

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	CAROLYN 'A' 4-24
Doc ID	1636205

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Robert D. Hendrix

Petroleum Geologist

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY		Murfirin Drilling Company, Inc.	
LEASE	Carolin A #4-24	ELEVATIONS	KB 3349'
FIELD	UNKNOWN	DF	
LOCATION	500' fsl 8. 2090' fsl	GL	3344'
SEC	24 TWP 1S R6E 37W	COUNTY	Cheyenne
STATE	Kansas	MEASUREMENTS ARE ALL	From Kelly Bushing
CONTRACTOR	Murfirin Drilling Co. Inc. Bldg #110	RTD	3/11/2022
SPUD	3/11/2022	COMP	5190/2022
RTPD	5094'	LTD	5094'
MUD UP	3400'	TYPE MUD	Chemical
SAMPLES SAVED FROM	3610'	TO TD	PRODUCTION 15.2' @ 5088'
DRILLING TIME KEPT FROM	3610'	TO TD	SURFACE 133.88' at 350'
SAMPLES EXAMINED FROM	3610'	TO TD	
GEOLOGICAL SUPERVISION FROM		3492'	
GEOLOGIST ON WELL		Robert D. Hendrix	
<small>Digital Informational Computerized Records MicroSeismic, Wellbore Analysis</small>			
FORMATION TOPS		ELECTRIC LOG	
Neve	3256 (+93)	3723 (+93)	3252 (+93)
Foraker	3845 (-96)	3837 (-488)	
Topeka	4070 (-721)	4068 (-719)	
Oread	4199 (-850)	4196 (-847)	
Lansing	4280 (-931)	4279 (-930)	
BKC	4550 (-1201)	4548 (-1199)	
Charlotte Shale	4759 (-1407)	4757 (-1408)	
Mississippian	5002 (-1653)	4977 (-1628)	
			API# 15-023-21568

REMARKS:
 The decision was made to complete the well in order to further test the potential in several zones of interest.
 Thank You
 Robert Hendrix

RTD 5094'. DT. None. CT. 18 1/4 hrs. Ran 123hrs of 15.5# 5-1/2" prod csg set @ 5088'. HSI cmt w/ 615xxs (240HLD, 415H-Con). PD @ 9:45PM 3/20/22. HS circ. 20xxs. RR @ 1:45AM 3/21/22.

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
-------	-----------	--------------------	---------

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3200	Hydrocarbon Shoals		
3252 (+97)			Anhydrite
3291 (+58)			Base Anhydrite
3300		Shale: gray, green, red, soft silty	Geologist on location 3492' at 7:46 pm 3/14/2022 Bit Trip at 3492' to change from PDC to bitton.
3600		Shale: red, silty, sandy	
3700		Shale: gray, green, red, silty	
3723 (-374)		Limestone: tan to white, f-xln, v-chalky, oolitic, fossiliferous, no vis por Limestone: gray to tan, dense, sl pyritic, sl fossiliferous, vo vis por Shale: red, gray, black, silty Shale: red, silty, sandy Shale: red, gray, silty	Neve 8:00am, 3/15/2022
3791 (-442)		Shale: red, silty, sandy	Red Eagle
3800		Limestone: tan to brown, f-xln, chalky, dense, fossiliferous, no vis por Limestone: tan to white, f-xln, chalky, cherty, granular in part, fossiliferous, no vis por Shale: gray, soft, muddy Shale: gray, silty, silty	Foraker wt 8.8, vis, 62, lcm 5# Morgan Mud, Cade Lines
3837 (-488)		Limestone: tan, f-xln, sl chalky, oolitic in part, fossiliferous, 5% sample gd oolitic por, dark sat stain, frsf, no odor Limestone: tan to gray, f-xln, v-fossiliferous, 1% sample fr pp por, dark sat stain, prsfo, fr odor Shale: gray, green, red, black, blocky, silty Limestone: lt, gray, f-xln, fossiliferous, granular, no vis por Shale: gray, black, blocky Dolomite: tan, f-xln, granular, sl fossiliferous, pr interxn por Shale: gray, green, red, silty	
3900		Limestone: tan, f-xln, chalky, cherty, fossiliferous, no vis por, ns Shale: gray, green, red, black, silty Limestone: tan, f-xln, chalky, sl cherty, fossiliferous, no vis por Shale: red, gray, green, black	
3992 (-643)		Limestone: white, f-xln, chalky, oolitic in part, fossiliferous, no vis por Shale: red, gray, green, silty Limestone: tan to white, f-xln, sl chalky, sl cherty, fossiliferous, no vis por Shale: gray, green, red, silty	Stotler
4000		Limestone: white to lt gray, f-xln, sl chalky, v-fossiliferous, calcite replacement in part fr pp por, ns Shale: gray, green, red, silty Limestone: white, f-xln, sl chalky, fossiliferous, 1% sample scattered sl pp por, spotty black stain, nfo, no odor Shale: red, gray, green, silty Limestone: white to tan, f-xln, sl chalky, fossiliferous, 5% sample scattered sl pp por, spotty black stain, sl sfo, faint odor Shale: gray, green, red, silty Limestone: tan to gray, f-xln, sl chalky, fossiliferous, no vis por Shale: gray, green, red, silty	
4068 (-719)		Limestone: white to lt gray, f-xln, sl chalky, oolitic, fossiliferous, no vis por Limestone: white to tan, f-xln, micro oolitic, no vis por Limestone: white to lt gray, f-xln, fossiliferous, translucent calcite replacement, 4 pieces sl interxn por, black spotty stain, nfo, no odor Limestone: white, f-xln, chalky, fossiliferous, abundant calcite replacement, no vis por Shale: purple, red, gray, blocky, silty Shale: red, gray, green, biotitic, silty	Topeka
4100		Limestone: white, f-xln, sl chalky, oolitic, fossiliferous, gd oolitic por, no show Shale: purple, red, gray, silty	8:00am, 3/16/2022
4196 (-847)		Limestone: white to tan, f-xln, chalky, oolitic in part, fr interxn por, it to dark sat stain, slsfo, on break, no odor Limestone: white to tan, f-xln, pyritic, dense, fossiliferous, no vis por, ns Limestone: tan, f-xln, cherty, mostly dense, fossiliferous, 3 pieces fr interxn por, dark sat stain, frsfo, no odor Shale: gray, silty Limestone: tan, f-xln, dense, fossiliferous, no vis por, ns Shale: red, silty, black, gray, sandy Shale: red, gray, silty, silty	Oread wt 9.0, vis, 67, lcm 6# Morgan Mud, Cade Lines
4200		Limestone: white to tan, f-xln, chalky, oolitic in part, fr interxn por, it to dark sat stain, slsfo, on break, no odor Limestone: white to tan, f-xln, pyritic, dense, fossiliferous, no vis por, ns Limestone: tan, f-xln, cherty, mostly dense, fossiliferous, 3 pieces fr interxn por, dark sat stain, frsfo, no odor Shale: gray, silty Limestone: tan, f-xln, dense, fossiliferous, no vis por, ns Shale: red, silty, black, gray, sandy Shale: red, gray, silty, silty	Lansing
4279 (-930)		Limestone: white to an, f-xln, sl chalky, oolitic, fossiliferous, 5% sample fr interxn por, dark sat stain, slsfo, no odor Limestone: tan, micro-xln, sl chalky, no vis por Sandstone: brown stained, friable, vfn-gr, submd, well sorted, fr interxn por, gd dark sat stain, slow bleed frsfo on several pieces, abundant amt of dead oil, faint odor Shale: gray, green, red, blocky, silty Limestone: white, f-xln, sl chalky, fossiliferous, sl pyritic, sl interxn por, fr sat stain, slsfo, faint odor Shale: red, gray, green	
4300		Limestone: white, f-xln, sl chalky, fossiliferous, some pyrite, oolitic in part, 5% sample fr vug to oolitic por, prsfo (dark) with light oil sheen in part, gd dark sat stain, fair odor Limestone: white, f-xln, chalky, dense, sl fossiliferous, no vis por Shale: red, gray, green Limestone: white to tan, f-xln, fossiliferous, 5% sample fr fossiliferous por, dark sat stain, slsfo, fr odor Limestone: white to tan, f-xln, chalky, dense, sl fossiliferous, no vis por Shale: gray, green, red, hard, blocky	
4400		Limestone: white to tan, f-xln, chalky, sl fossiliferous, pyrite, 1% sample fr interxn por, it to dark sat stain, slsfo, no odor Limestone: white to tan, f-xln, chalky, dense, fossiliferous, no vis por Shale: gray, blocky, silty Shale: black, gray, silty, blocky	8:00am, 3/17/2022
4498 (-1149)		Limestone: white to tan, f-xln, sl chalky, fossiliferous, sl pyritic, no vis por, ns Shale: red, gray Limestone: tan, f-xln, v-fossiliferous, pr interxn por, ns Shale: red, gray, soft, silty Limestone: white to tan, f-xln, sl chalky, fossiliferous, sl amt pyrite, 1% sample fr pp to sl vug por, it to dark sat stain, prsfo, faint odor Shale: dark gray, black, blocky Shale: gray, red, green silty, blocky	Stark
4500		Limestone: white, f-xln, chalky, oolitic in part, fossiliferous, dense, no vis por, ns Shale: red, gray, green Limestone: tan, f-xln, sl chalky, sl fossiliferous, no vis por Shale: red, gray, green	Mound City (BKC) 4548 (-1199)
4548 (-1199)		Limestone: white to tan, f-xln, chalky, sl fossiliferous, pr interxn por, ns Shale: red, gray, silty, fr amt of biotite	Performed a 20 stand wiper trip to clean hole.
4600		Limestone: white to lt gray, f-xln, sl chalky, sl cherty, granular, no vis por Limestone: tan to lt gray, f-xln, sl chalky, fossiliferous, fair amt of calcite replacement, no vis por Shale: red, gray, green	
4670 (-1321)		Limestone: white, f-xln, sl chalky, fossiliferous, 3 pieces pr interxn por, dark streaky stain, nfo, no odor Limestone: tan to gray, f-xln, chalky, oolitic in part, sl fossiliferous, silty in lower part, no vis por, ns Shale: gray, green, soft, silty Limestone: white to tan, f-xln, chalky, oolitic in part, fossiliferous, no vis por, ns Limestone: white to tan, f-xln, chalky, oolitic in part, fossiliferous, sl cherty, no vis por Shale: black, dark to lt gray, green, red, silty, blocky Limestone: lt gray, f-xln, fossiliferous, chalky, sl cherty, no vis por Limestone: oolitic to brown, f-xln, sl cherty, fossiliferous, granular, no vis por Shale: black, lt to dark gray, sl red Limestone: tan to brown, f-xln, sl chalky, mostly dense, oolitic in part, no vis por, ns Shale: black, lt to dark gray, sl amt of red, silty, blocky Limestone: tan, f-xln, sl chalky, dense, fossiliferous, no vis por Shale: gray, red, silty Limestone: tan, f-xln, sl chalky, v-fossiliferous, no vis por Shale: red, gray, silty Limestone: tan to white, f-xln, dense, with an abundant amount of calcite replacement, no vis por Shale: red, gray, silty	Ft Scott 8:00am, 3/18/2022
4700		Limestone: white to tan, f-xln, fossiliferous, dense, no vis por Shale: dark gray, brick red, dark green, blocky Limestone: tan to brown, v-fxn, dense, fossiliferous, no vis por Shale: dark gray, brick red, dark green, blocky Sandstone: yellow to white, md-gr, sub md to md, med sorted, fr intergranular por, ns Shale: dark gray, green, red, fossil remnants	
4757 (-1408)		Limestone: tan, f-xln, sandy, fossiliferous, no vis por Sandstone: clear opaque to lt, md-fgr, sub md to md, poorly sorted, calcareous cement, pr intergranular por, ns Shale: gray, red, silty, sandy Sandstone: red to brown, md-gr, sub md to md, med sorted, argillaceous, no vis por, ns Shale: red, gray, silty, sl fossiliferous Sandstone: clear-red tint, lt, fr-md gr, sub md, med sorted, calcareous cement, pr intergranular por Shale: red, brown, gray, silty, sandy Shale: red, gray, silty, sandy Sandstone: clear, opaque to lt, md-fgr, sub md to md, poorly sorted, calcareous cement, pr intergranular por, ns Shale: yellow, green, red, sandy, silty Sandstone: clear, lt, lg-fgr, sub md, poorly sorted, calcareous cement, fr intergranular por Shale: yellow, green, red, sandy, silty Limestone: tanto white, f-xln, dense, chalky, fossiliferous, no vis por Shale: gray, green, silty Shale: dark gray, red, olive green, black, silty sandy, blocky Sandstone: clear, lt, with extra coarse sandal grains in sample, friable, green biotitic, sub md, poorly sorted, sl amt of calcareous cement, fr intergranular por, ns	Oakley wt 9.2, vis, 54, lcm 7# Morgan Mud, Cade Lines
4800		Limestone: tan, f-xln, dense, chalky, cherty, pr scattered vug por Limestone: tan, f-xln, dense, chalky, cherty, pr scattered vug por Limestone: tan, f-xln, dense, chalky, cherty, pr scattered vug por Limestone: tan, f-xln, dense, chalky, oolitic, dense, no vis por, 2 pieces spotty dark stain, nfo, no odor	Mississippian 4977 (-1628)
4900		Dolomite: tan, gray, f-xln, sl chalky, cherty, granular in part, ns Dolomite: tan, lt brown, f-xln, sl chalky, sl cherty, granular, fr interxn por, ns Limestone: tan, f-xln, dense, sl fossiliferous, cherty, no vis por Limestone: tan to brown, f-xln, chalky, no vis por Limestone: tan, f-xln, dense, chalky, cherty, pr scattered vug por Limestone: tan, f-xln, dense, chalky, oolitic, dense, no vis por, 2 pieces spotty dark stain, nfo, no odor	E. Log Top Mississippian 5002 (-1653)
5000			
5094 (-1745)			RTD

MDCI
Carolyn 'A' #4-24
500' FSL 2090' FEL
Sec. 24-T1S-R37W
3349' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	3252	+97	-9	3256	+93	-13
B/Anhydrite	3291	+58	-12	3291	+58	-12
Neva	3723	-374	-6	3729	-380	-12
Red Eagle	3791	-442	-9	3796	-447	-14
Foraker	3837	-488	-7	3845	-496	-15
Stotler	3992	-643	-7	4000	-651	-15
Topeka	4068	-719	-9	4070	-721	-11
Oread	4196	-847	-8	4199	-850	-11
Lansing	4279	-930	-9	4281	-932	-11
Stark	4498	-1149	-12	4498	-1149	-12
Mound City	4548	-1199	-9	4549	-1200	-9
Ft Scott	4670	-1321	-12	4671	-1322	-13
Oakley	4757	-1408	-12	4756	-1407	-11
Mississippi	4977	-1628	-1	5003	-1654	-27
RTD	5094	-1745				
LTD				5094	-1745	



CEMENT TREATMENT REPORT

Customer: Murfin Drilling	Well: Carolyn A #4-24	Ticket: WP 2520
City, State: Oakley KS	County: Cheyenne KS	Date: 3/11/2022
Field Rep: Ricky	S-T-R: 21-1S-37W	Service: Surface

Downhole Information	
Hole Size:	12.25 In
Hole Depth:	350 ft
Casing Size:	8 5/8 in
Casing Depth:	350 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	21.0 bbbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	bbls / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	100.4 bbbls
Total Sacks:	400 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbls / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbbls
Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
456p			-	-	Arrived on location
506p				-	Safety meeting
516p				-	Rig up
1003p				-	Casing on bottom
1005p				-	Circulated mud to pit
1019p	3.0	150.0	2.0	2.0	Water ahead
1021p	4.0	350.0	100.4	102.4	Mixed cement 14.8 ppg
1049p	4.5	325.0	21.0	123.4	Begin displacement
1055p		200.0		123.4	Plug down
1057p				123.4	Wash up and rig down
1125p				123.4	Left location
					Circulate 5 bbls cement to pit

Crew	CREW		UNIT	SUMMARY			
	Cementer:	John		64	Average Rate	Average Pressure	Total Fluid
	Pump Operator:	Jose V		208	3.8 bpm	256 psi	123 bbbls
	Bulk #1:	Charlie		194-235			
Bulk #2:							



CEMENT TREATMENT REPORT

Customer: Murfin Drilling Co	Well: Carolyn A # 4-24	Ticket: WP-2555
City, State: Oakley KS	County: Cheyenne KS	Date: 3/20/2022
Field Rep: Troy	S-T-R: 24-1S-37W	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5094 ft
Casing Size:	5 1/2 in
Casing Depth:	5088.94 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	Float shoe
Tool Depth:	5088.94 ft
Displacement:	121.1 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	5093 ft
Annular Volume:	157.4 bbls
Excess:	
Total Slurry:	196.0 bbls
Total Sacks:	430 sx

Calculated Slurry - Tail	
Blend:	H-LD
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft ³ / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	5093 ft
Annular Volume:	157.3737 bbls
Excess:	
Total Slurry:	64.5 bbls
Total Sacks:	240 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
12:00p			-	-	Arrival
12:05p				-	Safety meeting
5:30p				-	Run float equipment
7:15p				-	Rig up pump and lines
7:35p				-	Drop ball
7:45p				-	Circulate hole for 1 hour with rig
8:45p	4.1	460.0	5.0	5.0	H2O ahead
8:47p	5.0	570.0	12.0	17.0	Mixed 500 gallons of super flush
8:51p	5.0	490.0	5.0	22.0	H2O behide
8:53p	7.0	800.0	196.0	218.0	Mixed 430 sks of H-Con @ 12 ppg @ 5088
8:55p	7.0	540.0	6.8	224.8	Mixed 15 sks of H-Con @ 12 ppg @ Rathole
9:30p	5.3	400.0	64.5		Mixed 240 sks of H-LD @ 14.8 ppg @
9:42p					Wash up pump and lines
9:45p					Drop plug
9:47p	6.6	700.0	121.1		Displace H2O
10:07p	2.8	2,630.0	120.5		Land plug @ 2630 p.s.i.
10:10p					Wash up pump and lines
10:15p					Rig down pump and lines
10:35p					Depart location
					Circulated 20 sks to pit

CREW		UNIT	SUMMARY		
Cementer:	Jesse J	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael R	230	5.4 bpm	824 psi	531 bbls
Bulk #1:	Christian	242			
Bulk #2:	Charles	527-250			