

# LEETH EVALUATION

|                        |  |                         |  |           |  |           |  |        |  |        |  |        |  |
|------------------------|--|-------------------------|--|-----------|--|-----------|--|--------|--|--------|--|--------|--|
| Company                |  | MULL DRILLING COMPANY   |  |           |  |           |  |        |  |        |  |        |  |
| Well                   |  | CARTER-JOHNSON #1-1     |  |           |  |           |  |        |  |        |  |        |  |
| Field                  |  | PRAIRIE RIDGE NORTHWEST |  |           |  |           |  |        |  |        |  |        |  |
| County                 |  | LANE                    |  | State     |  | KANSAS    |  |        |  |        |  |        |  |
| Location               |  | SEC 1 TWP 16S RGE 27W   |  |           |  |           |  |        |  |        |  |        |  |
| Spot                   |  | 2164 FNL 200 FEL        |  |           |  |           |  |        |  |        |  |        |  |
| API Well Number        |  | 15-101-22672-0000       |  |           |  |           |  |        |  |        |  |        |  |
| Permanent Datum        |  | GROUND LEVEL            |  | Elevation |  | Elevation |  |        |  |        |  |        |  |
| Log Measured From      |  | K.B.                    |  | A.G.L.    |  | K.B.      |  |        |  |        |  |        |  |
| Drilling Measured From |  | KELLY BUSHING           |  |           |  | D.F.      |  |        |  |        |  |        |  |
|                        |  |                         |  |           |  | G.L.      |  |        |  |        |  |        |  |
| Description            |  | Zone 1                  |  | Zone 2    |  | Zone 3    |  | Zone 4 |  | Zone 5 |  | Zone 6 |  |
| Date                   |  | 05/18/22                |  |           |  |           |  |        |  |        |  |        |  |
| Top Parameter Depth    |  | 3900                    |  | 4476      |  |           |  |        |  |        |  |        |  |
| Bottom Parameter Depth |  | 4476                    |  | 4586      |  |           |  |        |  |        |  |        |  |
| Bit Size               |  | 7.875                   |  |           |  |           |  |        |  |        |  |        |  |
| BHT                    |  | 122                     |  |           |  |           |  |        |  |        |  |        |  |
| Rmf @ FT               |  | 0.9                     |  | 0.36      |  |           |  |        |  |        |  |        |  |
| Rw @ FT                |  | 0.05                    |  | 0.12      |  |           |  |        |  |        |  |        |  |
| Location               |  | WICHITA                 |  |           |  |           |  |        |  |        |  |        |  |
| Evaluation By          |  | R. LEETH                |  |           |  |           |  |        |  |        |  |        |  |
| Recommended Perf / SPF |  |                         |  |           |  |           |  |        |  |        |  |        |  |
| Recommended Perf / SPF |  |                         |  |           |  |           |  |        |  |        |  |        |  |

We do not guarantee results, nor make warranties either expressly or implied. Under no circumstances shall we be liable damages relative to this evaluation.

| LOG DATA    |                                                  | EVALUATION DATA |                                                            |
|-------------|--------------------------------------------------|-----------------|------------------------------------------------------------|
| Name        | Description                                      | Name            | Description                                                |
| DEPTH.FT    | depth                                            | DEPTH.FT        | depth                                                      |
| CNPOR.PU    | Compensated Neutron porosity                     | BIT.IN          | bit size                                                   |
| DCAL.IN     | Compensated Density caliper                      | BVWb.V/V        | bulk volume water in matrix porosity system                |
| DPOR.PU     | Compensated Density porosity                     | BVWs.V/V        | bulk volume water in secondary porosity system             |
| GR.API      | gamma ray                                        | BVWsgxo.V/V     | bulk volume water in the flushed zone system               |
| MEL15.OHM-M | 1.5 inch Microinverse resistivity                | CALI.IN         | caliper                                                    |
| MEL20.OHM-M | 2 inch Micronormal resistivity                   | Dh.G/CC         | hydrocarbon density                                        |
| MELCAL.IN   | Microlog caliper                                 | DMAA.G/CC       | apparent matrix density                                    |
| PE.         | Photoelectric Pffect                             | DSRGIP.MMCFG    | delta sum recoverable gas in place                         |
| RHOC.G/CC   | Compensated Density correction                   | DSROIP.BO       | delta sum recoverable oil in place                         |
| RILD.OHM-M  | Deep Induction resistivity                       | DSUMQg.MCFGPD   | delta sum of productive gas                                |
| RILM.OHM-M  | Medium Induction resistivity                     | DSUMQo.BOPD     | delta sum of productive oil                                |
| RLL3.OHM-M  | Short Guard resistivity                          | DSUMQw.BVPD     | delta sum of productive water                              |
| RxoRt.      | ratio of shallow resistivity to deep resistivity | GR.API          | gamma ray                                                  |
| SP.MV       | spontaneous potential                            | Khb.MD          | permeability to hydrocarbon from matrix porosity system    |
| SPOR.PU     | Sonic porosity                                   | Khs.MD          | permeability to hydrocarbon from secondary porosity system |
|             |                                                  | ms.DEC          | cementation exponent for secondary porosity system         |
|             |                                                  | OOM.DEC         | oomoldic flag                                              |
|             |                                                  | PSGC.V/V        | gas corrected sonic porosity                               |
|             |                                                  | PX.V/V          | crossplot porosity                                         |
|             |                                                  | Rds.OHMM        | calculated deep resistivity                                |
|             |                                                  | SP.MV           | spontaneous potential                                      |
|             |                                                  | SUMQg.MCFGPD    | sum of productive gas                                      |
|             |                                                  | SUMQo.BOPD      | sum of productive oil                                      |
|             |                                                  | SUMQw.BVPD      | sum of productive water                                    |
|             |                                                  | SUMRGIP.MMCFG   | sum of recoverable gas in place                            |
|             |                                                  | SUMROIP.BO      | sum of recoverable oil in place                            |
|             |                                                  | Swb.V/V         | water saturation in matrix porosity system                 |
|             |                                                  | Sws.V/V         | water saturation in secondary porosity system              |
|             |                                                  | Sxo.V/V         | water saturation of the flushed zone                       |
|             |                                                  | VSH.V/V         | shale volume                                               |





[illegible]





