

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1377

Date	1-16-15	Sec.	15	Twp.	10	Range	30	County	sheridan	State	KS	On Location		Finish	4:45 PM
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Location Grinnell, 4N, 1W, 34 N

Lease Fellhoelter ETAL Well No. 1-15 Owner

Contractor Discovery #4 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job top to bottom cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8 T.D. 4550 Charge To Sam Gary Jr + Associates

Csg. 5 1/2 Depth 4547.60 Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint 43.60 Cement Amount Ordered 480sx 80/20 QMDC 1/2 #Flo, 3%CC

Meas Line Displace 107,266l 3%gel, 180sx com pro-c 1/2 #Flo 2066l kcl

EQUIPMENT Common 180 Q pro-c + 384 10% salt

Pumptrk 17 No. Cementer Lonnie W. Travis Poz. Mix 96 480 80/20 QMDC 5% gilsonite

Bulktrk 19 No. Driver Lonnie M. Gel. 5

Bulktrk 15 No. Driver Tylor Calcium 5

JOB SERVICES & REMARKS Halls KCL 2 gal

Remarks: Salt 16

Rat Hole 30sx Flowseal 285#

Mouse Hole 15sx Kol-Seal 900#

Centralizers Mud CLR 48 500gal

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Pipe on bottom broke circulation. Dropped ball Handling 685

and circulated. Pumped 500 gal Mud CLR-48 Mileage

with 1066l fw behind it. Plugged Rat hole

with 30sx and Mouse hole with 15sx. Hooked

to 5 1/2. Mixed 435sx 80/20 QMDC 1/2 #Flo, 3%CC

3%gel. and 180sx com Pro-c 1/2 #Flo. Shut

down washed pump and lines. Released plug and

displaced with 2066l kcl and 8766l fw.

Plug landed and held.

lift pressure 1400 psi

Plug landed at 1800 psi

Cement did circulate

Signature James H. Hamm Pumptrk Charge prod string

Mileage 27

Tax

Discount

Total Charge