



Operator Name: Energy Operations Kansas, LP Lease Name: Copeland Well #: 2-10  
 Sec. 10 Twp. 29 S. R. 30  East  West County: Gray

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

ISAT, SDL/DSN, MICROLOG, ACRT

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Chase Group	2674	KB
Council Grove	3022	
Neva	3175	
Topeka	3768	
Lansing Group	4258	
Morrow	5069	
St. Genevieve	5380	
St. Louis	5504	

CASING RECORD <input checked="" 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
Surface	12 1/4	9 5/8	36	1710	ACON	470	3% ccl
Production	8 3/4	5 1/2	15.5	5622	50/50 poz	1455	10% SALT

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type. Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	5286-5396, 5300-5306, 5310-5320, 5332-5340	3152 g gelled 15% fehcl + 100bs	5286-5340
CIBP	4808	2 sks cement	4808
3	4688-4698	none	

TUBING RECORD		Size	Set At	Packer At	Liner Run
				n/a	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method			
SI		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
				n/a	

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) SI WOO

Production Interval

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Sold To #: 347742	Ship To #: 2520847	Quote #:	Sales Order #: 4651084
Customer: ENERGY OPERATION KANSAS LP		Customer Rep: ENER. OP OF KS, MILO	
Well Name: COPELAND	Well #: 2-10	API/UWI #:	
Field:	City (SAP): UNKNOWN	County/Parish: Gray	State: Kansas
Contractor: WARRICK	Rig/Platform Name/Num: 118		
Job Purpose: Cement Multiple Stages			
Well Type: Exploratory / Wildcat		Job Type: Cement Multiple Stages	
Sales Person: HESTON, MYRON	Srvc Supervisor: SMITH, BOBBY	MBU ID Emp #: 106036	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARCHULETA, MIGUEL A	12	226381	ARNETT, JAMES Ray	14	226567	Arnold, Tobin	12	tw
CHAVEZ, ERIK Adrain	6	324693	SMITH, BOBBY Wayne	14	106036			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	26 - Sep - 2006	04:00	CST
Form Type			BHST	Job Started	26 - Sep - 2006	07:30	CST
Job depth MD	5622. ft		Job Depth TVD	5622. ft	Job Completed	26 - Sep - 2006	16:51
Water Depth			Wk Ht Above Floor	3. ft	Departed Loc	26 - Sep - 2006	18:00
Perforation Depth (MD)	From		To				

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8-3/4" Open Hole				8.75				1800.	5622.		
5-1/2" Production Casing	Used		5.5	4.95	15.5				5622.		
Multiple Stage Cementer	Used							3898.	3898.		
9-5/8" Surface Casing	Used		9.625	8.921	36.				1800.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

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Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH	MUD FLUSH - ZI - SBM (13383)		bbl	8.4	.0	.0	.0	
	990 gal/Mgal	FRESH WATER							
	1 gal/bbl	FDP-C694L-03, 5 GAL PAIL (101424388)							
2	Stage 1 Cement	POZ PREMIUM PLUS 50/50 - SBM (14239)		sacks	13.5	1.65	7.09		7.09
	10 %	SALT, BULK (100003695)							
	10 %	CAL-SEAL 60, BULK (100064022)							
	6 lbm	GILSONITE, BULK (100003700)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	0.5 %	D-AIR 3000 (101007446)							
	0.5 lbm	FLOCELE - 3/8, 25 LB SK (100005049)							
	7.087 Gal	FRESH WATER							
3	MUD FLUSH	MUD FLUSH - ZI - SBM (13383)		bbl	8.4	.0	.0	.0	
	1 gal/bbl	FDP-C694L-03, 5 GAL PAIL (101424388)							
	990 gal/Mgal	FRESH WATER							
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Stage 2 Cement	POZ PREMIUM PLUS 50/50 - SBM (14239)		sacks	13.5	1.63	6.92		6.92
	10 %	SALT, BULK (100003695)							
	10 %	CAL-SEAL 60, BULK (100064022)							
	6 lbm	GILSONITE, BULK (100003700)							
	0.5 %	HALAD(R)-322, 50 LB (100003646)							
	0.5 %	D-AIR 3000 (101007446)							
	0.5 lbm	FLOCELE - 3/8, 25 LB SK (100005049)							
	6.919 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left in Pipe	Amount	40 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

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<b>Sold To #:</b> 347742	<b>Ship To #:</b> 2520847	<b>Quote #:</b>	<b>Sales Order #:</b> 4651084
<b>Customer:</b> ENERGY OPERATION KANSAS LP		<b>Customer Rep:</b> ENER. OP OF KS, MILO	
<b>Well Name:</b> COPELAND		<b>Well #:</b> 2-10	<b>API/UWI #:</b>
<b>Field:</b>	<b>City (SAP):</b> UNKNOWN	<b>County/Parish:</b> Gray	<b>State:</b> Kansas
<b>Legal Description:</b>			
<b>Lat:</b>		<b>Long:</b>	
<b>Contractor:</b> WARRICK		<b>Rig/Platform Name/Num:</b> 118	
<b>Job Purpose:</b> Cement Multiple Stages			<b>Ticket Amount:</b>
<b>Well Type:</b> Exploratory / Wildcat		<b>Job Type:</b> Cement Multiple Stages	
<b>Sales Person:</b> HESTON, MYRON		<b>Srvc Supervisor:</b> SMITH, BOBBY	<b>MBU ID Emp #:</b> 106036

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/26/2006 01:00							
Depart Yard Safety Meeting	09/26/2006 03:00							
Arrive at Location from Service Center	09/26/2006 04:00							
Assessment Of Location Safety Meeting	09/26/2006 04:00							casing on bottom and rig is circulating
Rig-Up Equipment	09/26/2006 04:00							
Other	09/26/2006 06:30							bulk truck on location
Rig-Up Equipment	09/26/2006 06:30							rig up bulk truck
Safety Meeting	09/26/2006 07:00							location safety meeting
Rig-Up Equipment	09/26/2006 07:15							on drill floor
Start Job	09/26/2006 07:30							
Pump Spacer 1	09/26/2006 07:34		5	12			200.0	10 bbls mud flush and 2 bbls of water
Pump 1st Stage Lead Slurry	09/26/2006 07:38		6	151.5				515 sk @ 13.5 #
Clean Lines	09/26/2006 08:06							
Load Bottom Plug	09/26/2006 08:10							
Drop Bottom Plug	09/26/2006 08:11							
Pump Displacement	09/26/2006 08:12		6	40			50.0	water
Pump Displacement	09/26/2006 08:20		6	91.5			200.0	mud

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	09/26/2006 08:39		2	131.5		700.0	1400. 0	float held
Other	09/26/2006 08:40							drop the bomb
Load Top Plug	09/26/2006 08:41							
Open MSC	09/26/2006 09:10					.0	1200. 0	
Circulate Well	09/26/2006 09:15							rig
End Job	09/26/2006 09:15							
Safety Meeting - Pre Job	09/26/2006 15:20							
Start Job	09/26/2006 15:28							2nd stage
Pressure Test	09/26/2006 15:29						3900. 0	kick outs 3000
Pump Spacer 1	09/26/2006 15:31		5	12			250.0	10 bbls of mud flush and 2 bbls of water
Pump 2nd Stage Lead Slurry	09/26/2006 15:34		6	276			300.0	940 sk @ 13.5 #
Clean Lines	09/26/2006 16:23							
Pump Displacement	09/26/2006 16:27		6	0			50.0	
Drop Plug	09/26/2006 16:27							
Bump Plug	09/26/2006 16:45		2	93		800.0	1800. 0	float held
Close MSC	09/26/2006 16:47					.0	3000. 0	looks good
End Job	09/26/2006 16:51							
Post-Job Safety Meeting (Pre Rig-Down)	09/26/2006 16:55							
Rig-Down Equipment	09/26/2006 17:00							
Depart Location for Service Center or Other Site	09/26/2006 18:00							

Sold To #: 347742

Ship To #: 2520847

Quote #:

Sales Order #:

4651084

SUMMIT Version: 7.10.386

Saturday, September 30, 2006 11:17:00



**FIELD ORDER** 12882

Subject to Correction

Date <b>9-10-06</b>	Customer ID	Lease <b>Copeland</b>	Well # <b>2-10</b>	Legal <b>10-295-30W</b>
Energy Operations of Oklahoma		County <b>Gray</b>	State <b>KS</b>	Station <b>Liberal</b>
C H A R G E	Depth <b>1713</b>	Formation		Shoe Joint <b>43</b>
	Casing <b>9 5/8"</b>	Casing Depth	TD	Job Type <b>9 5/8" Surface (NW)</b>
	Customer Representative <b>Pat Smith</b>			Treater <b>Kirby Harper</b>

AFE Number \_\_\_\_\_ PO Number \_\_\_\_\_  
 Materials Received by **X** *Signed below*

Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
L	D100	140 SK	Common		
L	D101	310 SK	A Con Blend		
L	C310	1178 lb	Calcium Chloride		
L	C194	111 lb	Cellflake		
L	F146	1 EA	Top Rubber Cement Plug 9 5/8"		
L	E100	186 MI	heavy Vehicle Mileage		
L	E107	470 SK	Cement Service Charge		
L	E104	1373 TM	Bulk delivery		
L	E101	124 MI	Pickup Mileage		
L	R204	1 EA	Casing Cement Pump, 1501-2000		
L	R1701	1 EA	Cement head Rental		
L	R402	9 HR	Cement Pump Additional hrs. on location		
<i>D. J. [Signature]</i>					
Discounted Total					
Plus Tax					
					14,790. <sup>29</sup>

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Customer <i>Energy Operations of Oklahoma</i>	Lease No.	Date <i>9-11-06</i>
Lease <i>Copeland</i>	Well # <i>2-10</i>	
Field Order # <i>12882</i>	Station <i>Liberal</i>	Casing <i>5 7/8" (NW)</i>
Type Job <i>5 7/8" Surface</i>	Depth <i>1713</i>	County <i>Gray</i>
	Formation	State <i>KS</i>
		Legal Description <i>10-295-30W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid <i>310 SK A Con 3% CC - 1/4" Cellflake</i>	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad <i>11.4 PPG - 3.06 ft<sup>3</sup></i>	Max <i>- 19.2 Gal</i>		5 Min.	
Volume	Volume	From	To	Pad <i>160 SK Class A - 2% CC - 1/4" Cellflake</i>	Min		10 Min.	
Max Press	Max Press	From	To	Frac <i>15 PPG - 1.33 ft<sup>3</sup></i>	Avg <i>- 8.34 Gal</i>		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush <i>Water</i>	Gas Volume		Total Load	

Customer Representative <i>Pat Smith</i>	Station Manager <i>Jerry Bennett</i>	Treater <i>Kirby Harper</i>
Service Units <i>126 227 344 502 338 575</i>		
Driver Names <i>Kirby Harper Tony Holman Sam Hoop Eric M. Hicks</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1600 (9-10-06)</i>					<i>On Location - Spot &amp; Rig up</i>
<i>2230</i>					<i>Casing hung up - Crew Released</i>
<i>1830</i>					<i>On Location (9-11-06)</i>
<i>2300</i>					<i>Casing on bottom - break Circulation</i>
<i>2332</i>	<i>100</i>		<i>169</i>	<i>4</i>	<i>Mix 310 SK A Con @ 11.4#</i>
<i>0021</i>	<i>100</i>		<i>38</i>	<i>3</i>	<i>Mix 160 SK Class A @ 15#</i>
<i>0037</i>					<i>Shut down - drop top plug</i>
<i>0042</i>	<i>100</i>		<i>0</i>		<i>Displace with 129 bbl of water</i>
<i>0114</i>	<i>500</i>		<i>119</i>	<i>2</i>	<i>Slow Rate</i>
<i>0120</i>	<i>500-1000</i>		<i>129</i>		<i>Bump Plug</i>
<i>0121</i>	<i>1000-0</i>		<i>129</i>		<i>Release Pressure - Float Held</i>
					<i>Circulate cement to the pt</i>
					<i>Job Complete</i>

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