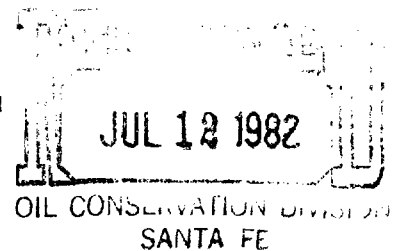


MADDOX ENERGY CORPORATION
SUITE 3030
717 N. HARWOOD
DALLAS, TEXAS 75201
—
214 745-1653



July 1, 1982

Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Gentlemen:

With reference to our letter dated June 22, 1982, enclosed are copies of certified letter receipts mailed to offset lease holders and a proof of notice relative to the official publication of our intention to convert the Dorstate No. 1 well (Sec. 27, T25S, R28E, Eddy County) to salt water disposal use.

Please process our application administratively. We will be glad to assist or supply additional information, if required, in order to insure timely approval of the application.

Sincerely yours;

MADDOX ENERGY CORPORATION

George W. Zahn
Vice President

GWZ/rmb

Encls.

PS Form 3811, Jan. 1978

1. The following service is requested (check one.)
☒ Show to whom and date delivered.
☐ Show to whom, date and address of delivery.
☐ RESTRICTED DELIVERY
Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Oil Conservation Division
P.O.Box 2088, State Land Office Bldg
Santa Fe, NM 87501

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 214419

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

PS Form 3811, Jan. 1978

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Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
State of New Mexico
Commissioner of Public Lands
P.O.Box 1148, Santa Fe, NM 87504-148

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 2144186

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

PS Form 3811, Jan. 1978

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☐ RESTRICTED DELIVERY
Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Amoco Production Company
P.O. Box 3092
Houston, TX 77001

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 2144187

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

PS Form 3811, Jan. 1978

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☐ RESTRICTED DELIVERY
Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Pogo Producing Company
P. O. Box 10340
Midland, TX 79702

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 2144188

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

PS Form 3811, Jan. 1978

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☐ RESTRICTED DELIVERY
Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Dorchester Exploration
1100 Midland Natl. Bank Tower
Midland, TX 79701

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 2144190

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

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☐ RESTRICTED DELIVERY
Show to whom and date delivered.
☐ RESTRICTED DELIVERY.
Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
HCW Exploration, Inc.
Suite 200, 601 N. Loraine St.
Midland, TX 79702

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
P22 2144189

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
DATE OF DELIVERY POSTMARK
ADDRESS (Complete only if requested)
UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

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Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

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Midland, TX 79702

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UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

MADDOX ENERGY CORPORATION
P. O. BOX 217
LOVING, NEW MEXICO 88256
505:745-3524

RECEIVED
JUL 20 1982

July 19, 1982

Mr. Roy Johnson
New Mexico Oil Conservation Division
Energy and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Aldredge, Signal-Federal #2
1980' FSL & 660' FWL
Sec. 23, T-25-S, R-28-E
Eddy County, New Mexico

Dear Mr. Johnson:

This letter will confirm our telephone conversation today concerning the above referenced well.

Mr. Peter Chester with the U.S.G.S. in Roswell, New Mexico, told me that he has no record showing this well was ever completed and used as a fresh water well.

I contacted the rancher and learned that she has no knowledge of a fresh water well in the area.

On Sunday, July 18, 1982, Carter Hughes (Production Supervisor for Maddox Energy Corporation) made an inspection of the area and found no visual evidence of a producing fresh water well.

I understand from our conversation that this letter will satisfy Section XI of Form C-108 previously filed by the Dallas office of Maddox Energy Corporation. If further information is required in this matter, please advise.

Sincerely,

MADDOX ENERGY CORPORATION

Rebecca A. Hughes

Rebecca A. Hughes

/rah

xc: Maddox Energy Corporation - Dallas

FLUID WASTE, INC.
1202 Bryan Circle
Carlsbad, New Mexico 88220
505:885-1007



September 14, 1984

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Gilbert Quintana

Re: Dorstate #1 SWD
Administrative Order SWD-247

Dear Mr. Quintana:

With reference to our letter dated September 7, 1984, enclosed please find copies of certified letter receipts mailed to offset lease holders and the surface owner. Also enclosed is an original Affidavit of Publication relative to the legal notice requirement of Attachment XIV "Proof of Notice."

These enclosures satisfy the requirements of Attachment XIV to our application for an Amendment to Administrative Order SWD-247.

Please process our application administratively. If additional information is needed to insure timely approval, please advise.

Sincerely,

FLUID WASTE, INC.

A handwritten signature in cursive script that reads "Rebecca A. Hughes".

Rebecca A. Hughes
Secretary/Treasurer

/rah

xc: OCD - Artesia

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

CARLSBAD CURRENT - ARGUS

P.O. BOX 1629 • CARLSBAD, NEW MEXICO 88220 • PHONE 887-5501 - AREA CODE 505

Maddox Energy Corp.
717 N. Harwood, Suite 3030
Dallas, TX 75201

HCW Exploration Dorstate
No 1 well

ATTN: George Zahn

STATEMENT

LEGAL
ADVERTISING

6709, 10

AMOUNT
ENCLOSED \$ _____

PLEASE DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,
on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

July 1, 1982
_____, 19_____
_____, 19_____
_____, 19_____
_____, 19_____

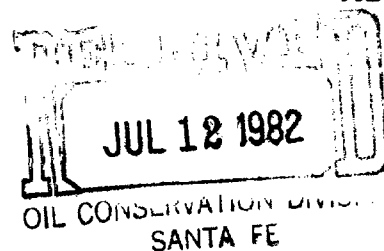
that the cost of publication is \$ 6.80,
and that payment thereof has been made
and will be assessed as court costs

E. C. Cantwell

Subscribed and sworn to before me this

6 day of July, 1982
Donella J. Jula

My commission expires 5-27-84
Notary Public.



July 1, 1982
NOTICE

MADDOX ENERGY CORPORATION, 717 N. Harwood, Suite 3030, Dallas, Texas 75201, Telephone: 214-745-1653.

The above captioned party declares that it intends to equip and operate the HCW Exploration Dorstate No. 1 well as a salt water injection well. Said well is located 1980' FNL. & 600' FEL of Section 27, T25S, R28E, Eddy County, New Mexico.

The salt water will be injected into the Delaware formation at a maximum rate of 3000 barrels per day having a pressure of 625 psig.

All interested parties must file any requests or objections for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within 15 days of publication of this notice.

MADDOX ENERGY CORPORATION

SUITE 3030

717 N. HARWOOD

DALLAS, TEXAS 75201

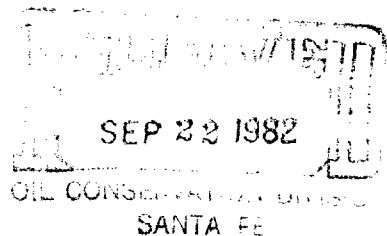
214 745-1653

*Mailed on
9-27-82*

September 20, 1982

H-27 T255 228E

Mr. Roy Johnson
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501



Dear Mr. Johnson:

Maddox Energy Corporation has recently completed its Dorstate No. 1 well for salt water disposal service as prescribed by OCC Order SWD 247. This order permits a surface pressure of 625 psi based on the multiplication of 0.2 psi/ft. times well depth.

Maddox Energy hereby requests that a surface pressure of 1082 psi be granted as the normal system pressure at an injection rate of 5760 barrels of water per day (4BPM). We expect to inject an average of 2000-3000 BWPD but feel that for efficient system utility, instantaneous rates in excess of 5000 BWPD will be required.

Enclosed is a step rate test performed by Halliburton Services on September 3, 1982 for your reference. Based on this test and the considerations and calculations performed by Maddox Energy and enclosed herewith as Table I, we request your timely approval of the 1082 psi surface operating pressure for our disposal system. Please contact Mr. Wayne Laufer of this office should you have any questions or require additional information.

Sincerely yours,

MADDOX ENERGY CORPORATION

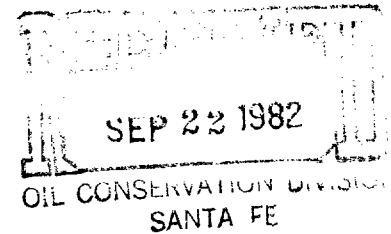
George W. Zahn
George W. Zahn
Vice President

GWZ:lt

Enclosure

*OK for 982 psi
...
to pressure ...
not now ...*

TABLE I
CONSIDERATIONS



- 2 7/8 " tubing with vinyl liner. Nominal ID - 2.38"
- Depth of deepest perforation = 3107'
- Injection rate of 5760 BWPD (4BPM)
- Halliburton Services data of 9/3/82

ISIP = 700 psi, 30 minute pressure - 500 psi
Fluid Weight = .44 psi/ft. (8.4 ppg)

<u>Minutes Pumped</u>	<u>Average Est. Rate</u>	<u>Barrels Pumped</u>	<u>Average Surface Injection Pressure</u>
18 min.	1.4 BPM	24 bbl.	500 psi
21	1.8	36	600
17	2.8	50	700
13	3.9	51	900
8	5.4	46	1150
		<u>207</u>	

ISIP = 600 psi after injection of 207 bbls.
Fluid Weight = .498 psi/ft. (9.6 ppg)

$$\text{Calculated Fracture Gradient} = \frac{600 + (3107 \times .498)}{3107} = .691 \text{ psi/ft.}$$

(Parting Pressure Gradient)

CALCULATIONS

From the attached graph it can be shown that for an injection rate of 4 BPM (5760 BWPD) a surface injection pressure of 900 psi is required with a 9.6 ppg (.498 psi/ft.) density fluid.

However, the average density of the disposal fluid will be 9.2 ppg (.478 psi/ft), or 0.02 psi/ft. less than the test fluid. This means that the corresponding hydrostatic pressure will be 62 psi less than during the Step Rate Test.

As fluid is injected during the life of the well, the perforations will tend to become plugged with minute particulate matter, resulting in increased perforation friction pressure. We plan on acidizing or backwashing the well when this increased perforation friction pressure reaches 100 psi.

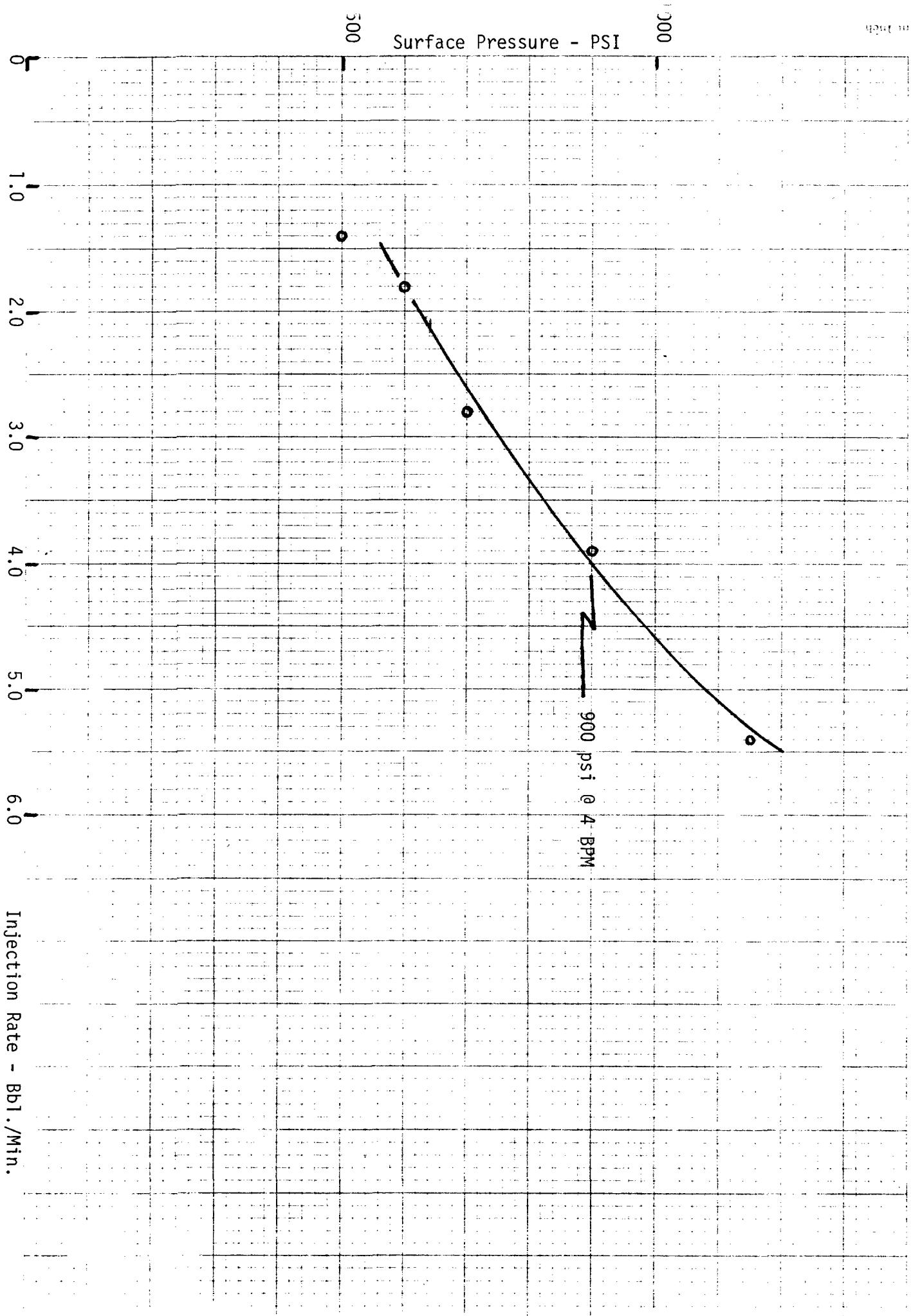
A margin of 20 psi is considered beneficial relative to the setting and efficient operation of the high pressure shut down instruments to avoid nuisance shut-downs during routine operations near the maximum pressure setting of the system.

Considering the above data and factors, the following surface operating pressure calculation at 4 BPM can be made:

Pump pressure @ 4 BPM with 9.6 ppg fluid	900 psi
Correction for hydrostatic of 9.2 ppg fluid	+ 62
Consideration for increased perforation friction	+ 100
Margin for setting high pressure shutdown	+ 20

Total 1082 psi

We feel that approval of this 1082 psi operating pressure will allow efficient system operation and conform with all aspects of the commission's disposal regulations.



JOB LOG

WELL NO. 1

SWP LEASE HALLIBURTON

TICKET NO.

436489

CUSTOMER

MADDOX

PAGE NO.

1

JOB TYPE

Spot Job

DATE

9-3-82

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BSL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	4:20	1.9	21.5	1		500		SAFETY meeting
2	4:28		16.6	1		500		START Anhib
3	4:35							START Flush
	0600							ON SPOT DALLANCE
								ON LOCATION 9-4-82
1	0715				✓	1000		PRESSURE UP ON CSG
2	0717	3.0	500	✓		800	1000	START ON 15% ACID
3	0726	3.0	100#	✓		800	1100	15% ACID IN TUBING
4	0727	4.0	1000	-		800	1200	START ON 7 1/2% ACID
5	0732	4.0	100#	✓		800	1300	DROP 100# BLOCK
6	0734	4.2	1000	✓		800	1300	START ON SECOND ACID
7	0737	4.1	100#	✓		800	1300	DROP BLOCK 100#
8	0743	4.2		✓		850	1300	BLOCK ON FORMATION
9	0743	4.2	12	✓		850		ON FLUSH
10	0746	4.3		✓		800		SHUT DOWN TO WATCH 3mi
11	0747			✓		700		ISIP
12	0812	1.4		✓		500		START PUMPING WATER 9.6 ppg
13	0835	1.9	24.1	✓		600		INCREAS PSI & RATE
14	0856	2.8	60.1	✓		700		" " " "
15	0913	3.9	110.0	✓		700		" " " "
16	0926	5.4	169			1150		" " " "
								AUG RATE 2.8
								MAX RATE 4.3
								Avg PSI 811
								MAX PSI 850
								TOTAL ACID 83.3
								TOTAL FLUSH 12.4
								TOTAL FLUID 95.3
16	0934		207.0	✓		600		SHUT DOWN
17	0935			✓				JOB COMPLETE

CUSTOMER



BRUCE KING
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

September 27, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Maddox Energy Corporation
Suite 3030
717 N. Harwood
Dallas, Texas 75201

Attention: Mr. Wayne Laufer

Re: SWD Order No. 247
Injection Pressure Increase

Dear Mr. Laufer:

Based on information and test data submitted by your letter of September 22, 1982, the maximum authorized well-head pressure for the following described well is hereby increased to 982 psi:

Dorstate Well No. 1, Unit H, Section 27, T25S, R28E

Yours very truly,

JOE D. RAMEY
Director

JDR/RJ/fd

cc: L. A. Clements
R. L. Stamets
SWD file