CORRECTION #1

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1252946

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 # 35087
Name: Chase Energy, LLC
Address 1: 40770 W. 327TH ST.
Address 2:
City: OSAWATOMIE State: KS Zip: 66064 + __ __ __ __
Contact Person: Tim Chase
Phone: (785) 418-8600
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

7/31/2014	8/4/2014	8/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-30521-00-00
Spot Description:
SE - SE - SE - SW Sec. 26 Twp. 17 S. R. 21 ☑ East ☐ West
165 Feet from ☐ North / ☑ South Line of Section
2805 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Miami
Lease Name: Chase Well #: 1
Field Name:
Producing Formation: Bartlesville
Elevation: Ground: 892 Kelly Bushing: 0
Total Vertical Depth: 580 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 83 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 83 w/ 22 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated

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: 09/05/2014
☑ **Confidential Release Date:** 09/04/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 05/22/2015

CORRECTION #1
Page Two

[redacted]

1252946

Operator Name: Chase Energy, LLC Lease Name: Chase Well #: 1

Sec. 26 Twp. 17 S. R. 21 ☑ East ☐ West County: Miami

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
GammaRay	20	GL

CASING RECORD ☑ New ☐ 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	9	7	10	83.5	Porltand	22	50/50 POZ
Completion	5.6250	2.8750	8	567.4	Portland	126	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 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)*

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	507-517	2" DML RTG	10

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 8/4/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Chase Energy, LLC
Well Name	Chase 1
Doc ID	1252946

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	7	10	83.5	Porltand	22	50/50 POZ
Completion	5.6250	2.8750	8	567.4	Portland	126	50/50 POZ

Summary of Changes

Lease Name and Number: Chase 1

API/Permit #: 15-121-30521-00-00

Doc ID: 1252946

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	09/08/2014	05/22/2015
Date of First or Resumed Production or SWD or Enhr		8/4/2014
Producing Method Pumping	No	Yes
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1217933	../../kcc/detail/operatorEditDetail.cfm?docID=1252946
TopsDatum1		GL
TopsDepth1		20

Confidentiality Requested:
☑ Yes ☐ No

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1217933

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 # 35087
Name: Chase Energy, LLC
Address 1: 40770 W. 327TH ST.
Address 2:
City: OSAWATOMIE State: KS Zip: 66064 + __ __ __ __
Contact Person: Tim Chase
Phone: (785) 418-8600
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

7/31/2014	8/4/2014	8/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-30521-00-00
Spot Description:
SE - SE - SE - SW Sec. 26 Twp. 17 S. R. 21 ☑ East ☐ West
165 Feet from ☐ North / ☑ South Line of Section
2805 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Miami
Lease Name: Chase Well #: 1
Field Name:
Producing Formation: Bartlesville
Elevation: Ground: 892 Kelly Bushing: 0
Total Vertical Depth: 580 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 83 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 83 w/ 22 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated

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: 09/05/2014
☐ Confidential Release Date:
☑ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☐ I ☑ II ☐ III Approved by: NAOMI JAMES Date: 09/08/2014

Operator Name: Chase Energy, LLC Lease Name: Chase Well #: 1

Sec. 26 Twp. 17 S. R. 21 ☑ East ☐ West County: Miami

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 Sheets)*	☐ Yes	☑ No	
Samples Sent to Geological Survey	☐ Yes	☑ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☐ Yes	☐ No	

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
GammaRay	20	GL

CASING RECORD ☑ New ☐ 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	9	7	10	83.5	Porltand	22	50/50 POZ
Completion	5.6250	2.8750	8	567.4	Portland	126	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 8/4/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
2					2" DML RTG

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Chase Energy, LLC
Well Name	Chase 1
Doc ID	1217933

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	507-517	2" DML RTG	10

Form	ACO1 - Well Completion
Operator	Chase Energy, LLC
Well Name	Chase 1
Doc ID	1217933

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	7	10	83.5	Porltand	22	50/50 POZ
Completion	5.6250	2.8750	8	567.4	Portland	126	50/50 POZ

Miami County, KS
Well: Chase #1
Lease Owner:Chase Energy

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
07/31/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
25	soil/clay	25
10	river rock	35
12	sandy lime and lime	47
6	sandy lime and lime	53
20	sandy shale and shale	73
5	sandy shale and lime	78
40	shale	118
12	lime	130
2	shale	132
3	lime	135
10	shale	145
27	lime	172
3	shale	175
2	slate	177
3	shale	180
24	sandy lime and lime	204
5	shale	209
12	lime	221
25	shale	246
3	sand	249
2	sandy shale	251
93	shale	344
2	sandy shale	346
11	broken sand	357
3	broken sand	360
2	broken sand	362
5	broken sand	367
1	broken sand	368
13	lime	381
7	sand	388
7	sandy shale	395
29	shale	424
6	lime	430
3	sandy lime and lime	433
10	shale	443
2	lime	445
2	slate	447
10	shale	457
6	lime	463
17	shale	480

Miami County, KS
Well: Chase #1
Lease Owner:Chase Energy

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
07/31/2014

1	lime	481
2	shale	483
3	sand	486
1	broken sand	487
2	lime	489
5	shale	494
6	broken sand	500
1	broken sand	501
3	broken sand	504
6	broken sand	510
7	broken sand	517
13	sandy shale	530
39	shale	569
3	broken sand	572
3	sandy shale	575
5	shale	580-TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.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

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}}$ = AMPS

746 WATTS equal 1 HP

Log Book

Well No. Chase - #1

Farm Chase

KS (State) Miami (County)

26 (Section) 17 (Township) 21 (Range)

For Chase Energy (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Chase Farm: Miami County

KS State; Well No. 1

Elevation 892

Commenced Spuding 7-31 20 11

Finished Drilling 8-4 20 11

Driller's Name David Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

26 17 21

(Section) (Township) (Range)

Distance from S line, 445 ft.

Distance from E line, 2505 ft.

Cemented by TOS

CASING AND TUBING RECORD

10" Set		10" Pulled	
7⅛" Set	83.5	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2⅞ Set	567.4	2" Pulled	

536.6 Baffle

540 TD

Chase Pipe

My Truck

1	30-8	- Baffle	536.6
2	32-1		
~~3~~	~~32-5~~		
4	31-9		
5	32-4		159.7
6	32-1		
7	32-3		
~~8~~	~~32-4~~		
9	31-4		
10	31-3		159.5
11	31-1		
12	31-2		
13	28-8		
14	31-8		
15	32-1		155
16	31-5		
17	32-3		
18	31-8		
19	31-3		
20	31-2		158

567.4 ~~632~~

Thickness of Strata	Formation	Total Depth	Remarks
25	soil / clay	25	
10	river rock	35	
12	sand, limestone	47	
6	sand	53	
20	sandy shale, shale	73	
5	sandy shale, lime	78	
40	shale	118	
12	Lime	130	
2	shale	132	
3	Lime	135	
10	shale	145	
27	Lime	172	
3	shale	175	
2	shale	177	
3	shale	180	
24	sandy, lime, lime	204	
5	shale	209	
12	Lime	221	Hardlime
25	shale	246	
3	sand	249	sandy, no oil
2	sandy, shale	251	
93	shale	344	
2	sandy shale	346	
11	Broken sand	357	
3	Broken sand	360	no oil
2	Broken sand	362	5% - 10% odor
5	Broken sand	367	20% - 30%, sl. cht bleed
			15% - 25% oil

Thickness of Strata	Formation	Total Depth	Remarks
		367	
1	Broken sand	368	30% oil with lime
12	Lime	380	
7	sand	388	
7	sandy shale	395	show gas oil
29	shale	424	
6	Lime	430	
18	sandy Lime	448	
10	shale	458	
2	Lime	460	
2	shale	462	
10	shale	472	
6	Lime	478	
17	shale	495	
1	Lime	496	
2	shale	498	
3	sand	501	odor, little oil
1	Broken sand	502	
2	Lime	504	
51	shale	555	
6	Broken sand	561	
1	Broken sand	562	odor, 2% oil
3	Broken sand	565	10% - 30% oil
6	Broken sand	571	20% - 30% oil, slight bleed
1	Broken sand	572	40% - 50% oil
18	sandy shale	590	
39	shale	629	
3	Broken sand	632	odor, little oil

572

Thickness of Strata	Formation	Total Depth	Remarks
3	sand, shale	575	
5	shale	580	TD

Town Oilfield Service

P.O Box 339 Louisburg, Ks 66053
913-837-8400

Ticket Number_____
Location_____
Foreman_____

Field Ticket & Treatment Report

Cement

Date	Customer#	Well Name & Number	Section	Township	Range	County
8/4/14	Chase Energy	Chase #1	26	17	21E	Miami

Customer

Mailing Address: 40770 W. 327th St.

City: Osawatomie State: KS. Zip Code: 66064

Job Type: longstring Hole Size: 5 5/8 Hole Depth: 580 Casing Size & Weight: 2 7/8

Casing Depth: 567.4 Drill Pipe_____ Tubing_____ Other_____

Displacement: 4.6 Displacement PSI: 800 Mix PSI: 200 Rate: 4 BPM

Remarks_____

Account Code	Quantity or Units	Description of Services or Product	Unit Price	Total
		Pump Charge		800
		Cement Truck		250
		Water Truck		150
	126	Cement Class A	10.50	1323
		Gel		Ø
		Plug		25
			Sales Tax	Ø
			Estimated Total	2548.00

Authorization [signature] Title Owner Date 8-4-14

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.