



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1193333  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1193333

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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MDCI Walter #5-1 765' FNL 867' FEL Sec. 1-T1S-R36W 3142' KB							MDCI Walter #2-1 330' FNL 1360' FEL Sec. 1-T1S-R36W 3117' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3068	+74	+4	3069	+73	+3	3047	+70
B/Anhydrite	3105	+37	+2	3105	+37	+2	3082	+35
Neva	3561	-419	-1	3555	-413	+5	3535	-418
Red Eagle	3617	-475	+5	3618	-476	+4	3597	-480
Foraker				3665	-523	+4	3644	-527
Topeka				3872	-730	+5	3852	-735
Oread				3987	-845	Flat	3962	-845
Lansing				4087	-945	+4	4066	-949
Stark				4302	-1160	Flat	4277	-1160
BKC				4354	-1212	+2	4331	-1214
RTD	4474	-1332					4432	-1315
LTD				4478	-1336		4430	-1313



**WESLEY D. HANSEN Consulting Petroleum Geologist**

212 N. Market, Suite 257, Wichita, KS 67202  
Office: 316-267-7313 Cellular ; 316-772-6188

**KGS  
AAPG  
Kansas License #418**



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

**Well Name:** Murfin Drilling Co., Inc. #5-1 Walter  
**Location:** 765' FNL, 867' FEL of Section 1-1S-36W  
**License Number:** API: 15-153-20961  
**Spud Date:** 11-15-2013  
**Surface Coordinates:** 765' FNL, 867' FEL of Section 1-1S-36W  
**Region:** Rawlins County, KS  
**Drilling Completed:** 11-19-2013

**Bottom Hole Vertical hole**  
**Coordinates:**  
**Ground Elevation (ft):** 3131' **K.B. Elevation (ft):** 3142'  
**Logged Interval (ft):** 3450' **To:** RTD **Total Depth (ft):** 4474'  
**Formation:** Marmaton at RTD  
**Type of Drilling Fluid:** Chemical - Displaced at 3248'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

#### **OPERATOR**

**Company:** Murfin Drilling Co., Inc.  
**Address:** 250 N. Water  
Suite 300  
Wichita, KS 67202

#### **GEOLOGIST**

**Name:** Wesley D. Hansen  
**Company:** Wesley D. Hansen - Consulting Petroleum Geologist  
**Address:** 212 N. Market, Suite 257  
Wichita, KS 67202  
**Office:** 316-263-7313 **Cellular:** 316-772-6188

## COMMENTS

Contractor: Murfin Drilling Co., Inc. Rig #2  
 Pusher: Arturo Cabezas

Surface Casing: 8 5/8" set at 265' w/245 sx  
 Production Casing: 5 1/2" set at 4465' w/500 sx

Mud by: Morgan Mud - Dave Lines was the engineer

DST's by: No DST's

Logs by: Pioneer Wireline (DIL, CN-CD, MEL, BHCS)






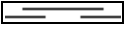







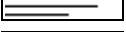






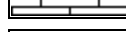
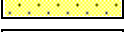





Deviation Surveys: 1/2 deg. @ 265'; 1 deg. @ 1008'; 3/4 deg. @ 1797'; 1 deg. @ 2743'; 3/4 deg. @ 3248'; 1 1/4 deg. @ 3751'; 1 1/4 deg. @ 4474'

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	HTC	rerun	265'	265'	
2	7 7/8"	HTC	DP506F	4474'	4209'	48 1/4

## FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS		LOG TOPS		COMPARISON WELL MDC #2-1 Walter 330'FNL, 1360' FEL Section 1-1S-36W 3117' KB
	Depth	Datum	Depth	Datum	
Anhydrite	3068'	+74	3068'	+74	+4
B/Anhydrite	3105'	+37	3104'	+38	+3
Neva	3552'	-410	3554'	-412	+6
Red Eagle	3617'	-475	3615'	-473	+7
Foraker	3663'	-521	3664'	-522	+5
Topeka	3866'	-724	3871'	-729	+6
Oread	3985'	-843	3986'	-844	+1
Lansing	4082'	-940	4087'	-945	+4
Stark Shale	4298'	-1156	4302'	-1160	flat
BKC	not picked		4354'	-1212	+2
RTD	4474'	-1332			
LTD			4478'	-1336	

## ROCK TYPES

 Anhy	 Salt	 Dol	 Shlyslts
 Cht	 Shale	 Dtd	 Sltysh
 Coal	 Shcol	 Gry sh	 Sdy dolo
 Congl	 Shgy	 Sandylms	 Silty dolo
 Gyp	 Slstst	 redshale	 Shy dolo
 Ls colorless	 Ss	 Shale	 Shaly ls
 Lmst	 Carb sh	 Slstsn	

### ACCESSORIES

#### FOSSIL

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

- Plant
- Strom
- Fuss
- Oomold

#### MINERAL

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

- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

### OTHER SYMBOLS

#### INTERVALS

- Core
- Dst
- Dst

#### EVENTS

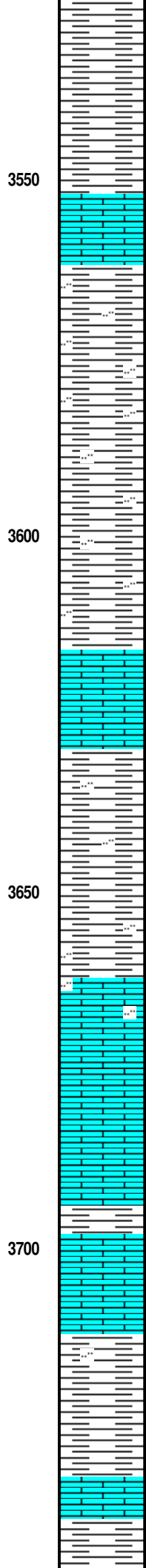
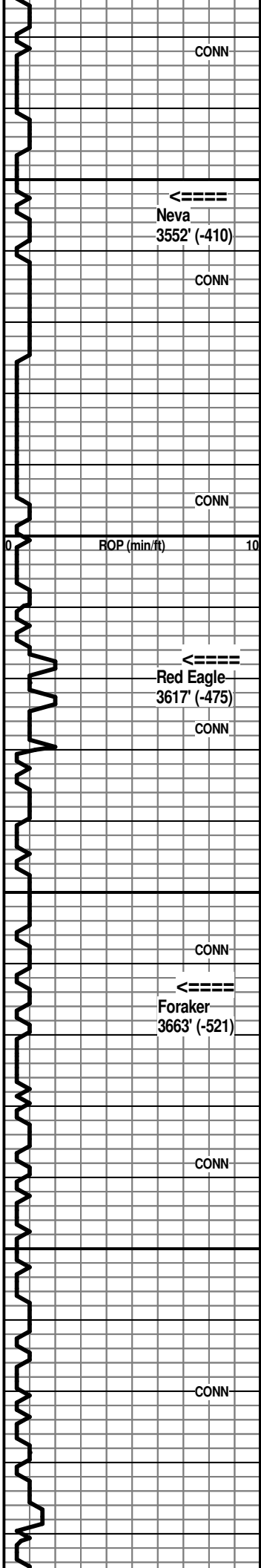
- Rft
- Dst top/base

#### OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show

Curve Track 1 ROP (min/ft)	Depth	Lithology	Oil Shows	Geological Descriptions	Remarks
	<p>3450</p> <p>3500</p>				<p>Because of the very rapid drilling rate and difficult correlation to offset wells, the lithology column was adjusted to the E-Logs after logging was completed.</p>



Sh: red gummy

**Neva 3552' (-410)**

Ls: scatt. offwhite, lt gray fn granular to subchalky

Sh: red, silty

Sh: red silty, some lt gray, trace dark red-brn

**Red Eagle 3617' (-475)**

Ls: offwhite, lt gray vfxln dense; some med gray cryptoxln

60' spl - flood Ls: offwhite, lt gray vfxln dense; lesser offwhite subchalky

80' spl - Sh: red gummy and silty; very minor Ls %

**Foraker 3663' (-521)**

3700' spl - flood Ls: lt to med gray vfxln dense, shaly and silty IP; Sh: med to dark gray, silty IP, calcar.

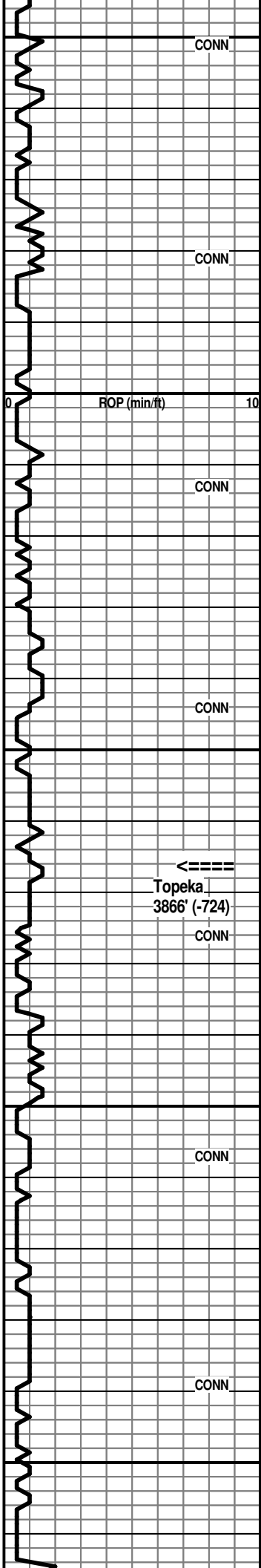
20' spl - Ls: lt gray, offwhite mic-fnxln, poor-NVP; lesser offwhite suchalky to chalky; fairly minor shale %

40' spl - Ls: mix AA with some med brn and gray cryptoxln; Sh: lt red mushy to silty IP

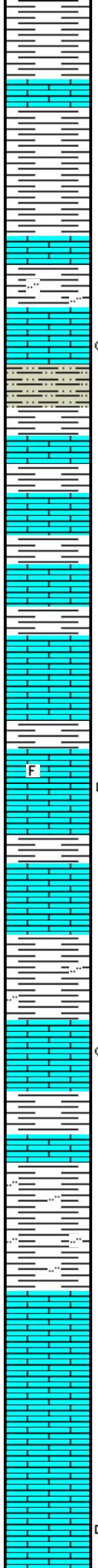
60' spl - Ls: lt gray, some tan, offwhite mic-vfxln dense; scatt. chalky; Sh: lt red and some lt gray

80' spl - Ls: predom. lt gray, offwhite vfxln dense; Sh: lt red with sl influx med to dark gray





3750  
 3800  
 3850  
 3900  
 3950



3800' spl - Sh: flood red, gummy

20' spl - Sh: med to dark gray and silty red, much decr. %; some lt gray micac. Siltst; Ls: lt gray vfxln and offwhite mic-vfxln dense; trace lt gray with spotty stain, nfo, no odor, weak milky cut

40' spl - very predom. red gummy shale; some offwhite, lt gray dense Ls

60' spl - Sh: red gummy AA; Ls: sl incr. offwhite, lt gray vfxln dense

80' spl - still very shaly, sl influx med gray; Ls: tan, lt gray cryptoxln, sl foss. poor-NVP; scatt. chips lt brn fn granular with sat. black tarry stain, no odor, nfo

3900' spl - Sh: lt to med red, gummy; Ls: tan, lt gray, offwhite vfxln to occ cryptoxln, NVP; scatt. chips with shows AA

20' spl - Sh: lt to med red, gummy to silty; some lt to med gray and gray-green; Ls: scatt. lt brn granular with sat. stain; lt gray vf-cryptoxln and offwhite mic-vfxln, NVP

40' spl - Ls: scatt. sat. stain AA; sl influx tan, lt gray cryptoxln, NVP; Sh: mix AA

60' spl - Sh: lt to med red, red-brn gummy to silty; Ls: influx lt gray, tan cryptoxln; lesser offwhite mic-vfxln dense

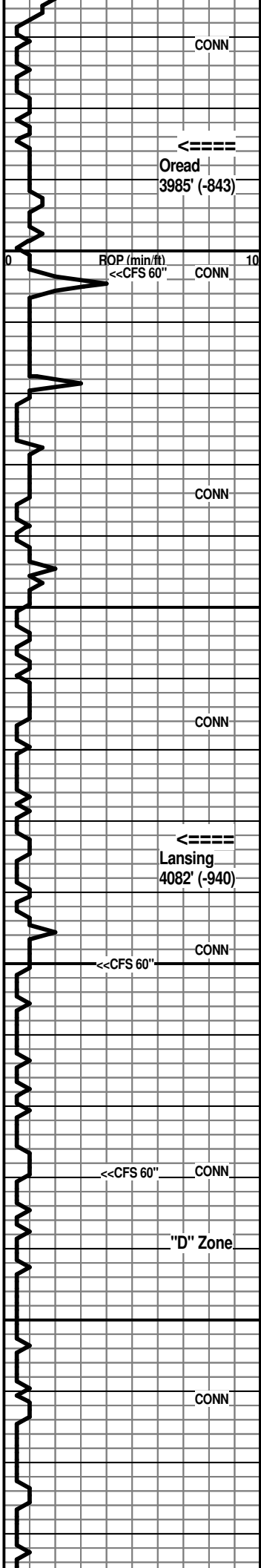
80' spl - Sh: incr. red gummy; Ls: various lt gray, tan, lt brn predom. cryptoxln

4000' spl - Sh: decr. %, but more red-maroon; Ls: incr. offwhite, lt gray mic-vfxln, poor-NVP with patchy dead gilsonite stain, no odor, nfo

vis 65 wt 8.8 lcm 4#

Topeka 3866' (-724)

with patchy acid gas-sulfide stain, no odor, no



Oread 3985' (-843)

ROP (min/ft) <<CFS 60" CONN

CONN

Lansing 4082' (-940)

<<CFS 60" CONN

"D" Zone

<<CFS 60" CONN

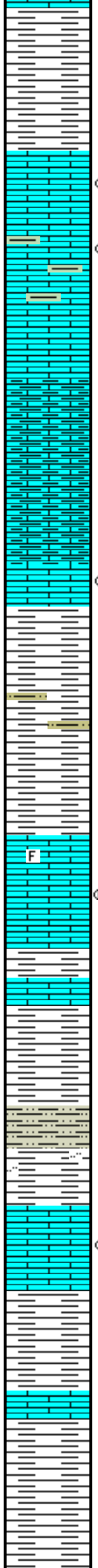
CONN

4000

4050

4100

4150



CFS 4003' 30" spl - Ls: lt gray vf-cryptoxln, NVP; offwhite mic-vfxln dense, subchalky IP, N.S.; some lt gray vf-cryptoxln, gran. IP with inter-particle and vug. por. with black spotty stain, trace brn fo, no odor; Sh: lt red and red-maroon; 60" spl - decr. Ls%; incr. Sh: lt red soft, silty with red-maroon

20' spl - very shaly AA with influx lt to med gray, gray-green; Ls: tan, lt gray vf-cryptoxln, N.S.; scatt. offwhite, tan sl granular with spotty dark brn stain, sl sfo, no odor

40' spl - flood Ls: lt to med gray vf-cryptoxln; lesser offwhite vfxln dense, N.S.

60' spl - Ls: flood med to dark gray vfxln, shaly; scatt. lt gray cryptoxln with spotty vug. por. with dark brn to black stain, no odor, nfo; Sh: med to dark gray calcar. shale

80' spl - very predom. gray shaly Ls and gray calcar. shale AA; scatt. lt gray granular with spotty brn stain, sl sfo, sg, ft to no odor

4100' spl - mix AA with influx lt to med gray cryptoxln Ls; some gray micac. Siltst

CFS 4100' 30" spl - Ls: tan, lt brn, lt gray cryptoxln, NVP; lesser offwhite mic-vfxln dense, subchalky, N.S.; scatt. tan cryptoxln, foss. IP. with some good vug. and intra-particle por. with brn stain, sl sfo, no odor; 60" spl - Ls: mix AA, predom. N.S.; trace lt brn granular with sat, stain; Sh: incr. med to dark gray, red-brn

30' spl - Ls and Sh mix AA; incr. med brn cryptoxln with vug. por. with lt brn stain

CFS 4130' 30" spl - Ls: mix tan, lt to med brn, lt gray predom. cryptoxln, scatt. chips with vug. por. and stain; offwhite mic-vfxln subchalky; occ offwhite vfxln with dark spotty stain; Sh: lt to med gray, red-brn, dark red, gray-green, some silty; 60" spl - mix AA incr. shales AA; some lt gray, lt brn Siltst; occ gray med grnd sl pyritic Sst

60' spl - Ls: mix AA with scatt. shows AA; Sh: lt to med red, gummy and silty IP; lt to med gray, gray-green

80' spl - Shales AA; Ls: good influx tan cryptoxln with vug. and sucrosic edge porosity with lt stain, sl sfo, ft to no odor

4200' spl - Ls: common shows AA; other tan, lt brn cryptoxln, NVP and offwhite, lt gray mic-vfxln dense; abund. Sh: med to dark gray, med to dark red-brn, brn

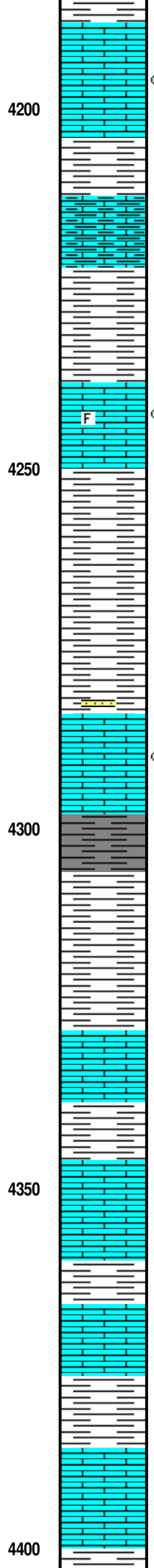
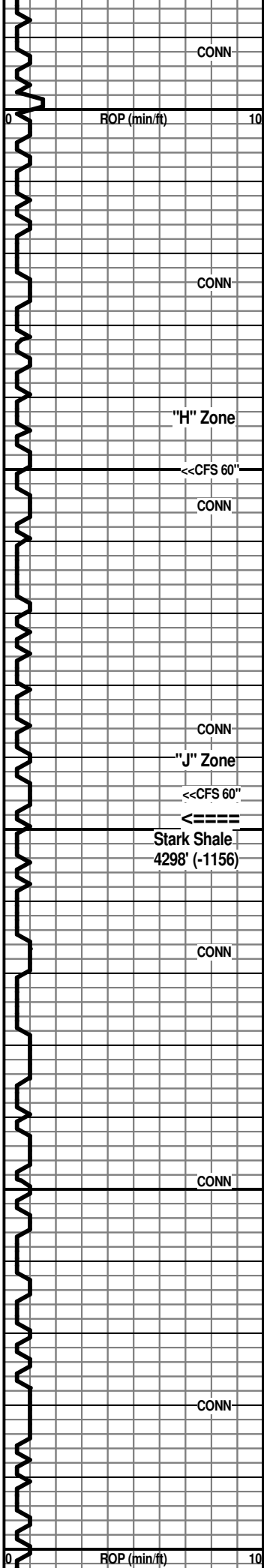
20' spl - very shaly AA; still carrying tan cryptoxln Ls with some vug. por. and shows

Oread 3985' (-843)

7:00 AM at 4003' on 11-18-2013 wiper trip at 4003'

Lansing 4082' (-940)

Morgan Mud Check at 4186  
 12:45 PM on 11-18-2013  
 wt vis wl pH chl  
 9.1 60 7.2 10.0 700  
 PV YP GelS lcm solids  
 19 19 14/33 4# 5.7%



AA

40' spl - much decr. shale %; Ls: influx lt gray cryptoxln, NVP and offwhite, lt gray mic-vfxln dense, some poor pp por. with patchy lt brn stain and lt brn with small to med vug. por. with sat. stain

50' spl - Ls: predom. lt gray and offwhite vf-cryptoxln and lesser mic-vfxln dense, N.S.; Sh: common red-brn, lesser med to dark gray

CFS 4250' 30" spl - Sh: abund. med to dark red-brn and med to dark gray; Ls: predom. tan, lt gray cryptoxln, NVP, N.S.; scatt. offwhite, tan vf-cryptoxln with patchy stain; trace offwhite cryptoxln with vug. por. with lt stain, vsf sfo on break, no odor; trace fn granular with sat. stain

60" spl - very shaly AA; Ls: predom. tan, lt gray, offwhite vfxln to occ cryptoxln, poor-NVP, N.S.; scatt. offwhite with patchy stain; trace lt brn gran. and foss. with vug. por., sat. lt brn stain, sfo, ft to no odor

very shaly mix AA

CFS 4295' 30" spl - influx Ls: some offwhite, tan cryptoxln with spotty to good vug. por. with lt stain, vsf sfo; other offwhite mic-vfxln with pp por. with patchy stain, nfo, no odor; Sh: decr. %, but mix red-brn, med to dark gray, some brick red; 60" spl - Ls/Sh mix AA 60% shales; scatt. tan cryptoxln with shows AA; occ very coarse loose qtz grains, trace lt gray med gray Sst clusters

20' spl - Sh/Ls mix AA with scatt. shows AA; new offwhite, lt gray mic-vfxln dense, subchalky IP, occ patchy lt brn stain

40' spl - Sh: influx med to dark gray; Ls: offwhite mic-vfxln and tan, lt gray vf-cryptoxln, NVP, N.S.

60' spl - Sh: med to dark gray, dark red-brn; Ls: tan, lt to med gray predom. cryptoxln, NVP and offwhite mic-vfxln dense, subchalky IP, N.S.

80' spl - Ls: sl influx tan granular with micxln matrix and dark brn granular, NVP; other cryptoxln and dense AA; Sh: dark red-brn, med to dark gray, some gray-green

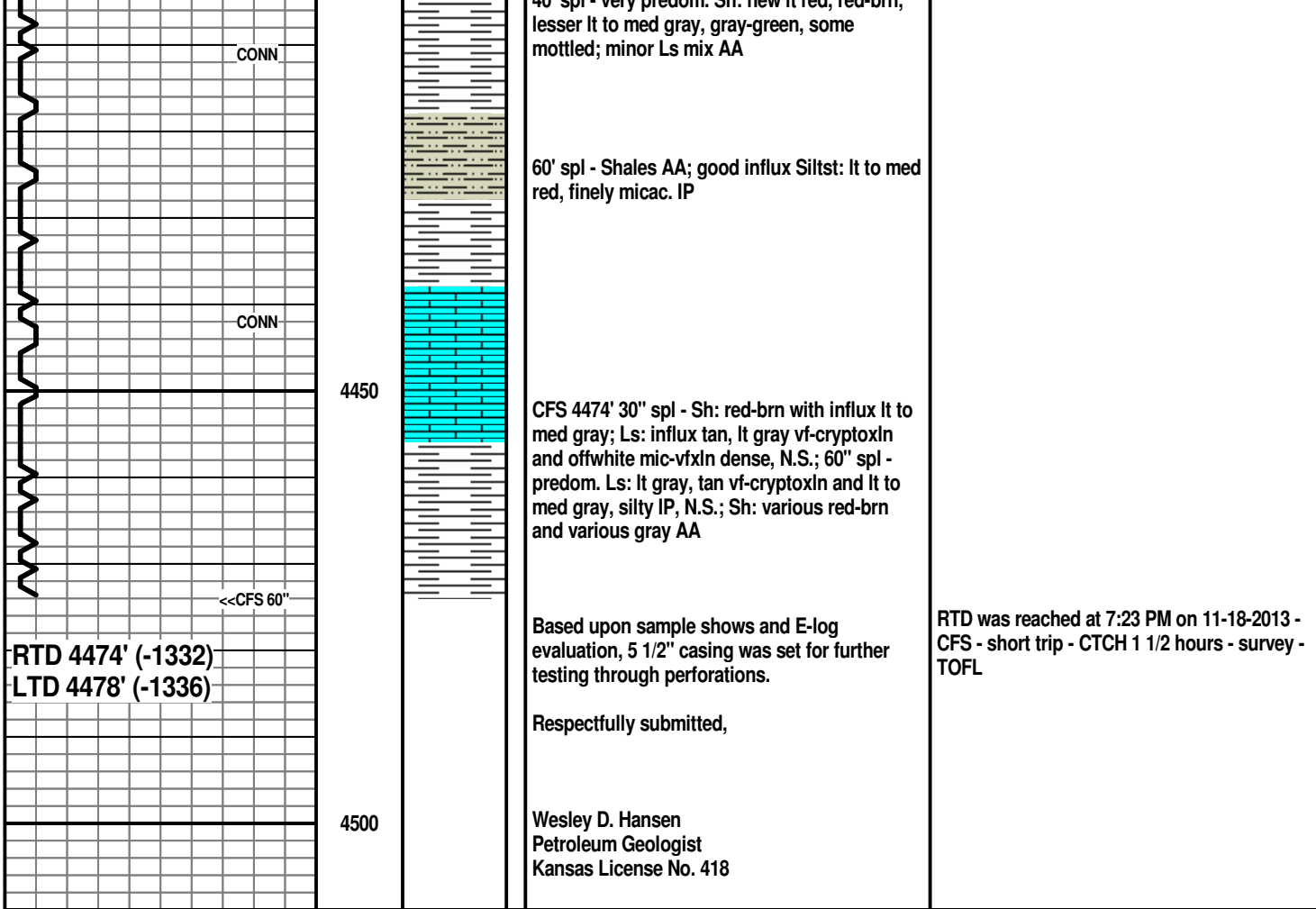
4400' spl - becoming more shale dominated with mix AA; Ls: mix AA

20' spl - Ls: predom. offwhite, tan fn granular, sl mottled; lesser lt gray, tan cryptoxln and offwhite mic-vfxln dense; Sh: med to dark red-brn, lt to med gray, some mottled gray/red

40' spl - very predom. Sh: now lt red, red-brn

jet #1 add premix

Stark Shale 4298' (-1156)





PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

*acct.  
Prod - LH*

Invoice Number: 139822  
Invoice Date: Nov 15, 2013  
Page: 1

<b>Bill To:</b>
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	61416	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 15, 2013	12/15/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Walter #5-1		
245.00	CEMENT MATERIALS	Class A Common	17.90	4,385.50
9.00	CEMENT MATERIALS	Chloride	64.00	576.00
257.25	CEMENT SERVICE	Cubic Feet	2.48	637.98
948.80	CEMENT SERVICE	Ton Mileage	2.60	2,466.88
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Adam Flipse		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

Subtotal	10,821.61
Sales Tax	391.96
Total Invoice Amount	11,213.57
Payment/Credit Applied	
<b>TOTAL</b>	<b>11,213.57</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 3,787.56

ONLY IF PAID ON OR BEFORE

Dec 10, 2013

*11*

*- 3787.56*

# ALLIED OIL & GAS SERVICES, LLC 061416

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Oakley

DATE: <u>11-15-13</u>	SEC. <u>1</u>	TWP. <u>1</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00am</u>	JOB FINISH <u>10:00pm</u>
LEASE <u>Walter</u>	WELL# <u>5-1</u>		LOCATION <u>Beardsley 9N 3W 3N</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>1/4W N + 8 into</u>				

CONTRACTOR <u>Murfin #2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>265</u>	CEMENT
CASING SIZE <u>8 5/8</u> DEPTH <u>262.12</u>	AMOUNT ORDERED <u>245 sbs com</u>
TUBING SIZE DEPTH <u>3 1/2</u>	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>245 sbs @ 12.92 485.50</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GEL @
PERFS.	CHLORIDE <u>9 sbs @ 6.40 57.60</u>
DISPLACEMENT <u>15.74 BBL</u>	ASC @
EQUIPMENT	

PUMP TRUCK CEMENTER <u>Andrew Fogstad</u>
# <u>322-281</u> HELPER <u>Kevin Ryan</u>
BULK TRUCK
# <u>818</u> DRIVER <u>Adam Flipse</u>
BULK TRUCK DRIVER <u>Brandon Wilkinson</u>
# DRIVER

HANDLING <u>25.25 cu ft @ 2.48</u>	<u>627.98</u>
MILEAGE <u>210 to site 11.86 mi</u>	<u>246.6188</u>
TOTAL	<u>806.136</u>

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Murfin

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB <u>265'</u>	
PUMP TRUCK CHARGE	<u>1572.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>80 miles @ 2.20</u>	<u>176.00</u>
MANIFOLD <u>head @</u>	<u>275.00</u>
<u>Light vehicle @ 440</u>	<u>352.00</u>
TOTAL	<u>2257.25</u>

**PLUG & FLOAT EQUIPMENT**

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
TOTAL _____

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Amato Cabelcos

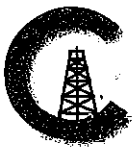
SIGNATURE Amato Cabelcos

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 10,821.61

DISCOUNT 3,787.56 IF PAID IN 30 DAYS

7,034.04 Net.



**CONSOLIDATED**  
Oil Well Services, LLC

*Acob -*  
*cc: WF*  
*cc: Liz*  
*cc: L*

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 264134

Invoice Date: 11/21/2013 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING  
P.O. BOX 288  
RUSSELL KS 67665  
( ) -

WALTERS 5-1  
44511  
1-1S-36W  
11-19-2013  
KS

USED FOR IC 103  
APPROVED [Signature]

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	300.00	18.5500	5565.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1101	CAL SEAL	564.00	.5200	293.28
1102	CALCIUM CHLORIDE (50#)	564.00	.9400	530.16
1111A	SODIUM METASILICATE	564.00	2.5200	1421.28
1118B	PREMIUM GEL / BENTONITE	564.00	.2700	152.28
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4136	TURBOLIZER 5 1/2"	14.00	75.7500	1060.50
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4310	5 1/2" ROTATING HEAD	1.00	150.0000	150.00
4315	ROTATING SCRATCHERS	10.00	94.5000	945.00
4454	5 1/2" LATCH DOWN PLUG	1.00	567.0000	567.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1775.60
9995-130	CEMENT EQUIPMENT DISCOUNT	-678.47

Description	Hours	Unit Price	Total
460 TON MILEAGE DELIVERY	1.00	1608.00	1608.00
T-118 SINGLE PUMP	1.00	3175.00	3175.00
T-118 EQUIPMENT MILEAGE (ONE WAY)	75.00	5.25	393.75
T-127 TON MILEAGE DELIVERY	1.00	1608.00	1608.00

Amount Due 25943.42 if paid after 12/21/2013

Parts:	17755.95	Freight:	.00	Tax:	1262.45	AR	23349.08
Labor:	.00	Misc:	.00	Total:	23349.08		
Sublt:	-2454.07	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK 918/338-0808    EL DORADO, KS 316/322-7022    EUREKA, KS 620/583-7664    PONCA CITY, OK 580/762-2303    OAKLEY, KS 785/672-8822    OTTAWA, KS 785/242-4044    THAYER, KS 620/839-5269    GILLETTE, WY 307/686-4914    CUSHING, OK 918/225-2650



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

264134

TICKET NUMBER 44511

LOCATION Calley #5

FOREMAN Miles Shaw

Walt Dinkel

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-19-13	5406	Walters #5-1	1	1S	36W	Reddick
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mailing Address			452 JIF	Tim W		
City			528 TD7	John H		
State			460	Jeremy D		
ZIP CODE						

JOB TYPE Log Straps HOLE SIZE 7 7/8 HOLE DEPTH 4474 CASING SIZE & WEIGHT 5 1/2" 15.5#  
 CASING DEPTH 4465 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 107/138 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 21/12  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on multi drilling rig #2. Flotation cement  
Turbulizers on rats # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 31, 51. Baskets on buttons # 12, 32, 52.  
Run casing to bottom. Circulate thru pump. Submerge mud flush. Submerge  
Mix 200 sacks cement with 1/2" Phasal topped in with 200 sacks cement with 5" Cal Seal  
Shut down. Check pump & lines. Release plug & displace 107 1/2 bbls water with 1300  
psi lift plug landed & held @ 1800 psi. Cement did circulate 20 bbls to pit

Mix 30 sacks RH + 20 sacks MH

Thanks Miles crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	75	MILEAGE	5.25	393.75
5407A	246 tons	Tonmitose delivery	1.75	3216.00
1104S	300 Sks	Class A cement	18.55	5565.00
1126	200 Sks	CWC	23.70	4740.00
1101	564 #	Cal Seal	1.52	293.28
1102	564 #	Calcium Chloride	.94	530.16
1111A	564 #	Metasilicate	2.52	1421.28
111PR	564 #	Bentonite-sol	.27	152.28
1107	150 #	Pho Seal	2.97	445.50
1142A	2 gal	KCL	41.10	82.20
1140G	800 gal	Mud Flush	1.00	500.00
4104	3	5" Baskets	290.00	870.00
4136	14	Turbulizers	75.75	1060.50
4159	1	5 1/2" AFA Plug	433.75	433.75
4310	1	Rotating head	150.00	150.00
4315	10	Bentoning Scratchers	94.50	945.00
4454	1	5 1/2" Catch down plug	567.00	567.00
Subtotal	24540.70	less 10% discount	2454.07	Subtotal 22086.63
		SALES TAX		1262.45
		ESTIMATED TOTAL		23349.08

Revin 3737

S

AUTHORIZATION

Buel Sales

TITLE

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.