# Mallon Oil Company Denver/Colorado • Carlsbad/New Mexico

September 9, 1997

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

Gentlemen:

Mallon Oil Company is requesting an amendment to Administrative Order SWD-665 approved by your office on July 7, 1997. This order granted Mallon Oil approval to inject produced water from the Picture Cliffs, Ojo Alamo, and Fruitland Coal formation into the Entrada formation at approximately 9300 feet.

Mallon Oil Company is presently operating an Amine Plant in this field to remove the H<sub>2</sub>S from the gas production of the Ojo Alamo formation. This production contains .22% H<sub>2</sub>S (see attached analysis) which is presently being flared under approval from the EPA. In an effort to promote a more environmentally sound and safer operation we are requesting approval to inject 4 MCFD of 100% H<sub>2</sub>S gas into the disposal stream to the Entrada formation. The produced water from the Ojo Alamo formation contains some H<sub>2</sub>S in solution, therefore, there will be no additional compounds introduced into the Entrada that was not previously permitted. Thank you for your consideration of this proposal.

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Sincerely,

Terry Lindeman
Exploration/Production Superintendent

Approved at Santa Fe, New Mexico on this \_\_\_\_\_\_ day of September, 1997.

CDS Laboratories 75 Suttle Street PO Box 2605 Durango, CO 81302 Phone: (970) -247-4220 Fax : (970) -247-4227

Report Date:

04/25/97

### ANALYSIS REPORT

Attn:

MALLON OIL CO

ATTN: TERRY LINDEMAN

PO BOX 3256

CARLSBAD NM 98320

Our Lab #: A97-132324

Sample ID: J 459 #8
Date Login: 04/08/97
Date Rec'd: 04/07/97

COLLECTION INFORMATION

Date/Time/By: 04/07/97 1345 J.B.

Location:

.ab#	Testname	Result	Units
	ها يو او العربية ما موايد يو يا يو		man dia mpika dan mpinan anda pangan at a a a a a a a a a a a a a a a a a
497-132324	N3	2.60	<b>%</b>
	0.5	0.00	₹
	CO	0.00	*
	CH4	91.11	€
	ÇO2	0.00	₹
	C2H6	5,55	*
	СЗНЯ	0.42	*
	C4H10	0.23	8
	C5H12	0.08	*
	C6+ (approx)	0.00	કેં
	Total	100.0	*
	Compressibility Factor	0.9978	•
	Specific Gravity @ 60°F	0.6020	
	bTU/cu.ft. 8 60°F Wet	1026.21	BTU/ca.ft.
	BTU/cu.ft. @ 60°P Dry	1044.68	BTU/cu.ft.
	H2S, laboratory	2225.0	
	H2S. field	2410.0	pba
	Mercaptan Sulfur in Fuel,	105.0	рра
	ASTH D-3227	193.0	bbu
	Calculated as Butyl Mercaptan	295.0	nnn.
	Calculated as Ethyl Mercaptan		bbw
	Zone 4 sampling, up to 5 hours	203.0	mqq.
	and a multipliate of the property		mi/triti

Approved By:

\_Checked By:

D3/

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

September 12, 1997

Mallon Oil Company P.O. Box 3256 Carlsbad, New Mexico 88220

Attention: Mr. Terry Lindeman

Re:

Permit Modification

SWD-665

Dear Mr. Lindeman:

Reference is made to your request dated September 9, 1997, for authorization to inject approximately 4 MCF per day of .22% H<sub>2</sub>S into the Simms Well No. 1, located in Unit J of Section 13, Township 30 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, a disposal well permitted by Division Order No. SWD-665.

Pursuant to Division and/or Federal UIC Rules and Regulations, your request is hereby granted.

Sincerely

William J. LeMay

Director

xc:

File-SWD-665

OCD-Aztec

September 15, 1997

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

#### Gentlemen:

Mallon Oil Company is requesting an amendment to Administrative Order SWD-665 approved by your office on July 7, 1997. This order granted Mallon Oil approval to inject produced water from the Picture Cliffs, Ojo Alamo, and Fruitland Coal formation into the Entrada formation at approximately 9300 feet.

Mallon Oil Company is presently operating an Amine Plant in this field to remove the H<sub>2</sub>S from the gas production of the Ojo Alamo formation. This production contains .22% H<sub>2</sub>S (see attached analysis) which is presently being flared under approval from the EPA. In an effort to promote a more environmentally sound and safer operation we are requesting approval to inject 100 MCFD of 100% H<sub>2</sub>S gas into the disposal stream to the Entrada formation. The produced water from the Ojo Alamo formation contains some H<sub>2</sub>S in solution, therefore, there will be no additional compounds introduced into the Entrada that was not previously permitted. Thank you for your consideration of this proposal.

Sincerely,

Terry Lindeman

Exploration/Production Superintendent

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

September 16, 1997

Mallon Oil Company P.O. Box 3256 Carlsbad, New Mexico 88220

Attention: Mr. Terry Lindeman

Re:

Permit Modification

SWD-665

Dear Mr. Lindeman:

Reference is made to your request dated September 15, 1997, for authorization to inject approximately 100 MCF per day of H<sub>2</sub>S gas into the Simms Well No. 1 located in Unit J of Section 13, Township 30 North, Range 4 West, NMPM, Rio Arriba County, New Mexico, a disposal well permitted by Division Order No. SWD-665.

Pursuant to Division and/or Federal UIC Rules and Regulations, your request is hereby approved subject to the following conditions:

- a) the volume of injected H<sub>2</sub>S gas shall be limited to 100 MCF per day; and,
- b) the operator shall conduct a mechanical integrity pressure test on an annual basis, and shall notify the Aztec district office of the Division prior to testing.

Division Order No. SWD-665 is hereby amended to include these conditions.

Sincerely,

William J. LeMay

Director

xc:

NMOCD-Aztec

File-SWD-665

# Mallon Oil Company

a Mallon Resources Subsidiary

Denver/Colorado • Durango/Colorado • Carlsbad/New Mexico

February 16, 2000

Mr. Charlie Perrin New Mexico Oil & Gas Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Simms Federal #1 Water Disposal Well NW SE Sec.13, T30N, R4W East Blanco Field Rio Arriba County, NM

Dear Mr. Perrin,

Mallon Oil Company is requesting an exemption to running a coated/lined tubing in the Simms Federal #1 water disposal well. The approved water disposal permit (SWD-665) requested that coated/lined tubing be ran in this well. Under normal injection operations, we are injecting approximately 1,800 BWPD with the addition of approximately 30 MCFD of hydrogen sulfide gas. A recent workover on this well indicated that our 2 7/8". L-80 tubing held up quit well to this hydrogen sulfide gas environment where as the 2 1/16". J-55 tubing showed server corrosion which resulted in a hole in the tubing. During the workover operations we were allowed to run the L-80 tubing back into the well and return to injection so that we could investigate the best coating for this environment. After questioning different companies that provide coating or lined tubing we have not come up with any that will guarantee the products in this well. Duroline fiberglass lining seems to be the best product and would be the product of choice if I cannot get the wavier that I am requesting. When we ran the temporary tubing string into this well, we went back into the well with all L-80 tubing for the 2 7/8" and 2 1/16" tubing string. The cross-overs and packer are nickel plated which holds up very well to the hydrogen sulfide gas. It is my best engineering judgment that the L-80 tubing will hold up quit well to this environment and thus I am asking for the permit variance. I am afraid that any coated or lined tubing will result in pealing or blistering and would ultimately result in injectivity problems. Please refer to the attached diagrams and sundry notice.

Sincerely,

John Zellitti

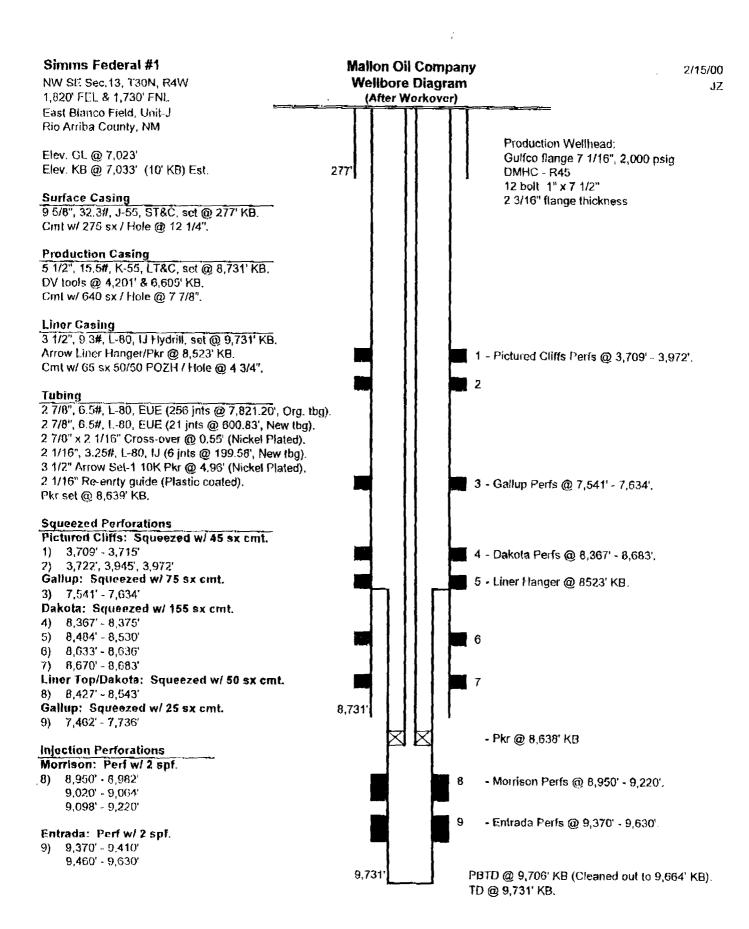
Senior Production Engineer

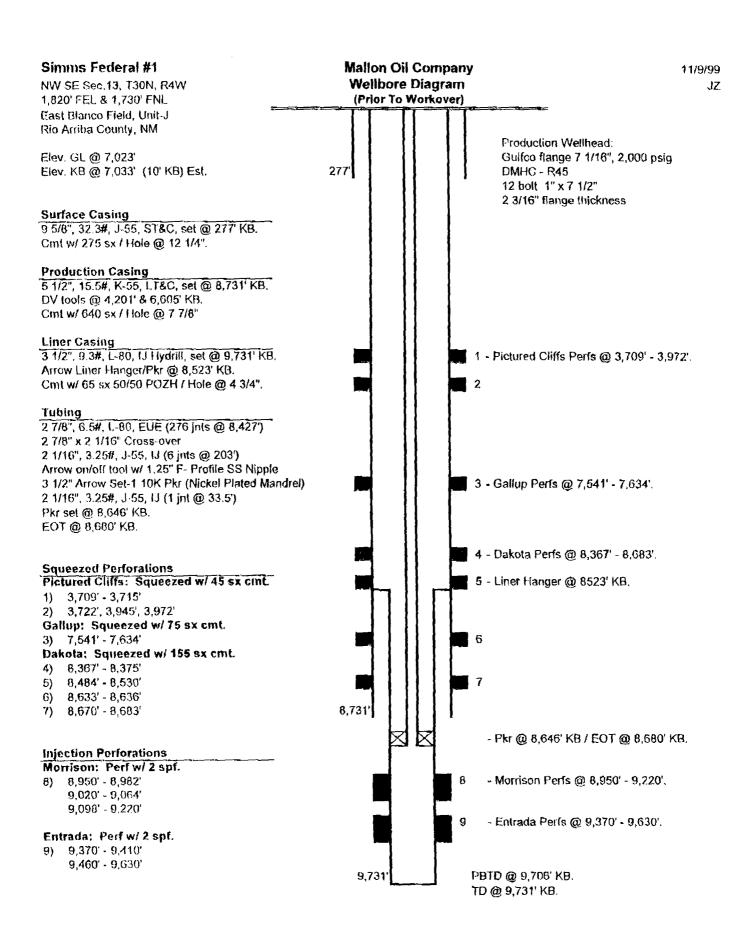
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(970-382-9100)

CC: Mark Ashley

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	Use "APPLICATION FOR PERMIT -	" for such proposals.	
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Name of Optimier Ma	llon Oil Company		8 Well Name and No. 1
Addin's and Telephone No. P.C	). Box 2797 Durango, CO 81302	(970)382-9100	9 Well API No. 30039-22756
Location of Well (Footings Sec., T.	R. M. or Survey Description)		10 Field and Poul, or Exploratory Aven East Blanco Field
1,730' FSL and 1,820' FEL, (NW SE), Unit J		11 County or Farish, State	
	30N, R04W		Rio Arriba County, NM
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ال ال المساور و	CHECK APPROPRIATE BOX(S) TO I	NDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
	TYPE OF SUBMISSION	TYF	E OF ACTION
r <sup>-</sup> 1	Notice of Intard	Abandanan	Character -
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Simms Federal \*1

2/15/00

ed Workover to repair esg integrity.

Summary of Gsa tests

- 1 Liner Test 8,543' 8,646' No leak
- @ Liner Hanger / Lower Dakota Perfs Leak (1200 przy /20 mi) 8427 - 859:3
- (3) Upper Dakota Perfs & Csg interval No Leak
- @ Gallup Perf-s 7462-7736 Leak (40 ps; 120 min
- 3) Pictured Cliffs & CSQ to Surface No Leak Surface - 7462'

## Remedial Work Preformed

- (1) Squeeze cont liner top / Dakota Perfs. 50 sxs / 14 BBIS cont slurry (50/50 POZ) Squeeze to 1750 psig.
- (2) Squeeze cont Gallup Perfs.
  25 sx / 5 BBIS cont slury (Mico Matrix)
  Squeeze to 1000 psig.
- @ Drill out cont & clean out well to 9664.
- (A) TIH W/ BHA as follows:

256 jnts, 27/8", 6.5", L-80, ELE they (Original string)
21 jnts, 27/8", 6.5", L-80, ELE they (New they)
21/16" x 27/8" x-over (Nickel Plated)
600.83'
6 jnts, 21/6", 3.25", L-80, II they (New they)
31/2" Arrow Set-1 lok packer (Nickel Plated)
21/16" Re-entry Guide (Plastic Coated)
8628.77

KB Btm of PKR Lambed @

10.00

(5) Pump 110 Bb1s 200 KCI WIR W/ 110 gals Baker PKR Fluid.
Preform Csg integrity Test.

STATES SO STREETS CONTRACTOR STREETS CONTRACTOR STREETS

LEGAL NOTICE Malion Oil Company, P.O. Box 3256, Carlsbad, N.M., 88220, has filed Form C-108 (Application For Authorization To Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the "Simms #1" is located. 1730 FSL 1820 FEL Section 13, Township 30 North, Range 4 West Rio Amba County. New Mexico. Disposal water will be sourced from area wells producing from the Fruitland Coal and Pictured Cliffs formations. The Simms #1 is proposed to be deepened to a new TD of 9790' and cased with a liner comented from top to bottom. Disposal water will be injected into the Entrada formation at a depth of 9690 9790 a maximum surlace pressure of 2587 psl, and a maximum rate of 2000 bwpd.

All interested parties opposing the action must file objections or requests of hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe. New Mexico 87501, within 15 days. Additional information can be obtained by contacting Duane Winkler at P.O. Box 3256, Carlsbad, New Mexico 88220, or (505) / 885-4596.

(Published May 29, 1997)

Total \$ 20.72

teceived payment

RIO GRANDE SUN

### Affidavit of Publication

STATE OF NEW MEXICO
County of Rio Artiba

I, Robert Trapp, being first duly sworn, declare and say that I am the Pub-
lisher of the Rio Grande Sun, a weekly newspaper, published in the English lan-
guage, and having a general circulation in the City of Espanola and County of
Rio Arriba, State of New Mexico, and being a newspaper duly qualified to pub-
lish legal notices and advertisements under the provisions of Chapter 167 of the
Session Laws of 1937; that the publication, a copy of which is hereto attached,
/

was published in said paper once each week for . ./... consecutive weeks, and on the same day of each week in the regular issue of the paper during the time of publication, and that the notice was published in the newspaper proper, and

not in any supplement, the first publication being on the
1997 and the last publication on the 29. day
of
been (duly made), or (assessed as court costs); that the undersigned has person
al knowledge of the matters and things set forth in this affidavit.
Palent To All

Notary Public .

My Commission expires

5-17-0