DISTRIBUTION SANTA FE FILE U.S.G.S.	* f:	MEXICO OIL CONSE	RVATION COMMISSION	N Dens Hevt 5A.	O - O7 S - J 3 J J O - O1 S - O1 S - J 3 J J O - O1 S - O1 S - J 3 J J O - O1 S - O1
LAND OFFICE OPERATOR				I	date Off & Can Leanse No.
APPLICATIO	N FOR PERMIT TO	DRILL DEEDEN	OP PLUC BACK		
1a. Type of Work	NOT ENMIT TO	DRICE, DELI EN,	OK 1 LOG BACK	7. (Juit Agreement Name
b. Type of Well DRILL X		DEEPEN	PLUG E	BACK B. I	arm or Lease Name
OIL X GAS WELL	OTHER		SINGLE X MUL		NTA FE-BARBS
2. Name of Operator DOME PETROLEUM C	ORP.		•	J	l No.
3. Address of Operator				10.	Field and Pool, or Wildcat
501 Airport Driv	re, Suite 107, F	armington, New	Mexico 87401	1	Wildcat Entrada
4. Location of Well UNIT LETTI			WP. 21N RGE. 1	OW HMPM	County
				//////	n Juan
			9. Proposed Depth 1	9A. Formation	20, Rotary or C.T.
			5800	Entrada	Rotary
21. Elevations (Show whether DF	RT, etc.) 21A. Kind	& Status Plug. Bond 2	IB. Drilling Contractor		. Approx. Date Work will start
6404 G.R.	STAT	EWIDE	Four Corners Dr	illing (October 1, 1978
23,		ROPOSED CASING AND	CEMENT PROGRAM		•
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CE	MENT EST. TOP
13-1/4"	9-5/8"	32.3	200	200	Surface
8-3/4"	7"	20 & 23	5800	1000 (2	stage Surface
				1	
Operator propose Completion will will be used dur	be determined f	rom Logs. A Se	ries 900 (3000)		wout Preventor
	تر ف	Paganag saga s	•	general constitution	
			•		
	98.3%	•		1 0-	en en en
•	EX21323 1	2-19-78		OIL	6 0.1.7
N ABOVE SPACE DESCRIBE PR INC ZONE. GIVE BLOWOUT PREVENT	OPOSED PROGRAM: IF ER PROGRAM, IF ANY.	PROPOSAL IS TO DEEPEN O	R PLUG BACK, GIVE DATA ON	PRESENT PRODUCTI	VE ZOMÉ AND PROPOSED NEW PROD
hereby certify that the information	on above is true and com	plete to the best of my kr	nowledge and belief.		San Company of the Co
iened 21102 Lemicas	want	Tule_Drilling	Foreman	Date	9/5/78
(This apuce for	Signe Use)			·	SELV
ONDITIONS OF APPROVAL, IF	ANVI			DATE	

All distances must be from the outer boundaries of the Section. Operator Well lin. DOME PETROLEUM CORPORATION SANTA FE-BARBS Unit Letter Township County Hango 21N 104 San Juan Actual Footage Location of Well: foet from the South 500 line and Ground Lovel Elev. Producing Formation Pool Dedicated Acroages **640**h ENTRADA WILDCAT Acres I. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation ... Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name H. D. Mollingsworth Position Drilling Foreman Company Dome Petroleum Corp. Date 9/4/78 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and bellef. OIL CON. COM 5001 DIST. 3 ed. 3950

880' 1020 1680 1880 2010 2640

660



NICK FRANKLIN

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

September 12, 1978

Mr. H. D. Hollingsworth Dome Petroleum Corporation 501 Airport Drive, Suite 107 Farmington, New Mexico 87401

Re: Dome Petroleum Corporation Santa Fe Barbs #1 M-10-21N-10W

Dear Mr. Hollingsworth:

We are returning the acreage dedication plats for the above well. Please complete the form as indicated by the red marks and underscoring.

If you have any questions, please call this office.

Yours truly,

Frank T. Chavez Deputy Inspector

Enclosures

FTC:no

as or corresponding	Form C-103
DISTRIBUTION	Supersedes Old
SANTA FE / NEW MEXICO OIL CONSERVATION COMMIS	G-102 and C-103 SSION Effective 1-1-65
FILE	=======================================
	5a. Indicate Type of Lease
U.S.G.S.	
LAND OFFICE	State Fee X
OPERATOR Y	5. State Oil & Gas Lease No.
	· ·
SUNDRY MOTICES AND DEBORTS ON WELLS	THE STATE OF THE S
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEPEN OR PLUG BACK TO A DIFFERENT RE USE "APPLICATION FOR PERMIT _" (FORM C-101) FOR SUCH PROPOSALS.)	SERVOIR.
1. OIL TY GAS	7. Unit Agreement Name
WELL X WELL OTHER-	
2. Name of Operator	8. Farm or Lease Name
Dome Petroleum Corp.	Santa Fe-Barbs
3. Address of Operator	9. Well No.
501 Airport Drive, Suite 107, Farmington, N.M. 87401	1
4. Location of Well	
	10. Field and Pool, or Wildcat
UNIT LETTER M . 990 FEET FROM THE SOUTH LINE AND 50	00 Wildcat-Entrada
THE West LINE, SECTION 10 TOWNSHIP 21N RANGE 10V	,
THE LINE, SECTION TOWNSHIP RANGE	
15, Elevation (Show whether DF, RT, GR, etc.)	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12. County
6404' GR.	San Juan
Check Appropriate Box To Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO:	
NOTICE OF INTENTION TO.	SUBSEQUENT REPORT OF:
	
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEN	ADL THE
OTHER ST	oud & Set Surface
OTUE B	
VINES	
17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent	t dates, including estimated date of starting any proposed
work) SEE RULE 1103.	, , , , , , , , , , , , , , , , , , , ,
10/0/20	•
10/9/78 - Spudded 13 3/8" hole at 5:00 P.M. 10/9/78	
- Ran 4 joints (185') 9 5/8" O.D., 32.3#, H-40, ST&	C Casing.
	_
Set at 197' KB. Cemented with 200 sx Class "B" C	ement with
3% CaCl. Plug down at 1:15 A.M. 10/10/78. Circ	culated cement.
	gard work the same was a same and
•	and the second of the second o
	A Committee of the Comm
	Angelon -
18. I hereby certify that the information above is true and complete to the best of my knowledge and be	elief.
SIGNED J. Unodhell TITLE Operations Manage	er 10-19-78
SIGNED TITLE OPERATIONS HANDE	DATE TO 17 70
Original Signed by A. R. Kendrick SUPERVISOR DIST.	● 10.1 20 19/0
SUPERVISOR DIST.	المنافق

CONDITIONS OF APPROVAL, IF ANY:

DISTRIBUTION SANTA FE	NEW MEXICO	O OIL CONSERVATION COMMISSION	Form C-103 Supersedes Old C-102 and C-103 Effective 1-1-65
U.S.G.S. LAND OFFICE OPERATOR	4		State State Oil & Gas Lease No.
(DO NOT USE THIS FORM	SUNDRY NOTICES AND REF	PORTS ON WELLS PEN OR PLUG BACK TO A DIFFERENT RESERVOIR101) FOR SUCH PROPOSALS.	
1. OIL GAS WELL 2. Name of Operator	OTHER- Water D	Disposal Well	7. Unit Agreement Name 8. Farm or Lease Name
Dome Petroleum	Corporation		Santa Fe-Barbs
	ive, Suite 107, Farmi	ngton, New Mexico 87401	9. Well No. 1
4. Location of Well UNIT LETTER M	990 FEET FROM THE	South LINE AND 500 FEET	10. Field and Pool, or Wildcat Wildcat-Entrada
THE West LIN	E, SECTION 10 TOWNSH	RANGE 10W	vmem. (()))))))))))))))
	15. Elevation (5 6404	Show whether DF, RT, GR, etc.) GR	12. County San Juan
	, , , , , , , , , , , , , , , , , , , 	Indicate Nature of Notice, Report o	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND A	ABANDON REMEDIAL WORK COMMENCE DRILLING OPNS. CASING TEST AND CEMENT JOB OTHER Production C	ALTERING CASING PLUG AND ABANDONMENT Sasing X
OTHER			
17. Describe Proposed or Comp work) SEE RULE 1103.	leted Operations (Clearly state all	pertinent details, and give pertinent dates, incl	uding estimated date of starting any proposed
10/23/78	5607' KB. Cemented Gilsonite/sk. Follo 10:40 am 10/23/78. Cemented second stag per sack. followed	s, 7", 20# & 23#, K-55, R-3, first stage w/430 sx 65/35 powed w/100 sx Class B w/10% s Opened DV tool at 3876' and se w/360 sx 65/35 pozmix w/6% w/50 sx Class B w/10% salt. ed cement on both stages	pozmis w/6% gel, 10# calt. Plug down at circulated 4 hours. c gel, 10# gilsonite
	•		, esirante angue
18. I hereby certify that the info	ormation above is true and complete	to the best of my knowledge and belief.	
SIGNED + 1/25	- o which	TITLE Operations Manager	DATE 10/31/78
Original Signed by	r (. M. Esciriuk	SUPERVISOR DIST. #3	DATE (1)77
CONDITIONS OF APPROVAL.	IF ANY:	•	

SUBJECT: SALT WATER DISPOSAL WELL

ORDER NO. SWD-213

THE APPLICATION OF DOME PETROLEUM CORPORATION FOR A SALT WATER DISPOSAL WELL

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701 (C), Dome Petroleum Corporation made application to the New Mexico Oil Conservation Division on November 20, 1978, for permission to complete for salt water disposal its Santa Fe-Barbs Well No. 1 located in Unit M of Section 10, Township 21 North, Range 10 West, NMPM, San Juan County, New Mexico.

The Division Director finds:

- (1) That application has been duly filed under the provisions of Rule 701 (C) of the Division Rules and Regulations;
- (2) That satisfactory information has been provided that all offset operators and surface owners have been duly notified; and
- (3) That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 (C) will be met.
- (4) That no objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED:

That the applicant herein, Dome Petroleum Corporation, is hereby authorized to complete its Santa Fe-Barbs Well No. 1 located in Unit M of Section 10, Township 21 North, Range 10 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the Entrada formation at approximately 5428 feet to approximately 5600 feet through 3 1/2 inch plastic lined tubing set in a packer located at approximately 5350 feet.

IT IS FURTHER ORDERED:

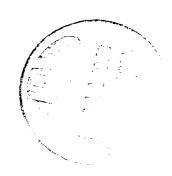
That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

That injection pressure shall not exceed 1080 pounds per square inch as measured at the surface.

That the operator shall notify the supervisor of the Division's Aztec District Office before injection is commenced through said well;

That the operator shall immediately notify the Supervisor of the Division's Aztec office of the failure of the tubing, casing or packer in said well or the leakage of water from or around said well and shall take such steps as may be timely or necessary to correct such failure or leakage.



by the Division for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing, the Division may terminate the authority hereby granted in the interest of conservation. That applicant shall submit montly reports of the disposal operations in accordance with Rule 704 and 1120 of the Commission Rules and Regulations.

APPROVED at Santa Fe, New Mexico, on this 8th day of December, 1978.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY Division Director

SEAL





DOME PETROLEUM CORP.

SUITE 1500, COLORADO STATE BANK BLDG. 1600 BROADWAY

DENVER, COLORADO 80202

Telephone (303) 861-1230

TABULATION OF DEVIATION TEST

DOME PETROLEUM CORP.

SANTA FE - BARBS #1

SAN JUAN COUNTY, NEW MEXICO

M-10-21-10

DEVIATION	DEPTH
10	210
10	464
1 1/4° 10	71 5
10	1254
20 10	1553
	2020
3/4°	268 6
10	3130
10	3632
10	4157
10	5188
3/4°	5429

AFFIDAVIT

This is to certify that the above deviation tests are correct to the best of my knowledge.

H. D. HOLLYNGSWORTH

DRILLING FOREMAN

DOME PETROLEUM CORPORATION

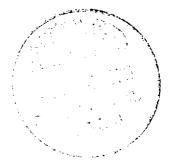
Subscribed and sworn before me this day, the $\frac{14}{2}$ th

day of August, 1979.

hers Notary Public

My commission expires

12,1980





ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE



1000 RIO BRAZOS F AZTEC, NEW MEXICO 15051 334-6178

	OIL CONSERVATION DIVISION BOX 2088 SANTA FE, NEW MEXICO 87501
•	DATE March 8, 1992
	RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX
	Gentlemen:
	1 have examined the application dated March 1 1982
	for the Dime Petro Coro Santa Fe Lege # 1 M-70-21N-10h Operator Lease and Well No. Unit, S-T-R
	and my recommendations are as follows:
	Too close to the water well for the Chan Congo Notional Park
	They use the Gallap for a water supply and already have to use a large filtering system for it
	Yours truly,
	Jeff a. Elmiten

NO. OF COPIES RECEIVED			Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO	O OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE /			5a. Indicate Type of Lease
U.S.G.S.			State Fee XX
OPERATOR 7			5. State Oil & Gas Legse No.
OFERATOR /			5. 5.515 5.1 9 542 2422 110.
SUN	DRY NOTICES AND REP	PORTS ON WELLS PEN OR PLUG BACK TO A DIFFERENT RESERVOIR101) FOR SUCH PROPOSALS.)	
1.			7. Unit Agreement Name
2. Name of Operator	OTHER- WAT	TER DISPOSAL WELL	8. Farm or Lease Name
,			
3. Address of Operator	DRPORATION		SANTA FE BARBS 9. Well No.
501 Airport Drive	. Suite 107, Farmi	ington, New Mexico 87401	1
4. Location of Well			10. Field and Pool, or Wildcat
UNIT LETTER	990 FEET FROM THE .	SOUTH LINE AND 500 FEET	FROM WILDCAT-ENTRADA
THE LINE, SE	CTION 10 TOWNS	HIP 21N RANGE 10W N	MPM. (())
mmmmm	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
		04 GR	SAN JUAN
16. Chec		Indicate Nature of Notice, Report or	
	INTENTION TO:	<u> </u>	ENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND A		ALTERING CASING
PULL OR ALTER CASING	CHANGE PL	COMMENCE DRILLING OPNS. ANS CASING TEST AND CEMENT JOB	PLUG AND ABANDONMENT
POLE OF ALIER CASING	CHARGE FE	OTHER INITIAL WATE	R DISPOSAL X
OTHER			
	(0)		
17. Describe Proposed or Completed work) SEE RULE 1103.	i Operations (Clearly state all	pertinent details, and give pertinent dates, incl	uding estimated date of starting any proposed
injection of prod	nuced water was in	itiated into this well on Aug	just 24, 1979.
			gen i mark
	·		
18. I hereby certify that the information	tion above is true and complete	e to the best of my knowledge and belief.	
MM al.		DETLITIC ECDEMAN	Contombor E 1070
H. D. HOLLINGSWORT	TH THE	TITLE DRILLING FOREMAN	DATE September 5, 1979
H.D. HOLLINGSWOR	1. R. Kendrick		Ţ ₹*ţ×
	•	TITLE SUPERVISOR DISTRICT # 3	DATE
CONDITIONS OF APPROVAL, IF A	A N Y :		
COMMITTORS OF AFFIROTAL, IT	** * *	·	



Dome Petroleum Corp.

2900 DOME TOWER
1625 BROADWAY
DENVER, COLORADO 80202

TELEPHONE (303) 620-3000

February 24, 1982

Joe D. Ramey Secreatry Director New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe New Mexico 87501



Re: Application for Salt

Water Disposal Leggs Field

File: WF

Gentlemen:

Attached is our application for salt water disposal in the Leggs field.

Very truly yours,

DOME PETROLEUM CORP

M. Choran

Sr. Reservoir Engineer

MC:jp

Attch.

cc: Frank Chavez

Districe Office for

NW New Mexico

Chaco Culture National

Historical Park

Broomfield, New Mexico

Bureau of Indian Affairs

Windowrock Arizona



Dome Petroleum Corp.

2900 DOME TOWER
1625 BROADWAY
DENVER, COLORADO 80202

TELEPHONE (303) 620-3000

February 24, 1982

Joe D. Ramey Secreatry Director New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe New Mexico 87501



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Water Disposal Leggs Field

File: WF

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Very truly yours,

DOME PETROLEUM CORP

M. Choran

Sr. Reservoir Engineer

MC:jp Attch.

cc: Frank Chavez

Districe Office for

NW New Mexico

Chaco Culture National

Historical Park

Broomfield, New Mexico

Bureau of Indian Affairs

Windowrock Arizona

ITEM I - IV

On Form

ITEM V

Map 1

ITEM VI

Only the subject well Santa Fe Barbs #1 is in area of review. Data on this well is indicated in part III except well was spudded 10-14-78.

ITEM VII

- 1. Average injection rate 10,000 Bbl/D maximum rate 12,000 Bbl/D.
 - 2. The system is open.
 - 3. Average injection pressure is 750 psia maximum injection pressure 1000 psia.
 - 4. Attached is water analysis of Leggs #1. The disposal zone has a water salinity of 1600 ppm the water to be disposed has a salinity of 8670 ppm. Both classify as drinking water source.
 - 5. We determine water quality of Gallup zone by log interpretation. The logs on the Barbs No. 1 well indicates a good Gallup sand development field. Density porosity is 18-20% and the deep induction resistivity is 25-30 ohm m²/m for the interval 3316-3334′. The SP curve is reversing in this interval.

ITEM IX

Perforate and acidize

ITEM X

Logs have been sent

ITEM XI

No fresh water producing well within one mile

ITEM XII

By classification the Gallup classifies as a drinking water source. But the injection fluid also classifies as a drinking water source. The Gallup is not connected by faluts to any other zones.

ITEM XIII

Attached is proof of notice published in the Farmington Daily Times February 1, 1982.

This occurs when the formation water is fresher than the mud filtrate. Rmf was .99 at $58^{\circ}F$ (which is approximately 7700 ppm). Maximum recorded temperature during logging was $130^{\circ}F$. Assuming $60^{\circ}F$ at the surface the temperature gradient in (130- $60^{\circ}F$) - 5600° = $.0125^{\circ}F/ft$. The BHT at 3320' should be $102^{\circ}F$. Rmf at $102^{\circ}F$ is .58. Rmfeq = .85 (Rmf) = .49 (using chart Gen-9). Using chart SP - 1 from Schlumberger chart book, ignoring bed thickness effect, and using SP = +15 then Rmfeq/Rwe = .55. It follows that Rwe = $\frac{.49}{.55}$ = .89. Using chart SP - 2 then Rw = 2.3. This equivalent to 1600 ppm salinity.

ITEM VIII

Data pertaining to planned injection at Leggs Field

<u>Lithologic Detail</u>: Sandstone, white to tan, medium sorting, angular, trace aragonic & calcite

Geologic Name: Dakota Sandstone

Thickness: 230 feet

Depth to Top: 4170 feet

Depth to Bottom: 4400 feet

Underground drinking water source underlying Dakota Morrison Formation - top 4490

Drinking water sources overlying Dakota
Gallup S.S. - bottom 3650

Menefee - 1810

Cliff house - 1360

NOTICE

Dome Petroleum Corp. proposes to change zones in an injection well at Santa Fe Leggs Field to lower injection pressure. The well is located 990' FSL, 500' FWL. Section 10, Township 21N, Range 10W San Juan County, New Mexico. The change of zones will be from the Entrada Formation at a depth of 5516'-5595' to the Gallup Formation at a depth of 3000'-3400'.

Maximum injection rate will be 12,000 BBL of water/day with a maximum injection pressure of 1000 PSI.

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.

Legal No. 10855 published in the Farmington Daily Times, Farmington, New Mexico on Monday, February 1, 1982.

I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage (*) Application qualifies for administrative approval? Nyes Ina
II.	Operator: Dome Petroleum Corp.
	Address: 2900 Dome Tower, 1625 Broadway, Denver, Colorado 80202
	Contact party: Murray Choran Phone: (303) 620-3341
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? \overline{X} yes $\overline{\ \ \ \ }$ 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.
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.).
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.
х.	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.
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 correcto the best of my knowledge and belief.
•	Name: Murray Choran Title Sr. Reservoir Engineer
	Signature: Date:

SUD 213: November 7, 1978

111. WELL DATA

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

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

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

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Dil Conservation Division, P. D. 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.

Dome Pe	etroleum Corp.		Santa Fe Bar	bs		
WELL NO.	990 FSL an	10 550	FWL 10 SECTION	·	21N TOWNSHIP	10W RANGE
	•			···		
Sche	ematic			Tobula	r Data	
•			Surface Casing	•		000
	, ·		Size 9 5/8			
	•		TOC 197		determined by	circulation
			Hole size 13	1/4"		
	· •		Intermediate Casino	3		
			Size			
•			TOC	feet	determined by	
			Hole size			
		. • •	Long string			
	·		Size7	- 41	Cemented with	940sx
		•	тос5595	feet	determined by	circulation
			Hole size	8 3/4"		
	•		Total depth	5607		
-		•	Injection interval	•	•	
			3316 fee	t to	3334	feet
			(perforated or open	-hole, i	indicate which)	
•	•					
	·			-		
_					· · · .	· ·
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	•					·
Tubing size	3 1/2	lined	with Plastic	eterial)		set in a
7b=2	Baker FA	·	packe	r at	3266	feet.
	e any other casin	g-tubing	seal).			
Other Data					·	
1. Name of	the injection fo	rmation	Gallup			
2. Name of	Field or Pool (i	f applic	able) Leggs			
3. Is this	a new well drill	ed for i	njection? /7 Yes	<u>/</u> \ <u>\</u> \\	No ·	,
If no, f	for what purpose	was the	well originally dril	led?		·
	As an Entrada	a oil p	roducer		·	
4. Has the and give	e plugging detail	(sacks	d in any other zone(of cement or bridge	plug(s)	used)	orated interval
<u> </u>		ıı STli	1 be used as wat	er als	posal zone	· · · · · · · · · · · · · · · · · · ·
		me of an	y cverlying and/or u	nderlyin	g oil or gas zo	nes (pools) in
this are		ing Oi	l is Mesa Verde;	Under	lving oil ic	
			1 10 mesa verde,	onuer	TATHE OIT IS)
	Entrac	ıa				



Dome Petroleum Corp.

2900 DOME TOWER
1625 BROADWAY
DENVER, COLORADO 80202

Telephone (303) 620-3000

August 16, 1983

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SANTA FE BARBS M-10-21-10

Mr. Joe D. Ramey Secretary Director New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, NM 87501 REGEIVED AUG 1 8 1983

OIL CON. DIV.

Mr. Director:

Dome is here responding to the Energy and Minerals Department letter dated July 18, 1983, regarding surface pressure limitation in the Santa Fe Barbs #1 SWD well.

Dome had experienced a similar problem in its Snake Eyes Entrada Pool. A commission order permitting disposal of produced water into two zones was approved July 1983. Early indications are that this disposal method has allowed Dome to safely dispose of increased volumes of saltwater while increasing oil production to maximum efficient rates as well as reducing surface pressures much below earlier levels.

Dome is hopeful that a permanent solution to the SWD problem at Leggs Entrada Pool will be forthcoming since there is approximately 100 BOPD shut-in due to lack of SWD capacity.

It has been two weeks since the Snake Eyes Entrada SWD work was completed. We are continuing to monitor this work and will formalize a proposal to do likewise in the Santa Fe Barbs #1 well as soon as adequate injection history has been accumulated.

Dome wishes to follow the recommendation put forth in the July 18, 1983 letter until such permanent solution is found. Dome is here applying for administrative permission to dispose of

Page 2 New Mexico Oil Conservation Commission August 16, 1983

saltwater into the Entrada zone at 1300 psi in the Santa Fe Barbs #1 well as had occurred in the past.

If you have any questions, please call (303) 620-3160.

Sincerely,

DOME PETROLEUM CORP.

L. A. Jenkins

Sr. Reservoir Engineer

AU3 1 8 1983
OIL CON. DIV.
DIST. 3

LAJ/vp

cc: Charles Gholson, Aztec District Office H. D. Hollingsworth, Dome, Farmington Bob Kelley, Dome, Denver



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

TONEY ANAYA

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410 ISO5) 334-6178

July 18, 1983

Dome Petroleum Corp. 1625 Broadway Suite 2900 Denver, CO 80202

Re: Santa Fe Barbs #1 M-10-21N-10W

Gentlemen:

NMOCD monthly production report (form C-115) shows salt water is being disposed of into the referenced well at 1300 PSI. As you are aware the pressure limit is 1080 PSI. I am aware that your application to inject into the Gallup Formation was denied. It is my recommendation that you apply with the Division Director for a pressure limit increase to 1300 PSI.

If you have any questions, please call.

Yours truly,

Charles Gholson

Deputy Oil & Gas Inspector

CG/ca

cc: Dick Stamets

Prentiss Childs

Judith Montoya, Inj. Control Coordinator, Santa Fe

Reading file Well file

H. D. Hollingsworth, Dome Petroleum Corp., Farmington

OIL CONSERVATION COMMISSION Autor DISTRICT

OIL CONSERVATION COMMISSION	DATE	11-27-78
BOX 2088 SANTA FE, NEW MEXICO	RE:	Proposed MC
•		
Gentlemen:		
I have examined the application dated for the Dance Petroleum (Ry), Sauta Soperator Lease and Well	1/- le B	7-78 2015-4/ M-10-2/N-1 Unit, S-T-R
Operator / Lease and Well and my recommendations are as follows:	T NO.	onic, 5-1-k
approve/		
	Your	s very truly,
		201/201



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

TONEY ANAYA

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

July 18, 1983

Dome Petroleum Corp. 1625 Broadway Suite 2900 Denver, CO 80202

Re: Santa Fe Barbs #1 M-10-21N-10W

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Charles Gholson

Deputy Oil & Gas Inspector

CG/ca

cc: Dick Stamets

Prentiss Childs

Judith Montoya, Inj. Control Coordinator, Santa Fe

Reading file Well file

H. D. Hollingsworth, Dome Petroleum Corp., Farmington

OIL CONSERVATION COMMISSION DISTRICT

OIL CONSERVATION COMMISSION	DATE	//-	27-78
BOX 2088	•		
SANTA FE, NEW MEXICO	RE:	Proposed	MC
		Proposed	
		Proposed	
		Proposed	
		Proposed	WFX
		Proposed	PMX
		,	
Gentlemen:			
I have examined the application dated for the Dance Petraleum Cays, Santas	1/- De B	7-78	/ <u>M-10-2/N-</u> 10 nit, S-T-R
Operator / Lease and Wel	Ll No.	- U	nit, S-T-R
and my recommendations are as follows:			
approve			
	V	a wayn +=	1
	iour	s very tr	ury,

M Gufriele

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Dome Petroleum		DATE March 22, 19/8 LAB NO. 26805-1						
WELL NO Santa Fe Leggs No. 1 FIELD COUNTY			LOCATION					
			FORMATION					
			INTERVAL					
STATE New Mex	cico		SAMPLE FROM					
			hu Gama Iah Bamminuta	•				
REMARKS & CONCLUSIO	NS: Sample	Submitted	by Core Lab-Farmington	7.				
				 				
•		··· -						
				 				
	·							
Cations	mg/1 .	meq/1	Anions	mg/1	_ m∞ q/1			
Sodium	2843	123.65	Sulfate	4660	96.93			
Potassium	29	0.74	Chloride	700	19.74			
Lithium			Carbonate	24	0.80			
Calcium	66	3.29	Bicarbonate	683	11.20			
Magnesium	• • • • • • • • • • • • • • • • • • • •	0.99	Hydroxide					
Iron		. /	Hydrogen sulfide	present				
•		128.67		•	100 67			
Total Cations		120.07	Total Ani	ons	128.67			
		8670						
Total dissolved solids, mg/1		6203	Specific resistance @ 68°F.	: 0.96	_			
NaC1 equivalent, mg/1		8.3	Observed	1.05	ohm-meters			
Observed pH	• • • • •		Calculated	• •	ohm-meters			

WATER ANALYSIS PATTERN

Scale Sample above described MEQ per Unit CI C1 Na Na 50 HCO3 Ca HCO3 Ca SO₄ SO4 Mg Mg 5 CO3 COs Fe Fe 5

(Na value in above graphs includes Na, K, and LI)

NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

NO. dospe sective	:0 6						Form C-1 Revised	
El ducted UTION						٠٦٠		Type of Leane
SANTA FE			EXICO OIL CON				State	Fee X
FILE		ELL COMPLE	TION OR REC	DMPLETION	REPORT A	'ND FOC		& Gas Lease No.
U.S.G.S.	2					i '	7, 01410 O11	0 0d.1 E0dae 140.
LAND OFFICE							rrrrr	mmmm
OPERATOR						8		
				·			777777	
la. TYPE OF WELL						l I	7. Unit Agre	ement Name
	OIL Well	GAS WELL	DRY .	OTHER DIS	SPOSAL WE	LL		
b. TYPE OF COMPLE							9. Furm or L	.ease Name
WELL X OVE		PLUG	DIFF.	OTHER		s	ANTA FE	BARBS
2. Name of Operator					•	,	9. Well tio.	
DOME PETROLE	JM CORPORATI	ON				1	•	
3. Address of Operator							0. Field and	d Pool, or Wildcut
501 Airport I	Orive. Suite	107. Farmi	naton. New	Mex. 8740)1	l _W	ILDCAT-	ENTRADA
501 Airport I	orive, bure.	<u> </u>					TITT	THITTITITI
					•	- 8		
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THEWEST LINE OF	sec. 10 TW	. 21N ser	10W NMPM			///////s	AN JUAN	
15. Date Spudded		ached 17. Date C		~~~~~	vations (DF, I			
	10/22/78		26/79 Injec			•	1	6404'
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5608	559		Many		Drilled	By 0'-56	081	
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21, 1 10000119 1	,,, -: :	,	**				-	Made
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	ECTRIC LOG,					TENT BONE	100	110
28.			NG RECORD (Rep					
CASING SIZE	WEIGHT LB./	FT. DEPTH		ESIZE		ITING RECO	₹D	AMOUNT PULLED
9 5/8	32#	197		3/8	200_s			NONE
7"	20# & 23#	560	07 8 :	3/4"	940 s	sacks		NONE
								
29.	LI	NER RECORD			30.	TU	BING RECO	DRD
SIZE	ТОР	воттом	SACKS CEMENT	SCREEN	SIZE		THSET	PACKER SET
					3 1/2	2" 5	5449	5450
				. 	<u> </u>			
31. Perforation Record				32. AC	ID, SHOT, F	RACTURE, C	EMENT SQL	JEEZE, ETC.
5566-5595' w	· -	ts/ft. (.45)	•	DEPTH IN	TERVAL	AMOUN	T AND KIN	D MATERIAL USED
5544-5552' "		11		5566'-559	51	1000 gal	7>% HCl	. Fracked with
5516-5536' "	11 0	11				51,000# 1	0-20 sa	ind.
33.				UCTION				-
Date First Production	Produc	tion Method (Flow		ing - Size and t	ype pump)		Well Status	(Prod. or Shut-in)
		NO PRODUC	CTION		·		SHUT	IN
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water	— Вы.	Gas-Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-	OII = Bbl	Gas - MCI	<u> </u>	ter – Bbl.		Gravity - All (Corr.)
riow lubing Pless.	Cdaing Pressure	Hour Rate		Gds = kici	""	iter = Bbi.		Citavity = At 1 (Corr.)
34. Disposition of Gas	Sold need to be	I wanted sea 1	<u> </u>			17-4	Witnessed By	<u>`</u>
44. Disposition of Ods (oom, usea jor jue.	, vemea, v(c./				'est	imensed D	7
25 14-4 -4 844						<u> </u>		
35. List of Attachments						1		<i>,</i>
5. 15 at a 2. 2 at a	Ab		6.11: 6			<u>\</u>	·	
36. I hereby certify that	the information si	nown on both sides	of this form is tru	e and complete i	to the best of	my knowledge	and belief.	
_		_					*****	
SIGNED 2007	all marine	c.Tt.	TITLE	DRIL	LING FOR	EMAN	DATEP	August 11, 1979
		*	-,					

is to be filled with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or well. It shall be accompanied by one copy of all electrical and redio-activity logs run on the well and a summary of all special tests connected drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled Wells, true vertical depths shall be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on land, where six copies are required. See Rule 1105.

		Southe	astern	New Mexico				Northwe	stem No	w Mexico ,	
T. Anhy			т.	Canyon	т.	Ojo A	amo		Т.	Penn. "B"	
				Strawn							
				Atoka							
				Miss							
				Devonian					Т.	Madison	
				Silurian				2202	т.	Elbert	
				Montoya				2294	Т.	McCracken	
T. San A	ndres _		т.	Simpson	<u> </u>	Gallu		3000	Т.	Ignacio Qtzte	
				McKee				4143	T.	Granite	
T. Paddo	ock		т.	Ellenburger	т.	Daķot	a	4322	Т.		
T. Blinet	bry		т.	Gr. Wash	т.	Morris	on	<u>4506</u>	<u>·</u> т.		
T. Tubb.			т.	Granite	Т.	Todilt	o <u>—-—</u>	2410	T.		
r. Drink:	ard		Т.	Delaware Sand	т.	Entrac	a	5424	<u>~</u> T.		
				Bone Springs					Ť.		
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		·			GAS S						
o. 1, from	a	*****************************		.to	No	o. 4, fro	m	*************		to	<i></i>
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	IMP. OF COPIES RECEIVED	/ /		•
	DISTRIBUTION	NEW MEXICO OF	CONCERNATION	
	SANTA FE		CONSERVATION COMMISSION	Form C-104
	FILE	- KEQUESI	FOR ALLOWABLE	Supersedes Old C-104 and C-1. Effective 1-1-65
	U.S.G.S.	┤	AND	Succise 1-1-92
		_ AUTHORIZATION TO TR	ANSPORT OIL AND NATURAL	GÀS .
	LAND OFFICE	4	110	
	TRANSPORTER GAS	-	4//	
	OPERATOR	-		N & A Pa
1	PRORATION OFFICE	-	O,, '	
•	Operator TTT TTT			OA TIGER
	TEXACO Inc.,			ON, 384 [[]
	P. O. Box 210	O, Denver, Colorado	80 2 01	Sr . D/1
	Reason .) for filing (Check proper bos	:)	Other (Please explain)	3 1
	New W.	Change in Transporter of:	The state of the s	
	Recompletion	OII Dry G	as T	
	Change In OPERATOR	Casinghead Gas Conde	nsate	
	If change of ownership give name and address of previous owner	ome Petroleum Corp.	, 1625 Broadway, Den	ver, Colorado
			C	
II.	DESCRIPTION OF WELL AND		S(U/) Formation Kind of Lease	
	Lease Name	Well No. Pool Name, Including F	<i>C</i> .	20030 110
	SANTA FE BARBS	LEGGS-ENT	RADA Ext. State, Federa	or Fee FEE
	Location		_	
	Unit Letter;99	Feet From The SOUTH Lis	ne and 500 Feet From	TheWEST
	10 7	7/4/	1911	1 1 1 1 1 1
	Line of Section /O To	waship Z/N Range	10W , NMPM, SAN	U CUAN County
***	DECICE ATION OF TRANSPOR	TER OF OUT AND NATURAL CO	4.6	
111.	Name of Authorized Transporter of Ot.	TER OF OIL AND NATURAL GA	Address (Give address to which approx	ved copy of this form is to be sent!
				,, ,,,
	Name of Authorized Transporter of Ca	singhead Gas [or Dry Gas]	Address (Give address to which appro-	ved copy of this form is to be sent)
		Unit Sec. Twp. P.ge.	Is gas actually connected? Whe	en
	If well produces oil or liquids, give location of tanks.			
		. l — 	1	
		th that from any other lease or pool,	give commingling order number:	
IV.	COMPLETION DATA	Cil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'v.
	Designate Type of Completie		indicate: Deepen	July Edek Same Hes C. Bill. Hes C.
	Date Spudged	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
	Date Spudges	Date Compi. Ready to Flou.	Total Depth	P.B. 1.D.
	Lievations (DF, Rhb, RT, CK, etc.	Name of Producing Formation	Top Otl/Gas Pay	Tubing Depth
	i	The state of the s	7.65 5.17 545 7.47	Tabing Bepin
	Perforations		1	Depth Casing Shoe
		TURING CASING AND	D CEHENTING BECORD	
	1101 E 517 E	· · · · · · · · · · · · · · · · · · ·	D CEMENTING RECORD	SACKE CENEUT
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
		1		
		1		<u> </u>
				<u> </u>
V.	TEST DATA AND REQUEST F	OR ALLOWABLE (Test must be a able for this de	fier recovery of total volume of load oil tepth or be for full 24 hours)	and must be equal to or exceed top allow-
	OIL WELL Date First New Oil Bun To Tanks	Date of Test	Producing Method (Flow, pump, gas lif	(i, etc.)
			B Paper	
	Length of Test	Tubing Pressure	Coning Program in U	Choke Size
				
	Actual Prod. During Test	Oil-Bhis.	Water-Bols. MAY O Das	Gas-MCF
	Acida , rear Balant 1 ac		Water-Bols. MAY 0 71984	
		1	OIL CON. L.	3 6
	CAC BUTTY		on Con. Di	`V.
	GAS WELL	Length of Test	I Bhis. Condensate/MACEST. 9	Gravity of Condensate
	00 00. F105 109(* YUT)	Lead to the	Bala. Condenade/ MMCF	Gravity of Condensation
	Testing Method (pitot, back pr.)	Tuning Pressure (Shnt-in)	Casing Pressure (Shut-in)	Choie Size
			1	
	CERTIFICATE OF COMPLIAN	CE.	I OU CONSERVA	TION COMMISSION
¥1.	CERTIFICATE OF COMPLIAN	LE	OIL CONSERVA	7 1000
			APPROVED WIAT	1 190/1
		eguistions of the Oil Conservation at the information given	Drank)	· Nava
	Commission have been complied washing is true and complete to the		BY	DD District O
	-	tor for Texaco Oils	Inc.	OR DISTRICT 🐓 🤋
			TITLE	
	() 0 0		This form is to be filed in c	compliance with RULE 1104.
	Al- R. mark		If this is a request for allow	able for a newly drilled or deepened
	/Signs	sture)	melt this form must be accompan	nied by a tabulation of the deviation
	Field Surt.		tests taken on the well in accord	
	(7)	ie	All sections of this form must able on new and recompleted we	at be filled out completely for allow-
	3-9-84		Eit out only Sections ! II	III and VI for changes of owner.
	(Da	10)	well name or number, or transporte	er, or other such change of condition.
			H	be filed for each pool in multiply



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

TONEY ANAYA GOVERNOR

September 30, 1985

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

Texaco, Inc. Box EE Cortez, CO 81321

Santa Fe Barbs #1, M-10-21N-10W

Gentlemen:

NMOCD field inspection shows that salt water is being disposed of into the referenced well at 1350 psi. According to NMOCD Administrative Order No. SWD-213, the injection pressure is not to exceed 1080 psi. In order to inject at the present pressure of 1350 psi, you must apply with the Division Director for a pressure limit increase. A step rate test, witnessed by a NMOCD Representative, is required for the application. In July, 1983, Charles Gholson of NMOCD notified Dome Petroleum Corp. of injection pressures on the referenced well exceeding the pressure limit. A copy of this letter is enclosed for your referenced. You must apply for a pressure limit increase within 30 days or decrease the injection pressure to 1080 psi.

Field inspection of the flowline from the injection plant to the referenced well showed evidence of two leaks, which have been repaired. According to NMOCD Rule No. 116.2, a leak of 100 barrels or more of salt water is classified as "major leak". This requires that the NMOCD receive immediate notification in person or by telephone and subsequent notification within ten days. Rule No. 116.3 classifies a leak of 25 barrels or more but less than 100 barrels of salt water as a "minor leak" and requires subsequent notification to NMOCD within ten days. Enclosed are some forms for notification of leaks for your convenience.

If you have any questions, please contact this office.

Your truly,

Carolyn A. Caple Carolyn J. Taplin

Field Representative

CJT/dj Enclosure

xc: Prentiss Childs

UIC File Well File STATE OF INEVVIVIENTO



GOVERNOR

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE **TONEY ANAYA**

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

July 18, 1983

Dome Petroleum Corp. 1625 Broadway Suite 2900 Denver, CO 80202

Re: Santa Fe Barbs #1 M-10-21N-10W

Gentlemen:

NMOCD monthly production report (form C-115) shows salt water is being disposed of into the referenced well at 1300 PSI. As you are aware the pressure limit is 1080 PSI. I am aware that your application to inject into the Gallup Formation was denied. It is my recommendation that you apply with the Division Director for a pressure limit increase to 1300 PSI.

If you have any questions, please call.

Yours truly,

Charles Gholson

Deputy Oil & Gas Inspector

CG/ca

cc: Dick Stamets

Prentiss Childs

Judith Montoya, Inj. Control Coordinator, Santa Fe

Reading file

Well file

H. D. Hollingsworth, Dome Petroleum Corp., Farmington

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SANTA FE		1	
FILE			
U.S.G.5.		1	
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IRANSPORTER	OIL		
GAS			
OPERATOR		1	

	SANTA FE FILE U.S.G.S. LAND OFFICE IRANSPORTER GAS OPERATOR PRORATION OFFICE	REQUEST	CONSERVATION COMMISSION FOR ALLOWABLE AND ANSPORT OIL AND NATURAL G	Form C-104 Supersedes Old C-104 and C-116 Elfective 1-1-65 AS	
•	TEXACO INC.				
	Address	D	· · · · · · · · · · · · · · · · · · ·		
	Reason(s) for filing (Check proper box	Denver, CO. 80201	Other (Please explain)		
	New Well	Change in Transporter of:	This reports c	hange of ownership	
	Recompletion Change in Ownership X	Oil Dry Go		TO TEXACO	
	If above of assessbir size some		. O. Box 2100, Denver	, CO. 80201	
Ц.	DESCRIPTION OF WELL AND	LEASE			
	Lease Name	Well No. Pool Name, Including F	•	Lease No.	
	Santa Fe Barbs	l Leggs-Entra	ada State, Federal	or Fee Fee	
	Unit Letter M : 991	O Feet From The South Lin	ne and 500 Feet From Ti	• West	
	Line of Section 10 Tox	enship 21N Range 1	.0W , _{NMPM} , San J	uan County	
Ш.	DESIGNATION OF TRANSPORT	TER OF OIL AND NATURAL GA	AS		
	Name of Authorized Transporter of Oil		Address (Give address to which approve	ed copy of this form is to be sent)	
	Name of Authorized Transporter of Cas	singhead Gas at Dry Gas	Address (Give address to which approve	d copy of this form is to be sent)	
	If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. P.ge.	is gas actually connected? When		
	If this production is commingled with	th that from any other lease or pool,	give commingling order number:		
IV.	COMPLETION DATA	Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Diff. Res'v.	
	Designate Type of Completion	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.	
	Date Spudded	Date Compt. Reday to Prod.	Total Depth	P.B.1.D.	
	Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oll/Gas Pay	Tubing Depth	
	Perforations			Depth Casing Shoe	
			CEMENTING RECORD		
	HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT	
	· · · · · · · · · · · · · · · · · · ·				
			<u> </u>		
V.	TEST DATA AND REQUEST FO		fter recovery of total volume of load old an opth or be for full 24 hours) Producing Method (Flow, pump, gas lift,		
	Length of Test	Tubing Pressure	Casing Pressure	Choke Size	
	Actual Prod. During Test	Oil-Bble.	Water-Bbls.	Gas-MCF	
•	GAS WELL			Carlo and the Carlo	
	Actual Prod. Test-MCF/D	Length of Test	Bbis. Condensate/MMCF	Gravity of Condensate	
	Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size	
VI.	CERTIFICATE OF COMPLIANC	CE C		TION COMMISSION	
	I hereby certify that the rules and re Commission have been complied w	egulations of the Oil Conservation	APPROVED	UN 26 1987.	
	above is true and complete to the	best of my knowledge and belief.	BY) Ohn	
	TEXACO INC. As OF		TITLE SUDERVI	SION DISTRICT # 3	
	TEXACO PRODUCING SIGNED: A. A. KL.	:દિલેં '	This form is to be filed in compliance with RULE 1104.		
-	(Signa	ture)	well this form must be accompani	ble for a newly drilled or despened ed by a tabulation of the deviation	
	AREA SUPERINTENDE	·	tests taken on the well in accords	ince with RULE 111.	
-	(Tul		spie on new and secompleted well		
-	6/19/87 (Dat	e)	Fill out only Sections I, II. well name or number, or transporter	III, and VI for changes of owner, or other such change of condition.	

Separate Forms C-104 must be filtrator each pool in multiply completed wells.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

July 18, 1990

POST CFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

JUL2 3 1990

OIL CON. DIV.

A.P.A. Development Inc. P. O. Box 215 Cortez, Co. 81321

Attention: Patrick B. Woosley

Re: \$7,500 Single Well Cash Bond

A.P.A. Development Inc., Principal 990' FSL and 500' FWL of Sec. 10, T-21-N, R-10-W, San Juan County

Bond No. OCD-238

Dear Mr. Woosley:

The Oil Conservation Division hereby approves the abovereferenced single well plugging bond effective this date.

Sincerely,

WILLIAM J. LEMAN

Director

dr/

cc: Oil Conservation Division Aztec, New Mexico

ENERGY AND MINERALS DEPARTMEN	JT		
	OIL CONSERVA	TION DIVISION	
DISTRIBUTION	P. O. BO		form C-103
SANTA FE	SANTA FE, NEW	/ MEXICO 87501	Revised 10-1-
FILE	,		5a. Indicate Type of Lease
U.S.G.S.			State Fee X
LAND OFFICE		•	5. State Oil 6 Gas Lease No.
OPERATOR			3, 31018 OH & Oct Lease No.
SUNDRY	NOTICES AND REPORTS ON	WELLS	
OIL AAB WELL	отнем. Water Disposal		7, Unit Agreement Name
, Name of Operator			8. Form or Lease Name
A.P.A. Development Inc.	·	· · · · · · · · · · · · · · · · · · ·	Santa Fe Barbs
, Address of Operator			9. Well No.
P.O. Box 215, Cortez, C	0 81321		#1
. Location of Well			10. Field and Pool, or Wildcat
UNIT LETTER	South	LINE AND 500 PEET PRO	Entrada Legge
THE WEST LINE, SECTION	, 10 TOWNSHIP 21N	RANGE 10W NMPM	
	15. Elevation (Show whether 6404 'GR	DF, RT, GR, etc.)	12. County San Juan
6. Check A NOTICE OF IN	~ ~ ~	lature of Notice, Report or Ot subsequen	her Data T REPORT OF:
PERFORM REMEDIAL WORK FEMPORARILY ABANDON PULL OR ALTER CASING	PLUE AND ABANDON	REMEDIAL WORK COMMENCE DRILLING OPHS. CASING TEST AND CEMENT JQB	ALTERING CASING PLUG AND ABANDONMENT
OTHER Change of Owner ar	d Operator	OTHER	
 Describe Proposed or Completed Oper work) SEE RULE 1103. 	rations (Clearly state all pertinent desc	zils, and give pertinent dates, including	estimated date of starting any propose
		exaco Inc, to A.P.A. Deve t Inc, as the duly author	
		REG	IVEF

SEPI 0 1990 OIL CON. DIV

	OIL CON. DIV DIST. 3			
y certify that the information above is true and co	mplete to the best of my knowledge and belief. TITLE President, A.P.A. Development 9/1/90			
, Original Signed by FRANK T. CHAVEZ	SEP 12 199			

STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICÓ 87410 (505) 334-6178

December 26, 1990

Mr. Patrick B. Woosley APA Development Co. P.O. Box 215 Cortez, CO 81321



RE: Santa Fe Barbs #1

Dear Mr. Woosley:

Our records indicate your company has been disposing of produced water from the Santa Fe Leggs #2 into the referenced well without a permit. OCD Rule #705.B states that whenever there is a continuous six month period of non-injection, the well will be considered abandoned and authority to inject shall be terminated. It is my understanding that you had applied to resume injection into the well. The request was subsequently returned to you unapproved because you had not acquired a plugging bond. Realizing that some confusion may have resulted, I will recommend that you not be penalized for this infraction. You are however directed to cease injection immediately. Failure to comply will result in fines of up to one thousand dollars per day per violation. You are also required to conduct a Mechanical Integrity Test before resuming operations.

When your request to resume injection is received it will be reviewed and if approved, a date can be set to conduct the test. This test must be witnessed by OCD personnel.

If you have any questions, you may contact me or Denny Foust at 505-334-6178.

Yours truly,

Charles Gholson

Deputy Oil & Gas Inspector

NMOCD District III

CG:sh

xc: Dave Catanach

Bob Stovall Well File

STATE OF NEW MEXICO

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 (505) 827-5800

MAR2 6 1991.

OIL CON. DIV.

March 19, 1991

A.P.A. Development Inc. Box 215 Cortez, Colorado 81321

Attention: Patrick Woosley

Re: Reactivation of Division Order No. SWD-213

Dear Mr. Woosley:

Reference is made to your request dated April 3, 1990, to utilize the Santa Fe-Barbs Well No. 1 located 990 feet from the South line and 500 feet from the West line (Unit M) of Section 10, Township 21 North, Range 10 West, NMPM, San Juan County, New Mexico, as a salt water disposal well with injection into the Entrada formation, Leggs Entrada Pool, through perforations from approximately 5516 feet to 5595 feet.

It is our understanding that the subject well was previously authorized for use as a salt water disposal well by Division Order No. SWD-213 dated December 8, 1978, and that you simply wish to reactivate the permit at this time.

It appears that the application has been duly filed, all offset operators and surface owner have been notified, no objections have been recieved, and all requirements prescribed in Rule 701 will be met. You are therefore authorized to utilize the Santa Fe-Barbs Well No. 1 as described above as a salt water disposal well subject to the following conditions:

- 1) Injection shall be into the Entrada formation through perforations from 5516 feet to 5595 feet;
- 2) 3 1/2 inch plastic lined tubing shall be utilized for injection and shall be set in a packer located at 5450 feet;
- 3) The injection well shall be equipped with a pressure limiting device which will limit the

wellhead injection pressure to no more than 1103 psi;

- Prior to commencing disposal operations, the subject well shall be pressure tested, said test to be witnessed by a representative of the Division; 4)
- All other provisions contained within Division Order No. SWD-213 shall remain in full force and 5) effect.

Sincerely,

William J. LeMay Director

xc: OCD-Aztec

File-SWD-213

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 Fex (805)234-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

June 25, 1997

Ms Trish Woosley
A PA Development Corp
PO Box 215
Cortez CO 81321

Re: A P A Development Corp., Santa Fe Barbs #1, M-10-21N-10W, 30-045-23227

Dear Ms. Woosley:

On 6-10-1997, an inspection of the above-mentioned injection well revealed that it's injection facility is still in the same state of disrepair and incapable of injection since the last inspection conducted on June 6,1996.

It was determined by our office and our District Supervisor, Mr. Frank Chavez, that the referenced well has come under the directive of NMOCD rule #705-C. This rule stipulates that any injection project, storage, SWD well or injection well, which has had a continuous six month period of non injection, will be considered abandoned and the authority for injection will automatically end.

Ms. Woosley, if you intend to use the above referenced well in the future for injection, it will have to be repermitted for injection before it can be utilized.

Please feel free to contact me at (505)334-6178 if you have any questions.

Sincerely,

Ernest Cardona

Deputy O&G Inspector

EC/sh

XC: Well file

U.I.C file

E.C file