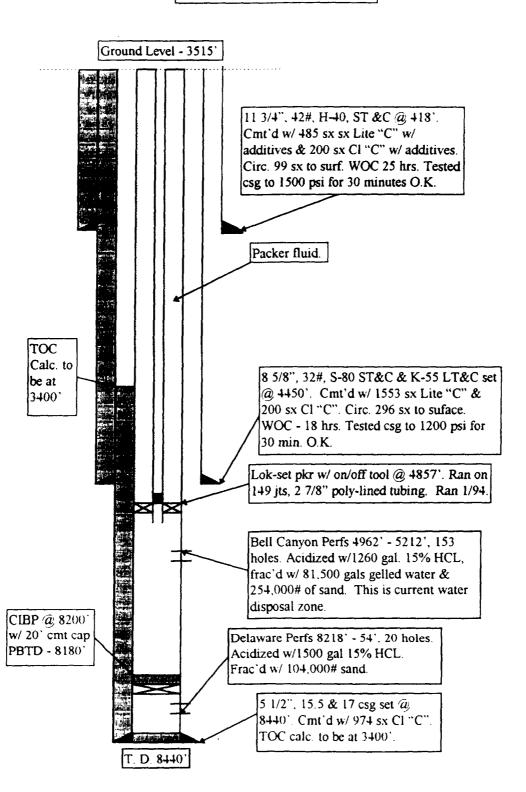
(14.2, 1.35).

660' FSL & 660' FEL,
Section 2, Unit Letter P, T24S, R31E,
Eddy County, New Mexico
Elevation 3520' KB
KB 19' AGL



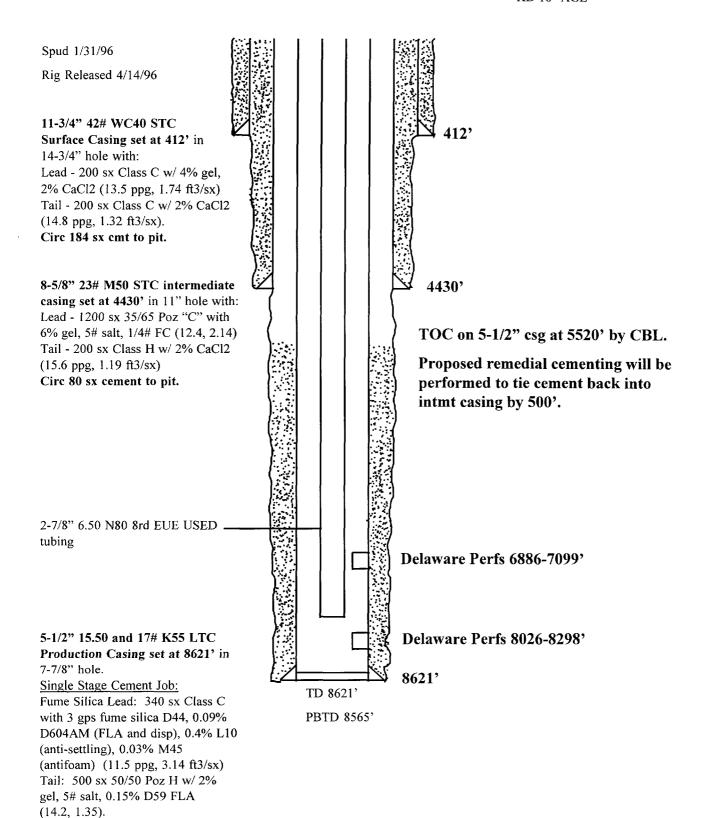
SDS "11" FEDERAL #1 -5(4) OPERATOR - MERIT ENERGY CORPORTATION 2090' FNL & 1980' FWL Section 11, Unit Letter "F" T24S - R31E Eddy County, New Mexico

Spud - 08/12/93 Currently - SWDW rate 2000 bwpd



Lotos "11-F" Federal No. 2

1780' FNL, 660' FEL,
Section 11, Unit Letter H, T24S, R31E,
Eddy County, New Mexico
KB 18' AGL



TOC at 5520 by CBL.

VII. Data On Proposed Operation

- 1. Anticipated average daily injection rate into the Littlefield Federal #1 is 1500 BWIPD, with maximum daily rate expected at 2500 BWIPD.
- 2. The system will be a closed system.
- 3. The maximum injection pressure will be 920 psig (current maximum allowed injection pressure). Expected average injection pressure will be 800 psig.
- 4. The injected fluid will be Delaware produced water, which will be re-injected into the Delaware. Therefore, the formation fluid and injected fluid will be compatible.
- 5. The proposed disposal zone is not productive of oil or gas within 1 mile of the Littlefield Federal #1. A Delaware (Bell Canyon) water analysis is attached from Sonat's Lotos "C" Federal No. 901. This water analysis was obtained during an unsuccessful Bell Canyon recompletion in 1996.

VIII. Geological Data

The top of the Delaware is at 4480' in the Littlefield Fed #1. The Delaware is a sequence of sand and shales that is approximately 3800' thick in this area. These numerous sands are generally porous, permeable and water bearing. Immediately above the Delaware is a massive anhydrite and salt section from approximately 1100' - 4480'. The only fresh water in the area is above 320'. The nearest fresh water well is located in Unit letter F, Section 2, T24S, R31E which is approximately 3/4's of a mile north of the Littlefield Federal No. 1. This water well is located on Sonat's Todd 2 State lease. A water analysis of this well is attached.

IX. Proposed Stimulation

This well will be completed as an openhole completion (combined with existing perfs) and will be acidized with 15% HCL and rock salt for diversion.

- X. An openhole log was submitted to the NMOCD in September, 1992.
- XI. A water analysis is attached for Sonat's fresh water well located in Unit Letter F, Section 2, T24S, R31E. A search of this area reveals that there are no other fresh water wells located within 1 mile of the Littlefield Federal #1.
- XII. The available geologic and engineering data has been reviewed and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

In Sonat's Lotos Federal "11F" No. 2, the top of cement behind the 5-1/2" production casing is at 5520'. Before any deepening operations are performed on the Littlefield Fed #1, remedial cementing will be performed on the Lotos Federal "11F" No. 2 to bring the cement top to at least 500' into the intermediate casing set at 4430'.

Fresh Water Well - Unit Letter F, Sec. 2 T= 245, R-3/E

P → BOX 1468 MONAHANS, TEXAS 79756 PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

		LABORATORY NO.	59616	
o: Mr. Selden Jones		SAMPLE RECEIVED	5-17-	.96
110 W. Louisiana, Ste 500, Midla	nd, TX 79701	RESULTS REPORTED	5-23 -	.96
	t	EASE		
ELD OR POOL				
ECTION BLOCK SURVEY	COUNTY	<u>Eddy</u> sta	TE NM	
DURCE OF SAMPLE AND DATE TAKEN:				
NO 1 Drinking water - taken fr				
NO.2 Maximum contents for drin	king water as	recommended b	y the Texas D	ept. of Heal
NO. 3				
NO. 4				
EMARKS:				
	AICAL AND PHYSIC	AL DROBERTIES		
CHEN	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020			
pH When Sampled	1.0020			
pH When Received	6.57			
Bicarbonate as HCO ₃	239			
Supersaturation as CaCO ₃	237			
Undersaturation as CaCO,		¥		
Total Hardness as CaCO,	334			
Calcium as Ca	69			
Magnesium as Mg	39		,	
Sodium and/or Potassium	110			
Sulfate as SO,	288	300		
Chloride as Cl	55	300		
Iron as Fe	0.52	0.3		
Barium as Ba	0.52	0.9		
Turbidity, Electric				
Color as Pt	-			
Total Solids, Calculated	801	1,000		
Temperature °F.	001	1,000		
Carbon Dioxide, Calculated			-	
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	9.73			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
itrate, as N	0.2	10.0	•1	
	Results Reported As Milli			· • · · · · · · · · · · · · · · · · · ·
Additional Determinations And Remarks Based on th				
ater exceeds State recommended m				
ron only. It should be clarifie				
orrosion and may not necessarily	be consiste	ntly above the	standard on t	the basis of
his single analysis.				
			- P. T.	
			· · · · · · · · · · · · · · · · · · ·	
		1		

Form No. 3

By Waylan C. Martin, M.A.

Fresh Water Well - Unit Letter F, Sec. 2, T-245, 15-5/E

Martin Water Laboratories, Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 (915) 943-3234 or 563-1040

WATER CONSULTANTS SINCE 1953 BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA MIDLAND, TEXAS 79701 (915) 683-4521

To: Mr. Selden Jones

110 W. Louisiana, Suite 500

Midland, TX 79701

Laboratory No. B59634 Sample received 5-17-96 Results reported 5-23-96

Company:

Sonat Exploration

County:

Eddy, NM

Field: Lease:

Subject: To determine the presence or absence of coliform bacteria.

Method:

Recommended by the American Public Health Association as follows: Each of five tubes of multiple strength lactose broth inoculated with 10 ml of the sample for the presumptive test. If any tubes are positive, they are in turn inoculated into brilliant green

lactose bile broth for confirmative tests.

Source of sample and date taken

#1. Drinking water - taken from Todd fresh water well. 5-17-96

								Number of Pos	sitive Tubes
Incubation period	•	•	•	•	•	•	•	24 hours	48 hours
Presumptive test	•	•	•	•	•	•	•	0	1
Confirmed test			•	•		•	•	0	1

Remarks: Based on the determinations performed above, this water is not indicated to be satisfactory for human consumption.

Waylan C. Martin, M.A.

Martin Water Laboratories, Inc.

P. O. BÖX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

RESULT OF WATER ANALYSES

199 W FNORANA MIDLAND TE KAS 79701 PHONE 683 4021

		ORATORY NO.		
TO Mr. Tom Myers	SAN	MPLE RECEIVED	5-1.7-	
110 W. Louisiana, Ste 500, Mi	dland, TX 79701 _{RES}	BULTS REPORTE	D5-29-	<u>-96</u>
Const Evaloration		_ T.s.#s	os "C"	
	LEAS	E LOCC	os C	
	Poker Lake			
SECTION BLOCK SURVEY	COUNTY Edd	YST	ATE NM unsuccessfic	,
SOURCE OF SAMPLE AND DATE TAKEN:				
NO.1 Produced water - taken	from Lotos "C" #90	01. /	Bell Cans	you kecomple
NO. 2		From	Bell Cana Perfs-483	z'-5064' (Bei
NO. 3				
			····	
NO. 4				
REMARKS:				
C	HEMICAL AND PHYSICAL P	ROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60" F.	1.1052			
pH When Sampled				
pH When Received	6.40			
Bicarbonate as HCO,	85		<u> </u>	
Supersaturation as CaCO,				
Undersaturation as CaCO,		,	1 1 y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Total Hardness as CaCO,	35,500			
Calcium as Ca	10,100			
Magnesium as Mg	2,491			
Sodium and/or Potassium	48,105			
Sulfate as SO,	0			
Chloride as Cl	99,427			
Iron as Fe	106			
Barium as Ba	256			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	160.464			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.066			
Suspended Oil				
Fiftrable Solids as mg/l				
Volume Filtered, mi				
			 	
	Results Reported As Milligrams	Per Liter		
Additional Determinations And Remarks When we	compare the above	with our r	ecords in this	field, we
find it has characteristics re	asonably similar t	o what we	would expect f	rom a natural
Delaware except it has no sulf				
contrary to our records. Howe				
slight differences in regard t				
ratios of salts that are very				
cantly higher levels of salts.				
sible that it is receiving som				
water from the Morrow.		N		
		14 14 15 A	Of the same of	

Form Nd 3

ADDRESS LIST FOR:

SONAT EXPLORATION COMPANY LITTLEFIELD SWD PERMIT FOR DEEPENING

Schedule of Leasehold Operators within a one-half mile radius of the Sonat - Littlefield SWD located in unit letter "B" of Section 11, T-24-S, R-31-E, N.M.P.M., Eddy County, New Mexico.

Sonat Exploration Company Attn: Mr. Jim Brown 110 W. Louisiana St., Suite 500 Midland, Texas 79701

Louis Dreyfus Natural Gas Corporation 14000 Quail Springs Parkway, Suite 600 Oklahoma City, Oklahoma 73134

Merit Energy Company 12222 Merit Drive, Suite 1500 Dallas, Texas 75251

Pogo Producing Company P. O. Box 10340 Midland, Texas 79702-7340

Santa Fe Energy Operating Partners, L.P. 550 W. Texas, Suite 1330 Midland, Texas 79701

1	US Postal Service Receipt for Cert No Insurance Coverage F Do not use for Internation Sent to Street & Number Post Office, State, & ZIP Cod	Provided. nal Mail (See reverse)
	Postage	\$ 1.30
	Certified Fee	
	Special Delivery Fee	
10	Restricted Delivery Fee	1.20
1999	Return Receipt Showing to Whom & Date Delivered	
April	Return Receipt Showing to Whom, Date, & Addressee's Address	
800,	TOTAL Postage & Fees	\$3.60
PS Form 3800 , April 1995	Postmark or Date	

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write "Return Receipt Requested" on the mailpiece below the article "The Return Receipt will show to whom the article was delivered and delivered.	e does not e number. d the date	2. Restricte Consult postmas	s (for an ee's Address
IN ADDRESS completed on	3. Article Addressed to: Page Producing Co. P.O. Box 10340 Midland, TX 79702- 7340	4b. Service 1 ☐ Registere ☐ Express I	Fype ad Mail ceipt for Merchandise	COD COD
Is your RETURN	5. Regeived By: (Print Name) 6. Signature (Addressee or Agent) X PS Form 3811, December 1994	8. Addressee and fee is	o's Address (Only i paid) Domestic Retu	Than

	US Postal Service	
	Receipt for Cert	tified Mail
	No Insurance Coverage	
	Do not use for Internation	
	Santa Fe	Eneka 4
	Street & Number	J) -
	Post Office, State, & ZIP Cod	е
	Postage	\$
	Certified Fee	1.35
	Special Delivery Fee	
r.	Restricted Delivery Fee	1.20
199	Return Receipt Showing to Whom & Date Delivered	
PS Form 3800, April 1995	Return Receipt Showing to Whom, Date, & Addressee's Address	
800	TOTAL Postage & Fees	\$ 3.60
6	Postmark or Date	
E		
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