

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5254
Name: Midco Exploration, Inc.
Address 1: 414 PLAZA DR STE 204
Address 2: _____
City: WESTMONT State: IL Zip: 60559 + 1265
Contact Person: Earl J. Joyce, Jr.
Phone: (630) 655-2198
CONTRACTOR: License # 33630
Name: Titan Drilling LLC
Wellsite Geologist: N/A
Purchaser: N/A

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): Evaluating

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
 Conv. to GSW

Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>09/03/2010</u>	<u>09/16/2010</u>	<u>10/29/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-025-21514-00-00
Spot Description: _____
SW NE NE NE Sec. 19 Twp. 33 S. R. 25 East West
370 Feet from North / South Line of Section
340 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Clark
Lease Name: Theis Well #: 5-19
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 2092 Kelly Bushing: 2103
Total Depth: 7610 Plug Back Total Depth: 6880
Amount of Surface Pipe Set and Cemented at: 883 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: 37000 ppm Fluid volume: 500 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: Bulldog Disposal
Lease Name: Bulldog Disposal License #: 22507
Quarter N2 Sec. 28 Twp. 25 S. R. 25 East West
County: Oklahoma Permit #: 225070

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

- Letter of Confidentiality Received
Date: 12/15/2010
- Confidential Release Date: 12/14/2012
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 12/15/2010

Operator Name: Midco Exploration, Inc. Lease Name: Thisis Well #: 5-19

Sec. 19 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	30	20	52	118	common	12	
Surface	12.25	8.625	24	883	common	487	3%cc; 6% gel
Production	7.875	5.5	15.5	7590	H	390	10% salt; 5# gilsonite

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	-			Multiple squeezes attempting to isolate
	-			potential zones - see attached

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
	Perf and squeeze history attached		

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <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

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Midco Exploration, Inc.
Well Name	Theis 5-19
Doc ID	1048182

All Electric Logs Run

Cement Bond Log
Borehole Compensated Sonic Log
Microresistivity Log
Dual Induction Log
Dual Compensated Porosity Log
Tracer Survey

Form	ACO1 - Well Completion
Operator	Midco Exploration, Inc.
Well Name	Theis 5-19
Doc ID	1048182

Tops

Heebner	4215	-2112
Toronto	4232	-2129
Douglas	4269	-2166
Lansing	4387	-2284
B/KC	4969	-2866
Marmaton	4988	-2885
Cherokee	5158	-3055
Chester	5400	-3297
St Gen	5703	-3600
Viola	6870	-4767
Arbuckle	7180	-5077



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

December 15, 2010

Earl J. Joyce, Jr.
Midco Exploration, Inc.
414 PLAZA DR STE 204
WESTMONT, IL 60559-1265

Re: ACO1
API 15-025-21514-00-00
Theis 5-19
NE/4 Sec.19-33S-25W
Clark County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for the maximum time allowed as provided for in Rule 82-3-107.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Earl J. Joyce, Jr.

CONSERVATION DIVISION

Finney State Office Building, 130 S. Market, Room 2078, Wichita, KS 67202-3802
(316) 337-6200 • Fax: (316) 337-6211 • <http://kcc.ks.gov/>

ALLIED CEMENTING CO., LLC. 035451

MAIL TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Clark, KS

DATE <i>9/4/10</i>	SEC <i>9</i>	TWP. <i>25</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION	JOB START <i>10:00am</i>	JOB FINISH <i>10:30am</i>
LEASE <i>Theis</i>		WELL # <i>5-19</i>		LOCATION <i>Englewood N70 Rd 4</i>		COUNTY <i>Clark</i>	STATE <i>KS</i>
OLD OR <u>NEW</u> (Circle one)				<i>6.2 W 500 E 10</i>			

CONTRACTOR <i>Titan</i>	OWNER <i>Same</i>
TYPE OF JOB <i>8 5/8 Surface</i>	
HOLE SIZE <i>12 1/4</i>	T.D.
CASING SIZE <i>8 5/8</i>	DEPTH <i>880'</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>0</i>	
PERFS.	
DISPLACEMENT	

CEMENT AMOUNT ORDERED	<i>300 SK, 65/35 370cc</i>
	<i>670 gel, 150 SK, 60m 370cc 270 gel</i>
	<i>100 SK, 370cc</i>

COMMON	<i>345 SKS</i>	@	<i>15.45</i>	<i>5330.25</i>
POZMIX	<i>105</i>	@	<i>8.00</i>	<i>840.00</i>
GEL	<i>19</i>	@	<i>20.80</i>	<i>395.20</i>
CHLORIDE	<i>15</i>	@	<i>58.00</i>	<i>873.00</i>
ASC		@		

<i>Flo Seal</i>	<i>75 lb</i>	@	<i>2.52</i>	<i>187.50</i>
		@		
		@		
		@		
		@		
		@		

HANDLING	<i>487 SK</i>	@	<i>2.40</i>	<i>1168.80</i>
MILEAGE	<i>104 SK/mile</i>			<i>2435.00</i>
TOTAL				<i>11229.75</i>

EQUIPMENT	
PUMP TRUCK	CEMENTER <i>Alan</i>
# <i>431</i>	HELPER <i>Kelly</i>
BULK TRUCK	
# <i>380</i>	DRIVER <i>Jerry</i>
BULK TRUCK	
# <i>391</i>	DRIVER <i>Brandon</i>

REMARKS:
Run 8 5/8 Cag Circulate Mix 300 SK, 65/35 670 gel 370cc Total w/ 150 SK Com 370cc 270 gel Displace Plug 70 Insert w/ 500 PSL OBL to 2 w/ 500 PSL Lift Bump Plug @ 700 PSL

SERVICE	
DEPTH OF JOB	<i>8</i>
PUMP TRUCK CHARGE	<i>1018.00</i>
EXTRA FOOTAGE	<i>582 @ .85 = 494.70</i>

ALLIED CEMENTING CO., LLC. 035459

O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT *Medicine Lodge*
[Signature]

9/15/10	SEC. 19	TWP. 33	RANGE 25	CALLED OUT	ON LOCATION	JOB START 12:30a	JOB FINISH 1:32a
WELL # 5-19		LOCATION 100-283 Hys 5 to R24		COUNTY Clark		STATE KS	
<input checked="" type="radio"/> OLD OR NEW (Circle one)				6 1/2" W S & E into			

CONTRACTOR Titan OWNER Same

TYPE OF JOB	
HOLE SIZE 7 7/8"	T.D. 7610
CASING SIZE 5 1/2"	DEPTH 7591.98
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT 40.14
CEMENT LEFT IN CSG.	40.14
PERFS.	
DISPLACEMENT	

CEMENT			
AMOUNT ORDERED 390 SKI Class H "ASC"			
1070 Selt 5# Gilsontite 1/2-170 FL160			
11470 Gas Block & Deframer			
Class H COMMON	390sk @	16.75	6532.50
POZMIX	@		
GEL	@		
CHLORIDE	@		
Ch pro	19gal @	31.25	593.75
Gyp Seal	37sk @	29.20	1080.40
Salt	42sk @	12.00	504.00
Kolseal	1950# @	.89	1735.50
FL-760	183.30 @	13.30	2437.89
Gas Block	91.65 @	11.10	1017.31
Deframer	54.6 @	8.50	464.10
Mud Clean	500gal @	1.27	635.00
	@		
HANDLING	390 @	2.40	936.00
MILEAGE	24 5/8/mile		1950.00
Mud Flush 3 ahead 3 behind			
TOTAL			17886.45

EQUIPMENT	
PUMP TRUCK #	CEMENTER <u>Alan</u>
	HELPER <u>Matt</u>
BULK TRUCK #356-252	DRIVER <u>Jason</u>
BULK TRUCK #	DRIVER

REMARKS: mix 10 00L SAAP
 Run 3 1/2" Csg, Circulate mix 15 SKI M Hole,
 25 SKI Well Hole, mix 350 SKI Class H ASC
 Down 5 1/2" Displace Plug to latch down
 w/ 18 1/2" 00L Ch pro to 1400 PST LIFT,
 Land Plug @ 2500 PST, Plug did

SERVICE	
DEPTH OF JOB	
PUMP TRUCK CHARGE	3279.00
EXTRA FOOTAGE	

ALLIED CEMENTING CO., LLC. 042225

MITTO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal Mo.

DATE <u>9.25.10</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:30 A.M.</u>	JOB START <u>9:00 A.M.</u>	JOB FINISH <u>12:00 P.M.</u>
LEASE <u>Theers</u>	WELL # <u>S-19</u>		LOCATION <u>1600 +283, 1S, 6.2W, S1W10</u>		COUNTY <u>Clark</u>	STATE <u>MO.</u>	
<input checked="" type="radio"/> OLD OR NEW (Circle one)							

CONTRACTOR Superior

TYPE OF JOB 3 gauge

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE 2 7/8 DEPTH 6835'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 2500 MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 3 3/4 B.B. / 5 fresh

OWNER Midco Exploration

CEMENT

AMOUNT ORDERED 100s A Neat

50s A + 50s C

EQUIPMENT

PUMP TRUCK CEMENTER m. Coley

872 HELPER Leaser P

BULK TRUCK

457-251 DRIVER TWS

BULK TRUCK

_____ DRIVER _____

COMMON	<u>150 @ 15.45</u>	<u>2317.50</u>
POZMIX	@	
GEL	@	
CHLORIDE	<u>2 @ 58.20</u>	<u>116.40</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>152 @ 2.40</u>	<u>364.80</u>
MILEAGE	<u>152 / 50 / 10</u>	<u>760.00</u>
TOTAL		<u>3558.70</u>

REMARKS:

See Job Log.

SERVICE

DEPTH OF JOB 6835'

PUMP TRUCK CHARGE 2884.00

ALLIED CEMENTING CO., LLC. 037071

SHIP TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge KS

DATE <u>10-2-10</u>	SEC. <u>19</u>	TWP. <u>33S</u>	RANGE <u>25W</u>	CALLED OUT <u>4:00 AM</u>	ON LOCATION <u>8:00 AM</u>	JOB START <u>10:30 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>Theis</u>		WELL # <u>S-19</u>		LOCATION <u>Englewood Jct, 1 South</u>		COUNTY <u>Clatsop</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD OR NEW (Circle one)				<u>6.2 West, South Into</u>			

CONTRACTOR Superior Services Inc. OWNER Mico Exploration

TYPE OF JOB Square
 HOLE SIZE 7 7/8 T.D. _____
 CASING SIZE 5 1/2 DEPTH 760'
 TUBING SIZE 2 7/8 DEPTH 6845'
 DRILL PIPE _____ DEPTH _____
 TOOL Rotator DEPTH 6845'
 PRES. MAX 2500 psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. 6872' to 77'
 DISPLACEMENT 38 1/2 bbls of Freshwater

CEMENT
 AMOUNT ORDERED 75 sv Class A next
50 sv class A + 3% loss

COMMON	<u>A 125 sx @ 15.45</u>	<u>1931.25</u>
POZMIX	_____ @ _____	_____
GEL	_____ @ _____	_____
CHLORIDE	<u>2 sx @ 58.20</u>	<u>116.40</u>
ASC	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
_____	_____ @ _____	_____
HANDLING	<u>127</u> @ <u>2.40</u>	<u>304.80</u>
MILEAGE	<u>127.10 / 50</u>	<u>635.00</u>
TOTAL		<u>2287.45</u>

EQUIPMENT

PUMP TRUCK CEMENTER Derin F
 # 471-302 HELPER Ron G
 BULK TRUCK
 # 364 DRIVER Jason T
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Log back side to 500 psi; Tsig Injectors
Rate 9t 6 bpm 9t 1200 psi; mix 75sv
Class A next, mix 50sv class A + 3% loss
Wash pump & lines, Displace 38 1/2 bbls
Fresh water with 15 m wires. Pressure 40

SERVICE

DEPTH OF JOB 6845'
 PUMP TRUCK CHARGE 2295.00

ALLIED CEMENTING CO., LLC. 042234

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lake, ks

DATE <u>10-11-2010</u>	SEC. <u>19</u>	TWP. <u>33s</u>	RANGE <u>2Sw</u>	CALLED OUT <u>2:00 pm</u>	ON LOCATION <u>4:00 pm</u>	JOB START <u>6:00 pm</u>	JOB FINISH <u>7:00 pm</u>
LEASE <u>Theis</u>		WELL # <u>S-19</u>		LOCATION <u>Enslinwood Jct., 1 south</u>		COUNTY <u>CLARK</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD <input type="radio"/> NEW (Circle one)				<u>6.2 West, S & E & N into</u>			

CONTRACTOR Superior Servicing Inc

OWNER Mid Co Exploration

TYPE OF JOB Retainer Service

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH

TUBING SIZE 2 7/8 DEPTH 6843'

DRILL PIPE DEPTH

TOOL Retainer DEPTH 6843'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 39 1/2 bbls of Fresh Water

EQUIPMENT

PUMP TRUCK CEMENTER Darin F.

414-302 HELPER Ron G.

BULK TRUCK DRIVER Jason T.

BULK TRUCK DRIVER

REMARKS:

Loss backside to 750psi with 50 bbls
TGR Injection Rate at 4 1/2 bpm at 1400
Psi, mix 50% class A neat, mix 50% class
A + 2% CC, 695h pump & lines, start
displacement, Pump 39 1/2 bbls pressure & up
to 2,500 psi, shut down, wait 8 minutes

CEMENT

AMOUNT ORDERED 50% class A Neat

50% class A + 3% CC

2 sacks CC

COMMON A 100 sk @ 15.45 1545.00

POZMIX @

GEL @

CHLORIDE 2 sk @ 58.20 116.40

ASC @

@

@

@

@

@

@

@

@

@

HANDLING 102 @ 2.40 244.80

MILEAGE 102 / .80 / 50 510.00

TOTAL 2416.20

SERVICE

DEPTH OF JOB 6843'

PUMP TRUCK CHARGE 2295.00

EXTRA FOOTAGE @

Theis #5-19 - ACO-1 attachment

Squeeze, Perforation & Treatment Detail

- 10/14/10 Drill out; perforate 6872-74' - 3 shots per foot ; set cast iron bridge plug @ 6880' ; treat with 750 gallons 7.5% INS - Double FE HCL HF
- 10/11/10 Knock cast iron bridge plug loose; push to 7535' ; squeeze 100 sacks (50 A Neat; 50 A)
- 10/05/10 Drill out cement retainer; perforate 6872-77' - 4 shots per foot ; set cast iron bridge plug @ 6880' ; treat with 250 gallons 15% INS Double FE
- 10/02/10 Knock cast iron bridge plug to 7500' ; set cement retainer @ 6,845' ; squeeze 125 sacks (75 A Neat; 50 A)
- 09/28/10 Perforate 6872-77' - 4 shots per foot ; set cast iron bridge plug @ 6881' ; treat with 1500 gallons 15% NE-Double FE
- 09/25/10 Set cement retainer @ 6835' ; squeeze 150 sacks (100 A Neat; 50 A)
- 09/22/10 Perforate 6886-93' - 4 shots per foot ; treat with 1500 gallons NE Double FE