



LOG OF WELL

SHEET No. _____

9-8N-54W

District Casper-S. Liberty Owner The Texas Company Farm M. Ross Well No. 1

FORMATION		AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
Tertiary	Surface	810				Gravels and alluvium of gray and pink quartz rounded pebbles.
Pierre Shale	810	3634				Dark gray to black clay shale, few calcareous beds, soft and gummy, with stringers of limestone and fish scales in places.
Niobrara (Lime)	4444	303				Shale, limey, black, brownish black looking where abundant forams giving speckled appearance with their tiny white spots.
Pt. Hayes	4747	50				Some shale slightly silty. Also, plain and soft blue gray shale alternating. Bentonite, pyrite specks.
Carlisle Shale	4797	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 specked with forams, and few fish fragments.
Greenhorn (Limestone)	4993	07				Limestone, brown, dense hard, cherty looking. Sandy limestone to very fine and limey sandstone hard, tight, and gray.
Graneros Shale	5000	156				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	5156	90				
Dakota Sandstone						
"D"	5246	110				Sandstone, very fine to fine and well sorted grains angular to sub-angular, light gray where barren, mostly noncalcareous, little or no cementation.
"J"	5356	36				
Schlumberger T.D.	5392	03				
Driller's T.D.	5395					

LOG OF WELL

SHEET NO. 3

9-8N-54W

District Casper-S. Liberty Owner The Texas Company Farm M. Ross Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
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FORMATION TOPS FROM SCHLUMBERGER ELECTRIC LOG

Tertiary	Surface				
Pierre Shale	810				
Niobrara (Lime)	4444				
Ft. Hayes	4747				
Carlisle Shale	4797				
Greenhorn (Limestone)	4993				
Graneros Shale	5000				
Bentonite Marker	5156				
Dakota "D"	5246				
" " "J"	5356				
Schlumberger T.D.	5392				
Driller's T.D.	5395				

DRILL STEM TEST

DST #1 May 28, 1953
 Packer Set 5370' to 5395'
 Tool open 2 hours; shut in 20 minutes
 Strong blow with gas to surface in 7 minutes. After 30 minutes gas measured 683 MCF - in 45 minutes was flowing water and gas. Est. 700 MCF gas.
 Recovered 5' Green oil, 55' oil cut mud, 1170' clear water.
 IFF - 200; PFP - 800; STP - 1375.

DST #2 May 29, 1953
 Packer set 5389' to 5395'
 Tool open 4 hours; shut in 15 minutes.
 Medium blow which decreased to poor blow at end of test. No gas to surface.
 Recovered 90' Oil Cut Mud and 1080' fresh water.

CORE RECORD

Core No. 1, from 5348' to 5395'					Cut 47.5'; Rec. 47.5'
5348.0 - 5352.5	4.5				sh/w ribbon ss (10% ss)
5353.5 - 5354	1.5				ss, carbonaceous, no stn.
5354. - 5355	1				fn. gr. v sl odor
5355. - 5356	1				ss, med gr, sl odor, no stn, sl perm. & por.
5356. - 5358	2				ss, tt, no stn, odor or show. VP
5358. - 5358.5	0.5				ss gy, no por or perm. sl stn & odor. Coal

LOG OF WELL

SHEET No. 4

9-8N-54W

District Casper-S. Liberty Owner The Texas Company Farm H. Ross

Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>CORE RECORD (Cont.)</u>					
Core No. 1, from 5318' to 5395 1/2' (Cont.)					
5358.5 - 5360.0	1.5				No show
5360. - 5361	1				ss, fn, no stn or odor
5361. - 5362	1				ss, ribbon, 30% ss, no show
5362. - 5364	2				1" bentonite at top, sh, w/stst & ss blebs & streaks
5364. - 5369	5				ss gy fn no show carbonaceous & pyritic
5369. - 5370	1				sh w/stst streaks
5370. - 5371	1				ss, fn sl stn & odor No visible por.
5371. - 5371.5	0.5				ss fn tt no st or odor
5371.5 - 5374.	2.5				ss fn sl st & odor, sl perm - tastes gassy
5374. - 5377	3				as above w/VP, ss has gassy taste
5377. - 5378	1				same, ss tt w/sh strks.
5378. - 5379	1				as above, gas odor
5379. - 5380	1				VP, better per & perm. ss, gy, gas odor, no st.
5380. - 5381	1				as above w/sh strks. gassy odor
5381. - 5383	2				as above w/VP
5383. - 5384	1				as above w/sh strks.
5384. - 5385	1				ss w/interbedded sh, no st or odor, tt
5385. - 5387	2				as above w/sl st, good gas odor, tt
5387. - 5389	2				ss tt no st or odor
5389. - 5390	1				ss tt w/gassy odor, carbonaceous w/sl oil st along sh partings.
5390. - 5391	1				ss, coarse, gas odor. sl oil st, fair perm.

LOG OF WELL

SHEET No. 5

9-8N-54W

District Casper-S. Libert Owner The Texas Company Farm M. Ross Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>CORE RECORD (Cont.)</u>					
Core No. 1, from 5348' to 5395 1/2' (Cont.)					
5391.0 - 5392	1				ss w/ribbon sh, 30 to 40% ss, no show
5392. - 5394	2				ss, fn, fair oil st & odor, interbedded carb, fair perm. no water
5394. - 5395.5	1.5				as above, VF