



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1208922  
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: \_\_\_\_\_

1208922

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

<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Office (620) 588-4250 212 Main St. - P.O. Box 215 - Claflin, KS 67525 Home (620) 587-3444

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY Mai Oil Operations Inc.

LEASE Diets #4

FIELD Trapp

LOCATION W/2-SE-SE-1NW (2310' FNL 2025- Fwy)

SEC 3 TWP 16S RGE 14W

COUNTY Barton STATE Kansas

CONTRACTOR Southwind Drilling Co. (rig #3)

SPUD 7-12-12 COMP 7-18-2012

RTD 3461 LTD 3460

MUD UP 2700 TYPE MUD Chemical displaced

SAMPLES SAVED FROM 2800

DRILLING TIME KEPT FROM 2800

SAMPLES EXAMINED FROM 2800

GEOLOGICAL SUPERVISION FROM 2900

GEOLOGIST ON WELL Jim Musgrove

ELEVATIONS

KB 1930

DF \_\_\_\_\_

GL 1922

Measurements Are All From -KB-

CASING SURFACE 8 5/8" 433

PRODUCTION 5 1/2" 6

ELECTRICAL SURVEYS

By Superior Well Services; DILL, CPL/OWB, MEL

TO \_\_\_\_\_

TO \_\_\_\_\_

TO \_\_\_\_\_

TO \_\_\_\_\_

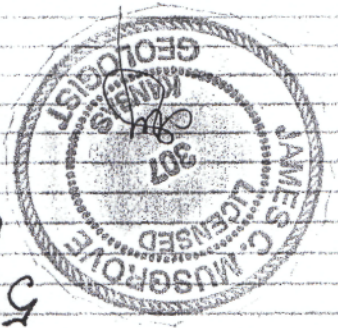
FORMATION TOPS	LOG	SAMPLES
Anhydrite	913 +1017	
Base anhydrite	947 +983	
Topeka	2840 -910	
Hobner	3070 -1140	
Toronto	3088 -1158	
Jansing	3136 -1206	
Base Kansas City	3342 -1412	
Conglomerate	3361 -1431	
Orbuckle	3370 -1440	
RTD	3461 -1531	
LTD	3460 -1530	

5 1/2" production casing was set & cemented on the Diets #4.

Requesting submitted,

James C. Musgrove

Petroleum Geologist



REMARKS

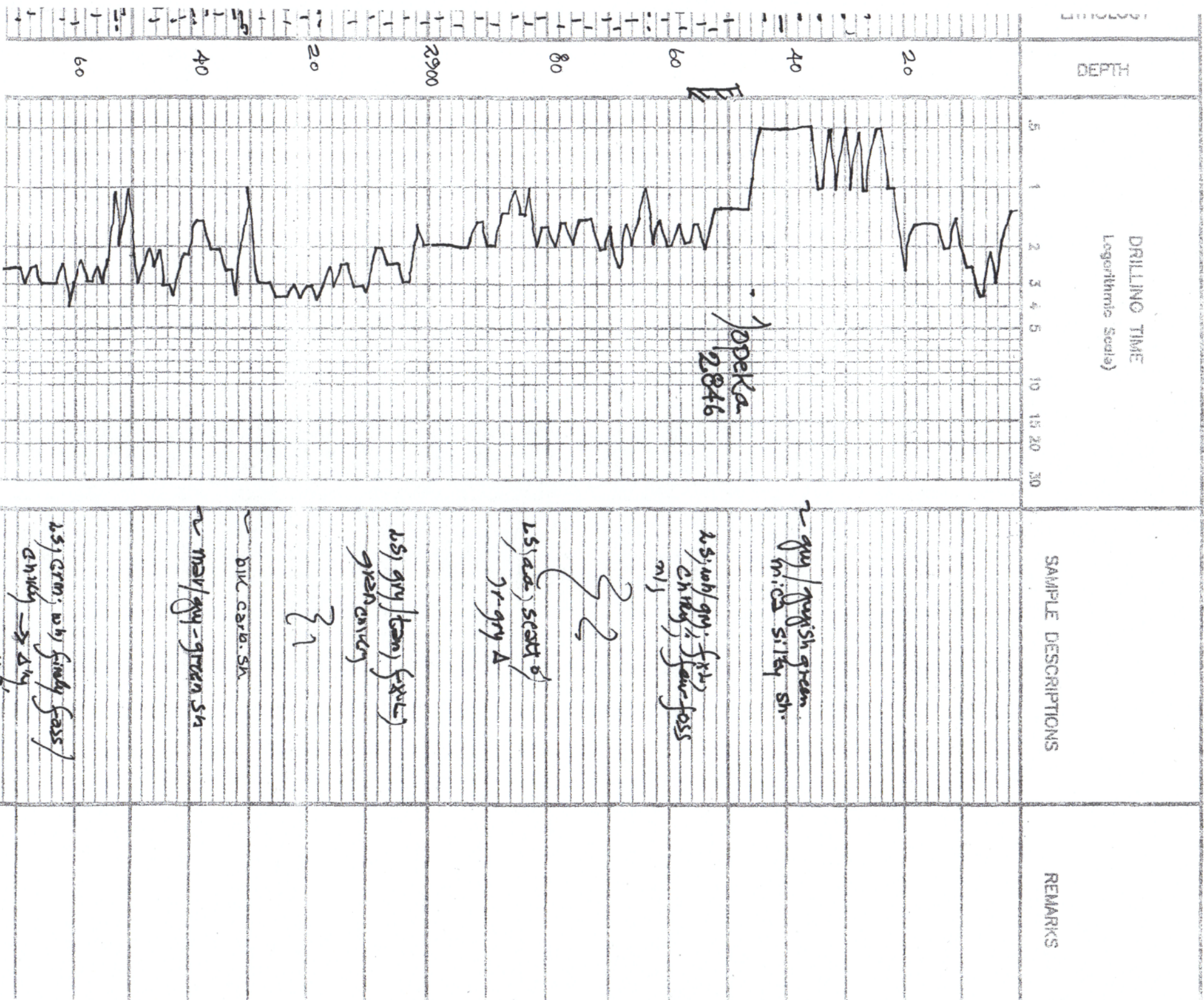
LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
	Carbon
	Limestone
	Collima
	Chert
	Dolomite

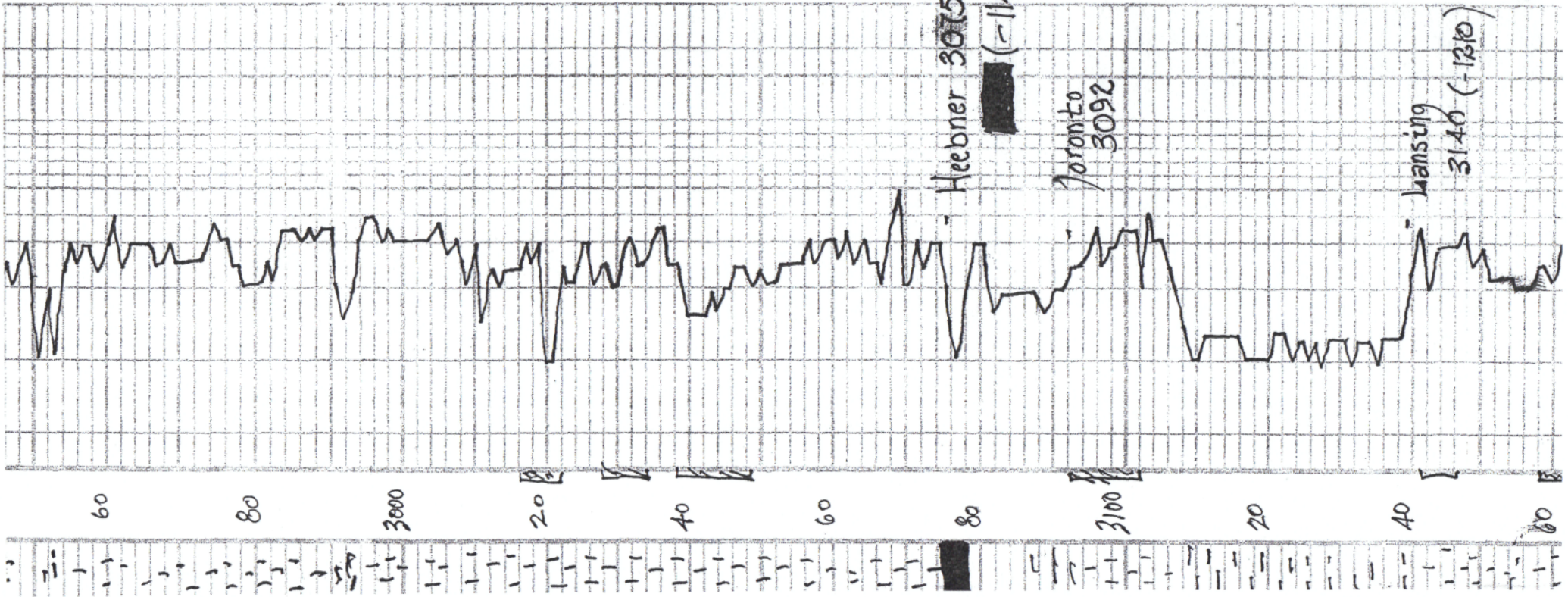
DRILLING TIME

AS









LS, CRM, wh, finely foss,  
chky → Δ<sub>14</sub>  
poor vis<sup>o</sup>

31

- blk carb. sh

Tr. gry / amber Δ

LS, CRM, wh, ool / foss, chky,  
poor vis<sup>o</sup>, Tr. brown sh,  
ns fo, no odor

- 1930 KB -

LS, gry / wh, ool, chky,  
poor vis<sup>o</sup>, n/s

32

Tr. gry, brny = opaque A

- blk carb. sh.

gry / grayish green sh.

LS, wh / gry, fxb, foss in  
part, spamy / calc. cement  
n/s

31

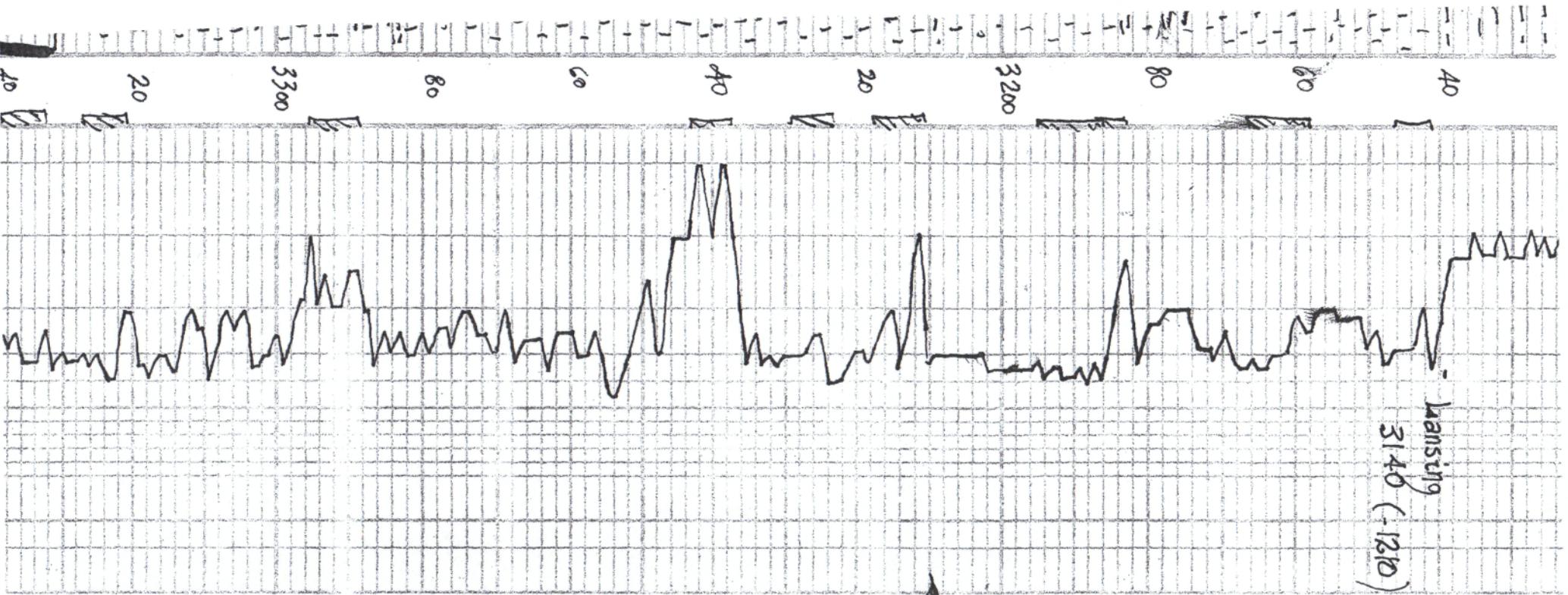
blk / gry - green soft  
ool sh.

Tr. vfg, mica sand,  
37 soft 150 n/s

LS, tan, gry, fxb, chky =  
Δ<sub>14</sub> (dense) n/s

LS, gry, highly ool, Δ<sub>14</sub> in  
part, poor vis<sup>o</sup> n/s





can. sn  
 2 2 SCOT 1 5 6 m/s

LS tan, gray, fXh, chunky =  
 dry (dense) m/s

LS gray; highly ool, dry in  
 part; poor vis & m/s

LS gray/wh, ool, chunky,  
 SCOT, light brown str, Jr. fcs  
 no odor

1 yr. gray - blk sh.

LS, sm, wh, sub-ool, chunky  
 Poor vis & fr. blk, dk  
 heavy str, sfo (gray); no odor

LS, wh, tan, ool, sub-ool,  
 chunky, fr. Poor str, m/s fo  
 fr. odor.

LS, gray, cream, ool, good  
 ool (barren)

LS, wh, gray, chunky / few  
 dry (dx)

2 2  
 ool, yr. gray Δ

~ blk canke sh

LS, wh, ool / fcs, fr.  
 gray - brown str, m/s fo, no odor.

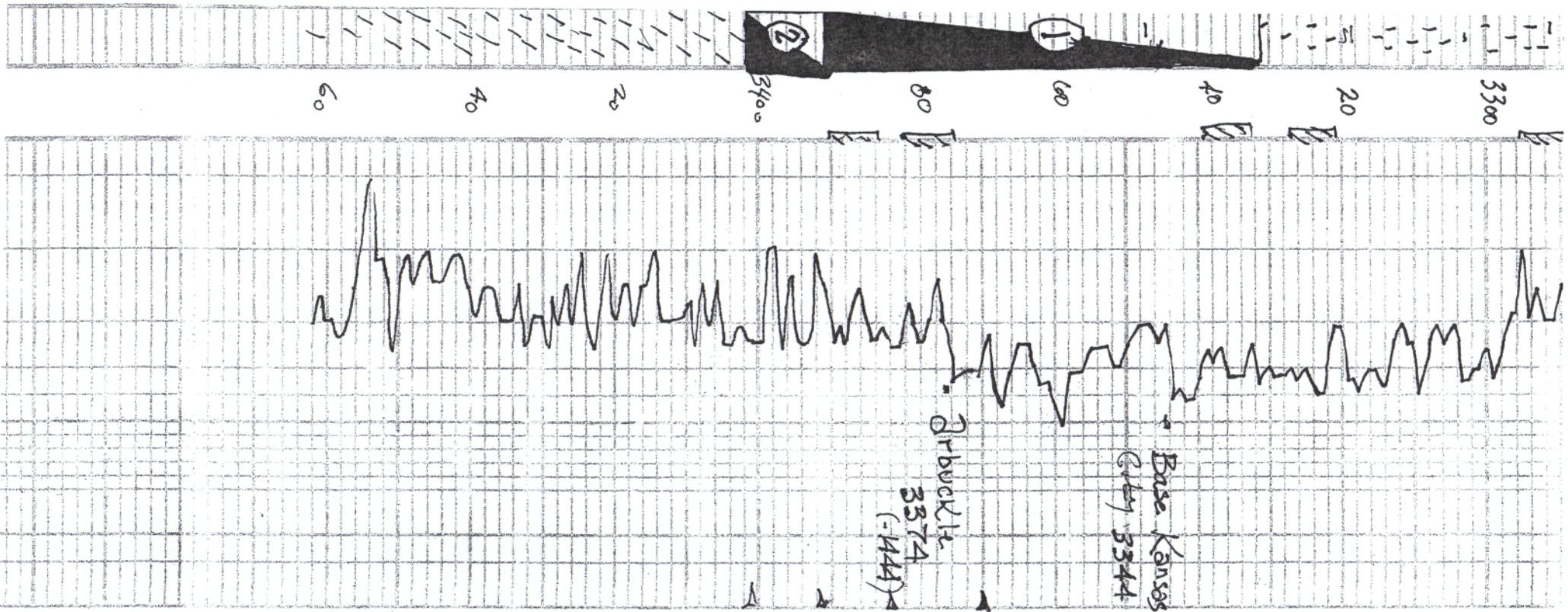
few sub-ool, fr. str, m/s fo  
 fr. odor

LS, wh, ool / fcs, SCOT &  
 Jr. brown str, m/s fo, fr. odor

1930 KB-

odor  
 odor





US, wh, oil / fossil fr.  
 grey - brown skin, n.s.f.o., no odor

few sub-equm fr. skin n.s.f.a.  
 + FeS<sub>2</sub> fr. odor

US, wh, oil / fossil, scat of  
 gr. brown skin, n.s.f.o.; fr. odor

gr. US, grey chunky;

gr. US, grey skin

US, wh (gr) chunky - A's

gr. / green sk  
 US, wh (gr), fr. wh, chunky, round,  
 fr. skin, n.s.f.o., fr. odor

dol, tan, buff, fr. L, few  
 med. xly, succ, fr. pp d, few gray  
 light brown / golden brown skin  
 SFO, fr. / fr. odor

any fr. / good odor / SFT,  
 SFO, good odor.

dol, wh. gy. fr. suc. in part  
 dense 1xL. V. gy. / fr. br. sk  
 fr. FO fl. odor

dol, gy. buff fr. med. xly fr. wh,  
 br. blk. str. ??? fr. HO L. oil

Plus wh. boony Δ  
 dol, grey - buff fr. med. xly, gran  
 in part, fr. spotty blk. str. n.s.f.o.  
 no odor, few scattered in type,  
 thick - th. gy. Δ

odor

odor

Dst #1 3331-33  
 30-30-30-30  
 Blow, weak

Recovery; 2' clean  
 18' oil spots

pressures; ISIP 864  
 55.1p 73  
 IHP 31.1  
 55.1p 36.  
 1672  
 -144

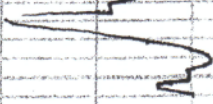
Dst #2 3331-34  
 30-15-30-30  
 Blow, weak

Recovery;  
 3' slighly o  
 cur muddy  
 (396 oil); 77.96  
 2070 mud)

3' mud  
 pressures; ISIP 864  
 55.1p 89  
 ISIP 15.  
 55.1p 22  
 1688  
 1688



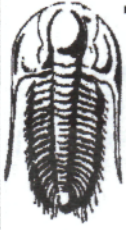
60



Woodor few scattered lvs. type of  
+ wh - lt. grey A

HSM  
1688-1612





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Mai Oil Operations  
8411 Preston Rd. Ste 800  
Dallas TX 75225  
ATTN: Kurt Mai

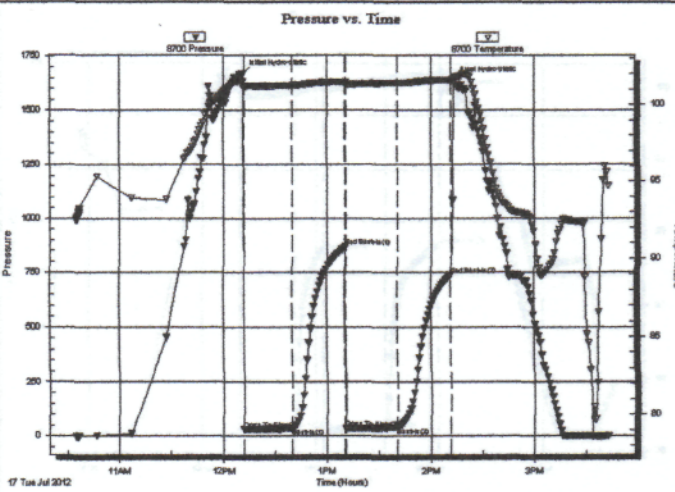
**3-16s-14w Barton,KS**  
**Dietz #4**  
Job Ticket: 47438      DST#: 1  
Test Start: 2012.07.17 @ 10:35:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: **No Whipstock:**                      ft (KB)      Test Type: **Conventional Bottom Hole (Initial)**  
Time Tool Opened: 12:12:00      Tester: **Troy Leiker**  
Time Test Ended: 15:42:30      Unit No: **42**  
Interval: **3331.00 ft (KB) To 3391.00 ft (KB) (TVD)**      Reference Elevations:      1930.00 ft (KB)  
Total Depth: **3391.00 ft (KB) (TVD)**      1922.00 ft (CF)  
Hole Diameter: **7.88 inches** Hole Condition: **Good**      KB to GR/CF:      8.00 ft

**Serial #: 8700      Outside**  
Press@RunDepth:      39.01 psig @      3335.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2012.07.17      End Date:      2012.07.17      Last Calib.:      2012.07.17  
Start Time:      10:35:05      End Time:      15:42:29      Time On Btrr:      2012.07.17 @ 12:11:30  
Time Off Btrr:      2012.07.17 @ 14:13:30

**TEST COMMENT:** IF 30- weak blow built to 1/4"  
ISI 30 no blow  
FF 30 surface blow  
FSI 30 no blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.75	101.54	Initial Hydro-static
1	30.79	101.05	Open To Flow (1)
29	34.21	101.25	Shut-In(1)
59	866.38	101.48	End Shut-In(1)
60	36.42	101.23	Open To Flow (2)
89	39.01	101.40	Shut-In(2)
120	739.46	101.60	End Shut-In(2)
122	1640.85	101.81	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	clean oil	0.03
18.00	osm 2%o 98%m	0.25

**Gas Rates**

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



# 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. 911

Date	7-13-12	Sec.	3	Twp.	16	Range	14	County	Barton	State	Ks	On Location		Finish	1:45 AM	
Lease	Dietz		Well No.		4		Location Barton + Russell County Line, SW									
Contractor	Southwind #3							Owner 1/2 S, E 1 Into								
Type Job	Surface							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.								
Hole Size	12 1/4"		T.D.		433'		Charge To									
Csg.	8 3/8"		Depth		433'		Main oil operations									
Tbg. Size			Depth				Street									
Tool			Depth				City State									
Cement Left in Csg.	15'		Shoe Joint		15'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace		26 1/2 BCS		Cement Amount Ordered 225 sx 60/40 3% CC 2% Gel									
<b>EQUIPMENT</b>																
Pumptrk	5	No.	Cementer	Brett				Common								
Bulktrk	8	No.	Driver	Jason				Poz. Mix								
Bulktrk	p.u.	No.	Driver	Rick				Gel.								
<b>JOB SERVICES &amp; REMARKS</b>																
Remarks:	Cement did Circulate.							Calcium								
Rat Hole								Hulls								
Mouse Hole								Salt								
Centralizers								Flowseal								
Baskets								Kol-Seal								
D/V or Port Collar								Mud CLR 48								
								CFL-117 or CD110 CAF 38								
								Sand								
								Handling								
								Mileage								
<b>FLOAT EQUIPMENT</b>																
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								1-wooden plug								
								Pumptrk Charge								
								Mileage								
								Tax								
								Discount								
								Total Charge								
X Signature	Jay Hines															



# 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. 918

Date	7-18-12	Sec.	3	Twp.	16	Range	14	County	Barton	State	Ks	On Location	Finish	9:45pm		
Lease	Dietz	Well No.	4		Location Barton + Russell Co. Line + 281 Hwy, 1W											
Contractor	Southwind #3				Owner	K.S. E/Into										
Type Job	Production				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.											
Hole Size	7 7/8"		T.D.	3461'		Charge To									Main oil operations	
Csg.	5 1/2" 14# New		Depth	3459'		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.	21.38'		Shoe Joint	21.38'		Cement Amount Ordered									155 sx 60/40 10% Salt + 2%	
Meas Line			Displace	84 BLS		Gel 1/2 Fl. seal - 1000 gal Mud Clear 48										

**EQUIPMENT**

Pumptrk	15	No.	Cementer	Nick	Helper	Common
Bulktrk	8	No.	Driver	<del>Lucas</del>	Cody	Poz. Mix
Bulktrk		No.	Driver	Rick		Gel.

**JOB SERVICES & REMARKS**

Remarks: pipe on bottom, break	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
down, wash pump + lines.	CFL-117 or CD110 CAF 38
Release of displaced with	Sand
89 BLS of water. Released	Handling
Float held.	Mileage

**FLOAT EQUIPMENT**

Lift pressure 700 #	Guide Shoe
Land plug to 1500 #	Centralizer 9 turbo's
turbo's on Jts. 1-9	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

	Tax	
	Discount	
X Signature <i>[Signature]</i>	Total Charge	