Well Services
E-LINE

RADIAL BOND TOOL
GAMMA RAY
CCL

Company NOBLE ENERGY
Well LINDSAY C33-1
Field WATTENBERG
County WELD
State COLORADO

Location: SEC 33 TWP 4N RGE 64W
SHL 399' FSL & 324' FWL
API # 05-123-31937
Elevation: GL 4718' KB 12'
Permanent Datum: Ground Level
Log Measured From: KB 12' Above Permanent Datum

Date 9-Sep-20
Depth Driller 3900
Depth Logger 3900
Bottom Logged Interval 3900
Top Logged Interval 3000
Casing Driller 8.625@3000
Casing Logger 3000
Bit Size 7.875
Type Fluid WBM
Density / Visc 8.34 / 34
PH 9.1
Fluid Loss 5
Source of Sample FLOWLINE
Rm @ Meas Temp 0.23 @ 72
Rmf @ Meas Temp 0.18 @ 72
Rmc @ Meas Temp 0.31 @ 72
Source of Rmf & Rmc MEASURED
Rm @ BHT 0.12 @ 160
Time Since Circulation 4.5
Time Logger on Bottom 0900 9-SEP-20
Maximum Recorded Temp 160
Equipment Number 10
Location GREELEY CO
Recorded By J.SWEARINGEN
Witnessed By MR. MARTIN

	Run Number	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller Size @ Depth	Casing Logger Size @ Depth	Bit Size	Type Fluid	Density / Visc	PH	Fluid Loss	Source of Sample	Rm @ Meas Temp	Rmf @ Meas Temp	Rmc @ Meas Temp	Source of Rmf & Rmc	Rm @ BHT	Time Since Circulation	Time Logger on Bottom	Maximum Recorded Temp	Equipment Number	Location	Recorded By	Witnessed By
Run 1	1	3900	3900	3900	3000	8.625@3000	3000	7.875	WBM	8.34 / 34	9.1	5	FLOWLINE	0.23 @ 72	0.18 @ 72	0.31 @ 72	MEASURED	0.12 @ 160	4.5	0900 9-SEP-20	160	10	GREELEY CO	J.SWEARINGEN	MR. MARTIN

Other Services

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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

RAN CBL TO VERIFY CEMENT BOND
WELL LOADED UPON ARRIVAL

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
HEADVOLT	15.02					
IntTemp	13.60					
WVF3FT	10.35		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	10.35					
WVFS1	10.35					
WVFS2	10.35					
WVFS3	10.35					
WVFS4	10.35					
WVFS5	10.35					
WVFS6	10.35					
WVFS7	10.35					
WVFS8	10.35					
WVFSFT	9.35					
CNLSC	6.00					
CNSSC	5.17		CNT-Probe_B (275) 6 bow centralizer	1.77	2.75	40.00
CCL	3.64					
GR	0.90		GR-Probe (275) Probe 2.75"	4.33	2.75	30.00

Dataset: lindsay c33-1 .db: field/well/run1/pass2
Total Length: 15.02 ft
Total Weight: 160.00 lb
O.D. 2.75 in

Database File: lindsay c33-1.db
Dataset Pathname: pass2
Presentation Format: qa_rbt
Dataset Creation: Wed Aug 19 11:56:52 2020 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

9 CCL 1 200 TT (usec) 800 0 AMP (mV) 100 0 AMPS1 100 200 VDL 1200 1 Cement Map 8

LSPD (ft/min) 0 200

200 GR (GAPI) 400 0 GR (GAPI) 200 0 AMPx5 (mV) 20 0 AMPS2 100

0 AMPS3 100
0 AMPS4 100
0 AMPS5 100
0 AMPS6 100
0 AMPS7 100
0 AMPS8 100

IntTemp (degF)

3850
3900 — 145.129
3950 — 144.331
4000 — 143.506
4050 — 142.624
4100 — 141.512
4150 — 140.139
4200 — ESTIMATED CEMENT TOP
4250 — 138.689
4300 — 137.039
4350 — 135.235
4400 — 133.243
130.913

TT
LSPD
GR
CCL
AMPS8
AMPS7
AMPS6
AMPS5
AMPS4
AMPS3
AMPS2
AMPS1
AMPx5
AMP

9 CCL 1 200 TT (usec) 800 0 AMP (mV) 100 0 AMPS1 100 200 VDL 1200 1 Cement Map 8

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IntTemp (degF)

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