

33-16-4W



Blackstone Drilling, Inc.

Box 1184 • 523 West Kansas • Phone (316) 241-1250

McPHERSON, KANSAS 67460

September 7, 1982

COMPANY: A. SCOTT RITCHIE
 CONTRACTOR: BLACKSTONE DRILLING, INC.
 FARM: LANGERSTROM #1
 LOCATION: 1650' FNL & 990' FEL NE/4 Section 33-16-4W,
 Salina County, Kansas
 COMMENCED: August 26, 1982
 COMPLETED: September 4, 1982
 ELEVATION:

0	to	35	Sand & Clay
35	to	740	Shale
740	to	1085	Lime & Shale
1085	to	1980	Shale & Lime
1980	to	2155	Lime & Shale
2155	to	2660	Shale & Lime
2660	to	2840	Lime
2840	to	3085	Lime & Shale
3085	to	3145	Shale & Lime
3145	to	3250	Lime
3250	to	3380	Mississippi
3380	to	3423	Lime
3423	to	3460	Kinderhook Shale
3460	to	3627	Shale
3627	to	3645	Maquoketa
3645	to	3757	Lime
3757	to	3830	Simpson
3830	to	3850	Arbuckle
		3850	T. D.

Cut 12 1/2" hole to 210' and run 212' of 8 5/8" surface casing, cemented with 150 sacks of cement at 210'. Plug down at 5:30 P. M., August 26, 1982. Hole dry and abandoned. Set first plug at 300' with 60 sacks of cement. Second plug set at 40' with 10 sacks of cement, 10 sacks in rathole. Plugging completed at 3:45 P. M., September 4, 1982. State Plugger, Gilbert Toman, Holyrood, Kansas .

TOPS: HEBBNER - 2265' LANSING - 2464' BASE KANSAS CITY - 2813 MISSISSIPPI - 315'
 KINDERHOOK - 3423' MARUOKETA - 3630' VIOLA - 3661 SIMPSON SAND- 3761'
 SIMPSON SHALE #3768' SECOND SIMPSON SAND-3799' ARBUCKLE -3831'

Measurements taken from K. B.

CERTIFICATE

I, P. K. Plouffe, President of Blackstone Drilling, Inc. do hereby certify that the above and foregoing is a true and correct copy of log on your Langerstrom #1, located