



00264685

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JUL 18 1977

COL. OIL & GAS CONS. COMM.

I

WELL DATA

OPERATOR: Chieftain International and Exeter Northern
WELL NAME: No. 1 Rieke
LOCATION: C NW $\frac{1}{2}$ NW $\frac{1}{2}$ of Section 5, T 9 N, R 54 W,
Logan County, Colorado
FIELD: Wildcat
STATUS: Plugged and abandoned
ELEVATION: 4225' Ground (Powers)
4236' Kelly Bushing
(All depths in report are from Kelly Bushing)
CONTRACTOR: Exeter Drilling Company, Rig No. 13
SPUD DATE: June 9, 1977
CASING: Set 100' of 8 5/8" surface casing at 111' KB,
cemented to surface with 95 sacks.
TOTAL DEPTH: 5302' Driller
5302' Dresser Atlas
LOGS RUN: Dresser Atlas Induction Electrollog -
110' to 5302'
Dresser Atlas Densilog-Gamma Ray -
4990' to 5302'
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"	SEC	S3J	111	3839	3728	26 1/4
2	7 7/8"	STC	DT	3839	5121	1282	20 1/4
3	7 7/8"	HTC	OSC1G	5121	5245	144	15 1/2
4	7 7/8"	HTC	OW4J	5245	5302	57	4 1/2

II

WELL HISTORY

- 6/ 9/77 Rigged up and drilled 12 1/4" hole to 111'. Set 100' of 8 5/8" surface casing at 111' KB with 95 sacks of cement. Plug down at noon. Drilled plug at 3:00 P.M. and drilled 7 7/8" hole to 1784'. The drift was 1/2° at 990'. Added 75 pounds of Oilfos.
- 6/10/77 Drilled 7 7/8" hole to 3839' where Bit No. 1 was pulled. The drift was 1/4° at 2010' and at 3029' and 1/2° at 3839'. Added 200 pounds of Oilfos and 10 gallons of Magconate.
- 6/11/77 Drilled 7 7/8" hole to 5121' where Bit No. 2 was pulled. The drift was 3/4°. Topped the "D" sand at 5119' and circulated up "D" cuttings at 5121' prior to the trip. Mudded up with 40 sacks of Gilsonite, 8 cans of Magconate and 25 pounds of Oilfos. The mud weight was 9.0, the funnel viscosity was 30 and the water loss was 6.4.
- 6/12/77 Drilled 7 7/8" hole to 5245' where Bit No. 3 was pulled. Had circulated for "D" samples at 5130'. Circulated for "J" samples at 5245', prior to the trip. At 7:00 A.M., the mud weight was 9.8, the funnel viscosity was 34 and the water loss was 5.2. At 8:00 P.M., the funnel viscosity was 49.
- 6/13/77 Completed trip for Bit No. 4 and drilled 7 7/8" hole to total depth of 5302'. Circulated for "J" samples at 5265' and at total depth. The funnel viscosity was 50. Came out of hole and ran Dresser Atlas logs. Data available from the cuttings and log analyses revealed no zones which merited further evaluation and that the well should be abandoned. Frank Piro, Colorado Oil and Gas Commission, instructed that the well be plugged with 15 sacks of cement in the bottom of the surface casing and 10 sacks in the top. Exeter's representative was so advised and the rig was released at 5:30 P.M.

MUD RECORD:

<u>DATE</u>	<u>GILSONITE</u>	<u>MAGCONATE</u>	<u>OILFOS</u>
6/ 9/77			75 lbs.
6/10/77		2 cans	200 lbs.
6/11/77	40 sx	8 cans	25 lbs.
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TOTAL	40 sx	10 cans	330 lbs.

FORMATION TOPS: (Adjucted to Dresser Atlas measurements)

Elevation: 4225' GL
4236' KB

Niobrara	4354	(-118)
Ft. Hays	4620	(-384)
Carlile	4674	(-438)
Greenhorn	4868	(-632)
Bentonite	5019	(-783)
"D" sand	5118	(-882)
"J" sand	5222	(-986)

Total depth	5302' Driller	5302' Dresser Atlas
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III

LITHOLOGY

Note: Sample intervals lagged back.

5110-5121 Shale, dark gray and black.

"D" sand

5121 Circulated 45 Minutes for Samples

15 Minute Circulated Sample

Shale, as above; trace sandstone, light gray and gray, fine and medium grain, low porosity, hard, part very pyritic, trace shale laminae, no show.

30 Minute Circulated Sample

Sandstone, gray and dark gray, low porosity, friable and moderately friable, part clean, part shaly, dirty, no show.

45 Minute Circulated Sample

Sandstone, as above, no show; sandstone, buff, fine grain, porous, very friable, clean, slightly glauconitic, no show.

5121-5130 Poor sample following trip. Trace sandstone, buff, porous, no show, as above.

5130 Circulated 45 Minutes for Samples

15 Minute Circulated Sample

Sandstone, buff and light gray, fine grain, very low to fair porosity, friable to hard with some siliceous overgrowth, clean, slightly glauconitic, no show; sandstone, gray and light gray, fine grain, tight, moderately hard and hard, some shale laminae, some with clay matrix, no show.

30 Minute Circulated Sample

Very little sandstone in sample. Trace sandstone, buff and light gray, no show, as above.

45 Minute Circulated Sample

Trace sandstone, buff, no show, as above; sandstone, light gray, fine grain, tight, hard, clay matrix, shale laminae, no show.

- 5130-5140 Sandstone, light gray, quartzitic, tight, hard, clean, no show; sandstone, light gray, fine grain, tight, moderately friable, pyritic, no show.
- 5140-5150 Siltstone and sandstone, very fine grain, light gray and gray, moderately friable, dirty; trace sandstone, quartzitic, as above; trace sandstone, pyritic, as above.
- 5150-5160 Sandstone, white and light gray, very fine grain, tight, moderately hard and hard, clay matrix, no show; sandstone, buff, very fine and fine grain, tight, moderately friable to moderately hard, part dirty, no show.

Huntsman
shale

- 5160-5230 Shale, dark gray and black.

"J" sand

- 5230-5240 Sandstone, light gray, fine grain to semi quartzitic, tight, moderately hard and hard, with trace friable, clean, trace glauconitic and sideritic, no show; sandstone, light gray, fine grain, low porosity, friable to moderately friable, clean, slightly glauconitic, no show; sandstone, light gray and gray, very fine grain, tight, hard, clay matrix, no show.

5245 Circulated 45 Minutes for Samples

15 Minute Circulated Sample

Sandstone, light gray and buff, fine grain to semi quartzitic, tight, hard, most clean, slightly sideritic and glauconitic, no show.

30 Minute Circulated Sample

Sandstone, as above; sandstone, light gray, fine grain, low porosity, friable, clean, slightly glauconitic, no show.

45 Minute Circulated Sample

Shale, dark gray and black.

- 5245-5250 Siltstone, buff, very hard and dense, excellent fluorescence, no stain or cut.
- 5250-5260 Trace siltstone, with fluorescence, no stain or cut, as above; siltstone and sandstone, very fine grain, white, hard and tight, clay matrix, no show.
- 5265 Circulated 45 Minutes for Samples
15 Minute Circulated Sample
Siltstone and sandstone, white, as above.
30 Minute Circulated Sample
Trace sandstone, light gray, fine grain, tight, friable, clay matrix, no show.
45 Minute Circulated Sample
Sandstone, white, fine and medium grain, tight, hard, clay matrix, no show.
- 5270-5280 Sandstone, light gray, fine grain, tight, hard, clean, sideritic, no show; siltstone, brown, very hard with conchoidal break.
- 5280-5290 Sandstone, dark gray and salt and pepper, fine grain, low porosity, very friable to hard, no show.
- 5290-5302 Sandstone, salt and pepper, as above; trace sandstone, light gray and white, fine and medium grain, tight, clay matrix, no show; trace sandstone, gray, fine grain, porous, friable, clean, no show.

A. L. Bergman.