

This permit originally issued to General Energy, then owned by Emery Energy, now owned by Town Oil Co.

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK
 for an oil well or gas well

NAME OF COMPANY OR OPERATOR Town Oil Co. DATE 12/6/85
Route 4 Paola KS 66071
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease Jacke Beary Well number 56A Elevation (ground) _____

WELL LOCATION (give footage from section lines)
165 ft. from (N) (S) sec. line 385 ft. from (E) (W) sec. line

WELL LOCATION Section 4 Township 46N Range 33W County CASS

Nearest distance from proposed location to property or lease line: 165 feet
 Distance from proposed location to nearest drilling, completed or applied for well on the same lease: 220 feet

Proposed depth 670 Drilling contractor, name & address _____ Rotary or Cable Tools Approx. date work will start see note

Number of acres in lease 24.5 Number of wells on lease, including this well, completed in or drilling to this reservoir: _____
 Number of abandoned wells on lease: _____

If lease, purchased with one or more wells drilled, from whom purchased. Name _____ No. of Wells: producing _____
 Address _____ injection _____
 inactive _____
 abandoned _____

Status of Bond Single Well Amt. _____ Blanket Bond Amt. 20,000 ON FILE 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.	size	wt./ft.	cem.	amt.	size	wt./ft.	cem.
<u>650'</u>	<u>4"</u>	<u>10.4</u>	<u>yes</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>20'</u>	<u>7/8"</u>	<u>22</u>	<u>yes</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

I, the undersigned, state that I am the Partner of the Town Oil (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 Richard Town

Permit Number: 20101

Approval Date: 12/6/85

Approved By: Wallace B. Howe BWM

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

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

- Drillers log required
- E-logs required if run
- Core analysis required if run
- Drill stem test info. required if run
- Samples required
- Samples not required

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DEC 16 1985

WATER SAMPLES REQUIRED @

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.

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR General Energy, Inc. of Linco DATE 11-25-80
P.O. Box 216 Mound City Ks 66056
 Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Jack Berry</u>	Well number <u>56A</u>	Elevation (ground)	
WELL LOCATION (give footage from section lines) <u>165</u> ft. from (N) (S) sec. line <u>38.5</u> ft. from (E) (W) sec. line <u>1432-25</u>			
WELL LOCATION Section <u>4</u> Township <u>46</u> Range <u>33</u>		County <u>CASS</u>	
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>220</u> feet	
Proposed depth: <u>670</u>	Rotary or Cable tools <u>ROTARY</u>	Approx. date work will start <u>12-80</u>	
Number of acres in lease: <u>24 1/2</u>		Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>1</u> Number of abandoned wells on lease: _____	
If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>20,000</u> ⁰⁰ <input checked="" type="checkbox"/> ON FILE <input 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.	size	wt./ft.	cem.
<u>650'</u>	<u>4"</u>	<u>10.4</u>	<u>yes</u>
<u>22'</u>	<u>2 1/4"</u>	<u>22</u>	<u>yes</u>
_____	_____	_____	_____
_____	_____	_____	_____
I, the undersigned, state that I am the <u>VICE PRESIDENT</u> of the <u>GENERAL ENERGY, INC. of LINCO</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>Doug McDown</u>			

Permit Number: 20101
 Approval Date: December 1, 1980
 Approved By: Wallace B. Howe
 IRS

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 DEC 01 1980
 WATER SAMPLES REQUIRED @ OIL & GAS COUNCIL

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

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

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

Owner Emery Energy, Inc.		Address Box 519, Osawatomie, Kansas 66064	
Lease Name Jack Beary		Well Number A-56	
Location 165 ft. FNL --- 1432.25 Ft. FEL		Sec. — TWP-Range or Block & Survey Sec. 4 Twp. 46N Range 33W	
County Cass	Permit number (OGC3 number) 20101		
Date spudded 12-8-80	Date total depth reached 12-12-80	Date completed, ready to produce 1-21-80	Elevation (DF, RKB, RT or Gr.) 1065.3 feet Gr.
Total depth 640 ft.	P. B. T. D. 625.90		
Producing interval (s) for this completion 559-580		Rotary tools used (interval) From 0 to T.D. Drilling Fluid used water, air	Cable tools used (interval) From to None
Was this well directionally drilled? no	Was directional survey made? no	Was copy of directional survey filed? no	Date filed no
Type of electrical or other logs run (list logs filed with the State Geologist) Gamma Ray, Neutron, CCL			Date filed 5/25/1981

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	Amt pulled
surface	9 in.	7 in.	35	21.5		
producing	6.25 in.	4 in.	10.6	625.90	70	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2.375 in.	544 ft.	none ft.	N/A in.	N/A ft.	N/A ft.	N/A	N/A

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1	3 1/2 glass	559-568	water gel 2	Clay Stabilizer 10
		571-573	sand 20-40 20	
		580	sand 10-30 10	

INITIAL PRODUCTION

Date of first production 2-6-81		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) No record-see later production report				
Date of test no	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr.)
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

Method of disposal of mud pit contents:

CERTIFICATE: I, the undersigned, state that I am the **Vice-President** of the **Emery Energy, Inc.** (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.

Devon M. Hurst
Signature **Devon Hurst**

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JUN 04 1981

MO. OIL & GAS COUNCIL

Remit two copies: one will be returned.

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DETAIL OF FORMATIONS PENETRATED

Formation	Top Ft.	Bottom Ft.	Description*
PENNSYLVANIAN SYSTEM			
KANSAS CITY			
Iola Ls.	0	20	White to light gray limestone
Chanute Sh.	20	107	<u>Gray to green shales with gray limestone beds</u>
Cement City Sh.	66	76	Blue, gray limestone
Belton Ss.	99	107	Sandstone
Cherryvale Sh.	107	157	Gray, blue shales
Dennis Ls.			
Winterset Sh.	157	187	Gray, blue coarse limestone
Stark Sh.	187	193	Black, fissile shale
Swope Ls.			
Bethany Falls Ls.	193	215	Gray, fine to coarse limestone
Hush puckney Sh.	215	220	Black, fissile shale
Hertha Ls.	220	230	Gray to blue limestone
PLEASANTON			
Knobtown Ss.	230	410	Gray, green shales sand
Dawson Coal Hor.	238	242	Black, fissile, slaty shale
HENRIETTA			
Alamont	410	---	Gray brown, fine grained limestone with gray shale
	410	432	
Pawnee	432	468	Fine grained, light gray limestone
Peru Ss.	447	452	Sand
Myrick Sta. Ls.	463	468	Gray to brown limestone
Anna Sh.	468	463	Coal to black fissile shale
Fort Scott	473	510 ⁰⁶	Gray to green shales and limestone
Englevale Ss.	473	496	Fine to medium grained channel sandstone
CHEROKEE			
Upper Cherokee	510	---	Gray to dark shales
Upper Squirrel	526	578	Fine to medium grained sandstones
Lower Squirrel	578	602	Fine to medium grained sandstones
Bevier Coal Hor.	---	---	Black coal
Lower Cherokee			
Burbank Ss.			Sandstone, irregular
Bartlesville Ss.	602	640 TD	Shale, sandy shale, thin sandstone
Core # 1	468	488	Englevale 473.0 - 480.2
Core # 2	533	544	Squirrel Ss. 552.4 - 590.0
Core # 3	544	563	Core # 4 563-600 Core # 5 581-600

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.



EMERY ENERGY, INC.

225 North State Street
Salt Lake City, Utah 84103
(801) 531-8770

June 14, 1984

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JUN 21 1984

Missouri Department of Natural Resources
P.O. Box 250
Rolla, MO. 65401
Attn: Mr. Bruce W, Netzler, Geologist

MO. OIL & GAS COUNCIL

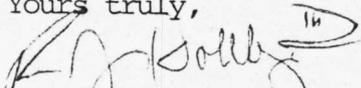
Dear Mr. Netzler,

I am in receipt of your letter requesting an interpretation of the log reports submitted to your office in 1981 by our company covering wells on the Beary Lease, Cass County, Missouri. In 1982-83 we basically shut down our operations in the Kansas/Missouri area and let the people go who were responsible for both the drilling of these wells and the Government reports. I have looked over the logs and our in-house geologist here in Salt Lake has examined it also but we are unable to come up with the answers. The fact is that no one is around who was there to observe the way the formations lay, so I don't know ~~how~~ we can clear up the matter.
how

If 3½ years hadn't passed I'd have confidence that maybe we could tack something down, but now I believe it is too late.

I'm sorry I wasn't able to help you in getting this cleared up. Please feel free to call if you have any other questions.

Yours truly,


Ron J. Hollberg, III
Production Dept.

RJH/rh



OILFIELD RESEARCH LABORATORIES

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

February 16, 1981

Emery Energy, Inc.
P. O. Box 519
Osawatomie, Kansas 66064

Gentlemen:

Enclosed herewith is the report of the analysis of the rotary cores taken from the Beary Lease, Well No. 56-A, located in Cass County, Missouri and submitted to our laboratory on December 16, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Osawatomie, Kansas

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MO. OIL & GAS COUNCIL

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Emery Energy, Inc. Lease Beary Well No. 56-A

Location _____
 Section 4 Twp. 46N Rge. 33W County Cass State Missouri

Elevation, Feet	-	-
Name of Sand	Englevale	Squirrel
Top of Core	473.0	551.0
Bottom of Core	482.0	591.0
Top of Sand	473.0	552.4
Bottom of Sand	480.2 (Tested)	590.0
Total Feet of Permeable Sand	4.8	19.9
Total Feet of Floodable Sand	-	-

Distribution of Permeable Sand:
 Permeability Range Millidarcys Feet Cum. Ft.

ENGLEVALE SAND

0 - 4	2.2	2.2
22 & Above	2.6	4.8

SQUIRREL SAND

0 - 80	5.4	5.4
105 - 300	5.7	11.1
300 - 500	6.8	17.9
500 & Above	2.0	19.9

Average Permeability Millidarcys	17.0	276.5
Average Percent Porosity	15.5	24.1
Average Percent Oil Saturation	46.0	47.4
Average Percent Water Saturation	44.1	37.4
Average Oil Content, Bbls./A. Ft.	546.	906.
Total Oil Content, Bbls./Acre	2,620.	18,931.
Average Percent Oil Recovery by Laboratory Flooding Tests	0.	12.9
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	0.	253.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	0.	3,767.
Total Calculated Oil Recovery, Bbls./Acre	0.	See "Calculated Recovery" Section

The cores were sampled and the samples sealed in plastic bags by a representative of the client. Air and water mist was used as a drilling fluid.

Since only the Squirrel Sand portion of these cores responded to flooding susceptibility tests, a calculated recovery is given for the Squirrel Sand only.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
<u>ENGLEVALE SAND</u>	
473.0 - 474.0	Brown and gray laminated slightly calcareous sandstone and shale.
474.0 - 475.1	Brown and gray laminated slightly calcareous sandstone and shale.
475.1 - 475.7	Light brown slightly calcareous sandstone.
475.7 - 476.0	Gray shale.
476.0 - 478.3	Light brown and gray laminated slightly calcareous sandstone and shale.
478.3 - 478.7	Grayish brown slightly calcareous shaly sandstone.
478.7 - 479.5	Gray sandy shale.
479.5 - 480.2	Light brown and gray laminated slightly calcareous sandstone and shale.
480.2 - 482.0	Gray shale.
<u>SQUIRREL SAND</u>	
551.0 - 552.4	Gray shale.
552.4 - 553.1	Grayish light brown slightly calcareous very shaly sandstone.
553.1 - 556.3	Gray shale.

556.3 - 559.7	Light brown and gray laminated slightly calcareous sandstone and shale.
559.7 - 561.2	Gray shale.
561.2 - 568.7	Brown slightly calcareous sandstone.
568.7 - 578.7	Brown and gray slightly calcareous conglomeratic shaly sandstone.
578.7 - 585.3	Dark brown slightly calcareous sandstone.
585.3 - 591.0	Gray slightly calcareous sandstone.

LABORATORY FLOODING TESTS

SQUIRREL SAND

The Squirrel sand in this core responded to laboratory flooding tests, as a total recovery of 3,767 barrels of oil per acre was obtained from 14.9 feet of sand. The weighted average percent oil saturation was reduced from 54.4 to 41.5, or represents an average recovery of 12.9 percent. The weighted average effective permeability of the samples is 17.42 millidarcys, while the average initial fluid production pressure is 19.2 pounds per square inch (See Table V).

By observing the data given in Table IV, you will note that of the 19 samples tested, 13 produced water and oil, and 4 samples produced water only. This indicates that approximately 68 percent of the sand represented by these samples is floodable pay sand.

CALCULATED RECOVERYSQUIRREL SAND

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 5,890 barrels of oil per acre. This is an average recovery of 395 barrels per acre foot from 14.9 feet of floodable sand analyzed in this core.

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

Original formation volume factor, estimated	1.04
Reservoir water saturation, percent, estimated	15.0
Average porosity, percent	25.3
Oil saturation after flooding, percent	41.5
Performance factor, percent, estimated	50.0
Net floodable sand, feet	14.9

Gilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Well No. 56-A

Lease Bearly

Company Emery Energy, Inc.

Perm. Capacity Ft. X md.

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	473.2	14.5	46	41	87	518	39.	1.0	1.0	518	39.00
2	474.7	15.6	39	59	98	472	3.9	1.1	2.1	519	4.29
3	475.5	23.2	50	37	87	900	22.	0.6	2.7	540	13.20
4	476.5	10.9	57	29	86	482	22.	1.0	3.7	482	22.00
5	478.5	16.7	49	37	86	635	2.6	0.4	4.1	254	1.04
6	479.7	15.7	36	57	93	439	2.7	0.7	4.8	307	1.89
<u>ENGLEVALE SAND</u>											
7	552.5	17.2	28	68	96	374	0.58	0.7	0.7	262	0.41
8	556.5	25.5	60	22	82	1187	11.	1.0	1.7	1187	11.00
9	557.4	22.3	55	30	85	952	288.	1.0	2.7	952	288.00
10	559.4	20.6	60	36	96	959	77.	1.4	4.1	1343	107.80
11	561.5	28.5	47	28	75	1039	259.	1.7	5.8	1766	440.30
12	563.7	26.6	53	27	80	1094	493.	1.6	7.4	1750	788.80
13	564.8	24.3	47	36	83	886	203.	1.0	8.4	886	203.00
14	565.8	25.0	54	28	82	1047	470.	1.0	9.4	1047	470.00
15	567.4	25.7	54	30	84	1077	387.	1.0	10.4	1077	387.00
16	569.7	17.9	21	70	91	292	4.2	1.3	11.7	380	5.46
17	570.8	28.2	59	18	77	1291	335.	1.0	12.7	1291	335.00
18	573.5	25.3	62	29	91	1217	637.	1.0	13.7	1217	637.00
19	574.3	27.4	60	20	80	1275	419.	1.0	14.7	1275	419.00
20	575.8	15.5	33	61	94	397	Imp.	1.0	15.7	397	0.00
21	578.5	21.8	42	39	81	710	105.	1.0	16.7	710	105.00
22	580.5	24.3	54	30	84	1018	384.	1.2	17.9	1222	460.80
23	582.5	27.8	59	23	82	1273	536.	1.0	18.9	1273	536.00
24	585.8	26.7	26	61	87	539	259.	1.0	19.9	539	259.00
25	589.5	24.2	19	68	87	357	49.	1.0	20.9	357	49.00
<u>SQUIRREL SAND</u>											

Oilfield Research Laboratories
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Emery Energy, Inc.	Lease	Beary	Well No.
				56-A
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
				Total Oil Content Bbbl./Acre
		<u>ENGLEVALE SAND</u>		
	473.0 - 480.2	4.8	17.0	81.42
		<u>SQUIRREL SAND</u>		
	552.4 - 590.0	19.9	276.5	5,502.57
		<u>ENGLEVALE SAND</u>		
	473.0 - 480.2	4.8		546
		<u>SQUIRREL SAND</u>		
	552.4 - 590.0	20.9	47.4	906
			37.4	18,931

Oilfield Research Laboratories

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Emery Energy, Inc.

Lease

Beary

Well No.

56-A

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.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water			
1	473.2	14.9	45	520	0	0	45	520	18	0.50	45
2	474.7	15.6	39	472	0	0	39	472	26	1.12	40
3	475.5	23.4	50	908	0	0	50	908	15	0.50	45
4	476.5	11.0	57	486	0	0	57	486	0	Imp.	-
5	478.5	16.8	49	639	0	0	49	639	11	0.60	50
6	479.7	16.2	35	440	0	0	35	440	0	Imp.	-
					<u>ENGLEVALE SAND</u>						
7	552.5	17.3	28	376	0	0	28	376	58	2.25	20
8	556.5	25.6	60	1192	21	417	39	775	316	9.30	15
9	557.4	22.3	55	952	15	260	40	692	432	12.85	15
10	559.4	20.7	60	964	20	321	40	643	210	9.37	20
11	561.5	28.3	47	1032	10	220	37	812	260	26.39	15
12	563.7	26.4	53	1085	12	246	41	839	226	10.87	20
13	564.8	24.3	47	886	5	94	42	792	416	9.45	25
14	565.8	25.2	54	1056	10	196	44	860	280	7.20	30
15	567.4	25.8	54	1081	11	220	43	861	314	4.14	20
16	569.7	18.0	21	293	0	0	21	293	376	24.63	15
17	570.8	28.1	59	1286	12	262	47	1024	462	29.99	20
18	573.5	25.1	62	1207	0	0	62	1207	0	Imp.	-
19	574.3	27.4	60	1275	18	383	42	892	358	38.98	15
20	575.8	15.0	34	396	0	0	34	396	0	Imp.	-
21	578.5	21.7	42	707	2	34	40	673	514	7.05	20
22	580.5	24.5	54	1026	13	247	41	779	422	27.85	20
23	582.5	27.8	59	1272	18	388	41	884	260	31.79	15
24	585.8	26.7	26	539	0	0	26	539	210	22.12	15
25	589.5	24.1	19	355	0	0	19	355	374	8.40	25
					<u>SQUIRREL SAND</u>						

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

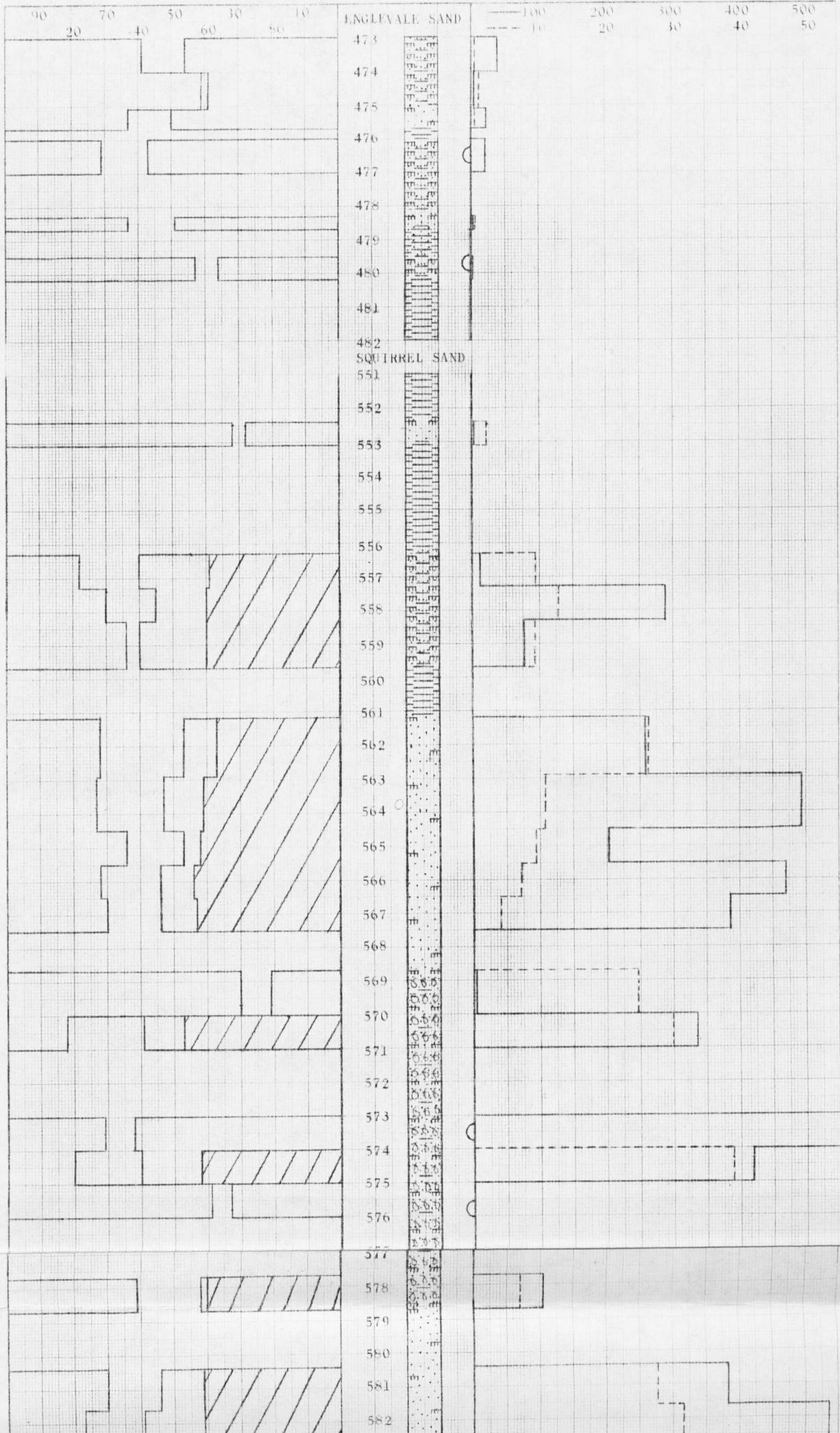
Company	Lease	Beary	Well No.
Emery Energy, Inc.	SQUIRREL SAND		56-A
Depth Interval, Feet	552.4 - 590.0		
Feet of Core Analyzed	14.9		
Average Percent Porosity	25.3		
Average Percent Original Oil Saturation	54.4		
Average Percent Oil Recovery	12.9		
Average Percent Residual Oil Saturation	41.5		
Average Percent Residual Water Saturation	48.0		
Average Percent Total Residual Fluid Saturation	89.5		
Average Original Oil Content, Bbls./A. Ft.	1,059.		
Average Oil Recovery, Bbls./A. Ft.	253.		
Average Residual Oil Content, Bbls./A. Ft.	806.		
Total Original Oil Content, Bbls./Acre	15,777.		
Total Oil Recovery, Bbls./Acre	3,767.		
Total Residual Oil Content, Bbls./Acre	12,010.		
Average Effective Permeability, Millidarcys	17.4		
Average Initial Fluid Production Pressure, p.s.i.	19.2		

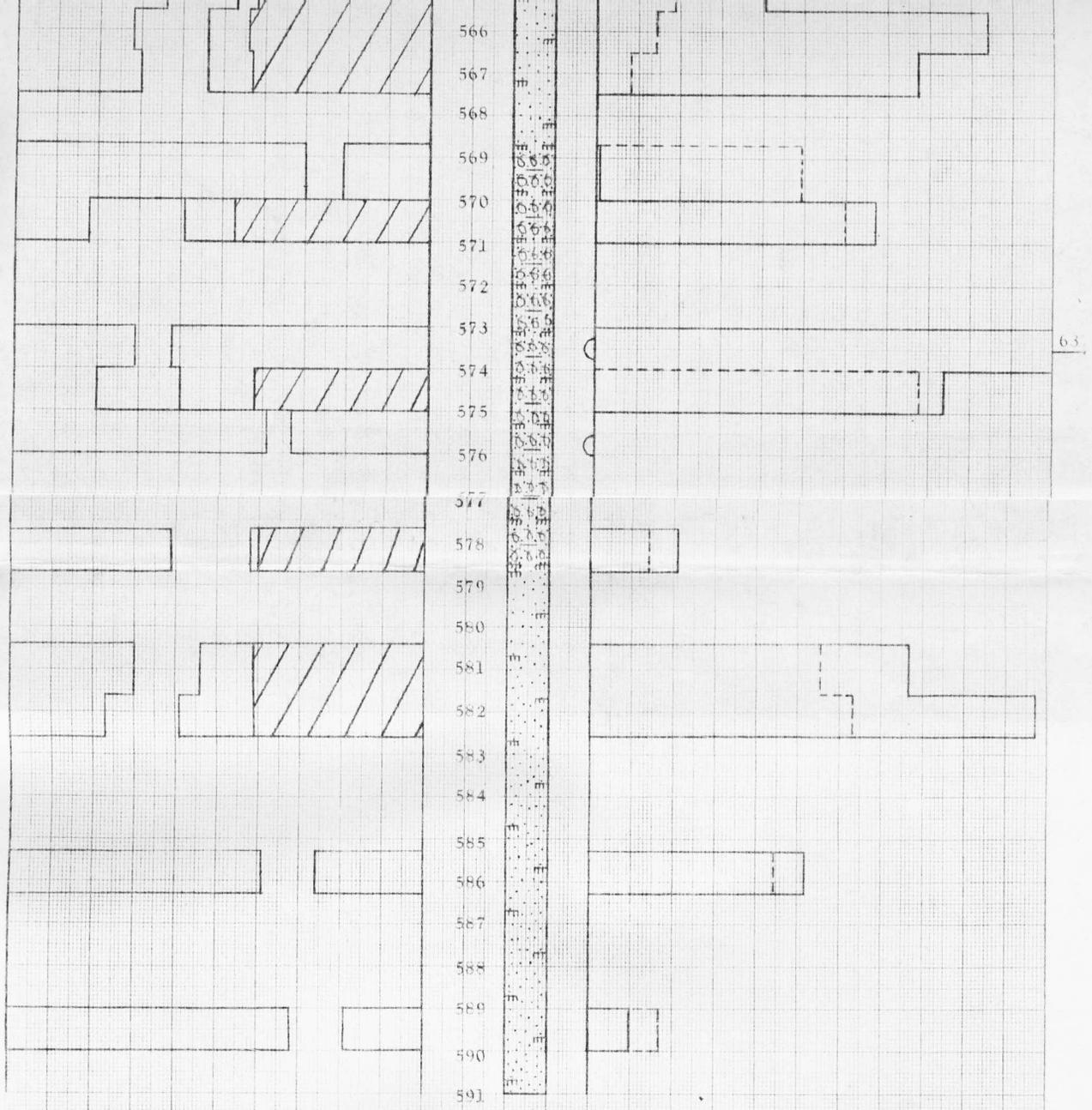
NOTE: Only those samples which recovered oil were used in calculating the above averages.

WATER SAT., PERCENT

OFF-SAT., PERCENT

PERMEABILITY, IN MILLIDARCY
EFFECTIVE PERMEABILITY TO WATER, IN MILLIDARCY





- KEY:
- LAMINATED CALCAREOUS SANDSTONE & SHALE
 - SHALE
 - SANDY SHALE
 - IMPERMEABLE TO WATER
 - FLOODPOT RESIDUAL OIL SATURATION
 - CALCAREOUS SANDSTONE
 - SHALY CALCAREOUS SANDSTONE
 - SHALY CALCAREOUS CONGLOMERATIC SANDSTONE

EMERY ENERGY, INC.

BEARY LEASE

CASS COUNTY, MISSOURI

WELL NO. 56-A

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCY	CALCULATED OIL RECOVERY BBL./ACRE
<u>ENGLEVALE SAND</u>						
473.0 - 480.2	4.8	15.5	46.0	44.1	17.0	---
<u>SQUIRREL SAND</u>						
552.4 - 590.0	20.9	24.1	47.4	37.4	276.5	5,890 (PRIMARY & WATERFLOODING)

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
FEBRUARY, 1981

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