



*File*  
GEOLOGICAL WELL  
REPORT

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MAY 22 1981

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COLO. OIL & GAS CONS. COMM.

Quest Oil Company

#1 Greener

NW NW Sec. 20 T2N R54W

Washington County, Colorado

WR	
BP	
HM	
AM	✓
LD	✓
RLS	
CGM	

TITLE PAGE-STOCK NO. 100TP



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CHRONOLOGY AT 8:00 A.M.

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4-28-81 Drilled out from under surface casing at 140'  
 4-29-81 Drilling at 2944' native mud made 2794'  
 4-30-81 Drilling at 4240' native mud made 1446'  
 5-1-81 Drilling at 4980' chemical mud TOTAL DEPTH made 740'  
 5-2-81 Drilled to Total Depth of 5080' made 100' prepared  
 for running Electric Logs and DST.  
 Total Depth Driller 5080'  
 Schlumberger 5083'

FORMATION TOPS

(By Sample and Drilling Time)

<u>FORMATION</u>	<u>SAMPLE</u>	<u>LOG</u>
Niobrara	4055'	4052'
Greenhorn		4554'
"D" Sand	4875'	4875'
"J" Sand	4953'	4945' **

\*\* Note 3' difference in driller depth and  
 Schlumberger depth 3' deeper

X

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WELL DATA

Well Name: #1 Greener  
Contractor: Exeter Drilling Co.  
Rig No: Rig 5  
Elevation: 4536 Ground Level  
4547 K. B. Level  
Permit No: 81-613  
AP No: 051219655  
Spud Date: April 28, 1981  
Completed Date: May 2, 1981  
Total Depth: 5083 Schlumberger  
5080 Driller  
Surface Casing: Set 8 5/8" at at 150' with 150 sacks cement  
Logs: Schlumberger Electric Induction - SFL and  
Gamma-Gamma compensated formation density  
log - open hole  
Tests: DST Double Packer 4940 to 4946 to 4962 - testing  
16 foot interval Tool open ed with fair to good  
blow increased to bottom of bucket in 2 minutes  
good blow through out, Pre flow 2nd open, opened  
with fair blow to bottom of bucket in 3 1/2 minutes  
good blow for 40 minutes slowly started to decreasing  
Dead in 1 hour an d 10 minutes, Recovered 1920 feet  
of fluid, 200 ft of muddy water - 1720 ft of water.  
no oilcut no gas to surface.  
Samples: Circulated at 4885 "D" Sand and 4895' "D"- Circulated  
at 4964' "J" Sand and at total depth to condition hole  
for running electric logs and Drill Stem Tests.

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## INTERPRETIVE SAMPLE DESCRIPTION

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4/30/81 to 5/2/81



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4055' Possible Niobrara Top

- 4720' Shale gray brown, oolitic inclusions, abundance of free Quartz grains, some siltstone, gray limey, sandy, spotted mineral florescence, N.S.
- 4720' to 4740' Shale, gray to brown, oolitic inclusions, abundance of free Quartz grains, limey, trace limestone and siltstone, trace white fine grained glauconitic sand, mineral florescence, N.S.
- 4740' to 4760' Shale, gray to brown, oolitic inclusions, limey, siltstone, trace of free Quartz grains, trace limestone and calcite, mineral florescence, N.S.
- 4760' to 4770' Shale, gray-brown, limey, sandy, some oolitic inclusions, trace siltstone, trace free Quartz grains, trace limestone, mineral florescence, N.S.
- 4770' to 4780' Shale, gray dark to light limey, sandy, trace limestone, trace siltstone, trace free Quartz grains, mineral florescence, N.S.
- 4780' to 4790' Shale, dark to light gray-brown, oolitic, limey, sandy, trace calcite, some sand very fine grained, N.S.
- 4790' to 4800' Shale, dark to light gray, limey, sandy, siltstone gray, trace free Quartz, trace limestone and calcite, mineral florescence, N.S.
- 4800' to 4810' Shale, dark to light gray, limey, sandy, siltstone, gray, trace limestone and free Quartz, trace sand gray to white, very fine grained, mineral florescence, N.S.
- 4810' to 4820' Shale, dark to light gray, limey, sandy, siltstone gray, trace calcite and pyrite, trace very fine grained sand, spot mineral florescence, N.S.
- 4820' to 4830' Shale, dark to light gray, sandy, limey, siltstone gray, trace calcite, trace gray sand, mineral florescence, N.S.
- 4830' to 4840' Shale, dark gray, sandy, limey, trace calcite, trace limestone, trace very fine grained gray sand, mineral florescence, N.S.
- 4840' to 4850' Shale, dark gray, sandy, limey, trace siltstone, trace limestone and calcite, trace very fine grained sand, mineral florescence, N.S.
- 4850' to 4860' Shale, dark gray, sandy, limey, trace pyrite and calcite, trace very fine grained sand - gray, N.S.



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4860' to 4870' Shale, gray, sandy, limey, trace calcite, trace free Quartz, trace sand - very fine grained, mineral florescence, N.S. MF

Top "D" Sand Drill Time 4875'

4885'                      Circulated 15 min.      Shale, gray, sandy, limey, trace very fine grained gray sand, trace calcite, mineral florescence, N.S.

SCANNED                      30 min.      Shale with trace white to gray fine grained subangular sand with trace calcite, no visible staining, tight, mineral florescence, N.S.

   45 min.      Shale and sand, white sand very fine grained subangular to rounded, siliceously cemented, no visible staining, trace calcite, mineral florescence, N.S.

   1 hr.      Shale and sand, sand white, very fine grained subangular to rounded, siliceously cemented tight. Note: No visible staining except one small piece had spot florescence

4895'                      Circulated 15 min.      Sand, white-gray, very fine grained subangular to rounded, siliceously cemented, no visible staining, mineral florescence, N.S.

   30 min.      Shale, sand, siltstone - sand very fine grained white to gray subangular to rounded, siliceously cemented tight, trace calcite, no visible staining, mineral florescence, N.S. no cut

   45 min.      Shale, sand, siltstone-sand very fine grained white to gray, subangular to rounded, siliceously cemented tight, trace of pyrite and calcite, no visible staining, mineral florescence, N.S.

   1 hr.      Shale, sand, siltstone - sand gray-white, very fine grained, subangular to rounded; siliceously cemented, trace calcite and pyrite, mineral florescence, no visible staining, N.S.

4900' to 4910'      Shale and sand, siltstone, sand - white-gray, very fine grained subangular to rounded, tight, siliceously cemented, trace calcite mineral florescence, N.S., no cut - checked viscosity, 35, poor

4910' to 4920'      Shale, sand, siltstone - sand, white-gray, very fine grained, subangular to rounded, non-porous, siliceously cemented, no visible stain, no cut, mineral florescence, N.S. Samples are poor, viscosity low - 35 - must have water flow in hole ??

4920' to 4930'      Shale, sand, siltstone - sand gray, very fine grained subangular, dense, non-porous, mineral florescence, no staining, N.S. Water pump broke - Note: Samples not very good

4930' to 4940'      Shale, gray, limey, silty, siltstone, gray sandy





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4940' to 4950' Shale - Note large chip cuttings, looks like cavings from up hole, viscosity only 35, can't seem to get viscosity up?

Possible "J" Top 4953'

4964' Circulated 20 min. Shale, large cavings like gray limey, sandy only few scattered pieces of gray-white, very fine grained sand, trace calcite, N.S. - viscosity 35, trying to build up mud

45 min. Large, thumb-size pieces, limey, sandy, gray, some look like cavings, few pieces of white to gray, very fine grained sand, trace of calcite, N.S. - trying to build viscosity of mud

Mud coming up at various viscosities, 35, 40, 50, etc. - circulated 1 hour and 15 min., trip in for new bit

4970' to 4980' After bit change - shale, sand, siltstone, trace calcite and pyrite - shale, gray, limey, sandy - sand very fine grained gray, siliceously cemented, N.S.

4980' to 4990' Shale, trace sand, siltstone, trace calcite and pyrite, sand very fine grained gray subangular, trace free quartz, N.S.

4990' to 5000' Sand, shale, siltstone - sand very fine grained gray subangular to rounded, some free quartz, mineral fluorescence, N.S.

5000' to 5010' Shale, sand, siltstone - sand very fine grained gray subangular to rounded, some free quartz, mineral fluorescence, no visible staining, N.S.

5010' to 5020' Shale, sand, siltstone - sand very fine grained white to gray subangular, porous, trace calcite, N.S.

5020' to 5030' Shale, sand, siltstone - sand gray subangular grained, porous, friable, no staining, trace pyrite and calcite, spot fluorescence, some free quartz

5030' to 5040' Shale, sand, siltstone - sand gray subangular grained, porous, friable, no visible staining, spot fluorescence, no cut, trace pyrite and calcite, free quartz

5040' to 5050' Shale, sand, siltstone - sand white to gray subangular, porous, abundance of free quartz grains, no visible staining, no cut, dull, spot fluorescence ??

5050' to 5060' Shale, sand, siltstone - sand white to gray subangular to rounded, porous, some free quartz

5060' to 5070' Shale, sand, siltstone - sand white to gray subangular to rounded, porous, some free quartz

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