

20-11-19W

Ans

SHIELDS OIL PRODUCERS, INC.

GREATHOUSE #1

MAY 05 1989

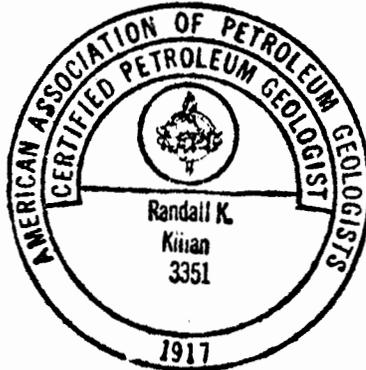
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

NE SW SW
Section 20 T11S R19W
Ellis County, Kansas

GEOLOGICAL REPORT

BY
Randall Kilian
P.O. Box 26
Hays, Kansas 67601

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STATE CORPORATION COMMISSION
APR 16 1989
CONSERVATION DIVISION
Wichita, Kansas



April 16, 1989

20-11-19W

Shields Oil Producers, Inc.
P.O. Box 709
Russell, Kansas 67665

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APR 27 1989

CONSERVATION DIVISION
Wichita, Kansas

RE: Greathouse #1
NE SW SW 20 T11S R19W
Ellis County, Kansas

Dear Mr. Shields:

The Greathouse #1 well was drilled with rotary tools commencing April 6, 1989, to a rotary total depth of 3534' (-1559), and drilling was completed April 16, 1989. Production casing was set to further test and produce the well. The following is a Geological Report for this well;

OPERATOR: SHIELDS OIL PRODUCERS, INC.
 CONTRACTOR: SHIELDS DRILLING COMPANY, INC.
 ELEVATION: 1975 K.B. 1970 G.L. (L & S)
 GEOLOGICAL SUPERVISION: 2850 to R.T.D.
 DRILLING TIME: 2850 to R.T.D.
 SAMPLES: 2850 to R.T.D. (Kansas Sample Library)
 DRILL STEM TESTS: Four (4) by Swift Formation Testers)
 ELECTRIC LOGS: RAG, DSN-CDL by Atlas Wireline
 PIPE RECORD: 8 5/8" @ 211' w/ 160 Sx 60/40% Poz.
 5 1/2" @ 3526' w/ 150 Sx Com. 25 Sx Latex
 D.V. Tool @ 1346' w/ 250 Sx 60/40% Poz. 6% Gel.

FORMATION TOPS: (Electric Log Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA DATUM</u>
Anhydrite	1328-1369	+ 647-+ 606
Topeka	2970	- 995
Heebner Shale	3191	-1216
Toronto	3210	-1235
Lansing	3231	-1256
Base Kc.	3452	-1477
Simpson Sand	3508 (10')	-1533
Arbuckle	3524	-1549
L.T.D.	3534	-1559

STRUCTURAL COMPARISONS

	<u>Shields</u> <u>#1 Greathouse</u> NE SW SW 20	<u>Okmar</u> <u>Wiles A-2</u> SE NE SW 20	<u>Murfin</u> <u>Hagen #1-20</u> Ap. C SW NW 20
Anhydrite	+ 647	+ 656	+ 648
Topeka	- 995	- 998	-1003
Heebner	-1216	-1218	-1225
Lansing	-1256 1903'	-1261 1917'	-1266 1914'
Base Kc.	-1477 293'	-1483 337'	-1486 324'
Arbuckle	-1549 72'	-1598 115'	-1590 104'

ZONES OF INTEREST

<u>FORMATION</u>	<u>DEPTH</u>	<u>DESCRIPTION</u>
Lansing "C"	3267-70	Limestone; buff to brown, medium crystalline, fossiliferous packstone, with fair inter-crystalline and interfossiliferous porosity, oil stained, show of free oil. Calc. 13% \emptyset , 77% SWS.
D.S.T. #1 LKc. "C" 3229-72 Times; 30"30"45"45" Recovery; 70' Watery Mud w/ oil specks Pressures; HP. 1732-1716#, FP. 50-58, 66-75#, SIP. 908-892#		
Lansing "D"	3281-86	Limestone; buff, oolitic, fossiliferous, packstone to grainstone, with fair inter-oolitic and interfossiliferous porosity, oil stain in porosity, parts slightly chalky, show of free oil, slight odor. Calc. 10% \emptyset , 33% SWS. included on DST #2
Lansing "E"	3304-08	Limestone; buff, fossiliferous packstone, with fair to good interfossiliferous porosity, oil stained to saturated, show of free oil, fair odor, Calc. 10% \emptyset , 45% SWS.
DST #2 LKc. "D & E" 3276-3310 Times; 30"30"45"45" Recovery; 240' G.I.P., 280' Muddy Gassy Oil. Pressures; HP. 1737-1719#, FP. 58-66, 91-117#, SIP. 966-950#		
Lansing Kc. "J"	3401-06	Limestone; buff, fine to medium crystalline, oomoldic packstone, with good oomoldic and vuggy porosity, oil saturated, good show of free oil, good odor, Calc. 11% \emptyset , 25% SWS.
DST #3 LKc, "J" 3348-3410 Times; 30"30"45"45" Recovery; 30' Mud with oil specks Pressures; HP. 1790-1771#, FP. 50-50, 58-58#, SIP. 1090-1090#		
Arbuckle	3524-33	Dolomite; medium to coarse crystalline, with good intercrystalline and vuggy porosity, oil saturated, show of free oil, fair odor. Calc. 11% \emptyset , 40% SWS.
DST #4 Arbuckle 3504-33 Times; 30"45"60"60" Recovery; 90' G.I.P. 150' Free Oil, 120' HMC Oil. Pressures; HP. 1849-1821#, FP. 33-50, 66-108#, SIP. 1065-1049#.		

NOTE: Please refer to the Geologist's Drilling Time and Sample Log for any additional information.

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SUMMARY AND RECOMMENDATIONS

In putting this prospect together, we used old (surface structures) and new (geochemistry) technology along with seismic data on trend acreage in a good reserve, multi-pay zone area to discover oil on this wildcat prospect. This same technique can be used to further explore this area. The tools all seemed to work well, particularly the seismic. Several of the Lansing Kc. zones appear to be near to well developed oil reservoirs which may be encountered productive in off-set wells.

Structurally, the Greathouse #1, was high to the two dry holes north and east on all zones. The Arbuckle was 41 to 49 feet high which put it in the same structural position as the production to the southwest.

For these reasons along with good DST results and favorable electric log values, 5 ½" production casing was set to further test and produce this well. With this discovery, several additional drillsites are possible.

Respectfully,

Randy Kilian
Randall Kilian
P.O. Box 26
Hays, Kansas 67601

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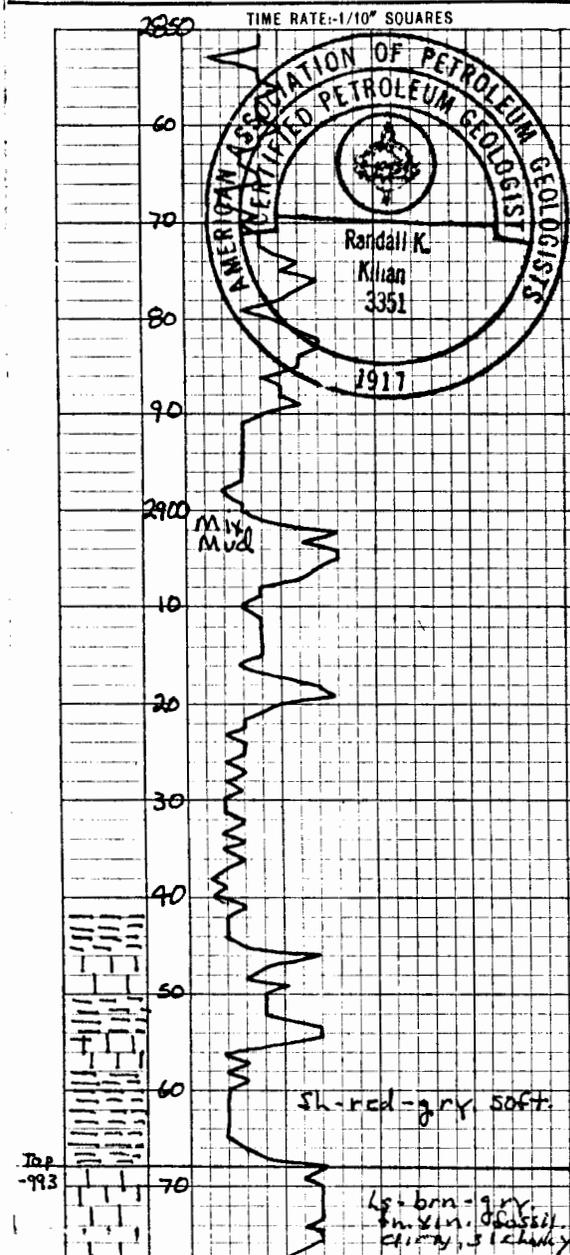
STATE Kansas	Shields Oil Prod, Inc. COMPANY	
COUNTY Ellis	FARM Greathouse	WELL NO. #1
BLOCK	SURVEY NE SW SW	
SEC. 20		
T. 11S.	R. 19W.	TOTAL DEPTH 3534'
CONTRACTOR Shields Drilling		
COMMENCED 4-06-89		
COMPLETED 4-16-89		
REMARKS Wellsite by Randall Kilian		
ALTITUDE 1975 KB		
PRODUCTION Producer		

CASING RECORD

8 5/8" @ 211 w/	160 Sxs 60/40 Poz.
5 1/2" @ 3526 w/	175 Sxs.
D.V. Tool @ 1346'	w/ 250 Sx.
SHOT	QUARTS BETWEEN

TIME RATE SCALE: 1/10" = MINUTES

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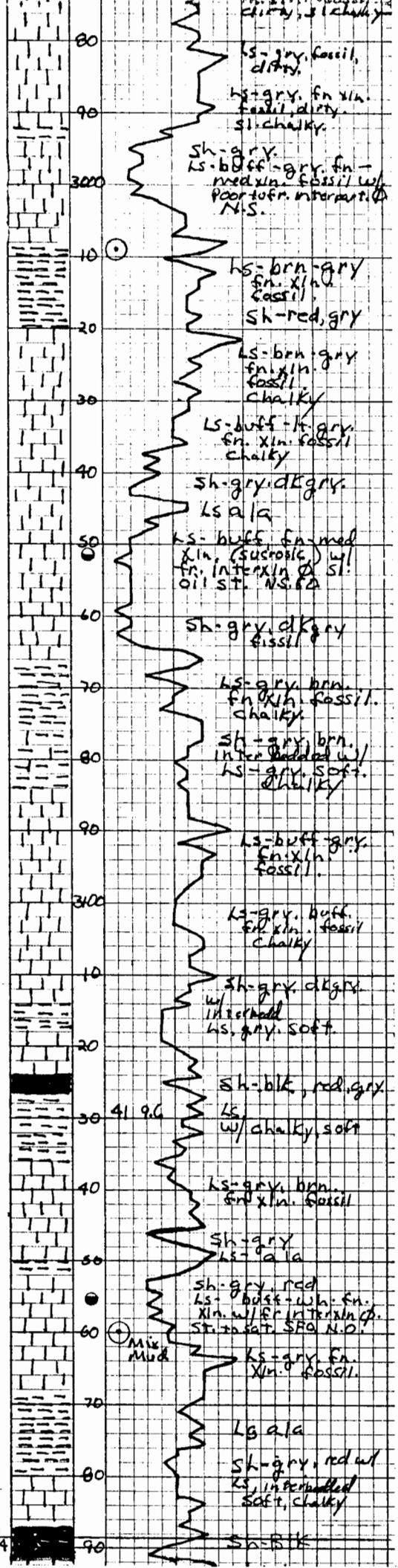
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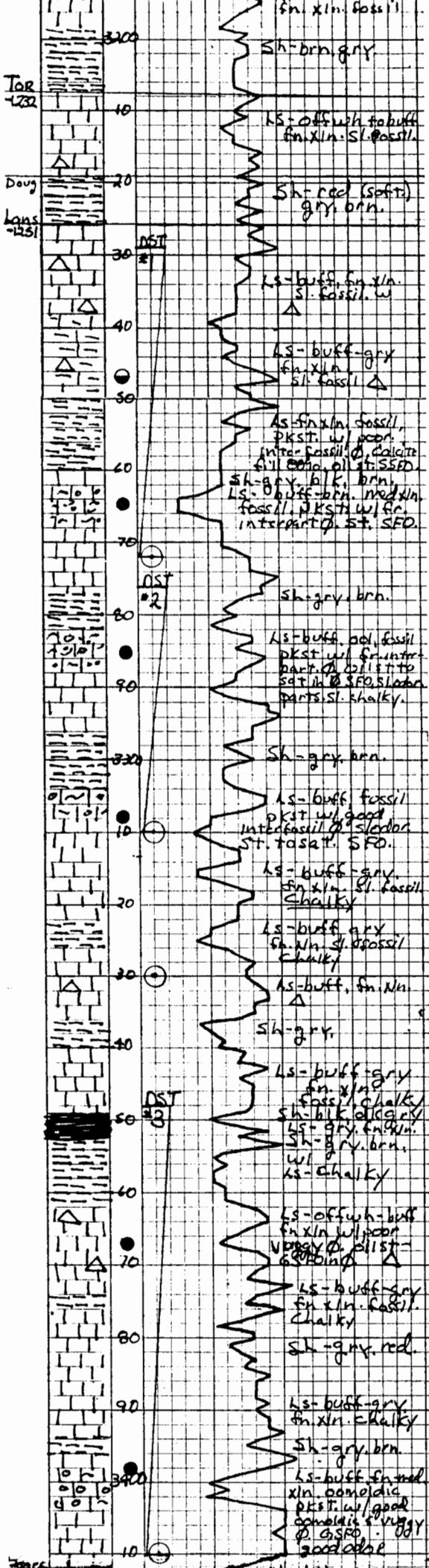
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