

GRAHAM-MESSMAN-RINEHART OIL COMPANY

204 NORTH MARKET STREET
WICHITA, KANSAS
4 - 8394

G E O L O G I C A L R E P O R T

COMPANY Graham-Messman-Rinehart Oil Co. WELL Walter "A" No. 1

LOCATION SW SW SE of Sec. 4-13-17W COUNTY Ellis STATE Kansas

DATE COMMENCED 4-18-55 DATE COMPLETED _____ ELEV. 2054 KB
2051 D.F.

FORMATION TOPS: ELECTRIC LOG (x) SAMPLES (x)

ANHYDRITE	_____	<u>1234 (+826)</u>
LANSING	<u>3328 (-1274)</u>	<u>3330 (-1276)</u>
SIMPSON-DOLOMITE	_____	_____
ARBUCKLE	<u>3566 (-1512)</u>	<u>3566 (-1512)</u>
TOTAL DEPTH	<u>3575</u>	<u>3586 (-1532)</u>

SHOWS OF OIL:

3330-42 - See D.S.T.
3385-91 - Fr. por, ooc. - tr. stn.
3395-3405 - Fr. por, ooc. - fr. sat.
3511-18 - Fr. por, foss. - tr. sat.
3566-86 - Poor por. - fr.-good sat. - some free oil.

DRILL STEM TESTS:

No. 1 3320-50', op 1 hr., S.I. 20". Gas in 25". Rec. 120' M.O., 1050' free oil.
I.F.P.-405#, F.F.P.-540#, B.H.P.-945# (Tool partially plugged)

CONCLUSIONS:

All conclusions are made on the basis of the electric log and the D.S.T. as samples were too poor to use as a basis of evaluation. The zone tested, 3330-42, was in the upper part of the Lansing formation and appears to have a thickness of approximately 12 feet. Since the tool was partially plugged during the test, the results are indicative of a very good oil producing zone. The zone 3385-91 appears to have good possibilities on the basis of the electric log while zones from 3395-3405 and 3511-18 warrant testing in view of samples and electric log interpretation.

The Arbuckle section drilled, while showing good saturation to total depth, appeared tight and will probably require fracturing or high pressure acidizing to produce.

Roger M. Messman
Roger M. Messman

	shale	ls	
3395-3400	40	60	by wh. ls. fr. 10' sat (5%)
3400-05	35	65	" " " " " "
05-10	35	65	" " " " " "
10-15	35	65	" " " " " "
15-20	35	65	" " " " " "
20-25	25	75	" " " " " "
25-30	30	70	" " " " " "
30-35	35	65	" " " " " "
35-40	30	70	" " " " " "
40-45	30	70	" " " " " "
45-50	30	70	" " " " " "
50-55	40	60	" (cont.) - few fr. sat.
55-60	25	65	" " " " " "
60-65	35	65	" " " " " "
65-70	40	60	" " " " " "
70-75	40	60	" " " " " "
75-80	40	60	" " " " " "
80-85	40	60	" " " " " "
85-90	45	55	" " " " " "
90-95	55	45	" " " " " "
95-100	55	45	" " " " " "
100-105	55	45	" " " " " "
105-110	55	45	" " " " " "
3500-05			
05-10			
10-15			
15-20			
20-25			

3375-80	40	60	by wh. ls. fr. 10' sat
80-85	45	55	" " " " " "
85-90	40	60	" " " " " "
90-95	45	55	" " " " " "

GMR
The City

NO. 2 WALTER "A"

May 17, 1955

Location: SW SW SE, 4-13S-17W
Ellis County, Kansas

SUPPLEMENTAL REPORT: Cable Tool Unit Activity

R.T.D. 3586'. 5½" at 3586' w/75 sacks cement.

Moved in cable tools May 9, 1955. Drilled out cement to 3586'.

Drilled deeper 12' to 3598'. Washed hole down with acid and bailed 2 GOPH. Acidized w/500 gallons. First hour swabbed 4½ BF, 95% water. Tested for 12 hours. Last hour swabbed 1.67 BF, 95% water.

Perf 3532-36' w/16 shots. No shows. Perf 3410-14' w/16 shots, very slight show of oil. Acidized w/1000 gallons. Swabbed 4 bbls acid water first hour. Tested 7 hours. Last hour swabbed .83 BF, very slight show oil.

Set plug at 3434. Perf 3404-08' w/16 shots. Acidized w/1000 gallons. First 2 hours swabbed 10 BOPH, 3% water. Tested for 8 hours. Last 2 hours swabbed 13 BOPH, 3% water. Completed 5-14-55.

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SAMPLES INSTRUCTIONS

Elev ordered: 4-19-55

TO: *Rig #3*

Well Name *Walter "A"*

No. 2

Description: *Sw Sw Se, Sec 4-13^s-17^w, Ellis Co, Kans.*

Start 10' samples at 2800 feet

Start 5' samples at 3250 feet

Record _____ drilling time from _____ feet

Record _____ drilling time from _____ feet

Report daily drilling depth after morning tour to:

Messman Letter @ St Bend

When depth of 3225-50 feet is reached call:

Messman Letter @ St Bend

Do not drill below depth of 3350 feet prior to geologist's arrival at well.

Maintain water loss of 18 cc's/30 min. below depth of 3300 feet.

GRAHAM-MESSMAN-RINEHART OIL COMPANY

R.K.M.
Geologist: *~~Vernon Hess~~*

*copies mailed
4-20-55
js*