

Amoco Production Company

Post Office Box 68 Hobbs, New Mexico 88240

L. R. Smith District Manager

March 4, 1986

File: SGH-287-WF

Re:

Application for Authorization to

Convert State "NC" No. 1 Lea County, New Mexico to Saltwater Disposal Well

Case 8885

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Mr. Richard L. Stamets

Amoco Production Company hereby makes application for administrative approval to convert State "NC" No. 1 to a saltwater disposal well. Form C-108 and required documentation is attached. Your prompt consideration of this application will be appreciated.

If additional information is needed, please contact Beverly Otwell (505) 393-1781.

BAO/tjt APRDO4-AA

Attachments

L. R. Smith son

March 4, 1986 File: SGH-287-WF Page 2

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Mr. Robert B. Eidson Eidson Ranch, Inc. West Star Route, Box 490 Lovington, NM 88260

Chevron U.S.A., Inc. P. O. Box 670 Hobbs, NM 88240

Union Texas Petroleum Division of Allied Chemicals P. O. Box 2120 Houston, TX 77252-2120 State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87501

Mobil Producing Texas and New Mexico, Inc. 9 Greenway Plaza, Suite 2700 Houston, TX 77046

H. L. Brown, Jr. P. O. Box 2237 Midland, TX 79702

Tenneco Oil Company P. O. Box 2511 Houston, TX 77001

STATE OF NEATCO ENERGY AND MINERALS DEPARTMENT

UIL CONSERVATION DIVISION POST DIFFICE BOX 2018 STATE LAND DIFFICE BUILDING

FORM C-108 Revised 7-1-81

	SANTA FE. NEW MEXICO 8/501
APPLICA	ATION FOR AUTHORIZATION TO INJECT Case 8855
I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Xyes no
II.	Operator: Amoco Production Company
	Address: P. O. Box 68, Hobbs, NM 88240
	Contact party: J. M. Breeden, Jr. Phone: (505) 393-1781
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?
· 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:
	 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.).
·*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.
ıx.	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: Beverly A. Otwell Signature: Murch 4, 1986 Date: March 4, 1986
	· · · · · · · · · · · · · · · · · · ·
submi	ne information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance ne carlier 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:
 - 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.

ITEM NO. 3 INJECTION WELL DATA

INJECTION WELL DATA SHEET

Amoco Production	Company	State NC No. 1				
Operator		Leas				
1 660 Well No. Fo	O' FEL x 1320' FNL otage Location	. 3 Section	16-S Townshin	32-E Range		
	otage Location	30001011				
Schematic		Surface Casing	<u>Tubular Dat</u>	<u>.d</u>		
(See attached wel	lbore sketch)	Size <u>13-3/8</u>	_" Cemented with	450 sx		
13-3/8" CSA 42	5'	TOC surface	feet determined	by <u>circulation</u>		
8-5/8" CSA 4,13 5-1/2" CSA 10,80		Hole Size 17-	-1/2"	<u> </u>		
		<u>Intermediate Ca</u>	sing			
		Size <u>8-5/8</u>	" Cemented with	<u>1805</u> sx		
		TOC surface	feet determined	by <u>circulation</u>		
		Hole Size				
		Long String				
		Size <u>5-1/2</u>	_" Cemented with	1850sx		
		TOC surface	feet determined	by <u>circulation</u>		
		Hole Size 7-7	/8"			
		Total Depth 10	,800'	I		
		Injection inter	val _9,080'	to <u>9,979'</u>		
Baker Lock-set (7/8" plastic coated)	_ lined with packer	plastic (Material) at 9000	set in a		
	and model) other casing-tubin	ng seal).				
Other Data						
1. Name of the	injection formation	on Wolfcamp				
2. Name of Fiel	d or Pool (if app	licable) <u>Ande</u>	rson Ranch			
3. Is this a ne	w well drilled for	r injection?	YesX	No		
If no, for w	hat purpose was th	he well original	ly drilled? Pro	duction of		
oil and gas	•					
perforated i	ever been perforantervals and give The Penn form	plugging detail	(sacks of cement	or bridge		
<u> 10470'. Ho</u>	wever after testin	ng nonproductive	a CIBP was set a	t 10400' and		
capped with	35' of cement.	<u> </u>	<u> </u>	 		
	th to and name any) in this area. \underline{T}					
_(-5694'). !	No overlying produ	uctive horizons a	are known to exis	t above the		
Wolfcamp.	(Note: The Wolfca	mp formation is	also productive.)		

AMOCO

Amoco Production Company

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FILE		

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ENGINEERING CHART

SUBJECT STATE NC NO. 1

ANDERSON KANCH

LOCATION: 1320 FNL GOOD FEL, SEC 3, T-16-5, R-32-E LEA COUNTY, NEW MENCO. ELEV: 4318 6L

4339.25 KB

IMPLETED: 10-16.84 FEDDUCINA.

1338" 48# H-40CSG SET AT 420' Cor of 4505x Clour CIEC 17/2"HOLE.

8 % "32 # 7-55 CSG SET AT 4138' CHT W/ 1405 SX LITELLAT x 400 Sx Clar. CIRC 11" HOLE

5/2" 17 15.5" N-80 1 K-55 CS4 SET AT 10800' CHT WY 1150 Sx LITE H CENT x 9005x HCMT 7%"HOLE.



218 INTERVALLY CONTR THE IN PARTER SET AT 1000 MIKER QUESTED LOT I ST EHRER LOW- SET

IME TUP CONTINUE WITCH やはら、水で5万、かにカ (PERFORMIED)

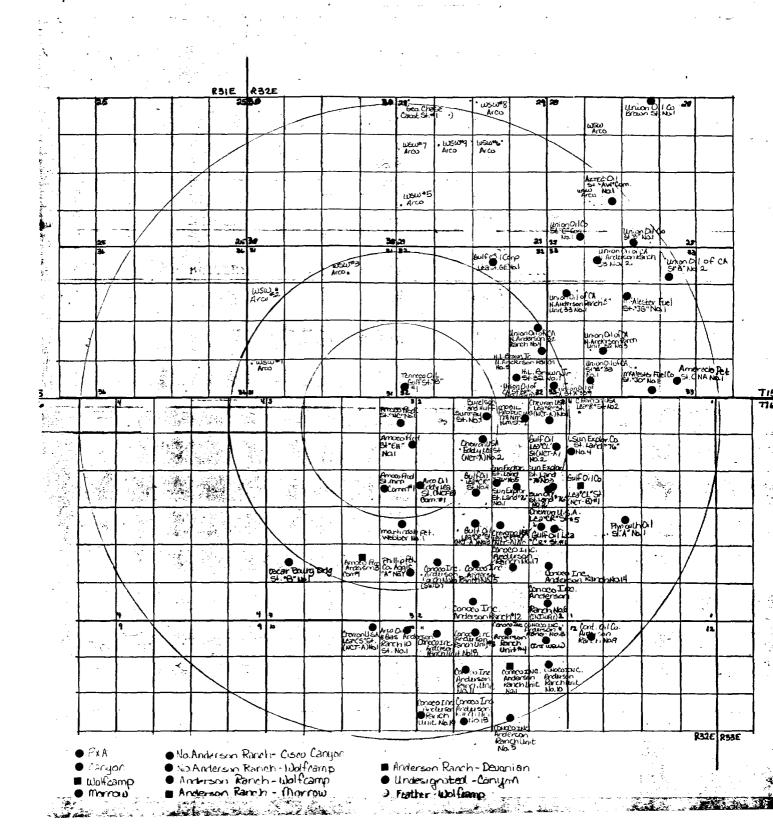
JERFS: 9552'- 9558' WJ 475PF VERFS: 9916-9980 WJ 475PF x Sq CHT. PERFS: 9916-9926, 9946-99576 WY 1584

CIBP 25/35'CHT LAP SA 10406'. PEEFS: 16450'-10470' ws] 4-TSPF

TO: 10800' PSTD: 9979'

ITEM NO. 5 AREA OF REVIEW AND LEASE OWNERSHIP MAPS

All Wells Within a Two Mile Radius of the Amoco Operated State NC No. 1 Well in Unit A of Section 3, T16S, R32E, in Lea County, NM



LG. 5650 80	15 23 Process
LG.5660 EO 250 EO 30 250 EO	Cobot Cal Mott Wills Unit to 1.84 10.1.84 1.84 1.84 1.84 1.84 1.84 1.84 1.84
Is 70 hz 3	28.00 30183 A 4074 Proneer Trates Union G. 1776 Prod. 9.1.84 H89 1776 1776 1776 1776 1776 1776 1776 177
State	the second secon
Union Union 6:1:88 6:1:88 LG:5420 LG:5420 214 92	Gulf 7 1 88 4 19.65 H8P F253, HC 1 4 19.65 HR 1 5 19.65 HR 1
Union Amoco 6:1:85 6:1:90 LG:5420 LG:8375 214:52 1201:12	H.L.Brown, Jn Exxon Union Philips Mc HBP 4-19-65 E8975 LH 885
173 1345 AMID 20 6 · 1/90 LG 8 3 7 5 1/2 0 1 12	Tenneco Gulf Union A Sun Union H Til 88 Review 5 H BP G 31 Til 10 905 CA7-7-64 F335 F66 F6
ARCO Amoco 8.1.89 5.1.90 V.1188 LG83.75 437.50 Sipre 1201.2	HL Brown, Jr 1010011 10 E-8914 NO. (King Fee) 1010011 State MIDN State NTO 12,700 (DCK MET MIN) OF 15110N STATE NTO 12,
Union Coll H.B.P. LG-3033 IE H.B.P. LG-3031 IE H	Gulf (hevronigurieson Mobil (hevron Gulf Gulf Gulf Gulf Gulf Gulf Gulf Gulf
LG 4425 19 1145 1 5 7720 P23	L STIEST CONOCO COMOCO

ITEM NO. 6 TABULATED WELL DATA FOR WELLS WITHIN AREA OF REVIEW

OPERATOR:	Amoco Prod	uction Co	ompany	 				
WELL NAME:	State "NC"	No. 1				···		
LOCATION:	(Unit A) 13	20' FNL 8	& 660 FEL SE	EC3		_S, R_32	E	
ELEVATION:	4318'		GL		DF <u>433</u>	9.25	_KB	
TD:	10,800'			PBTD:	9979'	<u> </u>		
			CASING DATA	1				
HOLE SIZE	SIZE	<u>WT</u>	DEPTH		OF CMT		TOC	
17-1/2"	13-3/8"	48#	420'	400	sx	Circ.	100	sx
11'	8-5/8"	32#	4138'	1805	sx	Circ.	out	277 sx
7-7/8"	5-1/2"	17# 15.5#	10800'	1850	SX	Circ.	out	50 sx
	NTERVAL: P	• • • • • • • • • • • • • • • • • • • •						-
COMPLETION	DATE: 6	-15-84						
CURRENT STA	ATUS: P	roducing						
COMMENTS: perforatio	Plan to	-		fcamp format	tion thr	ough		
					·			

RJG/tjt EPPRI8-DD

^{*} $\underline{\text{NOTE}}$: Must attach a wellbore schematic for all PxA wells illustrating details.

LOCATION:	(Unit I) 363	7 FNL & 810 FE	ו פבר	3	- 1	6 -S, R 3) ₋
	4315'		SEC.			4335'	
ELEVATION: TD:	10578'	GL	PBT		DF _ 9915'	+333	KB

AMT. OF CMT HOLE SIZE SIZE <u>WT</u> DEPTH TOC Circ. 110sx 17-1/2" 13-3/8" 48# 425' 425sx 100' 9-5/8" 5600sx 12-1/4" 40# 4193' 103001 2800sx Circ. 30sx 8-3/4" 5-1/2" 17# 20#

PRODUCING INTERVAL:	9812'-9846' N. Anderson Ranch-Wolfcamp
COMPLETION DATE:	9-7-80
CURRENT STATUS:	Producing (Oil and Gas)
COMMENTS: Well was	completed across 10084'-104', 10112'-130', 10140'-
150'. CIBP SA 10075'	. Well was also perforated across 10050'-062'.
CIBP_capped_with 35'	cmt set at 9950'.

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^{*} NOTE: Must attach a wellbore schematic for all PxA wells illustrating details.

OPERATOR:	Arco Oil	and Gas Co	mpany			
WELL NAME:	Eddy Lea	State (NCT	-B) Com. No.	1		
LOCATION:	(Unit L) 3	600' FNL x	<u>660' F</u> ₩§EC.	_2T	- <u>16</u> -S, R <u>32</u> -E	
ELEVATION:	4306 '		GL	DF	КВ	
TD:	10,750'		PE	TD: 99	60'	
		٠	ASING DATA			
HOLE SIZE	SIZE	<u>WT</u>	DEPTH	AMT. OF	CMT TOC	
17-1/2"	13-3/8"	54.5#	504'	800sx	Circ. 93	Bsx to surf.
11"	8-5/8"	28#	4180'	2600sx	Circ. 13	38sx to surf.
7-7/8"	5-1/2"	17#	10750'	1400sx	Plug dow	wn did circ.
PRODUCING I	INTERVAL: _	9818'-46	' No. Anderso	n Ranch-Wol	fcamp.	
COMPLETION	DATE:	5-8-85				
CURRENT STA	ATUS:	Producin	g			
COMMENTS:		None	-			

RJG/tjt EPPRI8-DD

^{*} $\underline{\text{NOTE:}}$ Must attach a wellbore schematic for all PxA wells illustrating details.

OPERATOR:	Amoco Pro	duction Com	ipany		
WELL NAME:	State "El	l" No. 1	 		
LOCATION:	(Unit H) 23	310' FNL x 3	330" FELSE	$\frac{3}{1}$	6 -S, R 32 -E
ELEVATION:	4312'	@	iL	DF	КВ
TD:	10,200'			PBTD: 10,070'	(PxA)
		C.0	ICING DATA		
HOLE SIZE	SIZE	WT	SING DATA DEPTH	AMT. OF CM	T TOC
17-1/2"	13-3/8"	54.5#	400'	420sx	Circ. 200sx
11"	8-5/8"	32 #	4140'	1200sx	Circ. 703sx
PRODUCING 1	INTERVAL:	None			
COMPLETION	DATE:	1-19-85			
			· · · · · · · · · · · · · · · · · · ·		
CURRENT STA	ATIIC •	РхА			
CORRENT 517		<u> </u>			
COMMENTS.	Woll was	duilled and	1 abando	/ (Dyodustis:	aing was not
	weii was	urriled and	apandoneo	d (Production ca	sing was not
<u>run.).</u>					····

RJG/tjt EPPRI8-DD

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^{*} $\underline{\text{NOTE}}$: Must attach a wellbore schematic for all PxA wells illustrating details.



Amoco Production Company

FILE		

SHEET NO.

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SUBJECT_	STATE EH NO.1	
	1	AHOUS VEDOUCTON)
	MUDEKODU TIHUCH	(I IMOCO I EDUUCIION)
	,	

DATE 2/5/80 BY ROA

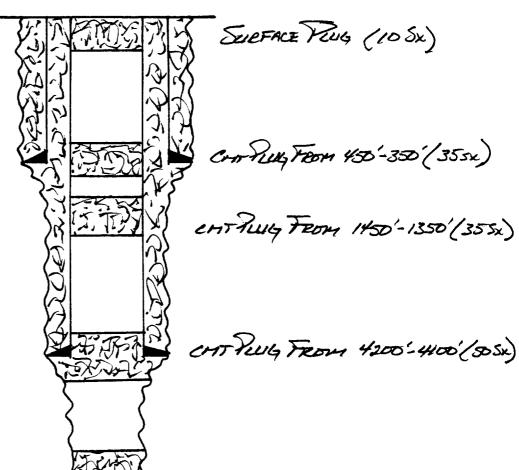
LOCATION: 2310 FUL STEL, SEC 3, T-16-5, R-32-E LEA COUNTY, NEW MEXICO

ELEV: 4312 6L

ARILLES AND ABANDONED 1-19-85

13 38" 54.5# CSA 400' CHTW/42082 CIRC 17/5"HOE.

898" 32#CSA 4146' CHT W/120084 CIEC 11"HOLE.



CATTYLUG TROM 6500'-6400' (505x)

CHT PLUG FROM 9000'-8950' (605x)

CHT PLUG FROM 10070'-9970'. (505x)

TD: 10200' P870: 10070

OPERATOR:	Burleson a	nd Huff				
WELL NAME:	Sunray Sta	te No. 1				
LOCATION:	(Unit C) 99	O FNL' x	2310' FW\$EC.	2 T- 16	S, R32E	
ELEVATION:	4310'		GL	DF	KB	
TD:	9900'		PB	TD:		
		ſ	CASING DATA			
HOLE SIZE	SIZE	WT	DEPTH	AMT. OF CMT	<u>T0C</u>	
17-1/2	13-3/8"	48#	409'	420sx	Circ.	
11"	8-5/8"	24# 32#	3450'	400sx	Approx. 2	2000'
PRODUCTNO II	NTEDVAL.					
PRODUCING II	NTERVAL:					
COMPLETION I		5-67 TD				
COMPLETION	DAIL	5-07 ID				
CURRENT STA	TUS: PxA			,		
CONNENT SIN	103.	<u>.</u>				
COMMENTS:	Waterflow e	encounter	ed when settir	ng casing at 220	0'.	
_	Wa da. T. ov. S			<u>. </u>		
						
						

RJG/tjt EPPRI8-DD

^{*} $\underline{\text{NOTE}}$: Must attach a wellbore schematic for all PxA wells illustrating details.

AMOCO

Amoco Production Company

ENGINEERING CHART

SUBJECT SUNTAY STATE NO. 1

ANDERSON KANZH (EVELESON AND HOFF)

FILE

KOLATIONS: 990 FUL F2310 FUR SEC 2, T-16.5, R-32-E LEA COUNTY, NEW MEXICO.

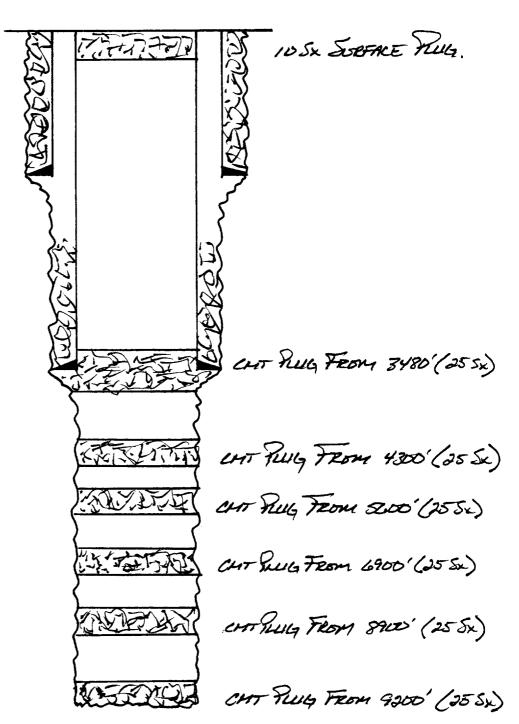
ELEV: 4310 6L

SHEET NO.

CAMPLETED: 2-5-67.

135/8" 48 CSA 469' CHT W/408x 174"HOE.

8 78" 24 32" CSA 3450' CAT W/ 400 SX. 11"HOTE



70:9900'

OPERATOR:	Tenneco	Oil Company	·			
WELL NAME:	Gulf Sta	te "B" No.	1			
LOCATION:	Unit M 66	0 FSL & 660	FWL S	SEC. 32	т_ 15	S, R <u>_32</u> E
ELEVATION:	4321'	G	àL	· · · · · · · · · · · · · · · · · · ·	DF	КВ
TD:10,3	05'					
HOLE SIZE	SIZE	WT CA	ASING DAT DEPTH		T. OF CMT	TOC
17-1/2"	13-3/8"		481'		480 sx	Cmt Circ
11"	8-5/8"	24#, 32#	4201'	4	200 sx	Cmt Circ
PRODUCING I	NTERVAL: _	None				
COMPLETION	DATE: Ju	ly 5, 1964				
CURRENT STA	TUS: Px	A				
•	Encounter	ed water sa	and from	2215-2240)' flowed i	n excess of
6,000 BWPH						
						····

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^{*} $\underline{\text{NOTE}}$: Must attach a wellbore schematic for all PxA wells illustrating details.



Amoco Production Company

SHEET NO. OF

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ENGINEERING CHART

SUBJECT GULF STATE B" No. 1

ANDERSON FANCH (TERMECO OIL CO.)

DATE 0/5/86
BY

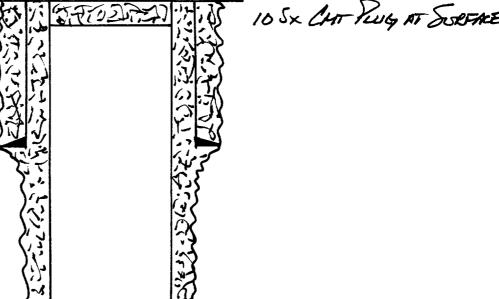
LOCATION: 660FSL FINL, SECTION 32, T-15-5, Z-32-E LEA COUNTY, NEW MEXICO.

COMPLETED : DXA 75-LH.

ELEV: 4321'GL.

1338" 48#CSA 481' CAT WJ 480 SX CIRC 1751 HOLE.

898" 24 5'32# CSA 4201' CAT WJ 4200 SX CARC, 11"HOLE



CM PLUG FROM 4200' (25 5x)

1821/1823 1821/1823

的可以对中

ant Puls From SILES (25 Sx)

CMT PLUSTROM 6860 (25 Sx)

CAT PLUG FEOM 8980'(255x)

70:10305

OPERATOR: _	Gulf Oil	Corpora	tion		
WELL NAME:	Lea "CR"	State N	CT-A #4		
LOCATION: (I	Jnit K) 364	O' FNL	FWL <u>% 1980'</u> SEC.	2T <u>16</u>	S, R <u>32</u> E
ELEVATION:	4301'		GL	DF	КВ
TD: 13,500	o'		Р	BTD:	
			CASING DATA		
HOLE SIZE	SIZE	WT	DEPTH	AMT. OF CMT	TOC
17-1/2"	13-3/8"	48#	618'	650 sx	Circ. Cmt
12-1/4"	9-5/8"	36#	4200'	3350 sx	1335'
8-3/4"	7"	32#	13,498'	1025 sx	9495'
				9754-64' 9772-8	2', 9808-16'
Anderson Rand			-58' Morrow		
COMPLETION DA	ATE: 1-2	4-57			
CURRENT STAT	US: PxA				
COMMENTS: _			-		

RJG/tjt EPPRI8-DD

^{*} $\underline{\text{NOTE}}$: Must attach a wellbore schematic for all PxA wells illustrating details.

ENGINEERING CHART

SUBJECT LEA "CR" State NCT

orm 33 2-71

FILE APPN. 1-8-86

SHEET NO.

CMT. PLUG 50'- SURFACE PO . C	
0 CP	
	13% (59 Set@ 618
TOCO 1335' TO	189945'CCQ CUL Q 1460'
(S)	$\begin{bmatrix} \frac{1}{2} \frac{2}{3} \\ \frac{1}{3} \frac{2}{3} \end{bmatrix} = 0$
0	
``	
Cmr PLUG: 4050-4150	/
	7"csg. cut @ 4750'
CMT PLUG 5750'-5650'	000
COTT PLUG 1950: 6850'	<u>0:0:0</u>
	D TOC @ 9495'
	0 P TOC @ 4495
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	$\left\langle \begin{array}{cccccccccccccccccccccccccccccccccccc$
	The season of th
· · · · · · · · · · · · · · · · · · ·	OCIBP @ 11999' w/a sx cmt Baker "D" Packer set @ 12,000'
	IN DOKER D POCKER SEC @ 12,000

OPERATOR:	Chevron	USA, Inc.				
WELL NAME:	Eddy Lea	State No.	2			
LOCATION:	(Unit F) 264	0' FNL x 1	FWL 650' SE(). <u>2</u>	2 T- 16	-S, R <u>32</u> -E
ELEVATION:	4296'	G	iL		DF <u>43</u>	313' KB
TD: 998	1'			PBTD:	9818'	
		C //	SINC DATA			
HOLE SIZE	SIZE	WT	SING DATA DEPTH	A!	MT. OF CMT	TOC
14-3/4"	11-3/4"	 42#	475'		377 sx	Circ. 10 sx
11"	8-5/8"	32#, 24#	2947'		750 sx	Circ. 125 sx
7-7/8"	5-1/2"	17#	9981'		600 sx	
PRODUCING I	_	9856-60',	9823-45',	9700-9	9776' N. Ande	erson
COMPLETION	DATE: 10-1	1-85		· · · · · · · · · · · · · · · · · · ·		
CURRENT STA	ATUS: PXA			· · · · · · · · · · · · · · · · · · ·		
COMMENTS:						
* NOTE: Mu	st attach a	wellbore s	chematic 1	for all	PxA wells i	llustrating

RJG/tjt EPPRI8-DD

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AMOCO

Amoco Production Company

SHEET NO.

ILE			

(C)
(AMOCO)

ENGINEERING CHART

ANDERSON KANCH (CHEVEON USA INL)

DATE 2/5/84

LOCATION: 2640 EUL ; MSD'FUSL, SEC 2, T-16-5, R-37-E LEA COUNTY NEW HEXICO.

ELEV: 4296 GL 4313' KB.

COMPLETED: 10/11/85.

1134" 42 "CSA 475" CEC 1434"HOLE.

898"24532# CSA 2947' CHT W7 750 8x 11" HOLE

5/2" 17# CSA 9981' C+07 W 600 Sx TOMT- 5700 CALC. 7% Hore

CHT PLUG FROM 150 TO SULFACE ONT PLUG TEOM 505'TO 435'

CHAT WE TROM 1230'TO 1050' 3100' OF 5/3" CASING WAS PULLED AVENTS PUA

CHT RET AT 2806" CAT PLUG FROM 3125'

Top of Truck 3/28

R8P SA 5600

YERFS: 9856-60, 9823-45 AND 9750-9776

7219982 FBTD: 9818'

DATA ON PROPOSED OPERATION STATE "NC" WELL NO. 1

1. Proposed average and maximum daily rates to be injected:

Average daily rate of 800 BWPD. Maximum daily rate of 2000 BWPD.

- 2. System will be closed with water being transferred through line pipe from producing wells to the injection well.
- 3. The maximum surface injection pressure will be limited to 0.2 psi/ft (2600 psi) or the actual fracture pressure will be determined by a step-rate test. The average injection pressure is expected to be approximately 100 psi or less.
- 4. The source on injected fluids will be from Amoco Production Company's nearby State "MM" Lease. The State "MM" No. 1 is completed in the Wolfcamp Formation.
- 5. Injection will be into the Wolfcamp Formation which is productive within 1 mile.

GEOLOGICAL INFORMATION

The Wolfcamp Formation is a carbonate formation, limestone. The total thickness is approximately 1000 feet with the top of the Wolfcamp at ± 8990 '. The only source of drinking water in the area is the Ogallala. The base of the Ogallala is approximately 250 feet deep. There are no drinking water sources below the Wolfcamp Formation.

PROPOSED STIMULATION PROGRAM

The proposed injection well will be completed through 5-1/2" production casing across the Wolfcamp Formation. The well will be acidized with 7000 gallons 15% HCl and evaluated for injectivity. In the event adequate injection is not obtained, the well will be fracture stimulated.

WELL DATA

The well was logged from TD to 4132' on July 29, 1984. All logs have been furnished to the NMOCD.

ITEM NO. 11 CHEMICAL ANALYSIS OF FRESH WATER

UNICHEM INTERPATIONAL

707 NORTH LEEDH P.O.Bim Jank

HOBBS, NEW MEXICO 88240

######################################		City of Carlabad Sec. 31, T-15-5, R-32-E (433) Source L 04914 Status PMT Use Com.				
		<u> </u>	120			
J4.70 V 3						
084013M M40 5500 80514M	(CA)+2 (MG)+2 (NA),CALC.	1.1 2.8 .85	23:4 34:: 12::			
Aug Die						
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[0]4]3 STRENGTA MG241) =7E-03					
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-19.

SMALIBELE

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CALITIMIT OULFHIE INDEX

Cat Illin WilfATE ECALING

LALIDOM DARBOMATE SCALING

UNICHEM INTERNATIONAL

707 NORTH LEECH 9.0.80% 1499

HOBBS, NEW MENTED 48148

SCM.F41 : AMOUD PRODUCTION COMPARY LATE : CRASSMEDT : CRASSALLABLE #11 SAMPLICE FOLKER: CATE CHIPLED : SZMIRKS SPECIFIC CRAVITY = 1 TOTAL CIERCULE SOLICS = 792 3-1 = 1,86		H. L. Brown Sec. 32, T-15-S, R-32-E (4432) Source: L 09348 Status: PMT Use: OWD					
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SCALING INDEX	∓E#E
CASHIMATS INDEX	308 84F 3.11
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NALININ KULPATE IMMEX Daumilen Sulmate Boaling	HIT. UNLIMELY

AFFIRMATIVE STATEMENT

No evidence of open faults or any other hydrologic connection between the proposed injection zone and any underground source of drinking water was found.

ITEM NO. 13 "PROOF OF NOTICE" INFORMATION

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.
1,
Robert L. Summers
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period
of
One weeks.
Beginning with the issue dated February 28 86
, 19
and ending with the issue dated February 28 86
February 28, 19 86 Rahi f L. Summer. Publisher.
Sworn and subscribed to before
me this 28 day of
Telenery, 1986
Notary Publish
My Commission expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
February 28, 1986
To Whom It May Concern:
Amoco Production Company
intends to apply for administrative approval to convert State "NC" No. 1 to a
saltwater disposal well. The
well is located in Unit Letter A,
Section 3, Township 16-South, well is located in Unit Letter A, Section 3, Township 16-South, Range 32-East, Lea County, New Mexico. The purpose of this work is to dispose of produced water from Amoco Production Company's State "MM" Lease to the subject wellbore located on the State "NC" Lease. The water will be injected into the Wolframp wellbore located on the State "NC" Lease. The water will be injected into the Wolfcamp Formation at an average rate of 800 BWIPD. Maximum surface injection pressure will be limited to 0.2 psi/ft. Average injection pressure is expected to be 100 psi or less. Any questions concerning this project may be directed to Mr. John M. Breeden, District Foreman, Amoco Production Company, P.O. Box 68, Hobbs, New Mexico 88240, Phone (505) 393-1781. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2068, Santa Fe, New Mexico 87501 within 15 days.

L.R. Smith District Manager

District Manager
Amoco Production Company
P.O. Box68
Aobbs, NM 88240

P 119 335 400 - p 119 335 853 P 119 335 894 RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL NO INSURANCE COVERAGE PROVIDED NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL NOT FOR INTERNATIONAL MAIL (See Reverse) (See Reverse) How Sent to / 1984-446-014 w of Public P.O., State and ZIP Code P.O., State and ZIP Code P.O., State/and ZIP Code U.S.G.P.O. U.S.G.P.O. nm 8750. \$1.24 Postage Postage Postage 24 Certified Fee 75 Certified Fee Certified Fee ,75 73 Special Delivery Fee Special Delivery Fee Special Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom and Date Delivered 70 70 70 Return receipt showing to whom, Date, and Address of Delivery Return receipt showing to whom, Date, and Address of Delivery TOTAL Postage and Pees TOTAL Postage and Fees \$ 2.69 Feb TOTAL Postage and Fees 2.69 .69 Tree Postmark or Date Postmark or Date PS Form 3800, 380 Form Form S S P 119 335 898 P 119 335 897 P 119 335 899 RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse) (See Reverse) (See Reverse) Sent to Hobil Produce Lene of Street and No. 2237 iti P.O., State and ZIP Code 79702 U.S.G.P.O. Postage Postage Postage \$ 1,24 1.24 Certified Fee Certified Fee Certified Fee 75 Special Delivery Fee Special Delivery Fee Special Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom and Date Delivered Return Receipt Showing to whom and Date Delivered 70 70 10 Return receipt showing to whom. Date, and Address of Delivery Return receipt showing to whom, Date, and Address of Delivery Return receipt showing to whorn, Date, and Address of Delivery Feb TOTAL Postage and Fees TOTAL Postage and Fees TOTAL Postage and Fees Feb. \$2.69 2.69 Postmark or Date 86 00 00 3800 Postmark or Date PS Form 3800 m PS Form PS Form

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