



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1177052
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: _____

1177052

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Scale 1:240 Imperial

Well Name: STEELSMITH #1
Surface Location: SW NW NW NW Sec. 2 - 7S - 24W
Bottom Location:
API: 15-065-23974-00-00
License Number: 34916
Spud Date: 11/7/2013 Time: 4:15 AM
Region: GRAHAM COUNTY, KS
Drilling Completed: 11/13/2013 Time: 2:33 PM
Surface Coordinates: 370' FNL & 180' FWL
Bottom Hole Coordinates:
Ground Elevation: 2206.00ft
K.B. Elevation: 2211.00ft
Logged Interval: 3450.00ft To: 4057.00ft
Total Depth: 4050.00ft
Formation: LANSING - KANSAS CITY
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: FOURWINDS OIL CORPORATION
Address: P.O. BOX 1063
HAYS, KS 67601
Contact Geologist: DANNY WINDHOLZ
Contact Phone Nbr: (785) 259-8403
Well Name: STEELSMITH #1
Location: SW NW NW NW Sec. 2 - 7S - 24W API: 15-065-23974-00-00
Pool: WILDCAT
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.9743243 Latitude: 39.4791489
N/S Co-ord: 370' FNL
E/W Co-ord: 180' FWL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.
Address: 108 W 35TH
HAYS, KS 67601
Phone Nbr: (785)259-3737
Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 11/7/2013
 TD Date: 11/13/2013
 Rig Release: 11/14/2013
 Time: 4:15 AM
 Time: 2:33 PM
 Time: 9:00 AM

ELEVATIONS

K.B. Elevation: 2211.00ft
 K.B. to Ground: 5.00ft
 Ground Elevation: 2206.00ft

NOTES

THE STEELSMITH #1 WAS DRILLED OFF OF SEISMIC INTERPRETATION. THE SEISMIC INDICATED THINNING DOWN TO THE BASE OF THE KANSAS CITY. THINNING OCCURED, ALTHOUGH STILL LEAVING THIS WELL LOW STRUCTURALLY. THIS WELL RAN LOW TO A DRY HOLE IN THE AREA AND CONSIDERABLY LOW TO PRODUCTION NORTHWEST OF THIS WELL AND EXTREMELY LOW TO PRODUCTION TO THE EAST.

SAMPLE TOPS WERE ~15' - 20' HIGHER THAN LOG TOPS, THEREFORE CORRECTED DST'S SHOULD BE:

DST #1 LKC "C"
 DST #2 LKC "D" & "E"

SAMPLES WERE SAVED AND WILL BE AVAILABE AT THE KANSAS GEOLOGICAL SURVEY SAMPLE REPOSITORY.


DUE TO STRUCTURAL POSITION AND LACK OF RECOVERY ON BOTH DRILL STEM TESTS THE STEELSMITH WAS PLUGGED AND ABANDONED.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

	STEELSMITH #1																			
	PALOMINO PETROLEUM				REILLY OIL CO.				BAIRD OIL CO, LLC				BAIRD OIL CO, LLC							
	STORZ #1				SOTRZ #1-34				MCAMOIL - GOETZ UNIT #1-1				GRIDLEY TRUST #1-1							
	NW NW SE SE 34 - 6 - 24				NESW NW SE 34 - 6 - 24				E2 SE SE SW 1 - 7 - 24				NW SE NW NE 1 - 7 - 24							
	KB	2511	GL	2506	KB	2506	KB	2485	KB	2457	KB	2469								
	LOG TOPS				SAMPLE TOPS				LOG TOPS				SAMPLE TOPS							
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM				
ANHYDRITE TOP	2225	286	2222	289	2232	274	+ 12	+ 15	2197	288	- 2	+ 1	2156	301	- 15	- 12	2156	313	- 27	- 24
BASE	2259	252	2256	255	2265	241	+ 11	+ 14	2231	254	- 2	+ 1	2189	268	- 16	- 13	2189	280	- 28	- 25
TOPEKA	3579	-1068	3564	-1053	3572	-1066	- 2	+ 13	3535	-1050	- 18	- 3	3495	-1038	- 30	- 15	3497	-1028	- 40	- 25
HEEBNER SHALE	3783	-1272	3764	-1253	3773	-1267	- 5	+ 14	3735	-1250	- 22	- 3	3692	-1235	- 37	- 18	3694	-1225	- 47	- 28
TORONTO	3807	-1296	3788	-1277					3757	-1272	- 24	- 5	3715	-1258	- 38	- 19	3719	-1250	- 46	- 27
LKC	3819	-1308	3805	-1294	3810	-1304	- 4	+ 10	3769	-1284	- 24	- 10	3731	-1274	- 34	- 20	3734	-1265	- 43	- 29
STARK	3980	-1469	3971	-1460					3932	-1447	- 22	- 13	3891	-1434	- 35	- 26	3897	-1428	- 41	- 32
BKC	4009	-1498	4009	-1498	4004	-1498	+ 0	+ 0	3962	-1477	- 21	- 21	3923	-1466	- 32	- 32	3926	-1457	- 41	- 41
TOTAL DEPTH	4057	-1546	4050	-1539	4046	-1540	- 6	+ 1	4050	-1565	+ 19	+ 26	3960	-1503	- 43	- 36	4008	-1539	- 7	+ 0

DST #1 LKC D 3844' - 3870'

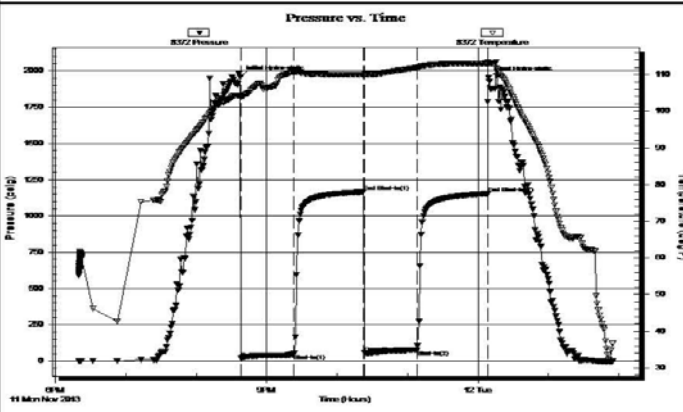
	DRILL STEM TEST REPORT	
	Fourw inds Oil Corp. PO Box 1063 Hays Ks. 67601 ATTN: Jeff Lawler	2-7s-24w Graham Steelsmith #1 Job Ticket: 54336 Test Start: 2013.11.11 @ 18:20:01
GENERAL INFORMATION:		
Formation: LKC "D" Deviated: No Whipstock: ft (KB) Time Tool Opened: 20:38:00 Time Test Ended: 01:55:00	Test Type: Conventional Bottom Hole (Initial) Tester: Andy Carreira Unit No: 68	

Interval: 3844.00 ft (KB) To 3870.00 ft (KB) (TVD)
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2511.00 ft (KB)
 2506.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 76.56 psig @ 3845.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.11 End Date: 2013.11.12 Last Calib.: 2013.11.12
 Start Time: 18:20:01 End Time: 01:55:00 Time On Btm: 2013.11.11 @ 20:37:30
 Time Off Btm: 2013.11.12 @ 00:09:00

TEST COMMENT: IF:(45min) 1" blow in 13 min. 2" in 29 min. Built to 2.75"
 ISl:(60min) No Return
 FF:(45min) 1" blow in 17 min. 2" in 40 min. Built to 2.25"
 FS:(60min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.22	104.29	Initial Hydro-static
1	19.51	103.86	Open To Flow (1)
46	49.12	110.77	Shut-In(1)
105	1166.54	110.04	End Shut-In(1)
106	55.87	110.05	Open To Flow (2)
151	76.56	111.89	Shut-In(2)
211	1154.09	113.06	End Shut-In(2)
212	1953.64	113.18	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
130.00	MVV	0.72

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 54336

Printed: 2013.11.12 @ 06:54:36

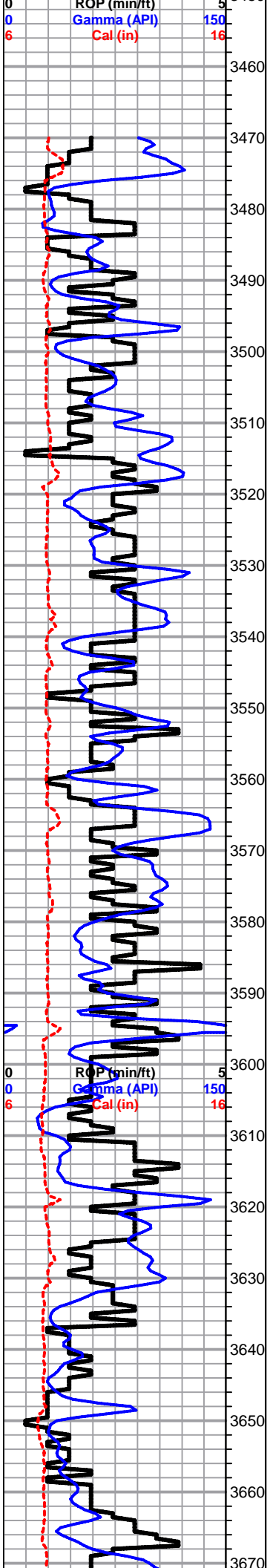
DST #2 LKC E-F 3869' - 3884'



DRILL STEM TEST REPORT
 Fourw inds Oil Corp. **2-7s-24w Graham**
 PO Box 1063 **Steelsmith #1**
 Hays Ks. 67601 Job Ticket: 54337 DST#: 2
 ATTN: Jeff Lawler Test Start: 2013.11.12 @ 17:34:01

GENERAL INFORMATION:
 Formation: LKC"E,F"
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:32:30 Tester: Andy Carreira
 Time Test Ended: 01:02:30 Unit No: 68
 Interval: 3869.00 ft (KB) To 3884.00 ft (KB) (TVD) Reference Elevations: 2511.00 ft (KB)
 Total Depth: 3884.00 ft (KB) (TVD) 2506.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 5.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 67.20 psig @ 3870.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.12 End Date: 2013.11.13 Last Calib.: 2013.11.13
 Start Time: 17:34:01 End Time: 01:02:30 Time On Btm: 2013.11.12 @ 19:32:00
 Time Off Btm: 2013.11.12 @ 23:07:30



1' DRILL TIME THROUGH ANHYDRITE FROM 2220' - 2280'
1' DRILL TIME FROM 3470' - RTD
10' WET/DRY SAMPLES FROM 3520' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3520' - RTD

8 5/8" SURFACE PIPE SET @ 304' SURVEY 3/4 dgr.

ANHYDRITE TOP 2222' (+289) E-LOG 2225' (+286)
BASE 2256' (+255) E-LOG 2259' (+252)

Lm- Cream Tan Buff, FXLN, dense, sl fsl, well cemented, poorly dev. w/ XLN porosity

Sh- Maroon Brick Red, gritty & earthy

Lm- Cream Tan, FXLN, mix of sl fsl, well cemented, mod. dev. w/ sctrd to dense XLN porosity & sub-sucrosic sl dolomitic ls w/ consistant micro XLN porosity, throughout, loosely cemented & chalk to well cemented, barren

Lm- Lt Gray, FXLN, fsl, well cemented, poorly dev. w/ XLN porosity

Lm- Buff Tan, FXLN, dense, high-energy bioclastic mix w/ fsl fragments, sl trashy, well cemented, sctrd micro XLN & XLN porosity

Sh- Lt Gray Lm Green, silty, gummy argillaceous wash, silty & soft, calcareous

Lm- Cream Tan, F-Med XLN, fsl, mod. dev. w/ dense micro XLN & XLN porosity, some clear cemented fsl biomicrite, barren

Sh- Lt Gray Lm Green, silty & soft, calcareous

TOPEKA 3564' (-1053) E-LOG 3579' (-1068) Lm- Cream Tan, F-Med XLN, densely packed fsl w/ fusulinids, well cemented, sl dev. w/ dense fenestral XLN porosity, barren

Lm- Cream Tan, F-Med XLN, well cemented, sl dev., heavily fsl, fenestral XLN porosity, poor effective porosity, barren

Sh- Maroon Lm Green Lt Gray White, most all gritty & earthy, soft white chalk

Lm- Cream Off White, VFXLN, densely packed small oolites, poorly dev. & well cemented, micro XLN porosity, poor effective porosity, barren

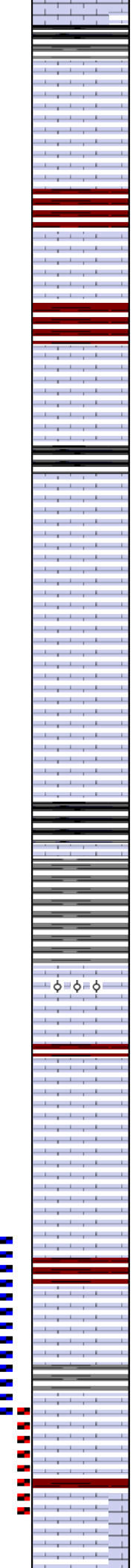
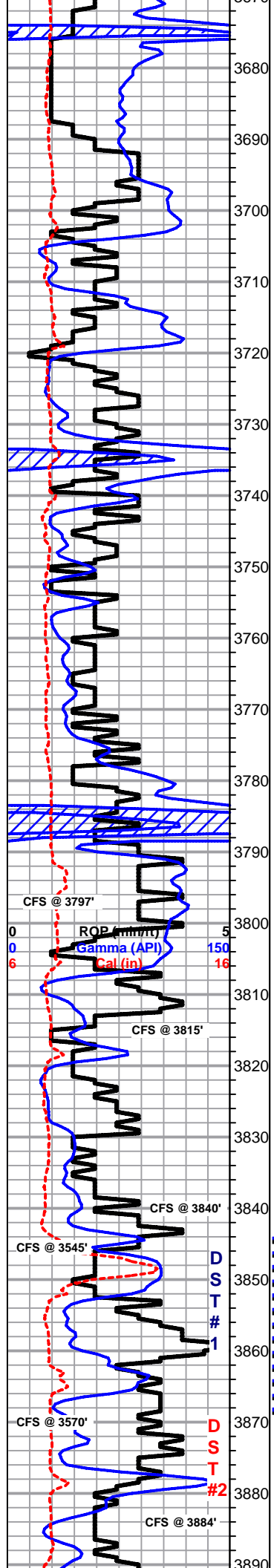
Lm- White Off White, VF-FXLN, most loosely cemented to chalky, sl fsl, poorly dev., vry clean, barren, few pcs of fsl sl dolomitic chert

Lm- Cream, Med XLN, fsl & oolitic biomicrite, most w/ clear siliceous cementation, some w/ sctrd XLN & ppt porosity, barren

Chert- White Milky White Smokey Tan, mix of gritty sl dolomitic chert, fsl fresh bedded chert, & some cherty ls, all w/o vis. porosity, vry well cemented, & barren

Lm- Cream Off White, VF-FXLN, fsl & oolitic, densely packed, poorly dev. micro XLN porosity, poorly cemented & chalky, vry clean, barren

Sh- Maroon White, gritty & earthy, sl sandy, gummy argillaceous



Sh- Black Lt Gray, soft, fissile, carbonaceous, silty, sandy

Lm- Cream, VF-FXLN, fsl & oolitic, poorly dev. massive, spherical, well cemented, micro XLN porosity, vry clean, barren, much soft white chalk

Sh- Maroon, gritty & earthy, sandy, gummy argillaceous clumps

Lm- Cream Off White, FXLN, oolitic w/ fusulinids, mod. dev. w/ micro XLN & sctrd fn ppt porosity, well cemented, vry clean, barren

Lm- Buff Tan, FXLN, dense, sl fsl, poorly dev. & mostly tight w/ sctrd micro XLN porosity, barren

Sh- Black Drk Gray Lm Green, soft, fissile, carbonaceous, silty & calcareous, soft & silty

Lm- A/A w/ much soft white chalk & few pcs of tight cherty ls & sl fsl fresh bedded chert

Lm- A/A w/ increasing amount of fsl chert, some soft white chalk

Lm- Cream Tan, VF-FXLN, dense, tight, well cemented, sl cherty ls w/ micro XLN & sctrd XLN porosity, few pcs of poorly dev. oolitic biomicrite w/ tan cementation & no vis. porosity, barren

HEEBNER 3764' (-1253) E-LOG 3783' (-1272) Sh- Black, fissile, carbonaceous

Sh- Lt Gray, gummy argillaceous clumps

TORONTO 3788' (-1277) E-LOG 3807' (-1296) Lm- Cream Tan, Med XLN, oolitic, sl dev. loosely-well cemented, mostly massive, clear cementation & clear recrystallization inclusions, micro XLN porosity, barren

LKC 3805' (-12894) E-LOG 3819' (-1308) Lm- Cream Tan, F-Med XLN, densely packed med. oolites w/ clear cementation, spherical, no vis. interoolite porosity, barren, much soft white chalk

Lm/Chert- Cream Milky White, VF-FXLN, dense, sl fsl, mostly tight w/ minimal vis. porosity, several pcs of fsl fresh bedded chert, barren, vry much soft white chalk

Lm- Cream Off White, VFXLN, dense, sl fsl, mostly tight w/ micro XLN porosity, vry much soft white chalk

Lm- Cream Off White, VF-FXLN, dense, sl fsl, mostly tight w/ micro XLN porosity, barren, much white chalk

Lm- Cream Tan, FXLN, densely packed small oolites, mostly tight w/ micro XLN porosity, few pcs w/ loosely packed med. oolites w/ sctrd interoolite porosity, barren, much soft white chalk, barren

Chert/Dol- Mix of cream FXLN, mod. dev. sucrosic dol w/ constant XLN porosity, barren, various colored fsl fresh bedded chert

Lm- Cream Tan, FXLN, loosely cemented, fsl & oolitic, mod. well dev. w/ sctrd ppt interoolitic porosity, SCTRD DRK TARRY STN, SFO, NO ODR

Lm- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. sctrd XLN porosity, barren

Lm- White Off White, VF-FXLN, dense, sl chalky in part, sctrd micro XLN porosity, vry clean, barren

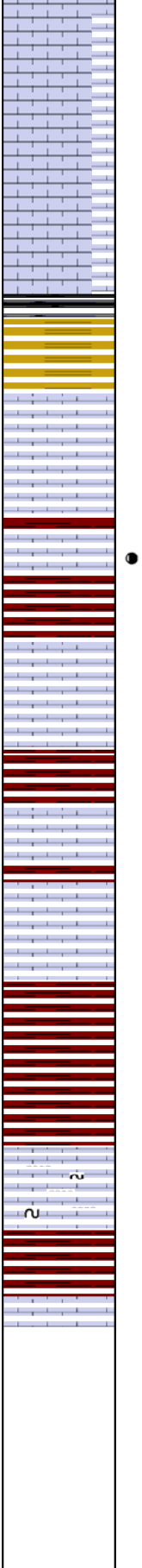
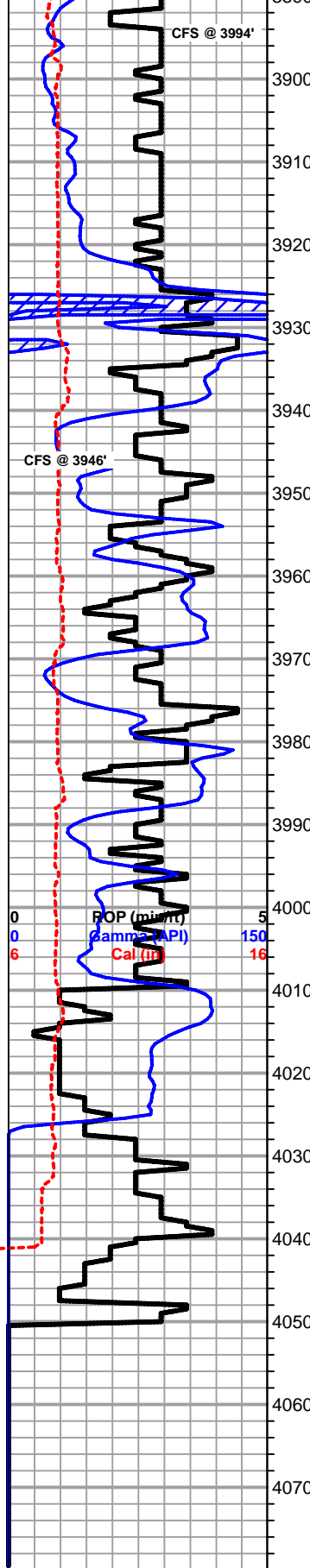
Lm- White Cream, VF-FXLN, dense mix, some white VFXLN w/ sctrd ppt porosity, constant micro pyrite inclusions, SCTRD DTK STN, SL SFO, FNT ODR, some cream dense, vry well cemented sl dolomitic ls w/ minimal vis. porosity, few pcs w/ TARRY DRK STN ALONG EDGE PLANES

SHORT TRIP SURVEY 1 dgr

DST #1
LKC D
3844' - 3870'

STRAP +2.00'

DST #2
LKC E-F
3869' - 3884'



Lm- White, FXLN, mix of sl-mod. dev. oolitic, sctrd ppt interoolite porosity, loosely-well cemented, SCTRDRK BRWN STN, SFO, NO ODR, & much soft white chalk
40" SMPL- abundant soft white chalk A/A

Lm- Cream Off White, FXLN, fsl & sl oolitic, poorly dev., loosely cemented & chalky, sctrd XLN porosity, vry clean, barren

Sh- Black Brown Gray, fissile, vry wel compacted, carbonaceous, gritty & earthy, some gray wash

Lm- Cream Off White, FXLN, fsl & sl oolitic, sl dev. w/ sctrd XLN porosity, few w/ dense fenestral XLN porosity, clean & barren
 Lm- Cream Lt Gray, FXLN, dense, mostly tight, some sl chalky in part, poor XLN porosity, barren

Lm- White Cream, F-Med XLN, oolitic mix, some poorly dev. cream FXLN, vry well cemented, mostly tight w/ micro XLN porosity & white F-Med XLN, sl dev. w/ sctrd XLN porosity, ALL W/ DRK BLK DO & WK LT BRWN STN, TR SFO, SOME GILSONITE, WK ODR, much soft white chalk

Lm- Cream Off White, FXLN, dense, poorly dev. & mostly tight w/ minimal vis. porosity, barren
 Lm- Cream Off White, FXLN, dense, well cemented, mostly tight w/ sctrd XLN porosity, clean & barren, few pcs of VFXLN, lithographic w/o vis. porosity

Sh- Maroon Lm Green, gritty & earthy, sandy lime, some sl argillaceous clumps
 Lm- White w/ sl Ylw tint, fsl & sl oolitic, reworked appearance, loosely cemented & chalky, barren

Lm- Tan, VFXLN, dense, tight cherty ls, possibly fractured w/ dense XLN porosity, barren

BKC 4009' (-1498) E-LOG 4009' (-1498) Sh- Maroon Brown, gritty & earthy, sandy lime, shaley Ss, sandy gummy clumps

Lm- White Off White, FXLN, fsl & sl oolitic, sl unconsolidated w/ reworked appearance, some w/ lt glauconite spkng, loosely cemented & chalk in part, dense XLN porosity, few w/ fenestral XLN porosity, barren

Sh- Maroon, gritty & earthy

Lm- White Off White, VF-FXLN, dense, vry well cemented, sl fsl & densely packed w/ small oolites, some w/ sctrd micro XLN porosity, vry clean, barren

RTD 4050' (-1539) LTD 4057' (-1546) @ 14:33 11/13/2013

10 STAND MINI
 TRIP
 CTCH
 TOH FOR LOG



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

2-7s-24w Graham

PO Box 1063
Hays Ks. 67601

Steelsmith #1

Job Ticket: 54337

DST#: 2

ATTN: Jeff Lawler

Test Start: 2013.11.12 @ 17:34:01

GENERAL INFORMATION:

Formation: LKC"E,F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:30

Time Test Ended: 01:02:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 3869.00 ft (KB) To 3884.00 ft (KB) (TVD)

Total Depth: 3884.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2511.00 ft (KB)

2506.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 67.20 psig @ 3870.00 ft (KB)

Start Date: 2013.11.12 End Date: 2013.11.13

Start Time: 17:34:01 End Time: 01:02:30

Capacity: 8000.00 psig

Last Calib.: 2013.11.13

Time On Btm: 2013.11.12 @ 19:32:00

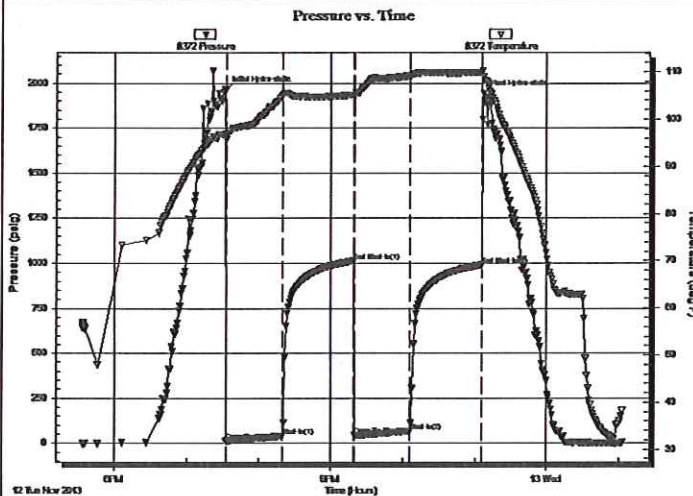
Time Off Btm: 2013.11.12 @ 23:07:30

TEST COMMENT: IF:(45min) 1" blow in 4 min. 2" in 15 min. 3" in 25 min. Built to 3.75"

ISL:(60min) No Return

FF:(45min) 1" blow in 17 min. 2" in 41 min. Built to 2.25"

FSI:(60min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.42	96.83	Initial Hydro-static
1	13.12	95.74	Open To Flow (1)
48	40.38	105.15	Shut-In(1)
107	1013.02	105.16	End Shut-In(1)
108	43.11	104.73	Open To Flow (2)
154	67.20	109.21	Shut-In(2)
214	991.93	109.81	End Shut-In(2)
216	1941.24	108.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW w/ oil spcks in tool	0.44

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Fourwinds Oil Corp.

2-7s-24w Graham

PO Box 1063
Hays Ks. 67601

Steelsmith #1

Job Ticket: 54337

DST#: 2

ATTN: Jeff Lawler

Test Start: 2013.11.12 @ 17:34:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	81000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MW w/ oil spcks in tool	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Resistivity - .33 @ 21 deg = 81000

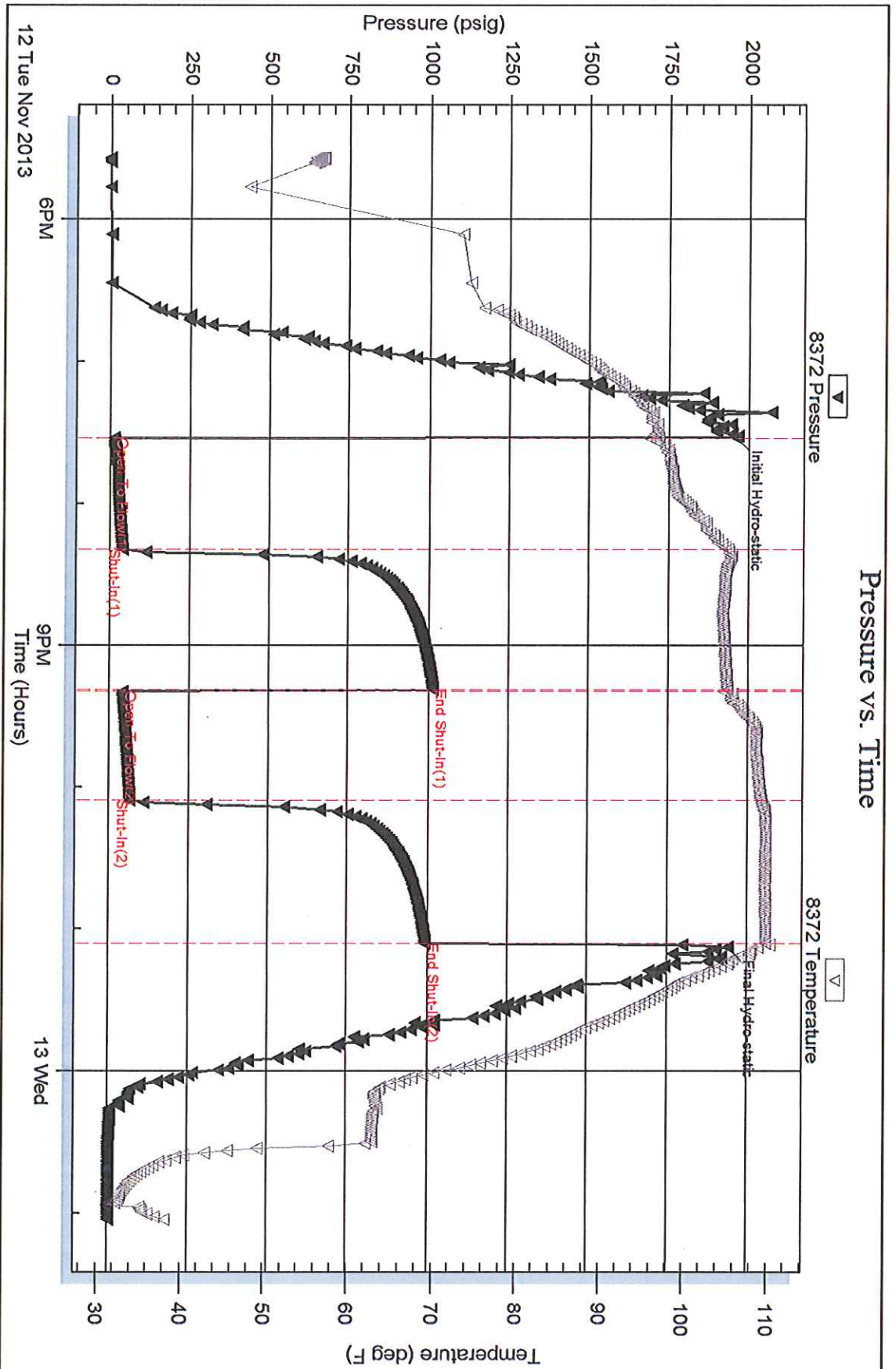
Serial #: 8372

Inside

Fourw inds Oil Corp.

Steelsmith #1

DST Test Number: 2



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. 7472

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-7-13	2	7	24	Concham	KS		9:30pm
Location				N 1/4 City W to Ancker @ 80 E into			

Lease	Well No.	Owner	
Steelsmith	1	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Type Job	Charge To	
WW #6	Surface	Four Winds	
Hole Size	T.D.	Street	
12 1/4	305		
Csg.	Depth	City	
8 5/8	305	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered 180.00m 3 1/2 CC 2 1/2 GEL	
Cement Left in Csg.	Shoe Joint		
15'			
Meas Line	Displace		
	18 3/4 BCL		

EQUIPMENT			Common
Pumptrk	No.	Cement	180
5		Helper	
Bulktrk	No.	Driver	Poz. Mix
		Donnie	Gel. 3
Bulktrk	No.	Driver	Calcium 6
14		Doug	

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
8 5/8 on bottom. Est. Circulation		Handling 189
mix 180 sec Displace.		Mileage

FLOAT EQUIPMENT	
Cement Circulated!	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	33

X Signature	Tax
	Discount
	Total Charge

