



CEMENT BOND
GAMMA RAY
CCL

WELL SOLUTIONS


PATRIOT

Company NOBLE ENERGY INC		Country UNITED STATES					
Well LARSEN 1							
Field WATTENBERG							
County WELD							
State COLORADO							
Location: API # : 05-123-12989		Other Services					
SEC 32 TWP 6N RGE 64W		Elevation					
Permanent Datum		K.B. 4664					
Log Measured From		D.F. 4651					
Drilling Measured From		G.L. 4651					
Date 12-6-19							
Run Number	ONE						
Depth Driller	7011						
Depth Logger	1400						
Bottom Logged Interval	1400						
Top Log Interval	SURFACE						
Open Hole Size							
Type Fluid	WATER						
Density / Viscosity							
Max. Recorded Temp.							
Estimated Cement Top							
Time Well Ready							
Time Logger on Bottom							
Equipment Number	1016						
Location	BRIGHTON						
Recorded By	DEREK MARTIN						
Witnessed By	STEVE RECORD						
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record	Size	Mgt/Ft	Top	Bottom			
Surface String							
Prot. String							
Production String							
Liner							

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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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Titan-1.4375 1 7/16 Titan Type II Cable Head	1.03	1.44	5.00

			Tek-2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
WVFSYNC	16.00					
WVFCAL	16.00					
TEMP	14.87					
WVFS8	13.58					
WVFS7	13.58		SCBLTEKSECT-275 Temp JS (IBUCO03)	9.13	2.75	130.00
WVFS6	13.58		TekCo 2 3/4" 400 Deg. F Sector Tool with Temperature (JS)			
WVFS5	13.58					
WVFS4	13.58					
WVFS3	13.58					
WVFS2	13.58					
WVFS1	13.58					
WVF3FT	12.83					
WVF5FT	11.83					
WVFTEMP	8.50					
			Tek-2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
CCL	4.62		CCL-275tekco (257) Tekco 2 3/4" 450 Deg. F Rare Earth Magnets	1.83	2.75	33.00
GR	1.31		GR-Tek-Co 2 3/4 (234GR4-267) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00
			Titan-1.375_Cap Titan 1 3/8" Cap	0.27	1.38	1.00
Dataset: larsen 1 cbl.db: field/well/run1/pass3 Total length: 21.39 ft Total weight: 259.00 lb O.D.: 2.75 in						

400	TT (usec)	200	LTEN	0	AMP (mV)	100	0	AMPAVG	100	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR	150	0 (lb 1000)	0	3FT X 5 (mV)	20	0	AMPMAX	100						
9	CCL	-1					0	AMPMIN	100						

TEMP
(degF)

