

20-8N-50W

R. W. MCDOWELL, JR.

PETROLEUM GEOLOGIST
AND
GEOLOGICAL ENGINEER

785 HOLLY STREET

TELEPHONE EAST 2536

DENVER 20, COLORADO

August 12, 1953



Mr. Eric Waring
Helmerich and Payne Drilling Company
First National Bank Building
Tulsa, Oklahoma

Dear Mr. Waring:

Following are my tops picked from the electric log and drill stem and core information for the recently plugged White Eagle #1 Colorado, Logan County, Colorado.

Niobrara	3644 (+701)
Ft. Hayes	3914 (+431)
Codell sand	3991 (+354)
Carlyle	4013 (+332)
Greenhorn	4219 (+126)
"D" sand	4462 (-117)
"J" sand	4568 (-223)
Skull Creek	4777 (-432) (tentative)

DST #1: 4461-92, open one hour, shut in 15 minutes, recovered 1125 feet of very slightly mud cut fresh water, slightly gas cut at the bottom. Fair blow of air immediately diminishing throughout test. F.P. 140-460. B.H.P. 870. Hydrostatic 2530.

DST #2: 4587-4610, open one hour, shut in 15 minutes, recovered 230 feet of muddy water. Light blow of air immediately throughout test. F.P. 130-135. B.H.P. 820. Hydrostatic 2630.

Core #1: 4464-92, recovered 28 feet.

State #1
Est. Muddy 4521
" J 4624

- 1 1/2' reworked sand and shale, hard
- 2' hard fine tight water sand
- 5' reworked sand and shale
- 4' gray fine water sand
- 4' laminated sand and shale
- 3' shale, gray to black
- 2' soft rotten gray shale
- 1' fine water sand with a few gas bubbles and a trace of spotted oil
- 1' reworked shale
- 1 1/2' laminated sand and shale
- 2' hard fine white water sand with few gas bubbles

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1/2' hard fine gray tight water sand.
Some spotted stain

Core #2: 4560-4610, recovered 50 feet.

- 5' hard gray slightly fossiliferous shale
- 6' hard tight reworked fossiliferous reworked sand and shale
- 7' soft rotten gray shale
- 7' very hard tight fine quartzitic sand stone
- 3' sand and shale interbedded
- 4 3/4' dark gray fossiliferous shale
- 4' reworked sand and shale
- 6' gray medium water sand
- 1/2' black shale
- 3 1/2' soft gray water sand
- 5' fine gray highly argillaceous water sand with interbedded shale
- 4' laminated silt stone and shale
- 1' dark gray shale

Core #3: 4610-50.

- 6' hard dark gray shale
- 15 1/2' soft rotten dark gray to black shale
- 3' shaley dark gray tight sandstone
- 5 1/2' soft rotten dark gray to black shale
- 10' very hard reworked shaley sand very tight water bearing

I am enclosing as you requested a field print of the Schlumberger. As soon as possible I shall make up and forward to you a complete report of this well including drilling time from the geograph and sample log.

I enjoyed very much working with Mr. Copeland and I am looking forward to further association with him and Helmerich and Payne.

Very truly yours,

R. W. McDowell, Jr.
R. W. McDowell, Jr.

HWM:pfm
Enc.