Release Date.

PADILLA & SNYDER

ATTORNEYS AT LAW

200 W. MARCY, SUITE 212

P.O. BOX 2523

SANTA FE, NEW MEXICO 87504-2523

(505) 988-7577

May 6, 1988

HAND-DELIVERED

Mr. William LeMay Director Oil Conservation Division Land Office Building Santa Fe, New Mexico 87501

Re: <u>Application of Corinne B. Grace for Salt Water Disposal</u>

Dear Mr. LeMay:

Enclosed please find the Application for Salt Water Disposal of Corinne B. Grace, Eddy County, New Mexico. We request that the application be approved administratively. Should you require anything further after your staff's review of the application, please do not hesitate to call upon us to supply that information to you.

ANTERAND

Very truly yours,

Ernest L. Padilla

ELP:crk

Enclosure as stated

cc: Corinne B. Grace

APPLICATION FOR AUTHORIZATION TO INJECT

Jess SWD #1

73'FEL & 2326' FNL

Sec. 24, T.26S., R.30E. NMPM

Eddy County, New Mexico

of the earlier submittal.

OIL CONSERVATION DIVISION

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 FORM C-108 Revised 7-1-81

•	
I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no
.11	Operator: Corinne B. Grace
	Address: P. O. Box 1418, Carlsbad, NM 88220
	Contact party: Mike Butts Phone: 887-5581
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.
17.	Is this an expansion of an existing project? yes no If yes, give the Division order number authorizing the project
٧.	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.
٧1.	Attach a tabulation of data on all wells of public record within the area of review whice 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
III.	Attach appropriate geological data on the injection zone including appropriate lithologi 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 frosh 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.
III.	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: _Mike Butts
	Signature: Mike Butts Date: 4/15/88

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

TABLE OF CONTENTS

- I. Purpose
- II. Operator
- III. Well Data
- IV. Expansion of Existing Project?
 - V. Area Maps
- VI. Tabulation of Well Data
- VII. Proposed Operation Data
- VIII. Geological Data
 - IX. Proposed Stimulation Program
 - X. Logging and Test Data
 - XI. Fresh Water Analysis
 - XII. Affirmative Statement
- XIII. Proof of Notice
 - XIV. Certification

Section I

Purpose

I. Purpose

- A. To inject disposal water from area wells into non-productive Bell Canyon Formation. Operator may accept disposal water from other operators.
- B. This application qualifies for administrative approval.

Section II

Operator

II. Operator

Corinne B. Grace P. O. Box 1418 Carlsbad, New Mexico 88220

Contact Party: Mike Butts Phone: (505) 887-5581

Section III

Well Data

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. ..

III. Well Data (Injection Well Data Sheet) Α.

- Corinne B. Grace Operator Jess SWD #1 73' FEL & 2326' FNL Sec. 24, T.26S., R.30E., NMPM Eddy County, New Mexico
- 2. Casing Strings
 - Surface a.
 - Hole Size: 12¼" (1)
 - (2) Casing Size: 8 5/8"
 - (3) Casing Weight: 24#
 - (4)Setting Depth: 900'
 - (5) Cement Data: Halliburton Proposal Hole Volume = 372 cu. ft. figured 200% excess 1158 cu. ft. of slurry lead w/450 sx Hal-Lite + 1/4 flocele/sx Yield = 1.84 cu. ft./sx Weight = 12.4 #/gal. Water = 9.9 gal/sxTail w/250 sx Class "C" + 2% CaCl Yield = 1.32 cu. ft./sx Weight = 14.8 #/gal. Water = 6.3 gal/sxCirculate Cement to Surface
 - Production
 - Hole Size: 7 7/8" (1)
 - Casing Size: 53" (2)
 - (3) Casing Weight: 17#
 - Setting Depth: 4600' (4)

 - (5) DV Tool Depth: 3300' (6) Cement Data: Halliburton Proposal 1st Stage: Hole Volume: 225 cu. ft. figured 50% excess 337 cu. ft. of slurry Pump 240 sx 65/35 Class C/PozA mix +2% qel + .4% CFR-3 + .4% Halad 4 + 5# Salt/sx Yield = 1.39 cu. ft./sx Weight = 14.26 #/galWater = 6.5 gal./sx2nd Stage: Hole Volume: 589 cu. ft. figured 100% excess 1006 cu. ft. of slurry Lead 475 sx Hal-Lite + 1/4 Flocele/sx Yield: 1.84 cu. ft./sx

Weight: 12.4#/gal Water: 9.9 gal/sx. Tail 100 sx Class "C"

Yield: 1.32 cu. ft./sx
Weight: 14.8#/gal.
Water: 6.3 gal/sx
Circulate Cement to Surface

3. Tubing: $2 \frac{7}{8}$ " plastic lined to be set at

3650'+

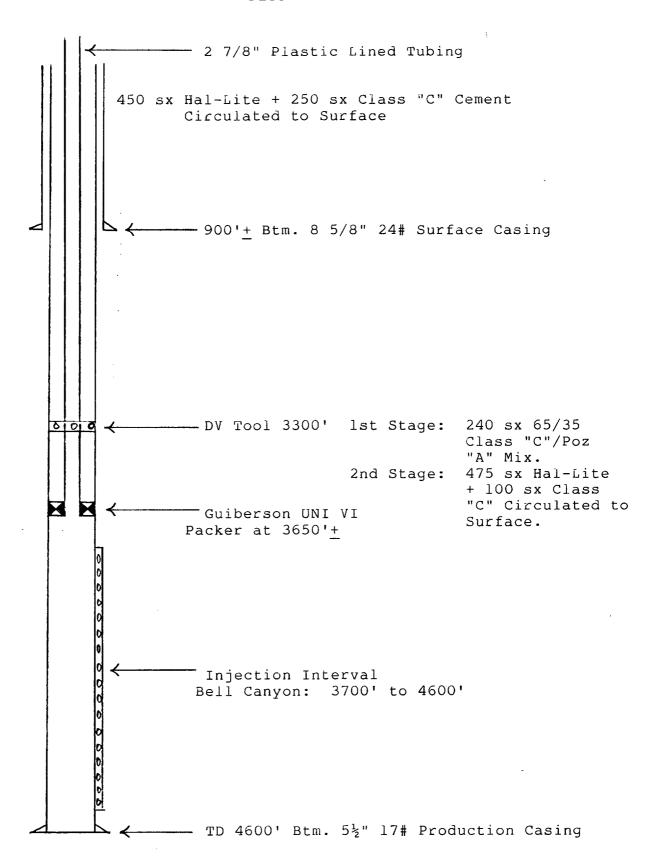
4. Packer: Guiberson UNI VI Retrievable to

be set at 3650'+

В.

l. Formation: Bell Canyon
Pool: East Ross Draw Delaware

- 2. Interval: 3700'+ to 4600'+
 Individual zones within interval to be perforated will be picked from open hole logs to be run consisting of CNL, LDT, DLL, MSFL.
- 3. Well drilled for injection.
- 4. No other perforated intervals.
- 5. Next producing zone in area: Williamson Sand, top at 5700'.



Form 3160-3 (November 1983) (formerly 9-331C)

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. __

APPROVED BY _

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

, ,	DEPARTMEN'	T OF THE I	NTE	RIOR			5. LEASE DESIGNATION	AND SERIAL NO
	BUREAU OF	LAND MANA	GEME	NT			NM-18626	
APPLICATIO	N FOR PERMIT	TO DRILL.	DEEP	EN OR PI	UG RA	CK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK					.00 5.		N/A	
		DEEPEN		PLU	G BACK		7. UNIT AGREEMENT NA	MB
b. TYPE OF WELL	AS [8	SINGLE [MULTIPLE		N/A	
	VELL OTHER	Disposal	z	CONE	ZONE	Ц_	S. FARM OR LEASE NAM	
Corinne B.	Grace						Jess SWD	
3. ADDRESS OF OPERATOR	Grace		···				1	
P. O. Box	1418, Carlsb	ad, New M	exic	o 88220	1		10. FIELD AND POOL, OF	E WILDCAT
4. LOCATION OF WELL (E	deport location clearly and	•					East Ross Dr	
73° FEL 8	2326' FNL						11. SEC., T., R., M., OR B AND SURVEY OR AR	
At proposed prod. son Same	ne		•				Sec. 24, T26	
14. DISTANCE IN MILES	AND DIBECTION FROM NEA	REST TOWN OR POS	T OFFI				12. COUNTY OR PARISH	
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15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE ! (Also to nearest dr)	T Line, Ft.	140	16. N	o. of acres in L	LEASE		OF ACRES ASSIGNED HIS WELL	
18. DISTANCE FROM PROI	POSED LOCATION®		19. P.	ROPOSED DEPTH		20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	DRILLING, COMPLETED, US LEASE, FT.	2113.5		4600' <u>+</u>		Ro	tary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE WOR	K WILL START
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23.		PROPOSED CASI	ING AN	D CEMENTING P	ROGRAM			
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER F	00T	SETTING DEI	РТН		QUANTITY OF CEMENT	r
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7 7/8	5½	17#		4600			715sx	
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f. Acreage Dedication Plat								<u> </u>
G. Location Plat H. Topographical Map								CEIVED
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4.	2001							
BIGNED	The Bu	the TITE	LE	Agent			DATE 4/1	5/88

APPROVAL DATE.

DATE .

TITLE .

Section IV

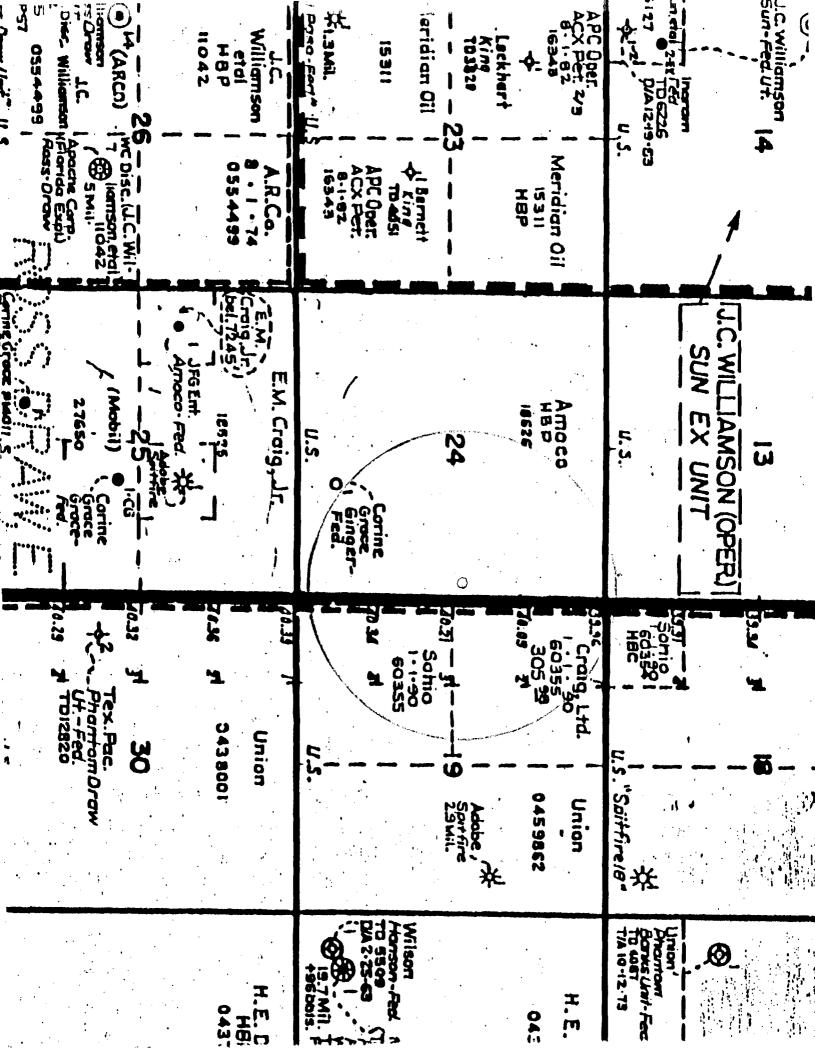
Expansion of Existing Project (Not-Applicable)

Section V

Area Maps

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LOVING County



Section VI

Tabulation of Well Data

Ginger Federal #1 1880' FEL & 460' FSL Sec. 24, T.26S., R.30E. NMPM Eddy County, New Mexico

Operator: Corinne B. Grace Address: P. O. Box 1418 Carlsbad, NM 88220 600 sx "LW" & 250 sx Class "C" Cmt. Circuated to Surf. Spud: 7/28/87. TD: 70601 Surface Comp. Interval: 5809'-5817' 906' - 13 3/8" 54.50-68# Csg. Formation: Delaware Type: Oil 1550 sx "LW" Cmt. Circulated to Surf. Intermediate 3545'-8 5/8" 24-32# Csg. D.V. Tool 5270' 1st Stage: 470 sx 50/50 POZ "H". 2nd Stage: 330 sx Hal/Lite + 200 sx Class "C" Top of Cement above 3500' by Bond Log. Williamson Sand Perfs: 5809'-5817' Production 7060'-5½" 17# Csg.

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2160 4				S.			¥		•	_		
Form 3160-4 (November 1983)		1.181	urrn	CT 1 T	·	RE	GE	KERAT	.	Form app		d. v No. 1004–0137
(formerly 9-330)	DED 4 D		ITED					(See oth		Expires	Augu	st 31, 1985
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BUREAU OF LAND MANAGEMENT NOV 20 1 23 PN '87 NM-18626 WELL COMPLETION OR RECOMPLETION REPORTS AND LOGUE												
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2. NAME OF OFFRATO	ik ——————				···	·				Ginge	r F	ederal
Corinne B. Grace Ginger Federal WELL NO.												
3. ANDREAS OF UPERATOR												
P. O. Box 1418, Carlsbad, NM 88220 10. FIELD AND FOOL, OR WILDCAR 1. LOCATION OF WELL (Report location clearly and in accordance with any State requirements).									OR WILDCAY			
	880' FEI				wiin any	State require	rmenti	•)•,		l. BEC., T., R.		N BLOCK AND BURYET
At top prod. Inte	rval reported b	elow	Same					•		OR AREA		
At total depth	Same								اء	ec 24	ηr	265, R-30E
1				14. PE	MIT NO.		DATE	ISSUED		2. COUNTY OF		13. STATE
				<u> </u>			4-	-14-87		Eddy		NM
5. DATE SPUDDED						prod.) 18.		ATIONS (DF.		PR, ETC.)*		LEV. CABINGHEAD
7-28-87			1.D., ND 4	$\frac{1-15-1}{100}$		IPIA COMPL.		L 1 3 . 4		JOOT TRATOL		CABLE TOOLS
7060 MD		5980	-		HOW MA	Kt.		bRIGL		X	- I	1
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											·	SURVET MADE
5809-5817' Williamson Sand No												
8. TIPB BLECTRIC A		RUM							***************************************		27. W	AT WELL CORRD
	L-MSFL											Yes
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			. -	. .				_ \				
5809-5817' 9 holes50 dia. No treatment												
		• .	÷									
73.* PRODUCTION PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Wall, STATUS (Freducing or the pump)												
	ton i >=4		•	• • •					~ 7	ahu	(-in)	
ATE FIRST PRODUCT	ION PRO	D11	1 01	- Y I X			L P	UMP BAB—NO	7.	WATER-BEI		Producing
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11-15-87	:				'N. FOR PERIOD	1	FCC	La		0		694
11-15-87 11-18-87 11-18-87	HOURS TESTE	D C		PROD	PERIOD	147		La		0	OIL (_
11-15-87 11-18-87 11-18-87 FLOW, TUBING PRISS. 50	24 74 745190 FRES	SURE (ALCULATED	PROD TEST	PERIOD	147		La	2 WATER-R	0		694
11-15-87 DATE OF THEE (11-18-87 FLOW: TUBING PRESS. 50 34. DISPOSITION OF	HOURS TESTE 24 CASINO PRES 50 AB (Bold, week	SURE (ALCULATED	PROD TEST	PERIOD	147		La	2 WATER-R	O DL.		694 BRAVITT-API (CORS.)
11-15-87 11-18-87 11-18-87 11-18-87 10-18-87 10-18-87	HOURS TRATE 24 CASINO PARS 50 DAS (Sold, weed)	SURE	ALCULATED 24-HOUR RA	TR AC	NO STAGES	147 <u>c</u> 1 0V 2 7 15	387 35	kD 10:	2 WATER	0 TEST WITHS Dou	g C	694 MANUTARI (COMM.) handler
11-15-87 11-18-87 11-18-87 11-18-87 10-18-87 10-18-87	HOURS TRATE 24 CASINO PARS 50 DAS (Sold, weed)	SURE	ALCULATED 24-HOUR RA	TR AC	NO STAGES	147 <u>c</u> 1 0V 2 7 15	387 35	kD 10:	2 WATER	0 TEST WITHS Dou	g C	694 MANUTARI (COMM.) handler
11-15-87 DATE OF THET 11-18-87 FLOW. TUBING PRESS. 50 84. DIRFORITION OF C	HOURS TRATE 24 CASINO PARS 50 DAS (Sold, weed)	SURE	ALCULATED 24-HOUR RA	TR AC	NO STAGES	147 <u>c</u> 1 0V 2 7 15	387 35	kD 10:	2 WATER	0 TEST WITHS Dou	g C	694 MANUTARI (COMM.) handler

*(See Instructions and Speake to Addition Office on Danier

Form 3160-3 (November 1983) (Iomeria 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

Sept.	DEPARTMENT					5. LEASE DESIGNATIO	N AND BERIAL NO.		
BUREAU OF LAND MANAGEMENT NM-18626									
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. IF INDIAN, ALLOTTER OR TRIDE NAME									
1a. TYPE OF WORK DRILL X DEEPEN PLUG BACK 7. UNIT AGREEMENT NAME									
DRI b. Tips of wall	LL IXI	DEEPEN (J	PLUG BA	CK 📙		NAME		
OIL [V] OAS [] SINGLE [] MULTIPLE [] 6									
WELL CONSTRUCTION OTHER ZONE CONSTRUCTION OF PART OF LARGE NAME OF CONSTRUCTION OF CONSTRUCTIO									
Corinne B. Grace Yvonne Fed. 9. Wall No.									
8. ADDRESS OF OPERATOR 1									
P. O. Box 1418, Carlsbad, NM 88220									
At surface At surface At surface Last Ross Draw Dela.									
At surface 1980' FSL & 1980' FEL 11. SEC, T., B., M., OR BLE, AMD SURVEY OR AREA									
Lybu rob At proposed prod. son						AND BURYET OR	AREA .		
and proposed pooms and		•				S24, T-269	S, R-30E.		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAD	REST TOWN OR POS	T OFFIC	,		12. COUNTY OR PARIS			
21 Miles So	outheast of M	alaga, NM	1			Eddy	" NM		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*			OF ACRES IN LEASE		OF ACRES ASSIGNED	•		
PROPERTY OR LEASE (Also to nearest drip	INB, FT.	1980'		1000	TOT	HIS WELL			
18. DISTANCE FROM PROP	OBED LOCATION		19. ri	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	·		
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED, 18 LEASE, FT.	1523'	\ ·	7025	Ro	tary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		<u> </u>				VORE WILL START		
3145.4' GR	•					May 1,	1988		
23.		PROPOSED CAS	ING AN	D CEMENTING PROGRA	м	· · · · · · · · · · · · · · · · · · ·			
SIZE OF ROLE	BIZE OF CABING	WEIGHT PER P							
175	13 3/8	54.50	00T	900	900	QUANTITI OF CEM			
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7 7/8	5½	17		7060	850	SV.	<u> </u>		
, ,, ,	32	1 *'	•	1 7000	1030	Standalise This	pe de		
Exhibits A	ttached:	•				O SA STORY			
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	g Fluid Progra	m				She Chan			
B. BOP Prod	•					(M			
	g Equipment I		`	stismal Dlaw					
	oint Surface nt Compliance		per	ational Plan					
	Dedication P								
G. Location		iat							
H. Topogra									
	ogical Survey	Report							
i. Medicor	ogroup buryol	nopor c					* 1 -		
	•								
IN ABOVE SPACE DESCRIBE	e proposed program: If drill or deepen directions	proposal is to dee	pen or i	plug back, give data on j	present proc	ductive some and propo	sed new productive		
zone. It proposal is to preventer program, if an		rest, Brac herciuso	. uutu	on annountace inchristing t	mcmoult				
24.	2-14 11	11	-			-	1 -1		
- AND NEW /	Muke 131	its	TLE	Agent		HATE 5/	28/88		
BIONED		TI							
(This space for Fede	eral or State office use)								
PERMIT KO	·		·····	APPROVAL DATE					
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APPROVED BY		TI	TLB			DATE			
CONDITIONS OF APPRO									

Section VII

Proposed Operation Data

VII. Proposed Operation Data

- 1. Injection Rate
 - a. Average Daily: 1500 Bbls. per day.
 - B. Maximum Daily: 7500 Bbls. per day.
- 2. System will be closed.
- 3. Injection Pressure
 - a. Average: Unknown
 - b. Maximum: 830#
- 4. Injection fluids will be disposal water from area wells.
- 5. Disposal zone formation water is very similar to all produced Delaware waters. (See Attached water analyses.)

HALLIBURTON DIVISION LABORATORY

HALLIBURION SERVICES

AMTESIA, NEW NEXTCO 88210

LABORATORY WATER ANALYSIS

No. W200, W201, & W202-87

o . Corinne Grace		Dale_	October 19, 1987			
P. O. Box 1418		This report is the property of Halliburton Company and naither it nor any part thereof not a copy thereof is to be published or disclosed without first securing the express written approval				
Carlsbad, NM	88220	ol laboratory managen course ol regular busine	tents it may however, be used in the standard or concern receiving such report from Halliburton.			
Submitted by Danny Ha	rvey		October 19, 1987			
Well No.	Depth5700 '	Formatio	• •			
	Field Sec. 25, 2	•	•			
	C. G. Fed. 11	Zac Fed. #1				
Resistivity	0.048 @ 72°	0.048 @ 72°				
Specific Gravity	1,21	1.21				
	6.3	6.1	· ·			
Colcium (Co;	38,212	37,720	*MPL			
Magnesium (Mg)		5,970				
Chlorides (CI)	191,000	192,000				
Sullates (SO ₄)	Nil	N11				
Bicarbonates (HCO ₃)	32	68				
Soluble Iron (Fe)		Moderate	_			
11		•				

***************************************		•				
Remarks:			. *Milligrams per liter			
NEGETVEN OCT 2 3 1981	Hochy	Chamber submitted,				
	J		•			

Analysi: Rocky Chambers - Special Operator cc:

HALLIBURTON COMPANY

HALLIBURTON DIVISION LABORATC

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. WB3-929

R not any part thereof nor a copy thereof is to be of disclosed within state such the supress with of laboratory management. R may however, be used to laboratory management. R may how the supress with of laboratory management. R may have the supress with of laboratory management. R may how the substance of laboratory management and employees thereof receiving such report town company. Date Rec. 8-4-83	BBC, Inc.		Date	8-4-83	
County			nt nor any part thereor nor a copy thereor is to be published or disclosed without first securing the express written approval of leboratory management; It may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburtons.		
County	nitted by		Date Rec	8-4-83	
Cherry Canyon Bell Canyon	I No. Not Designated	Depth	Formation	As Marked	
Resistivity 0.049	nty	Field	Source		
Specific Gravity 1.181 1.086 pH 5.4 6.9 Calcium (Ca) 23,700 8,000 Magnesium (Mg) 6,240 1,500 Chlorides (Cl) 169,000 76,000 Sullates (SO ₄) 310 1,640 Bicarbonotes (HCO ₃) 75 145 Soluble Iron (Fe) 5 Nil Sodium, Na (Calc.) 70,766 38,122 Total Dissolved 270,096 125,407 Remarks: *Milligroms 1	<u> </u>	herry Canyon	Bell Canyon		
pH 5,4 6,9 Calcium (Ca) 23,700 8,000 Magnesium (Mg) 6,240 1,500 Chlorides (Cl) 169,000 76,000 Sullates (SO ₄) 310 1,640 Bicarbonotes (HCO ₃) 75 145 Soluble Iron (Fe) 5 Ni1 Sodium, Na (Calc.) 70,766 38,122 Total Dissolved Solids (Calc.) 270,096 125,407 Remarks: *Milligroms 1	stivity	.049 @ 74°F.	0.070 @ 74°F.		
Calcium (Ca) 23,700 8,000 Magnesium (Mg) 6,240 1,500 Chlorides (Cl) 169,000 76,000 Sullates (SO ₄) 310 1,640 Bicarbonotes (HCO ₃) 75 145 Soluble Iron (Fe) 5 Nil Sadium, Na (Calc.) 70,766 38,122 Total Dissolved Solids (Calc.) 270,096 125,407 Remarks: *Milligroms 1	cific Gravity	.181	1.086		
Magnesium (Mg) 6,240 1,500 Chlorides (Ci) 169,000 76,000 Sullates (SO ₄) 310 1,640 Bicarbonotes (HCO ₃) 75 145 Soluble Iron (Fe) 5 Nil Sodium, Na (Calc.) 70,766 38,122 Total Dissolved 270,096 125,407 Remarks: *Milligroms 1		i . 4	6.9		
Chlorides (Cl) 169,000 76,000 Sulfates (SO ₄) 310 1,640 Bicarbonates (HCO ₃) 75 145 Soluble fron (Fe) 5 Nil Sadium, Na (Calc.) 70,766 38,122 Total Dissalved 270,096 125,407 Remarks: *Milligroms 1	clum (Ca)	.700	8,000	*MPL	
Sulfates (SO ₄) 310 1,640 Bicarbonates (HCO ₅) 75 145 Soluble fron (Fe) 5 Ni1 Sodium, Na (Calc.) 70,766 38,122 Total Dissolved Solids (Calc.) 270,096 125,407 Remarks: *Milligroms 1	gnesium (Mg)	5,240	1,500		
Bicarbonates (HCO ₃) 75 145 Soluble Iron (Fe) 5 Nil Sodium, Na (Calc.) 70,766 38,122 Total Dissolved Solids (Calc.) 270,096 125,407 Remarks: *Milligroms 1	orides (Cl)	69,000	76,000		
Soluble Iron (Fe)	ates (SO ₄)	310	1,640		
Sodium, Na (Calc.) 70,766 38,122 Total Dissolved 270,096 125,407 Remarks: *Milligroms parts	arbonotes (HCO ₃)	75	145		
Total Dissolved ————————————————————————————————————	uble fron (Fe)	5	Nil		
Sólíds (calc.) 270,096 125,407 Remarks: *Milligroms 1	dium, Na (Calc.)	70,766	38,122		
Remarks: *Milligroms ;	Solids (Calc.)	270,096	125,407		
Respectfully submitted				*Milligrams per liter	
ARMUNIA MIDINI MALI		Paracette	ally submitted		
Analyst: Brewer HALLIBURTON COMPANY	alus Brewer	·	•	ON COMPANY	
cc: By W. Z. Blewer	JIY31: ALCOCO				

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

YALLIBURTON DIVISION LABORATO

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

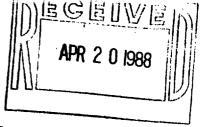
No. W83-928

BBC, Inc.		Date	3-4-83				
103 5. Marland		It nor any part thereof nor	This report is the property of Halliburton Company and neither It nor any part thereof nor a copy thereof is to be published				
Hobbs, New Mexic	90	of laboratory management; course of regular business of	lt may however, be used in the operations by any person or concern elving such report from Halliburton				
ubmitted by		Date Rec	8-4-83				
Vell No. Not Design	atedDepth	Formation	As Marked				
County	Field	Source					
	Brushy Canyon	Wolfcamp					
esistivity	0.048 @ 74°F.	0.089 @ 74°F.					
pecific Gravity	1.209	1.057					
Н	5.3	c 0	···				
Calcium (Ca)	32,200	1,800	*MPL				
Magnesium (Mg)	5,760	840					
hlorides (CI)	197,000	48,000					
ulfates (SO ₄)	160	185					
Bicarbonates (HCO ₃)	95	230					
oluble Iron (Fe)		5					
odium, Na (Calc.)		27,657					
otal Dissolved Solids (Calc.)	315,282	78,717					
emarks:			*Milligrams per liter				
	Respe	ctfully submitted,	·				
malyst: Brewer		HALLIBURTON	I COMPANY				
C:		. /// 2	Brandal				
		By CHEN	MIST				

Section VIII

Geological Data

HARRY L. GUNN Consulting Geologist



TELEPHONE 505/748-9012

813 S. FOURTH ARTESIA, N.M. 88210

GRACE OIL COMPANY CARLSBAD, NEW MEXICO

TO WHOM IT MAY CONCERN

FORM C-108 Oil Conservation Division, Energy and Minerals Department, State of New Mexico

VIII. A new well planned for water disposal purposes, the Grace oil. Co., Jess, SWD #1, 73' FEL, 2326' FNL, Section 24, T-26-S,R-30-E, Eddy County, New Mexico, will be drilled to a depth of 4600'. Casing to be set is planned for 85/8" to 900 feet and 5½" to 4600 feet. Perforations will be in the Bell Canyon Sand of the Delaware Mountain Group from 3700' to 4600'. These bell Canyon sands are composed of very fine to fine grained quartz sands. examination from the Grace Oil Co. No. 1 Ginger Federal, at 4078 to 4,108', confirmed the grain size and revealed the presence of a few thin shale laminations. highly porous sands, 19% to 25%. have very little carbonate cementing material with slight varying amounts of clay and feldspar content. The sands with the higher porosity are usually more permeable. This sand interval should be suited for disposal water. There is no known oil or gas production nearby from this interval.

The overall thickness of this sand is around 920 feet, beginning at 3,670 feet, down to the top of the Cherry Canyon Formation at 4,570 feet. This sand lies below 2,000' of anhydrite and salt of the Castile Formation.

XII.. There are no open faults in evidence throughout the Delaware Sands in this area. nor are there any possible geologic connections to any source of drinking water.

There is no palatable water below the injection interval, all these waters will be either salty or brackish sulfur water.

Sincerely

Harr

Section IX

Proposed Stimulation Program

- IX. Proposed Stimulation Program

 - Acidize sands with 10,000 gallons 15% acid. Fracture treat sands with 200,000 gallons gelled produced water and 240,000 pounds 12/20 sand.

Section \mathbf{X}

Logging Data

- X. Logging Data: To be run before casing.1. CNL-Density(Porosity)2. Dual Lateralog/Micro SFL (Resistivity)

(Electric logs to be submitted to OCD and BLM on completion of logging)

Section XI

Fresh Water

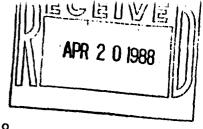
XI. Fresh Water: There is one (1) fresh water well within one (1) mile of proposed injection well. It was drilled 5/2/88. Total depth is 440'. It is located approximately, 1750

It is located approximately, 1750' FEL & 380' FSL, Section 24, T26S, R30E, Eddy County, New Mexico.

Section XII

Affirmative Statement

HARRY L. GUNN Consulting Geologist



TELEPHONE 505/748-9012

813 S. FOURTH ARTESIA, N.M. 88210

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Sincerely,

Uarre 6

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Section XIII

proof of Notice

XIII. Proof of Notice

- A. Certified Mail
 - 1. Surface Owner
 - a. Bureau of Land Management P. O. Box 1778 Carlsbad, New Mexico 88220
 - 2. Operators within ½ mile of proposed injection well.
 - a. Amoco Production Company Houston Region 501 Westlake Park Blvd. P. O. Box 3092 Houston, Texas 77253
 - b. Craig, LTD.
 c/o Earle M. Craig, Jr. Corporation
 P. O. Box 1351
 Midland, Texas 79702-1351
 - c. Sun Exploration and Production Co. Box 1861 Midland, Texas 79702-1861
 - d. Sohio Petroleum Co. 5420 LBJ Freeway Suite 1000 Dallas, Texas 75240

B. Legal Notice

- 1. Date of Publication: 5/4/88
- 2. Name and Address of Publication:

Artesia Daily Press 503 West Main Street Artesia, New Mexico 88210

April 21, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Bureau of Land Management P. O. Box 1778 Carlsbad, New Mexico 88220

Re: Jess SWD No. 1 Well

Section 24, T26S, R30E, N.M.P.M.,

Eddy County, New Mexico

Dear Sir:

Enclosed, please find a copy of our Application of Corinne Grace for a Salt Water Disposal Well, Eddy County, New Mexico, together with a copy of the Form C-108.

Should you have any questions concerning the Application you may contact the undersigned at this office.

The intended purpose of the injection well, located 73 feet from the east line and 2326 feet from the north line of Section 24, Township 26 South, Range 30 East, N.M.P.M., is for the disposal of disposal water in the Bell Canyon formation, with a planned injection interval of 3700 feet to 4600 feet. The expected maximum injection rate is 7500 barrels per day, with the maximum injection pressure to be 830 PSIG.

Surface owners or offset operators must file any objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days from the date hereof.

Very truly yours,

Mike Butts Agent

597 859 P-484

RECEIFT FOR CERTIFIED MAIL
NO INSURMISE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

-506	Bureau of Land Mana	agement
. 153	Speed and PBox 1778	
U.S.G.P.O. 153-506	P.O. State and ZIP Code Carlsbad, NM 88220)
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S Form 3800, June 1985	Postmark of Cate COST	V

April 21, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Amoco Production Company Houston Region 501 Westlake Park Blvd. P. O. Box 3092 Houston, Texas 77253

Re: Jess SWD No. 1 Well

Section 24, T26S, R30E, N.M.P.M.,

Eddy County, New Mexico

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Very truly yours,

Mike Butts Agent

Enclosures MB/lm

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"" (See Soverse)

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for the many control and	1000
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April 21, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Craig, LTD. c/o Earle M. Craig, Jr. Corporation P. O. Box 1351 Midland, Texas 79702-1351

Re: Jess SWD No. 1 Well

Section 24, T26S, R30E, N.M.P.M.,

Eddy County, New Mexico

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Very truly yours,

Mike Butts Agent

THE CERTIFIED MAIL PROPERTY OF THE PROPERTY OF

J.S.G.2.0, 153-508	Craig, LTD. c/o Earle M. Craig, P. o. Box 1351	
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	Batum Rick at I having to whom and Date Delivered	90
June 1985	Return Receipt showing to whom, Pate, and Ad kess of Delivery (
rorm 3800, June	Fortmask or Value	260
PS Forn	ST S	´

April 21, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Sun Exploration and Production Co. Box 1861 Midland, Texas 79702-1861

Re: Jess SWD No. 1 Well

Section 24, T26S, R30E, N.M.P.M.,

Eddy County, New Mexico

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Very truly yours,

Mike Butts Agent

OF CURT UNI CERTIFIED MAIL OUR STORT COLUMN THEORY OF CHARACTERS AND OSCIOLOGICAL COLUMN THE COLUMN

U.S.G.P.O. 153-505	Sun Exploration & Box 1861	Production	n
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Jun	IOTAL Postage WITTES	0 %	
PS Form 3300. June 1985	Portra de el 1949		

April 21, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Sohio Petroleum Company 5420 LBJ Freeway Suite 1000 Dallas, Texas 75240

Re: Jess SWD No. 1 Well

Section 24, T26S, R30E, N.M.P.M.,

Eddy County, New Mexico

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Very truly yours,

Mike Butts Agent

TOTAL CENTIFIED MAIL

TO THE COLOR BASE PROVIDED

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THE RESERVED.

5420 LBJ Freeway,	ourte.
Dallas, TX 75240	5/8-
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Return 12 is at 25 same to whom Date and 34 miles at 1 days y 5	
FOTAL For Sugar and February	360
Pedrad Pate 1	1260

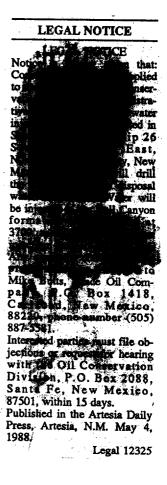
Affidavit of Publication

No.	12325	

STATE OF NEW MEXICO, County of Eddy:

Gary D. Scott being duly
sworn, says: That he is thePublisherof The
Artesia Daily Press, a daily newspaper of general circulation,
published in English at Artesia, said county and state, and that
the hereto attached Legal Notice
was published in a regular and entire issue of the said Artesia
Daily Press, a daily newspaper duly qualified for that purpose
within the meaning of Chapter 167 of the 1937 Session Laws of
the State of New Mexico for consecutive weeks on
the same day as follows:
First Publication May 4, 1988
Second Publication
Third Publication
Fourth Publication
and that payment therefore in the amount of \$
has been made.
- XMITT LOVI
Subscribed and sworn to before me this4th day
of
Barbar an Doang
Notary Public, Eddy County, New Mexico
My Commission expires September 23, 1991

Copy of Publication



Section XIV

Certification

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: Mike Butts Title: Agent

Signature: Mike Bitte Date: 5/2/88