

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
October 2008  
Form Must Be Typed

**CONFIDENTIAL**

**ORIGINAL**

11/16/11

OPERATOR: License # 5254  
Name: MIDCO Exploration, Inc.  
Address 1: 414 Plaza Drive, Suite 204  
Address 2: \_\_\_\_\_  
City: Westmont State: IL Zip: 60559 + 1265  
Contact Person: Earl J. Joyce, Jr.  
Phone: (630) 655-2198  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc. CONFIDENTIAL  
Wellsite Geologist: N/A NOV 16 2009  
Purchaser: \_\_\_\_\_  
Designate Type of Completion: KOC  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, etc.)

API No. 15 - 025-21481-0000  
Spot Description: \_\_\_\_\_  
SE NW SE NW Sec. 18 Twp. 33 S. R. 25  East  West  
906 903' Feet from  North /  South Line of Section  
1678 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Clark  
Lease Name: Theis Well #: 2-18  
Field Name: \_\_\_\_\_  
Producing Formation: Viola  
Elevation: Ground: 2094' Kelly Bushing: 2106'  
Total Depth: 775 775 Plug Back Total Depth: 6850'  
Amount of Surface Pipe Set and Cemented at: 880  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

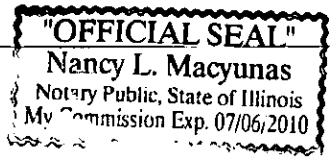
If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr.  Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled  Docket No.: \_\_\_\_\_  
 Dual Completion  Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No.: \_\_\_\_\_  
7/23/09 8/2/09 9/4/09  
Spud Date or  Date Reached TD  Completion Date or  Recompletion Date

Drilling Fluid Management Plan AH INS 121009  
(Data must be collected from the Reserve Pit)  
Chloride content: 31,000 ppm Fluid volume: 600 bbls  
Dewatering method used: vacuum and haul all available fluids  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Bulldog Disposal, Inc.  
Lease Name: \_\_\_\_\_ License No.: 225070  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: Harper Co., OK Docket No.: \_\_\_\_\_

*Handwritten note:*  
Flow  
open w/  
oper. on  
11/20/09

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.  
Signature: \_\_\_\_\_  
Title: Vice-President Date: 11/16/2009  
Subscribed and sworn to before me this 16th day of November  
20 09  
Notary Public: Nancy L. Macyunas  
Date Commission Expires: \_\_\_\_\_



**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

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Operator Name: MIDCO Exploration, Inc. Lease Name: Theis Well #: 2-18  
 Sec. 18 Twp. 33 S. R. 25  East  West County: Clark

**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:  
 Cement Bond Log, Borehole Compensated Sonic Log, Dual Induction Log, Compensated Porosity Log, Microresistivity Log

Name	Top	Datum
Heebner Shale	4206	-2099
Toronto	4224	-2117
Douglas	4274	-2167
Lansing	4379	-2272
B/KC	4965	-2858
Marmaton	4988	-2881
Cherokee	5154	-3047
Chester	5414	-3307
St. Gen	5678	-3571
Arbuckle	6812	-4705
Viola	7164	-5057

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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
Conductor		20"		80'			
Surface	12 1/4"	8 5/8"	24#	880'	Class A	465 & 250	
Production	7 7/8"	4 1/2"		7100'		245	10% salt; 10% cal-ecc; 8" Holes

Rec'd. # 0467436

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	6860-6900	common	125	

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
2	6814-17		
2	6826-.33 CIBP 6850		
2	6853-57	500 gallons 12 1/2% INSA	

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TUBING RECORD:	Size: 2 3/8"	Set At: 6725	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 9/5/09	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. 175	Gas Mcf 125	Water Bbls. 50	Gas-Oil Ratio

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: _____
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Halliburton Energy Services, Inc.

**Sales Order Number: 6855719** **Sales Order Date: August 24, 2009**

**SOLD TO:**  
 MIDCO EXPLORATION INC.  
 414 PLAZA DRIVE, SUITE 204  
 WESTMONT IL 60559  
 USA

**Rig Name:**  
**Well/Rig Name:** MIDCO EXPL THEIS 2-18,CLARK  
**Company Code:** 1100  
**Customer P.O. No.:** NA  
**Shipping Point:** Burns Flat, OK, USA  
**Sales Office:** Mid-Continent BD  
**Well Type:** Gas  
**Well Category:** Development  
**Service Location:** 0031  
**Payment Terms:** Net 20 days from Invoice date  
**Ticket Type:** Services  
**Order Type:** ZOH

**SHIP TO:**  
 MIDCO EXPL THEIS 2-18,CLARK  
 THEIS 2-18  
 SEC 18  
 ENGLEWOOD KS 67840  
 USA

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Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
14118	CMT SQUEEZE HOLE IN CASING JP080	1.00	JOB					
2	MILEAGE FOR CEMENTING CREW,ZI 000-119 Number of Units	140.000 1	MI unit		5.76	806.40	669.31-	137.09
1	ZI-MILEAGE FROM NEAREST HES 000-117 Number of Units	140.000 1	MI unit		9.79	1,370.60	1,137.60-	233.00
16097	SQUEEZE PUMPING CHARGE,ZI 009-134 OPEN HOLE SQUEEZE THRU PERF,0-4 HRS,ZI DEPTH FEET/METERS (FT/M)	1.000 6,860	EA FT		7,494.00	7,494.00	6,220.02-	1,273.98
75234	OPEN HOLE SQUEEZE THRU OPEN HOLE SQUEEZE THRU PERF,ADD HR ZI HOURS	1.000 2.00	EA hr		927.00	1,854.00	1,538.82-	315.18
142	AXIAL FLOW MIXER,W/O 046-070 NUMBER OF JOBS	1.000 1	EA Job		1,140.00	1,140.00	946.20-	193.80
132	PORT. DAS W/CEMWIN:ACQUIRE 045-050 NUMBER OF DAYS	1.000 1	JOB Days		1,649.00	1,649.00	1,368.67-	280.33

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# HALLIBURTON

Halliburton Energy Services, Inc.

**Sales Order Number: 6855719**

**Sales Order Date: August 24, 2009**

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
452986	HALCEM (TM) SYSTEM	100.00	SK		43.02	4,302.00	3,570.66-	731.34
101509387	CALCIUM CHLORIDE, PELLET CHEM, CALCIUM CHLORIDE, PELLET, 50 LB	3.000	SK		146.75	440.25	365.41-	74.84
76400	ZI MILEAGE,CMT MTLs DEL/RET 500-306 MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN NUMBER OF TONS	70.000 14.25	MI ton		3.35	3,341.63	2,773.55-	568.08
3965	HANDLE&DUMP SVC CHRg, 500-207 NUMBER OF EACH	305.000 1	CF each		5.49	1,674.45	1,389.79-	284.66
<b>SALES ORDER AMOUNT</b>						<b>24,072.33</b>	<b>19,980.03-</b>	<b>4,092.30</b>
<b>SALES ORDER TOTAL</b>						<b>24,072.33</b>	<b>19,980.03-</b>	<b>4,092.30</b>
Sales Tax - State								42.73
Total Weight: 9,551.50 LB								4,135.03
								US Dollars

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INVOICE INSTRUCTIONS:

Operator Name: \_\_\_\_\_ Halliburton Approval: X  
Customer Agent: \_\_\_\_\_ Customer Signature: X

The Road to Excellence Starts with Safety

Sold To #: 317869	Ship To #: 2736228	Quote #:	Sales Order #: 6855719
Customer: MIDCO EXPLORATION INC.		Customer Rep: Mayfield, David	
Well Name: Theis	Well #: 2-18	API/UWI #:	
Field:	City (SAP): ENGLEWOOD	County/Parish: Clark	State: Kansas
Legal Description: Section 19 Township 33S Range 25W			
Contractor: WORKOVER		Rig/Platform Name/Num: 0	
Job Purpose: Squeeze Hole in Casing			
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: CRAWFORD, ROBERT		Srvc Supervisor: BRINKMAN, BENNETT	MBU ID Emp #: 414024

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRINKMAN, BENNETT Wade	6	414024	CALIP, SIDNEY Russell	6	459042	TIRRELL, MICHAEL Edward	6	429195

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
08-24-2009	6	5						
TOTAL			Total is the sum of each column separately					

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Job NOV 1 6 2009

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	24 - Aug - 2009	09:30	CST
Form Type		BHST	Job Started	24 - Aug - 2009	12:15	CST
Job depth MD	6860. ft	Job Depth TVD	Job Completed	24 - Aug - 2009	14:10	CST
Water Depth		Wk Ht Above Floor	Departed Loc	24 - Aug - 2009	17:15	CST
Perforation Depth (MD)	From 6,860.00 ft	To 6,864.00 ft			18:00	CST

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
Packer	Unknown							6800.	6801.		
Production Casing	Unknown		4.5	4.	11.6				7070.		
Squeeze Tubing	Unknown		2.375	1.995	4.6				6800.		
Perforation Interval								6870.	6874.		
Perforation Interval								6860.	6864.		

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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 Retainer					Bottom Plug			
Float Collar										SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

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

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Premium	HALCEM (TM) SYSTEM (452986)	100	sacks	15.6	1.2	5.34		5.34
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	5.342 Gal	FRESH WATER							
2	Premium 2nd Squeeze (if necessary CC on the side)	HALCEM (TM) SYSTEM (452986)	0	sacks	15.6	1.2	5.34		5.34
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	5.342 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	27	Shut in: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min	CONFIDENTIAL	Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
NOV 6 2009 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 <i>David A. Mayfield</i>					

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Halliburton Energy Services, Inc.

**Sales Order Number: 6817457**

**Sales Order Date: August 03, 2009**

**SOLD TO:**

MIDCO EXPLORATION INC.  
414 PLAZA DRIVE, SUITE 204  
WESTMONT IL 60559  
USA

**Rig Name:**

**Well/Rig Name:** MIDCO EXPL THEIS 2-18,CLARK  
**Company Code:** 1100  
**Customer P.O. No.:** NA  
**Shipping Point:** Burns Flat, OK, USA  
**Sales Office:** Mid-Continent BD  
**Well Type:** Gas  
**Well Category:** Development  
**Service Location:** 0031  
**Payment Terms:** Net 20 days from Invoice date  
**Ticket Type:** Services  
**Order Type:** ZOH

**SHIP TO:**

MIDCO EXPL THEIS 2-18,CLARK  
THEIS 2-18  
SEC 18  
ENGLEWOOD KS 67840  
USA

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7523	CMT PRODUCTION CASING BOM JP035	1.00	JOB					
2	MILEAGE FOR CEMENTING CREW,ZI 000-119 Number of Units	40.000	unit		5.76	806.40	677.38-	129.02
1	ZI-MILEAGE FROM NEAREST HES 000-117 Number of Units	140.000	MI		9.79	1,370.60	1,151.30-	219.30
16091	ZI - PUMPING CHARGE 001-016 DEPTH FEET/METERS (FT/M)	1.000 7.070	EA FT		7,458.00	7,458.00	6,264.72-	1,193.28
142	AXIAL FLOW MIXER,W/O 046-070 NUMBER OF JOBS	1.000 1	EA Job		1,140.00	1,140.00	957.60-	182.40
132	PORT. DAS W/CEMWIN;ACQUIRE 045-050 NUMBER OF DAYS	1.000 1	JOB Days		1,649.00	1,649.00	1,385.16-	263.84
74038	PLUG CONTAINER RENTAL-1ST DAY DAYS OR FRACTION (MIN1)	1.000 1	EA Days	1,322.00	1,322.00	1,322.00	1,110.48-	211.52
528788	MUD FLUSH III	10.000	BBL		90.72	907.20	762.05-	145.15

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Sales Order Number: 6817457

Sales Order Date: August 03, 2009

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
452986	HALCEM (TM) SYSTEM	245.00	SK		43.02	10,539.90	8,853.52-	1,686.38
100003652	SALT,MORTON-PUREX-FINE	1,401.000	LB		0.44	616.44	517.81-	98.63
100064022	Chem- Calseal 60 (Bulk) 508-127516.00335 CHEMICAL - CAL SEAL - BULK	47.000	SK		48.82	2,294.54	1,927.41-	367.13
100003646	HALAD-322	139.000	LB		18.57	2,581.23	2,168.23-	413.00
100064233	KOL-SEAL 518.01174 CHEMICAL - KOL-SEAL LOST CIRCULATION ADDITIVE - BULK	1,225.000	LB		1.64	2,009.00	1,687.56-	321.44
452986	HALCEM (TM) SYSTEM	25.00	SK		43.02	1,075.50	903.42-	172.08
100003652	SALT,MORTON-PUREX-FINE	143.000	LB		0.44	62.92	52.85-	10.07
100064022	Chem- Calseal 60 (Bulk) 508-127516.00335 CHEMICAL - CAL SEAL - BULK	5.000	SK		48.82	244.10	205.04-	39.06
100003646	HALAD-322	15.000	LB		18.57	278.55	233.98-	44.57
100064233	KOL-SEAL 518.01174 CHEMICAL - KOL-SEAL LOST CIRCULATION ADDITIVE - BULK	125.000	LB		1.64	205.00	172.20-	32.80
100001585	KCL POTASSIUM CHLORIDE	767.000	LB		2.27	1,741.09	1,462.52-	278.57
76400	ZI MILEAGE,CMT MTLs DEL/RET 500-306 MILEAGE,CMTG MTLs DEL/RET PER/TON MI,MIN NUMBER OF TONS	70.000	MI		3.35	3,721.52	3,126.08-	595.44
		15.87	ton					
3965	HANDLE&DUMP SVC CHRg, 500-207 NUMBER OF EACH	378.000	CF		5.49	2,075.22	1,743.18-	332.04
		1	each					
100004722	SHOE,GID,4-1/2 8RD SHOE,GUIDE, 4-1/2 8RD	1.000	EA		299.00	299.00	206.31-	92.69
100004364	BAFFLE ASSY - 4-1/2 8RD	1.000	EA		262.00	262.00	180.78-	81.22

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# HALLIBURTON

Halliburton Energy Services, Inc.

Sales Order Number: 6817457

Sales Order Date: August 03, 2009

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100013745	BAFFLE, CAST IRON, 4-1/2 STD LATCH DOWN PLUG PLUG ASSY - 3W LATCHDOWN - 4-593801.0373 PLUG ASSY - 3 WIPER LATCH-DOWN - 4-1/2 CSG	1.000	EA		561.00	561.00	387.09-	173.91
100004473	CENTRALIZER ASSY - API - 4-CENTRALIZER ASSEMBLY, API, 4 1/2 CASING X 7 7/8 HOLE, HINGED, WITH WELDED BOWS	10.000	EA		126.00	1,260.00	869.40-	390.60
100004491	CTRZR ASSY, TURBO, API, 4 1/2 40 806.60104 CENTRALIZER ASSY - TURBO - API - 4-1/2 CSG X 7-7/8 HOLE - HINGED - W/WELDED IMPERIAL BOWS AND FLUID DEFLECTOR FINS	5.000	EA		166.00	830.00	572.70-	257.30
100004595	BSKT, CEM, 4 1/2 CSG X 8 3/4 HOLE - UNIVERSAL BOW 808.70020 BASKET - CEMENT - 4-1/2 CSG X 8 3/4 HOLE - SLIP-ON - STEEL VANE - UNIVERSAL BOW	3.000	EA		390.00	1,170.00	807.30-	362.70
100004622	CLAMP - LIMIT - 4-1/2 - CLAMP, LIMIT, 4 1/2, HINGED, FRICTION GRIP, WITH DRAW BOLT	3.000	EA		44.20	132.60	91.49-	41.11
<b>SALES ORDER AMOUNT</b>						<b>46,612.81</b>	<b>38,477.56-</b>	<b>8,135.25</b>
<b>SALES ORDER TOTAL</b>						<b>46,612.81</b>	<b>38,477.56-</b>	<b>8,135.25</b>
Sales Tax - State								250.68
Total Weight: 34,705.71 LB								8,385.93
								US Dollars

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INVOICE INSTRUCTIONS:

Operator Name:  
Customer Agent:

Halliburton Approval: X  
Customer Signature: X

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 317869	Ship To #: 2736228	Quote #:	Sales Order #: 6817457
Customer: MIDCO EXPLORATION INC.		Customer Rep:	
Well Name: Theis	Well #: 2-18	API/UWI #:	
Field:	City (SAP): ENGLEWOOD	County/Parish: Clark	State: Kansas
Legal Description: Section 19 Township 33S Range 25W			
Contractor: DUKE	Rig/Platform Name/Num: 6		
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: CRAWFORD, ROBERT	Srvc Supervisor: UNDERWOOD, BILLY	MBU ID Emp #: 159068	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AKINS, BRIAN D	11	418484	Brittian, Lyle	11	450467	UNDERWOOD, BILLY Dale	11	159068

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10724589	70 mile	10744543	70 mile	10949721	70 mile	10951586	70 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8-3-09	11	1	CONFIDENTIAL					
TOTAL			Total is the sum of each column separately					

### Job

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### Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Date	Time	Time Zone
Form Type	BHST		Called Out	03 - Aug - 2009	08:30
Job depth MD	7070. ft	Job Depth TVD	On Location	03 - Aug - 2009	13:30
Water Depth	Wk Ht Above Floor	Job Started	03 - Aug - 2009	22:00	CST
Perforation Depth (MD) From	To	Job Completed	03 - Aug - 2009	23:15	CST
		Departed Loc	03 - Aug - 2009	23:55	CST

### 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
Production Casing Open Hole				7.875				885.	7700.		
Production Casing	Unknown		4.5	4.	11.6				7070.		
Surface Casing	Unknown		8.625	8.097	24.				885.		

### Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,4-1/2 8RD	1	EA		
BAFFLE ASSY - 4-1/2 8RD LATCHDOWN PLUG	1	EA		RECEIVED
PLUG ASSY - 3W LATCHDOWN - 4-1/2 IN	1	EA		
CENTRALIZER ASSY - API - 4-1/2 CSG X	10	EA		
CTRZR ASSY,TURBO,API,4 1/2 CSG X 7 7/8	5	EA		NOV 17 2009
BSKT,CEM,4 1/2 CSG X 6 1/4,8 3/4 H	3	EA		KCC WICHITA
CLAMP - LIMIT - 4-1/2 - HINGED -	3	EA		

### 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			

# HALLIBURTON

# Cementing Job Summary

### Miscellaneous Materials

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

### Fluid Data

#### Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH III	MUD FLUSH III - SBM (528788)		bbbl	8.4	.0	.0	.0	
2	Premium	HALCEM (TM) SYSTEM (452986)		sacks	14.8	1.55	6.86		6.86
	6.864 Gal	FRESH WATER							
	10 %	SALT 10% (100003652)							
	10 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	0.6 %	HALAD(R)-322, 50 LB (100003646)							
	5 lbm	KOL-SEAL, BULK (100064233)							
3	Displacement			bbbl	8.43	.0	.0	.0	
	167 lbm/Mgal	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
4	Rat and Mouse	HALCEM (TM) SYSTEM (452986)		sacks	14.8	1.55	6.86		6.86
	6.864 Gal	FRESH WATER							
	10 %	SALT 10% (100003652)							
	10 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	0.6 %	HALAD(R)-322, 50 LB (100003646)							
	5 lbm	KOL-SEAL, BULK (100064233)							

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#### Calculated Values

#### Pressures

#### Volumes

Displacement	112	Shut In: Instant	Lost Returns	Cement Slurry	75	Pad	
Top Of Cement		5 Min	Cement Returns	Actual Displacement	112	Treatment	
Frac Gradient		15 Min	Spacers	10	Load and Breakdown	Total Job	197

#### Rates

Circulating	4	Mixing	5	Displacement	6	Avg. Job	5.5B
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

*David A. Mayfield*

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# HALLIBURTON

# SALES ORDER

Halliburton Energy Services, Inc.

**Sales Order Number: 6797436** **Sales Order Date: July 22, 2009**

<b>SOLD TO:</b> MIDCO EXPLORATION INC. 414 PLAZA DRIVE, SUITE 204 WESTMONT IL 60559 USA	<b>Rig Name:</b> Well/Rig Name: MIDCO EXPL THEIS 2-18,CLARK Company Code: 1100 Customer P.O. No.: NA Shipping Point: Burns Flat, OK, USA Sales Office: Mid-Continent BD Well Type: Gas Well Category: Development Service Location: 0031 Payment Terms: Net 20 days from Invoice date Ticket Type: Services Order Type: ZOH
<b>SHIP TO:</b> MIDCO EXPL THEIS 2-18,CLARK THEIS 2-18 SEC 18 ENGLEWOOD KS 67840 USA	<b>CONFIDENTIAL</b>  NOV 16 2009  KCC

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7521	CMT SURFACE CASING BOM JP010	1.00	JOB					
2	MILEAGE FOR CEMENTING CREW,ZI 000-119 Number of Units	140.000 1	MI unit		5.76	806.40	669.31-	137.09
1	ZI-MILEAGE FROM NEAREST HES 000-117 Number of Units	140.000 1	MI unit		9.79	1,370.60	1,137.60-	233.00
16091	ZI - PUMPING CHARGE 001-018 DEPTH FEET/METERS (FT/M)	1.000 885	EA FT		4,028.00	4,028.00	3,343.24-	684.76
142	AXIAL FLOW MIXER,W/O 046-070 NUMBER OF JOBS	1.000 1	EA Job		1,140.00	1,140.00	946.20-	193.80
132	PORT. DAS W/CEMWIN:ACQUIRE 045-050 NUMBER OF DAYS	1.000 1	JOB Days		1,649.00	1,649.00	1,368.67-	280.33
74038	PLUG CONTAINER RENTAL-1ST DAY DAYS OR FRACTION (MINI)	1.000 1	EA Days	1,322.00	1,322.00	1,322.00	1,097.26-	224.74
452981	EXTENDACEM (TM) SYSTEM	355.00	SK		30.91	10,973.05	9,107.63-	1,865.42

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# HALLIBURTON

Halliburton Energy Services, Inc.

Sales Order Number: 6797436

Sales Order Date: July 22, 2009

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
101509387	CMT, ExtendoCem (TM) system CALCIUM CHLORIDE, PELLET CHEM, CALCIUM CHLORIDE, PELLET, 50 LB	13.000	SK		146.75	1,907.75	1,583.43-	324.32
101216940	POLY-E-FLAKE	45.000	LB		7.84	352.80	292.82-	59.98
452986	HALCEM (TM) SYSTEM	150.00	SK		42.01	6,301.50	5,230.25-	1,071.25
76400	ZI MILEAGE,CMT MTLs DEL/RET 500-306 MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN NUMBER OF TONS	70.000 23.75	MI ton		3.35	5,569.38	4,622.59-	946.79
3965	HANDLE&DUMP SVC CHRg, 500-207 NUMBER OF EACH	553.000 1	CF each		5.49	3,035.97	2,519.86-	516.11
100004702	VLVASSY,INSR FLOAT,8 5/8 BRD VALVE ASSEMBLY, INSERT FLOAT, 8 5/8 BRD CSG, 24 LBS/FT	1.000	EA		679.00	679.00	468.51-	210.49
100013933	FILLUP ASSY - 1.500 ID - 7 815.19405 FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8 INSERT FLOAT VALVE	1.000	EA		150.00	150.00	103.50-	46.50
100004484	CENTRALIZER ASSY - API - 8- CENTRALIZER ASSEMBLY, API, 8 5/8 CASING X 12 1/4 HOLE, HINGED, WITH WELDED BOWS	3.000	EA		195.00	585.00	403.65-	181.35
100004599	BASKET - CEMENT - 8 5/8 CSG X 806.70060 BASKET - CEMENT - 8-5/8 CSG X 11 - 12-1/4 HOLE - SLIP-ON - STEEL VANE - UNIVERSAL BOW	2.000	EA		597.00	1,194.00	823.86-	370.14
101227839	PLUG,CMTG,TOP,8 5/8,HWE,7.20 PLUG, CEMENTING, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MAX CASING ID, SYNTHETIC SERVICE	1.000	EA		380.00	380.00	315.40-	64.60
16092	ADDITIONAL HOURS (PUMPING) 001-018 CSG PUMPING,ADD HR,ZI HOURS	1.000 2.00	EA hr		927.00	1,854.00	1,538.82-	315.18

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# HALLIBURTON

Halliburton Energy Services, Inc.

Sales Order Number: 6797436

Sales Order Date: July 22, 2009

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
53	1" PIPE FOR CEMENTING TOP OUTSIDE,ZI O19-200 NUMBER OF DAYS	100.000 1.00	EA		2.75	275.00		275.00
129315	HANDLG TOOLS FOR 1" PIPE DURNG CMTNG ZI	1.000	EA		89.98	89.98		89.98
100003684	CLASS A REGULAR/TYPE I CEM,CLASS A REGULAR/TYPE 1,BULK	100.000	SK		42.01	4,201.00	3,486.83-	714.17
101509387	CALCIUM CHLORIDE, PELLET CHEM, CALCIUM CHLORIDE, PELLET, 50 LB	5.000	SK		146.75	733.75	609.01-	124.74
76400	ZI MILEAGE,CMT MTLs DEL/RET 500-308 MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN NUMBER OF TONS	60.000 4.79	MI ton		3.35	962.79	799.12-	163.67
3965	HANDLE&DUMP SVC CHRg, 500-207 NUMBER OF EACH	103.000	EA each		5.49	565.47	469.34-	96.13
<b>SALES ORDER AMOUNT</b>						<b>50,126.44</b>	<b>40,936.90-</b>	<b>9,189.54</b>
<b>SALES ORDER TOTAL</b>						<b>50,126.44</b>	<b>40,936.90-</b>	<b>9,189.54</b>
Sales Tax - State								266.75
Total Weight: 57,720.79 LB								9,456.29
								US Dollars

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INVOICE INSTRUCTIONS:

Operator Name:  
Customer Agent:

Halliburton Approval: X \_\_\_\_\_  
Customer Signature: X \_\_\_\_\_

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 317889	Ship To #: 2736228	Quote #:	Sales Order #: 6797436
Customer: MIDCO EXPLORATION INC.		Customer Rep: Mayfield, David	
Well Name: Theis	Well #: 2-18	API/UWI #:	
Field:	City (SAP): ENGLEWOOD	County/Parish: Clark	State: Kansas
Contractor: DUKE	Rig/Platform Name/Num: 6		
Job Purpose: Cement Surface Casing		Job Type: Cement Surface Casing	
Well Type: Development Well	Sales Person: CRAWFORD, ROBERT		
Srvc Supervisor: BRINKMAN, BENNETT		MBU ID Emp #: 414024	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRINKMAN, BENNETT Wade	14	414024	BRITTAN, LYLE	14	460473	NALL, JAMES Tracy	14	412260
TIRRELL, MICHAEL Edward	14	429195						

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
07-24-2009	14	3						
TOTAL			Total is the sum of each column separately					

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Job NOV 16 2009

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD) From	To	Date	Time	Time Zone
			BHST	885. ft				24 - Jul - 2009	04:30	CST
								24 - Jul - 2009	08:15	CST
								24 - Jul - 2009	14:08	CST
								24 - Jul - 2009	22:10	CST
								24 - Jul - 2009	23:15	CST

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
Surface Casing Open Hole				12.25				80.	885.		
Preset Conductor	Unknown		20.	19.124	94.				80.		
Surface Casing	Unknown		8.625	8.097	24.				885.		

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
MLVASSY, INSR FLOAT, 8-5/8 8RD, 24 lbs/ft	1	EA		
FILLUP ASSY - 1.500 ID - 7 IN. - 8-5/8	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	3	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	2	EA		
PLUG, CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA	1	EA		

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			

Submit Version: 7.20 130

Friday, July 24, 2009 22:37:00

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Miscellaneous Materials											
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%	Treatment Fld	Conc	Inhibitor	Conc
Fluid Data											
Stage/Plug #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
1	Halliburton Light Standard	EXTENDACEM (TM) SYSTEM (452981)	355.0	sacks	12.4	2.01	11.07		11.07		
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)									
	0.125 lbm	POLY-E-FLAKE (101216940)									
	11.07 Gal	FRESH WATER									
2	Standard Cement	HALCEM (TM) SYSTEM (452986)	250.0	sacks	15.6	1.19	5.43		5.43		
	5.426 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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