Confidentiality Requested: Yes No

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

1250071

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from  North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
GG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Plug Back Conv. to GSW Conv. to Producer	
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Onevertex Name
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date Recompletion Date	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:

	Page Two	1250071
Operator Name:	Lease Name:	Well #:
Sec TwpS. 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 (Attach Additional She	eets)	Yes No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	*	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING					
		Report all strings set-c	onductor, surface, inte	ermediate, production	on, 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 / SQL	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No, skip	o questions 2 an	d 3)
Does the volume of the tota	l base fluid of the hyd	raulic fracturing treatment ex	ceed 350,000 gallons'	? Yes	No (If No, skip	question 3)	
Was the hydraulic fracturing	treatment information	n submitted to the chemical o	lisclosure registry?	Yes	No (If No, fill o	out Page Three o	of the ACO-1)

Shots Per Foot	PE	Specify Footage	CORD - Bridge Plue of Each Interval Po	ugs Set/Typ erforated	)e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Size:	Se	t At:	Packe	r At:	Liner F		No	
Date of First, Resumed	Production, S	WD or ENHR.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:			METHOD	OF COMPLE	TION:		PRODUCTION IN	TERVAL:
Vented Solo	d Used	on Lease	Open Hole Other (Specify)	Perf.	Dually (Submit A	,	Commingled (Submit ACO-4)		

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

0.		REMIT TO				MAIN OFFICE
	DINSOLIDATED	onsolidated Oil Well Se Dept:970 P.O.Box 4346 Houston,TX 77210			620/431-921	P.O.Box884 Chanute,KS 66720 0,1-800/467-8676 Fax 620/431-0012
Invoice				Invoice#	802	350
Invoice Date:	11/30/14	Terms:	Net 30		Page	1
D & Z EXPLOR	ATION					
901 N. ELM S ST. ELMO IL USA			Cat	tle Tracks #3		
6188293274						
Part No	Description		Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper		1.000	1,085.0000	0.000	1,085.00
5406	Mileage Charge		30.000	4.2000	0.000	126.00
5402	Casing Footage		923.000	0.2300	100.000	0.00
5407	Min. Bulk Delivery Charge		0.500	368.0000	0.000	184.00
5502C	80 Vacuum Truck Cement		1.500	100.0000	0.000	150.00
1124	Poz Cement Mix		118.000	11.5000	30.000	949.90
1118B	Premium Gel / Bentonite		398.000	0.2200	30.000	61.29
1111	Sodium Chloride (Granulat	ed Salt)	248.000	0.3900	30.000	67.70
1110A	Kol Seal (50# BAG)		590.000	0.4600	30.000	189.98
4402	2 1/2 Rubber Plug		1.000	29.5000	0.000	29.50

Subtotal	3,599.47
Discounted Amount	756.09
SubTotal After Discount	2,843.38

Amount Due 3,735.33 If paid after 12/30/14

Tax:	95.76
Total:	2,939.13

\_\_\_\_\_\_

BARTLESVILLE, OK 918/338-0808

EL DORADO,KS 316/322-7022

EUREKA, KS 620/583-7554

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

( ° )	INSOLIDAT	INVOICH 8023		TICKET NUMI	Hawa, 15	674_ ely
20-431-9210 or		CEM WELL NAME & NUMBER	ENT SECTION	TOWNSHIP	RANGE	COUNT
	3392 /	Cilla Trade 12	NE 33	14	22	30
USTOMER		ATTIE HOLES # 5	100 30	SPIE REI STATE		and the second
D+ 7	Exporatio		TRUCK #	DRIVER	TRUCK#	DRIVER
AILING ADDRES			7-29	Casken	Jately	Maetic
	). Elus St	ATE ZIP CODE	Idele	Keilar		
CI FI			548	Dusticha	-	
St Cin		162458	Co Cots	KeiDot	WEIGHT 27/2	Hac
OB TYPE low	200		EPTH 9(00'	CASING SIZE &		cuc
ASING DEPTH		RILL PIPETUBING			OTHER	
		URRY VOL WATER	and the second	CEMENT LEFT IN		
	A ()	SPLACEMENT PSI MIX PSI		- · ·	4	200#
EMARKS: hol	d salely a	noting, astalished c	irculation,	nined (	a page a	POO TE
gel tollos	red by 10	6615 tree weater		ned /10.	Ske 70	SIDA
eneut.	2/276 gel	5% salt + 5#	Kaleal per	isk , a	ment to	where
listed pu	enp doan	pumped 2/2" rd	aler plud to	Casing TL	2 w/ 5.3	4665
tesh is a	for pressur	rek 6 800 PS1, 1	decsed pres	Surve , She	tin casir	g .
					( )	
				(),	X	
					R	
				$\left( \right)$	X	
ACCOUNT	QUANITY or	UNITS DESCRIPTIO	DN of SERVICES or PF			тота
CODE	QUANITY or		ON of SERVICES or PF			
CODE	1	PUMP CHARGE	DN of SERVICES or PF			1685;
CODE 5401 - 5400 -	1 30 mi					1685;
CODE 5401 - 5400 - 5402 -	1 30 m; 423'	PUMP CHARGE MILEAGE				1085; 126;0
CODE 5401 / 5400 / 5402 / 5402 /	1 30 m; 423' 1/2 m;	PUMP CHARGE MILEAGE				1085; 126; 
CODE 5401 - 5400 - 5402 -	1 30 m; 423'	PUMP CHARGE MILEAGE Casing foota				TOTAL 1085.0 126.0 1.84.0 (50.0
CODE 5401 / 5400 / 5402 / 5402 / 5502 /	1 30 m; 923' 1/2 m; 1.5 h	PUMP CHARGE MILEAGE Casing foota bow Mileage 5 80 Vac	ge			1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 /	1 30 mi 423' 1/2 mi 1.5 hr	PUMP CHARGE MILEAGE Casing foota S 80 Vac	ge			1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota S 80 Vac S 750 Popul				1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota S 80 Vac S 750 Popul	ge		1357.00	1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 / 11163 / 1111 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing Costa S 80 Vac S 750 Popula Preyning C Salt	ge		1357.00 87.56 96.72	1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 /	1 30 mi 423' 1/2 mi 1.5 hr 1.5 hr 118 st	PUMP CHARGE MILEAGE Casing foota S 80 Vac S 750 Popul	ge ix cen ent Sel		1357.00 87.56 96.72 271.40	1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 / 11163 / 1111 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing Costa S 80 Vac S 750 Popula Preyning C Salt	ge x cenent Se motor	iels	1357.00 87.56 96.72 271.40. 1812.68	1085; 126; 
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 / 11163 / 1111 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing Costa S 80 Vac S 750 Popula Preyning C Salt	ge x cenent Se motor	iels	1357.00 87.56 96.72 271.40	1085; 126; 126; 184; 150;
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1104 / 1110A /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota Solution Solution Premium C Salt Kolsac	ge ix cenent Se motor -31	iels	1357.00 87.56 96.72 271.40. 1812.68	1085; 126; 184; 184; 150;
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1124 / 11163 / 1111 /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing Costa S 80 Vac S 750 Popula Preyning C Salt	ge ix cenent Se motor -31	iels	1357.00 87.56 96.72 271.40. 1812.68	1085; 126; 184; 184; 150;
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1104 / 1110A /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota Solution Solution Premium C Salt Kolsac	ge ix cenent Se motor -31	iels	1357.00 87.56 96.72 271.40 1812.68 543.80	1085; 126; 184; 184; 150;
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1104 / 1110A /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota Solution Solution Premium C Salt Kolsac	ge ix cenent Se motor -31	iels	1357.00 87.56 96.72 271.40. 1812.68	1085; 126; 184; 184; 150;
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1104 / 1110A /	30 m; 923' 1/2 m; 1.5 hr 118 de 398 +	PUMP CHARGE MILEAGE Casing foota Solution Solution Premium C Salt Kolsac	ge ix cenent Se motor -31	iels stolotal	1357.00 87.56 96.72 271.40 1812.68 543.80 3523.04	1085. 126.0 184.0 184.0
CODE 5401 / 5400 / 5402 / 5402 / 5502 / 1104 / 1110A /	30 m; 423' 1/2 m; 1.5 hr 118 de 398 t	PUMP CHARGE MILEAGE Casing foota Solution Solution Premium C Salt Kolsac	ge ix cenent Se motor -31	iels	1357.00 87.56 96.72 271.40 1812.68 543.80 3523.04	1085;° 126;° 

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.

### LEKMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials. Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice d to On all invoices are payable within 30 days. Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any accore in COWS interest to pursue collection of any attorney. Tees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license foes required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

## SEBAICE CONDILIONS

Customer warrants that the well is to proper condition to receive the services, equipment, products and materials to be supplied by COVS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed

(a) COWS shall not be responsible for any claim, cause of action or demond (hereinarit): referred to as a "claim") for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from willful misconduct or gross negligence of COWS, including bu not limited to sub-surface damage and surface damage and surface damage and through the construction sub-surface damage and surface damage and through the surface damage and surface damage and surface damage and from sub-surface damage.

any damage, loss or result caused by the use of such tools. running and placement of such tools but will not be liable for furnish down hole tools and may supply supervision for the stuck in the well for any reason and by any cause. COWS may (iii) down hole tools being lost or left in the well, or becoming or flashing, plugged float shoe, annulus bridging or plugging, or cement or cement plug, including dehydration of cement slurry surface pressure and resulting failure to complete pumping of including the failure to displace plug to proper depth, (n) subcement or cement plugs on wells with loss of circulation, circulation, cement invasion, cement misplacement, pumping and (4) well damage or reservoir damage caused by (1) loss of connected with the use of radioactive material in the well hole: whatsoever, irrespective of cause, growing out of or in any way but not limited to, injury to the well), or any damages than employees of COWS, or damage to property (including, performed by COWS; (3) injury to or death of persons, other action in the nature thereof, arising from a service operation blowout: (2) damages as a result of a subsurface frespass, or an lisw a tolbia lisw off to loting control of the well and/or a well (1) reservoir less or damage, or property damage resulting from and indemnity and hold COWS harmless from any claum on: gross negligence of CWO. Castoner shall be responsible for (b) Unless a claim is the result of the sole willful misconduct of

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarance of the effectiveness of any COWS products, supplies or materials, or the results of any COWS freatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by off-ers, COWS is unable to guarantee the accuracy of any churi interpretation, research analysis, job reconnentiation or other data furnished by COWS. COWS' personnel will use their best judgement in interpreting it, but information and their best judgement in interpreting it, but (information and their best judgement in interpreting it, but date to COWS' gross negligence or willful misconduct in the responder of from the ace of such information except where date to COWS' gross negligence or willful misconduct in the presention or difficulting and the

preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type  $\Lambda$  & B packers, and Customer agrees that COWS is not an agent or dealer for the comparise who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## VAARRANTIES - LIMITATION OF LIABULITY

COWS warrante file to the products, supplies and materials, and that the same are tree from defects in workmanship and materials. THERE ARE NO OTHER WARRANTP OF PYRESS OR IMPLED, NOR ANY WARRANTV OF VEHCH EXTEVID REVOUD THOSE STATED IN 111E and Customer's exclusive remedy in any claim (whether in contract, fort, breach of warranty or otherwise,) prising out of the sale or use of any COWS' products, supplies, materials or estrices is expressly limited to the replacement of such services is expressly limited to the replacement of such or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any apecial, incidental, indirect, consequential or punitive damages.

Johnson County, KS Town Oilfield Service, Inc. Well: Cattle Track # 3 (913) 837-8400 Lease Owner:DZ Exploration

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## WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 14	Soil & Clay	14
10	Shale	24
6	Lime	30
6	Shale	36
15	Lime	51
9	Shale	60
8	Lime	68
9	Shale	77
25	Lime	102
18	Shale	120
19	Lime	139
11	Shale	150
18	Lime	168
26	Shale	194
19	Lime	213
12	Shale	225
8	Lime	233
21	Shale	254
9	Lime	263
4	Shale	267
6	Lime	273
34	Shale	307
1	Lime	308
13	Shale	321
24	Lime	345
11	Shale	356
21	Lime	377
3	Shale	380
3	Lime	383
4	Shale	387
8	Lime	395
178	Shale	573
3	Lime	576
4	Shale	580
6	Lime	586
27	Shale	613
3	Lime	616
124	Shale	740
5	Brown Sand	745
10	Sandy Shale	755

' Johnson County, KS Town Oilfield Service, Inc. Well: Cattle Track # 3 (913) 837-8400 Lease Owner:DZ Exploration

109	Shale	864
2	Broken Sand	866
5	White Sand	871
5	Oil Sand	876
2	Broken Sand	878
82	Shale	960 TD
	2 ····	

# Short Cuts

BBLS. (42 gal.) equals D<sup>2</sup>x.14xh D equals diameter in feet. h equals height in feet.

BARRELS PER DAY Multiply gals. per minute x 34.2

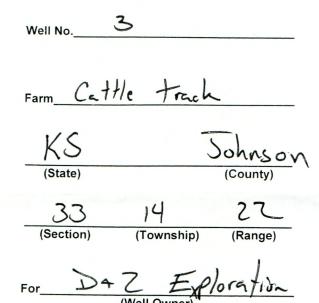
HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

## TO FIGURE PUMP DRIVES

\* D - Diameter of Pump Sheave \* d - Diameter of Engine Sheave SPM - Strokes per minute RPM - Engine Speed R - Gear Box Ratio \*C - Shaft Center Distance

D - RPMxd over SPMxR d - SPMxRxD over RPM SPM - RPMXD over RxD R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) +  $\frac{(D-d)^2}{4C}$ \* Need these to figure belt length WATTS TO FIGURE AMPS: VOLTS 746 WATTS equal 1 HP



Log Book

## Town Oilfield Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

Farm		County
State; V	Vell No.	
Elevation		
Commenced Spuding	11-24	20_14
Finished Drilling	11-24	20,4
Driller's Name	( )	
Driller's Name	Kenny Funn Cole Holor	
Tool Dresser's Name	Cole Hokon	~
Tool Dresser's Name		
Tool Dresser's Name		
Contractor's Name		
(Section)	(Township) (Ra	inge)
Distance from	line,	ft.
Distance from	line,	ft.

## CASING AND TUBING RECORD

10" Set	10" Pulled
7' Set 20	8" Pulled
6¼" Set	6¼" Pulled
4" Set	4" Pulled
27/ Set 923, 15	2" Pulled

Feet	In.	Feet	In.	Feet	In
	+		<u>↓</u>		
	+		+		
	+		+		
	┼──┤├-				

-1-

nickness of Strata	Formation	Total Depth	Remarks
14	soil r clay	14	
10	Shale	24	
6	lime	30	
6	shale	36	
15	lime		
9	shale	60	
8	line	68	
٩	shale	77	
25	Whene	102	
18	shale	120	
19	hime	139	
11	shale	150	
18	Fine	168	
26	Shele	194	
19	lone	213	
12	shake	225	
8	litre	233	
21	shake	254	
9	lone	263	
ч	shake	267	
00	the	273:	
34	Shake	307	
1	line	308	
13	shale	321	
24	line	345	
11	Shale	356	
2)	-2-	377	,

		377	
Thickness of Strata	Formation	Total Depth	Remarks
3	shele	350	
3	line	383	
4	shale	387	
8	line	395	Hertha
178	shake	573	
3	lime	576	
4	shake	580	
6	Hme	586	
27	shale	613	
3	the	616	
124	shape	740	
5	brown sand	745	Squissel
10	sandy Shake	755	
109	Shape	864	
2	broken sand	866	lite blech
5	white said	871	very life oil
5	oil seid	876	- good blend, good saturation
2	broken sa d	878	- life bleed, poor satisfier
82	shale	960	JD J
	·		
		)	
	-4-		-5-

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### NOTES:

960'TD 5 % hole 923.15 27/8 20' 7' surface 3 sacks cement Bonus Well

## **Rules of Thumb**

## CEMENTING ANNULUS

2" ID - 6¼"	1	Sack 5.8'
2″ ID – 8″	- 1	Sack
3" ID — 8"	- 1	Sack
4″ ID – 8″	- 1	Sack 4.0'

## CAPACITY

2″ – 1	BBL.	equals
2½''-1	BBL.	equals164'
3″ – 1	BBL.	equals115'
4″ – 1	BBL.	equals 64'
4 <sup>7</sup> / <sub>8</sub> "— 1	BBL.	equals 43'
6¼'-1	BBL.	equals 26'
8″ – 1	BBL.	equals 16'

WATER - CEMENT RATIO

5.5 gals. to 1 sack - 2½ hours to thicken slurry
7.7 gals. to 1 sack - 2 hours

to thicken slurry

-12-