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### **NEW MEXICO OIL CONSERVATION DIVISION**

- Engineering Bureau -

[A] Working, Royalty or Overriding Royalty Interest Owners  [B] Offset Operators, Leaseholders or Surface Owner  [C] Application is One Which Requires Published Legal Notice  [D] Notification and/or Concurrent Approval by BLM or SLO  U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  [E] For aii of the above, Proof of Notification or Publication is Attached, and/or,  [F] Waivers are Attached  [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding  I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action raken.  JAMES BRUCE P.O. BOX 1056  SANTA FE, NM 87504			ADMI	NISTRAT	IVE APP	LICATI	ON COV	ERSI	HEET	
[NBF-Non-Standard Provision Unit] [NBL-Non-Standard Location] [DO-Directional Drilling] [SD-Elmatharous Dedications] [PC-Pool Commingling] [CTB-Lease Commingling] [PL-Pool Commingling] [CTB-Commingling] [CTB-Co		THIS COV	ersheet is mand	ATORY FOR ALL A	DMINISTRATIVE AP	PLICATIONS FO	R EXCEPTIONS TO	DIVISION	RULES AND REGULAT	IONS
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[B] Commingling - Storage - Measurement  DHC DCTB PLC PC OLS OLM  [C] Injection - Disposal - Prasstre Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR  NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply  [A] Working, Royalty or Overriding Royalty Interest Owners  [B] Offset Operators, Leaseholders or Surface Owner  [C] Application is One Which Requires Published Legal Notice  [D] Notification and/or Concurrent Approval by BLM or SLO  U.S. Bureau of Lend Management - Commissioner of Public Lends, State Land Office  [E] For all of the above, Proof of Notification or Publication is Attached, and/or,  [F] Waivers are Attached  [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding  I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action raken.  JAMES BRUCE  P.O. BOX 1056  SANTA FE, NM 87504  MMM Statement mugalize completed by an individual with supervisory sepacity.  Salament mugalize completed by an individual with supervisory sepacity.  SANTA FE, NM 87504	[1] <b>TYF</b>		Location -	- Spacing U	nit - Directio	onal Drilli		King.	SEP 27 65	
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## JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

3304 CAMINO LISA SANTA FE, NEW MEXICO 87501

(505) 982-2043 (505) 982-2151 (FAX)

September 22, 1999

### Hand Delivered

David Catanach Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Dear Mr. Catanach:

Enclosed is an application for administrative approval of a salt water disposal well, filed on behalf of Santa Fe Snyder Corporation. Also enclosed are a copy of the notice letter to the offset operators and surface owner, and a copy of the notice sent to the Carlsbad newspaper for publication.

Very truly yours,

Tames Bruce

Attorney for Santa Fe Snyder Corporation

### Application for Authorization to Inject New Mexico Oil Conservation Division Energy and Minerals Department Form C-108

V∕ I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage						
	Application Qualifies for Administrative Approval?						
√II.	Operator : Santa Fe Snyder Corporation						
	Address: 550 W. Texas, Suite 1330, Midland, Texas 79701						
	Contact Party : Don Rogers - Project Engineer Phone : 915-686-6709						
√ III.	The Jones Canyon "4" Fed #6-WD is to be drilled 2,600' FNL & 2,300' FEL, Section 4, T22S-R24E, Eddy Co., N.M. This well is proposed as an 12,000' Devonian-Montoya salt water disposal well. Produced water for disposal will come from the Cisco-Canyon formation at approximately 7,800'-8,400'.						
GBE VIV.	Attached are well data sheets detailing the proposed design and specifications for the casing, tubing, and injection packer on the subject well.						
$\mathbf{O}_{\nu}$ IV.	Is this an expansion of an existing project?						
	If yes, give the Division Order number authorizing the project. N/A						
	Attached is a map identifying the proposed well's area of review. This map identifies all wells and leavithin two miles of the proposed disposal well and a one-half mile radius circle has been drawn around proposed disposal well.						
NI VI.	There is one well within the area of review, the Old Ranch Knoll "8" Fed Com #4 (Sec 8-T22S-R24E), which penetrated the proposed Devonian-Montoya injection zone. It is currently being used for disposal.						
<sup>∤</sup> VII.	1. The average and maximum injection rates are expected to be $\pm$ 25,000 BWPD and $\pm$ 35,000 BWPI respectively, of formation water from the Cisco-Canyon formation.						
	2. The system will be closed. Water will be transported via pipeline from production facilities in Section 4–T22S–R24E and Section 34-T21S-R24E.						
2200/ A	3. The average and maximum injection pressures are expected to be 1000 psi and 2000 psi, respectively.						
; ,	4. No water samples are available from the Devonian-Montoya disposal zone for compatibility tests. The Devonian formation, however, is widely used in the area for the disposal of Cisco-Canyon produced water. Cisco-Canyon water analyses are attached.						
	5. No known samples of Devonian-Montoya produced water exist from the immediate area.						
₽ VIII.	The proposed injection zone for the Cisco-Canyon produced water is the Devonian-Montoya from 11,000'-12,000'. Lithologically, these two zones are similar, consisting of dolomite and cherty dolomites characterized by intercrystalline to vuggy porosity. The proposed injection zone will be selected porous intervals across a 1,000 foot thick Devonian-Montoya section. In October, 1994, Santa Fe Snyder drilled a fresh water supply well in the NE/SW of Section 8. The well was drilled to a depth of 190 feet, but did not encounter any water bearing formations and was plugged and abandoned. There are no known sources						

of drinking water in the immediate area.

# Santa Fe Snyder Corporation Jones Canyon "4" Fed #6-WD Form C-108 - Application for Authorization to Inject, cont.

- The Devonian-Montoya open hole section between 11,000' and 12,000' will be acidized with 20% HCl to optimize injectivity, if necessary.
  - X. We plan to run porosity and resistivity logs across the entire open hole interval in the Devonian-Montoya formation.
  - XI. There are no known fresh water wells within one mile of the proposed well.
  - XII. Santa Fe Snyder Corp. has examined available geologic and engineering data and has concluded that there is no known underground source of drinking water with open faults or other hydrologic connection which could communicate with the disposed water.
- XIII. Proof of Notice

Surface owner of proposed well:

Department of the Interior Bureau of Land Management

P. O. Box 27115

Santa Fe, New Mexico 87502-7115

Leasehold owners or operators on adjacent property within one-half mile of the proposed disposal well location:

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Marathon Oil Corporation P. O. Box 552

Midland, Texas 79702-0552

Attached is an Affidavit of Publication to verify that a legal advertisement was published on September xx<sup>th</sup> and xx<sup>th</sup>, 1999, per the requirements of this application. Verification of certified letter delivery to the parties listed above are also included.

### 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 :	Don Rogers	Title :	Project Engineer		
Signature :	00	Date :	8 27 99		
	$\mathcal{O}$		·		

XC: NMOCD - Santa Fe NMOCD - Artesia BLM - Carlsbad Yates Petroleum – Artesia Marathon Oil Co. - Midland James Bruce - Santa Fe Santa Fe Snyder Corporation
Jones Canyon "4" Fed #6-WD
Form C-108 - Application for Authorization to Inject, cont.
Well Data for NMOCD Form C-108

III. A. (1) Name and Location

Federal Lse: NM-83037

Well Name: Jones Canyon "4" Fed #6-WD

Location: Section 4-T22S-R24E (2,600' FNL & 2,300' FEL) (unit of

III. A. (2) Casing and Cement

Surface Csg: Drill 26" hole to approximately 600'. Run 20" 94# X-56 Buttress csg. Cmt w/100

sx Thix, 600 sx 65:35:6 & 300 sx "C" + 2% CaCl

Intermediate Csg: Drill 171/2" hole to approximately 1,600'. Run 13-3/8" 54.5# K-55 ST&C csg. Cmt

with 655 sx "C" 35:65:6 Poz + 2% CaCl + 0.25 pps celloflake, yld 1.9 ft<sup>3</sup>/sk @

12.75 ppg and 335 sx "C" + 2% CaCl2, yld 1.34 ft<sup>3</sup>/sk @ 14.8 ppg

Injection Csg: Drill 121/4" hole to approximately 11,000'. Run 9-5/8" L-80 43.5# LT&C. DV Tool

@  $\pm$  7,000'. Cmt 1st stage with 1,060 sx "H" 50:50:2 Poz, 0.4% D60, 0.2% D65, yld 1.32 ft³/sk @ 14.2 ppg. Cmt 2nd stage w/1,165 sx "H" 35:65:6 Poz + 0.25 pps cellofalke, yld 2.04 ft³/sk @ 11.44 ppg and 205 sx H-Neat, yld 1.18 ft³/sk @ 15.6

ppg.

Open Hole: Drill 8¾" hole to  $\pm$  12,000' as open hole section.

III. A. (3) / Injection Tubing: 7" 23.0# L-80 MMS tubing, internally plastic coated.

III. A. (4) Injection Packer: 9-5/8" X 41/2" Guiberson Uni-Packer VI (or equivalent) with on/off tool, set @ ±

10,600'

III. B. (1) V Inject. Formation: Devonian-Montoya

III. B. (2) / Injection Interval: Selected porous intervals within open-hole section of the Devonian-Montoya

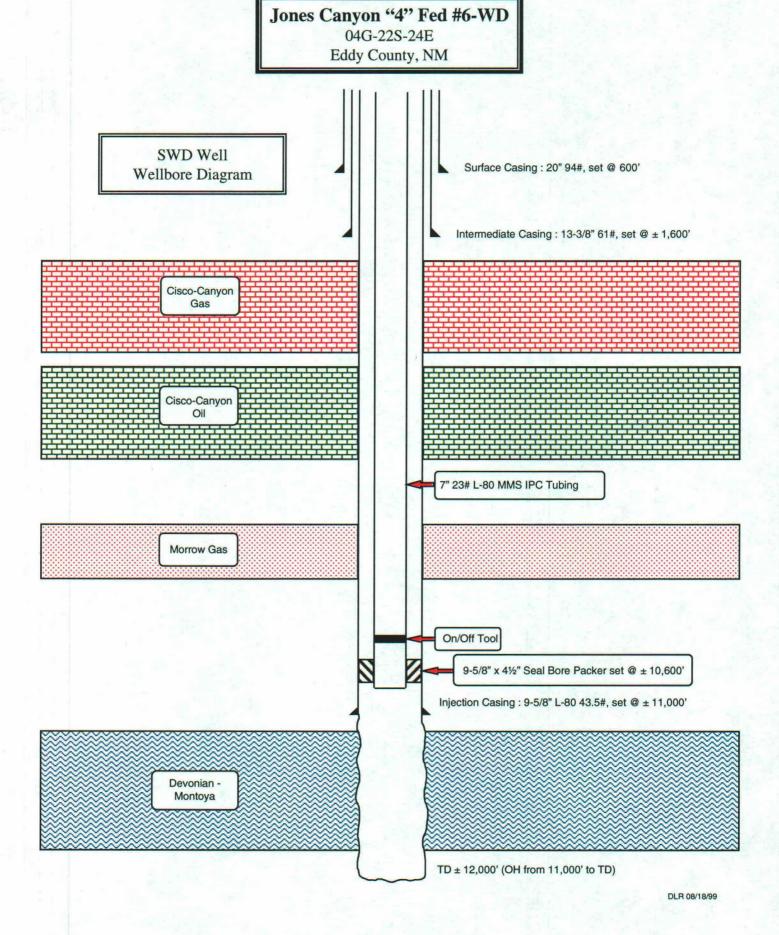
formation from 11,000'-12,000'.

III. B. (3) / The referenced well is to be used strictly for the purpose of water disposal.

III. B. (4) We do not plan to test any other intervals in this wellbore.

III. B. (5) Morrow Sands have produced in the area between 9,700'-10,000'. No formations

below the Devonian-Montoya are productive in the area.



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Santa Fe Energy Resources, Inc. Central Division Midland, Texas

**EDDY COUNTY, NEW MEXICO** 

JONES CANYON "4" FED #6 AREA OF REVIEW 2600' FNL & 2300' FEL SEC. 8, T22S, R24E

DATE: 8/20/99

FILE:

SCALE: 1":4000'

## JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

3304 CAMINO LISA SANTA FE, NEW MEXICO 87501

(505) 982-2043 (505) 982-2151 (FAX)

September 22, 1999

## CERTIFIED MAIL RETURN RECEIPT REQUESTED

Bureau of Land Management P.O. Box 1778 Carlsbad, New Mexico 88221

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

Marathon Oil Company P.O. Box 552 Midland, Texas 79702

Ladies and Gentlemen:

Enclosed is a copy of an administrative application for a salt water disposal well, filed with the New Mexico Oil Conservation Division by Santa Fe Snyder Corporation, regarding a well in the SWMNE% of Section 4, Township 22 South, Range 24 East, NMPM, Eddy County, New Mexico. If you object to the application, you must notify the Division in writing no later than Thursday, October 7, 1999. The Division's address is 2040 South Pacheco Street, Santa Fe, New Mexico 87505 (attention: David Catanach). Failure to object will preclude you from contesting this matter at a later date.

Very truly yours,

James Bruce

Attorney for Santa Fe Snyder Corporation

## JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

3304 CAMINO LISA SANTA FE, NEW MEXICO 87501

(505) 982-2043 (505) 982-2151 (FAX)

Carlsbad Current-Argus 620 South Main Street Carlsbad, New Mexico 88220

Ladies and Gentlemen:

Enclosed is a notice to be published once a week for two weeks. Please call me with the publication cost, and I will forward a check to you. Mail the proof of publication to me at the above post office box. Thank you.

Wery truly yours,

Tames Bruce

Attorney for Santa Fe Snyder Corporation

Santa Fe Snyder Corporation has made application to drill the Jones Canyon "4" Fed #6-WD to a depth of 12,000' for the sole purpose of disposing of formation water into the Devonian & Montoya formations at selected intervals from 11,000' to 12,000'. The proposed well location is 2,600' FNL & 2,300' FEL of Section 4, T22S, R24E, Eddy County, New Mexico. SFER plans to dispose of approximately 30,000 barrels of water per day at an estimated surface pressure of 1,000 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 of the publication of this notice.

Applicant:

Santa Fe Snyder Corporation

550 W. Texas, Suite 1330 Midland, Texas 79701 Phone: (915) 687-3551

Attn: Don Rogers