STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: McClellan Oil Corporation

Address: P.O. Drawer 730 Roswell,N.M. 88202

Contact party: Mitch Lee Phone: (505) 622-3200

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? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. 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.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic 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.

* 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 source 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: Mitch Lee Title Drlg.+Comp. Eng.

Signature: Mitch Lee Date: 2-24-92

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Logs were sent to B.L.M. office in Roswell after well was drilled.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division 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 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, P. O. 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.

APPLICATION FOR AUTHORIZATION TO INJECT
STEVENS FEDERAL NO. 3

I. DISPOSAL
A. Administrative approval (yes)

II. McClellan Oil Corporation
P O Drawer 730
Roswell. New Mexico 88202-0730
Contact: Mitch Lee (505) 622-3200

III. Well Data: Exhibit "A"

IV. Existing Project (No)

V. Map: Exhibit "B"

VI. There are no wells of public record within the area of review which penetrate the proposed injection zone.

VII. Proposed Operation - Exhibit "C"

VIII. None Needed

IX. Exhibit "D"

X. Exhibit "E"

XI. Exhibit "F"

XII. Exhibit "G"

XIII. Exhibit "H"

XIV. On Page 1

OIL CONSERVATION DIVISION FORM C-108

VII
EXHIBIT "C"
PROPOSED OPERATION

APPLICATION FOR AUTHORIZATION TO INJECT
STEVENS FEDERAL NO. 3

Exhibit A

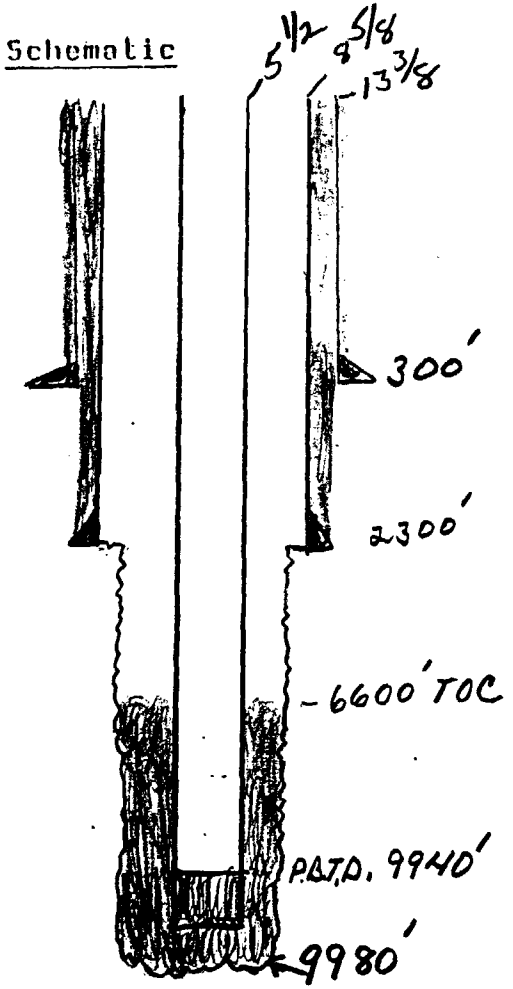
INJECTION WELL DATA SHEET SIDE 1

McClellan Oil Corp Stevens Fed #3
OPERATOR LEASE

3 2270' FSL + 520' FEL 28 13S 29E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Chaves Co., New Mexico

Schematic



Tabular Data

Surface Casing

Size 13 3/8 48# " Cemented with 315 sx.

TOC Circulated feet determined by Witness

Hole size 17 1/2"

Intermediate Casing

Size 8 5/8 24# " Cemented with 1500 sx.

TOC Circulated feet determined by Witness

Hole size 12 1/4

Long string

Size 5 1/2 17# " Cemented with 575 sx.

TOC 6600' feet determined by Cmt. Bond Log

Hole size 7 7/8

Total depth 9980'

Injection interval

9905' feet to 9940'

Tubing size 2 3/8 lined with Fiber-Glass (material) set in a

5 1/2 Uni-Six (brand and model) packer at 9845 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Clinburger

2. Name of Field or Pool (if applicable) NONE

3. Is this a new well drilled for injection? ☐ Yes ☒ No

   If no, for what purpose was the well originally drilled? Oil, out of Devonian ZONE

4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)

   Devonian - To be squeezed off + Tested.

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Lone Wolf Devonian - 9828' - 9831'

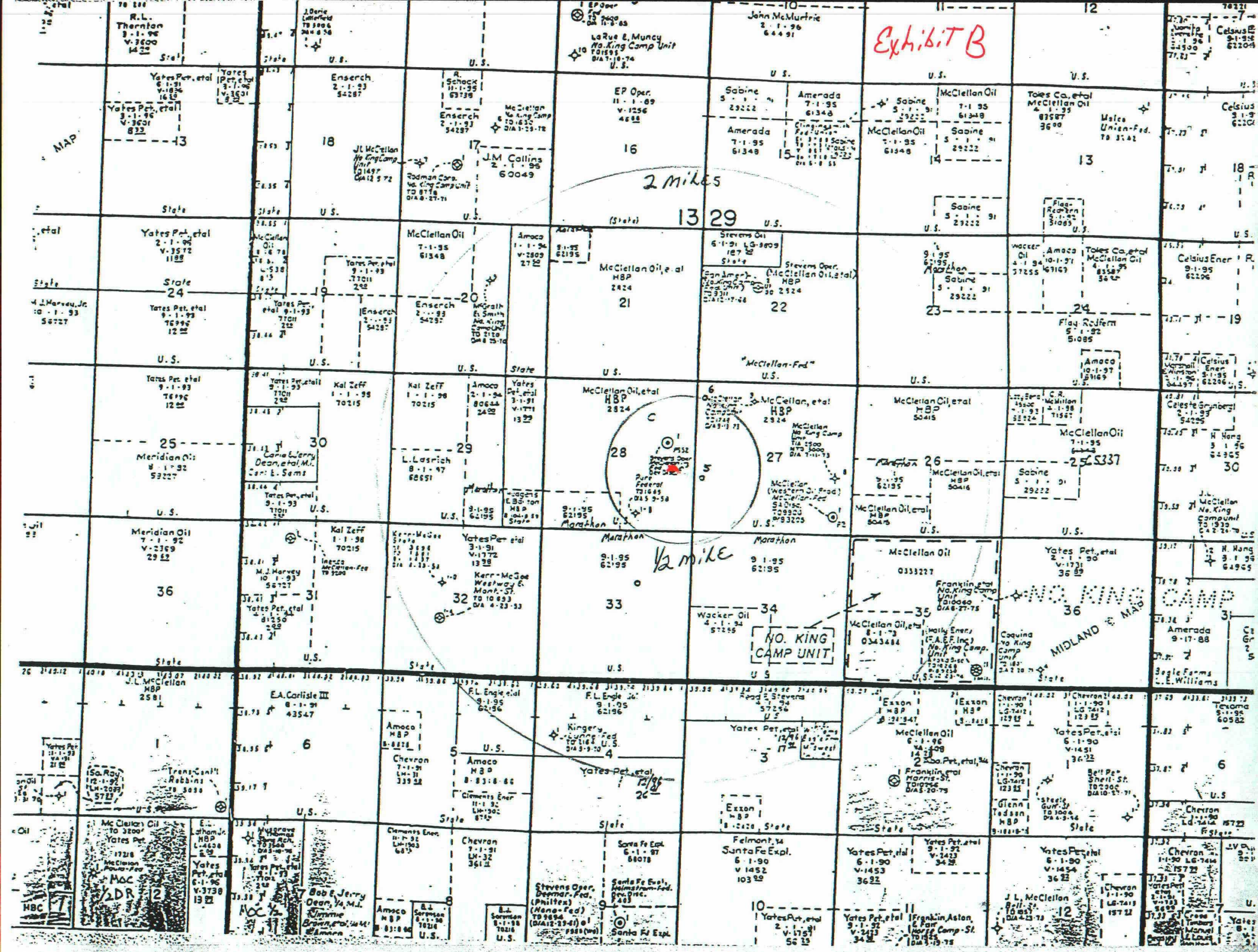


Exhibit B
2 Miles
1/2 mile
NO. KING CAMP UNIT
NO. KING CAMP
MIDLAND MAP
McClellan Oil, etal HBP 2824
McClellan-Fed
Marathon
Yates Pet, etal
McClellan Oil
Sabine
Amerada
Enserch
J.M Collins
LaRue & Muncy No. King Camp Unit
John McMurtrie
EP Oper.
Stevens Oil
Kal Zeff
L. Lasrich
Meridian Oil
Kerr-McGee
Wacker Oil
Franklin, etal No. King Camp Unit
E.A. Carlisle III
F.L. Engle, etal
Exxon
Amoco
Chevron
Santa Fe Expl.
J.L. McClellan
Celsius Ener
Flag-Redfern
R.L. Thornton

Form 3160–4
(November 1983)
(formerly 9–330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004–0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: NM-2824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Stevens Federal

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT: Lone Wolf Devonian

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.28-T13S-R29E

12. COUNTY OR PARISH: Chaves

13. STATE: NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: McClellan Oil Corporation

3. ADDRESS OF OPERATOR: P.O. Drawer 730, Roswell, NM 88202-0730

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2270' FSL & 520' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO.: | DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/25/91	12/5/91	1/15/92	3797' GL	3797'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
9980'	9940'		→	WEK#2	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 9828' to 9831' - 8 holes .4"

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: CNL-LDT, DLL Micro SFL, Sonic FMI, Cement Bond Log

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	300'	17 1/2	315 sx "C" 2% CaCL	
8 5/8	24	2300'	12 1/4	1250 sx Lite & 250 sx	C2%CaCl
5 1/2	17	9980'	7 7/8	1st stage-125 sx H	
				2nd stage-475+100 Class H	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	9740'	9740'

31. PERFORATION RECORD (*Interval, size and number*): 9828' to 9831' - .4" - 8 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9828'to9831'	1000gals 15% MCA

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
1/16/92	Pumping - Unidralic	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/31/92	24	--		51	TSTM	400	53

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
			51	TSTM	400	53

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for Fuel

TEST WITNESSED BY: Mitch Lee

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Mitch Lee TITLE Drilling & Completion Eng. DATE 2/20/92

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: NM-2824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER Squeeze Dev. & Convert to Ellenburger Injection Well

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: McClellan Oil Corporation

8. FARM OR LEASE NAME: Stevens Federal

3. ADDRESS OF OPERATOR: P.O. Drawer 730, Roswell, New Mexico 88202-0730

9. WELL NO.: 3

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2270'FSL & 520'FEL

10. FIELD AND POOL, OR WILDCAT: Lone Wolf Devonian

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 28-T13S-R29E

14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
	3797 G.L.	Chaves	NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other) Squeeze & Drill Out			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Propose to squeeze off existing perforated interval 9828' to 9831', drill out and test zone.
2. Perforate zone from 9905' to 9940' and convert said well into water disposal well.
3. All proper notification will be given prior to each procedure.

SewT 2-18-92

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Drilling and Completion DATE 2/17/92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OIL CONSERVATION DIVISION FORM C-108

VII
EXHIBIT "C"
PROPOSED OPERATION

APPLICATION FOR AUTHORIZATION TO INJECT
STEVENS FEDERAL NO. 3

1. Rate = 400+ barrels per day
2. ~~Open~~ Closed System
3. Well should be on a vaccum. Step rate test will be done if P.S.I. is required. 0 - 1000 psi.
4. Exhibit "C" Page 2.

Exhibit C
Page III

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W455 & W456-91

TO McClellan Oil Corporation

P. O. Drawer 730

Roswell, NM 88201

Date December 2, 1991

Submitted by _____ Date Rec. December 1, 1991

Well No. Steven Federal #1 Depth _____ Formation Devonian

Field _____ County _____ Source _____

	#1		Mistry H2O
Resistivity	0.200 @ 70°		0.195 @ 70°
Specific Gravity ..	1.0243 @ 70°		1.0254 @ 70°
pH	8.0		7.5
Calcium	8,250		8,550
Magnesium	820		730
Chlorides	21,000		22,000
Sulfates	200		200
Bicarbonates	610		550
Soluble Iron	0		0

Remarks:

Scott Taylor
Respectfully submitted

Analyst: Scott Taylor - EIT

HALLIBURTON SERVICES

Cv A-617 D

Stevens Federal #3
Prognosis For Making It An Injection Well

1. Pump Jet Pump up Hole
   A Put on B.O.P.

2. Unseat PKR & pull tubing out of hole
   a) Lay down - unidrolic tool and PKR

3. Run in hole w/ SVEZ Drill and set at 9788 -
   a) Run tubing and stinger in and space out.
   b) Load hole with produce H20.
   c) Set injection rate.
   d) Mix cement. 50sx "H" .3% Hallad 22A.. 3CFR-3 Followed w/50sx "H" 2% Ca CL2 - Try to establish walking squeeze. All fluid ahead is to be bullheaded. With a constant 1000 PSI on casing.
   e) Upon squeeze off. pick up out of tool and leave minimum of 15' cement on top of retainer.
   f) Wait 24 hours before attempting drilling out.

4. Drilling out cement and retainer using STAR Tool. Test casing to 1000 PSI.

5. Make sure Tbg and bit will go to 9950'. Pull out of hole.

6. Perf. well with 4 shots/FT.

7. Spot acid and break down - Acidize zone accordingly with balls.

8. Trip Tbg. out of hole, laying down. Pick up lined Tbg. and packer and run in hole. Pump PKR fluid down backside set PRK and test.

9. Flange up well head and set up for Injection test.

5 1/2 N-80 casing + J-55 17#
2 3/8 Tbg. at 9740'
Old Perfs - 9828-0831' .4" eight hole.
New Perfs - 9905' - 9940'

7 days at 1300.00/day		$ 9,100.00
Halliburton		30,000.00
STAR Tool		3,000.00
H20		350.00
Tbg. Exchange	$1.35/ft. at 9900'	18,315.00
PKR Exchange		1,000.00
PKR. man		330.00
Connections		1,000.00

Exhibit E
X

HALLIBURTON DIVISION LABORATORY
HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY REPORT

No. 35

To McClellan Oil

Drawer 730

Roswell, New Mexico

Fax 624-1900

Date 12-04-91

Submitted by Bill Nunnally Date Rec. 12-04-91

Well No. Steven Federal #3 Depth 9908 Formation Devonion

County Chaves Field Source DST #2

SAMPLE	Mud Pit	Sampler	Tool Top	1st Change	2nd. Change	Top Fluid
RESISTIVITY	0.109	0.174	0.160	0.147	0.129	0.140
SPECIFIC GRAVITY	1.0525	1.030	1.0325	1.035	1.040	1.0375
PH	8.5	6.6	6.8	6.9	8.2	7.6
CALCIUM	2400	2050				
MAGNESIUM	nil	150				
CHLORIDES	41500	23000	28000	30000	35500	33000
SULFATES	heavy	moderate				
BICARBONATES	238	860				
SOLUBLE IRON	nil	moderate				
NITRATES						
TEMPRATURE	69 °F	70 °F	70 °F	70 °F	69 °F	69 °F

SAMPLES MEASURED IN MPL

Respectfully submitted,

Analyst: Gleemak

HALLIBURTON COMPANY

cc:

By _____
CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

C
X

HALLIBURTON SERVICES

HOBBS, NEW MEXICO

To McClellan Oil Corporation

Drawer 730

Roswell, New Mexico

Fax; 624-1900 Att; Mitch Lee

Sample Number 457

Submitted by Joe Spartain/ Baker Oil Tools Date Received 12-1-91

Well No. Stevens Federal #3 Depth 9841 Formation Devonion

County Chaves Field Lone Wolf Devonion Source DST #2

	Mud Pit	Sampler	Bottom Fluid
Resistivity.....	0.109 @ 66°F	.125 @ 66°F	.118 @ 66°F
Specific Gr.....	1.060	1.0425	1.0475
pH.....	10.2	6.8	6.9
Calcium*..... Ca	2600	1850	2100
Magnesium*..... Mg	nil	480	480
Chlorides*..... Cl	44000	35000	37000
Sulfates*..... SO_4	heavy	heavy	heavy
Bicarbonates*.... HCO_3	732	1250	1055
Soluble Iron*.... Fe	nil	nil	light

	TOP FLUID	MIDDLE FLUID	SAMPLER
API Gravity Oil	53 @ 60°F	53.8 @ 60°F	54.4 @ 60°F

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: JLewis

HALLIBURTON COMPANY

By

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE

NOV 23 '91 11:21

Exhibit L
P.1/10

ILLEGIBLE

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 10
To McClellan Oil Corp.	From HRS
Co.	Co.
Dept.	Phone # (214) 418-3025
Fax # (505) 624-1700	Fax # (214) 418-3033

MCCLELLAN OIL CORPORATION

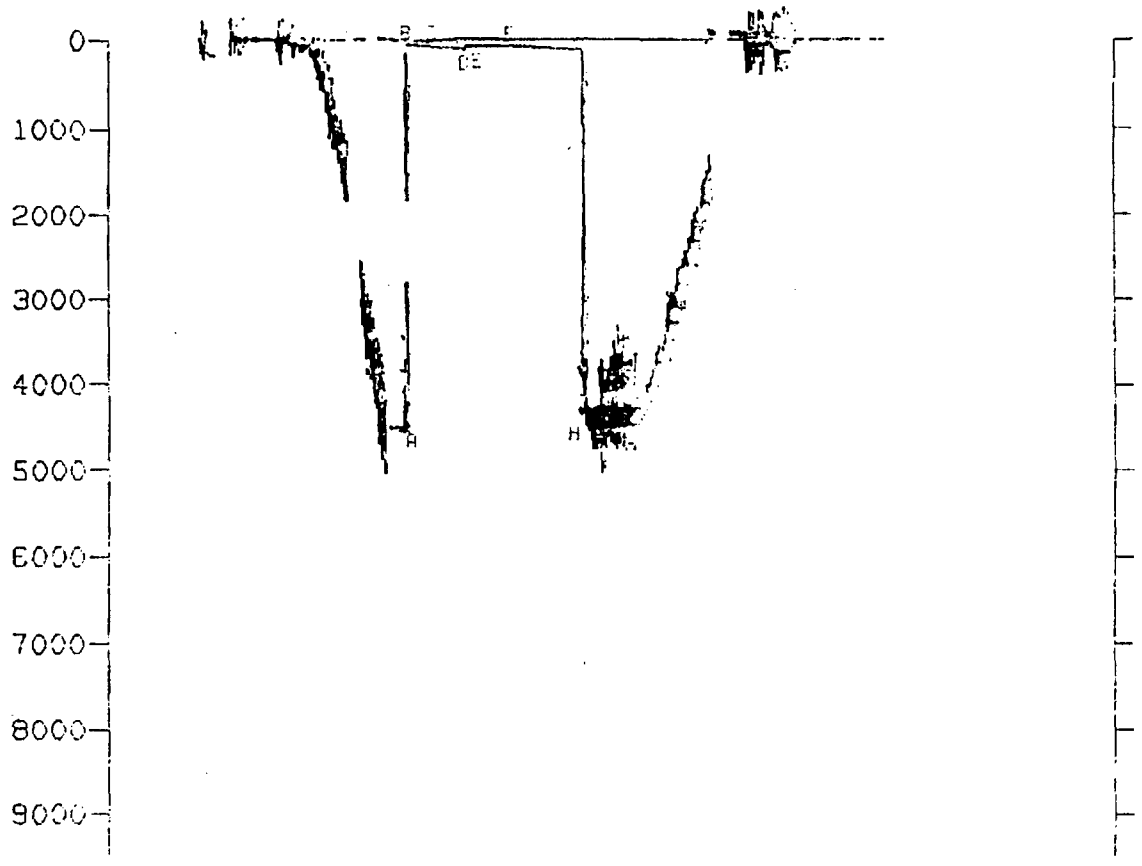
LEASE : STEVENS FEDERAL

WELL NO. : 3

TEST NO. : 1

TICKET NO. 0056490L
23-NOV-91
HOBBS

STEVENS FEDERAL | 3 | 1 | 8810.0 - 8872.0 | MCCLELLAN OIL CORPORATION
LEASE NAME | WELL NO | TEST NO | TESTED INTERVAL | LESSEE OWNER/COMPANY NAME
LEGAL LOCATION SEC - TWP - RNG: S28 T13S R29E | FIELD AREA: LONE WOLF DEVONIAN | COUNTY: CHAVES | STATE: NEW MEXICO | RC



GAUGE NO: [illegible] DEPTH: [illegible] BLANKED OFF: [illegible] HOUR OF CLOCK: [illegible]

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	[illegible]	4534.8			
B	INITIAL FIRST FLOW	[illegible]	56.4	[illegible]	[illegible]	F
C	FINAL FIRST FLOW	[illegible]	64.3			
C	INITIAL FIRST CLOSED-IN	[illegible]	64.6	[illegible]	[illegible]	I
D	FINAL FIRST CLOSED-IN	[illegible]	[illegible]			
E	INITIAL SECOND FLOW	[illegible]	71.9	[illegible]	[illegible]	F
F	FINAL SECOND FLOW	[illegible]	78.7			
F	INITIAL SECOND CLOSED-IN	[illegible]	78.9	[illegible]	[illegible]	I
G	FINAL SECOND CLOSED-IN	[illegible]	114.8			
H	FINAL HYDROSTATIC	[illegible]	4438.8			

ILLEGIBLE

EQUIPMENT & HOLE DATA

FORMATION TESTED: BIOKA
NET PAY (ft): 10.0
GROSS TESTED FOOTAGE: 112.0
ALL DEPTHS MEASURED FROM: KB
CASING PERFS. (ft): _____
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 3816.0
TOTAL DEPTH (ft): 8922.0
PACKER DEPTH(S) (ft): 8805, 8811
FINAL SURFACE CHOKE (in): _____
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.8+
MUD VISCOSITY (sec): 38
ESTIMATED HOLE TEMP. (°F): _____
ACTUAL HOLE TEMP. (°F): 134 @ 8814 ft

TICKET NUMBER: 00554901
DATE: 11-22-91 TEST NO: 1
TYPE DST: OPEN HOLE
FIELD CAMP: HOBBS
TESTER: BILL NUNNALLY
WITNESS: MITCH LEE
DRILLING CONTRACTOR: MES #2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
MUD PIT	0.055 @	58 °F	[illegible] ppm
TOP OF FLUID	0.089 @	82 °F	[illegible] ppm
SAMPLER	0.086 @	90 °F	[illegible] ppm
	@	°F	ppm
	@	°F	ppm
	@	°F	ppm

SAMPLER DATA

Psig AT SURFACE: 35.0
cu.ft. OF GAS: _____
cc OF OIL: _____
cc OF WATER: _____
cc OF MUD: 1600.0
TOTAL LIQUID cc: 1600.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ ___ °F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

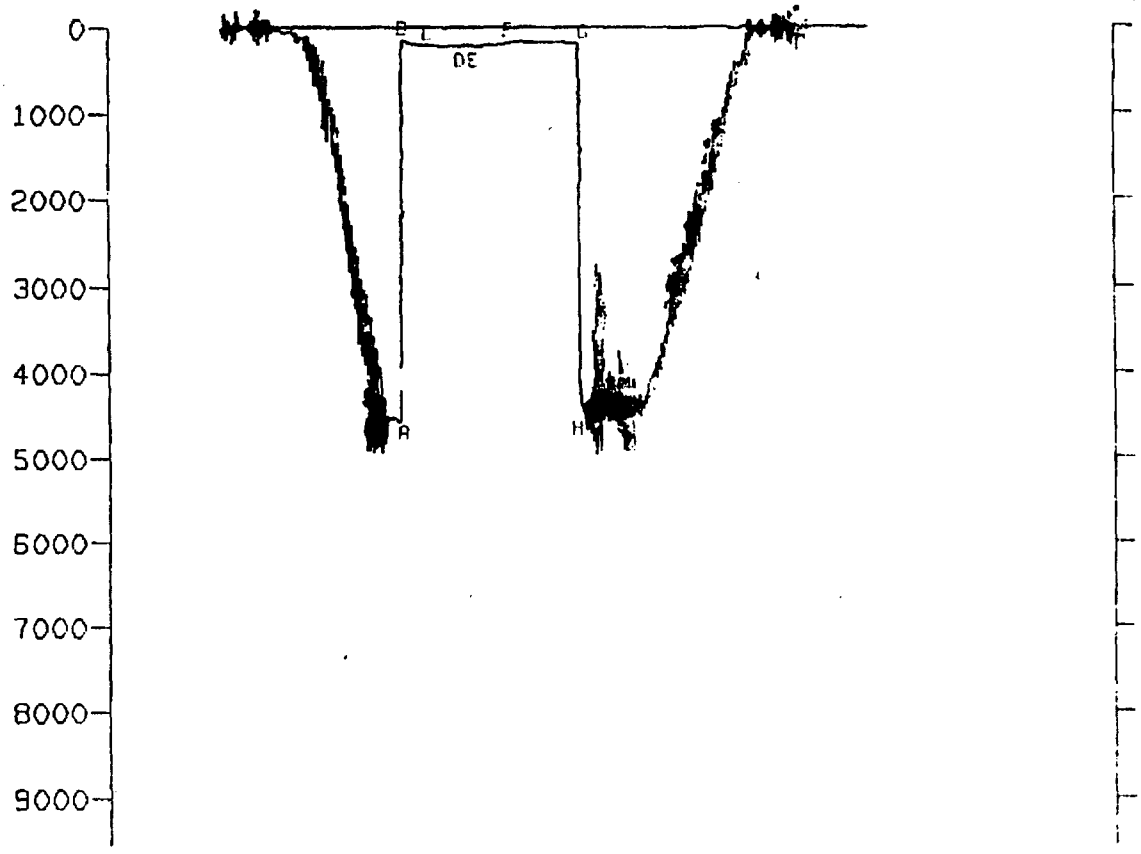
120 FEET OF DRILLING FLUID

MEASURED FROM TESTER VALVE

REMARKS:

GAUGE RESPONSE INDICATES THAT THE SHUT-IN VALVE CLOSED 1 MINUTES LATER THAN REPORTED FOR THE SECOND CLOSED IN PERIOD.
VISUAL INSPECTION OF THE CHART INDICATES A WELL-BEHAVED SUCCESSFUL TEST FOR A LOW PRODUCTIVITY FORMATION.

ILLEGIBLE



GAUGE NO: 8040 DEPTH: 8919.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		4551.3			
B	INITIAL FIRST FLOW		152.7	31.0	32.1	F
C	FINAL FIRST FLOW		202.7			
C	INITIAL FIRST CLOSED-IN		202.7	58.0	58.0	C
D	FINAL FIRST CLOSED-IN		213.0			
E	INITIAL SECOND FLOW		213.0	61.0	53.1	F
F	FINAL SECOND FLOW		167.2			
F	INITIAL SECOND CLOSED-IN		167.2	121.0	111.8	C
G	FINAL SECOND CLOSED-IN		162.5			
H	FINAL HYDROSTATIC		4503.7			

ILLEGIBLE

ILLEGIBLE

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 0056490

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-22-91					
0038					ON LOCATION
0410					PICK UP TOOLS
0450					MAKE UP TOOLS
0600					RUN IN HOLE
0845					SET WEIGHT ON PACKER
0847	BH				OPEN TOOL
0852	BH				
0857	BH				
0902	BH				
0907	BH				
0912	BH				
0913	BH				CLOSE TOOL
1015	BH				OPEN TOOL
102_	BH				
1031	BH				
1041	BH				
1051	BH				
1101	BH				
1111	BH				
1117	BH				CLOSE TOOL
1318					OPEN BYPASS
1325					JAR OFF SETTE
1400					PULL OUT OF HOLE
1810					BREAK DOWN TOOLS
1930					LEAVE LOCATION

ILLEGIBLE

TICKET NO: 00564901

CLOCK NO: 4397 HOUR: 2-

GAUGE NO: 8041

DEPTH: 8792.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
		FIRST FLOW			
B 1	0.0	58.4			
2	4.0	60.2	1.8		
3	6.0	61.1	0.9		
4	8.0	62.0	0.9		
5	10.0	62.3	0.3		
6	12.0	62.5	0.2		
7	14.0	62.8	0.3		
8	16.0	63.1	0.3		
9	18.0	63.4	0.3		
10	20.0	63.6	0.2		
11	22.0	63.9	0.3		
12	24.0	64.2	0.3		
13	26.0	64.5	0.3		
14	28.0	64.8	0.3		
15	30.0	65.0	0.2		
C 16	32.1	64.6	-0.4		
		FIRST CLOSED-IN			
C 1	0.0	64.6			
2	1.0	65.7	1.1	1.0	1.301
3	2.0	66.6	2.0	1.5	1.237
4	3.0	67.4	2.8	2.7	1.069
5	4.0	68.2	3.6	3.6	0.955
6	5.0	69.1	4.5	4.3	0.871
7	6.0	70.0	5.4	5.1	0.803
8	7.0	70.6	6.0	5.7	0.747
9	8.0	71.7	7.1	6.4	0.700
10	9.0	72.6	7.9	7.0	0.660
11	10.0	73.4	8.8	7.6	0.625
12	12.0	75.1	10.5	8.1	1.584
13	14.0	75.8	12.1	9.3	0.518
14	16.0	76.5	13.9	10.7	0.473
15	18.0	80.1	16.5	1.7	0.445
16	20.0	81.6	17.0	11.6	1.418
17	22.0	83.2	18.6	12.4	1.384
18	24.0	84.8	20.2	13.7	0.359
19	26.0	86.2	21.7	14.4	1.348
20	28.0	87.5	23.0	15.1	0.332
21	30.0	88.4	24.0	15.8	1.318
22	35.0	90.3	27.7	16.9	0.291
23	40.0	94.1	30.1	17.9	0.256
24	45.0	97.1	32.9	18.7	0.224
25	50.0	99.1	34.4	19.5	0.210
26	55.0	100.6	36.0	20.3	1.201
D 27	58.0	101.5	36.9	21.1	0.191
		SECOND FLOW			
E 1	0.0	76.8			

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
	SECOND FLOW - CONTINUED				
2	3.0	74.3	-2.1		
3	6.0	72.8	-1.6		
4	8.0	71.2	-1.6		
5	12.0	70.1	-1.1		
6	15.0	70.3	0.3		
7	18.0	70.6	0.3		
8	21.0	70.9	0.3		
9	24.0	71.1	0.2		
10	27.0	71.4	0.2		
11	30.0	71.7	0.3		
12	33.0	71.9	0.3		
13	36.0	72.2	0.3		
14	39.0	72.0	-0.2		
15	42.0	71.6	-0.4		
16	45.0	71.2	-0.3		
17	48.0	71.6	0.4		
18	51.0	72.0	0.4		
19	54.0	72.4	0.4		
20	57.0	72.8	0.4		
21	60.0	73.2	0.4		
22	63.0	73.6	0.4		
23	66.0	74.0	0.4		
F 24	68.0	75.7	0.7		
		SECOND CLOSED-IN			
F 1	0.0	75.7			
2	1.0	76.8	0.8	1.0	2.010
3	2.0	78.1	1.1	2.0	1.713
4	3.0	78.9	1.9	2.5	1.541
5	4.0	77.0	2.0	3.8	1.421
6	5.0	77.4	2.4	4.8	1.327
7	6.0	77.9	2.9	5.7	1.252
8	7.0	78.3	3.3	6.5	1.193
9	8.0	78.8	3.7	7.4	1.138
10	9.0	79.2	4.2	8.3	1.089
11	11.0	79.6	4.6	9.1	1.048
12	12.0	81.1	5.9	10.7	0.975
13	14.0	81.4	6.4	12.3	0.915
14	16.0	82.1	7.0	13.8	0.865
15	18.0	81.1	9.0	15.3	0.821
16	21.0	82.4	9.5	18.0	0.751
17	24.0	84.0	9.0	18.1	0.748
18	27.0	88.5	10.1	19.4	0.717
19	30.0	85.3	11.3	20.7	0.691
20	33.0	87.2	12.1	21.9	0.668
21	36.0	88.1	14.5	23.1	0.647
22	39.0	90.0	15.0	26.0	0.597
23	42.0	92.1	17.0	28.7	0.569
24	45.0	94.1	19.0	31.2	0.544
25	48.0	95.0	20.0	31.7	0.531
26	51.0	96.5	21.5	35.1	0.497
27	54.0	97.4	22.4	37.0	0.485

REMARKS:

TICKET NO: 00564901	GAUGE NO: 8041
CLOCK NO: 4397 HOUR: 24	DEPTH: 8732.0

	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
	SECOND CLOSED-IN - CONTINUED					
	26	70.0	101.2	28.1	41.4	0.388
	29	80.0	104.5	29.5	44.7	0.353
	30	90.0	106.2	33.1	47.6	0.327
	31	100.0	112.2	37.2	50.3	0.304
G	32	111.8	116.8	41.6	53.1	0.280

ILLEGIBLE

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

ILLEGIBLE

TICKET NO: 00564901

CLOCK NO: 27304 HOUR: 24

GAUGE NO: 8040

DEPTH: 8919.0

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
B	1	0.0	152.7			
	2	2.0	154.0	1.3		
	3	4.0	157.7	3.7		
	4	6.0	161.8	4.1		
	5	8.0	168.0	6.3		
	6	10.0	175.0	6.9		
	7	12.0	181.9	6.9		
	8	14.0	186.3	4.4		
	9	16.0	189.2	2.9		
	10	18.0	192.1	2.9		
	11	20.0	194.9	2.8		
	12	22.0	196.1	1.2		
	13	24.0	197.4	1.2		
	14	26.0	198.6	1.2		
	15	28.0	199.8	1.2		
	16	30.0	201.1	1.2		
C	17	32.1	202.7	1.6		

FIRST CLOSED-IN

C	1	0.0	202.7			
	2	1.0	203.0	0.3	1.0	1.520
	3	2.0	203.5	0.5	1.9	1.232
	4	3.0	204.3	1.8	2.7	1.068
	5	4.0	204.9	2.1	3.5	0.968
	6	5.0	205.2	2.5	4.3	0.897
	7	6.0	205.5	2.9	5.1	0.843
	8	7.0	206.0	3.3	5.7	0.797
	9	8.0	206.4	3.7	6.4	0.760
	10	9.0	206.9	4.1	7.0	0.730
	11	10.0	207.3	4.5	7.5	0.845
	12	12.0	208.1	5.4	8.7	0.600
	13	14.0	208.9	6.2	9.8	0.519
	14	16.0	209.7	7.1	10.7	0.478
	15	18.0	210.5	7.8	11.5	0.448
	16	20.0	211.1	8.4	12.3	0.415
	17	22.0	211.8	8.9	13.1	0.391
	18	24.0	212.0	9.3	13.7	0.369
	19	26.0	212.5	9.5	14.4	0.346
	20	28.0	212.5	10.0	15.0	0.331
	21	30.0	213.4	10.7	15.5	0.315
	22	35.0	214.3	11.5	16.9	0.287
	23	40.0	213.5	11.2	17.9	0.268
	24	45.0	213.5	10.9	18.7	0.254
	25	50.0	213.2	10.5	19.5	0.243
	26	55.0	212.8	10.1	20.2	0.233
D	27	58.0	213.0	10.3	20.7	0.181

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
E	1	0.0	213.0			
	2	3.0	208.7	-4.4		
	3	6.0	205.9	-2.8		
	4	9.0	204.8	-1.1		
	5	12.0	203.8	-1.1		
	6	15.0	202.7	-1.1		
	7	18.0	202.0	-0.7		
	8	21.0	201.4	-0.6		
	9	24.0	201.0	-0.4		
	10	27.0	200.7	-0.3		
	11	31.0	200.4	-0.3		
	12	33.0	200.0	-0.3		
	13	36.0	199.7	-0.3		
	14	39.1	199.4	-0.3		
	15	42.0	199.1	-0.3		
	16	45.0	198.8	-0.3		
	17	48.0	198.5	-0.3		
	18	51.0	196.7	-1.8		
	19	54.0	192.9	-3.8		
	20	57.0	189.1	-3.8		
	21	60.1	185.3	-3.8		
	22	63.1	180.1	-5.2		
	23	66.1	174.1	-6.0		
F	24	68.1	167.2	-7.0		

SECOND CLOSED-IN

F	1	0.1	167.2			
	2	1.0	167.6	0.4	1.0	2.010
	3	2.0	167.7	0.1	2.0	1.713
	4	3.0	166.7	-0.9	2.9	1.541
	5	4.0	165.8	-0.9	3.8	1.420
	6	5.0	164.8	-1.0	4.8	1.327
	7	6.0	163.5	-1.3	5.7	1.252
	8	7.0	161.8	-1.7	6.5	1.189
	9	8.0	160.7	-1.1	7.4	1.135
	10	9.0	158.4	-2.4	8.3	1.086
	11	10.1	155.7	-2.7	9.1	1.040
	12	11.1	152.2	-3.6	10.0	0.998
	13	12.1	148.6	-3.6	10.9	0.959
	14	13.1	144.8	-3.8	11.8	0.924
	15	14.1	141.1	-3.7	12.7	0.891
	16	15.1	137.4	-3.7	13.6	0.861
	17	16.1	134.0	-3.4	14.5	0.833
	18	17.1	130.5	-3.5	15.4	0.807
	19	18.1	127.2	-3.3	16.3	0.783
	20	19.1	124.0	-3.2	17.2	0.760
	21	20.1	121.0	-3.0	18.1	0.739
	22	21.1	118.3	-2.7	19.0	0.717
	23	22.1	115.8	-2.5	19.9	0.698
	24	23.1	113.4	-2.4	20.7	0.680
	25	24.1	111.2	-2.2	21.6	0.664
	26	25.1	109.2	-2.0	22.5	0.648
	27	26.1	107.3	-1.9	23.4	0.634
	28	27.1	105.6	-1.7	24.3	0.620
	29	28.1	104.0	-1.6	25.2	0.607
	30	29.1	102.5	-1.5	26.1	0.595
	31	30.1	101.1	-1.4	27.0	0.583
	32	31.1	99.8	-1.3	27.9	0.572
	33	32.1	98.6	-1.2	28.8	0.561
	34	33.1	97.5	-1.1	29.7	0.551
	35	34.1	96.4	-1.1	30.6	0.542
	36	35.1	95.4	-1.0	31.5	0.533
	37	36.1	94.5	-0.9	32.4	0.524
	38	37.1	93.6	-0.9	33.3	0.516
	39	38.1	92.8	-0.8	34.2	0.508
	40	39.1	92.0	-0.8	35.1	0.501
	41	40.1	91.3	-0.7	36.0	0.494
	42	41.1	90.6	-0.7	36.9	0.487
	43	42.1	90.0	-0.6	37.8	0.481
	44	43.1	89.4	-0.6	38.7	0.475
	45	44.1	88.8	-0.6	39.6	0.469
	46	45.1	88.3	-0.5	40.5	0.464
	47	46.1	87.8	-0.5	41.4	0.459
	48	47.1	87.3	-0.5	42.3	0.454
	49	48.1	86.9	-0.4	43.2	0.449
	50	49.1	86.5	-0.4	44.1	0.445
	51	50.1	86.1	-0.4	45.0	0.440
	52	51.1	85.7	-0.4	45.9	0.436
	53	52.1	85.4	-0.3	46.8	0.432
	54	53.1	85.1	-0.3	47.7	0.428
	55	54.1	84.8	-0.3	48.6	0.424
	56	55.1	84.5	-0.3	49.5	0.420
	57	56.1	84.2	-0.3	50.4	0.417
	58	57.1	83.9	-0.3	51.3	0.413
	59	58.1	83.7	-0.2	52.2	0.410
	60	59.1	83.4	-0.3	53.1	0.407
	61	60.1	83.2	-0.2	54.0	0.403
	62	61.1	83.0	-0.2	54.9	0.400
	63	62.1	82.8	-0.2	55.8	0.397
	64	63.1	82.6	-0.2	56.7	0.394
	65	64.1	82.4	-0.2	57.6	0.391
	66	65.1	82.2	-0.2	58.5	0.388
	67	66.1	82.0	-0.2	59.4	0.385
	68	67.1	81.8	-0.2	60.3	0.382
	69	68.1	81.6	-0.2	61.2	0.379
	70	69.1	81.5	-0.1	62.1	0.377
	71	70.1	81.3	-0.2	63.0	0.374
	72	71.1	81.2	-0.1	63.9	0.371
	73	72.1	81.0	-0.2	64.8	0.369
	74	73.1	80.9	-0.1	65.7	0.366
	75	74.1	80.7	-0.2	66.6	0.363
	76	75.1	80.6	-0.1	67.5	0.361
	77	76.1	80.5	-0.1	68.4	0.358
	78	77.1	80.3	-0.2	69.3	0.356
	79	78.1	80.2	-0.1	70.2	0.353
	80	79.1	80.1	-0.1	71.1	0.351
	81	80.1	80.0	-0.1	72.0	0.348
	82	81.1	79.8	-0.2	72.9	0.346
	83	82.1	79.7	-0.1	73.8	0.344
	84	83.1	79.6	-0.1	74.7	0.341
	85	84.1	79.5	-0.1	75.6	0.339
	86	85.1	79.4	-0.1	76.5	0.337
	87	86.1	79.3	-0.1	77.4	0.335
	88	87.1	79.2	-0.1	78.3	0.333
	89	88.1	79.1	-0.1	79.2	0.331
	90	89.1	79.0	-0.1	80.1	0.329
	91	90.1	78.9	-0.1	81.0	0.327
	92	91.1	78.8	-0.1	81.9	0.325
	93	92.1	78.7	-0.1	82.8	0.323
	94	93.1	78.6	-0.1	83.7	0.321
	95	94.1	78.5	-0.1	84.6	0.319
	96	95.1	78.4	-0.1	85.5	0.317
	97	96.1	78.3	-0.1	86.4	0.315
	98	97.1	78.2	-0.1	87.3	0.313
	99	98.1	78.1	-0.1	88.2	0.311
	100	99.1	78.0	-0.1	89.1	0.309
	101	100.1	77.9	-0.1	90.0	0.307
	102	101.1	77.8	-0.1	90.9	0.305
	103	102.1	77.7	-0.1	91.8	0.303
	104	103.1	77.6	-0.1	92.7	0.301
	105	104.1	77.5	-0.1	93.6	0.299
	106	105.1	77.4	-0.1	94.5	0.297
	107	106.1	77.3	-0.1	95.4	0.295
	108	107.1	77.2	-0.1	96.3	0.293
	109	108.1	77.1	-0.1	97.2	0.291
	110	109.1	77.0	-0.1	98.1	0.289
	111	110.1	76.9	-0.1	99.0	0.287
	112	111.1	76.8	-0.1	99.9	0.285
	113	112.1	76.7	-0.1	100.8	0.283
	114	113.1	76.6	-0.1	101.7	0.281
	115	114.1	76.5	-0.1	102.6	0.279
	116	115.1	76.4	-0.1	103.5	0.277
	117	116.1	76.3	-0.1	104.4	0.275
	118	117.1	76.2	-0.1	105.3	0.273
	119	118.1	76.1	-0.1	106.2	0.271
	120	119.1	76.0	-0.1	107.1	0.269

REMARKS:

TICKET NO: 00564901	GAUGE NO: 8040
CLOCK NO: 27304 HOUR: 24	DEPTH: 8819.0

	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
	SECOND CLOSED-IN - CONTINUED					
	25	50.0	171.0	3.8	33.5	0.481
	26	55.0	171.9	4.8	35.6	0.453
	27	60.0	172.8	5.6	37.7	0.429
	28	70.0	174.4	7.2	41.4	0.388
	29	80.0	176.0	8.8	44.7	0.355
	30	90.0	178.2	11.0	47.6	0.327
	31	100.0	181.4	14.2	50.3	0.304
G	32	111.8	182.6	15.5	53.1	0.280

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

ILLEGIBLE

REMARKS:

TICKET NO. 0056490i

		O.D.	I.D.	LENGT-	DEPTH
1	DRILL PIPE	4.500	3.826	6311.(	
1	DRILL PIPE	4.500	3.640	160(	
3	DRILL COLLARS	6.250	2.500	541	
50	IMPACT REVERSING SUB	6.000	2.750	1.(	8652.0
3	DRILL COLLARS	6.250	2.500	125.(	
5	CROSSOVER	6.000	2.562	1.(	
13	DUAL CIP SAMPLER	5.000	0.670	7.(	
60	HYDROSPRING TESTER	5.000	(75.	5.(	8790.0
80	RP RUNNING CASE	5.000	2.250	4.(	8792.0
15	JAR	5.000	1.750	5.(	
18	VP SAFETY JOINT	5.000	1.000	3.(	
70	OPEN HOLE PACKER	7.000	1.53(	5.(	8805.0
70	OPEN HOLE PACKER	7.000	1.53(	5.(	8810.(
15	ANCHOR PIPE SAFETY JOINT	5.750	1.500	4.(	
5	CROSSOVER	5.750	2.500	1.(	
3	DRILL COLLARS	6.250	2.50(	62.(	
5	CROSSOVER	5.750	1.939	1.(	
20	FLUSH JOINT ANCHOR	5.750	2.000	37.(	
61	BLANKED-OFF RUNNING CASE	5.750		4.(	8915.0
	TOTAL DEPTH				8922.0

ILLEGIBLE

Exhibit E
X

Post-It™ brand fax transmittal memo 7671	# of pages ▸ 8
To MCCLELLAN OIL	From B.G. IYER
Co.	Co. HRS - DALLAS
Dept.	Phone # 214 - 418 - 3034
Fax # (505) 624-1900	Fax #

MCCLELLAN OIL CORPORATION

LEASE : STEVENS FEDERAL

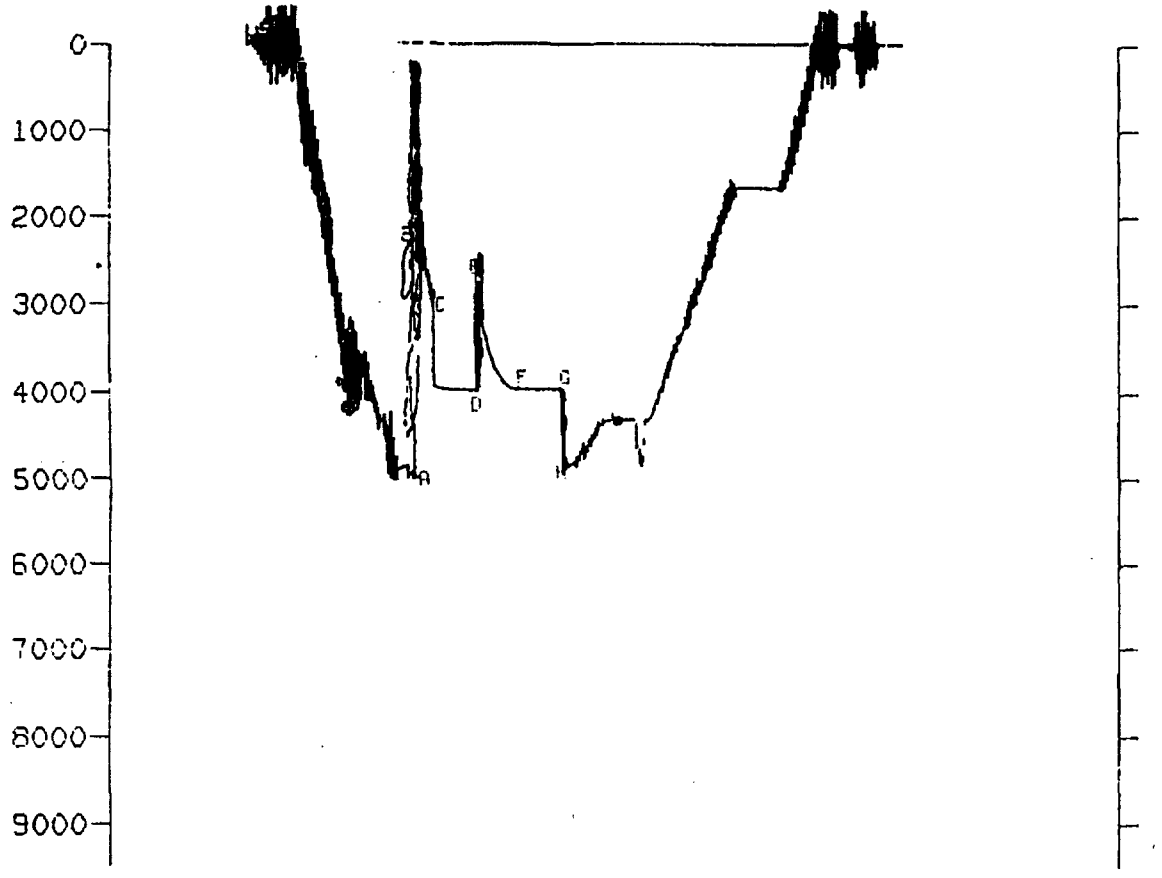
WELL NO.: 3

TEST NO.: 2

TICKET NO. 00565201
04-DEC-91
HOBBS

LEASE NAME	STEVENS FEDERAL		
WELL NO	3	TEST NO	2
LEGAL LOCATION SEC - TWP - RNG	28 - 13 S - 29 E	FIELD AREA	LONE WOLF DEVONIAN
TESTED INTERVAL	9872.0 - 9908.0		
COUNTY	CHAVEZ	STATE	NEW MEXICO
LEASE OWNER/COMPANY NAME	MCCLELLAN OIL CORPORATION		

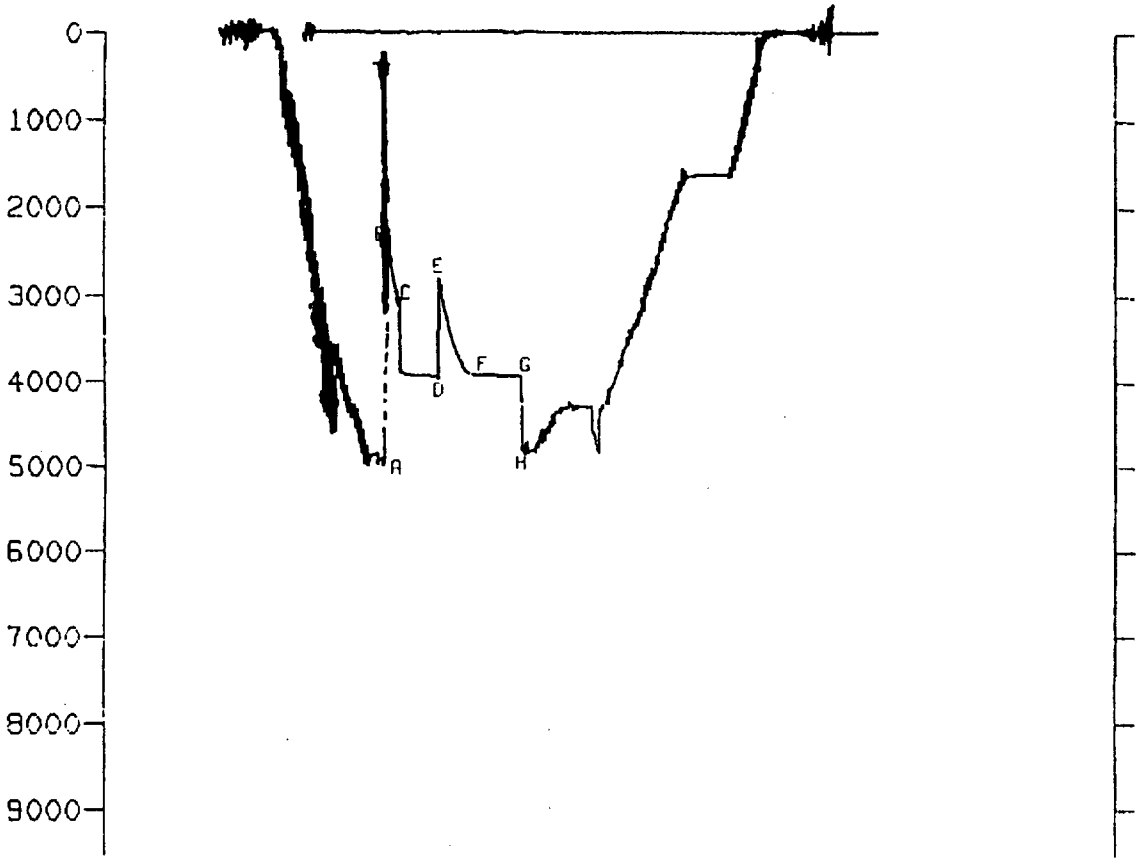
DST REPORT PRODUCED BY HRS
A DIVISION OF HALLIBURTON COMPANY



GAUGE NO: 5141 DEPTH: 9854.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4861.0				
B	INITIAL FIRST FLOW	2327.8		30.0	31.3	F
C	FINAL FIRST FLOW	3138.4				
C	INITIAL FIRST CLOSED-IN	3138.4		60.0	59.3	C
D	FINAL FIRST CLOSED-IN	3990.8				
E	INITIAL SECOND FLOW	2702.2		60.0	59.3	F
F	FINAL SECOND FLOW	3978.4				
F	INITIAL SECOND CLOSED-IN	3978.4		66.0	66.1	C
G	FINAL SECOND CLOSED-IN	3985.8				
H	FINAL HYDROSTATIC	4804.2				

ILLEGIBLE



GAUGE NO: 8040 DEPTH: 9905.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4868.0				
B	INITIAL FIRST FLOW	2433.9		30.0	31.3	F
C	FINAL FIRST FLOW	3108.5				
C	INITIAL FIRST CLOSED-IN	3108.5		60.0	59.3	C
D	FINAL FIRST CLOSED-IN	3952.2				
E	INITIAL SECOND FLOW	2797.6		60.0	59.3	F
F	FINAL SECOND FLOW	3946.8				
F	INITIAL SECOND CLOSED-IN	3946.8		66.0	66.1	C
G	FINAL SECOND CLOSED-IN	3953.5				
H	FINAL HYDROSTATIC	4821.3				

EQUIPMENT & HOLE DATA

FORMATION TESTED: DEVONIAN
NET PAY (ft):
GROSS TESTED FOOTAGE: 36.0
ALL DEPTHS MEASURED FROM: RKB
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 3816.0
TOTAL DEPTH (ft): 3908.0
PACKER DEPTH(S) (ft): 9867, 9872
FINAL SURFACE CHOKE (in): 0.25000
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.50
MUD VISCOSITY (sec): 45
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 155 @ 3904.0 ft

TICKET NUMBER: 00565201

DATE: 12-3-91 TEST NO: 2

TYPE DST: OPEN HOLE

FIELD CAMP: HOBBS

TESTER: BILL NUNNALLY

WITNESS: MITCH LEE

DRILLING CONTRACTOR: W.E.K. NO 2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
MUD PIT	0.118 @	48 °F	39140 ppm
TOP OF FLUIDS	0.139 @	58 °F	31504 ppm
FIRST FLUID CHANGE	0.156 @	54 °F	28068 ppm
SECOND FLUID CHANGE	0.135 @	74 °F	32733 ppm
TOOL TOP	0.173 @	50 °F	25235 ppm
SAMPLER	0.180 @	50 °F	24283 ppm

SAMPLER DATA

Psig AT SURFACE:
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER: 2500.0
cc OF MUD:
TOTAL LIQUID cc: 2500.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ ___ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

93 FEET OF DRILLING FLUID AND
8661 FEET OF FORMATION WATER.
8754 FEET OF TOTAL RECOVERY.

ILLEGIBLE

MEASURED FROM TESTER VALVE

REMARKS:

SLID 4 FEET OF BOTTOM WHEN TOOL WAS OPENED.
UNABLE TO READ SECOND CLOSED-IN PRESSURE FROM CHARTS CLEARLY.

READINGS FROM GAUGE #8041 ARE QUESTIONABLE DUE TO THE INABILITY IN PICKING THE EXACT TIMES OF FIRST FLOW AND SHUT-IN PERIODS FROM THE CHART.

"TIGHT HOLE" INFORMATION.

ILLEGIBLE

TYPE & SIZE MEASURING DEVICE: 6" POSITIVE CHOKE					TICKET NO: 00565291
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-3-91					
1030					ON LOCATION
1055					PICK UP TOOLS
1118					MAKE UP TOOLS
1215					RUN IN HOLE
1517	BH				OPEN TOOL, 2" IN BUCKET
1518	BH				BOTTOM OF BUCKET
1520	BH	1			
1522	BH	2			
1527	BH	3.5			
1529	0.25"	4.5			OPEN TO 0.25" CHOKE
1532	0.25"	5			
1537	0.25"	6			
1542	0.25"	6.5			
1547	0.25"	6.5			CLOSE TOOL
1647	BH				OPEN TOOL, 3" IN BUCKET
1649	BH	1			
1652	0.25"	2.5			OPEN ON 0.25" CHOKE
1657	0.25"	3			
1707	0.25"	2.75			
1717	0.25"	1.5			
1722	0.25"	5 OZ			
1732	0.25"				0.5" IN BUCKET
1737	0.25"				NO FLOW
1747	0.25"				NO FLOW, CLOSE TOOL
1853					OPEN BYPASS
1900					PULL OUT OF HOLE, 11 STANDS
					OUT, HIT TOP OF FLUID
2002					DROP BAR
2008					SHEARED PINS, STARTED
					REVERSING OUT
2255					SUSPEND PULLING OUT OF HOLE
					DUE TO WORK ON THE RIG
12-4-91					
0010					CONTINUED PULLING OUT OF HOLE
0200					BROKE DOWN TOOLS

ILLEGIBLE

TICKET NO: 00565201	GAUGE NO: 8041
CLOCK NO: 27304 HOUR: 24	DEPTH: 9854.0

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	2327.8			
C	2	31.3	3138.4	810.7		
			FIRST CLOSED-IN			
C	1	0.0	3138.4			
	2	1.0	3960.6	812.1	1.0	1.510
	3	2.0	3953.8	815.4	1.9	1.222
	4	3.0	3956.3	817.9	2.7	1.059
	5	4.0	3958.8	820.4	3.5	0.946
	6	5.0	3961.3	822.9	4.3	0.861
	7	6.0	3963.8	825.4	5.0	0.794
	8	7.0	3965.5	827.0	5.7	0.738
	9	8.0	3965.8	827.4	6.4	0.692
	10	9.0	3967.5	829.0	7.0	0.651
	11	10.0	3969.1	830.7	7.6	0.618
	12	12.0	3971.0	832.6	8.7	0.558
	13	14.0	3973.0	834.5	9.7	0.510
	14	16.0	3974.9	836.4	10.6	0.471
	15	18.0	3976.6	838.1	11.4	0.438
	16	20.0	3977.9	839.4	12.2	0.409
	17	22.0	3979.1	840.7	12.9	0.385
	18	24.0	3980.4	842.0	13.5	0.363
	19	26.0	3981.8	843.4	14.2	0.343
	20	28.0	3982.9	844.5	14.8	0.326
	21	30.0	3983.8	845.4	15.3	0.311
	22	35.0	3984.6	846.2	16.5	0.278
	23	40.0	3985.2	846.7	17.6	0.251
	24	45.0	3985.8	847.3	18.5	0.229
	25	50.0	3986.3	847.9	19.3	0.211
	26	55.0	3986.9	848.4	20.0	0.196
D	27	59.3	3990.8	852.3	20.5	0.184
			SECOND FLOW			
E	1	0.0	2702.2			
	2	12.0	3301.1	598.9		
	3	15.0	3392.2	91.1		
	4	18.0	3488.4	96.2		
	5	21.0	3575.8	87.4		
	6	24.0	3647.1	71.3		
	7	27.0	3713.0	65.9		
	8	30.0	3769.4	56.4		
	9	33.0	3816.7	47.3		
	10	36.0	3857.7	41.0		
	11	39.0	3891.6	33.9		
	12	42.0	3919.9	28.4		
	13	45.0	3942.6	22.7		
	14	48.0	3954.3	11.7		
	15	51.0	3966.1	11.7		

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			SECOND FLOW - CONTINUED			
	16	54.0	3972.7	6.6		
	17	57.0	3975.6	2.9		
F	18	59.3	3978.4	2.7		
			SECOND CLOSED-IN			
F	1	0.0	3978.4			
	2	3.0	3980.2	1.8	2.9	1.495
	3	4.0	3980.3	2.0	3.8	1.374
	4	5.0	3980.5	2.1	4.7	1.282
	5	6.0	3980.7	2.3	5.6	1.207
	6	7.0	3980.8	2.5	6.5	1.145
	7	8.0	3981.0	2.6	7.4	1.091
	8	9.0	3981.2	2.8	8.2	1.044
	9	10.0	3981.3	3.0	9.0	1.003
	10	12.0	3981.7	3.3	10.6	0.932
	11	14.0	3982.0	3.6	12.1	0.874
	12	16.0	3982.4	4.0	13.6	0.824
	13	18.0	3982.7	4.3	15.0	0.781
	14	20.0	3983.0	4.7	16.4	0.743
	15	22.0	3983.4	5.0	17.7	0.709
	16	24.0	3983.7	5.3	19.0	0.679
	17	26.0	3984.1	5.7	20.2	0.652
	18	28.0	3984.4	6.0	21.4	0.627
	19	30.0	3984.7	6.4	22.5	0.605
	20	35.0	3985.6	7.2	25.3	0.555
	21	40.0	3985.9	7.5	27.8	0.514
	22	45.0	3986.0	7.6	30.1	0.479
	23	50.0	3986.1	7.7	32.2	0.449
	24	55.0	3986.2	7.8	34.2	0.423
	25	60.0	3986.3	7.9	36.1	0.400
G	26	66.1	3985.8	7.5	38.2	0.375

REMARKS:

TICKET NO: 00565201

CLOCK NO: 4099 HOUR: 24

GAUGE NO: 8040

DEPTH: 9905.0

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
B	1	0.0	2433.9			
	2	18.0	2730.2	296.3		
	3	20.0	2830.0	99.8		
	4	22.0	2907.7	77.7		
	5	24.0	2993.2	85.5		
C	6	31.3	3108.5	115.3		

FIRST CLOSED-IN

C	1	0.0	3108.5			
	2	1.0	3903.8	795.3	1.0	1.510
	3	2.0	3911.3	802.7	1.9	1.222
	4	3.0	3914.0	805.4	2.7	1.053
	5	4.0	3916.7	808.1	3.5	0.946
	6	5.0	3919.3	810.8	4.3	0.861
	7	6.0	3922.0	813.5	5.0	0.794
	8	7.0	3924.7	816.2	5.7	0.738
	9	8.0	3927.4	818.9	6.4	0.692
	10	9.0	3929.3	820.8	7.0	0.651
	11	10.0	3930.3	821.8	7.6	0.616
	12	12.0	3932.2	823.7	8.7	0.558
	13	14.0	3934.1	825.6	9.7	0.510
	14	16.0	3936.1	827.5	10.6	0.471
	15	18.0	3938.0	829.5	11.4	0.436
	16	20.0	3939.9	831.4	12.2	0.409
	17	22.0	3941.9	833.3	12.9	0.385
	18	24.0	3943.4	834.8	13.6	0.363
	19	26.0	3944.0	835.4	14.2	0.343
	20	28.0	3944.5	836.0	14.8	0.325
	21	30.0	3945.1	836.6	15.3	0.311
	22	35.0	3946.6	838.0	16.5	0.278
	23	40.0	3948.0	839.4	17.6	0.251
	24	45.0	3949.1	840.5	18.5	0.229
	25	50.0	3950.1	841.6	19.3	0.211
	26	55.0	3951.3	842.8	20.0	0.196
D	27	59.3	3952.2	843.7	20.5	0.184

SECOND FLOW

E	1	0.0	2797.6			
	2	6.0	3044.3	246.7		
	3	9.0	3159.9	115.2		
	4	12.0	3253.8	94.3		
	5	15.0	3359.4	105.6		
	6	18.0	3445.0	85.6		
	7	21.0	3526.9	81.9		
	8	24.0	3600.7	73.9		
	9	27.0	3670.8	69.9		
	10	30.0	3728.3	57.8		
	11	33.0	3780.8	52.4		

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
	SECOND FLOW - CONTINUED					
	12	36.0	3825.4	44.7		
	13	39.0	3858.2	32.8		
	14	42.0	3886.4	28.2		
	15	45.0	3906.3	19.9		
	16	54.0	3937.6	31.3		
	17	57.0	3941.2	3.6		
F	18	59.3	3946.8	5.6		

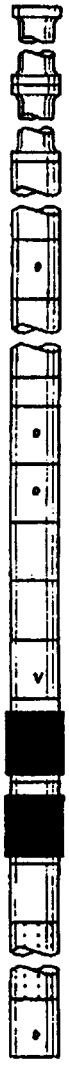
SECOND CLOSED-IN

F	1	0.0	3946.8			
	2	1.0	3943.7	-3.1	1.0	1.982
	3	2.0	3944.0	-2.8	2.0	1.666
	4	3.0	3944.2	-2.5	2.9	1.495
	5	4.0	3944.5	-2.2	3.8	1.374
	6	5.0	3944.8	-1.9	4.7	1.282
	7	6.0	3945.1	-1.6	5.6	1.207
	8	7.0	3945.4	-1.3	6.5	1.145
	9	8.0	3945.7	-1.1	7.4	1.091
	10	9.0	3946.0	-0.8	8.2	1.044
	11	10.0	3946.3	-0.5	9.0	1.003
	12	12.0	3946.9	0.1	10.6	0.932
	13	14.0	3947.5	0.7	12.1	0.874
	14	16.0	3947.8	1.1	13.6	0.824
	15	18.0	3948.0	1.2	15.0	0.781
	16	20.0	3948.2	1.4	16.4	0.743
	17	22.0	3948.3	1.6	17.7	0.709
	18	24.0	3948.5	1.7	19.0	0.679
	19	26.0	3948.7	1.9	20.2	0.652
	20	28.0	3948.8	2.1	21.4	0.627
	21	30.0	3949.0	2.2	22.5	0.605
	22	35.0	3949.4	2.6	25.3	0.555
	23	40.0	3949.8	3.1	27.8	0.514
	24	45.0	3950.2	3.5	30.1	0.479
	25	50.0	3950.6	3.9	32.2	0.449
	26	55.0	3950.8	4.0	34.2	0.423
	27	60.0	3951.0	4.2	36.1	0.400
G	28	66.1	3953.5	6.7	38.2	0.375

ILLEGIBLE

REMARKS:

TICKET NO. 00565201



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.500	3.826	7311.0	
1	DRILL PIPE	4.500	3.640	1800.0	
3	DRILL COLLARS	6.250	2.500	666.0	
50	IMPACT REVERSING SUB	6.000	2.750	1.0	9777.0
3	DRILL COLLARS	6.250	2.500	62.0	
5	CROSSOVER	5.750	1.938	1.0	
13	DUAL CIP SAMPLER	5.000	0.870	7.0	
60	HYDROSPRING TESTER	5.000	0.750	5.0	9852.0
80	RP RUNNING CASE	5.000	2.250	4.0	9854.0
15	JAR	5.000	1.750	5.0	
16	VR SAFETY JOINT	5.000	1.000	3.0	
70	OPEN HOLE PACKER	7.000	1.530	5.0	9867.0
70	OPEN HOLE PACKER	7.000	1.530	5.0	9872.0
13	ANCHOR PIPE SAFETY JOINT	5.750	1.500	4.0	
20	FLUSH JOINT ANCHOR	5.750	3.000	25.0	
81	BLANKED-OFF RUNNING CASE	5.750		4.0	9905.0
	TOTAL DEPTH				9908.0

ILLEGIBLE

EQUIPMENT DATA

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

FEB 2 6 1992

Exhibit F

LABORATORY REPORT

No. W41 & W42-92

TO Mr. Mitch Lee

McClellan Oil Corporation

P. O. Drawer 730

Roswell, NM 88201

Date February 19, 1992

Submitted by _____ **Date Rec.** February 19, 1992

Well No. _____ **Depth** _____ **Formation** _____

Field _____ **County** _____ **Source** _____

	STORAGE TANK		DIRT TANK
Resistivity	7.03 @ 70°		4.45 @ 70°
Specific Gravity ..	1.0015 @ 70°		1.0017 @ 70°
pH	7.2		7.5
Calcium	2,335		2,428
Magnesium	1,134		1,134
Chlorides	500		700
Sulfates	1,500		1,500
Bicarbonates	366		336
Soluble Iron	0		0

Remarks:

E D Jacobson

Respectfully submitted

Analyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

OIL CONSERVATION DIVISION FORM C-108

XII
EXHIBIT "G"
DISPOSAL

APPLICATION FOR AUTHORIZATION TO INJECT
STEVENS FEDERAL NO. 3

February 18, 1992

McClellan Oil Corporation has 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.

Mitch Lee
Drilling and Completion Engineer

FEB 2 4 1992

AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico, }

I, Jean M. Pettit

Bus. Manager,

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period

of one time

..... weeks

beginning with the issue dated 21st

February, 19 92

and ending with the issue dated 21st

February, 19 92

Jean M. Pettit
Manager

Sworn and subscribed to before me

this 21st day of

February, 19 92

Marylon S. Shrader
Notary Public

My commission expires

July 21, 19 94

(Seal)

Publish February 21, 1992

Notice is hereby given that McClellan Oil Corporation, Post Office Drawer 730, Roswell, New Mexico 88202-0730, (505) 622-3200, proposes to convert the Stevens Federal #3 well located 2270' FSL & 520' FEL of Sec. 28, T13S-R29E of Chaves County, Lease Number NM-2824 to a water disposal well.

The formation to be injected into will be the Fusselman from 9905' to 9940'. A total volume of 400 Bbls/day from the Stevens Federal #1 which is located in the same section from the Devonian Pay at 0-1000 PSI.

Anyone wishing to file an objection or request a hearing must do so within fifteen (15) days with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501.

Questions or additional information may be obtained by contacting Mitch Lee at (505) 622-3200.

WATER SAMPLE ANALYSIS

RACHEL EXPLORATION CORP.

South Lone Wolf Unit Well #1

Oct. 7, 1992

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. _____

TO Bill Hanson

Date 10-7-92

Submitted by _____ Date Rec. 10-7-92

Well No. Rachel #1 Depth _____ Formation _____

Field _____ County _____ Source _____

Resistivity	0.160		
Specific Gravity ..	1.0320		
pH	8.0		
Calcium	3200		
Magnesium	485		
Chlorides	28000		
Sulfates	1000		
Bicarbonates	82.4		
Soluble Iron	0		
KCl	NONE		

Remarks:

Respectfully submitted

Analyst: Eric Jacobson

HALLIBURTON SERVICES

WATER SAMPLE ANALYSIS

MARATHON OIL COMPANY

Federal # 2

Dec. 17, 1992

UNICHEM INTERNATIONAL

P.O Box 1499 707 North Leech

Hobbs, New Mexico 88240

December 17, 1992

Marathon Oil Company
P.O. Box 2409
Hobbs , NM 88241

Attn: ~~Tony Heldum~~ ACLEN Wilson

On December 17, 1992, samples were submitted to our laboratory from Federal MOC #2 for our analyses.

Location	Sample Date	Pore Size	Ml Sample	Tot Suspended Solids, mg/l	Hydrocarbon Cmpds, mg/l	Acid Soluble mg/l	Acid Insoluble mg/l
#2	12/17/92	.45	500	21.40	.20	20.00	1.20
Acid Soluble Breakdown:							
Calcium Carbonate:						2.62	
Iron Sulfide:						17.38	

Explanation: Some FBD

If you have any questions or require further information, please contact us.

Sincerely,

Elizabeth Wesley
Senior Laboratory Technician

cc: Rod Proscenp

cc: Joe Hay
John Offutt