



Form PO-214 Sheet 1 of 1

LOG OF WELL

SHEET No. 2

12-8N-54W

Casper District
District Graylin Field Owner The Texas Company Farm J. H. Monroe (NCT-2) Well No. 4

FORMATION		AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
Tertiary	Surface	627				Gravels and alluvium of gray and pink quartz rounded pebbles.
Pierre Shale	627	3395				Dark gray to black clay shale, few calcareous beds, soft and gummy, with stringers of limestone and fish scales in places.
Niobrara (Lime)	4022	410				Shale, limey, black, brownish black looking where abundant forams giving speckled appearance with their tiny white spots. Some shale slightly silty. Also, plain and soft blue gray shale alternating. Bentonite, pyrite specks.
Carlisle Shale	4432	198				Shale, sandy and silty shale, dark gray to black, sandy to very fine sandstone streaks gray peppered with black specks, calcareous soft. Also limestone stringers, light orange, silty soft, and bentonite. Shales are calcareous and in part white speckled with forams, and few fish fragments.
Greenhorn (Limestone)	4630	7				Limestone, brown, dense hard, cherty looking. Sandy limestone to very fine and limey sandstone hard, tight, and gray.
Graneros Shale	4637	242				Shale, silty siltstone, black, much speckled with forams. Silty lime stringers. Plain shale dark gray, much calcareous. In lower portion few thin sandstone beds, gray very fine, speckled with glauconite and black specks.
Dakota Sandstone	4879	105				Sandstone, very fine to fine and well sorted grains angular to sub-angular, light gray where barren, mostly noncalcareous, little or no cementation.
"D"	4984	102				
"J"	5086					
Schlumberger TD Driller's TD	5084					



LOG OF WELL

SHEET No. 3

12-80-540

Casper District
 District Graylin Field Owner The Texas Company Farm J. H. Monroe (NCT-2) Well No. 4

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>FORMATION TOPS FROM SCHLUMBERGER ELECTRIC LOG</u>					
Tertiary	Surface				
Pierre	627				
Niobrara	4022				
Fort Hays	4383				
Carlisle	4432				
Greenhorn	4630				
Graneros	4637				
Bentonite Marker	4785				
Dakota "D"	4879				
Base "D"	4916				
Dakota "J"	4984				
Schlumberger TD	5086				
Driller's TD	5084				
<u>DRILL STEM TEST</u>					
<u>DST #1 - 11-17-54</u>					
Packer set 5001-5007.5'. Tool opened with weak blow increasing to fair blow in 5 minutes - Good blow in 15 minutes. Gas to surface in 1 hr. and 35 min. Tool open 2 hrs. - Shut in 40 minutes. Recovered 1945' free oil - 170' mud cut oil - 10' water. IFP - 0 FFP - 520 psi H.P. - 2640 psi SIP - 1260 psi					

