



DIAMOND TESTING, LLC
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MILLER1-20DST4

Company Gulf Exploration, LLC Lease & Well No. Miller No. 1-20
Elevation 3320 KB Formation Cherokee Effective Pay _____ Ft. Ticket No. T546
Date 7-23-16 Sec. 20 Twp. 7S Range 35W County Thomas State Kansas
Test Approved By Mike Madcharo Diamond Representative Tim Venters

Formation Test No. 4 Interval Tested from 4,683 ft. to 4,729 ft. Total Depth 4,729 ft.
Packer Depth 4,678 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,683 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,664 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 4,726 ft. Recorder Number 11029 Cap. 5,025 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Murfin Drilling Company, Inc. - Rig 7 Drill Collar Length 187 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 59 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.0 Water Loss 6.4 cc. Drill Pipe Length 4,463 ft I.D. 3 1/2 in.
Chlorides 4,400 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 4 Anchor Length 46 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow increasing to 3 1/2 ins. No blow back during shut-in.
2nd Open: Very weak, surface blow increasing to 2 ins. No blow back during shut-in.

Recovered 20 ft. of drilling mud = .284600 bbls.
Recovered 190 ft. of muddy water = .962730 bbls. (Grind out: 53%-water; 47%-mud) Chlorides: 45,000 Ppm PH: 7.5 RW: .15 @ 96°
Recovered 210 ft. of TOTAL FLUID = 1.247330 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: Sampler Grind Out: 2,500 ml-water; 1,500 ml-mud

Time Set Packer(s) 1:55 P.M. Time Started off Bottom 4:55 P.M. Maximum Temperature 133°
Initial Hydrostatic Pressure.....(A) 2247 P.S.I.
Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 70 P.S.I.
Initial Closed In Period.....Minutes 60 (D) 1085 P.S.I.
Final Flow Period.....Minutes 30 (E) 73 P.S.I. to (F) 109 P.S.I.
Final Closed In Period.....Minutes 60 (G) 1084 P.S.I.
Final Hydrostatic Pressure.....(H) 2239 P.S.I.

GULF EXPLORATION, LLC
DST #4, CHEROKEE, 4683-4729
Start Test Date: 2016/07/23
Final Test Date: 2016/07/23

MILLER #1-20
Formation: DST #4, CHEROKEE, 4683-4729
Pool: WILDCAT
Job Number: T546

MILLER #1-20

