



Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-035-24424-00-00

Company Range Oil Company, Inc.
Well Page #1
Field Estep North
County Cowley State Kansas

Location W/2 SE NW
1980' FNL / 1650' FWL

Sec: 21 Twp: 34S Rge: 6E

Other Services
DIL

Permanent Datum Ground Level Elevation 1315
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 6/22/2011

Run Number One
Type Log CNL / CDL
Depth Driller 3180
Depth Logger 3180
Bottom Logged Interval 3159
Top Logged Interval 1500
Type Fluid In Hole Chemical
Salinity, PPM CL 800
Density 9.3
Level Full
Max. Rec. Temp. F 108
Operating Rig Time 3 Hours
Equipment -- Location 15 Hays
Recorded By R. Barnhart
Witnessed By Frank Mize

| Borehole Record | | | | Casing Record | | | |
|-----------------|-------|------|------|---------------|------|------|-----|
| Run No. | Bit | From | To | Size | Wgt. | From | To |
| 1 | 12.25 | 00 | 317 | 8.625 | 24# | 00 | 317 |
| 2 | 7.875 | 317 | 3180 | | | | |
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Ark City, KS:
From Roundabout: 14E on 166 to Rd. 211,
2 1/2S, W into

| | | |
|---|----------------|-----|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

| | | |
|-------|---------------------|------|
| 30 | Compensated Density | -10 |
| 2 | Bulk Density | 3 |
| 15000 | Line Tension | 0 |
| -0.25 | Correction | 0.25 |
| LSPD | | |























