

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1259221
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: _____

1259221



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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: Blake Exploration, LLC Lic# 33306 Contractor: Discovery Drilling Co., Inc. LIC#31548
201 South Main - P. O. Box 150 PO Box 763
Bogue, KS 67625 Hays, KS 67601

Lease: Henderson # 7-8 Location: 2305 FSL - 2291 FEL
SE/NW/NW/SE
Section 22/ 11S/ 18W
Ellis County, KS

Loggers Total Depth: No Log API#15- 051-26,785-00-00
 Rotary Total Depth: 3483' Elevation: 1934 GL - 1942 KB
 Commenced: 7/2/2015 Completed: 7/8/2015
 Casing: 8 5/8" @ 227.05'W/150sks Status: Oilwell
5 1/2" @ 3478'W/150sks
D V Tool @ 1212'W/205sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1256'</u>
Dakota Sand	<u>501'</u>	Shale & Lime	<u>1760'</u>
Shale	<u>639'</u>	Shale	<u>2161'</u>
Cedar Hill Sand	<u>713'</u>	Shale & Lime	<u>2449'</u>
Red Bed Shale	<u>932'</u>	Lime & Shale	<u>3124'</u>
Anhydrite	<u>1224'</u>	RTD	<u>3483'</u>
Base Anhydrite	<u>1256'</u>		

KCC WICHITA
JUL 30 2015
RECEIVED

STATE OF KANSAS)
) ss
 COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

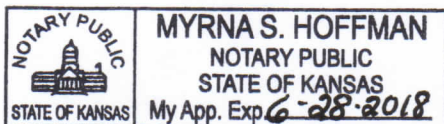
Thomas H. Alm

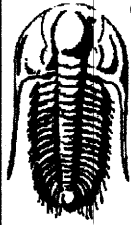
Subscribed and sworn to before me on 7-9-2015

My Commission expires: 6-28-2018

(Place stamp or seal below)

Notary Public





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blake Exploration

22-11-18, Ellis, KS

PO Box 150
Bogue KS 67625

Henderson #7-8

Job Ticket: 64703

DST#: 1

ATTN: Mike Davignon

Test Start: 2015.07.05 @ 14:00:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:33:45

Time Test Ended: 19:18:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brett Dickinson**

Unit No: **81**

Interval: **3076.00 ft (KB) To 3100.00 ft (KB) (TVD)**

Total Depth: **3100.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **1943.00 ft (KB)**

1935.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **8957**

Inside

Press@RunDepth: **42.46 psig @ 3077.00 ft (KB)**

Start Date: **2015.07.05**

End Date: **2015.07.05**

Capacity: **8000.00 psig**

Last Calib.: **2015.07.05**

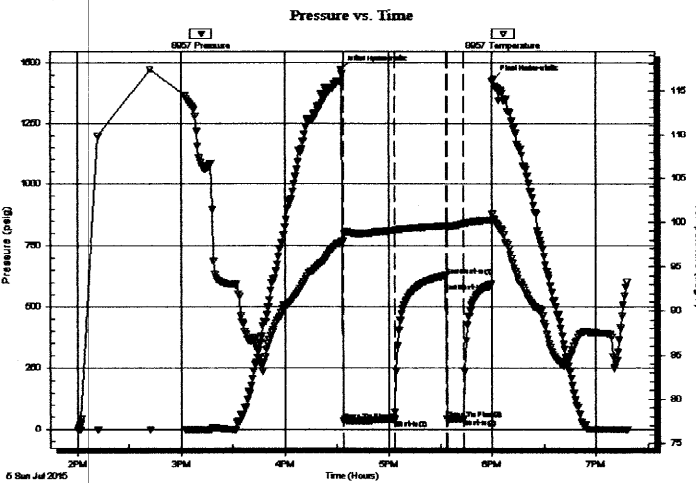
Start Time: **14:00:00**

End Time: **19:18:30**

Time On Btm: **2015.07.05 @ 16:32:30**

Time Off Btm: **2015.07.05 @ 18:01:00**

TEST COMMENT: **F-surface blow
SI-No blow
FF-No blow
FSI-No blow**



PRESSURE SUMMARY

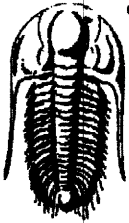
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.24	97.67	Initial Hydro-static
2	34.06	97.89	Open To Flow (1)
31	39.41	99.07	Shut-In(1)
61	628.66	99.59	End Shut-In(1)
62	40.49	99.45	Open To Flow (2)
71	42.46	99.80	Shut-In(2)
88	596.75	100.25	End Shut-In(2)
89	1432.18	100.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	OS Mud	0.46

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

22-11-18, Ellis, KS

PO Box 150
Bogue KS 67625

Henderson #7-8

Job Ticket: 64704

DST#: 2

ATTN: Mike Davignon

Test Start: 2015.07.06 @ 10:00:00

GENERAL INFORMATION:

Formation: **KC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:51:00

Time Test Ended: 16:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: **3240.00 ft (KB) To 3271.00 ft (KB) (TVD)**

Total Depth: 3271.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1943.00 ft (KB)

1935.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8957

Inside

Press@RunDepth: 36.75 psig @ 3241.00 ft (KB)

Start Date: 2015.07.06

End Date: 2015.07.06

Start Time: 10:00:00

End Time: 16:09:00

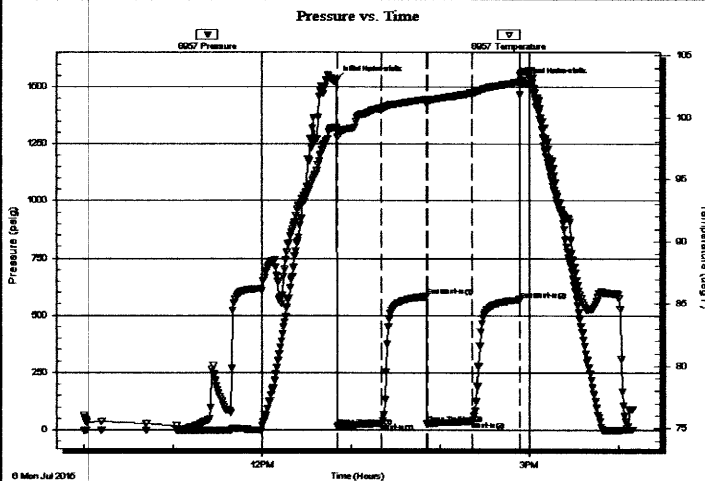
Capacity: 8000.00 psig

Last Calib.: 2015.07.06

Time On Btm: 2015.07.06 @ 12:50:15

Time Off Btm: 2015.07.06 @ 14:54:15

TEST COMMENT: IF-1 1/4in blow
IS-No blow
FF-surface blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.35	99.19	Initial Hydro-static
1	17.90	98.42	Open To Flow (1)
30	28.52	100.74	Shut-In(1)
61	584.47	101.47	End Shut-In(1)
61	29.00	101.33	Open To Flow (2)
91	36.75	101.98	Shut-In(2)
123	570.49	102.87	End Shut-In(2)
124	1526.77	103.60	Final Hydro-static

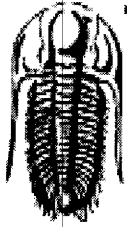
Recovery

Length (ft)	Description	Volume (bbl)
45.00	OS Mud	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Blake Exploration

22-11-18, Ellis, KS

PO Box 150
Bogue KS 67625

Henderson #7-8

Job Ticket: 64705

DST#: 3

ATTN: Mike Davignon

Test Start: 2015.07.07 @ 06:25:00

GENERAL INFORMATION:

Formation: **Arb**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:07:30

Time Test Ended: 14:26:15

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brett Dickinson**

Unit No: **81**

Interval: **3440.00 ft (KB) To 3483.00 ft (KB) (TVD)**

Total Depth: **3483.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1943.00 ft (KB)**

1935.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8957 **Inside**

Press@RunDepth: **934.72 psig @ 3441.00 ft (KB)**

Start Date: **2015.07.07**

End Date: **2015.07.07**

Capacity: **8000.00 psig**

Start Time: **06:25:05**

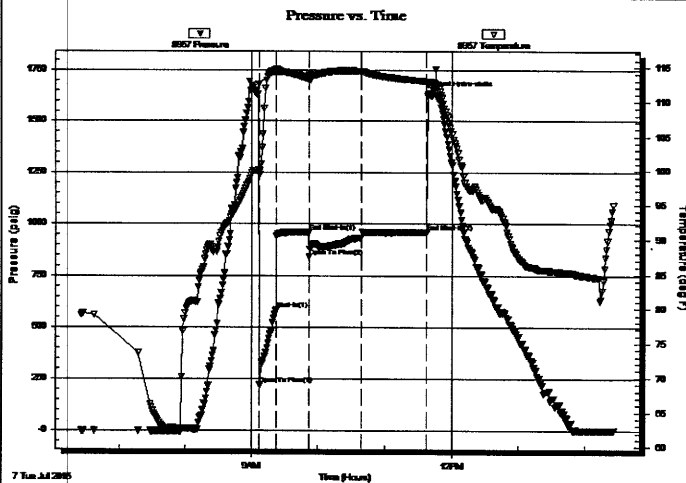
End Time: **14:26:14**

Last Calib.: **2015.07.07**

Time On Btm: **2015.07.07 @ 09:06:45**

Time Off Btm: **2015.07.07 @ 11:39:15**

TEST COMMENT: **F-BOB in 1min**
ISI-No blow
FF-BOB in 3 1/2min
FSI-surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.53	100.10	Initial Hydro-static
1	222.94	99.42	Open To Flow (1)
16	588.80	114.65	Shut-In(1)
45	960.66	113.33	End Shut-In(1)
46	840.84	113.25	Open To Flow (2)
93	934.72	114.47	Shut-In(2)
151	961.26	112.96	End Shut-In(2)
153	1627.81	112.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	SOCW 5%O 95%W	1.77
185.00	SOCW 10%O 90%W	2.18
370.00	OCW 20%O 80%W	5.19
370.00	SGMOCW 5%G 30%O 60%W 5%M	5.19
185.00	SGMOCW 5%G 30%O 45%W 20%M	2.60
340.00	SGMMCO 5%G 40%O 35%W 20%M	4.77

* Recovery from multiple tests

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. 1432

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-2-15	22	11	18	Ellis	KS		4:15 PM

Location *Hays N to 1/2 S of River, En 2*

Lease	Well No.	Owner	
<i>Henderson</i>	<i>7-8</i>	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	
<i>Discovery 2</i>	<i>Surface</i>	<i>Blake Exploration</i>	
Hole Size	T.D.	Street	
<i>12 1/4</i>	<i>227</i>		
Csg.	Depth	City	
<i>8 5/8</i>	<i>227</i>	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered <i>150 sx 80/20, 3% cc, 2% gel</i>	
Cement Left in Csg.	Shoe Joint		
	<i>20</i>		
Meas Line	Displace		
	<i>13</i>		

EQUIPMENT

Pumptrk	No.	Cementer	Common
<i>20</i>		<i>Nick</i>	<i>120</i>
Bulktrk	No.	Driver	Poz. Mix
<i>9</i>		<i>Doug</i>	<i>30</i>
Bulktrk	No.	Driver	Gel.
<i>Pu</i>		<i>Travis</i>	<i>3</i>
			Calcium
			<i>6</i>

JOB SERVICES & REMARKS

Remarks:	Hulls
<i>Cement did circulate</i>	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
	Handling <i>159</i>
	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge *Surface*

Mileage *18*

Tax
Discount
Total Charge

X Signature

[Handwritten Signature]

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. 1008

Date	7-8-15	Sec.	22	Twp.	11	Range	18	County	Ellis	State	KS	On Location		Finish	2:00 AM
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Location Hays N 1/2 S of River E into

Lease	Henderson	Well No.	7-8	Owner	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	Discovery #2				
Type Job	Bottom Stage				

Hole Size	7 7/8	T.D.	3483	Charge To	Blake Exploration
Csg.	5 1/2	Depth	3478	Street	

Tbg. Size		Depth		City	State
Tool	DV	Depth	1210'	The above was done to satisfaction and supervision of owner agent or contractor.	

Cement Left in Csg.	13.29	Shoe Joint	13.29	Cement Amount Ordered	150 sq com 10% Salt 44 H ₂ O
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Meas Line		Displace	8 2 3/4 bbl		5 1/2 Gilsonite
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EQUIPMENT

Pumptrk	20	No.	Cementer		Common	150
			Helper	Nick	Poz. Mix	
Bulktrk	14	No.	Driver	David	Gel.	
			Driver	Travis		
Bulktrk	14	No.	Driver	Brett	Calcium	
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	13
Mouse Hole		Flowseal	37#
Centralizers	- 3, 6, 8, 9 + 57	Kol-Seal	750#
Baskets	- 2, 4, 10 + 54	Mud CLR 48	- 500 Gal
DV	run J+ 56 @ 1210'	CFL-117 or CD110 CAF 38	

Sand	
Handling	170
Mileage	5 1/2

FLOAT EQUIPMENT

Run 3478 of 5 1/2 & Est cir		Guide Shoe	
Drop Bull + Set Tri-Plex		Centralizer	- 5
Circulate		Baskets	- 4
Mix Mud Flush		AFU Inserts	
Mix 150 sq down 5 1/2		Float Shoe	
Displace 8 2 3/4 bbl		Latch Down	- 1
Lift pressure @ 700 lbs		Tri-Plex	- 1
Landed Plug @ 1500 lbs		DV Tool	- 1
Opened DV Tool @ 500 lbs		Pumptrk Charge	prod string
Circulated 30 min		Mileage	18

Bottom stage

Signature		Tax	
		Discount	
		Total Charge	

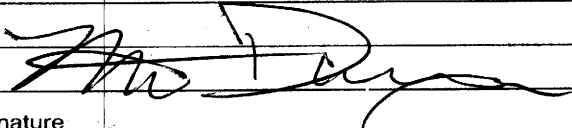
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1009

Date	7-8-15	Sec.	22	Twp.	11	Range	18	County	Ellis	State	KS	On Location		Finish	4:00 AM	
								Location								
								Hays N 1/2 S of River E into								
Lease	Henderson			Well No.	7-8			Owner								
Contractor	Discovery #2			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.				
Type Job	Top Stage			Charge To								Blake Exploration				
Hole Size	7 7/8			T.D.	3483'			Street								
Csg.	5 1/2			Depth	3478'			City								
Tbg. Size				Depth				State								
Tool	DV			Depth	1210'			The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered								
									250 80/20 QMDC 1/4 Flt							
Meas Line				Displace	29 bbl											
EQUIPMENT								Common								
Pumptrk	20	No.	Cementer	Nick			250 80/20 Qmdc									
			Helper				Poz. Mix									
Bulktrk	21	No.	Driver	Travis			Gel.									
			Driver				Calcium									
Bulktrk	Pu	No.	Driver	Brett			Hulls									
			Driver				Salt									
JOB SERVICES & REMARKS								Flowseal 62#								
Remarks:							Kol-Seal									
Rat Hole	- 30'sx						Mud CLR 48									
Mouse Hole	- 15'sx						CFL-117 or CD110 CAF 38									
Centralizers							Sand									
Baskets							Handling 250									
DV	 @ 1210'						Mileage									
									5 1/2 FLOAT EQUIPMENT							
									Guide Shoe							
									Centralizer -5							
									Baskets - 4							
									AFU Inserts							
									Float Shoe							
									Latch Down -1							
									Tri-Plex-1							
									DV Tool-1							
									Pumptrk Charge							
									prod string Top Stage							
									Mileage NC							
								Tax								
								Discount								
								Total Charge								
 X Signature																

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. 1432

Date	7-2-15	Sec.	22	Twp.	11	Range	18	County	Ellis	State	KS	On Location		Finish	4:15 PM
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Location *Hays N to 1/2 S of River, En 2*

Lease	<i>Henderson</i>	Well No.	<i>7-8</i>	Owner	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	<i>Discovery 2</i>	Type Job	<i>Surface</i>	Charge To	<i>Blake Exploration</i>
Hole Size	<i>12 1/4</i>	T.D.	<i>227</i>	Street	
Csg.	<i>8 5/8</i>	Depth	<i>227</i>	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered <i>150 sx 80/20, 3% cc, 2% gel</i>	
Cement Left in Csg.		Shoe Joint	<i>20</i>		
Meas Line		Displace	<i>13</i>		

EQUIPMENT

Pumptrk	<i>20</i>	No.		Cementer		Common	<i>120</i>
				Helper	<i>Nick</i>	Poz. Mix	<i>30</i>
Bulktrk	<i>9</i>	No.		Driver	<i>Doug</i>	Gel.	<i>3</i>
				Driver	<i>Travis</i>	Calcium	<i>6</i>

JOB SERVICES & REMARKS

Remarks:	<i>Cement did circulate</i>	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<i>159</i>
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge *Surface*

Mileage *18*

Tax	
Discount	
Total Charge	

X Signature

[Handwritten Signature]

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. 1008

Date	7-8-15	Sec.	22	Twp.	11	Range	18	County	Ellis	State	KS	On Location		Finish	2:00 AM
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Location Hays N 1/2 S of River E into

Lease	Henderson	Well No.	7-8	Owner	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	Discovery #2				
Type Job	Bottom Stage				

Hole Size	7 7/8	T.D.	3483	Charge To	Blake Exploration
Csg.	5 1/2	Depth	3478	Street	

Tbg. Size		Depth		City	State
Tool	DV	Depth	1210'	The above was done to satisfaction and supervision of owner agent or contractor.	

Cement Left in Csg.	13.29	Shoe Joint	13.29	Cement Amount Ordered	150 sq com 10% Salt 44 H ₂ O
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Meas Line		Displace	8 2 3/4 bbl		5 1/2 Gilsonite
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EQUIPMENT

Pumptrk	20	No.	Cementer		Common	150
			Helper	Nick	Poz. Mix	
Bulktrk	14	No.	Driver	David	Gel.	
			Driver	Travis		
Bulktrk	14	No.	Driver	Brett	Calcium	
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	13
Mouse Hole		Flowseal	37#
Centralizers	- 3, 6, 8, 9 + 57	Kol-Seal	750#
Baskets	- 2, 4, 10 + 54	Mud CLR 48	- 500 Gal
DV	at J+ 56 @ 1210'	CFL-117 or CD110 CAF 38	

Run	3478 of 5 1/2 + Est cir	Sand	
Drop	Bull + Set Tri-Plex	Handling	170
Circulate		Mileage	5 1/2

FLOAT EQUIPMENT

Mix	Mud Flush	Guide Shoe	
Mix	150 sq down 5 1/2	Centralizer	- 5
Displace	8 2 3/4 bbl	Baskets	- 4
Lift	pressure @ 700 lbs	AFU Inserts	
Landed	Play @ 1500 lbs	Float Shoe	
Opened	DV Tool @ 500 lbs	Latch Down	- 1
Circulated	30 min	Tri-Plex	- 1
		DV Tool	- 1
		Pumptrk Charge	prod string
		Mileage	18

Bottom stage

Signature		Tax	
		Discount	
		Total Charge	

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. 1009

Date	7-8-15	Sec.	22	Twp.	11	Range	18	County	Ellis	State	KS	On Location		Finish	4:00 AM
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Location *Hays N 1/2 S of River E into*

Lease	<i>Henderson</i>	Well No.	<i>7-8</i>	Owner	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	<i>Discovery #2</i>				
Type Job	<i>Top Stage</i>				
Hole Size	<i>7 7/8</i>	T.D.	<i>3483'</i>	Charge To	<i>Blake Exploration</i>
Csg.	<i>5 1/2</i>	Depth	<i>3478'</i>	Street	
Tbg. Size		Depth		City	State
Tool	<i>DV</i>	Depth	<i>1210'</i>	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	<i>250 80/20 QMDC 1/4 Flt</i>

Meas Line	Displace	<i>29 bbl</i>
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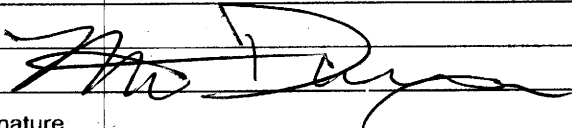
EQUIPMENT

Pumptrk	<i>20</i>	No.	Cementer	<i>Nick</i>	Common	<i>250 80/20 Qmdc</i>
			Helper		Poz. Mix	
Bulktrk	<i>21</i>	No.	Driver	<i>Travis</i>	Gel.	
			Driver		Calcium	
Bulktrk	<i>Pu</i>	No.	Driver	<i>Brett</i>		
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole - <i>30'sx</i>		Salt	
Mouse Hole - <i>15'sx</i>		Flowseal	<i>62#</i>
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
DV @ <i>1210'</i>		CFL-117 or CD110 CAF 38	
<i>Plugged Rat & Mouse hole</i>		Sand	
<i>Mixed 205 QMDC down 5 1/2</i>		Handling	<i>250</i>
<i>Displaced 29 bbl</i>		Mileage	<i>5 1/2</i>
<i>Lift pressure @ 2000 lbs</i>		Guide Shoe	
<i>Landed @ 2000 lbs</i>		Centralizer	<i>-5</i>
<i>Cement Circulated!!</i>		Baskets	<i>-4</i>
		AFU Inserts	
		Float Shoe	
		Latch Down	<i>-1</i>
		Tri-Plex	
		DV Tool	<i>-1</i>
		Pumptrk Charge	<i>prod string</i>
		Mileage	<i>NC</i>

FLOAT EQUIPMENT

 X Signature	Tax	
	Discount	
	Total Charge	

Top Stage