

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Elite Cementing & Acidizing of KS, LLC  
 810 E 7th, PO Box 92  
 Eureka, KS 67045



Date	Invoice #
11/5/2018	4218

Bill To	
Val Energy Inc. 125 N. Market St., Suite 1110 Wichita, KS 67202	
Customer ID#	1217

Job Date	11/4/2018
Lease Information	
Birdzell V OWWO #1-23	
County	Cowley
Foreman	DG

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C102	Cement Pump-Longstring	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	60	4.20	252.00
C201	Thick Set Cement	150	20.50	3,075.00T
C208	Pheno Seal	300	1.30	390.00T
C108A	Ton Mileage (min. charge)	1	420.00	420.00
C222	KCL	5	30.00	150.00T
C421	5 1/2" Latch Down Plug	1	242.00	242.00T
C691	5 1/2" Guide Shoe	1	175.00	175.00T
C703	5 1/2" AFU Flapper Valve Insert	1	152.00	152.00T
C504	5 1/2" Centralizer	5	50.00	250.00T
C604	5 1/2" Cement Basket	1	236.00	236.00T
D101	Discount on Services		-88.60	-88.60
D102	Discount on Materials		-233.50	-233.50T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$6,119.90
<b>Sales Tax (6.5%)</b>	\$288.37
<b>Total</b>	\$6,408.27
Payments/Credits	\$0.00
<b>Balance Due</b>	\$6,408.27



810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **4218**  
 Foreman David Gardner  
 Camp Eureka

API # 15-035-22441

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-4-18	1217	Birdzell V OWWO #1-23	23	33 S.	4 E.	Cowley	KS
Customer <u>Val Energy, Inc.</u>		Safety Meeting DG AM 2A	Unit #	Driver	Unit #	Driver	
Mailing Address <u>125 N. Market St. Ste. 110</u>			104	Alan M.			
City <u>Wichita</u>			110	Zevi A.			
State <u>KS</u>							
Zip Code <u>67202</u>							

Job Type Longstring Hole Depth 3480' KB Slurry Vol. 37 Bbl Tubing \_\_\_\_\_  
 Casing Depth 3476' KB Hole Size 7 7/8" Slurry Wt. 13.8" Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2" 15.50" Cement Left in Casing 38' S.S. Water Gal/SK 9.0 Other \_\_\_\_\_  
 Displacement 83.5 Bbl Displacement PSI 750 Bump Plug to 1250 BPM \_\_\_\_\_

Remarks: Safety Meeting. 5 1/2" 15.50" used casing set @ 3476' = KB. Rig up to 5 1/2 casing. Break circulation w/ 15 Pbl fresh water. Mixed 125 sks Thick Set Cement w/ 2" Phenoseal/sk @ 13.8"/gal, yield 1.65 = 37 Pbl Slurry. Shut down. Wash out pump & lines. Release 5 1/2 Latch down plug. Displace plug to seat w/ 83.5 Pbl fresh water. (First 40 Pbl w/ KCl). Final pumping pressure of 750 PSI. Bump plug to 1250 PSI. Wait 2 mins. Release pressure. Float & plug held. Good circulation @ all times while cementing. Job complete. Rig down.

Plug Rat hole & mouse hole

Centralizers on #1, 4, 6, 8, 10  
Basket on #2

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1100.00	1100.00
C107	600	Mileage	420	252.00
C201	150 sks	Thick Set Cement	20.50	3075.00
C208	300"	Phenoseal 2"/sk	1.30	390.00
C108	8.25 Tons	Ton Mileage	m/c	420.00
C222	5 gals.	KCl (In first 40 Pbl of Displacement water)	30.00	150.00
C421	1	5 1/2 Latch Down Plug	242.00	242.00
C691	1	5 1/2 Guide Shoe	175.00	175.00
C703	1	5 1/2 AFU Inset Flapper Valve w/ Latch Down	152.00	152.00
C504	5	5 1/2 x 7 7/8 Centralizers	50.00	250.00
C604	1	5 1/2 Cement Basket	236.00	236.00
<u>Thank You</u>			Sub Total	6442.00
			Less 5%	337.28
			6.5% Sales Tax	303.55

Authorization \_\_\_\_\_ Title \_\_\_\_\_ Total **6408.27**

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Elite Cementing & Acidizing of KS, LLC  
 810 E 7th, PO Box 92  
 Eureka, KS 67045



Date	Invoice #
12/13/2018	4296

Bill To	
Val Energy Inc. 125 N. Market St., Suite 1110 Wichita, KS 67202	
Customer ID#	1217

Job Date	12/12/2018
Lease Information	
Birdzell V OWWO #1-23	
County	Cowley
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C104	Cement Pump-Squeeze	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	60	4.20	252.00
C200	Class A Cement-94# sack	50	15.75	787.50T
C218	Felt Pellets	10	84.00	840.00T
C108A	Ton Mileage (min. charge)	1	365.00	365.00
C117	Squeeze Manifold Rent	1	105.00	105.00T
D101	Discount on Services		-85.85	-85.85
D102	Discount on Materials		-81.38	-81.38T
D105	Discount on Eq Rent		-5.25	-5.25T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$3,277.02
<b>Sales Tax (6.5%)</b>	\$106.98
<b>Total</b>	\$3,384.00
Payments/Credits	\$0.00
<b>Balance Due</b>	\$3,384.00



810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**

Ticket No. **4296**  
 Foreman Kevin McCoy  
 Camp EUREKA

API \* 15-035-22441-00-01

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-12-18	1217	Birdzell V owwo #1-23	23	335	4E	Cowley	Ks
Customer			Unit #	Driver	Unit #	Driver	
VAL Energy, INC.			104	Alan M.			
Mailing Address			113	Steve M.			
125 N. MARKET ST. STE 110							
City	State	Zip Code					
Wichita	Ks	67202					

Job Type Squeeze Hole Depth \_\_\_\_\_ Slurry Vol. 11 BBL Tubing 2 7/8 Vol = 18.2 BBL  
 Casing Depth 3476' Hole Size \_\_\_\_\_ Slurry Wt. 15.2 # Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2 15.50\* Cement Left in Casing 95' Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 18.2 BBL Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting: CIBP Set @ 3240'. MISSISSIPPIAN PERFS 3184-3230'. 2 7/8 Tubing & PACKER Set @ 3139'. Rig up w/ Squeeze MANIFOLD. Load ANNULUS w/ 6.2 BBL WATER, Pressure to 400 PSI. Shut in @ 400 PSI. Load Tubing w/ 2 BBL WATER. Establish INJECTION RATE into PERFS w/ 10 BBL FRESH WATER @ 5.3 BPM @ 500 PSI. 15DP 0 PSI. Resume Pumping, MIXED 50 SKS CLASS 'A' Cement w/ 1/4" FELT Pellets @ 15.2 #/GAL, yield 1.23 = 11 BBL SLURRY. START Displacement @ 2.8 BPM @ 0 PSI. 8 BBL IN @ 0 PSI @ 1.9 BPM, Cement Going into PERFS. 14.5 BBL IN @ 0 PSI. Shut down on slow VACUM. Stage For 5 mins. Resume Pumping @ 1.2 BPM. 15 BBL IN @ 500 PSI, 16 BBL IN @ 700 PSI, 17 BBL IN @ 800 PSI, 17.5 BBL IN @ 800 PSI. 15DP 0 PSI. Stage For 5 mins. Pump 1/2 BBL @ 1450 PSI. 15DP 0 PSI, NO VACUM. Stage on Cement For 1 HR in 5 MIN INTERVALS. FINAL Stage Pressure in 1 HR = 2000 PSI. Holding @ 2000 PSI. Release Pressure, NO FLOW BACK. BACK WASH w/ 25 BBL WATER. Pull 10 Jts. Reset PACKER. Pressure to 500 PSI. Shut in @ 500 PSI. Job Complete.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 104	1	Pump Charge	1100.00	1100.00
C 107	60	Mileage	4.20	252.00
C 200	50 SKS	CLASS 'A' Cement	15.75	787.50
C 218	10 #	Felt pellets	84.00 #	840.00
C 108 A	2.35 TONS	TON Mileage	M/C	365.00
C 117	1	Squeeze MANIFOLD Rental	105.00	105.00
			Sub Total	3449.50
			Less 5%	178.11
			Sales Tax	112.61
			6.5%	
Authorization <u>[Signature]</u> Title _____			Total	3384.00

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

# GEOLOGICAL REPORT

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: BIRDZELL V 1-23 OWWO  
Location: SECTION 23-T33S-4E  
License Number: 15-035-22441-0001  
Spud Date: 11/1/2018  
Surface Coordinates: 660'FSL 3630'FEL

Region: COWLEY CO, KS  
Drilling Completed: 11/4/2018

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1112                      K.B. Elevation (ft): 1121  
Logged Interval (ft):                      To:                      Total Depth (ft):  
Formation: @ TD : Kinderhook  
Type of Drilling Fluid: CHEM

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: VAL ENERGY, INC  
Address: 125 N. Market Ste. 1110  
Wichita, Kansas 67202

### GEOLOGIST

Name: JOE M.BAKER  
Company: Mako Operating Co., LLC  
Address: P.O Box 931  
Andover Kansas 67002  
316-253-9696

### E-Log Tops

IATAN	1905(-784)
STALNAKER	1956(-835)
KANSAS CITY	2532(-1411)
MARMATON /ALTAMONT	2726(-1605)
CHEROKEE SH	2843(-1722)
MISS CHERT	3071(-1950)
MISS LIME	3080(-1959)
KINDERHOOK	3428(-2307)
ARBUCKLE	Not Penetrated
RTD	3480(-2359)
LTD	3472(-2351)

### Comments

Old hole drilled by Camio Oil Co in February 1980. Frank Morgan was wellsite geologist. Samples were examined from 300-700' & 1800'- RTD at 3172. Layton sand was tested and recovered mud and water. A show was called in the Ft Scott but was not tested.

Val Energy re-entered the hole and deepened to the Kinderhook Shale. 5 1/2" casing was set to complete the Miss Lime section.

### ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Slst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till



### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

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- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

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- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

### OTHER SYMBOLS

#### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

#### EVENT

- Rft
- Sidewall

#### INTERVAL

- Core
- Dst

#### OIL SHOW

- Even

New Track	Lithology	Depth	Curve Track 1 ROP (min/ft)	Geological Descriptions	Oil Shows	MIS
		2950	ROP (min/ft) 0 15			
		3000	ROP (min/ft) 0 15			

3050

Old hole drilled to 3172' by Camio Oil Co in 1980'. Wellsite Geologist was Frank Morgan

MISS CHT  
3071(-1950)

Cht wh dns fresh vit no vi por ns

MISS LM 3080(-1959)

3100

Ls tan brn fnxln /dns poor por ns

Ls aa tan brn dns fnxln

3150

Lost Ciculation at old RTD ~400-450 bbls

NEW HOLE @ 3175'?

Ls dk brn tan vfnxln dns microxln samples very shaly

3200

ROP (min/ft) 0 15

Ls aa dk brn dns microxln no por ns very shaly

Shale dk gry

Ls aa dk brn dns fnxln microxln in pt abund cht wh dns fresh

3250

Ls aa dk brn dns microxln

Ls aa dk brn/gry sl dolo, brittle glauconitic gas bubbs in cups  
poss ft odor

Ls tan dk brn sl dolo, brittle, glauconitic gas bubbs in cups

3300

Ls aa tan brn fnxln dolo brittle, glauconitic

COWLEY

Shales gry dk gry sl calc some gas bubbles when cups squeezed poss ft odor



3350

Shales aa gy dk gry

Ls wh f-medxl n sl fossil chalky in pt dns no por ns

CFS @ 3375' 20/40"

Ls aa wh fnxln cherty /chalky in pt sl fossil no vis shows

3400

ROP (min/ft)

15

CFS 20/40 @ 3400

shales gry grn wxy

Ls wh fnxln dns no por ns

KINDERHOOK  
3436(-2315)

Shale gry dk gry fissil

3450

CFS 20/40/60

Shale blk carb petroliferous odor

RTD  
3480(-2359)

CFS 60", Short Trip, Condition hole 11/2 hr, Come out for logs

LTD  
3472(-2351)

3500