WELL RECORD

RECD JAN 0 - 1972

Lease BARR Well No. 1

Company _____ Acres _____

Sec. 13 Twp. 8 Rge. 20 Co. Leavenworth State Ks

Location 200' SW of NW NE Elevation 1020 GL _____ KB

TOOLS	STARTED	COMPLETED	FROM	TO	CONTR.
ROTARY	11-30-71	12-2-71	0	1490	B&N
CABLE	12-14-71	12-18-71	0	1466	Woods

CASING RECORD

SIZE HOLE DRILLED / DEPTH	CASING SIZE	WT.	THD.	MAKE-TYPE GRADE NEW-USED	CASING POINT	SHOE JOINT		CEMENT SKS.	CEMENT EST. TOP	REMARKS
12 1/4" 83'	8 5/8	28#	8R	used	83			60 common 4% CCL		
7 7/8 1490'	5 1/2"	14#	8R	used	1487'	18.86'		75 60/40 Poz 10% salt		
		4	centralizers							

PERFORATING RECORD

DATE	ZONE	INTERVAL	TYPE	CHARGE	MEASURED FROM	COMPANY	REMARKS
12-14-71	Miss	1438-50	DP jet	4 SPF	GL	Perf Inc	
12-16-71	McLouth	1415-19'	DP jet	4 SPF	GL	Perf Inc.	

PLUGS SET

DATE	SET AT FT.	TYPE	SIZE	MAKE	SET BY	REMARKS
12-16-71	1434'	P-1	5 1/2"	Baker	Perf Inc	

ACIDIZING RECORD

DATE	ZONE	INTERVAL	ACID		FLUSH		OVER FLUSH	MAX. PRESS	TREAT. PRESS	REMARKS
			TYPE	AMOUNT	TYPE	AMOUNT				
12-14-71	Miss	1438-50	15%	4000	FW	30	0	250	200	5 1/2 BPM

FRACTURING RECORD

DATE	ZONE	INTERVAL	SAND		FLUID		FLUSH		MAX. PRESS	TREAT. PRESS	REMARKS
			SIZE	AMOUNT	TYPE	AMOUNT	TYPE	AMOUNT			
12-17-71	McLouth	1415-19	20/40		FWgel	3500	FW	37	1350	1100	10BPM
				3000							Sli vac 2 hrs

SQUEEZE RECORD

DATE	ZONE	INTERVAL	CEMENT		INTO. FORM.	SQUEEZE PRESS	STAGE	REMARKS
			TYPE	AMOUNT				

PACKER RECORD

DATE	ZONE	INTERVAL	TYPE	SET AT	USE	REMOVED

MATERIAL LEFT IN HOLE

DATE	REMARKS

SWABBING OR FLOWING RECORD

Compliments of DOWELL

REC'D JAN 03 1972

PAGE

DATE 12-17-71

COMPANY Barr NO. 1

(FRAC) (FRAC)
FIELD : NATURAL FLOW : AFTER SHOT : AFTER STAGE ACID: ACID LAST

STAGE GALS: AFTER TOTAL ACID (FRAC) 3500 GALS: THRU CSG. X : THRU TBG.

PERFORATION FROM 1415 TO 1419 : PACKER : AFTER SWABBING X HRS.: AFTER FLWG HRS.:

AFTER SHUT IN HRS.: GRAVITY ° AT °: GAS METER : SIZE ORIFICE MAN.

(FRAC)
TYPE ACID USED

HR	TIME PM AM	CSG PRESS	TBG PRESS	TANK NO.	GAUGE FT.	GAUGE IN.	DIFF FT.	DIFF IN.	BBLS. PER HR.	TOTAL BBLS.	CHOKE	% W	% BS	GAS M FT.	G-O	REMARKS
					Load is 145 bbls											
	12:00	0	0		0	0										
	1:00	0	0		1	5	1	5	17	17						
	2:00	0	0		2	10	1	5	17	34						
	3:00	0	0		4	4	1	6	18	52						
	4:00	0	0		5	10	1	6	18	70						
	5:00	0	0		7	2	1	4	14	84						
			Drained tank													
	12-18-71															
	9:00	140	180		0	0										
	10:00	140	0		1	5	1	5	17	101						Show of gas in fluid
	11:00	140	0		2	10	1	5	17	118						" " " "
	12:00	130	0		4	2	1	4	16	134						" " " "
	1:00	120	0		5	4	1	2	14	148						" " " "
	2:00	100	0		6	4	1	0	12	160						" " " "
	3:00	100	0		7	2		10	10	170						" " " "
	4:00	100	0		8	0		10	10	180						" " " "
	5:00	100	0		8	10		10	10	190						

CORE LABORATORIES, Inc.
Petroleum Reservoir Engineering
DALLAS 7, TEXAS

A.C. 405 JA8-2331
REPLY TO
8 NORTHWEST 42ND STREET
OKLAHOMA CITY, OKLA. 73118

April 20, 1972

Tomlinson Oil Company
200 West Douglas
Wichita, Kansas 67202

Attn: Mr. Robert Gill

Subject: Grain Density Measurements
Barr No. 1 Well
Leavenworth County, Kansas
CLI File No. CP-1-7576

Gentlemen:

Tabulated below are the results of grain density measurements which you requested on plug samples from the Cherokee formation in the subject well.

SAMPLE NO.	DEPTH	GRAIN DENSITY
1	1407.0-08.0	2.678
2	1421.0-22.0	2.711
3	1422.0-23.0	3.061 (pyritic)
4	1423.0-23.5	2.654

The original core analysis for this well is covered in our report of December 21, 1971 - CLI File No. CP-1-7517.

Thank you for this opportunity to be of service.

Very truly yours,

CORE LABORATORIES, INC.

Dale E. Boyle
Oklahoma City Laboratory Manager

DEB:es

4 cc: Addressee

SWABBING OR FLOWING RECORD

Compliments of DOWELL

PAGE _____

COMPANY BARR NO. 1 DATE 12-15-71

FIELD _____ : NATURAL FLOW _____ : AFTER SHOT _____ : AFTER _____ (FRAC) STAGE ACID: (FRAC) ACID LAST

STAGE _____ GALS: AFTER TOTAL ACID (FRAC) 4000 GALS: THRU CSG. X : THRU TBG. _____

PERFORATION FROM 1438 TO 1450 : PACKER _____ : AFTER SWABBING X HRS.: AFTER FLWG _____ HRS.:

AFTER SHUT IN _____ HRS.: GRAVITY _____ ° AT _____ °: GAS METER _____ : SIZE ORIFICE _____ MAN. _____

(FRAC) TYPE ACID USED _____

REC'D JAN 0 3 1972

HR	TIME ___M	CSG PRESS	TBG PRESS	TANK NO.	GAUGE FT.	GAUGE IN.	DIFF FT.	DIFF IN.	BBLS. PER HR.	TOTAL BBLS.	CHOKE	% W	% BS	GAS M FT.	G-O	REMARKS
				Load is 125 barrels												
	8:00	0	0		0	0										
	9:00	0	0		1	1	1	1	13	13		Well flowing, acid gas				
	10:00	25	0		1	7		6	6	19		Swabbing				
	11:00	35	0		2	1		6	6	25						
	12:00	55	0		2	8		7	7	32		Some acid gas, some natural				
	1:00	75	0		3	3		7	7	39		"		" "	"	"
	2:00	100	0		3	7		4	4	43		"		" "	"	"
	3:00	125	0		3	11		4	4	47		"		" "	"	"
	4:00	125	0		4	3		4	4	51		"		" "	"	"
			Bled off pressure													
12-16-71		200	0													
	9:00	200	0		5	6	1	3	15	66						
	10:00	150	0		6	2		8	8	74		Small amount natural gas				
	11:00	150	0		6	10		8	8	82		"		"	"	"
	12:00	140	0		7	1		5	5	87		"		"	"	"
	1:00	125	0		7	5		4	4	91		"		"	"	"
	2:00	125	0		7	7		2	2	93		"		"	"	"
	3:00	125	0		7	9		2	2	95		"		"	"	"
	4:00	125	0		7	11		2	2	97		"		"	"	"
	5:00	0	0		8	1		2	2	99		Bled off pressure				

WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Tomlinson Oil Co. Inc. Lease & Well No. Barr #1

Elevation 1020 Ground Level Formation Mississippian Effective Pay Ft. Ticket No. 15684

Date Dec. 5, 1971 Sec. 18 Twp. 8 Range 20E County Leavenworth State Kansas

Test Approved by Stanley Freeman Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 1407' to 1465' Total Depth 1465'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. X B.T. Damaged Yes X No

Packer Depth Ft. Size Packer Depth 1407 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5½" O.D. Tool Jt. Size 4½" F.H. Anchor Length 58 Ft. Size 5½" O.D. & D.C.

RECORDERS Depth 1424 Ft. Clock No. 8474 Depth 1427 Ft. Clock No. 10434

Top Make Kuster Cap. 4000 No. 3351 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 6:11 A. M

Tool Open I.F.P. From 6:15 M. to 6:45 M. Hr. 30 Min. From (B) 14 P.S.I. To (C) 14 P.S.I.

Tool Closed I.C.I.P. From 6:45 M. to 7:15 M. Hr. 30 Min. (D) 229 P.S.I.

Tool Open F.F.P. From 7:15 M. to 7:45 M. Hr. 30 Min. From (E) 19 P.S.I. To (F) 19 P.S.I.

Tool Closed F.C.I.P. From 7:45 M. to 8:45 M. Hr. 60 Min. (G) 396 P.S.I.

Initial Hydrostatic Pressure (A) 789 P.S.I. Final Hydrostatic Pressure (H) 781 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
			M.	
			M.	

BLOW Weak throughout test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 20 feet Drilling Mud

Reversed Out Yes X No Mud Type Chem Viscosity 40 Weight 10 Water Loss 12.3 cc. Maximum Temp. 86 °F

Type Circ. Sub Pin Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint — Did Packer Hold? Yes Where?

Length Drill Pipe 1312 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 180 ft.

I. D. Drill Collars 2¼ in. Length D.S.T. Tool 73 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date ecember 5, 1971 Test Ticket No. 15684

Recorder No. 3351 Capacity 4000 Location 1424 Ft.

Clock No. 8474 Elevation 1020 Ground Level Well Temperature 86 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	789 P.S.I.		Open Tool	6:15 A. M	
B	First Initial Flow Pressure	14 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	14 P.S.I.		Initial Closed-in Pressure	30 Mins.	31 Mins.
D	Initial Closed-in Pressure	229 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	19 P.S.I.		Final Closed-in Pressure	60 Mins.	61 Mins.
F	Second Final Flow Pressure	19 P.S.I.				
G	Final Closed-in Pressure	396 P.S.I.				
H	Final Hydrostatic Mud	781 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 1 Min.		final inc. of 0 Min.		final inc. of 1 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	14	0	14	0	19	0	19
P 2 5	14	3	16	5	19	3	34
P 3 10	14	6	31	10	19	6	58
P 4 15	14	9	52	15	19	9	90
P 5 20	14	12	73	20	19	12	116
P 6 25	14	15	99	25	19	15	142
P 7 30	14	18	122	30	19	18	170
P 8		21	151			21	191
P 9		24	173			24	214
P10		27	196			27	236
P11		30	221			30	256
P12		31	229			33	277
P13						36	294
P14						39	307
P15						42	321
P16						45	336
P17						48	350
P18						51	362
P19						54	374
P20						57	383
						60	396
						61	398

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