



DIAMOND TESTING, LLC
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MILLER1-20DST2

Company Gulf Exploration, LLC Lease & Well No. Miller No. 1-20
Elevation 3320 KB Formation Lansing/Kansas City "I-K" Effective Pay _____ Ft. Ticket No. T544
Date 7-20-16 Sec. 20 Twp. 7S Range 35W County Thomas State Kansas
Test Approved By Mike Madcharo Diamond Representative _____ Tim Venters

Formation Test No. 2 Interval Tested from 4,297 ft. to 4,380 ft. Total Depth 4,380 ft.
Packer Depth 4,292 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4,297 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,278 ft. Recorder Number 5504 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 4,377 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 9.1 Water Loss 8.0 cc. Drill Pipe Length 4,077 ft I.D. 3 1/2 in.
Chlorides 4,500 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 4 Anchor Length 20' perf. w/63' drill pipe 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: Strong, 2 in. blow increasing. Off bottom of bucket in 2 mins. No blow back during shut-in.
2nd Open: Good, 1 in. blow increasing. Off bottom of bucket in 2 mins. 45 secs. No blow back during shut-in.

Recovered 105 ft. of mud cut water = 1.494150 bbls. (Grind out: 77%-water; 23%-mud)
Recovered 500 ft. of slightly mud cut water = 7.115000 bbls. (Grind out: 97%-water; 3%-mud)
Recovered 885 ft. of water = 10.852580 bbls. (Grind out: 100%-water) Chlorides: 60,000 Ppm PH: 7.0 RW: .13 @ 79°
Recovered 1,490 ft. of TOTAL FLUID = 19.461730 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: Sampler Grind Out: 3,900 ml-water; 100 ml-mud; 70 psi

Time Set Packer(s) 8:04 P.M. Time Started off Bottom 10:34 P.M. Maximum Temperature 138°
Initial Hydrostatic Pressure.....(A) 2022 P.S.I.
Initial Flow Period.....Minutes 15 (B) 93 P.S.I. to (C) 444 P.S.I.
Initial Closed In Period.....Minutes 60 (D) 1338 P.S.I.
Final Flow Period.....Minutes 15 (E) 455 P.S.I. to (F) 714 P.S.I.
Final Closed In Period.....Minutes 60 (G) 1336 P.S.I.
Final Hydrostatic Pressure.....(H) 2008 P.S.I.

MILLER #1-20
 Formation: DST #2, LKC "I,J,K", 4297-4380
 Pool: WILDCAT
 Job Number: T544

GULF EXPLORATION, LLC
 DST #2, LKC "I,J,K", 4297-4380
 Start Test Date: 2016/07/20
 Final Test Date: 2016/07/21

MILLER #1-20

