



02496683

LOG OF WELL

FORM PO-214 Sheet 2 (4-51) 50M

SHEET No. 2

District ~~Casper~~ ~~Padroni~~ Owner ~~The Texas Company~~ Farm ~~A. R. Todenhoft~~ Well No. 1

FORMATION		AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
Tertiary	Surface	534				Gravels and alluvium of gray and pink quartz rounded pebbles.
Pierre Shale	534	3062				Dark gray to black clay shale, few calcareous beds, soft and gummy, with stringers of limestone and fish scales in places.
Niobrara (Lime)	3596	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	4006	224				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)	4230	7				Limestone, brown, dense hard, cherty looking. Sandy limestone to very fine and limey sandstone hard, tight, and gray.
Graneros Shale	4237	267				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						Sandstone, very fine to fine and well sorted grains angular to subangular, light gray where barren, mostly noncalcareous, little or no cementation.
"D"	4524	74				
"J"	4598	183				
Schlumberger T. D.	4734					
Driller's T. D.	4781					

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SHEET No. 2

District Casper--Padrona Owner The Texas Company Farm A. R. Todenhoft 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	534				
Niobrara Shale	3596				
Fort Hayes Ls.	3954				
Carlile Shale	4006				
Greenhorn Ls.	4230				
Nakota "D"	4524				
Nakota "J"	4598				
Schlumberger T.D.	4734				
Miller's T. D.	4781				
Estimated Base of "J" Sand	4785				
<u>DRILL STEM TEST</u>					
T #1: April 8, 1952 4464 (failed)					
T #2: April 9 & 10, 1952 Packer set 4469' to 4491' Tool open 1 hour; Shut in 15 min. Gas to surface in 9 min. @ 800 MFPD Rec. 120' Gas Cut Mud, no show of oil or water FP - 250; SIP - 1250					
T #3: April 16, 1952 Packer set 4622' to 4636' Tool open 1 1/2 Hrs.; Shut in 15 min. Good blow, died in 50 min. Rec. 2900' water, 50' mud, no show IFP - 700; FP - 1350; SIP - 1350					
T #4: April 17, 1952 Packer set 4647' to 4656' Tool open 1 1/2 hrs, shut in 15 min. Slow blow Rec. 30' OCM, 105' Water FP - 0; SIP - 1200					
T #5: April 23, 1952 Packer set at 4657' to 4665' Tool open 1 1/2 Hrs, Shut in 15 min. Rec. 15' Drilling mud, no show FP - 0; SIP - 0;					
T #6: April 23, 1952 Packer set at 4669' to 4682' Tool open 1 1/2 Hrs, Shut in 15 min. Rec. 145' water, no show FP - 0; SIP - 1300;					

LOG OF WELL

SHEET No. 4District Casper--Padroni Owner The Texas Company Farm A. R. Todenhoft Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
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DST #7: April 24, 1952
 Packer set 4696' to 4738'
 Tool open 1 hour; shut in 15 min.
 Rec. 2730' water w/very slight gas show, no show of oil, no gas to surface.
 IFP - 800; FFP - 1250; SIP - 1250

CORE RECORDCore #1, from 4468' to 4478'

4468 - 4474 6

4474 - 4478 4

Cut 10'; Rec. 10'

VF in top foot, silt st, lam shaly, hd & tite, about 1/2 shale & 1/2 silt st.

silt st, shaly, w/coal fracture, appears wet, no shows.

Core #2, from 4478' to 4508'

4478 - 4479 1

4479 - 4485 6

4485 - 4486 1

4486 - 4487 1

4487 - 4488 1

4488 - 4489 1

4489 - 4494 5

4494 - 4496 2

4496 - 4500 4

4500 - 4508 8

Cut 30'; Rec. 30'

sd coal frac.

sdy sh barren

silt st, hd, tite, barren

sd st, porous, good stain & odor

as above w/VF

shy sd, VF barren

sdy sh barren

blk sh.

sdy sh, barren

sd fn gr, porous w/very small amount sh, appears wet.

Core #3, from 4566' to 4576'

4566 - 4568 2

4568 - 4576 8

Cut 10'; Rec. 10'

blk shale, rotten

blk sh

Core #4, from 4576' to 4586'

4576 - 4585 9

4585 - 4586 1

Cut 10'; Rec. 9'

blk sh

Lost

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SHEET No. 5District Casper--Padroni Owner The Texas Company Farm A. R. Todenhoft Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>Core #5, from 4586' to 4596'</u>					
4586 - 4593	7				<u>Cut 10'; Rec. 10'</u> blk sh, small amt. of bent. streaks.
4593 - 4594	1				as above with VF
4594 - 4596	2				black shale
<u>Core #6, from 4596' to 4606'</u>					
4596 - 4598	2				<u>Cut 10'; Rec. 10'</u> shale hard blue
4598 - 4604	6				siltstone hd w/VF barren
4604 - 4606	2				sh bl, rotten
<u>Core #7, from 4606' to 4616'</u>					
4606 - 4616	10				<u>Cut 10'; Rec. 10'</u> sandy sh, barren
<u>Core #8, from 4616' to 4626'</u>					
4616 - 4621	5				<u>Cut 10'; Rec. 10'</u> sdy sh, no frac, hd, tite
4621 - 4622	1				hd, tite, bl sh.
4622 - 4623	1				shy sd, fn gr, hd, tite, barren, no stain or odor, VF
4623 - 4624	1				sd sh, sd, hd, tite, barren, VF
4624 - 4626	2				sd sh, sd, fn gr, some porosity, good stain & odor, VF
<u>Core #9, from 4626' to 4636'</u>					
4626 - 4627	1				<u>Cut 10'; Rec. 10'</u> blk sh w/thin sd lens.
4727 - 4736	9				sd, fn to med gr, VF, good por, good stain sat & odor.
<u>Core #10, from 4636' to 4656'</u>					
4636 - 4638	2				<u>Cut 20'; Rec. 20'</u> sd fn gr, good stain & odor, VF, bleeding oil
4638 - 4646	8				sh blk, small sd lenses
4646 - 4648	2				alternating layers thin sd & sh. sd is hd, tite, barren
4648 - 4650	2				sd v fn, gr, hd, good stain & odor.

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SHEET No. 6District Casper--Padroni Owner The Texas Company Farm A. R. Todenhoft Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>Core #10, from 4636' to 4656' (cont.)</u>					
4650 - 4651	1				alternating sd & sh
4651 - 4653	2				sd, coarse gr, good por, good stain & odor, bleeding core.
4653 - 4656	3				siltstone & sh, barren
<u>Core #11, from 4656' to 4671'</u>					
4656 - 4657	1				<u>Cut 15'; Rec. 15'</u> sd fn gr, no odor or stain, appears wet.
4657 - 4659	2				shale gray
4659 - 4662	3				sd w/sh stks med gr, hd, small odor, appears wet.
4662 - 4669	7				sh dark gy
4669 - 4671	2				sd fn gr, good visible porosity, no odor or stain, appears wet.
<u>Core #12, from 4671' to 4717'</u>					
4671 - 4682	11				<u>Cut 46'; Rec. 46'</u> sand fn gr, med hd, no odor or stain, appears wet.
4682 - 4687	5				shale dk, gy
4687 - 4692	5				sd fn gr, med hd, no odor or stain, appears wet.
4692 - 4693	1				as above w/thin sh stks and fractured.
4693 - 4705	12				snd fn gr w/thin sh & carb. lam., no stain or odor. appears wet.
4705 - 4708	3				sh dk gy
4708 - 4714	6				sandy sh, hd, w/fracturing @ 4712
4714 - 4717	3				sand fn gr w/thin sh & carb. material lam., no odor or stain, appears wet.

LOG OF WELL

SHEET No. 7

District Casper--Padroni Owner The Texas Company Farm A. R. Todenhoft Well No. 1

FORMATION	AMOUNT	COLOR	HARD OR SOFT	DEPTH CORES TAKEN	REMARKS
<u>Core #13, from 4738' to 4781'</u>					<u>Cut 43'; Rec. 43'</u>
4738 - 4749	11				sand shaly fn grain, tite, no odor or stain, appears wet.
4749 - 4756	7				sand & sh aprox. $\frac{1}{2}$ each, sand tite v fn grn, appears wet, no odor or stain.
4756 - 4761	5				sand fn gr, some sh, lam, no odor or stain, appears wet.
4761 - 4781	20				siltstone and sh, barren.