



SIETE OIL & GAS CORPORATION

Petroleum Building Suite 200
P.O. Box 2523 Roswell, New Mexico 88202
Telephone (505) 622-2202

August 2, 1989

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dave Catanach

Re: Request for Administrative Approval
for Salt Water Disposal
Tuesday Federal No. 1
810' FSL & 990' FWL
Section 34: T-19-S, R-29-E
Eddy County, New Mexico

RECEIVED

AUG 4 1989

OIL CONSERVATION DIV.
SANTA FE

Dear Mr. Catanach:

Please find attached a Form C-108 requesting approval to convert the Tuesday Federal No. 1 well to a salt water disposal well. If all attachments are satisfactory, and no offset Working Interest Owners object, Siete respectfully requests approval be granted administratively.

Siete plans to dispose of the water in the Parkway Delaware Field into the Bone Springs Formation (6520'-6614'). The Bone Springs appears to be unproductive in the area in this zone. The maximum anticipated injection rate will be 1000 BWPD at an injection pressure not to exceed 1300 PSI. If injection pressures need to be increased, a State witnessed step-rate test will be run.

If you have any questions, or if I can be of any assistance, please do not hesitate to call me at (505) 622-2202.

Sincerely,

SIETE OIL AND GAS CORPORATION

Robert Lee

Robert Lee
Senior Reservoir Engineer

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Siete Oil and Gas Corporation

Address: P. O. Box 2523 Roswell, New Mexico 88202

Contact party: Eddie Rodriguez Phone: (505) 622-2202

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

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

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

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

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

XIV. Certification

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

Name: Eddie Rodriguez Title Production/Reservoir Engineer

Signature: Eddie Rodriguez RSR. Date: 7/20/89

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

III. WELL DATA

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

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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



SIETE OIL & GAS CORPORATION

*Petroleum Building Suite 200
P.O. Box 2523 Roswell, New Mexico 88202
Telephone (505) 622-2202*

SIETE OIL AND GAS CORPORATION

Tuesday Federal No. 1 - Convert to SWD

NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular Data

1. Lease: Tuesday Federal Lease

Well No.: 1

Location: 810' FSL & 990' FWL
Section 34: T19S, R29E
Eddy County, New Mexico

2. Casing: 13 - 3/8" surface @ 1100' w/775 sks.
9 - 5/8" intermediate @ 2972' w/775 sks.
7" production @ 11,908 w/2000 sks.
T.O.C. @ 3552' (est.)

Note: CBL only run to 5790', had good cement to that depth.

3. Injection tubing: \pm 202 jts. 2 - 3/8", 4.7 lb./ft.,
J-55 internally plastic coated tubing.
4. Packer: Baker Model AD-1 injection packer set @ 6470 feet.

B. Other well information

1. Injection formation: Bone Spring
Field: Undesignated
2. Proposed perforated interval from 6520'-6614'.
3. The Tuesday Federal No. 1 well was originally drilled for oil and gas production.

Tuesday Federal No. 1 - Convert to SWD

Page 2

4. The Tuesday Federal No. 1 was previously a dual Morrow (11,069' - 11,099') and Wolfcamp (9292'-9804') producer. These zones are now depleted and non-commercial. Details on plugbacks shown on attached wellbore diagram.
5. Within the area of the Tuesday Federal No. 1, the Yates formation (1320' - 1450') is potentially oil productive however, it is non-commercial at present product prices. The next lower zone is the Wolfcamp (9292' - 9804') which has been completed and depleted.

SIETE OIL & GAS CORPORATION
Proposed Salt Water Disposal Well

LOCATION:

WELL: TUESDAY FEDERAL NO. 1
FIELD: BURTON FLATS, EAST
STATUS: TEMPORARILY ABANDONED

810' FSL & 990' FWL
SEC. 34, T-19S, R-29E
EDDY COUNTY, N.M.

=====

PRESENT COMPLETION

ELEVATION: 3358' KB

ZERO: 18' AGL

13 3/8", 48#, H-40 ST&C @ 1100'
W/ 700 SXS

9 5/8", 36#, K-55, ST&C @ 2972'
W/ 775 SXS

** <==== ESTIMATED TOC @ 3552'
* *

-- DV TOOL @ 5850' DID NOT CIRC. UPON OPENING.

<== MODEL "R" PKR 9270'

* <== WOLFCAMP PERFS @ 9292'-9329' W/ 4 JSPF
* <== DEPLETED

==== <== CIBP @ 9770' W/ 8 SXS

X -CISCO PERFS 9805'-10200' (SQZD)

==== <== CIBP @ 11,020' W/ 8 SXS

XXXXX <== BAKER MODEL A-3 LOK-SET PKR @ 11044' LEFT IN HOLE

* UPPER MORROW PERFS 11069-11099 W/ 8 SPF
* CUM - 1.3 BCF NOW DEPLETED

==== CIBP @ 11500' W/ 7 SXS(30')

* LOWER MORROW PERFS 11582-11610
* NON-COMMERCIAL

JUNK

<-- 7", 26#, J-55 & L-80 CASING @ 11,908' W/ 2000 SXS

TD - 12,000'
PBTD - 9,770'

JUNK - 10' 2-3/8" TUBING + 4' FIRING HEAD + 28' (5" DIA.) PERF GUN

DRAWN: EDDIE RODRIGUEZ, JUNE 1, 1989

SIETE OIL & GAS CORPORATION

LOCATION:

WELL: TUESDAY FEDERAL NO. 1 - SWD

810' FSL & 990' FWL

FIELD: BURTON FLATS, EAST

SEC. 34, T-19S,R-29E

STATUS: TEMPORARILY ABANDONED

EDDY COUNTY, N.M.

=====

PROPOSED COMPLETION

ELEVATION: 3358' KB

ZERO: 18' AGL

EQUIPMENT IN HOLE

202 JTS. 2-3/8"

8RD INTERNALLY

PLASTIC COATED TBG **

W/ AD-1 INJECTION PKR *

@ 6470'

13 3/8", 48#, H-40 ST&C @ 1100'

W/ 700 SXS

9 5/8", 36#, K-55, ST&C @ 2972' w/ 775 sxs

** <==== ESTIMATED TOC @ 3552' CBL ONLY RUN TO 5790'

*

]-- DV TOOL @ 5850' DID NOT CIRC. UPON OPENING.

[<== BAKER MODEL AD-1 INJECTION PACKER @ 6470'

* <== PROPOSED INJECTION INTERVAL @ 6520' - 6614'

*

==== <== CIBP @ 9000' W/ 8 SXS

* <== WOLF CAMP PERFS @ 9292'-9329' W/ 4 JSPF

* <== DEPLETED

==== <== CIBP @ 9770' W/ 8 SXS

X -CISCO PERFS 9805'-10200' (SQZD)

==== <== CIBP @ 11,020' W/ 8 SXS

XXXXX <== BAKER MODEL A-3 LOK-SET PKR @ 11044' LEFT IN HOLE

* UPPER MORROW PERFS 11069-11099 W/ 8 SPF

* CUM - 1.3 BCF NOW DEPLETED

==== CIBP @ 11500' W/ 7 SXS(30')

* _ LOWER MORROW PERFS 11582-11610

* NON-COMMERCIAL

JUNK

<-- 7", 26#, J-55 & L-80 CASING @ 11,908' W/ 2000 SXS

TD - 12,000'

PBTD - 9,770'

JUNK - 10' 2-3/8" TUBING + 4' FIRING HEAD + 28' (5" DIA.) PERF GUN

DRAWN: EDDIE RODRIGUEZ, JUNE 1, 1989

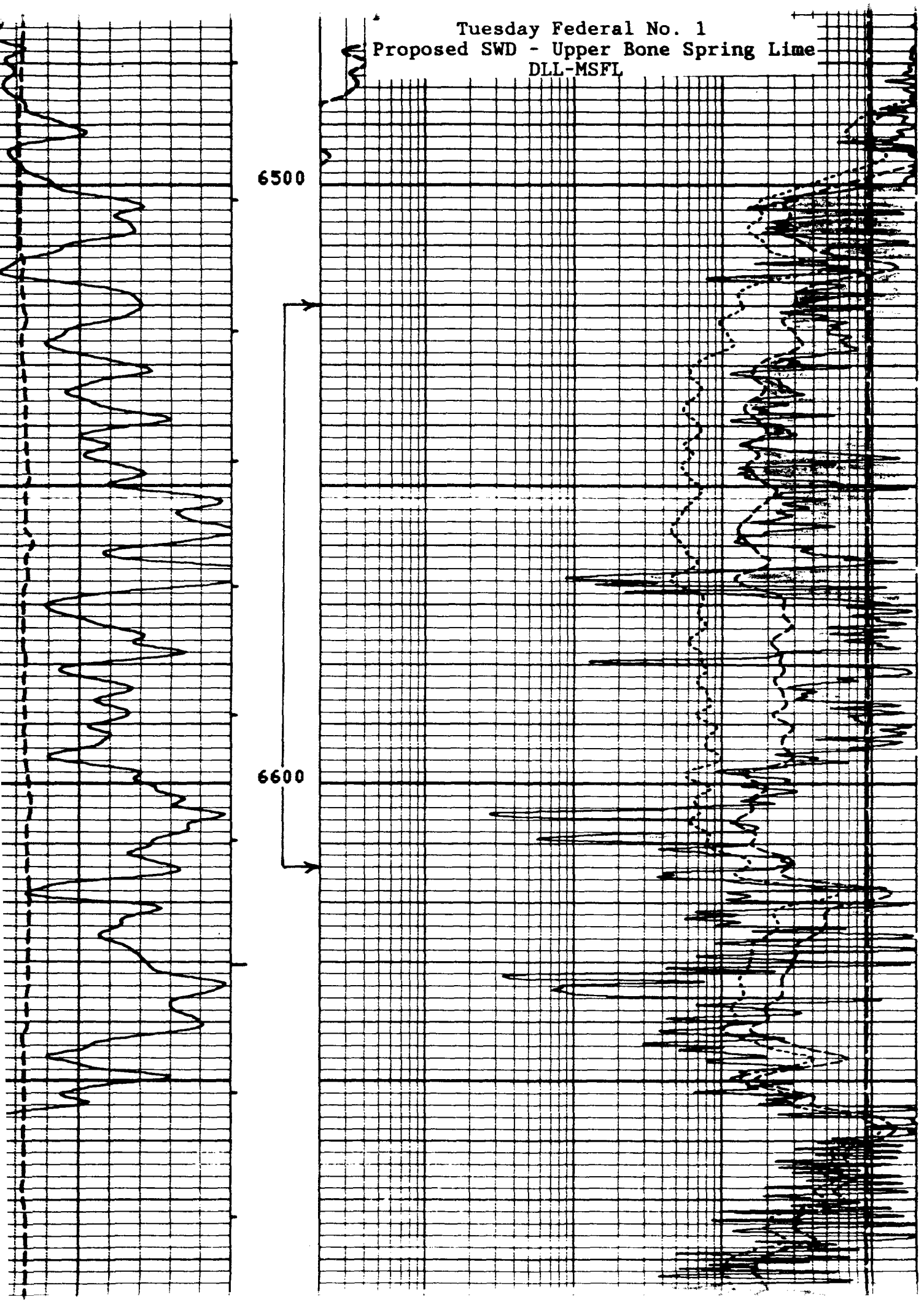
NMOCD - Form C-108 Sec. III

PROPOSED

Tuesday Federal No. 1
Proposed SWD - Upper Bone Spring Lime
DLL-MSFL

6500

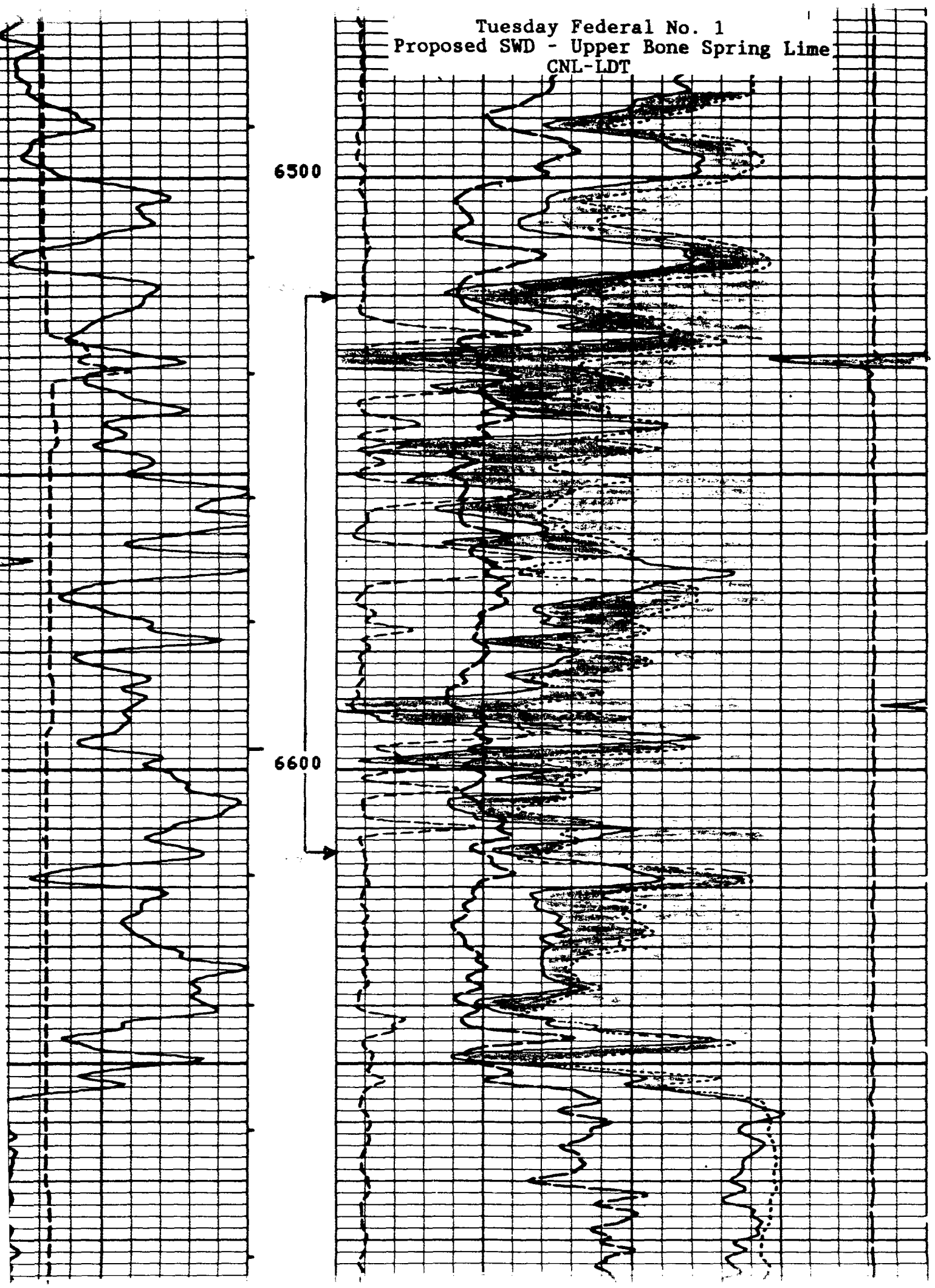
6600



Tuesday Federal No. 1
Proposed SWD - Upper Bone Spring Lime
CNL-LDT

6500

6600



SIETE OIL AND GAS CORPORATION

TUESDAY FEDERAL NO. 1 - CONVERT TO SWD

NMOCD Form C-108 Section VI

AUG 4 1989

The following wells are within the area of review (1/2) mile of Siete, ^{OIL} CONSERVATION DIV.
Tuesday Federal No. 1 proposed salt water disposal conversion. SANTA FE

<u>Well Name</u>	<u>Location</u>	<u>O/G</u>	<u>TD</u>	<u>Casing</u>	<u>Comp. Interval</u>
Siete O & G Tuesday Federal No.1 Spudded 1/11/85	810' FSL & 990" FWL Sec. 34: T19S, R29E Eddy County, NM	Shutin Oil/Gas	12,000'	13 3/8" Surface Casing @ 1100' w/700 sks. 9 5/8" Intermediate Casing @ 2972' w/775 sks. 7" Production Casing @ 11,908' w/2000 sks.	Morrow 11,069' - 11,099' Wolfcamp 9292' - 9304'
Conoco, Inc. Tuesday Federal No.2 Spudded 6/25/85	810' FSL & 375' FWL Sec. 34: T19S, R29E Eddy County, NM	Oil	1745'	8 5/8" Surface Casing @ 398' w/250 sks. 5 1/2" Production Casing @ 1745' w/530 sks.	Yates 1340' - 1384'
Conoco, Inc. Tuesday A Federal No.1 Spudded 4/28/86	1400' FNL & 990'FWL Sec. 3 : T20S, R29E Eddy County, NM	Oil	11,700'	16" Surface Casing @ 300' w/505 sks. circ. 9 5/8" Intermediate Casing @ 3230' w/2365 sks. circ. 7" Production Casing @ 9613' w/1360 sks. circ.	Wolfcamp 9310' - 9378' CIBP @5914' Bone Spring 5834' - 5853'
Donnelly Drlg. Co. Honolulu "A" No.1 Spudded 10/23/58	1980' FSL & 660' FWL Sec. 34: T19S, R29E Eddy County, NM	*D&A	2500'	* 5/8 Surface Casing @ 250' w/25 sks. No Production Casing	N/A
Rebel Oil Co. Honolulu Federal No.1 Spudded 3/18/57	330' FSL & 1650' FWL Sec. 34: T19S, R29E Eddy County, NM	*D&A	2500'	7" Surface Casing @ 300' No information available and no schematic was made	N/A

*Honolulu "A" No. 1 - (see attached wellbore schematic)

WELL: Honolulu "A" No. 1 LOCATION:
FIELD: Undesignated-7 Rivers 1980' FSL & 660' FWL
INTERVAL: Section: 34: T19S, R29E
Camp: November 5, 1958 Eddy County, N.M.
API # :
Spudled 10/23/58

ZERO: 8' AGL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

SURFACE CASING- Ran 8 5/8" 24# (242') Surface Casing @
with 25 sks.

```
|XXX|<--3rd plug with 10 sks. from 250' - 220'.
```

```
|xxx|<--2nd plug with 10 sks. from 1050' - 1020'.
```

```
|xxx|<-- 1st plug with 10 sks. from 1591' - 1560'.
```

T.D. : 2500'

ILLEGIBLE



SIETE OIL & GAS CORPORATION

*Petroleum Building Suite 200
P.O. Box 2523 Roswell, New Mexico 88202
Telephone (505) 622-2202*

SIETE OIL AND GAS CORPORATION

Tuesday Federal No. 1 - Convert to SWD

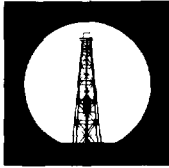
NMOCD Form C-108 Section VII - XIII

VII. Injection Data

1. Injection Rates
 - a. Proposed average daily water injection is 400 BWPD.
 - b. Maximum rate of daily water injection is 1000 BWPD.
2. The injection station for the gathering and produced water will be a closed system.
3. Injection pressures
 - a. Proposed average daily injection pressures 500 PSI.
 - b. Maximum daily injection pressure is 1300 PSI.*

*Note: Maximum injection pressure abides by .2 PSI/ft. maximum injection pressure imposed by NMOCD. Future necessary increases in surface pressure will be obtained administratively from the NMOCD using field obtained "Step Rate Test" data.

4. Chemical analysis of injection and representative formation water (See attached Nalco water analysis).
 - a. Proposed injection fluid will be produced water from offsetting Siete operated leases which currently produce from the Parkway Delaware formation. These leases are the Osage Federal lease (W/2, SE/4, SW/4 Section 35, T18S, R29E) and the Renegade Federal lease (S/2, NW/4, SW/4, SW/4 Section 35, T18S, R29E) in Eddy County, New Mexico.
 - b. A sample of formation water from the Bone Springs Formation was obtained from the Strata operated Petco State well located 330 FSL & 330 FEL in Section 26: T19S, R29E. The compatibility analyses indicates a CaSO₄ scaling tendency. The injected water will be chemically treated to keep this problem to a minimum.
5. Water injection will be into a zone not productive of oil and gas. See attached Nalco report for chemical analysis of formation water.



SIETE OIL & GAS CORPORATION

*Petroleum Building Suite 200
P.O. Box 2523 Roswell, New Mexico 88202
Telephone (505) 622-2202*

SIETE OIL AND GAS CORPORATION

Tuesday Federal No. 1 - Convert to SWD

NMOCD Form C-108 Section VIII - XI

VIII. Geologic Data

The proposed injection interval in the Tuesday Federal No. 1 SWD is the upper Bone Spring formation. This formation is a shaley limestone with occasional sand stringers of Permian (Leonardian) age. The formation is encountered at a depth of approximately 5650' and is approximately 1500' thick. The average thickness of the proposed injection interval is 160' and has demonstrated effective porosity and permeability as a lost circulation zone during drilling. Aquifers containing drinking water in the area are the Rustler at a depth of 190' and the Salado at a depth of 350'.

IX. Proposed Stimulation

The proposed injection interval will be perforated (6520'-6614') and acidized with 2000 gallons of 15% HCl acid.

X. Test Data

The Tuesday Federal No. 1 has cumulative recoveries of 1.3 BCFG and 8 MBC from the Burton Flats Morrow, and 13 MBO and 324 MMCF from the East Burton Flats Wolfcamp interval. These zones are fully depleted and can no longer produce in commercial quantities. The logs have already been submitted.

XI. Chemical Analysis of Fresh Water

A review was made for fresh water wells of record within a one mile radius of the proposed SWD. The only producing fresh water of record is owned by Conoco and is located in the E/2 SW/4 NW/4 of Section 3, T20S, R29E. There is no water analysis for this well but a water analysis was found on another well in Section 3. The chlorides for this well are as follows:

2/7/1927	Chlorides = 9
12/13/1948	Chlorides = 16
4/29/1950	Chlorides = 18

It is not known whether this tested well is still producing fresh water.

Tuesday Federal No. 1 - Convert to SWD
NMOCD Form C-108 Section VIII - XI

Page 2

XII. I, Eddie Rodriguez, a Production/Reservoir Engineer for Siete Oil and Gas Corporation and in behalf of, have compiled and examined all available geologic and engineering data and have not found any evidence of hydrologic connections between the proposed Tuesday Federal No. 1 injection zone and existing sources of underground drinking water.

XIII. Proof of Notice - requirements

1. See attached mailing list and registered mail certificates.

VISCO Water Compatibility ReportPrepared for SIETE OIL & GAS
ROSWELL, NEW MEXICOWESTENBURG, ELDON, R.
NALCO Chemical Company
30-JUN-89PRODUCED WATER
Sample Date : 06/23/89
Water Source : OSAGE'FRESH WATER
06/23/89
Bone Spring ZonePage 1

Temperature Degrees F	Water Mixture (Fresh/Produced)	CaCO3 Index Stiff-Davis units	CaSO4 Index Skillman units	Actual CaSO4 Mg/L
60	0 /100	*	0.43	24.42
	20 / 80	*	0.34	20.65
	40 / 60		0.05	15.53
	50 / 50		-0.17	12.57
	60 / 40		-0.38	9.29
	80 / 20		-0.77	0.99
	100 / 0		-1.17	-15.69
80	0 /100	*	0.66	24.47
	20 / 80	*	0.57	20.70
	40 / 60		0.27	15.52
	50 / 50		0.02	12.48
	60 / 40		-0.19	9.12
	80 / 20		-0.57	0.75
	100 / 0		-0.97	-15.99
100	0 /100	*	0.94	24.34
	20 / 80	*	0.85	20.69
	40 / 60		0.53	15.57
	50 / 50		0.26	12.52
	60 / 40		0.05	9.13
	80 / 20		-0.33	0.68
	100 / 0		-0.73	-16.24
120	0 /100	*	1.28	23.73
	20 / 80	*	1.19	20.49
	40 / 60		0.83	15.84
	50 / 50		0.54	12.97
	60 / 40		0.33	9.68
	80 / 20		-0.05	1.11
	100 / 0		-0.45	-16.36

VISCO Water Compatibility Report

Prepared for SIETE OIL & GAS
ROSWELL, NEW MEXICO

WESTENBURG, ELDON, R.
NALCO Chemical Company
30-JUN-89

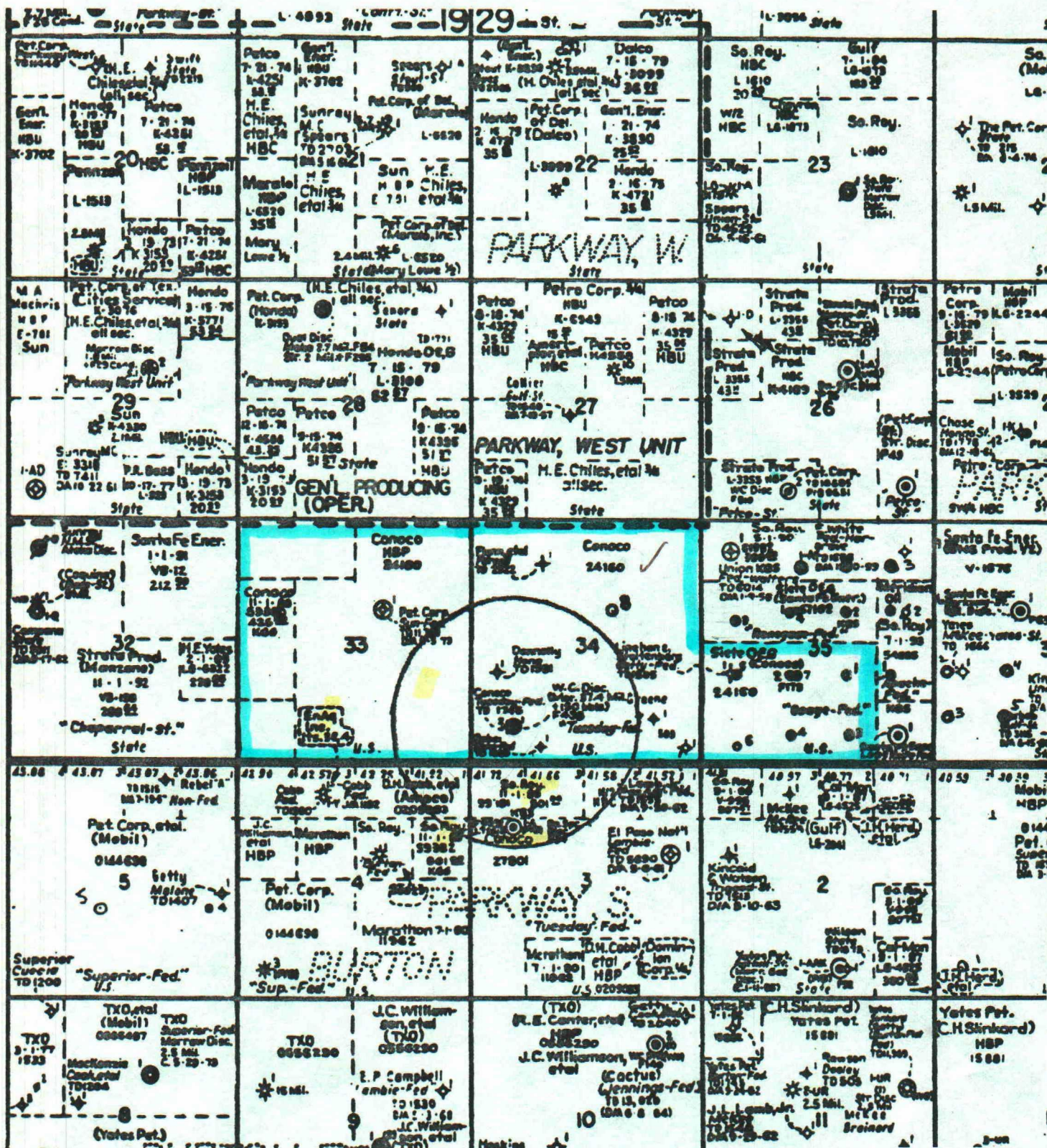
PRODUCED WATER
Sample Date : 06/23/89
Water Source : OSAGE'

FRESH WATER
06/23/89
Bone Spring Zone,

Page 2

Temperature Degrees F	Water Mixture (Fresh/Produced)	CaCO3 Index Stiff-Davis units	CaSO4 Index Skillman units	
140	0 /100	*	1.67	23.76
	20 / 80	*	1.58	20.30
	40 / 60		1.16	15.81
	50 / 50		0.87	13.09
	60 / 40		0.67	9.99
	80 / 20		0.27	1.82
	100 / 0		-0.13	-15.42
160	0 /100	*	2.12	23.85
	20 / 80	*	2.02	20.12
	40 / 60		1.54	15.73
	50 / 50		1.25	13.18
	60 / 40		1.05	10.27
	80 / 20		0.64	2.55
	100 / 0		0.23	-14.34
180	0 /100	*	2.62	23.94
	20 / 80	*	2.52	19.93
	40 / 60		1.97	15.66
	50 / 50		1.67	13.26
	60 / 40		1.47	10.55
	80 / 20		1.05	3.29
	100 / 0		0.63	-13.25

* At this temperature and total ionic strength, the value of "K" exceeds reported values. The index number given is estimated and if positive, scaling is expected.



Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,
on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit;

July 31, 19 89
_____, 19 ____
_____, 19 ____
_____, 19 ____

that the cost of publication is \$ 8.56 ,
and that payment thereof has been made
and will be assessed as court costs.

E C Cantwell

Subscribed and sworn to before me this

1 day of July, 19 89
Dorella Taylor

My commission expires 6/01/92
Notary Public

July 31, 1989

This is to advise all parties concerned, State Oil and Gas Corporation intends to conduct the following test to a Salt Water Disposal well:

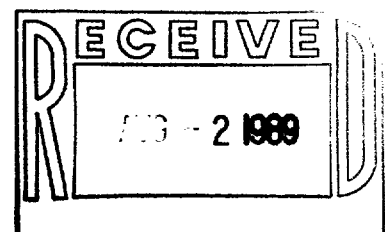
Test Well: Federal #1
Location: T-15, S-26, R-10E
County: Eddy, New Mexico

The formation to be tested into is the Permian, consisting of a thickness of 6520' to 6815'. The estimated expected production rate is 1000 BWPD at a maximum injection pressure of 1500 psi. Questions can be addressed to:

State Oil and Gas Corporation
P.O. Box 2500
Attention: Robert Lee
Roswell, New Mexico 88201
Phone (505) 625-2000

Interested parties must present objections or requests for hearing within 15 days of this notice to the:

Oil Conservation Division
P.O. Box 2080
Santa Fe, New Mexico 87501



the 1990s, the number of people in the United States who are 65 years of age or older is projected to increase from 20 million to 30 million, and the number of people 75 years of age or older is projected to increase from 10 million to 15 million (U.S. Census Bureau, 1996). The number of people 85 years of age or older is projected to increase from 2 million to 4 million (U.S. Census Bureau, 1996). The number of people 90 years of age or older is projected to increase from 500,000 to 1 million (U.S. Census Bureau, 1996). The number of people 95 years of age or older is projected to increase from 100,000 to 200,000 (U.S. Census Bureau, 1996). The number of people 100 years of age or older is projected to increase from 10,000 to 20,000 (U.S. Census Bureau, 1996).

1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

3. *Phragmites* spp. (Cyperaceae) (Fig. 10)

the 1990s, the number of people in the world who are illiterate has increased from 1.2 billion to 1.5 billion. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015. The number of illiterate people in the world is projected to reach 1.7 billion by the year 2015.

the 1990s, the number of people in the world who are illiterate has increased from 400 million to 500 million. The number of illiterate people in the world is expected to increase to 600 million by the year 2015. The number of illiterate people in the world is expected to increase to 700 million by the year 2020. The number of illiterate people in the world is expected to increase to 800 million by the year 2025. The number of illiterate people in the world is expected to increase to 900 million by the year 2030. The number of illiterate people in the world is expected to increase to 1 billion by the year 2035. The number of illiterate people in the world is expected to increase to 1.1 billion by the year 2040. The number of illiterate people in the world is expected to increase to 1.2 billion by the year 2045. The number of illiterate people in the world is expected to increase to 1.3 billion by the year 2050. The number of illiterate people in the world is expected to increase to 1.4 billion by the year 2055. The number of illiterate people in the world is expected to increase to 1.5 billion by the year 2060. The number of illiterate people in the world is expected to increase to 1.6 billion by the year 2065. The number of illiterate people in the world is expected to increase to 1.7 billion by the year 2070. The number of illiterate people in the world is expected to increase to 1.8 billion by the year 2075. The number of illiterate people in the world is expected to increase to 1.9 billion by the year 2080. The number of illiterate people in the world is expected to increase to 2 billion by the year 2085. The number of illiterate people in the world is expected to increase to 2.1 billion by the year 2090. The number of illiterate people in the world is expected to increase to 2.2 billion by the year 2095. The number of illiterate people in the world is expected to increase to 2.3 billion by the year 2100.



SIETE OIL & GAS CORPORATION

*Petroleum Building Suite 200
P.O. Box 2523 Roswell, New Mexico 88202
Telephone (505) 622-2202*

RECEIVED

**AUG 16 1989
OIL CONSERVATION DIV
SANTA FE**

August 15, 1989

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. David Catanach, Petroleum Engineer

Addendum: Tuesday Federal No. 1 - Salt Water Disposal Request

Dear Dave:

As per my phone conversation today with Mr. Jim Bruce, Hinkle Law Firm in Albuquerque, the following facts may help to expedite approval of the above request.

1. Siete Oil & Gas Corporation, through a Conoco Inc. farmout, is the operator of all the highlighted acreage on the attached plat (Section 33 (all), Section 34 (all) & SW/4, S/2 NW/4, SW/4 NE/4, W/2 SE/4 Section 35, T-19S, R-29E Eddy County, NM.

The following entities received notification as per the registered mail receipts (see attached).

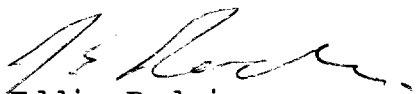
2. Mr. Garel Westall present operator (previously Conoco, Inc.) of all of Section 3, (excluding SE/4 SW/4 & SW/4 SE/4) T-20S, R-29E Eddy County, NM.
3. Conoco Inc., though no longer an operator within the area of review.
4. Meridian Oil Corporation, the operator of the southwestern offsetting East Burton Flat Strawn gas well, the Burton Federal 4 Com. No. 1, Unit letter G, Section 4, T-20S, R-29E Eddy County, NM.
5. Amoco Production, operator in the N/2 N/2 of Section 4, T-20S, R-29E Eddy County, NM.
6. Bureau of Land Management, Carlsbad Office

This list accounts for the offset parties which we believe require notification. Please indicate any other parties which you feel also need notification, we will happily submit these notices promptly. Kindly refer all questions to Mr. Robert Lee or myself

in this office at (505) 622-2202.

Yours very truly,

SIETE OIL & GAS CORPORATION

A handwritten signature in dark ink, appearing to read 'E. Rodriguez', with a stylized flourish at the end.

Eddie Rodriguez
Production/Reservoir Engineer

cc: Mr. Robert Lee, Senior Reservoir Engineer
Mr. Jim Bruce, Hinkle Law Firm, Albuquerque, NM

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Bureau of Land Management P. O. Box 1778 Carlsbad, NM 88220	4. Article Number P 035 901 508 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature - Address X <i>John A. Roy</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery 7-21-89	

PS Form 3811, Mar. 1988

* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Meridian Oil 21 Desta Drive Midland, TX 79705	4. Article Number P 035 901 471 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Robert McQueen</i>	
7. Date of Delivery JUL 21 1989	

PS Form 3811, Mar. 1988

* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Conoco, Inc. P. O. Box 460 Hobbs, NM 88240	4. Article Number P 035 901 468 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Robert Hill</i>	
7. Date of Delivery 6/21/89	

PS Form 3811, Mar. 1988

* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Enaq P. O. Box 73406 Houston, TX 77253 Attn:		4. Article Number P 035 901 470
		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
		Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X		8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Danny Crawford</i>		
7. Date of Delivery <i>7/28/89</i>		

PS Form 3811, Mar. 1988

* U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. Garek Westall 704 W. Bullock Artesia, NM 88210		4. Article Number P 035 901 473
		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
		Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X <i>Garek Westall</i>		8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X		
7. Date of Delivery <i>7-29-89</i>		

PS Form 3811, Mar. 1988

* U.S.G.P.O. 1988-212-865

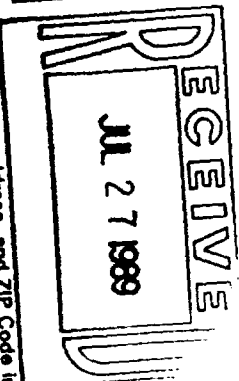
DOMESTIC RETURN RECEIPT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

- Print your name, address and ZIP Code in the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
 - Attach to front of article if space permits, otherwise affix to back of article.
 - Endorse article "Return Receipt Requested" adjacent to number.



PENALTY FOR PRIVATE USE, \$300



RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

State Oil & Gas Corporation

P. O. Box 2523

Roswell, NM 88202-2523

● **SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:

Amoco
P. O. Box 3092
Houston, TX 77253

Attn: Ms. Emily Goodfellow

4. Article Number

P 035 901 469

- Type of Service:
- ☐ Registered
 - ☒ Certified
 - ☐ Express Mail
 - ☐ Insured
 - ☐ COD
 - ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

8. Addressee's Address (ONLY if requested and fee paid)

5. Signature - Address

X

6. Signature - Agent

X

7. Date of Delivery

JUL 24 1989