



Woolsey Operating Company, LLC
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Kilgore #2
 AP: 15-097-21850-00-00
 Location: Section 20 - Township 28 South - Range 19 West
 License Number: 331668
 Spud Date: February 18, 2019
 Surface Coordinates: S/2 - S/2 - S/2
 450' FSL & 2580' FWL
 Region: Kiowa County, Kansas
 Drilling Completed: February 26, 2019

Bottom Hole Coordinates: 2287' K.B. Elevation (ft): 2299'
 Ground Elevation (ft): 4000' To: 5050' K.B. Elevation (ft): 5050'
 Type of Drilling Fluid: Shawnee >>> Mississippian

OPERATOR

Company: Woolsey Operating Company, LLC
 Address: 125 N. Market, Suite 1000
 Wichita, KS 67202

GEOLOGIST

Name: Bill Klaver
 Company: Woolsey Operating Co. LLC
 Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Spud at 1 pm on 2/18/19, set 9 joints of 10 3/4" X 32.75#/ft new casing at 400' KB. Cemented with 350 sx 60/40 poz mix (by Basic). Plug down at 7 am on 2/19/19, cement did circulate.
 Production Casing: 122 joints of 4 1/2"

Deviation Surveys: 1/2 at 402', 3/4 at 1028', 3/4 at 2040', 3/4 at 2492', 3/4 at 2992', 3/4 at 3499', 3/4 at 4008', 1 at 4515', 1 1/4 at 4918', 3/4 at 5050'
 Pine Strap @ 4918': Strap 4935.63', Board 4926.70', Strap 8.98' long, very windy morning when strapped.
 Fossil Drilling Rig 3 Bit Record:
 1) 14 3/4" Varel RR in at 0' out at 402', 4 hours
 2) 7 7/8" Hughs Tool Co. T506X in at 400' out at 2492'
 3) 7 7/8" Varel H-29 RR in at 2492', out at 2611'
 4) 7 7/8" Hughs Tool Co. HT605X in at 2611' out at 5050'

Gas Detector: Pason Systems
 Mud System: Mud-Co. Brad Bortz, Engineer
 DSTs: Trilobite Testing, Jimmy Ricketts, Tester
 E-Logs: ELI, Dual Induction Laterolog w/SP, CNL-FDC w/PE, GR and Caliper, Sonic w/GR. Jeff Luebbers, Engineer

DSTs

DST #1, Mississippi, 4954'-4918', 30"-60" -60"-60", SB GTS 4", IFP: 14" 2.77 MMCF, 24" 2.94 MMCF, 30" 2.97 MMCF, FFP: 10" 2.82 MMCF, 20" 60" 3.11 MMCF, Rec: 125' mud, 190' MCW (83%W, 11%MCW API Rw 35.7 deg, Cht: 60,000 ppm, IHP 2482, IFP 498-640, ICIP 1464, FFP 515-616, FCIP 1451- FHP 2428, BHT 115 degrees.
 DST #2 Mississippi, 4918'-4928', 30"-60" -60"-60", SB GTS 2", IFP: 30" 32.8 MCF, FFP: 30.9 MCF dec to 8.61 MMCF, Rec: 120' OMCW (9%O, 90%W, 4%M), 85' HOAMCW (1%O, 53%W, 37%M), IHP 2508, IFP 32-56, ICIP 1471, FFP 50-91, FCIP 1464, FHP 2461, BHT N/A

CREWS

Rick Barriger, Jason Barriger Tool pushers
 Pablo Luna, Days
 Chris Staats, Evening
 Raul Orozco, Morning

ROCK TYPES

- | | | | |
|----------|---------|----------|--------------|
| Anhy | Dol | Siltst | Shale 3 |
| Bent | Sand | Ss | Silty dol |
| Crc | Sily | Black sh | Dol mst |
| Bit | Algae | Arg | Earthy |
| Brecfrag | Amph | Bent | Granite wash |
| Calc | Beim | Coal | Lmst |
| Carb | Blocst | Congl | Calc dol |
| Chitdk | Branch | Sdy dolo | Shale 3 |
| Dol | Bryozoa | Lmst | |
| Ferrpel | Cephal | Mrst | |
| Glauc | Coral | Shale | |
| Gyp | Crin | Siltst | |
| Marl | Echin | Slysh | |
| Nodule | Fish | Ss 2 | |
| Phos | Foram | | |
| Pyr | Fossil | | |
| Salt | Gastro | | |
| Silty | Oolite | | |
| | Ostra | | |

ACCESSORIES

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|----------|----------|--------|
| Chlorite | Peloc | Grysh |
| Dol | Pflut | Grysl |
| Sand | Ploflite | Lms |
| Sily | Plant | Earthy |
| Algae | Strom | Sh |
| Amph | Fuss | Siltst |
| Beim | Oomoldic | |
| Blocst | STRINGER | |
| Branch | Anhy | |
| Bryozoa | Arg | |
| Cephal | Bent | |
| Coral | Coal | |
| Crin | Dol | |
| Echin | Gyp | |
| Fish | Ls | |
| Foram | Mrst | |
| Fossil | Siltst | |
| Gastro | Sstrgr | |
| Oolite | Carbsh | |
| Ostra | Cylstr | |
| | Dol | |

- MINERAL**
 Anhy, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chitdk, Chitd, Dol, Ferrpel, Glauc, Gyp, Marl, Nodule, Phos, Pyr, Salt, Silty
- FOSSIL**
 Algae, Amph, Beim, Blocst, Branch, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra
- TEXTURE**
 Boundst, Chaiky, Cysln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packet, Wackest

