TOPS:	Sample	Elec.	C pany	Mack Oil Company
			Name	Eubank Unit #1
Blue Hill Shale		3471	Desc.	C SW NE Sec. 20-21S-42W
Greenhorn Fm.		5941	County	Hamilton County, Kansas
Ganeros			Elev.	3768 KB. 3766 DF
Bentonite		706	Geol.	Bill Atkinson
Gurley SS		7741	Est. TD	31000
Kiowa Fm.		9571		
Permian		1305		
Blaire Gyp		1382		
B/Cim. Anhy.	23561	23541		
Krider	27391	27061		
Winfield	2781'	27481		
L/Ft. Riley	28831	28441		
Total Depth		30101		

9-2-61	8 5/8" at 171 w/125 sacks
9-5-61	Drilling @ 2920
9-6-61	Running Log
9-7-61	42" set at 2930' w/150 sacks.

Calculations	Porosity	Water Saturation
595 - 97	18	Not reliable
599 - 602	26	Not reliable
613 - 15	33	Not reliable
619 - 21	29	Not reliable
624 - 28	33	Not reliable
6634 - 37	36	Not reliable
2670 - 74	15	41
2706 - 09	6	95
2716 - 21	13.5	Not reliable
2724 - 30	14.5	28-42
2734 - 38	16.5	48
2796 - 2804	21	63
2812 - 22	20	65
2830 - 38	18.5	75
2844 - 50	14	100

4-1-01	bet 2/34' or 45" 4.0% J-00 casing at 2/30 W/100 sax rought
	w/43 added gell. Float at 2899. DV tool in casing string
	at 712'. Cemented w/75 sax Pozmix w/4% gell.
9-13-61	
7-17-01	Moved in spudder. Drill out DV tool at 712'. Run Cement
	Bond log. Good bond indicated thru all zones of interest
9-14-61	Perf. Up. Ft. Riley 2813-18' w/20 holes. Swab down for no
	show. Slight amount of fluid.
9-15-61	2000' fluid in hole on vaccuum. Swab down for no show.
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	Treat w/500 gal. of mud acid by Dowell. No breakdown. Swab down to recover unspent acid water and no sho of fluid
/ /-	down to recover unspent acid water and no sho of fluid
9-16-61	SITP 10, 300' SW in hole. Have slight show of gas when swab
	is pulled.
	Winfield zone - Jet perf 2755-60 with crack jet. Swab down
	Run tubing w/Howco type RA-3 packer set at 2782'. Treat
	Winfield down annulus w/500 gals mud acid. Breakdown 2600-
/-	200# on vaccuum. Unseat packer.
9-17-61	Swab down through tubing. Recovered all load & acid water
	w/slight increase in gas. Both Winfield and Ft. Riley open.
9-18-61	SIP 6# Approx. 800' water in hole, showing increase in
	fluid with Winfield w/Ft. Riley. Treated w/12000# 20/40
	sand and 12000 gal. gelled water, 1% HCL, \frac{1}{2} gal. Howco suds/1000
	Breakdown pressure 1000-600 Max. Treating pressure 1425#.
	SI 70-0 Used 30 rubber balls injected in 3 batches. Pr.
	increase noted each time balls were injected. Total load
	385 bbls. Average injection rate 36 B/M.
9-19-61	Pressure. 1200' fluid in hole. Swab down to 2000' and
	unable to swab fluid below this depth. Returning fluid
	becoming more salty after 6 hrs. swabbing. Slight trace of
0 00 63	gas, decreasing w/continued swabbing.
9-20-61	Of pressure. Running 2" tubing w/type RA packer set between
	Winfield and Ft. Riley zones. Swabbing Ft. Riley zone thru
	tubing. Swabbing from approx. 2000' unable to lower fluid.
	Very very slight show of gas when swab was pulled.
9-21-61	SIP 138# Set CI drillable plug at 2800. Swab Winfield to
	show cons. salt water. Unable to swab completely down.
	Showing approx. same amount of gas as before. SI. WOO
10-4-61	SI 510# Require 20-25 minutes to blow well down. Fluid
	level at 2400'. Swab well to recover 10-12 bbls. salt water
	per hour. Showing slight increase in gas ahead of swab.
10-5-61	SI 350%. Open well blow down immediately. Testing well
	after blow down making 30-40 MCF per day to continue testing.
10-7-61	SI 230# after 36 hrs.
10-8-61	SI 285# after 60 hrs. Open well w/l" choke. Flow rate 210
	MCF down to 150 in 30 min. Change choke. Flow rate 77 MCF
	per day down to 0 in 2 hrs.
10-9-61	SI 115# after 24 hrs.
10-10-61	SIP 190# after 48 hrs. MIU Fluid at 1450' Very slight show
	of gas above fluid after blowing down. Perf. 2718 - 192
	& 2672 - 73 w/8 holes per ft. Running tubing w/Baker
	retrievable plug to test.

10-11-61 Set Baker plug at 2743' and type R3 packer at 2693'. Swab perfs between plug and packer for no show of gas. Very small amount of fluid. Treat w/200 gal. mud acid. Breakdown 3500-1000, Final pumping pressure Of. Swab down for no show. Move plug to 2710 and reseat packer at 2664'. Swab down for no show. Very small amount of fluid. Treat w/200 gal. MCA. Breakdown 2500. Treating pressure 200#, Final pressure 100%. Flow back slight amount when open. Swab completely down to recover considerable unspent acid. Very slight amount of new fluid. Slight blow ahead of swab. No odor.

10-12-61 Opened well-some blow. Loaded tubing w/water. Unseated packer and lowered plug to 2709. Swab tubing and annulus until fluid level was down to 2200'. Set packer at 2664 and swab tubing. Water increased. Lefel up to 1900'.

Getting very salty. -

Had no pressure on casing. Tubing had 408#. Blew down tubing thru 1" Orfus at rate of 400. Blew down in 15 min. Pulled swab from bottom w/approx. 1000' of broken gas cut fluid. Unseated packer. Latched on plug and pulled tubing. Plug had slipped 6' down hole. It is possible that the bottom of plug was in Winfield perf. Plug would not come thru DV tool. Released plug and came out of hole w/packer. Went back in w/retrieving tool. Jarred on packer for approx. 2 hrs. It is apparent that the slips are hung. Top slips will jar thru but bottom slips will not. Lowered plug approx. 30' below DV tool. Set and came out of hole. Put on valve and moved off.

10-28-61 SIP 160# above plug. Fluid 1800'. Perf 2632-35 w/12, 2638-44 w/24 and 2612-16 w/16. Run tubing. Set retrievable

Flug at 2660 and packer at 2631.

10-29-61 SIP 75#. Swab interval 2632-44 for no fluid entry. Treat zone w/500 MCA. Breakdown 625-500#, Max. 950#, Min. 500#, Final 950#, SI 400#. 6 in 2 min. Swab load water thru tubing. No additional fluid entry. No show of gas. Reset plug at 2624' w/packer at 2604. Treat interval 2612-16 2/500 gal. MCA. Breakdown 600, Max. 750, Final 0. Swab load water thru tubing. Then swab approx. 26 bbls. salt water per hour w/slight show of gas in water.

10-30-61 SIP 40#. Fluid at 1600'. Pull tubing and packer w/Baker
Retrivable.plug from hole. Set Baker C.I. Plug at 690'.

Jet perf Greenhorn 596-602' w/24 holes. Run tubing w/packer
Swab down for no show or fluid entry. Treat w/250 gals.

MCA. Breakdown 500-300#. Swab load for very slight show of

gas. No fluid.

10-31-61 Perf 613-15; 624-28; 634-37. Set packer at 608'. Swab down. N.S. Treat w/250 gals. MCA. Breakdown 450-250. Swab load. N.S. Recovered some acid water.

11-1-61 SIP 5#. Pull tubing and packer. 150' acid water in hole. Swab casing. No show. No fluid. Shut-in.