

LOG OF WELL

SHEET No. 3

18-8N-53W

District Casper-FieldOwner The Texas Company Farm C. Luft, Jr.Well No. 1

| FORMATION | AMOUNT | COLOR | HARD OR SOFT | DEPTH CORES TAKEN | REMARKS |
|--|---------|-------|--------------|-------------------|---------|
| <u>FORMATION TOPS FROM SCHLUMBERGER ELECTRIC LOG</u> | | | | | |
| Tertiary | Surface | | | | |
| Pierre Shale | 875 | | | | |
| Hobbs | 4020 | | | | |
| Fort Hayes | 4358 | | | | |
| Carlisle Shale | 4403 | | | | |
| Greenhorn | 4602 | | | | |
| Graneros Shale | 4612 | | | | |
| Gentonite Marker | 4758 | | | | |
| Dakota "D" | 4850 | | | | |
| Base "D" | 4884 | | | | |
| Dakota "J" | 4954 | | | | |
| Iowa | 5026 | | | | |
| Schlumberger T.D. | 5027 | | | | |
| Driller's T.D. | 5034 | | | | |
| <u>DRILL STEM TESTS</u> | | | | | |
| DST #1: April 4, 1954 | | | | | |
| Packer Set 4849-4861' KB -- misrun. | | | | | |
| Test went to bottom OK. Top packer failed to hold. Tried to reset packers. Packers would not hold. Pulled packers. | | | | | |
| DST #2: April 5, 1954 (4852-5027' KB) | | | | | |
| Packer set at 4852' - 4861' KB. -- misrun. Bottom packer held approximately 15 minutes before failing. Tool opened with fair blow, continued fair blow. | | | | | |
| Gas to surface in 55 minutes (too small to measure). | | | | | |
| Blow increased to end of test. | | | | | |
| Tool open 1 hour, 45 minutes; Shut in 30 minutes. | | | | | |
| Recovered 1085' fluid -- 215' gas and oil cut mud, 31' gassy oil and water cut mud 5% oil, 93' gassy oil cut water 30% oil, 93' same w/20% oil, 1553' 653' gassy muddy water trace oil 1%? | | | | | |
| IFP - 70#, FFP - 355#, SP - 2620#, SIP - 1110#. | | | | | |

LOG OF WELL

SHEET No. 2

18-8N-530

LUT

District **Gasper** - Field Owner **The Texas Company Farm C. Tuft, Jr.**Well No. **1**

| FORMATION | | AMOUNT | COLOR | HARD OR SOFT | DEPTH CORES TAKEN | REMARKS |
|-----------------------|---------|--------|-------|--------------|----------------------|--|
| Tertiary | Surface | 875 | | | | Gravels and alluvium of gray and pink quartz rounded pebbles. |
| Pierre Shale | 875 | 3145 | | | | Dark gray to black clay shale, few calcareous beds, soft and gummy, with stringers of limestone and fish scales in places. |
| Niobrara (Lime) | 4020 | 338 | | | | 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. |
| Fort Hayes | 4358 | 45 | | | | |
| Carlisle Shale | 4403 | 199 | | | | 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 specked with forams, and few fish fragments. |
| Greenhorn (Limestone) | 4602 | 10 | | | | Limestone, brown, dense hard, cherty looking. Sandy limestone to very fine and limey sandstone hard, tight, and gray. |
| Graneros Shale | 4612 | 146 | | | | 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. |
| Bentonite Marker | 4758 | 92 | | | | |
| Dakota Sandstone | | | | | | Sandstone, very fine to fine and well sorted grains angular to sub-angular, light gray where barren, mostly noncalcareous, little or no cementation. |
| "D" | 4850 | 34 | | | | |
| Base "D" | 4884 | 70 | | | | |
| Dakota "J" | 4954 | 72 | | | | |
| Kiowa | 5026 | 1 | | | | |
| Schlumberger T.D. | 5027 | 7 | | | | |
| Driller's T.D. | 5034 | | | | | |