	<u> </u>	PTGU
DATE IN	12, 1, 11 susper	NSE ENGINEER WILT LOGGED IN 2/1/1 TYPE SWB APP NO. 11 33549488
		ABOVE THIS LINE FOR DIVISION USE ONLY
		NEW MEXICO OIL CONSERVATION DIVISION
		- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
		1220 South St. Francis Drive, Santa Fe, NM 67505
		ADMINISTRATIVE APPLICATION CHECKLIST 30-005-01210
. T	HIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Appli	cation Acronym	·
		ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
,	- [PC-Po	ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
		[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
	[EOR-Qua	lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]		PPLICATION - Check Those Which Apply for [A]
	[A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP NSL SD Cone Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
		ind ind ind ind indicated and in the second se
	Check [B]	Cone Only for [B] or [C]
	[2]	\square DHC \square CTB \square PLC \square PC \square OLS \square OLM $////$
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[0]	□ WFX □ PMX ■ SWD □ IPI □ EOR □ PPR
	[D]	Other: Specify Amend Order No. SWD-1158-A
[2]	NOTIFICAT	ION 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 Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Dani	d alamad
Signature	

Agent-Crain's Hot Oil Service, Inc. Title

drcatanach@netscape.com E-Mail Address

Date

David Catanach Print or Type Name

12/1/11

Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG Division Director

HAND DELIVERED

Re: Form C-108

Crain's Hot Oil Service, Inc. Gulf Deep Well No. 1 **API No. 30-005-01210** 660' FNL & 1980' FWL (Unit C) Section 34, T-14 South, R-31 East, NMPM, Chaves County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) to amend Division Order No. SWD-1158, as amended. 'This order authorized Penroc Oil Corporation to utilize the Gulf Deep Well No. 1 as a produced water disposal well, injection to occur into the San Andres formation through the open-hole interval from 3,817 feet to 4,750 feet. Crain's Hot Oil Service, Inc., the current operator of the well, now proposes to abandon the San Andres as an injection zone, drill out cement plugs down to total depth of 13,230 feet, and utilize the Devonian formation as a the new injection interval from a depth of approximately 12,920 feet to 13,230 feet.

All the required information is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,

auid atand

David Catanach Agent for Crain's Hot Oil Service, Inc. P.O. Box 613 Lovington, New Mexico 88260

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
П.	OPERATOR: Crain's Hot Oil Service, Inc.
	ADDRESS: P.O. Box 613 Lovington, New Mexico 88260
*	CONTACT PARTY: Mr. David Catanach PHONE: (505) 690-9453
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? <u>Yes</u> X <u>No</u> [*] If yes, give the Division order number authorizing the project: <u>*Application to Amend Order No. SWD-1158-A</u>
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:
*VIII.	 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.). Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of 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 sources 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: TITLE: Agent for Crain's Hot Oil Service, Inc
	SIGNATURE:DATE:AATE:AATE:AATE:AATE:
*	E-MAIL ADDRESS: drcatanach@netscape.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

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

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

C-108 Application Crain's Hot Oil Service, Inc. Gulf Deep Well No. 1 660' FNL & 1980' FWL, Unit C, Section 34, T-14S, R-31E, NMPM Chaves County, New Mexico

- I. The purpose of the application is to request an amendment to Division Order No. SWD-1158-A, to change the injection formation and injection interval from the San Andres (3,817'-4,750' Open-Hole) to the Devonian formation at a depth of approximately 12,900-13,230 feet.
- II. Crain's Hot Oil Service Company, Inc.
 P.O. Box 613
 Lovington, New Mexico 88260
 Contact Party: Mr. David Catanach (505) 690-9453
- III. Injection well data sheet and wellbore diagrams for the Gulf Deep No. 1 are attached showing the current and proposed wellbore configurations.
- IV. This is not an expansion of an existing project, however, the Gulf Deep No. 1 was permitted as a San Andres disposal well by Division Order No. SWD-1158 dated 1/29/2009 and SWD-1158-A dated 8/19/2010.
- V. Enclosed is a map that identifies all wells/leases within a 2-mile radius of the Gulf Deep No. 1 and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. AOR well data is attached. There are fourteen (14) wells located within the AOR of the Gulf Deep No. 1, however none of the wells penetrate the proposed Devonian injection interval. All of the AOR wells were either producing or injection wells in the Caprock-Queen Pool, and were all drilled to a total depth of approximately 3,120 feet. All AOR wells are currently plugged and abandoned.
- VII. 1. The average injection rate is anticipated to be approximately 3,000 BWPD. The maximum rate will be approximately 6,000 BWPD. If the average or maximum rates increase in the future, the Division will be notified.
 - 2. This will be a closed system.
 - 3. Crain's Hot Oil Service, Inc. will initially inject water into the proposed disposal well at a surface pressure that is in compliance with the Division's limit of 0.2 psi/ft. If additional pressure is necessary, a step rate injection test will be conducted on the well in order to obtain a higher surface injection pressure.

- 4. Produced water from various producing formations in Southeast New Mexico will be injected into the subject well. Attached are produced water analysis from various water sources. These water sources were presented in the Form C-108 application that resulted in the issuance of Order No. SWD-1158 and SWD-1158-A.
- 5. Injection is to occur into a formation that is not productive.

VIII.	Geologic Age:	Devonian
	Geologic Name:	Devonian
٠	Average Thickness:	Unknown
	Lithology:	Dolomite & Limestone
	Measured Depth:	Top-12,900' (Estimated)
	USDW's:	Ogallala is present at a depth of approximately 260'

- IX. No stimulation is planned unless disposal rates and pressures dictate.
- X. Logs were filed at the time of drilling.
- XI. According to data obtained from the New Mexico Office of the State Engineer there is one fresh water well located within one mile of the Gulf Deep No. 1. This well is located in the NE/4 of Section 34, Township 14 South, Range 31 East, NMPM. This well is 290 feet deep and water is present at a depth of 260 feet. Water samples were pulled and analyzed for a windmill well located in the NW/4 of Section 12, Township 15 South, Range 31 East, NMPM, Chaves County, New Mexico. Water analysis for this well is shown on Exhibit E. Exhibit E also shows water analysis for two additional water wells located in Sections 23 and 30, Township 14 South, Range 31 East, NMPM.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

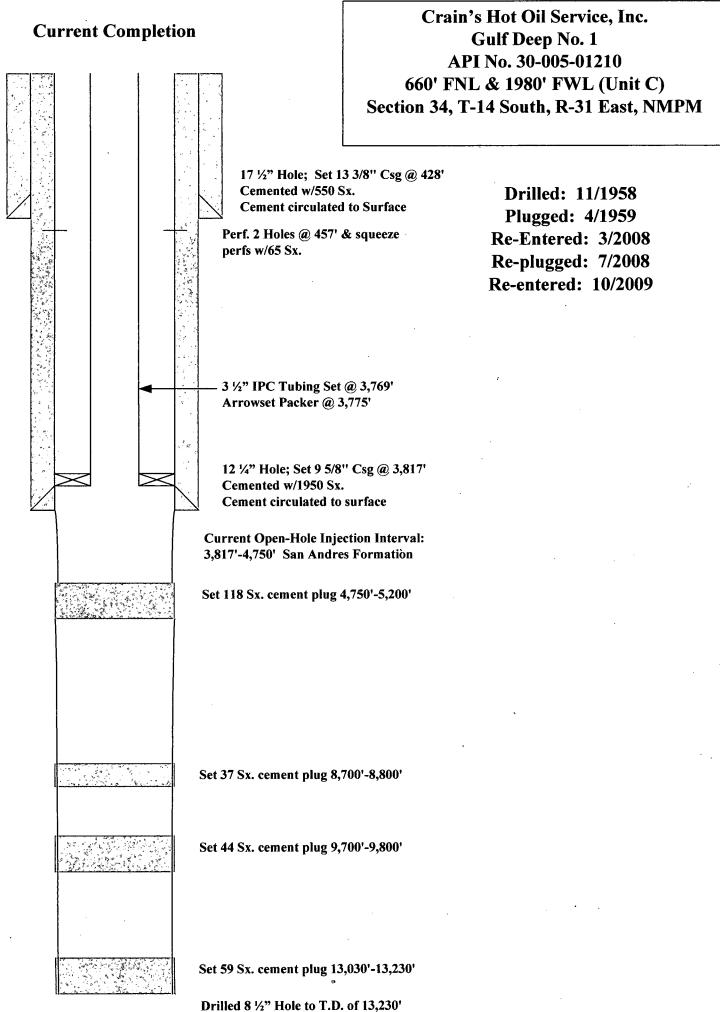
INJECTION WELL DATA SHEET

OPERATOR: Crain's Hot Oil Service, Inc.		
WELL NAME & NUMBER: Gulf Deep No. 1	1 (API No. 30-005-01210)	
WELL LOCATION: 660' FNL & 1980' FWL	•	14 South TOWNSTID
FUULAGE LUCATION	ON ONIT LETTER	SECTION LOWNSHIP KANGE
WELLBORE SCHEMATIC	WELL	WELL CONSTRUCTION DATA Surface Casing
See Attached Wellbore Schematic	Hole Size: 17 1/2"	Casing Size: 13 3/8" @ 428'
	Cemented with: 550 Sx.	or
	Top of Cement: <u>Su</u>	Surface Method Determined: Circulated
	<u>I</u> Hole Size: <u>12 1/4</u> "	Intermediate Casing Casing Size: 9 5/8" @ 3,817'
	Cemented with: 19	1950 Sx. or ft ³
	Top of Cement: Su	Surface Method Determined: Circulated
	되	Production Casing (Proposed)
	Hole Size: $8 \frac{1/2}{1^{st}}$. 1^{st} -900 Sx. Cemented with: 2^{nd} -500 Sx.	Casing Size: 5 1/2" @ 13.230' Sx. DV Tool @ 7,000' Sx. or ft ³
	Top of Cement: 3,600'	Method Determined:
	Total Depth: 13.230'	PBTD:
	ц Т	Injection Interval
	Devonian Forma	Devonian Formation: 12,920'-13,230'- Perforated

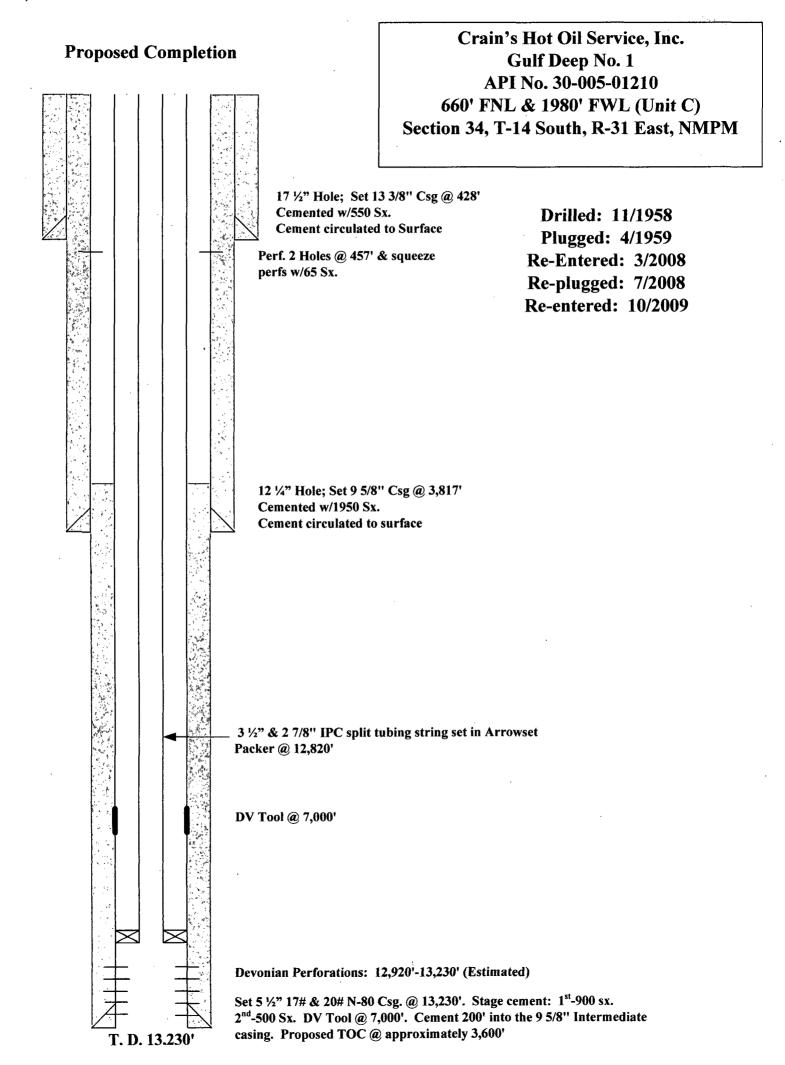
, .

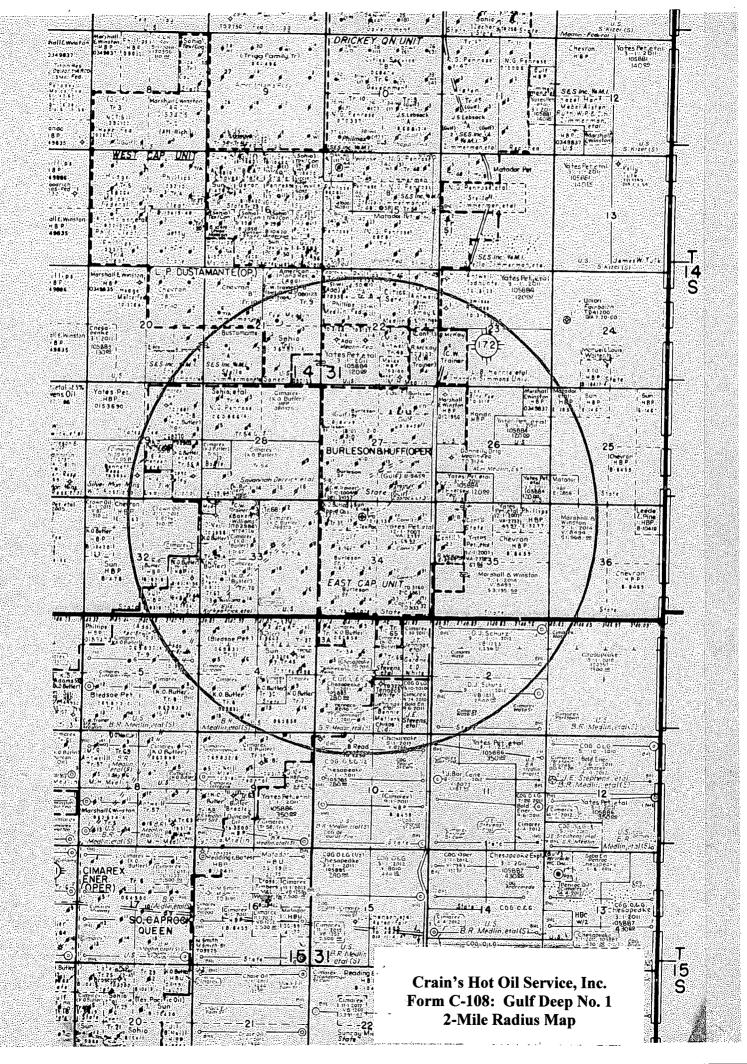
.

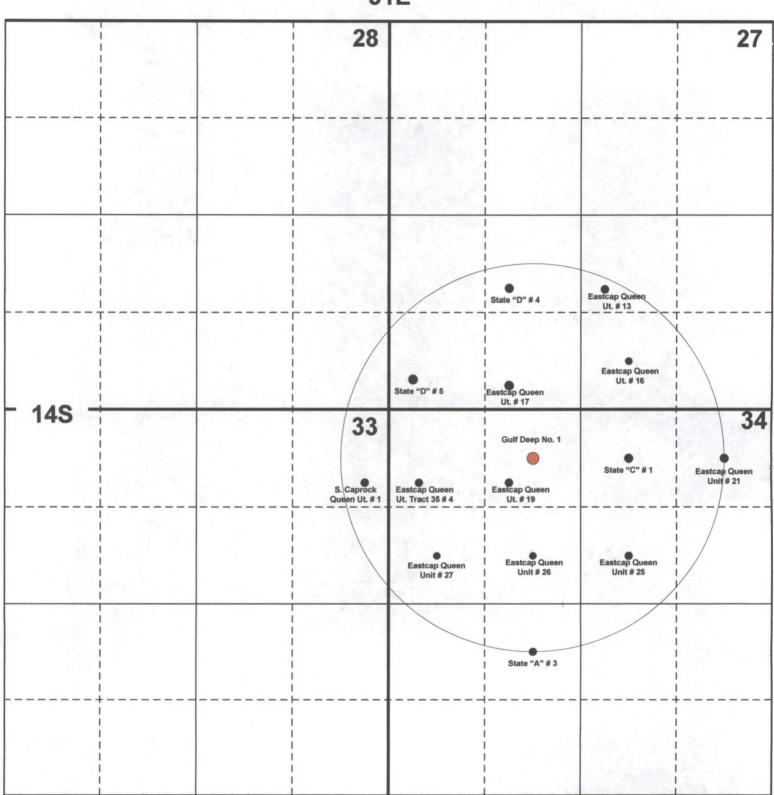
	INJECTION WELL DATA SHEET
Tubi	Tubing Size: 3 1/2" & 2 3/8" split string Lining Material: Internally Plastic Coated
Type	Type of Packer: Arrowset
Pack	Packer Setting Depth: 12,820' or within 100' of the uppermost injection perforations
Othe	Other Type of Tubing/Casing Seal (if applicable): None None
	Additional Data
1.	Is this a new well drilled for injection: Yes Yes X No
	If no, for what purpose was the well originally drilled: <u>Well was originally drilled in 1958 as a Morrow test.</u> Well was plugged in 1959. Well was re-entered in 2008 to test the San Andres formation. Well was re-plugged in 2008. Well was again re-entered in 2009 and completed as a water disposal well in the San Andres formation.
5.	Name of the Injection Formation: Devonian
й.	Name of Field or Pool (if applicable): N/A
4	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
	None
Ċ.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Caprock-Queen Pool (3,100°)



T. D. 13,230'







Form C-108 Application Crain's Hot Oil Service, Inc. Gulf Deep Well No. 1 1/2 Mile Area of Review Map

31E

CRAIN'S HOT OIL SERVICE COMPANY AREA OF REVIEW WELL DATA GULF DEEP WELL NO. 1

	1													
	Well PA'd 8/1971	Well PA'd 2/1975	Well PA'd 2/1975	Well PA'd 7/1975	Well PA'd 2/1975	Well PA'd 2/1975	Well PA'd 2/1975	Well PA'd 9/1987	Well PA'd 2/1975	Well PA'd 5/1986	Well PA'd 2/1975	Well PA'd 1/1974	Well PA'd 5/1986	3,096'-3,101' Perf. Caprock-Queen Pool. Well PA'd 2/1975
S	ell PA'	P.V.	P.V.	P.V.	P.V.	PA-I	P.Ad II	P.Ad II	P.V.	P'A' li	II PA'd	PA'	II PA'd	II PA'd
REMARKS		ol. We			1 1		1 1		ol. We	1 1				ol. We
REI	een P(en Poo	en Poo	en Poo	en Poo	en Poo	en Po(en Poo	en Po	en Po	en Po	en Po	en Po	en Po
	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que	k-Que
	Caproc	Caprock-Queen Pool.	Caprock-Queen Pool.	Caproc	Caprock-Queen Pool.	Caprock-Queen Pool.	Caprock-Queen Pool.	Caprock-Queen Pool.	Caproc	Caprock-Queen Pool.	Caproc	Caprock-Queen Pool.	Caprock-Queen Pool.	Caproc
z	Perf. Caprock-Queeen Pool.	Perf. (0.Н.	3,084'-3,110' O.H. Caprock-Queen Pool.	О.Н.	О.Н.		О.Н.	3,077'-3,089' O.H. Caprock-Queen Pool.		3,080'-3,108' O.H. Caprock-Queen Pool.	Н.О		Perf. (
LETIO	3,102'	3,107	3,108'	3,110	3,115	3,113	3,103'	3,101	3,089'	3,092'	3,108	3,110'	3,113'	3,101
COMP	3,097'-3,102'	3,092'-3,107' Perf.	3,090'-3,108'	3,084'-	3,087'-3,115'	3,092'-3,113'	3,082'-3,103' O.H.	3,084'-3,101'	3,077'-	3,085'-3,092' Perf.	3,080'-	3,094'-3,110'	3,106'-3,113' Perf.	3,096'-
TOTAL COMPLETION DEPTH	3,120'	3,112'	3,108	3,110	3,115	3,113'	3,103'	3,101'	3,089'	3,108'	3,108'	3,110	3,120'	3,120'
		+-+	-++-	++	╶┼╌┼╴		++	+++		-++-	┿╼╋		++	-+
DATE	Aug-55	Mar-56	May-56	Jun-56	Jul-56	Nov-55	Feb-56	Mar-56	May-56	Aug-56	Aug-56	Oct-56	Dec-56	Jun-56
SEC. TSHP. RNG.	31E	31E	31E	31E	31E	31E	31E	31E	31E	31E	31E	31E	31E	31E
TSHP.	14S	14S	14S	14S	14S	14S	14S	14S	14S	14S	14S	14S	14S	14S
SEC.	33	æ	क्ष	स्र	34	33	34	क्ष	34	27	27	27	27	27
UNIT	A	٥	თ	m	A	ш	ш	¥	ပ	Σ	z	7	¥	0
EW	ш	≥	ш	ш	ш	3	3	ш	3	3	3	ш	≥	ш
ETG.	330'	330'	1980'	1980'	660'	660'	1980'	1980'	1650'	330'	1650'	2310	1650'	1980'
SIN .	z	z	z	z	z	z	z	0 0	z	S	S S	0 0	0 0	S
S FTG N/S	.066	,066	1980'	660'	660'	1980	1980'	1980'	,066	460'	330'	1650'	1650'	660
WELL WELL STATUS FTG	PA	ΡA	ΡA	ΡA	PA	ΡA	ΡA	ΡA	ΡA	A ^d	ΡA	ΡA	ΡA	ΡA
WELL	-	٩	-	٩	-		-		-	-		-	-	-
WELL NO.	-	4	25	-	21	27	26	e l	19	5	17	13	4	16
	r. 7A	ct 35								·				
	n Ut.	Ut. Tra	Eastcap Queen Ut.	5	Eastcap Queen Ut	Eastcap Queen Ut.	Eastcap Queen Ut	Α"	Eastcap Queen Ut	-	Eastcap Queen Ut	Eastcap Queen Ut.	5	Eastcap Queen Ut.
LEASE	< Quee	Nueen	ap Que	State "C"	ap Qu	ap Que	ap Qu	State "A"	ap Qu	State "D"	ap Qu	ap Qu	State "D"	ap Qu
	S. Caprock Queen Ut. Tr. 7A	Eastcap Queen Ut. Tract 35	Eastc		Easto	Eastc	Easto		Easto		Easto	Eastc		Easto
		Ĕä												
	n Oil Company of California	<u>v</u>	er & Miller Auctioneers, Inc.	ų	er & Miller Auctioneers, Inc.	er & Miller Auctioneers, Inc.	er & Miller Auctioneers, Inc.	U	er & Miller Auctioneers, Inc.	2 2	er & Miller Auctioneers, Inc.	er & Miller Auctioneers, Inc.	2 2	er & Miller Auctioneers, Inc.
TOR	iy of C	Rapid Company, Inc.	ctionee	Rapid Company, Inc.	ctionee	ctionee	ctionee	Burteson, Inc.	ctionee	Burleson, Inc.	ctionee	ctionee	Burleson, Inc.	ctionee
OPERATOR	ompar	Comp	ler Au	Comp	ler Au	ler Au	ler Au	8. Burt	ler Au	3. Burl	ler Au	ler Au	Burl	ler Au
1. 18 4 1. 1. 18 4 1. 1. 18 4 19 1.	i Oil C	Rapid	r & Mil	Rapid	r & Mil	r & Mil	r & Mil	Lewis B.	r & Mil	Lewis B.	r & Mi	r & Mil	Lewis B.	r & Mil
	Union		Miller		Miller	Mille	Mille		Mille		Mille	Mille		Mil
JMBER)1194	1195)1198	31202)1205)1206	11207)1209	J1145)1146	01147	J1148	J1155
API NUMBER	30-005-01187	30-005-01194	30-005-01195	30-005-01198	30-005-01202	30-005-01205	30-005-01206	30-005-01207	30-005-01209	30-005-01145	30-005-01146	30-005-01147	30-005-01148	30-005-01155
Z	Im	Ř	M	N	N	1 2 1 2	Ř	Ř	No	M	м М	ы	M	Ř

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep No. 1 AOR Well Identification

Form C-108 Affirmative Statement Crain's Hot Oil Service, Inc. Gulf Deep No. 1 Section 34, T-14 South, R-31 East, NMPM, Chaves County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

tana di

12/1/11

David Catanach Agent for Crain's Hot Oil Service, Inc.

Date



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters a						=SE) (NAD83 UTM	l in meters)		(In feet)
POD Number	POD Code Subbas		Q Q 64 16		Sec	Tws	Rng	X	Ŷ		Depth Water C	
<u>L 03204</u>	L	LE	3	2	34	14S	31E		3652772 ige Depth ti Minimun Maximun	n Depth	: 260 fe	eet

Record Count: 1

PLSS Search:

Section(s): 33, 34, 35

Township: 14S

Range: 31E

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep No. 1 Fresh Water Data

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

wa	New I ater C								<u> </u>	neer Water
(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters					=SE) (NAD83 UTN	/in meters)		(In feet)
POD Number	POD Code Subbas	in County			c Tws	Rng	X	Y		Depth Water Water Column
RA 09984		СН	42	2 28	14S	31E	610201 Avera	3660615* age Depth to	350 Water	:
								Minimum Maximum	•	

Record Count: 1

PLSS Search:

Section(s): 26, 26, 28

Township: 14S

Range: 31E

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep No. 1 Fresh Water Data

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Schlumberger

QA/QC Report Water Analysis

Client:	Penroc
Well:	
Field:	
Formation:	
BHST:	
MD:	(ft)
TVD:	(ft)
Perforation Start:	(ft)
Perforation End:	(ft)

Well Location: State: Country: United States

Service Order #:

綤

Date Prepared:



District:	HOBBS	
Phone:	575 393 6186	
Fax:		

Lab Technician:	A. Galindo	Well Site Technician:	
Phone:		Phone:	
Email Address:		Email Address:	

This information is presente liability for advice or recomn product or service. Exhibit D

rger assumes no the use of any

.

selumbar and

Client : Penroc Well : Report # : Date : 12-12-2008 Section 1: District Lab Water Analysis

						\$	Water Analysis Results (1)	is Resul	lts (1)						
Tank	Tank ID	Sample Temp	Temp	На	Sp	Iron	Chloride	Chloride	Carbo-	BiCarbo-	Hydro-	Magne-	Cal-	Hard-	Sul-
		*	(degF)	0	Gravity	(I/gm)	Percent As KCI	(l/ɓɯ)	nate	nate	xide	sium	cium	nesa	phate
-					()	-	(%)		(I/Bm)	(I/gm)	(Ing/I)	(Vgm)	(I/Bm)	(I/6m)	(mg/L)
-	Próduction:	+-	65	6.65	1.15	0	14.14	67355	240,	488	0	0	4010	18	200
N	Windmill Water		65	7.68	1.00	0	0.19	886	240	488	0	122	201	5	06
1															

Exhibit D

Penroc Oil Corporation API #: 3000521028 Well_Name: L WRINKLE # 001 Location: D-13-15.0S-31E, 990 FNL, 660 FWL Lat:33.0206201945 Long:-103.781516655 Operator Name: PENROC OIL CORP [Operator and Lessee Info] County: Chaves Land Type: Private Well Type: Oil Spud Date: Plug Date: Elevation GL: Depth TVD: 11500 Tulk; Wolfcamp, Southwest Production water is from

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep No. 1 Water Analysis

3

FAMILIES AND

a nurd













	STAT	E JO 001	
API	3002500354	Sample Number	_
Unit/Section/ Township/Range	O / 33 / 15 S / 32 E	Field	
County	Lea	Formation	_
State	NM	Depth	
Lat/Long	32.96851 / -103.71999	Sample Source	WELLHEAD
TDS (mg/L)	117536	Water Type	
Sample Date(MM/DD /YYYY)	_	Analysis Date(MM/DD /YYYY)	_
Remarks/Description	חכ		
Catio	on Information (mg/L)	Anic	on Information (mg/L)
Potassium (K)		Sulfate (SO)	1300
Sodium (Na)	<u> </u>	Chloride (Cl)	71040
Calcium (Ca)		Carbonate (CO ₃)	
Magnesium (Mg)		Bicarbonate (HCO ₃)	606
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	
Strontium (Sr)		Carbon Dioxide (CO ₂)	_
Iron (Fe)	_	Oxygen (O)	





Exhibit D













	General Informatio	n About: Sample	e 2354
·	LEA GE	STATE 001	
API	3002500351	Sample Number	
Unit/Section/ Township/Range	B / 32 / 15 S / 32 E	Field	
County	Lea	Formation	
State	NM	Depth	
Lat/Long	32.97835 / -103.73712	Sample Source	UNKNOWN
TDS (mg/L)	77222	Water Type	
Sample Date(MM/DD /YYYY)		Analysis Date(MM/DD /YYYY)	_
Remarks/Description	on		
Catio	on Information (mg/L)	Anio	on Information (mg/L)
Potassium (K)		Sulfate (SO)	1970
Sodium (Na)		Chloride (CI)	44700
Calcium (Ca)		Carbonate (CO ₃)	
Magnesium (Mg)		Bicarbonate (HCO ₃)	870
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	
Strontium (Sr)		Carbon Dioxide (CO ₂)	_
Iron (Fe)		Oxygen (O)	_





Exhibit D

12/16/2008 2.06 PM

101011



TIDATA









	TU	LK001	•
API	3000501050	Sample Number	••••
Unit/Section/ Township/Range	B / 13 / 14 S / 31 E	Field	
County	Chaves	Formation	
State	NM	Depth	
Lat/Long	33.10926 / -103.77335	Sample Source	heater treater
TDS (mg/L)	66509	Water Type	Produced Water
Sample Date(MM/DD /YYYY)	7/14/1983	Analysis Date(MM/DD /YYYY)	_
Remarks/Description	nc		
Catio	on Information (mg/L)	Anio	on Information (mg/L)
Potassium (K)		Sulfate (SO)	325
Sodium (Na)	31901	Chloride (Cl)	61000
Calcium (Ca)	2160	Carbonate (CO ₃)	-
Magnesium (Mg)	2840	Bicarbonate (HCO ₃)	184
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	0
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)	10	Oxygen (O)	2

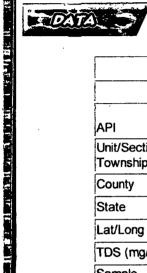




12/12/2000 2 05 01

Exhibit D





275 . A . A . A . A .









	TRIGG FI	EDERAL 001	_
API	3000501006	Sample Number	
Unit/Section/ Township/Range	I/09/14S/31E	Field	CAPROCK
County	Chaves	Formation	ARTESIA
State	NM	Depth	_
Lat/Long	33.11559 / -103.81959	Sample Source	_
TDS (mg/L)	203550	Water Type	_
Sample Date(MM/DD /YYYY)	7/19/2000	Analysis Date(MM/DD /YYYY)	8/2/2000
Remarks/Description	 on		
Catio	on Information	Anic	on Information
	· (mg/L)		(mg/L)
Potassium (K)	682.52	Sulfate (SO)	3986.64
Sodium (Na)	83464.1	Chloride (Cl)	136251
Calcium (Ca)	4144.84	Carbonate (CO ₃)	0
Magnesium (Mg)	940.16	Bicarbonate (HCO ₃)	468.95
Barium (Ba)	0.113	Hydroxide (OH)	<u> </u>
Manganese (Mn)	_	Hydrogen Sulfide (H ₂ S)	33.9
Strontium (Sr)	68.93	Carbon Dioxide (CO ₂)	_
Iron (Fe)	3.955	Oxygen (O)	





10/16/000 0.05 014

Schimberger

Client : Penroc Well : Report # : Date : 12-12-2008

.

Section 1: District Lab Water Analysis

ł		.	Ļ	l]	
		phate (mo/l)	1		6	
	Hard-	0000 (1000)	111911	18	2	
	Cal-	clum	- /iiRiii	4010	201	
	Magne-	sium ((I/Bill)	٥	122	
	Hydro-	epix	(I/Rui)	0	0	
		nate ()			488	
lts (1)	Carbo-	nate	(iibu)	240	240	
is Resu	Chloride	(J/gm)		67355	886	
Vater Analys	Chloride	Percent As KCI (mg/l) nate	(2)	14,14	0.19	
>	Iron	(l/ĝµ)		0	0	
	Sp	Gravity	2	1.15	1.00	
	H	=		6.65	7.68	
		(degF)		62	65	
	Sample	#		+	-	
	Tank ID			Production Water	Windmill Water	
	Tank	*		-	2	

Exhibit E Windmill Water

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep No. 1 Water Analysis

2

;

	L	NM		DI
- DA		mars //	TIOME	gaag
		General Inform	ation About: Sar	nple 3629
	Section/ Township/Range	General Inform 30 / 14 S / 31 E	ation About: Sar	mple 3629 33.0744 / -103.861
		·		
	Township/Range	30 / 14 S / 31 E	Lat/Long	33.0744 / -103.861
	Township/Range Elevation	30 / 14 S / 31 E 4052	Lat/Long Depth	33.0744 / -103.861 0

New Mexico Tech

APPIRC

Exhibit E

	l	NIMI		
Ē.		MAPS /	HOME	conn
				· · · · · · · · · · · · · · · · · · ·
		General Inform	ation About: Sam	ple 4803
	Section/ Township/Range	General Inform 23 / 14 S / 31 E	ation About: Sam	aple 4803 33.0889 / -103.7917
		· / · · · · · · · · · · · · · · · · · ·	r	
	Township/Range	23 / 14 S/ 31 E	Lat/Long	33.0889 / -103.7917
	Township/Range Elevation	23 / 14 S/ 31 E 4395	Lat/Long Depth	33.0889 / -103.7917 292

New Mexico Lech

APRAC

Exhibit E

December 1, 2011

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

TO: Offset Leasehold Owners/Surface Owner

Re: Crain's Hot Oil Service, Inc.
NMOCD Form C-108 (Application to Amend SWD-1158-A)
Gulf Deep Well No. 1
660' FNL & 1980' FWL (Unit C) Section 34, T-14 South, R-31 East, NMPM, Chaves County, New Mexico

Dear Sir:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) to amend Division Order No. SWD-1158-A dated August 19, 2010. Order No. SWD-1158-A authorized the use of the Gulf Deep Well No. 1 as a produced water disposal well, injection to occur into the San Andres formation through the open-hole interval from 3,817 feet to 4,750 feet. Crain's Hot Oil Service, Inc., the current operator of the well, now seeks to discontinue injection into the San Andres formation and deepen and complete the well as a disposal well in the Devonian formation at a depth of approximately 12,900-13,230 feet. You are being provided a copy of the application as an offset leasehold owner or surface owner of the land on which the existing disposal well is located.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453.

Sincerely, avid (atavad

David Catanach Agent for Crain's Hot Oil Service, Inc. P.O. Box 613 Lovington, New Mexico 88260

Enclosure

Crain's Hot Oil Service, Inc. Form C-108: Gulf Deep Well No. 1 Section 34, T-14 South, R-31 East, NMPM Chaves County, New Mexico

Notice List

Offset Leasehold Owners (See Attached Map)

Chevron USA, Inc. 15 Smith Road Midland, Texas 79705

Marshall & Winston, Inc. P.O. Box 50880 Midland, Texas 79710

Kerr-McGee O/G Onshore, LP Land Department 5735 Pineland Drive, Suite 300 Dallas, Texas 75231

Kevin O. Butler & Associates, Inc. 550 W. Texas, Suite 660 Midland, Texas 79701

Yates Petroleum Corporation Yates Drilling Company Abo Petroleum, Inc. Myco Industries, Inc. 105 S. Fourth Street Artesia, New Mexico 88210

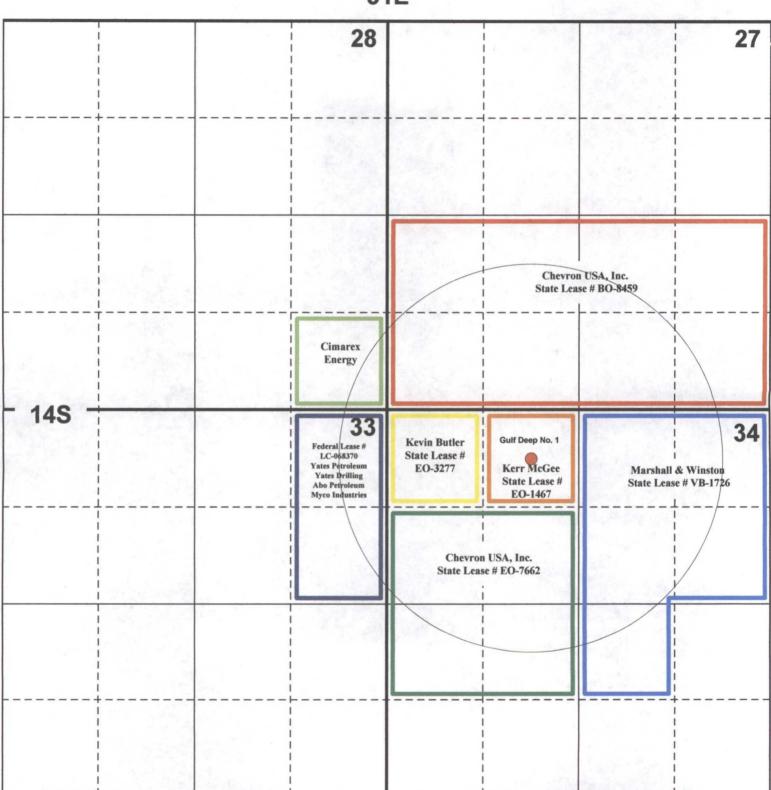
Cimarex Energy, Inc. 600 N. Marienfeld, Suite 600 Midland, Texas 79701

Surface Owner

Commissioner of Public Lands Attn: Oil & Gas Dept. P.O. Box 1148 Santa Fe, New Mexico 87504

Additional Notice

Oil Conservation Division (Hobbs Office) 1625 N. French Drive Hobbs, New Mexico 88240



Form C-108 Application Crain's Hot Oil Service, Inc. Gulf Deep Well No. 1 1/2 Mile Notice Area Lessee Identification

31E

Form C-108 Crain's Hot Oil Service, Inc. Gulf Deep Well No. 1 Section 34, T-14 South, R-31 East, NMPM, Chaves County, New Mexico

Legal notice will be published in the:

Roswell Daily Record 2301 N. Main Roswell, New Mexico 88201

A copy of the Affidavit of Publication will be provided to NMOCD upon receipt by Crain's Hot Oil Service, Inc.

Crain's Hot Oil Service, Inc., P.O. Box 613, Lovington, New Mexico 88260 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to amend Division Order No. SWD-1158, as amended, to abandon the open-hole San Andres interval from 3,817 feet to 4,750 feet as the disposal zone, and to utilize the Devonian formation as the new injection interval in the following-described well located in Chaves County, New Mexico:

Gulf Deep Well No. 1 API No. 30-005-01210 660' FNL & 1980' FWL (Unit C) Section 34, T-14S, R-31E Injection Interval (Estimated): 12,920'-13,230' Perforated

Produced water various sources in Southeast New Mexico will be injected into the well at average and maximum rates of 3,000 and 6,000 barrels of water per day, respectively. The average and maximum surface injection pressure for the well is anticipated to be 2,584 psi and 3,000 psi, respectively.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Mr. David Catanach, Agent for Crain's Hot Oil Service, Inc. at (505) 690-9453.

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Joanna Prüköp Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Festilire Division Difector Oil Conservation Division



Administrative Order SWD-1158

January 29, 2009

Billy Prichard, Agent Penroc Oil Corporation P.O. Box 2769 Hobbs, NM 88241

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Rule 26.8B., Penroc Oil Corporation seeks administrative order to utilize its Gulf Deep Well No. 1 (API 30:005:01210) located 660 feet from the North line and 1980 feet from the West line, Unit C of Section 34, Township 14 South, Range 31 East, NMPM, Chaves County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 26.8B. Satisfactory information has been provided that affected parties as defined in Rule 26.8B.(2) have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 26.8 will be met and the operator is in compliance with Division Rule 5.9.

IT IS THEREFORE ORDERED THAT:

The applicant Penroc Oil Corporation, is hereby authorized to utilize its Gulf Deep Well No. 1 (API 30-005-01210) located 660 feet from the North line and 1980 feet from the West line, Unit C of Section 34, Township 14 South, Range 31 East, NMPM; Lea County, New Mexico, for injection of produced water for disposal purposes into the San Andres formation from 3810 feet to 4700 feet through 3-1/2 inch plastic-lined tubing set at 3775 feet.

Before commencing injection operations into the injection well, the operator shall place a 50-foot cement plug from 4750 feet to 4700 feet to isolate the Glorieta formation from the injection interval in the San Andres Formation

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the



Administrative Order SWD-1158 Penroc Oil Corporation January 29, 2009 Page 2 of 3

proposed injection interval and is not permitted to escape to other formations or onto the surface.

After installing injection tubing, the casing tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to no more than 762 psi. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall be demonstrated by an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district II office in Artesia of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the Division's district II office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 26.13 and 7.24.

Without limitation on the duties of the operator as provided in Division Rules 30 and 29, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

In accordance with Division Rule No 26.12.C., the injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good cause. The injection authority shall terminate *ipso facto* one year after injection operations into the well has ceased

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment. Administrative Order SWD-1158 Penroc Oil Corporation January 29, 2009 Page 3 of 3

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

MARK E. FESMIRE, P.E. Director

MEF/re

cc:

Oil Conservation Division – Artesia State Land Office – Oil, Gas, and Minerals Division Bureau of Land Management (BLM)-Roswell New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Jim Noel Cabinet Secretary

Karen W. Garcia Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



Administrative Order SWD-1158-A August 19, 2010

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Rule 26.8B., Penroc Oil Corporation seeks an administrative order to utilize its Gulf Deep Well No. 1 (API 30-005-01210) located 660 feet from the North line and 1980 feet from the West line, Unit Letter C of Section 34, Township 14 South, Range 31 East, NMPM, Chaves County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 26.8B. Satisfactory information has been provided that affected parties as defined in Rule 26.8B.(2) have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 26.8 will be met and the operator is in compliance with Division Rule 5.9.

IT IS THEREFORE ORDERED THAT:

The applicant, Penroc Oil Corporation, is hereby authorized to utilize its Gulf Deep Well No. 1 (API 30-005-01210) located 660 feet from the North line and 1980 feet from the West line, Unit Letter C of Section 34, Township 14 South, Range 31 East, NMPM, Chaves County, New Mexico, for disposal of oil field produced water (UIC Class II only) into the San Andres formation through an open hole completion from approximately 3817 feet to 4750 feet through lined tubing and a packer set within 100 feet of the disposal interval.

IT IS FURTHER ORDERED THAT:

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

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine

> Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 * Phone: (505) 476-3440 * Fax (505) 476-3462* <u>http://www.emnrd.state.nm.us</u>

leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to **no more than 764 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district office of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 26.13 and 7.24.

Without limitation on the duties of the operator as provided in Division Rules 30 and 29, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

In accordance with Division Rule No 26.12.C., the disposal authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good cause. One year after disposal into the well has ceased, the authority to dispose will terminate *ipso facto.*

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the Administrative Order SWD-1158-A Penroc Oil Corporation August 19, 2010 Page 3 of 3

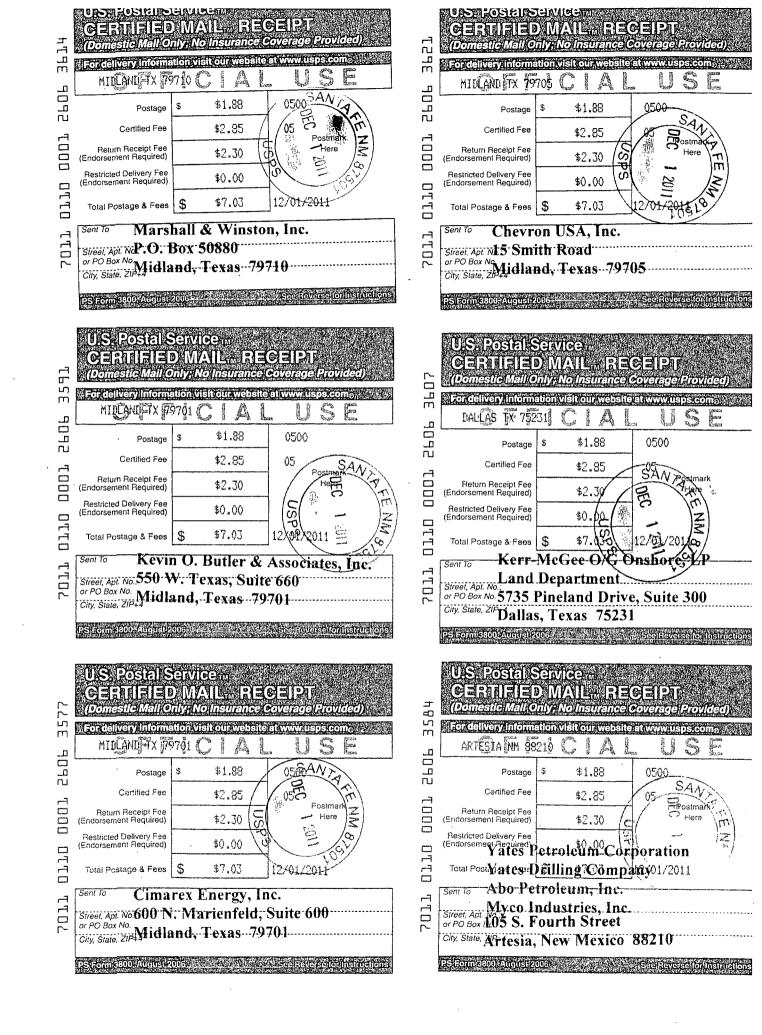
operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.

۲ MARK E. FESMIRE, P.E.

Acting Director

MEF/wvjj

cc: Oil Conservation Division – Hobbs State Land Office – Oil, Gas, and Minerals Division Bureau of Land Management – Carlsbad



406 3560	USH POSIEI SEAVICE GERTIELED MAIL (Comesticidated Only: No Insurance Coverage Provided) Corcenvery Information visit considerate State Advantages State SANTA) FE-NM-B7504C A L USE Postage \$ \$1.88 0500
12 TOOO OTTO	Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$ \$7.03 Commissioner of Public Lands
-	Sent To Attn: Oil & Gas Dept. Street, Apl. Mr. or PO Box AP.O. Box 1148 City, State, Santa Fe, New Mexico 87504 City State, Santa Fe, New Mexico 87504

.

.

Jones, William V., EMNRD	EMNRD
From: Sent: To: Cc: Subject:	Jones, William V., EMNRD Wednesday, December 07, 2011 11:50 AM 'drcatanach@netscape.com' Dade, Randy, EMNRD; Shapard, Craig, EMNRD Disposal application from Crain's Hot Oil Service, Inc.: Gulf Deep #1 30-005-01210 Devonian from 12920 to 13230 feet
Hey Mr. Catanach, I am preparing this as SM	Hey Mr. Catanach, I am preparing this as SWD-1158-B to be released 12/16 or 15 days after the newspaper notice is posted.
Please send a copy of th Do they plan on running Do you know why we ser	Please send a copy of the newspaper notice when you can. Do they plan on running any more logs on this well after drilling out the plugs? Do you know why we sent a copy of previous SWD permits on this well to the BLM?
I talked to the owner of (originally plugged a LON I noticed from the DST's did not work out for som	I talked to the owner of Crain's Hot Oil Service a few months ago and forgot the reason the San Andres was being abandoned. The lower part of this well was originally plugged a LONG time ago, so re-entering is never a sure thing. I noticed from the DST's in the well file, that the interval (Wolfcamp or Cisco) from 9720 to 9818 was tested at a high water recovery – just in case the Devonian did not work out for some reason. The existing logs may not be good enough to pick any upper intervals if they are needed in the future.
Thank You,	
<u>Will Jones</u> New Mexico Oil Conservation Division <u>Images Contacts</u>	

-

Injection Permit Checklist (11/15/2010) B permit Date 28 11 UIC Qtr SWD 1158 WFX PMX Well Name(s): GULF DEEPA 1 # Wells 1958 01210 New/Old: (UIC primacy March 7, 1982) API Num: 30-0 Spud Date: Unit C Sec 34 TSp [4-5] Footages 660FN1 1980FW Rge 315 County CHAVES General Location: SERVICE KANN'S HOT OIL Operator: 🤇 LNC_Contact BOC RULE 5.9 Compliance (Wells) 0 OGRID: 1S 5.9 OK? b۴ (Finan Assur) Prizes VSP. web Well File Reviewed Current Status: Æll F <u>9210</u> Ð Planned Work to Well: Diagrams: Before Conversion_ After Conversion Elogs in Imaging File: Sizes Determination Setting Stage Cement Well Details: Hole,.....Pipe Depths Tool Sx or Cf Method 12/8 New __Existing __Surface z 475 550 C 950 New _Existing _Interm 78 381 z 7000 2 5 500 Existing __ LongSt R 3600 New New_Existing _Liner New_Existing _ OpenHole of Rock Quan are **Depths/Formations:** Formation Depths, Ft. Tops? EST. DEV 2900 Formation(s) Above Injection TOP: した Max. PSI OpenHole_ Perfs 6820 Tubing Biz 30 Injection BOTTOM: DE Packer Dept Formation(s) Below 155 Capitan Reef? Salado Top/Bot **Cliff-Hous** olash 06.22.46 Fresh Water: Depths: R 260 Formation Wells? Analysis? _Affirmative Statement CONFERCIA Disposal Fluid Analysis? Sources No SHO Production Potential/Testing Disposal Interval: Analysis?-12/1 \sim Notice: Newspaper Date 5 Surface Owner Mineral Owner(s) Cff BUTLE Κo RULE 26.7(A) Affected Persons: moneri đ Producing in Interval? NO Wellbore Diagrams? AOR: Maps? Well List? .Active Wells **Repairs?** WhichWells? -9818 GOD FLUID KECK Which Wells? .P&A Wells **Repairs?** 1200 Request Sent Reply: Issues:

6