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ORIGINAL

Brungardt Oil and Leasing Inc.
C.B. Beery #3
2020' FNL and 2075' FEL
Section 34-12S-16W
Ellis County, Kansas

5 1/2 Production Casing Set

CONTRACTOR: Shields Drilling, Inc.

COMMENCED: 8-08-02

COMPLETED: 8-16-02

ELEVATIONS: 2047' K.B., 2044' D.F., 2042' G.L.

CASING PROGRAM: Surface: 8 5/8" @ 1196'
Production: 5 1/2 @ 3618'

MEASUREMENTS: All depths measured from the Kelly Bushing

DRILLING TIME: One (1) foot drilling time recorded by geolograph, surface to the R.T.D.

SAMPLES: Samples saved 2900' to the R.T.D.

ELECTRIC LOG: By LogTech., Radiation Guard Log.

FORMATION TESTING: There were five (5) drill stem tests run by Trilobite Testing, Inc.

<u>FORMATION</u>	<u>ELECTRIC LOG DEPTH</u>	<u>SUB-SEA DATUM</u>
ANHYDRITE* (driller)	1189	+ 858
TOPEKA	2984	- 937
HEEBNER	3201	-1154
TORONTO	3221	-1174
LANSING	3251	-1204

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ARBUCKLE	3508	-1461
ROTARY TOTAL DEPTH	3620	-1573
ELECTRIC LOG TOTAL DEPTH	3621	-1574

(All tops and zone determinations were corrected to the electric log engineer's measurements.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2984-2987

Limestone, white, oolitic to fossiliferous, spotty poor fossilicast porosity. No shows of oil.

3134-3142

Limestone, very finely crystalline, slightly chalky, scattered poor pinpoint porosity, fair golden brown stain and saturation. Fair show of free oil and weak odor in fresh samples.

Drill Stem Test #1 3130-3165

Open:

I.F. 45"

F.F. 45"

Blow:

Very weak on initial open.

No blow on final open.

Recovery:

70' of mud with a show of oil.

Pressures:

ISIP 1028 psi

FSIP 941 psi

IFP 44-77 psi

FFP 77-77 psi

HSH 1473-1441 psi

3174-3178

Limestone, gray, finely crystalline, sub-oocastic to fossiliferous with quartz fragments, spotty fair vugular porosity, scattered fair black stain and saturation. Show of free oil and weak odor in fresh samples.

TORONTO SECTION

3221-3224

Limestone, very finely crystalline, dense, spotty poor pinpoint porosity, scattered brown stain and saturation. Show of free oil and faint odor in fresh samples.

LANSING SECTION

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3251-3254 Limestone, gray, finely crystalline, chalky, fossiliferous, trace of spotty pinpoint porosity, scattered brown stain. Show of free oil and faint odor in fresh samples. (PERFORATE)

3275-3279 Limestone, gray to buff, fossiliferous to oocastic, fair to good scattered oocastic to vugular porosity, fair golden brown stain and saturation. Fair show of free oil and weak odor in fresh samples. (PERFORATE)

3296-3300 Limestone, gray to buff, dense and cherty, no visible porosity, trace of spotty brown edge stain. No free oil and slight odor in fresh samples.

Drill Stem Test #2 3233-3305

Open: I.F. 45"
 F.F. 45"

Blow: Strong

Recovery: 840' of gas in the pipe.
 60' of slightly oil and gas cut mud.
 60' of oil and gas cut mud.

Grind out: 50% Gas 10 % Oil 40% Mud
 180' gassy muddy oil.

Grind out: 50% Gas 40% Oil 10% Mud

Pressures: ISIP 385 psi
 FSIP 385 psi
 IFP 66-99 psi
 FFP 154-176 psi
 HSH 1560-1539 psi

3335-3337 Limestone, gray to buff, oolitic, trace of very poor spotty vugular porosity, trace of spotty light stain. No free oil or odor in fresh samples. This zone also carried streaks of milky white oolitic chert, traces of very good vugular porosity, trace of spotty edge stain. (PERFORATE)

3345-3347 Limestone, white to light gray, very finely crystalline, oocastic, fair scattered oocastic porosity. Questionable stain. No free oil and a slight trace of odor in fresh samples. (PERFORATE)

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3407-3410

Limestone, cream to buff, finely crystalline, slightly oolitic to fossiliferous, trace of spotty poor vugular porosity, trace of spotty light stain. No free oil or odor in fresh samples.

3456-3458

Limestone, tan, finely crystalline pyritic, dense, oolitic to slightly fossiliferous, trace of spotty poor interoolitic to vugular porosity, spotty light brown stain. No free oil or odor in fresh samples. (PERFORATE)

ARBUCKLE SECTION

3511-3520

Dolomite, gray to buff, fine to medium crystalline, dense, fair scattered vugular porosity, fair to good dark brown to black stain and saturation. Good show of free oil and fair odor in fresh samples.

Drill Stem Test #3 3487-3515

Open:

I.F. 45"

F.F. 45"

Blow:

Strong

Recovery:

60' of gas in the pipe.

35' of heavy oil cut watery mud.

Grind out:

15% Oil 30% Water 55% Mud

60' of oil cut muddy water.

240' of slightly oil cut muddy water.

240' of slightly oil cut water

Pressures:

ISIP 876 psi

FSIP 810 psi

IFP 77-253 psi

FFP 286-341 psi

HSH 1690-1679 psi

3525-3528

Dolomite, gray to buff, fine to medium crystalline, fair scattered intercrystalline porosity, fair scattered light brown stain. Fair show of free oil and odor in fresh samples.

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Drill Stem Test #4 3519-3529

Open: I.F. 45"
 F.F. 45"
Blow: Weak, surface for 18 minutes.
Recovery: 40' of mud with show of oil
Pressures: ISIP 1006 psi
 FSIP 963 psi
 IFP 44-44 psi
 FFP 44-44 psi
 HSH 1701-1668 psi

3534-3538

Dolomite, tan to gray, medium to coarse crystalline, good rhombic development, good scattered intercrystalline to vugular porosity, good scattered brown stain and saturation. Fair show of free oil and odor in fresh samples.

Drill Stem Test #5 3524-3538

Open: I.F. 45"
 F.F. 45"
Blow: Weak, throughout
Recovery: 35' of muddy water cut oil
Grind out: 70% Oil 20% Water 10% Mud
 55' of oil cut muddy water
Grind out: 15% Oil 45% Water 40% Mud
 60' of oil cut muddy water
Grind out: 10% Oil 55% Water 35% Mud
 60' of slightly oil cut muddy water
Grind out: 3% Oil 77% Water 20% Mud
 60' of slightly oil cut water
Grind out: 1% Oil 99% Water
Pressures: ISIP 1060 psi
 FSIP 1050 psi
 IFP 22-77 psi
 FFP 99-143 psi
 HSH 1712-1701 psi

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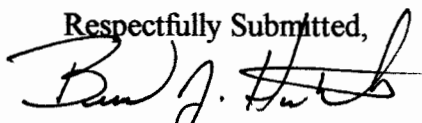
3539-3544	Dolomite, gray, medium to coarse crystalline, sandy, good intercrystalline porosity, good dark stain and saturation. Good show of free oil and weak odor in fresh samples.
3548-3561	Dolomite, tan, medium crystalline, fair intercrystalline porosity, trace of spotty stain. Show of free oil and faint odor in fresh samples.
3562-3621	Dolomite, buff to tan, pink, medium to coarse crystalline, with abundant white to cream oolitic chert, good intercrystalline porosity. No shows of oil.

ROTARY TOTAL DEPTH 3620 (-1573)
ELECTRIC LOG TOTAL DEPTH 3621 (-1574)

RECOMMENDATIONS: It was recommended that 5 1/2" production casing be set and cemented at 3615', and the following zones to be tested.

1. ARBUCKLE	3534-3536	(PERFORATE)
2. LANSING	3456-3458	(PERFORATE)
	3335-3337	(PERFORATE)
	3275-3279	(PERFORATE)
	3251-3254	(PERFORATE)

Respectfully Submitted,


Brad J. Hutchison

KANSAS		COMPANY BRUNGARDT OIL	
COUNTY ELLIS	FARM C.B. BEERY	WELL NO. 3	
BLOCK	SURVEY APPROX. SW NE		
SEC. 34			
T 12S	R 16W	TOTAL DEPTH	
		CONTRACTOR SHIELDS DRILLING	
		COMMENCED 8-08-02	
		COMPLETED 8-16-02	
		REMARKS ANNEX-1189	
ALTITUDE 2047 KB.			
PRODUCTION			

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CASING RECORD

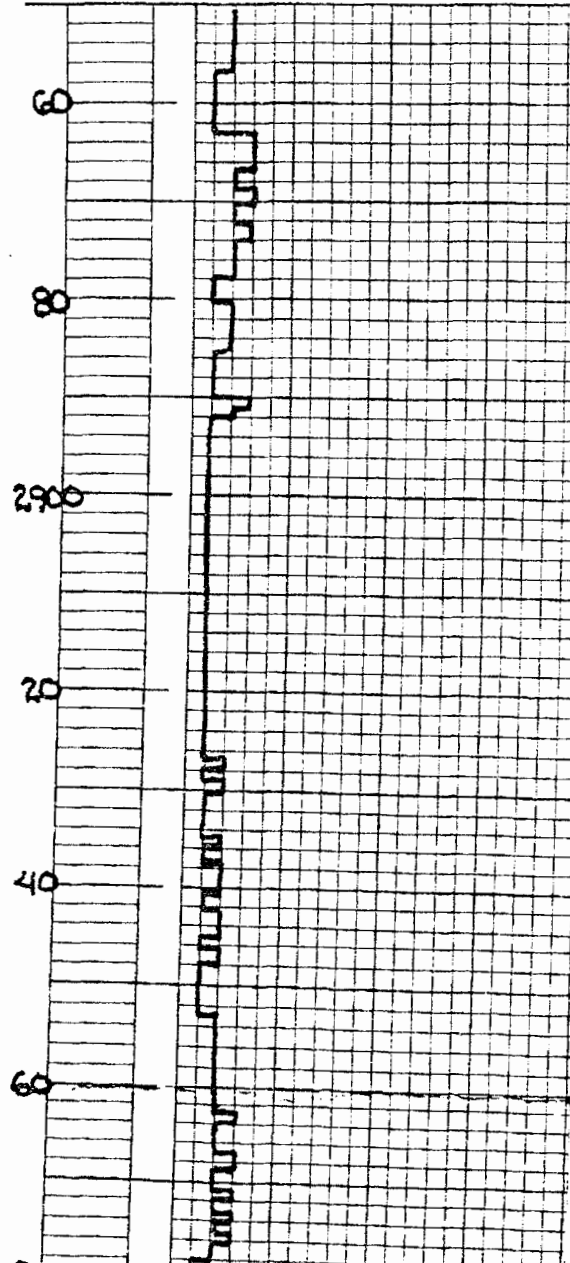
8 5/8 @ 1199
5 1/2 @ 3645

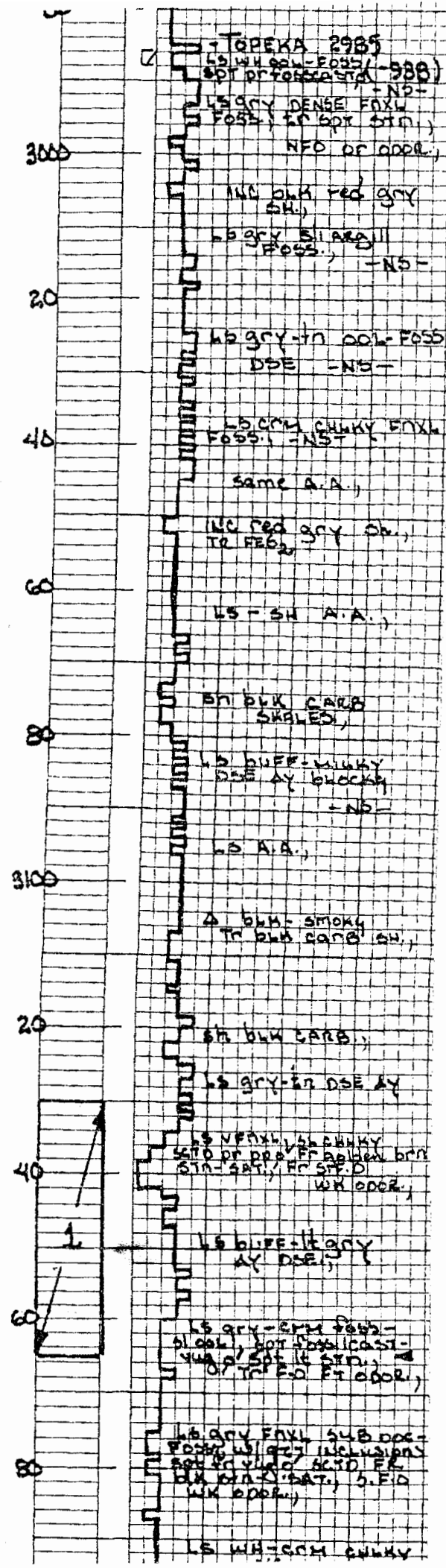
SHOT QUARTS BETWEEN

TIME RATE SCALE: 1/10" = MINUTES

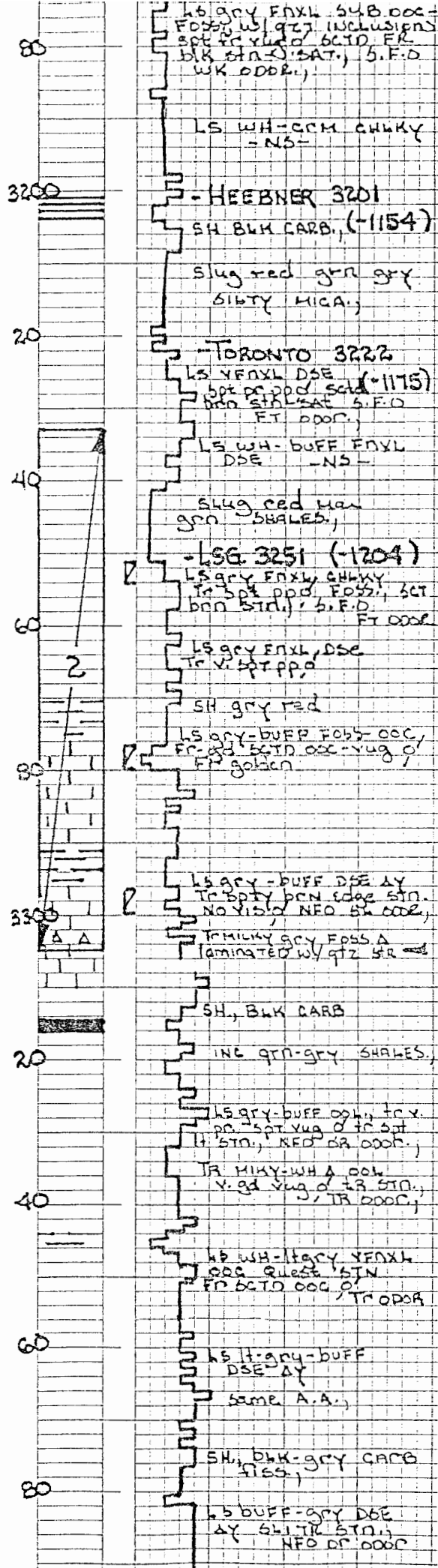
Kraft 450-A TULSA OKLAHOMA 74101 PRINTED IN U.S.A.

TIME RATE: 1/10" SQUARES

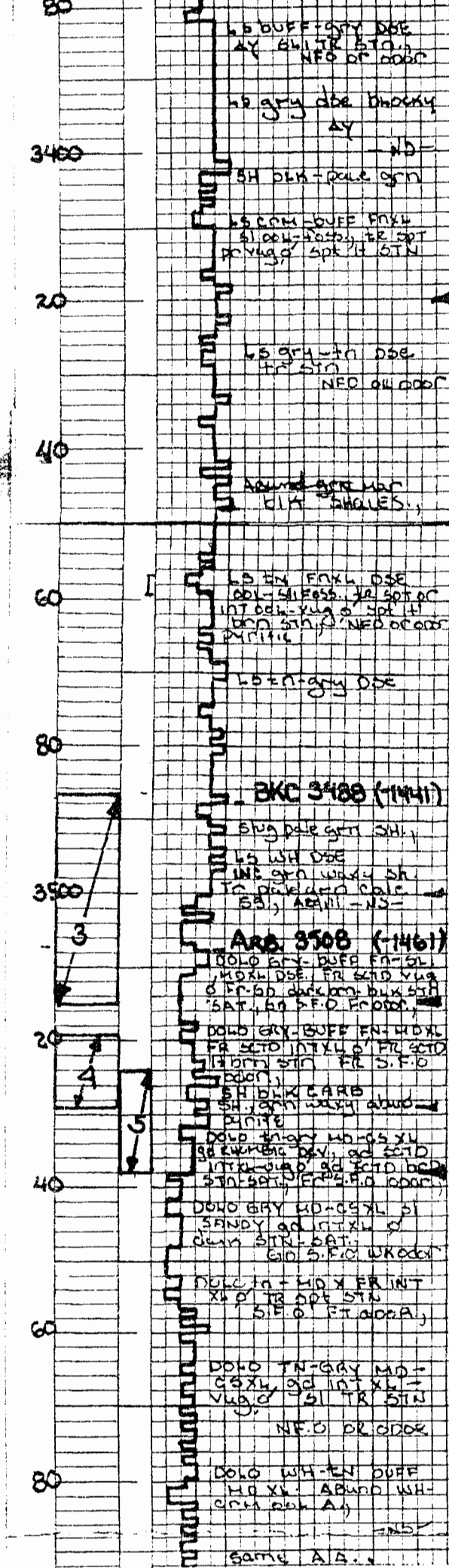




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