1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

January 29, 1992

New Mexico Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504 OIL CONSERVATION

Attention: David Catanach

Dear Mr. Catanach,

Enclosed please find our application for authorization to inject for the Tom "36" State #2 in Section 36 T7S-R31E of Chaves County, NM.

Sincerely,

David Moore Engineer

of the earlier submittal.

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

FORM C-108 Revised 7-1-81

I.	Purpose: Secondary Recovery XX Press Application qualifies for administrative	sure Maintenance Disposal Disposal Storage approval? Dyes Do
II.	Operator: Sandstone Oil & Gas	
	Address: 1330 East 8TH Street Ste. 304	
	Contact party: David Moore	Phone: 915-334-8531
III.	Well data: Complete the data required on to proposed for injection. Additi	the reverse side of this form for each well conal sheets may be attached if necessary.
IV.	Is this an expansion of an existing project If yes, give the Division order number auth	
٧.	Attach a map that identifies all wells and injection well with a one-half mile radius well. This circle identifies the well's ar	circle drawn around each proposed injection
* VI.	Attach a tabulation of data on all wells of penetrate the proposed injection zone. Sucwell's type, construction, date drilled, loa schematic of any plugged well illustration.	cation, depth, record of completion, and
VII.	Attach data on the proposed operation, incl	uding:
	<ol> <li>Whether the system is open or close</li> <li>Proposed average and maximum inject</li> <li>Sources and an appropriate analysis         <ul> <li>the receiving formation if other</li> </ul> </li> <li>If injection is for disposal purposat or within one mile of the proposal</li> </ol>	cion pressure; s of injection fluid and compatibility with than reinjected produced water; and ses into a zone not productive of oil or gas bosed well, attach a chemical analysis of c (may be measured or inferred from existing
*VIII.	Attach appropriate geological data on the indetail, geological name, thickness, and depottom of all underground sources of drinking total dissolved solids concentrations of linjection zone as well as any such source injection interval.	ing water (aquifers containing waters with 1,000 mg/l or less) overlying the proposed
IX.	Describe the proposed stimulation program,	if any.
* X.	Attach appropriate logging and test data or with the Division they need not be resubmit	
* XI.	Attach a chemical analysis of fresh water is available and producing) within one mile of location of wells and dates samples were to	f any injection or disposal well showing
XII.	Applicants for disposal wells must make an examined available geologic and engineering or any other hydrologic connection between source of drinking water.	data and find no evidence of open faults
XIII.	Applicants must complete the "Proof of Noti	ice" section on the reverse side of this form.
XIV.	Certification	
	I hereby certify that the information submit to the best of my knowledge and belief.	itted with this application is true and correc
	Name: David Moore	Title Partner
	Signature: /www.	Date: 1/27/91

Items # VI, VIII & W Submitted To The State When well was

#### 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 on 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.

#### C-108

# APPLICATION FOR AUTHORIZATION TO INJECT SANDSTONE OIL & GAS TOM "36" STATE #2 CHAVES COUNTY, NEW MEXICO

- I. The purpose of converting this well is to make a disposal well for produced San Andres water into the San Andres formation.
- II. Operator: Sandstone Oil & Gas

1330 E. 8th St., Suite 304

Odessa, Texas 79761

- III. Well Data: See attached diagram.
  - IV. This is not an expansion of an existing project.
  - V. See attached map.
- VI. Wells within this area of review penetrate the proposed injection zone; well bore schematics are attached.
- VII. 1. Proposed daily injection volume approximately 200 BWPD.

  Maximum daily injection approximately 400 BWPD.
  - 2. This will be a closed system.
  - 3. Proposed average injection pressure: 0 300#. Proposed average maximum injection pressure: 800#.
  - 4. Sources of injected water would be produced water from the San Andres zone on same lease with no compatibility problems.
  - 5. Chemical analysis of produced water from existing wells is attached.
- VIII. 1. The proposed injection interval is the portion of the San Andres formation consisting of dolomite from estimated depths of 3950' to 4300'.
  - 2. There are no fresh water wells within one mile.
  - IX. No initial stimulation is required, because the well will take fluid on vacuum.
    - X. Logs were filed with the State of New Mexico when the well was drilled in 1979.
  - XI. No windmills or fresh water wells exist within one mile of radius of the subject location.

XII. Sandstone Oil & Gas has examined geologic and engineering data and has found that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

#### XIII. Proof of Notice

- A. Certified letters sent to the offset operators.
- B. Copy of legal advertisement. (Attached)

XIV. Certification is signed.

	GAS	TOM "36" STATE		
OPERATOR		LEASE		
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<b>(3)</b>		Injection interval (Perf		
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SANdstone Oil & GAS UCTION PROHIBITES TOM "36" STATE # 1 Tops: (EL) Rustler Anhydtite Yates 2168', San And 3340' Casing: 8-5/8"1749'/750sx;5-1/2"4293'/400sx 15 mi SE/Boaz, 660'FNL, 660'FEL Sec\_36-78-31E UNION OIL CO. OF CALIFORNIA CHAVES COUNTY Comp Info: Perf(San And)4104-07,4111-13,4122-28,31-38' w/2 SPF Prod Zone: (San And), T/Pay 4104', Prod thru Perfs 4104-38' Spud: 7-9-79; Comp: 7-23-79; Elev: 4420 'Grd; TD: 4295 'San And; PB: 4252 Chaves County, New Mexico S/4 BO + 7 BW/5 hrs, A/4200 gals, F/185 CP Pkr, TP 240# 18/64"ch, TP 245#, ran DILL log, C/WEK CHAIT LETTER A, 640 FAIL + 660 FEC 518 BOPD + 58 BW/24 hr test thru 24/64"ch, Grav 23, GOR 432 Sec. 34 , Twp 7-5, RGE 31-E おおのからないのはないには、かんかいからないのはないのできる 京の後のはないかられることなるのではいけるでんない NEW MEXICO l Tom "36"State 1760', Salt 1780', Base Salt 2060', BO + 4 BW/24 hrs thru124" Hole UNDES IGNATED 849' 24# C 1749' Result CmT w/ 750 Sx Cement Cire To Surface OIL 1/10/79 EST. TOC 2,500' \$1-秦 京 是 斯 多 的 用 的 用 其 不 了 一 Perhasions 4104-4138 (34 Holes) 1718" Hile 512" 15.54 e 4295' CMT W/ 400 SX 50/50 P13

7/10/19

1985. REPRODUCTION PROHIBITED SANDSTONE OIL & GAS TION PROHIBITED UNION OIL OF CALIF, TOM 36 STRIE # 4 15 mi SE/Boaz; 1980'FSL, 1980'FEL Sec 36-7S-31E Tops EL: Rustler Anhy 1510', Yates 2128', San And 3272'
API No: 30-005-21015 Spud: 3-2-85; Comp: 4-17-85; Elev: 4393'Grd; TD: 4395'SADR; PB: Casing: 8-5/8"1670'/800sx; 5\"4395'/400 sx; 2-3/8"4010' Comp Info: ranDLL, MSFL, GRL, CNL, LDT logs, Rig Rel 3-13-85; Prod Zone: (SanAnd), Prod thru Perfs 3994-4300' IPP: 16 BOPD + 24 BW, Grav 19.9, GOR 530 no cores or DSTs; Perf 28% HCn + 7500 gals, 2% KCL; C/Rhymes #3 Chaves County, New Mexico UNIT LETTER I, 1980' FSL + 1980 FEL Sec 36, TWP 7-5, RGE. 31-E はないでは、これではない。これのひとでは、これには、これでは、本ではなるで 4 Tom "36" State のことは、大きのとのなるのである。 (San And) 3994-4300° NEW MEXICO TOMAHAWK ,A/30,000 gals Result: OIL Est TOC 2500'+1-おおおとからこれできることというけるないっということにない

1214" Hole 85/8" 24# C 1670' Contul 800SF CEMBAT CIRC. TO SURFACE 3/3/85

(174 h.65)

7 1/4" the 56 15.5# 04395' CMT W/ 400 Sx Class "" 3/14/85

SANDSTONE OIL + GAS

TOM 36' STATE # 5

Chaves County, New Mex. co

UNIT LETTER P, 660 FEL, 660 FSL

See 36, TWP 7-5, RGE, 31.E

TO KING IN WOOD IN

1244" Hole 878 24# @ 1510' Cont. W/ 7655x Coment Cir. To Surface 11/ 191

EST. TOC 2,500' +1.

Perhansuns 4089 - 4180 d (3.7 Holes) 71/8" I fole 51/2" 15,5# C 4300' Cont W/400 & SU/50 PC3

YATES PETRO Kum Coep. wh: 19 mi E/Elkins,660'FNL,1980'FEL of Sec 36-7S-31E CTION PROHIBITED Loveless LQ" STATE # 1 Comp Info: Ran SNP, DILL logs, Perf (San And) 4090', 4095', 4100', 4106-CHAVES COUNTY Tops: (EL) Rustler 1712', Salt 1748', Base Salt 2148', Base Salt Casing: 8-5/8" 1710'/700sx; 4-1/2" 4290'/300sx; 2-3/8" 4232' API NO: 30-005-20692 IPP: 40 BOPD + 65 BW; GOR 536; Grav 24 Prod Zone: (San And) T/Pay 4090', Prod thru perfs 4090-4162' Spud: 2-14-80; Comp: 5-3-80; Elev: 4422' Grd; TD: 4290' SADR; PB: 4250' 2148', San And 3290' 17',4121-23',4127',4134',4139',4154-62'\p/1 SPF,A/3000 gals(20%) Chaves County, New Mexico 660'FNL + 1980 FEL Sec. 36, TWP. 7-5, RGE. 31-E 江南子を書いては ないないはんないないないなんないない されないというとなっているので、ちゃかならいない NEW MEXICO 121/4" Hole TOMAHAWK Result 8% @ 1710 Cont w/ 20054 Cement Cac. To Sur hice TIO 2/80 DO Est. TOC 3100'+1-なけるからのではなれば、ましてからかのはななななない。 Perhammons 4090-4162 978 Hole 4/2 e 4250'

CmT w/ 300 Sx 50/50 poz

2/80

on innormation Corporation PROHIBITED Prod Zone: (SADR) T/Pay 4058', Prod thru Perfs 4058-4179' Casing:8 5/8"1679'/650sx,4 1/2"4298'/300sx-2 3/8"4108 Tops: (EL) Rustler 1693', Salado 1716', Yates 2117', Queen 2780'. Comp Info: Perf (SADR) 4058-4179 (OA) A/3000 gals, C/La Rue#2 Spud:7-16-81, Comp:8-21-81, Elev:4417'GL, TD:4298(SADR) PB:4251 IPP: 35 BOPD+38 BW, Gty 32, GOR 1000 SADR 3261'

API no:30-005-20787

15 mi SE/Boaz, Sec 36,7S-31E-1980 FNL-1980 FWL Sec

YATES PETROLEUM CORP. 2 Loveless"LQ"State

CHAVES COUNTY

NEW MEXICO

TOMAHAWK FIELD

OIL DO

YATES PETROPELLE CORP. Loveless LQ" STATE #2 Chaves County. New Mexico 1980' FNL & 1980' FWL Sec. 36, Twp. 7-5, RGE. 31-E

> 等ななとかいいれなないなのなではなれたれないかんといかり 13'4" Ifole 8518" C 1679' Cont W/ 650 SX Cement to Surface 7/81

> > Est. TOC 3100' +1-

17/8" /fole 41/2" C 4298" Cont w/3605x 50/50 foz 7/81

ださんかりまるかんのいなるがい

Perfuertions 4058-4179

a the southern his and a second the second s

ここのあるこれはからなるとないとなってものないないのであることのこと

oleum Information Corporation ON PROHIBITED Replaces Card 19 dated 1-10-79 to show correct producing interval 6 add log Orig reported 4210-48'.

tops;

Murphy Operating Company Come Federal # 5 Rossevelt County, New Mexico 1980' FNL & 660' FWL Sec. 31, Twp 7-5, RGE. 32-E

SUNDANCE OIL CO. 5 Cone Federal 15-1/2 mi S/Kenna; Sec 31-7S-32E; 1980' FNL 660' FWL of Sec; TOMAHAWK FIELD Result: OIL Ø

Spud: 10-25-78; Comp: 12-5-78; Elev: 4442' Grd; TD: 4330' San And; PB: 4289 Casing: 8-5/8" 1750/600 sx; 4-1/2" 4330'/300 sx;

A/5000 gals (20%); C/WEK Drlg.
, Yates 2190', San Andres 3340', PI Marker
.3 4238'.

1214" Hole 85/8" C 1750' Cont W/ 600 \$4 Coment To Sunface 10/18

京等の日本のはないからの日本の日本のとうなかで

EST. TOC 3100' +1-

7 1/5" Hole 442" e 4330' Cont W/ 3005x 50/50/02

Perhamions 4210:58'

Musphey Opening Company Cone Federal # Well: Loch: roleum Information Corporation Roose velt County, New Mexico ON PROHIBITED 1980 FNL, 1901 FWL Sec 31, TWP 1-5, 32-E SUNDANCE OIL CO. 12 Cone Federal 19 mi S/Elida, 1980' FNL, 1901' FWL Sec 31-75-32E Spud: 6-6-79; Comp.: 7-24-79; Elev: 4428'Grd; TD: 4305'San And; FB: 4260' Casing: 8-5/8" 1775'/450 sx; 4-1/2" 4305'/300 sx Prod Zone: (San And), T/Pay 4133', Prod thru Perfs 4133-4211' IPP: 34 BOPD + 40 BW, Grav 38, GOR NR ROOSEVELT COUNTY PP: 34 BOPD + 40 BW, Grav 38, GOR NR
 Comp Info: Perf (Sap And) 4123-36', 4139-41', 4155-59', 4164-69', 4171', 4187', 4192', 4207-11' w/2 SPF, A/5000 gals, C/WEK Salado 1780', Yates 2196', San And 3337' NEW MEXICO 12 4" Hole 85/8" Q 1975 cm T/ 450 5x TOMAHAWK PEID Cement To Surface Result: OIL DO EST. TOC 3100' +1-Perhantions 4133-4211 11/2" C 4305' emt W/300 SX 50/50 Az 6/19

160 1978

MURPHY OPERATING COMPANY CONE FEDERAL # 13 660' FWL + 1980' FSL Sec. 31 - Twp 7-5, RGE 32-E

ROOSEVELT LOUNTY, NEW MESICO

ROOSEVELT COUNTY

13 Cone Federal

NEW MEXICO

TOMAHAWK FIELD

Result. OIL

ocn 19 mi SW/Elida; Sec 31-7S-32E; 1980' FSL 660' FWL of Sec; (Orig Callo, Inc., 1 Shell-Federal, D&A 10,2-67,OT) 4295);

D Prod. Zone: (SanAnd) T/Pay 4147', F E IPP: 23 BOPD + 18 BW, GOR 695-1, G E Comp Info: Deepened 4295-4300', F O 4169-78', 4210-15', 4228-32' w D 2 Tops: NR D 2 API No: MX 20049 Casing: 8-5/8"330'/150sx; 4-1/2"4300'/760sx; Re-Spud: 6-29-79; Comp: 8-26-79; Elev: 4476 'DF; TD: 4300 'SA; PB: 4231 BW, GOR 695-1, Grav ,Prod thru Perfs 4147-4232 , Perf (San And) 4147-54', 4160-66',

4169-78',4210-15',4228-32' w/2SPF; A/6000 gals (20%);

Perharions 4147-4232

778" Hole 4/2" e 4300' CmTW/ 940 St 50/50 POZ 7/79

1214" Hoke

85/8"C 330' Cm+ W/ 150 St

TOC

Cement Cice TO Surface 9/67

Well SUNDANCE OIL CO. och 12 mi SE/Kenna, 660'FNL, 374'FWL of Sec SAPI No: 30-041-20509 oProd Zone: (San And), T/Pay 4094', Prod thru Perfs 4094-4175' Tops; (EL) San And 3306' Casing: 8-5/8"1764'/500sx; 4-1/2"4270'/300sx Spud: 11-27-79; Comp: 2-4-80; Elev: 4410'Grd; TD: 4270'San And; PB: ROOSEVELT COUNTY IPP:96 BOPD + 47 BW, Grav NR.GOR NR Comp Info: Perf (San And) 4094-4112; 4119-38; 4171-75', A/5000 gals, 20 Cone Federal NEW MEXICO 31-7S-32E Result TOMAHAWK FIELD 110

g

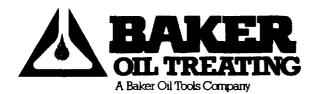
Munphy operating company Cone Federal # 20 Roose Velt County, New Mexico 660' FAL + 374' FWL Sec. 31, TWP 1-5, RGE 32E

> 124 /hile 85/8" € 1764' Cmt w/ 5005x Cement 10 Surface 11/19

EST. TOC 3100'+1-

Perfusions 4094-4195

71/8" Itole 4½" C 4270' Cont w/ 300 \$ 50/50 poz 12/19



#### WATER ANALYSIS for Union Calif

Date of Analysis: MARCH 23, 1987

Company: Union oil of Calif

State:

MM

Lease:

CATIONS

Tomi St. 36

Oil (bbl/day): Type of Water: N/DN/D

Sample Source:

Wellhead

Representative:

ndas (Madie), Lineaus du mendelse na di tra baddemaritim selekaristim det ha petro ad terro ad transfisa betresalitm

Joe Lewis

Analysis #:

1961

Company Address:

Lovington

Field:

M7.0

Well #:

#1

Water (bbl/day):

N/D

Temp.,C:

20

Date of Sampling: MARCH 20, 1987

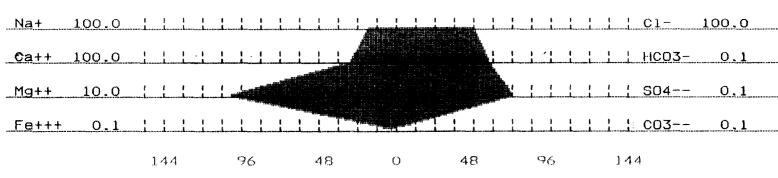
Analysis By:

Bob Wallace

 $50.00 \, \text{mg/l}$ 

#### WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



#### DISSOLVED SOLIDS

me/l

#### DISSOLVED GASES

Hydrogen sulfide:

	•		<del>-</del>			•••
Total Hardness :	3560.00		Carbon dioxi	de :	138,00	mg/1
Calcium, (Ca++) :	2560.00	51323.18	Oxygen	:	0.30	mg/l
Magnesium, (Mg++):	1000.00	12151.40				
Iron, (Fe+++) :	0.05	1.00	PHYSICAL PRO	PERTIES	<u>S</u>	
Barium, (Ba++) :	0.00	0.00				
Sodium, Na+(calc):	1523.86	35048.73	pН			
Manganese, (Mn++):	0.00	0.00	Spec Grav.	:	1.190	)
			TDS (calc.)	:77	79250.00	
ANIONS						
Chloride, Cl- :	5070.42	179993.61	SCALE STABIL	ITIES		
Sulfate, SO4:	7,49	360.00	Temp.,C C	aCO3	CaSO4	BaSO4
Carbonate, CO3:	0.00	0.00	20.0 N,	ďΣ	$M \setminus D$	N/D
Bicarbonate, HCO3-:	6.00	366.08	20.0 N,	/D	M/D	NAD
Hydroxyl,OH- :	0.00	0.00	20.0 N	/ D	M/D	N/D
Sulfide, S :	0.00	0.00	Max entity,	(calc.	) 1910	O
TOTAL SOLIDS (quant	. ):	456877.90	RESIDUAL HYD	ROCARBO	ONS: N	/ D

mg/l

N/D: not determined Remarks: At 20' C severe Calcium Carbonate scaling

At 20' c Calcilum Sulfate scaling is unlikely

Wellful

#### HALLIBURTON DIVISION LABORATOR

### HALLIBURTON SERVICES MIDLAND DIVISION

#### MIDLAND DIVISION HOBBS, NEW MEXICO 88240

#### LABORATORY WATER ANALYSIS

No. W79-761

ToUnion Oil Compan	y of California	Date 8-3-79					
Box 671 Midland, Texas		or disclosed without first securing the express written approvation of laboratory management; it may however be used in the					
Submitted by		Date Rec	8-2-79				
Well No. "36"	State #2 Depth	Formation	San Andres				
County	Field	Source					
Resistivity		•					
		-					
oH	5.6						
Calcium (Ca)	26,000		*MPL				
Magnesium (Mg)	4 1 00						
Chlorides (CI)	138,000						
Sulfates (SO <sub>4</sub> )	Light						
Bicarbonates (HCO <sub>3</sub> )	Nil						
Soluble Iron (Fe)	Medium						
Remarks:			*Milligrams per liter				
	Respectf	ully submitted,	-				
halyst: Jackson	•		HALLIBURTON COMPANY				
•		By W. Z. CHEMI	By W. L. Brewer				

NOTICE



#### WATER ANALYSIS for Oil Union $\sim f^{*}$ Calif

Date of Analysis: MARCH 23, 1987

Company:

Union Oil of Calif

State:

MM

Lease:

Tom St 36

Oil (bbl/day): Type of Water:

N/DN/D

Sample Source:

Wellhead

Representative:

Joe Lewis

Analysis #:

1962

Company Address:

Lovington

Field:

N/D

Well #:

#4

Water (bbl/day):

M/D

Temp.,C:

20

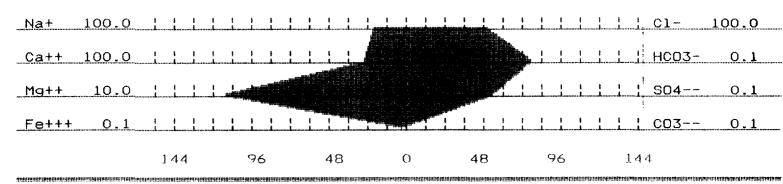
Date of Sampling: MARCH 20, 1987

Analysis By:

Bob Wallace

#### WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



#### DISSOLVED SOLIDS

#### DISSOLVED GASES

CATIONS	me/l	mg/l	Hydrogen sulfide: 50.00 mg/l
Total Hardness :	3500.00		Carbon dioxide : 237.60 mg/l
Calcium, (Ca++):	2400.00	48115.48	Oxygen : $0.20 \text{ mg/l}$
Magnesium, (Mg++):	1100.00	13366.54	
Iron, (Fe+++) :	0.05	1.00	PHYSICAL PROPERTIES
Barium, (Ba++) :	0.00	0.00	
Sodium, Na+(calc):	1809.33	41614.70	<b>pH</b> : 5.30
Manganese, (Mn++):	0.00	0.00	Spec Grav. : 1.190
			TDS (calc.) :291857.06
ANIONS			
Chloride, Cl- :	5295.77	187993.25	SCALE STABILITIES
Sulfate, SO4 :	5.62	270.00	Temp.,C CaCO3 CaSO4 BaSO4
Carbonate, CO3:	0.00	0.00	20.0 N/D N/D N/D
Bicarbonate, HCO3-:	8.00	488.10	20.0 N/D N/D N/D
Hydroxyl,OH- :	0.00	0.00	20.0 N/D N/D N/D
Sulfide, S :	0.00	0.00	Max entity, (calc.) 1910 0
TOTAL SOLIDS (quant	:. ):	466849.00	RESIDUAL HYDROCARBONS: N/D

N/D = not determined Remarks: At 20'C severe calcium carbonate scaling At 20'C Calcium sulfate scaling is unlikely Legal Notice to be published

Notice of application for injection permit

Sandstone Oil & Gas of 1330 E. 8th Street #304, Odessa, Texas 79761 has applied with the State of New Mexico Oil Conservation Division for a permit to inject fluid into a formation. Which is productive of oil or gas.

The applicant proposes to inject fluid into the Tom 36 State #2. The proposed injection well is located 18 miles SW of Elida, New Mexico in the Tomahawk field in Chaves County, New Mexico. Fluid will be injected into the subsurface interval from 4197' to 4217'.

Request for a public hearing from persons who can show they are adversely affected, or request for further information concerning any aspect of the application should be submitted in writing within fifteen days of this publication to New Mexico Oil Conservation Division, P.O. Box 1980, Hobbs, New Mexico 88210.

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

January 29, 1992

#### CERTIFIED RETURN RECEIPT

Strata Production Company 648 Petroleum Bldg. Roswell, New Mexico 88201

#### Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Sandstones' Tom "36" State #2 in Section 36 T7S-R31E of Chaves County, NM.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore

Engineer

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

January 29, 1992

#### CERTIFIED RETURN RECEIPT

Petroleum Development Corporation 9720-B Candalaria NE Albuquerque, NM 88172

#### Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Sandstones' Tom "36" State #2 in Section 36 T7S-R31E of Chaves County, NM.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

January 29, 1992

#### CERTIFIED RETURN RECEIPT

Murphy Operating Company P. O. Box 2648 Roswell, New Mexico 88201

#### Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Sandstones' Tom "36" State #2 in Section 36 T7S-R31E of Chaves County, NM.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

January 29, 1992

#### CERTIFIED RETURN RECEIPT

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

#### Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Sandstones' Tom "36" State #2 in Section 36 T7S-R31E of Chaves County, NM.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

#### AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico,
I, Jean M. Pettit
Bus. Manager,
Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period
of three times
weeks
beginning with the issue dated 27th
January , 19 92
and ending with the issue dated 29th
January , 19 92
Manager
Sworn and subscribed to before me
this29th day of
January 19 92  Marifly Notary Public
My commission expires 2 19 94 (Seal)

Rublish January 27 28 29 1992

NOTICE OF APPLICATION
FOR INJECTION PERMIT
Sendstone Oil & Gas of 1330 E
8th Street #304 Poless Towas
79761 has spoiled with the State
of New Mexico Dil Conservation
Division for a permit to inject fluid
into a formation Which Is produc
the of oil or gas

The spoilcant proposes to inject
thid into the floor 86 State \$2. The
proposed injection? well is located
18 miles SW.D Elide, New Mexico
in the Tomahawk field in Chaves
County, New Mexico Fluid will be
injected into the subsurface interyal from 197 by 4217/
Request for a public heading from
persons who can show they are
adversely affected 30 request for
further information concerning any
espect of the application should be
submitted: In writing within fifteen
days of this publication to New
Mexico Oil Conservation Division
P.O. Box 1980 Hobbs, New Mexico 88210.

## ILLEGIBLE



#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENTED

## OIL CONSERVATION DIVISION 192 FEB A 47 9 43

2-5-92

**BRUCE KING** GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed:
Gentlemen:
I have examined the application for the:
Sandstone Och 1 Bas Som 36 State # 2 14 36 1/31  Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:
$\mathcal{O}\mathcal{X}$
Youns very truly,
Jerry Sexton Supervisor, District 1

3 31

#### SANDSTONE OIL & GAS

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

February 21, 1992

#### CERTIFIED RETURN RECEIPT

New Mexico Energy & Minerals Dept. Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504

Attention: David Catanach

RE: Tom "36" State Well N. 2, Chaves County, NM.

Dear Mr. Catanach,

This letter is to notify you that we are amending our C-108 Application for Authority to Inject dated January 29, 1992 for the referenced well to change the injection interval. The new application will include the perforations from 4,125' to 4,160'. The original application intervals were from 4,197' to 4,217'. All of these perfs are in the same zone. We are also reducing our injection volumes from 150 BWPD with a maximum of 400 BWPD to 75 BWPD with a maximum of 150 BWPD.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

#### C-108

# APPLICATION FOR AUTHORIZATION TO INJECT SANDSTONE OIL & GAS TOM "36" STATE #2 CHAVES COUNTY, NEW MEXICO

- I. The purpose of converting this well is to make a disposal well for produced San Andres water into the San Andres formation.
- II. Operator: Sandstone Oil & Gas 1330 E. 8th St., Suite 304 Odessa, Texas 79761
- III. Well Data: See attached diagram.
- IV. This is not an expansion of an existing project.
- V. See attached map.
- VI. Wells within this area of review penetrate the proposed injection zone; well bore schematics are attached.
- VII. 1. Proposed daily injection volume approximately 75 BWPD. Maximum daily injection approximately 150 BWPD.
  - 2. This will be a closed system.
  - 3. Proposed average injection pressure: 0 300#. Proposed average maximum injection pressure: 800#.
  - 4. Sources of injected water would be produced water from the San Andres zone on same lease with no compatibility problems.
  - 5. Chemical analysis of produced water from existing wells is attached.
- VIII 1. The proposed injection interval is the portion of the San Andres formation consisting of dolomite from estimated depths of 3950' to 4300'.
  - 2. There are no fresh water wells within one mile.
  - IX. No initial stimulation is required, because the well will take fluid on vacuum.
    - X. Logs were filed with the State of New Mexico when the well was drilled in 1979.
  - XI. No windmills or fresh water wells exist within one mile of radius of the subject location.

XII. Sandstone Oil & Gas has examined geologic and engineering data and has found that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

#### XIII Proof of Notice

- A. Certified letters sent to the offset operators.
- B. Copy of legal advertisement. (Attached)

XIV Certification is signed.

Legal Notice to be published

Notice of application for injection permit

Sandstone Oil & Gas, 1330 E. 8th St., Suite 304, Odessa, Texas, 79761 has applied with the State of New Mexico Oil Conservation Division for a permit to inject fluid into a formation which is oil and gas producing.

The applicant proposes to inject fluid into the Tom 36 State #2. The proposed injection well is located 18 miles SW of Elida, NM in the Tomahawk field in Chaves County. Fluid will be injected into the subsurface interval from 4125' to 4160'.

Request for a public hearing from persons who can show they are adversely affected, or request for further information concerning any aspect of the application should be submitted in writing within fifteen days of this publication to the New Mexico Oil Conservation Division, P. O. Box 1980, Hobbs, NM 88210.

PLEASE PLACE THIS NOTICE IN YOUR PAPER MONDAY, FEBRUARY 24 AND TUESDAY, FEBRUARY 25, 1992.

SANDSTONE OIL &	GAS	TOM "36" STA	TE	
OPERATOR		LEASE		- <del></del>
2 WELL NO. FOO	1980' FNL & 660 FE	L 36	7-South	31-East RANGE
Unite Letter H	State Leas		TOWNSHIP	RANGE
70-71-1				
Schematic			Tabular Data	
	[ [8:	Surface Casing		
	12		" Cemented with	
			feet determined by	Signt
		Hole size	12 1/4"	
		Intermediate Casin	<u>19</u>	
		Size	" Cemented with	
		TOC	feet determined by	
		Hole size	· · · · · · · · · · · · · · · · · · ·	• •
	le -	Long string		
		Size5 1/2	" Cemented with	400
		TOC2500'	feet determined by	Calculation
		Hole size	7 7/8"	
	: :	Total depth	4305'	
		Injection interval	(Perforated)	
<b>131</b>			et to 4197 TO 4217	feet
		(perforated or ope	n-hole, indicate which)	
<del></del>		NEW MEXICO	TOM TOM FIELD	a und hill "
Well:	TINION OUT CO OF CAT	IEODNIA 2 Tom 12611	State Resulf: QIL DC	)
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Loc'n:	15 mi SE/Boaz, 1980' F	NL, 660' FEL Sec 36-7	5∙-31 E	
	15 mi SE/Boaz, 1980' F  Spud: 7-17-79; Comp; Casing: 8-5/8" 1654 / 7	NL, 660' FEL Sec 36-7: 8-5-79; <u>Eley:</u> 4438'Grd; 50 sx: 5-1/2" 4305'/40	531E <u>TD: 4</u> 305'San And; <u>}                                   </u>	
	15 mi SE/Boaz, 1980' F <u>Spud:</u> 7-17-79; <u>Comp;</u> <u>Casing:</u> 8-5/8" 1654 <sup>1</sup> /7 <u>Prod Zone:</u> (San And), T	NL, 660' FEL Sec 36-73 8-5-79; <u>Eley:</u> 4438'Grd; 50 sx; 5-1/2" 4305'/400 Gray 23 GOR 432	S-31E <u>TD: 4</u> 305'San And; <u>}                                   </u>	
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#### MURPHY OPERATING CORPORATION

UNITED BANK PLAZA, SUITE 300 400 NORTH PENNSYLVANIA AVENUE POST OFFICE BOX 2648 ROSWELL, NEW MEXICO 88202-2648

TELEPHONE 505 623-7210

February 24, 1992

#### VIA TELEFAX (505-827-5741)/HARD COPY BY U.S. MAIL

New Mexico Energy & Minerals Department Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87504

Attention: David Catanach

Re: Sandstone Oil & Gas ("Sandstone")

C-108 Application dated January 27, 1991

Dear David:

Pursuant to my telephone conversation with David Moore, Engineer for Sandstone Oil & Gas ("Sandstone"), I have been advised by Sandstone that they are revising certain aspects of the above-referenced C-108 application. These revisions are as follows:

Provision	Revision
VII.1.	The proposed daily injection volume shall be 75 BWPD. The maximum injection volume shall not exceed 150 BWPD.
VIII.1.	The proposed injection interval shall include the San Andres formation upper P-2 interval from 4125' - 4160'. This interval is in addition to the original proposed injection interval being the San Andres formation lower P-2 interval from 4197' - 4217'.

Murphy Operating Corporation ("Murphy") hereby withdraws its objection to said C-108 Application assuming Sandstone agrees to the following:

- 1. Sandstone agrees to notify Murphy if the actual injection rate exceeds 150 BWPD or if Sandstone reasonably believes that said injection rate will exceed 150 BWPD in the foreseeable future.
- 2. If Murphy reasonably believes that the injection, at any volume, is adversely affecting Murphy's producing wells then upon notification by Murphy, Sandstone agree's to a) either reduce injection to amount mutually agreed upon by Murphy and Sandstone, or b) failing such agreement to cease injection.

- 3. Sandstone agree's to notify Murphy if Sandstone plans to perforate any additional interval into which Sandstone plans to inject. Sandstone further agree's that if Murphy objects then Sandstone will not proceed with the proposed operation.
- If Sandstone accepts the terms and conditions herein, and executes and returns one copy of this Agreement, Murphy will withdraw its objection to the above-referenced C-108 Application as amended.

Sincerely,

MURPHY OPERATING CORPORATION

Mark B. Murphy President

MBM/ck

cc: Sandstone Oil & Gas

1330 East Eight Street, Suite 304

Odessa, Texas 79761

Attention: Mr. David Moore Via Telefax (915-333-3109)

Accepted and Agreed to this 35 days of Filming, 1992.	ıy
SANDSTONE OIL AND GAS	
By: Land More	
Name: David Moure	
Title: Paerner	

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

February 21, 1992

#### CERTIFIED RETURN RECEIPT

Murphy Operating Company P. O. Box 2648 Roswell, NM 88201

RE: Tom "36" State Well N. 2, Chaves County, NM.

#### Gentlemen:

This letter is to notify you that we are amending our C-108 Application for Authority to Inject dated January 29, 1992 for the referenced well to change the injection interval. The new application will include the perforations from 4,125' to 4,160'. The original application intervals were from 4,197' to 4,217'. All of these perfs are in the same zone. We are also reducing our injection volumes from 150 BWPD with a maximum of 400 BWPD to 75 BWPD with a maximum of 150 BWPD.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

February 21, 1992

#### CERTIFIED RETURN RECEIPT

Strata Production Company 648 Petroleum Bldg. Roswell, NM 88201

RE: Tom "36" State Well N. 2, Chaves County, NM.

#### Gentlemen:

This letter is to notify you that we are amending our C-108 Application for Authority to Inject dated January 29, 1992 for the referenced well to change the injection interval. The new application will include the perforations from 4,125' to 4,160'. The original application intervals were from 4,197' to 4,217'. All of these perfs are in the same zone. We are also reducing our injection volumes from 150 BWPD with a maximum of 400 BWPD to 75 BWPD with a maximum of 150 BWPD.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

1330 E. 8th St., Suite 304 Odessa, Texas 79761 915 334 8531

February 21, 1992

#### CERTIFIED RETURN RECEIPT

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: Tom "36" State Well N. 2, Chaves County, NM.

#### Gentlemen:

This letter is to notify you that we are amending our C-108 Application for Authority to Inject dated January 29, 1992 for the referenced well to change the injection interval. The new application will include the perforations from 4,125' to 4,160'. The original application intervals were from 4,197' to 4,217'. All of these perfs are in the same zone. We are also reducing our injection volumes from 150 BWPD with a maximum of 400 BWPD to 75 BWPD with a maximum of 150 BWPD.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

1330 E. 8th St., Suite 304 Odemsa, Texas 79761 915 334 8531

February 21, 1992

#### CERTIFIED RETURN RECEIPT

Production Development Corporation 9720-B Candalaria NE Albuquerque, NM 88172

RE: Tom "36" State Well N. 2, Chaves County, NM.

#### Gentlemen:

This letter is to notify you that we are amending our C-108 Application for Authority to Inject dated January 29, 1992 for the referenced well to change the injection interval. The new application will include the perforations from 4,125' to 4,160'. The original application intervals were from 4,197' to 4,217'. All of these perfs are in the same zone. We are also reducing our injection volumes from 150 BWPD with a maximum of 400 BWPD to 75 BWPD with a maximum of 150 BWPD.

You may contact me at 915 334 8531 for any discussion regarding this project.

Sincerely,

David Moore Engineer

#### 192 ME / / HM 9 02

#### AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico,
I, Jean II. Pettit
Bus. Manager,
Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period
of two times
weeks
beginning with the issue dated24th
February , 19 92
and ending with the issue dated 25th
February , 19 92
Manager
Sworn and subscribed to before me
this 25th day of
February 19.92  My Commission expires
(Seal) 19.24

Publish February, 24, 25, 1992

Publish February, 24, 25, 1992

NOTICE OF APPLICATION
FOR INJECTION PERMIT
Sendatone Of a Gast of 1330 E.
8th Street #304 Odessa. Texas
79761 has applied with the State
of New Mexico Oil Conservation
Division for a permit to inject fluid
into a formation. Which is productive of oil or gas.

The applicant proposes to inject fluid
into the Torn 36 State \$2. The
proposed injection well is located
18 miles SW of Elida, New Mexico
in the Tornshawk: field in Chaves
County, New Mexico SFuid will be
injected into the subsurface interval, from 4125 to 4180 and 4197
to 4217
Request for a public hearing from
persons who can show they are
adversely affected, or request for
further information concerning any
suspect of the application should be
submitted in writing within lifteen
days of this publication to New
Mexico Cili Conservation Division,
P.O. Box: 1980, Hobbs, New Mexico
88210.