

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR Mainline U.S.A., Inc. 4-3-81 IRS DATE 3-2-80
Midwest Resource Management, Ltd.

4722 Broadway, Suite 242 Kansas City Missouri 64112
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease	Well number	Elevation (ground)	
Bailey	1		
WELL LOCATION (give footage from section lines)			
<u>1927</u> ft. from (N) <input checked="" type="checkbox"/> sec. line <u>1149</u> ft. from (W) <input checked="" type="checkbox"/> sec. line			
WELL LOCATION			County
Section <u>34</u>	Township <u>44</u>	Range <u>33</u>	Cass
Nearest distance from proposed location to property or lease line: <u>165</u> feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: <u>511</u> feet	
Proposed depth: <u>600'</u>	Rotary or Cable tools	Approx. date work will start <u>ASAP</u>	
Number of acres in lease: <u>80 acres</u>		Number of wells on lease, including this well, completed in or drilling to this reservoir: _____	
		Number of abandoned wells on lease: <u>3 or 4</u>	
If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned <u>3 or 4</u>	
Status of Bond			
Single Well <input type="checkbox"/> Amt. _____		Blanket Bond <input checked="" type="checkbox"/> Amt. <u>\$20,000</u> <input checked="" type="checkbox"/> ON FILE <input checked="" type="checkbox"/> ATTACHED	
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.			
Proposed casing program:		Approved casing - To be filled in by State Geologist	
amt. <u>20'</u>	size <u>7 1/2"</u>	wt./ft.	cem.
<u>TA</u>	<u>2"</u>		<u>60 sacks</u>
I, the undersigned, state that I am the <u>President</u> of the <u>Midwest Resource Management, Ltd.</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
Signature: <u>[Signature]</u>			

Permit Number: 20057
Approval Date: 2 March 80
Approved By: Wallace B. Hance
[Signature]

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED

Note: This Permit not transferable to any other person or to any other location.

WATER SAMPLES REQUIRED @:

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned for driller's signature

MAR 02 1980

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

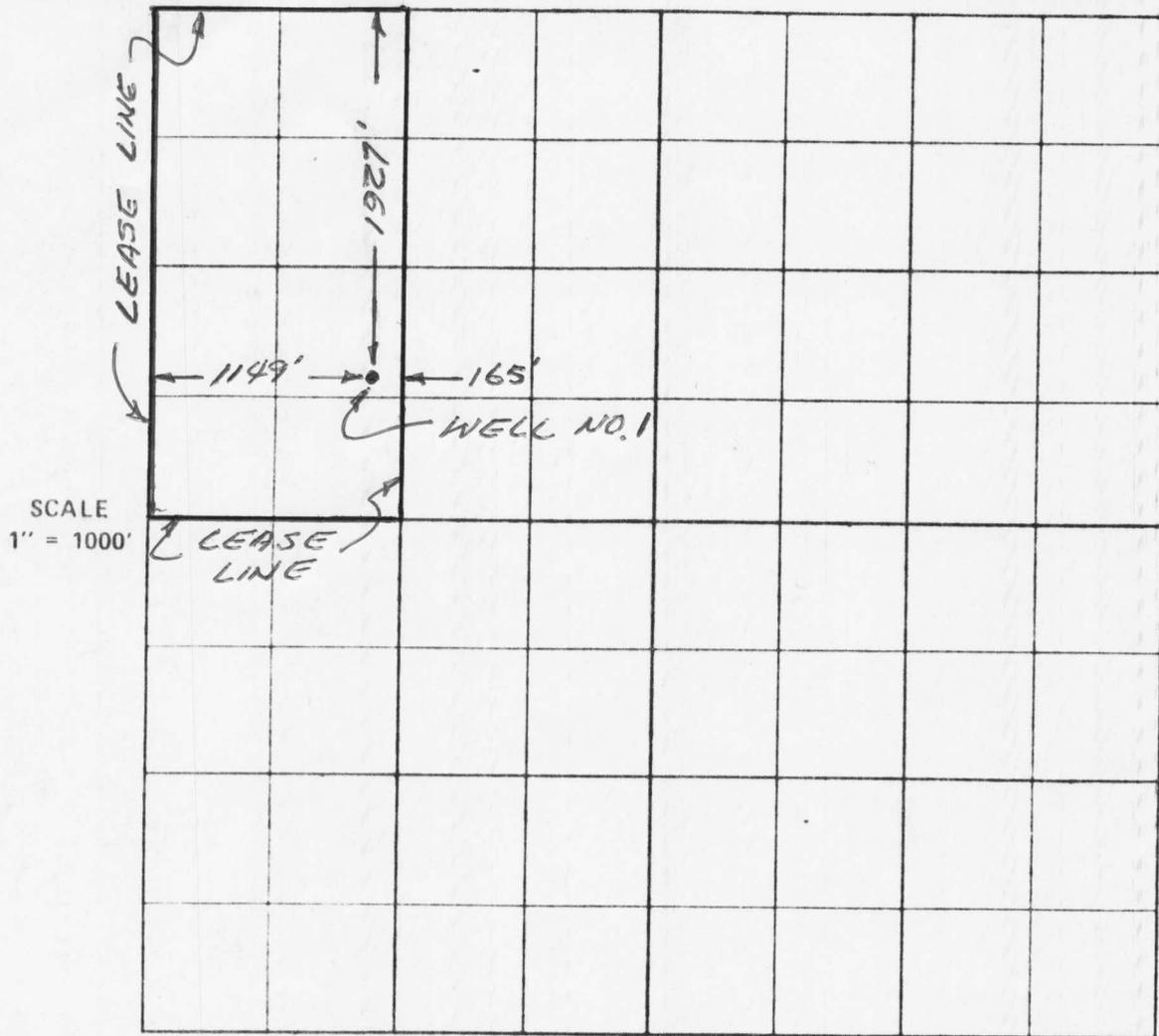
MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC - 4

Owner: Harold E. Bailey

Lease Name: Harold E. Bailey ^① County, Cass

1927 feet from (N) (S) line and 1149 feet from (E) (W) line of Sec. 34 Twp. 44 Range 33



SCALE
1" = 1000'

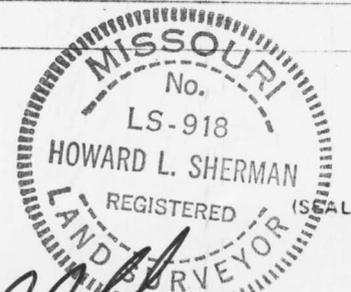
For Lessor: Carl Mitts

REMARKS: Well No. 1

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned.



Howard L. Sherman
Registered Land Surveyor

MAR 02 1980

MO. OIL & GAS COUNCIL



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

NEW WELL WORKOVER DEEPEN PLUG BACK INJECTION SAME RESERVOIR DIFFERENT RESERVOIR OIL GAS DRY

OWNER Town Oil Co. (Mainline USA)		ADDRESS 16205 W. 287 St.			
LEASE NAME Bailey		WELL NUMBER 1			
LOCATION 1927.9 FNL 1148.5 FWL			SEC. TWP. AND RANGE OR BLOCK AND SURVEY 34-44-33		
COUNTY Cass	PERMIT NUMBER (OGC-3 OR OGC-31) Unknown 20057				
DATE SPUDDED Unk	DATE TOTAL DEPTH REACHED Unk	DATE COMPLETED READY TO PRODUCE OR INJECT Unk	ELEVATION (DF, RKR, RT, OR Gr.) FEET 915	ELEVATION OF CASING HD. FLANGE FEET	
TOTAL DEPTH approx 215	PLUG BACK TOTAL DEPTH				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION			ROTARY TOOLS USED (INTERVAL) _____ TO _____		CABLE TOOLS USED (INTERVAL)
DRILLING FLUID USED _____					
WAS THIS WELL DIRECTIONALLY DRILLED? No	WAS DIRECTIONAL SURVEY MADE?	WAS COPY OF DIRECTIONAL SURVEY FILED?		DATE FILED	
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST)					DATE FILED

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)						
PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	9	6 1/4		8	1	
Completion	5 1/8	2"		206	to surface	

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
1 IN.	176 FEET	FEET	INCH	FEET	FEET		FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	2 1/8 alum	181-191	40 sx sand	180
			100 gal 15% acid	

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) pumping					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST bbls.	GAS PRODUCED DURING TEST MCF	WATER PRODUCED DURING TEST bbls.	OIL GRAVITY	API (CORR.)
TUBING PRESSURE	CASING PRESSURE	CAL'ATED RATE OF PRODUCTION PER 24 HOURS		OIL bbls.	GAS MCF	WATER bbls.	GAS OIL RATIO
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)							

RECEIVED
JUN 09 1995
Oil & Gas Council

METHOD OF DISPOSAL OF MUD PIT CONTENTS
Covered with dirt

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE partner Town Oil Co. OF THE _____ COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

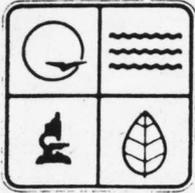
DATE 5-30-95	SIGNATURE <i>Lester Town</i>
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

FORM OGC-7

OWNER Town Oil Co.		ADDRESS 16205 W. 287 St. Paola, KS. 66071			
NAME OF LEASE Bailey		WELL NUMBER 1	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) Unknown 20057		
LOCATION OF WELL 1927.9' FNL 1148.5' FWL		SEC-TWP-RNG OR BLOCK & SURVEY 34-44-33	COUNTY Cass		
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF: Mainline USA		HAS THIS WELL EVER PRODUCED OIL OR GAS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBLS/DAY) 1 GAS (MCF/DAY)		DRY?
DATE ABANDONED 5-10-95	TOTAL DEPTH approx 215	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBLS/DAY) .25 GAS (MCF/DAY)		WATER (BBLS/DAY)	
Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.		Fluid content of each formation		Depth interval of each formation	
		Oil & water		181-191	
				Filled to surface with 4 sx cement	
SIZE PIPE	PUT IN WELL (FT)	PULLED OUT (FT)	LEFT IN WELL (FT)	GIVE DEPTH AND METHOD OF PARTING CASING (SHOT, RIPPED, ETC.)	PACKERS AND SHOES
1"	180	180	0	0	
2"	206	3	203		
WAS WELL FILLED WITH MUD-LADEN FLUID? Yes			INDICATE DEEPEST FORMATION CONTAINING FRESH WATER N/A		
NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
NAME		ADDRESS		DIRECTION FROM THIS WELL	
				RECEIVED JUN 09 1995 Oil & Gas Council	
METHOD OF DISPOSAL OF MUD PIT CONTENTS Covered with dirt					
NOTE	FILE THIS FORM IN DUPLICATE WITH (USE REVERSE SIDE FOR ADDITIONAL DETAIL)				
CERTIFICATE ▶ I, the undersigned, state that I am the <u>partner</u> of the <u>Town Oil Co.</u> (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.					
SIGNATURE <i>Lulu Town</i>					DATE 5-30-95



June 5, 1985

Mr. Lester Town
Town Oil Company
Route #4
Paola, KS 66071

Mr. Town:

On various dates the following wells were permitted to Town Oil Company.

<u>Lease Name & Number</u>	<u>Location</u>	<u>County</u>	<u>Permit Number</u>
Bauman 3-C	Sec. 31, T47N, R32W	Jackson	20731
Bauman 4-C	Sec. 31, T47N, R32W	Jackson	20732
Bauman CW-4	Sec. 31, T47N, R32W	Jackson	20733
Bauman R-14	Sec. 31, T47N, R32W	Jackson	20727
Bauman P-12	Sec. 31, T47N, R32W	Jackson	20699
Bauman P-14	Sec. 31, T47N, R32W	Jackson	20700
Bauman N-16	Sec. 31, T47N, R32W	Jackson	20698
Bauman R-16	Sec. 31, T47N, R32W	Jackson	20726
Bauman T-12	Sec. 31, T47N, R32W	Jackson	20655
Bauman T-10	Sec. 31, T47N, R32W	Jackson	20656
Bauman 3B	Sec. 31, T47N, R32W	Jackson	20730
Walton 27	Sec. 4, T46N, R33W	Cass	20380
Walton 28	Sec. 4, T46N, R33W	Cass	20381
Bailey 1	Sec. 34, T44N, R33W	Cass	20057
Bailey 2	Sec. 34, T44N, R33W	Cass	20058

I have not received a plugging report (OGC-7) or a completion report (OGC-5) on these wells. If these wells have not been drilled, let me know. If you wish to cancel these wells, please advise.

Since this information is already overdue, please respond within 2 weeks. Attached you will find 2 excerpts from the Oil and Gas Council Rules and Regulations that pertain to your situation.

Please let me know the status of these wells and your intentions for same.

I will be looking forward to hearing from you in the near future.

Sincerely,

Bruce W. Netzler, Geologist
Economic Geology Section

BWN:lm
Enclosure

MISSOURI DEPARTMENT OF NATURAL RESOURCES
P.O. Box 250 Rolla, Missouri 65401 (314) 364-1752

John D. Ashcroft Governor
Frederick A. Brunner Director

Division of Geology and Land Survey
Wallace B. Howe Director

Permit #: 20057

Date Issued: 3.2.80

County: Cass

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 5-10-95

COMMENTS:

OCC FORMS	Date Received
1	
2	
3	8-2-80
3i	
4	3-2-80
4i	
5	
6	6-9-95
7	
8	1-9-95
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs			
Samples	chip core		
	water		
Analyses	core		

Additional Submitted Data:

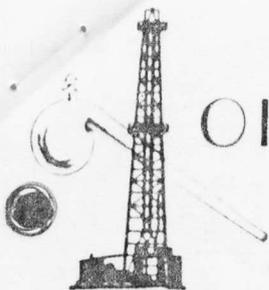
WELL Purchased by Mainline U.S.A
4-3-81

~~MIDWEST RESOURCES MANAGEMENT, LTD.~~

CORE ANALYSIS REPORT

BAILEY LEASE WELL NO. 1

CASS COUNTY, MISSOURI



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

April 16, 1980

Midwest Resources Management, Ltd.
4722 Broadway, Suite 242
Kansas City, Missouri 64112

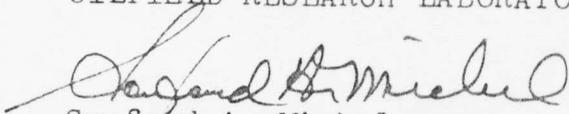
Gentlemen:

Enclosed herewith is the report of the analysis of the rotary core taken from the Bailey Lease, Well No. 1, Cass County, Missouri, and submitted to our laboratory on March 18, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/kas
4 c to Kansas City, Missouri
1 c to Mound City, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Midwest Resources Managment Ltd. Lease Bailey Well No. 1

Location W 1/2, NW 1/4

Section 34 Twp 44N Rge 33W County Cass State Missouri

Elevation, Feet - - - - -

Name of Sand - - - - - Peru

Top of Core - - - - - 115.0

Bottom of Core - - - - - 132.5

Top of Sand - - - - - 115.0

Bottom of Sand - - - - - 132.0

Total Feet of Permeable Sand - - - - - 12.5

Total Feet of Floodable Sand - - - - - 11.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 100	5.5	5.5
100 - 200	2.3	7.8
200 - 300	4.0	11.8
300 - 400	0.7	12.5

Average Permeability Millidarcys - - - - - 155.0

Average Percent Porosity - - - - - 19.5

Average Percent Oil Saturation - - - - - 46.2

Average Percent Water Saturation - - - - - 19.0

Average Oil Content, Bbls./A. Ft. - - - - - 730.

Total Oil Content, Bbls./Acre - - - - - 11,973.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - - 15.1

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - - 267.

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - - 3,074.

Total Calculated Oil Recovery, Bbls./Acre - - - - -

See "Calculated
Recovery" Section

The core was sampled and the samples sealed in plastic bags by a representative of the client. Fresh water mud was used as a drilling fluid. The core was reported to be from a non-virgin area.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
115.0 - 120.7	Dark brown calcareous sandstone.
120.7 - 126.2	Brown calcareous sandstone.
126.2 - 128.8	Hard grayish brown shaly calcareous sandstone.
128.8 - 130.1	Dark brown calcareous sandstone.
130.1 - 131.2	Hard gray shaly calcareous sandstone.
131.2 - 132.5	Grayish brown shaly calcareous sandstone.

LABORATORY FLOODING TESTS

The sand in this core responded to laboratory flooding tests, as a total recovery of 3,074 barrels of oil per acre was obtained from 11.5 feet of sand. The weighted average percent oil saturation was reduced from 51.0 to 35.9, or represents an average recovery of 15.1 percent. The weighted average effective permeability of the samples is 6.75 millidarcys, while the average initial fluid production pressure is 18.2 pounds per square inch (See Table V).

By observing the data given in Table IV, you will note that of the 16 samples tested, 11 produced water and oil. This indicates that approximately 68 percent of the sand represented by these samples is floodable pay sand.

CALCULATED RECOVERY

It would appear from a study of the core data, that efficient primary and waterflood operations in the vicinity of this well should recover approximately 5,300 barrels of oil per acre. This is an average recovery of 461 barrels per acre foot from 11.5 feet of floodable sand analyzed in this core.

These recovery values were calculated using the following data and assumptions:

Original formation volume factor, estimated	1.02
Reservoir water saturation, percent, estimated	10.0
Average porosity, percent	22.7
Oil saturation after flooding, percent	35.9
Performance factor, percent, estimated	50.0
Net floodable sand, feet	11.5

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Midwest Resources Management, Ltd. Lease Bailey Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	115.5	22.2	61	6	67	1051	296.	1.0	1.0	1051	296.00
2	116.5	25.3	50	9	59	981	221.	1.0	2.0	981	221.00
3	117.5	20.7	48	7	55	771	84.	1.0	3.0	771	84.00
4	118.5	24.5	53	22	75	1007	101.	1.0	4.0	1007	101.00
5	119.5	23.6	41	1	42	751	226.	1.0	5.0	751	226.00
6	120.5	26.1	56	9	65	1134	324.	0.7	5.7	794	226.80
7	121.5	19.0	48	3	51	708	53.	1.3	7.0	920	68.90
8	122.5	20.0	40	5	45	621	57.	1.0	8.0	621	57.00
9	123.5	5.7	36	22	58	159	99.	1.0	9.0	159	99.00
10	124.5	23.7	56	0	56	1030	280.	1.0	10.0	1030	280.00
11	125.5	21.8	58	12	70	981	20.	1.2	11.2	1177	24.00
12	126.5	16.4	42	27	69	534	Imp.	0.8	12.0	427	0.00
13	127.5	9.7	34	61	95	256	Imp.	1.0	13.0	256	0.00
14	128.5	16.6	39	42	81	502	Imp.	0.8	13.8	402	0.00
15	129.5	23.8	52	15	67	960	195.	1.3	15.1	1248	253.50
16	131.5	13.9	27	61	88	291	Imp.	1.3	16.4	378	0.00

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Midwest Resources Management, Ltd.	Lease	Bailey	Well No.	1
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	115.0 - 126.2	11.2	150.3	1683.70	
	126.2 - 132.5	1.3	195.0	253.50	
	115.0 - 132.5	12.5	155.0	1937.20	
	Depth Interval, Feet	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbl./Acre
	115.0 - 126.2	21.0	49.7	827	9,262
	126.2 - 132.5	16.4	38.8	521	2,711
	115.0 - 132.5	19.5	46.2	730	11,973

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company: Midwest Resources Management, Ltd. Lease: Bailey Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation		Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbbls./A. Ft.	%	Bbbls./A. Ft.	% Oil	% Water			
1	115.5	22.7	60	1057	25	440	35	55	286	15.49	10
2	116.5	25.0	50	970	10	194	40	46	254	3.90	15
3	117.5	21.0	48	782	14	228	34	58	83	1.12	25
4	118.5	24.3	53	999	9	170	44	47	187	2.55	20
5	119.5	24.0	41	763	11	205	30	62	294	18.99	10
6	120.5	26.0	56	1130	19	383	37	55	337	9.66	10
7	121.5	19.4	48	722	12	181	36	52	75	1.20	25
8	122.5	20.2	40	627	8	125	32	58	136	2.70	30
9	123.5	6.0	37	172	0	0	37	30	0	Imp.	-
10	124.5	24.0	56	1043	19	354	37	51	224	14.50	10
11	125.5	22.0	58	990	21	358	37	49	21	0.22	30
12	126.5	16.9	41	538	0	0	41	30	0	Imp.	-
13	127.5	10.0	34	264	0	0	34	61	0	Imp.	-
14	128.5	17.0	38	501	0	0	38	44	0	Imp.	-
15	129.5	23.4	52	944	18	327	34	63	354	7.50	15
16	131.5	14.0	27	293	0	0	27	62	0	Imp.	-

Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

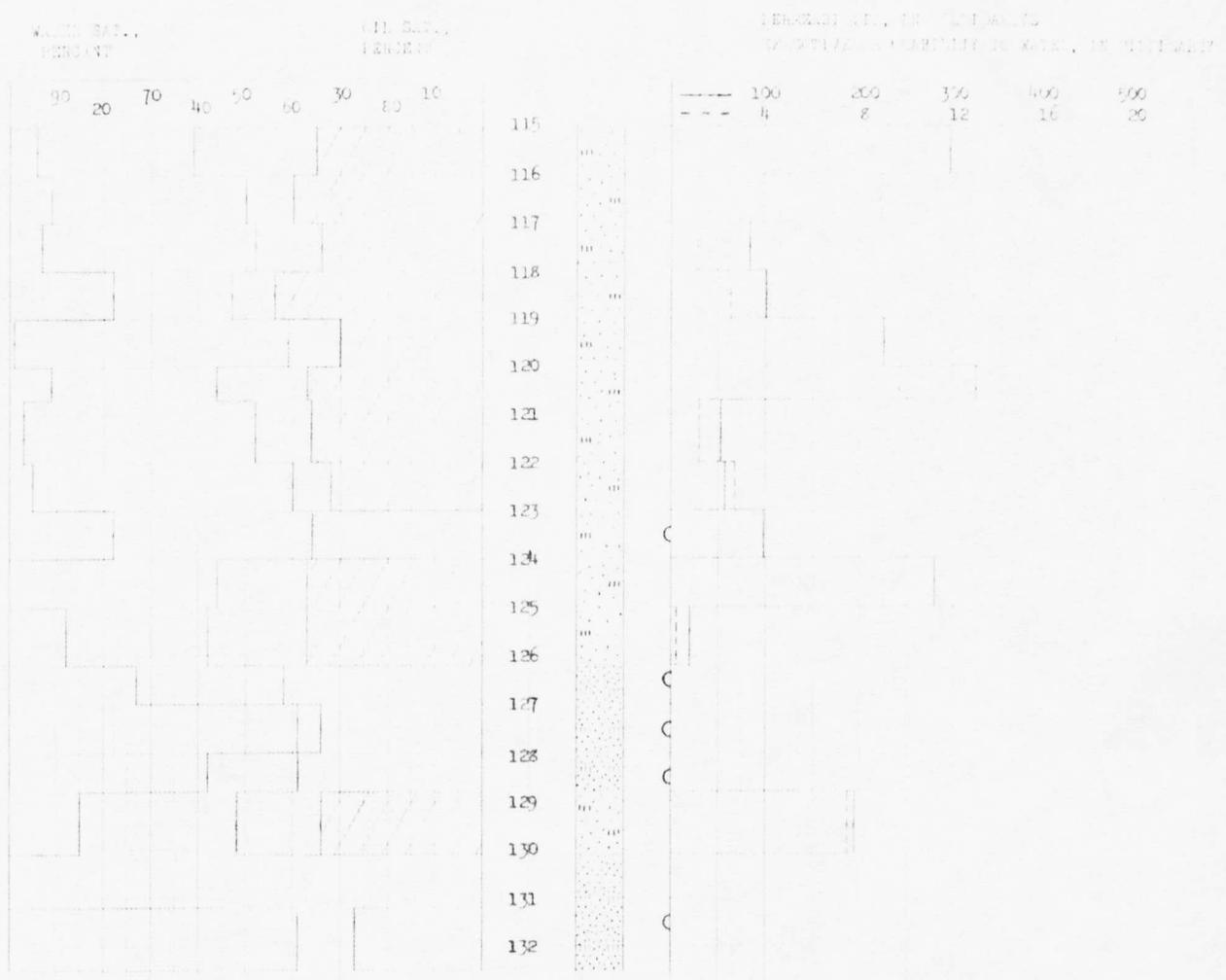
Oilfield Research Laboratories

SUMMARY OF LABORATORY FLOODING TESTS

TABLE V

Company	Midwest Resources Management, Ltd.	Lease	Bailey	Well No.	1
Depth Interval, Feet	115.0 - 126.2	126.2 - 132.5		115.0 - 132.5	
Feet of Core Analyzed	10.2	1.3		11.5	
Average Percent Porosity	22.7	23.4		22.7	
Average Percent Original Oil Saturation	50.9	52.0		51.0	
Average Percent Oil Recovery	14.7	18.0		15.1	
Average Percent Residual Oil Saturation	36.2	34.0		35.9	
Average Percent Residual Water Saturation	53.1	63.0		54.2	
Average Percent Total Residual Fluid Saturation	89.3	97.0		90.1	
Average Original Oil Content, Bbls./A. Ft.	898.	944.		903.	
Average Oil Recovery, Bbls./A. Ft.	260.	327.		267.	
Average Residual Oil Content, Bbls./A. Ft.	638.	617.		636.	
Total Original Oil Content, Bbls./Acre	9,159.	1,227.		10,386.	
Total Oil Recovery, Bbls./Acre	2,649.	425.		3,074.	
Total Residual Oil Content, Bbls./Acre	6,510.	802.		7,312.	
Average Effective Permeability, Millidarcys	6.65	7.50		6.75	
Average Initial Fluid Production Pressure, p.s.i.	18.5	15.0		18.2	

NOTE: Only those samples which recovered oil were used in calculating the above averages.



MIDWEST RESOURCES MANAGEMENT, LTD.

BAILEY LEASE

WELL NO. 1

CASS COUNTY, MISSOURI

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY	CALCULATED OIL RECOVERY BBL./ACRE
115.0 - 126.2	11.2	21.0	49.7	8.6	150.3	
126.2 - 132.5	5.2	16.4	38.8	41.4	195.0	
115.0 - 132.5	16.4	19.5	46.2	19.0	155.0	5,300 (PRIMARY & WATERFLOODING)

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 APRIL, 1980. HR