Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1243497

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:	SecTwpS. R		
Address 2:	Feet from North / South Line of Section		
City:	Feet from _ East / _ West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
	Producing Formation:		
☐ Oil ☐ WSW ☐ SWD ☐ SIOW	Elevation: Ground: Kelly Bushing:		
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Total Vertical Depth: Plug Back Total Depth:		
☐ OG ☐ ☐ GSW ☐ Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet		
Cothodia Othor (Court First at a la	Multiple Stage Cementing Collar Used? Yes No		
Cathodic Other (Core, Expl., etc.):			
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	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		
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)		
Commingled Poweit #	Chloride content:ppm Fluid volume:bbls		
☐ Commingled     Permit #:       ☐ Dual Completion     Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
ENHR Permit #:	Location of fluid disposal if fladied offsite.		
GSW Permit #:	Operator Name:		
	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R		
Recompletion Date  Recompletion Date	Countv: 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 Approved by: Date:			

# 1243497

No.   Twp.   S. R.	Operator Name:			Lease Name: _			Well #:	
open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrocataic pressures, bottom hole temperature, fluid recovery, and flow rates if gets to surface lest, along with final further). Attach of an abroad if more space is more pade.  Final Radioachity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kec-well-logs 6koc.ks.gov. Digital electronic log fless must be submitted in LAS version 2.0 or never AND an image file (TIFF or PDF).  Drill Stem Tasks Taken	Sec Twp	S. R [	East West	County:				
Dill Stom Tests Takon	open and closed, flowing and flow rates if gas to Final Radioactivity Log,	ng and shut-in pressur surface test, along wit , Final Logs run to obt	res, whether shut-in pre th final chart(s). Attach ain Geophysical Data a	essure reached stati extra sheet if more and Final Electric Lo	c level, hydrosta space is neede	tic pressures, t d.	pottom hole tempe	erature, fluid recovery,
Samples Sent to Geological Survey	— — — — — — — — — — — — — — — — — — —	III LAS VEISIOII 2.0 OI	Tiewer AND arrimage	ille (TILL OLLDE).				
Samples Sent to Geological Survey   Yes   No   Crest Taken   Yes   No   Electric Log Run		neets)	Yes No			on (Top), Depth		
Electric Log Run:    List All E. Logs Run:	Samples Sent to Geolo	gical Survey	☐ Yes ☐ No	Ivam	е		юр	Datum
CASING RECORD  New  Used   Report all strings set-conductor, surface, intermediate, production, etc.    Purpose of String								
Report all strings sel-conductor, surface, intermediate, production, etc.  Purpose of String	List All E. Logs Run:							
Report all strings sel-conductor, surface, intermediate, production, etc.  Purpose of String								
Purpose of String								
ADDITIONAL CEMENTING / SQUEEZE RECORD  Purpose:		0: 11.1					" 0 1	T 15 .
Purpose:	Purpose of String							
Purpose:								
Purpose:								
Purpose:								
Purpose:								
Perforate Protect Casing Protect Casing Plug Back TD Plug Off Zone  Did you perform a hydraulic fracturing treatment on this well?  Did you perform a hydraulic fracturing treatment on this well?  Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?   yes   No			ADDITIONAL	. CEMENTING / SQL	JEEZE RECORD			
Protect Casing Plug Back TD Plug Off Zone  Did you perform a hydraulic fracturing treatment on this well?  Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?   Yes			Type of Cement	# Sacks Used		Type an	d Percent Additives	
Did you perform a hydraulic fracturing treatment on this well?  Did you perform a hydraulic fracturing treatment on this well?  Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Protect Casing							
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Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?								
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?		_						nd 3)
Shots Per Foot			-	-				of the ACO-1)
Specify Footage of Each Interval Perforated (Amount and Kind of Material Used)  Depth  TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes No  Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain)  Estimated Production Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity  DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION INTERVAL: (Submit ACO-4)								
Date of First, Resumed Production, SWD or ENHR.  Producing Method:  Flowing Pumping Gas Lift Other (Explain)  Estimated Production Per 24 Hours  DISPOSITION OF GAS:  Vented Sold Used on Lease  Open Hole Perf. Dually Comp. (Submit ACO-4)  (Submit ACO-4)	Shots Per Foot							
Date of First, Resumed Production, SWD or ENHR.  Producing Method:  Flowing Pumping Gas Lift Other (Explain)  Estimated Production Per 24 Hours  DISPOSITION OF GAS:  Vented Sold Used on Lease  Open Hole Perf. Dually Comp. (Submit ACO-4)  (Submit ACO-4)								
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Flowing	Date of First Resumed P	roduction SWD or ENH	3. Producing Meth	nod:			-	
Per 24 Hours  DISPOSITION OF GAS:  WETHOD OF COMPLETION:  PRODUCTION INTERVAL:  PRODUCTION INTERVAL:  PRODUCTION INTERVAL:  Open Hole  Perf.  Dually Comp. (Submit ACO-4)  (Submit ACO-4)	Sate of Fred Fred Fred Fred Fred Fred Fred Fred				Gas Lift 0	Other (Explain)		
Vented Sold Used on Lease Open Hole Perf. Dually Comp. (Submit ACO-4)		Oil Bb	ols. Gas	Mcf Wat	er B	bls.	Gas-Oil Ratio	Gravity
Vented Sold Used on Lease Open Hole Perf. Dually Comp. (Submit ACO-4)	DICTORITION	N OF OAC	·   .	AETHOD OF COME	TION		DD05:107:1	NALIAITED (A)
(Submit ACO-5) (Submit ACO-4)						mmingled	PRODUCTIO	ли INTERVAL:
(ii veneu, outsine Acc 16.) Other (Specify)			Other (Specify)					

Form	ACO1 - Well Completion
Operator	Source Energy MidCon LLC
Well Name	Nattier 16-34-24
Doc ID	1243497

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set			Type Of Cement		Type and Percent Additives
Surface	12.25	9.625	36	364	Class A	175	3% CaCl2
Production	8.75	7.000	23	2869	Class A	175	2% gel

# ALLIED OIL & GAS SERVICES, LLC 069698

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
	1-30-15 1-31-15 Corest Berry 15
DATE 1-3415 SEC. TWP. RANGE OZE C	ALLED OUT ON LOCATION JOB START JOB FINISH 1/ p/h 2/36 Am 1/1004 /2600mm
LEASE May The WELL # 16-34-27 LOCATION NEW 40	COUNTY STATE
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TOOL DEPTH	
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Prime 5 ble frost word Aberd Mr. 175 gks cenant 5 but down D Getegge plag Digologe 25 66's Gretnant Land flag (P) 1000 II Jeset Hald	DEPTH OF JOB 369, 59 PUMP TRUCK CHARGE EXTRA FOOTAGE
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Prime 5 ble fresh war Abend Mic 175 4ks cement 5 best down For Bedegse plag Displace 25 66's Freshward Land flag @ 1000 II i spir Hald Plag Displace 11'70 Am levent did Mich. Dry Disma 5 hr war place	DEPTH OF JOB 369, 54  PUMP TRUCK CHARGE  EXTRA FOOTAGE  WAYET MANIFOLD  MANIFOLD
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Prime 5 ble fresh war Abend Mic 175 4ke cenary 5 best down &  George plag Displace 25 bbs Freshwar  Land flag @ 1000 II insert Hold  Plag Dissam 11:70 Am lever did circula  Reg 1750m 5 hr war place  CHARGE TO: 521/LE Every  STREET	DEPTH OF JOB 369, 54  PUMP TRUCK CHARGE  EXTRA FOOTAGE  WAYTOM. 51  MANIFOLD  HVM 30
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Prime 5 ble frost word About  M/k 175 gks censor 5 but down D  Eddegse plug Displace 25 66's Rechnood  Land flug (9) 1000 IF 1-gert Held  Plug Diame 11'.70 Am lemonded World  Ring Down 5 hr walt place  CHARGE TO: STATE ZIP  To: Allied Oil & Gas Services, LLC.	DEPTH OF JOB 369, 54  PUMP TRUCK CHARGE  EXTRA FOOTAGE  WAYTIME, 56  MANIFOLD  HVM 30  LVM 30  LVM 30  PLUG & FLOAT EQUIPMENT
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To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	DEPTH OF JOB 369, 54  PUMP TRUCK CHARGE  EXTRA FOOTAGE  WAYTIME, 56,  MANIFOLD  HVM 30  LVM 30  LVM 30  PLUG & FLOAT EQUIPMENT  1-97/6 Guldo, Ise  H-97/8 Centralizers  1-98/4 Africalizers
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# ALLIED OIL & GAS SERVICES, LLC 06862

Federal Tax I.D. # 20-8651475 REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092 SERVICE POINT: 618-5 Band FS TWP DATE 2-7-15 RANGE CALLED OUT 24 ON LOCATION JOB START LEASE NOTTIEN WELL # 16-34-24 LOCATION ARELIZA 1/33 COUNTY OLD OR NEW (Circle one) STATE Horvey NINTO CONTRACTOR Sunn! Dolling #1 TYPE OF JOB <u>OWNER</u> HOLE SIZE T.D. **CASING SIZE** CEMENT DEPTH TUBING SIZE 2870,67 AMOUNT ORDERED 1755x class A DEPTH DRILL PIPE +24, gel +124, selt +64, gyp +5 # Kolgan 1 +34, 61-162+, 144, DF +125 Flosen 1 DEPTH TOOL DEPTH PRES. MAX MINIMUM MEAS. LINE COMMON\_ SHOE JOINT CEMENT LEFT IN CSG POZMIX PERFS. GEL DISPLACEMENT CHLORIDE 1167 66/2 ASC EQUIPMENT 520 901 PUMPTRUCK CEMENTER DUSTIN Chambers Fluid 1055 CF # 597 Powdered De Games HELPER Kevin Eddy BULK TRUCK F10 5001 DRIVER BULK TRUCK DRIVER REMARKS: The 10/20 II SERVICE 54- Down Release PhyDEPTH OF JOB 2970:67 PUMP TRUCK CHARGE # W/ 650H EXTRA FOOTAGE MILEAGE MANIFOLD. HVH LUM CHARGE TO: \_ STREET CITY\_ \_STATE\_ ZIP\_ PLUG & FLOAT EQUIPMENT 3730 Rton 10-71 censulreer To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment Lorch Dolon plag and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. Si

PRINTED NAME

**SIGNATURE** 

Contro



#### DRILL STEM TEST REPORT

Source Energy MidCom,LLC.

16-24s-2e Harvey, Co. Ks.

1805 Shea Center Dr.STE 100 Highland Ranch, Co.80129 Nattier # 16-34-24

Job Ticket: 57807

DST#:1

ATTN: Roger Martin

Test Start: 2015.02.06 @ 00:46:48

Matt Smith

#### **GENERAL INFORMATION:**

Formation: Burgess Sand

Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 07:39:03 Time Test Ended: 23:34:33

Interval:

Total Depth:

Unit No: 53

Tester:

2842.00 ft (KB) To 2871.00 ft (KB) (TVD) Reference Elevations:

1445.00 ft (KB) 1435.00 ft (CF)

Hole Diameter: 8.75 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8931 Inside

Press @RunDepth: 629.27 psig @ 2843.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2015.02.06
 End Date:
 2015.02.06
 Last Calib.:
 2015.02.06

 Start Time:
 00:46:53
 End Time:
 23:34:32
 Time On Btm:
 2015.02.06 @ 07:30:18

 Time Off Btm:
 2015.02.06 @ 11:13:03

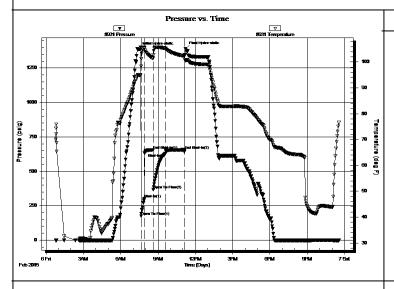
TEST COMMENT: IF: Fair - Strong blow . B.O.B. in 1 min 40 secs.

2871.00 ft (KB) (TVD)

ISI: No blow . Bleed off in 3 mins.

FF: Fair - Strong blow . B.O.B. in 1 1/2 mins. G.T.S. in 3 mins. Gauged gas. See gas report.

FSI: Weak - Fair blow . Surf., - 4 1/2". Blow back started 13 mins into shut in.



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1386.39	94.94	Initial Hydro-static
9	173.78	101.17	Open To Flow (1)
24	300.61	105.60	Shut-In(1)
67	655.02	101.44	End Shut-In(1)
68	367.31	102.70	Open To Flow (2)
126	629.27	105.26	Shut-In(2)
219	656.36	102.33	End Shut-In(2)
223	1389.20	100.47	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
312.00	OspecMCW 5%m 95%w	1.53
360.00	SltOMCW 4%m 96%w	2.66
360.00	OCMW5%o 15%m 80%w	2.66
361.00	GOMCW 5%g 5%o 35%m 55%w	2.67
0.00	G.T.S. G.I.P 100% g	0.00
0.00	RW .21 @ 48 = 85000 chlorides ppm	0.00

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.00	6.14
Last Gas Rate	0.13	0.00	5.39
Max. Gas Rate	0.13	2.00	6.14

Trilobite Testing, Inc Ref. No: 57807 Printed: 2015.02.07 @ 06:51:38



### DRILL STEM TEST REPORT

**FLUID SUMMARY** 

Source Energy MidCom,LLC.

16-24s-2e Harvey, Co. Ks.

1805 Shea Center Dr.STE 100 Highland Ranch, Co.80129 Nattier # 16-34-24

Job Ticket: 57807

DST#: 1

ATTN: Roger Martin

Test Start: 2015.02.06 @ 00:46:48

#### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil A Pl: deg A Pl

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 85000 ppm

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.21 ohm.m Gas Cushion Pressure: psig

Salinity: 1300.00 ppm Filter Cake: 0.20 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
312.00	OspecMCW 5%m 95%w	1.534
360.00	SItOMCW 4%m 96%w	2.664
360.00	OCMW5%o 15%m 80%w	2.664
361.00	GOMCW 5%g 5%o 35%m 55%w	2.671
0.00	G.T.S. G.I.P 100% g	0.000
0.00	RW .21 @ 48 = 85000 chlorides ppm	0.000

Total Length: 1393.00 ft Total Volume: 9.533 bbl

Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: MAS Pratt

Laboratory Name: Caraway

Recovery Comments:

Laboratory Location: Liberal, KS

Trilobite Testing, Inc Ref. No: 57807 Printed: 2015.02.07 @ 06:51:39



# DRILL STEM TEST REPORT

**GAS RATES** 

DST#: 1

Source Energy MidCom,LLC.

16-24s-2e Harvey, Co. Ks.

1805 Shea Center Dr.STE 100 Highland Ranch, Co.80129

Nattier # 16-34-24

Job Ticket: 57807

Test Start: 2015.02.06 @ 00:46:48

#### **Gas Rates Information**

Temperature: 59 (deg F)

Relative Density: 0.65 Z Factor: 8.0

#### Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	2.00	6.14
2	20	0.13	2.00	6.14
2	30	0.13	2.00	6.14
2	40	0.13	1.00	5.76
2	50	0.13	0.00	5.39
2	60	0.13	0.00	5.39

Trilobite Testing, Inc Ref. No: 57807 Printed: 2015.02.07 @ 06:51:39

