GEOLOGIST'S REPORT

Baseball LLC — Mahaffey #1-20 — 20 — 32S — 32W — Meade — Kansas

Spud 9-15-2025 — Rig 2 — Elev. 2598 KB — 2590 GL

Contractor: Duke Drilling Co. — Rig #2 — Type: Mud Rotary — Size: 7 7/8" — Rotary Total Depth: 6950 — Driller: Bill, Jeff, Jason — Logged Interval: 4300 to 6950 — Type: Wet & Dry — Geologist: Brandon Nellis

Surface Casing: 8 5/8" @ 1624 with 650 sks Class A, 2% gel, 3% CC, 1/4# Flocele — Production Casing: 4 1/2" @ 6950 with 175 sks ASC, 5# Kol-Seal, 1/4# Flocele — Cement: Basic Energy Services — Centralizers: 1 per joint on bottom 3 joints — Baskets: 1 @ 1620 — DV Tool: 2450 — Cement: 1st stage 500 sks 60/40 Poz, 6% Gel, 1/4# Flocele; 2nd stage 150 sks 60/40 Poz, 6% Gel, 1/4# Flocele

Drill Stem Tests: 5 — Samples Saved: Yes — Drilling Time: Yes — Electric Log: Yes — Geologist: Brandon Nellis

Remarks: Fresh Rock had no unusual gas detection testing on the well from 3700 to the TD at 6950.

It is obvious the geology in this part makes oil and gas production very difficult. Not only is it tight, but there is no water drive to help it flow. Not normal, which is why we had a lot of time.

Thank you for using Bigham Geological

LITHOLOGY: LIMESTONE, DOLOMITE, SHALE, SANDSTONE, CHERT, ANHYDRITE, GYPSUM, SALT, COAL, CONGLOMERATE, GRANITE WASH, MARL, OOLITE, FOSSILIFEROUS, CALCAREOUS, SILTY, SANDY, GLAUCONITIC, PYRITIC, ARGILLACEOUS

CHROMATOGRAPH: METHANE, ETHANE, PROPANE, ISO-BUTANE, N-BUTANE, ISO-PENTANE, N-PENTANE

HOT WIRE DETECTOR: TOTAL VOLUME

DRILL TIME SCALE: 1" = 60 MIN

SAMPLE DESCRIPTION

GAS SCALE: UNITS, 1000

3700 — Top Cherty Lime Marker (-1102)

3700–3800 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

3800 — Heebner (-1202)

3800–3900 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

3900 — Lansing (-1242)

3900–4000 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4000 — Muncie Creek (-1382)

4000–4100 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4100 — Stark (-1442)

4100–4200 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4200 — Base Kansas City (-1482)

4200–4300 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4300–4400 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4400–4500 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4500–4600 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4600–4700 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4700–4800 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4800–4900 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

4900–5000 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5000–5100 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5100–5200 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5200–5300 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5300–5400 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5400–5500 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5500–5600 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5600–5700 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5700–5800 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5800–5900 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

5900–6000 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6000–6100 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6100–6200 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6200–6300 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6300–6400 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6400–6500 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6500–6600 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6600–6700 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6700–6800 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6800–6900 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

6900–6950 Limestone white/buff, soft, chalky, fossiliferous, trace dolomite, trace chert, no show

TD 4950

Bigham Tops
12 JUN 2013
In 1802 Out 4950 TD

Drill Stem:
DST #1 @ 4750'
DST #2 @ 4950'

Core Points:
1 4750 @ 4757
2 4757 @ 4787
3 4787 @ 4817
4 4817 @ 4855
5 4855 @ 4950 TD

Daily Drilling Progress:
1 1802 ft 1802 ft 1802 ft
2 1985 ft 3787 ft 3787 ft
3 1163 ft 4950 ft 4950 ft
4 ft ft ft
5 ft ft ft
6 ft ft ft
7 ft ft ft

DST#1 Log Charles 4696-4757
30-60-45-90 Strong blow BOB in 1 min
Rec 1240' GIP
1st FP 1178 to 1178 psig
1st SIP 1178 to 1178 psig
2nd FP 1178 to 1178 psig
2nd SIP 1178 to 1178 psig
HP 2344 to 2344 psig

DST#2 Cleveland 4810-4857
30-60-45-90 Strong blow BOB in 5"
No GTS
Rec 1100' mud
1st FP 1178 to 1178 psig
1st SIP 1178 to 1178 psig
2nd FP 1178 to 1178 psig
2nd SIP 1178 to 1178 psig
HP 2344 to 2344 psig

DST#3 Basal Penn Conglomerate
30-60-45-90 Strong blow BOB in 1 min
Rec 1240' GIP
1st FP 1178 to 1178 psig
1st SIP 1178 to 1178 psig
2nd FP 1178 to 1178 psig
2nd SIP 1178 to 1178 psig
HP 2344 to 2344 psig

DST#4 Viola 4900-4950
30-60-45-90 Strong blow BOB in 1 min
Rec 1240' GIP
1st FP 1178 to 1178 psig
1st SIP 1178 to 1178 psig
2nd FP 1178 to 1178 psig
2nd SIP 1178 to 1178 psig
HP 2344 to 2344 psig

DST#5 Simpson 4900-4950
30-60-45-90 Strong blow BOB in 1 min
Rec 1240' GIP
1st FP 1178 to 1178 psig
1st SIP 1178 to 1178 psig
2nd FP 1178 to 1178 psig
2nd SIP 1178 to 1178 psig
HP 2344 to 2344 psig

Depth	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	5600	5700	5800	5900	6000	6100	6200	6300	6400	6500	6600	6700	6800	6900	6950
Wells	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Rigs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Spud	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
TD	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Comp	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Elev	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598	2598
Gas	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Oil	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dry	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Operator: Baseball LLC — Lease: Mahaffey #1-20 — Elevation: 2598 KB — 2590 GL — Location: 20 — Twp: 32S — Rge: 32W — County: Meade — State: Kansas