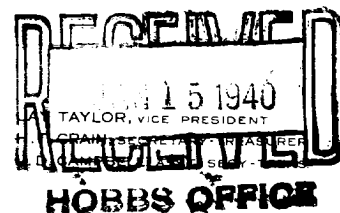


ERLE P. HALLIBURTON, PRESIDENT

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1-12-40

Halliburton
PATENTED PROCESS
Oil Well Cementing Co.

DUNCAN, OKLAHOMA

REPORT ON CEMENTING LIPPLA FROM J. H. CRULLEY'S STATE LEWERS NO. 1 EDLEY CO. N. M.
Artesia Area

Depth	Percent Soluble	Insoluble Materials	Gelatinous Characteristics	Saturation
2194-98	89	Wh sand-red sand-shale	Trace sand silt	None
2198-06	83	White sand	Large amt Sec. Reprec.	"
2206-10	83	" " & shale	" " " "	"
2210-20	93	Shale	None	"
2220-25	83	" & anhy	Trace Shale silt	"
2225-30	80	Shale-sand-anhy	Large amt. Sec. Reprec.	"
2230-37	89	Shale	Trace Shale silt	"
2237-52	80	Sand-shale	Trace Shale silt	"
2252-60	93	Sand-shale-pyrite	Trace Sand silt	"
2260-72	88	Sand	Trace " "	"
2272-81	89	Sand & anhy	" " "	"
2281-85	88	" "	" " "	"
2285-90	75	Wh sand & red sand	Large amt. sand silt	"
2290-93	79	Shale-Bentonite	" " " "	"
2298-02	95	Pyrite-shale	Trace Sec. Reprec.	"
2302-05	92	Sand-shale	Trace Shale silt	"
2305-10	85	" "	Large amt. Sec. Reprec.	Trace
2310-13	77	" "	Hvy. Shale silt	None
2318-22	80	" "	" " "	"
2322-26	75	" "	" Sand "	"
2326-35	75	" "	H y. Sec. Reprec & Tr Sh silt	Trace
2335-40	78	" "	" " " " " "	"

Remarks: Apparently there is too much sand in the pay section to expect good results from acid treating. However, wells of this nature have been acidized and good results obtained when it did not take too great amount of pressure to pump the acid into the formation. In other words, if the pay section be open enough to take the acid under a reasonable amount of pressure within a reasonable length of time it would be open enough to give up the insoluble sand or the well is swabbed in after acid treatment. This insoluble sand will sluff off having a plugging effect where the drainage channels are small.

E. H. Wright