



00209119

9-7N-53W

I

WELL DATA

OPERATOR: Plains Exploration Company

WELL NAME: Lebsack No. 1

LOCATION: 330° FEL & 2320° FSL, Section 9, T 7 N, R 53 W

FIELD: Wildcat

STATUS: Dry and abandoned

ELEVATION: 4062' Ground (Powers)
4070' Kelly Bushing
(All depths used in report are from Kelly Bushing)

CONTRACTOR: Exeter Drilling Company, Rig No. 6

SPUD DATE: September 28, 1970

CASING: Set 121' of 8 5/8" surface casing at 131' KB, cemented to surface with 125 sacks.

TOTAL DEPTH: 4770' Driller
4770' Dresser Atlas

LOGS RUN: Dresser Atlas IES 131' - 4770'

DRILL STEM TESTS: None

BIT RECORD:

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>IN</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	7 7/8"	Reed	YT3A	131	3073	2942	19 1/2
2	7 7/8"	Reed	YT3	3073	4254	1181	16 1/2
3	7 7/8"	STC	DT	4254	4714	460	12 3/4
4	7 7/8"	Sec.	M4N	4714	4770	56	4 1/2

MUD RECORD:

<u>DATE</u>	<u>GEL</u>	<u>CAUSTIC</u>	<u>QUEBRACHO</u>	<u>SODA ASH</u>	<u>DD</u>
9/29/70					2 cans
9/30/70	55 ex.	165#	450#	225#	2 cans
10/1/70	55 ex.	40#	100#	50#	
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TOTAL	110 ex.	205#	550#	275#	4 cans

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FORMATION TOPS: (Adjusted to Dresser Atlas measurements)

Elevation: 4062' GR
4070' KB

Niobrara	3776	(+294)
Carlile	4199	(- 89)
Greenhorn	4347	(-270)
Bentonite	4508	(-438)
"D" Sand	4604	(-534)
"J" Sand	4696	(-626)

Total Depth 4770' Driller 4770' Dresser Atlas

WELL HISTORY

- 9/28/70 Rigged up and drilled 12 1/4" hole to 131'. Set 121' of 8 5/8" surface casing at 131' KB, cemented to surface with 125 sacks. Plug down at 2:00 P.M. Drilled 7 7/8" hole to 861' with water.
- 9/29/70 Drilled 7 7/8" hole to 3375'. Pulled Bit No. 1 at 3073'. The drift is 0° at 1010', 3/4° at 2027' and 1° at 2955' and at 3073'. Added 2 cans of DD.
- 9/30/70 Drilled 7 7/8" hole to 4602'. Pulled Bit No. 2 at 4254'. The drift is 3/4° at 4196'. Mudded up with 55 sacks of gel, 165 lbs. of caustic, 450 lbs. of quebracho, 225 lbs. of soda ash and 2 cans of DD. The mud weight is 9.5, the funnel viscosity is 44 and the water loss is 6.7.
- 10/1/70 Drilled 7 7/8" hole to TD of 4770'. Pulled Bit No. 3 at 4714'. Added 55 sacks of gel, 40 lbs. of caustic, 100 lbs. of quebracho and 50 lbs. of soda ash. At TD, the mud weight is 9.9 and the funnel viscosity is 70. The "D" Sand samples consisted of sandstone with low porosity and no shows. Most of the "J₁" samples were tight sandstone without shows. Shows were noted in some sand which was friable, but which microscopically displayed little or no porosity. Contrary to the expected, the better shows were found near the top of the zone. Started out of hole to run logs. Hit tight spot in Niobrara so went back to bottom to circulate. Came out of hole to log. Logger hit bridge at approximately 2500'. Went back in to clean up hole.
- 10/2/70 Ran Dresser Atlas IES to TD. On basis of log character, structural position and samples noted in "J₁", decided to abandon well. Received permission from the Colorado Oil and Gas Commission to plug with 15 sacks at the bottom and 10 sacks at the top of the surface casing. Rig released at approximately 3:30 A.M.

III

LITHOLOGY

Note: Samples not lagged back.

4600-4610 Shale, gray to dark gray.

"D" Sand

4610-4615 Shale, as above; trace sandstone, light gray to buff, fine grain, low porosity, hard, slightly glauconitic, no show.

4615-4620 Sandstone, as above, no show; sandstone, tan, fine to medium grain, low porosity, trace of pyrite, glauconite and carbonaceous laminae, no show.

4620-4630 Sandstone, buff, medium grain, tight to low porosity, friable to moderately hard, some shale laminae and inclusions, no show.

4630 Circulated 45 Minutes

15 Minute Circulated Sample

Siltstone, gray, soft, dirty.

30 Minute Circulated Sample

Siltstone, light gray, very hard, carbonaceous inclusions and laminae.

45 Minute Circulated Sample

Siltstone, as above.

4630-4650 Siltstone, as above.

4650-4660 Shale, gray to dark gray; trace siltstone, as above.

4660-4680 Shale, as above.

4680-4700 Siltstone, light gray, moderately hard, dirty; shale, brown, hard, very silty.

"J" Sand

4700-4710 Sandstone, white to light gray, fine to medium grain, tight, part clay matrix, part quartzitic, sideritic, no show; sandstone, light gray, fine grain, tight to very low porosity, some clay matrix, hard, sideritic, excellent fluorescence, good cut, no stain.

4710-4714

Sandstone, gray to dark gray, medium grain, tight, quartzitic, sideritic, no show; sandstone, with clay matrix, as above, no show; trace sandstone, light gray, fine grain, tight, part clay matrix, dirty, good fluorescence and cut, no stain.

4714

Circulated 60 Minutes

20 Minute Circulated Sample

Sandstone, light gray, fine grain, tight, quartzitic, sideritic, no show; trace sandstone, light gray, fine to medium grain, tight, hard, slightly sideritic, good fluorescence and cut, spotty stain.

40 Minute Circulated Sample

Sandstone, tight, as above, no show; trace sandstone, light gray to buff, fine grain, low porosity, part friable, part hard, slightly sideritic, good fluorescence and cut, spotty stain.

60 Minute Circulated Sample

Sandstone, tight, as above, no show; trace sandstone, with show, as above.

4714-4720

Sandstone, light gray, fine to medium grain, tight, part quartzitic, part clay matrix, some siderite, no show; trace sandstone, buff, fine grain, tight, hard, slightly sideritic, good fluorescence, no visible stain.

4720-4725

Sandstone, tight, as above, no show; sandstone, light gray, medium grain, low porosity, friable to moderately hard, clean, no show; trace sandstone, buff, fine grain, tight, hard, slightly glauconitic and sideritic, good fluorescence, no stain.

4725

Circulated 60 Minutes

20 Minute Circulated Sample

Sandstone, light gray, medium to coarse grain, tight, part quartzitic, part clay matrix, glauconitic, no show; sandstone, light gray, medium to coarse grain, fair porosity, friable, clean, no show; trace sandstone, with fluorescence, as above.

40 Minute Circulated Sample

Sandstone, quartzitic, clay matrix, as above; sandstone, light gray, medium to coarse grain, low porosity, moderately friable, sideritic, no show; trace sandstone, with fluorescence, as above.

60 Minute Circulated Sample

Sandstone, light gray to gray, medium to coarse grain, low porosity, shale laminae and inclusions, trace with clay matrix, no show; trace sandstone, with fluorescence, as above.

4725-4730

Sandstone, light gray to buff, fine to medium grain, tight to low porosity, some siderite, no show.

4730-4735

Sandstone, light gray, fine to medium grain, tight, part clay matrix, part quartzitic, sideritic, slightly glauconitic, no show.

4735-4740

Sandstone, brown, coarse grain, quartzitic, no show; sandstone, light gray, fine grain, tight, calcareous matrix, slightly sideritic, no show; trace sandstone, buff, medium to coarse grain, tight, moderately hard, good fluorescence, possible light stain.

4740-4745

Quartzite, dark gray to brown, no show.

4745-4750

Some sandstone, light gray, fine to medium grain, tight, part clay matrix, part quartzitic, no show; trace sandstone, light gray, fine grain, tight, hard, sideritic, slightly glauconitic, good fluorescence, no stain.

4750-4755

Trace sandstone, light gray, fine grain, tight, clay matrix, slightly sideritic, no show. (Very little sand in sample)

4755-4760

No sand in sample.

4760-4765

Sandstone, white to buff, medium to coarse grain, some good porosity, part clay matrix, moderately friable, no show.

4765-4770

Sandstone, white to light gray, fine to medium grain, tight, clay matrix, some carbonaceous laminae, friable to moderately hard, no show.

4770

Circulated 60 Minutes

20 Minute Circulated Sample

Sandstone, as above, no show; sandstone, buff, fine grain, poor to fair porosity, very friable, clean, wet, no show.

40 Minute Circulated Sample

Sandstone, with clay matrix, as above, no show.

60 Minute Circulated Sample

Hole clean-no sample in trap.

R. H. Bergman