



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224272
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1224272

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input 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 <i>(Explain)</i> _____				
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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Murphy 3119 3-7H
Doc ID	1224272

Tops

Name	Top	Datum
Base Anhydrite	2510	-325
Base Heebner	4232	-2047
Lansing Limestones	4406	-2221
Marmaton Limestones	4943	-2700
Big Lime	4985	-2729
Oswego Limestones	5005	-2741
Pawnee Limestones	5073	-2778
Cherokee Shale Marker	5116	-2801
Mississippi Unconformity	5331	-2897
Mississippi Limestone	5370	-2910
Mississippi Solid	5400	-2920

Murphy 3119 3-7H

Perforations 5 shots per foot

Perforations						
Date	Top (ftKB)	Blm (ftKB)	Zone Name	Shot Dens (shots/ft)	Current Status	Com
7/12/2014	5,536.0	5,538.0		4.0	Active	
7/12/2014	5,442.0	5,444.0		4.0	Active	
7/12/2014	5,342.0	5,344.0		4.0	Active	
7/24/2014	9,765.0	9,767.0	Miss Lime	5.0	Active	
7/24/2014	9,832.0	9,834.0	Miss Lime	5.0	Active	
7/24/2014	9,878.0	9,880.0	Miss Lime	5.0	Active	
7/24/2014	9,928.0	9,930.0	Miss Lime	5.0	Active	
7/24/2014	9,435.0	9,437.0	Miss Lime	5.0	Active	
7/24/2014	9,496.0	9,498.0	Miss Lime	5.0	Active	
7/24/2014	9,558.0	9,560.0	Miss Lime	5.0	Active	
7/24/2014	9,607.0	9,609.0	Miss Lime	5.0	Active	
7/24/2014	9,676.0	9,678.0	Miss Lime	5.0	Active	
7/25/2014	9,136.0	9,138.0	Miss Lime	5.0	Active	
7/25/2014	9,192.0	9,194.0	Miss Lime	5.0	Active	
7/25/2014	9,242.0	9,244.0	Miss Lime	5.0	Active	
7/25/2014	9,301.0	9,303.0	Miss Lime	5.0	Active	
7/25/2014	9,360.0	9,362.0	Miss Lime	5.0	Active	
7/25/2014	8,824.0	8,826.0	Miss Lime	5.0	Active	
7/25/2014	8,890.0	8,892.0	Miss Lime	5.0	Active	
7/25/2014	8,950.0	8,952.0	Miss Lime	5.0	Active	
7/25/2014	9,007.0	9,009.0	Miss Lime	5.0	Active	
7/25/2014	9,079.0	9,081.0	Miss Lime	5.0	Active	
7/25/2014	8,466.0	8,468.0	Miss Lime	5.0	Active	
7/25/2014	8,536.0	8,538.0	Miss Lime	5.0	Active	
7/25/2014	8,599.0	8,601.0	Miss Lime	5.0	Active	
7/25/2014	8,666.0	8,668.0	Miss Lime	5.0	Active	
7/25/2014	8,758.0	8,760.0	Miss Lime	5.0	Active	
7/25/2014	8,160.0	8,162.0	Miss Lime	5.0	Active	
7/25/2014	8,221.0	8,223.0	Miss Lime	5.0	Active	
7/25/2014	8,291.0	8,293.0	Miss Lime	5.0	Active	
7/25/2014	8,362.0	8,364.0	Miss Lime	5.0	Active	
7/25/2014	8,414.0	8,416.0	Miss Lime	5.0	Active	
7/25/2014	7,834.0	7,836.0	Miss Lime	5.0	Active	
7/25/2014	7,900.0	7,902.0	Miss Lime	5.0	Active	
7/25/2014	7,968.0	7,970.0	Miss Lime	5.0	Active	
7/25/2014	8,027.0	8,029.0	Miss Lime	5.0	Active	
7/25/2014	8,106.0	8,108.0	Miss Lime	5.0	Active	
7/25/2014	7,526.0	7,528.0	Miss Lime	5.0	Active	
7/25/2014	7,584.0	7,586.0	Miss Lime	5.0	Active	
7/25/2014	7,660.0	7,662.0	Miss Lime	5.0	Active	
7/25/2014	7,700.0	7,702.0	Miss Lime	5.0	Active	
7/25/2014	7,764.0	7,766.0	Miss Lime	5.0	Active	

Murphy 3119 3-7H

Perforations..cont

5 shots per foot

Perforations						
Date	Top (ftKB)	Btm (ftKB)	Zone Name	Shot Dens (shots/ft)	Current Status	Com
7/26/2014	7,214.0	7,216.0	Miss Lime	5.0	Active	
7/26/2014	7,280.0	7,282.0	Miss Lime	5.0	Active	
7/26/2014	7,344.0	7,346.0	Miss Lime	5.0	Active	
7/26/2014	7,410.0	7,412.0	Miss Lime	5.0	Active	
7/26/2014	7,471.0	7,473.0	Miss Lime	5.0	Active	
7/26/2014	6,899.0	6,901.0	Miss Lime	5.0	Active	
7/26/2014	6,972.0	6,974.0	Miss Lime	5.0	Active	
7/26/2014	7,042.0	7,044.0	Miss Lime	5.0	Active	
7/26/2014	7,102.0	7,104.0	Miss Lime	5.0	Active	
7/26/2014	7,144.0	7,146.0	Miss Lime	5.0	Active	
7/26/2014	6,554.0	6,556.0	Miss Lime	5.0	Active	
7/26/2014	6,608.0	6,610.0	Miss Lime	5.0	Active	
7/26/2014	6,668.0	6,670.0	Miss Lime	5.0	Active	
7/26/2014	6,731.0	6,733.0	Miss Lime	5.0	Active	
7/26/2014	6,806.0	6,808.0	Miss Lime	5.0	Active	
7/26/2014	6,280.0	6,282.0	Miss Lime	5.0	Active	
7/26/2014	6,333.0	6,335.0	Miss Lime	5.0	Active	
7/26/2014	6,388.0	6,390.0	Miss Lime	5.0	Active	
7/26/2014	6,442.0	6,444.0	Miss Lime	5.0	Active	
7/26/2014	6,494.0	6,496.0	Miss Lime	5.0	Active	
7/26/2014	5,938.0	5,940.0	Miss Lime	5.0	Active	
7/26/2014	6,010.0	6,012.0	Miss Lime	5.0	Active	
7/26/2014	6,088.0	6,090.0	Miss Lime	5.0	Active	
7/26/2014	6,140.0	6,142.0	Miss Lime	5.0	Active	
7/26/2014	6,192.0	6,194.0	Miss Lime	5.0	Active	

Sandridge

Location Kansas Slot Murphy 3119 3-7H
 Field Sec 06 - 31S - 19W Well Murphy 3119 3-7H
 Installation Comanche County Wellbore Murphy 3119 3-7H (PWB)

Installation Data

Name	Latitude	Longitude	Northing	Easting
Comanche County	N37 22 1.43	W99 26 6.46	256388.00	1728232.00

Coordinate System Kansas State Planes, Southern Zone

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Murphy 3119 3-7H	248.62 N	1737.60 E	N37 22 4.06	W99 25 44.99	256636.62	1729969.56

Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
2185.00	-2173.00	12.00

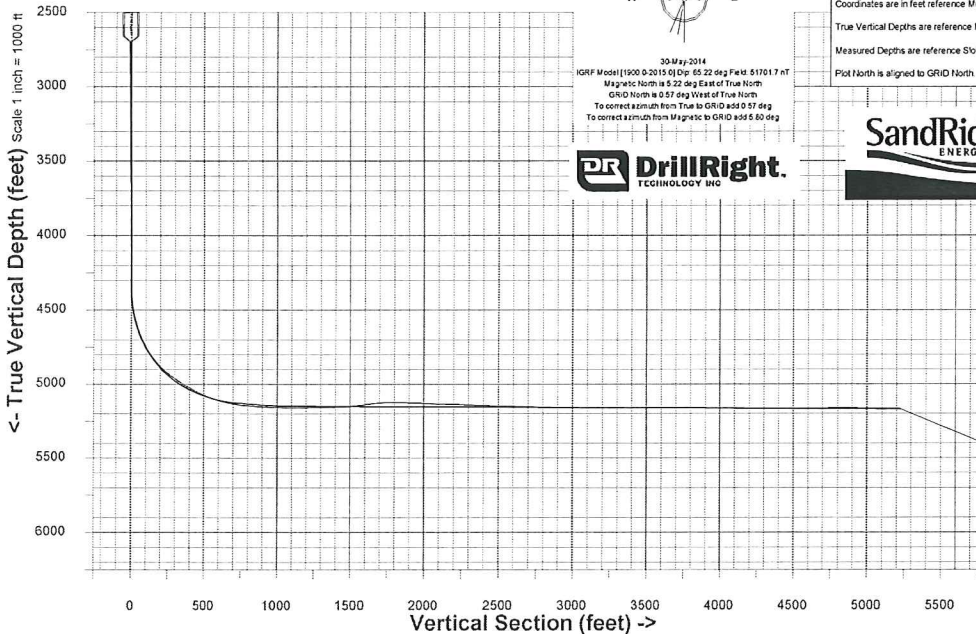
WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
KOP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Target KOP w/ 8" BRN	4375.30	0.00	154.67	4375.30	0.00	0.00	0.00	0.00
Target Build & Turn w/	5125.30	60.00	154.67	4995.55	-323.67	153.21	8.00	326.89
Target 250' Tangent	5579.63	86.00	181.55	5129.49	-742.14	233.97	8.00	747.00
Target Build w/ 10" BRN	5829.63	86.00	181.55	5146.93	-991.44	227.22	0.00	996.10
Target Landing Point	5866.63	89.70	181.55	5148.32	-1028.40	226.22	10.00	1033.02
T.D. & Target PBHL Murp	10068.56	89.70	181.55	5170.38	-5228.73	112.44	0.00	5229.94

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
4375.30	0.00	154.67	4375.30	0.00	-0.00	KOP w/ 8" BRN	1729969.56 East: 256636.62 North
5125.30	60.00	154.67	4995.55	-323.67	153.21	Build & Turn w/ 8" BRN	1730122.76 East: 256312.96 North
5579.63	86.00	181.55	5129.49	-742.14	233.97	250' Tangent	1730203.52 East: 255894.50 North
5829.63	86.00	181.55	5146.93	-991.44	227.22	Build w/ 10" BRN	1730196.78 East: 255645.20 North
5866.63	89.70	181.55	5148.32	-1028.40	226.22	Landing Point	1730195.78 East: 255608.24 North
10068.56	89.70	181.55	5170.38	-5228.73	112.44	PBHL Murphy 3119 3-7H	1730082.00 East: 251408.00 North

Target Line: 06-02-14
 5143' KBTVD @ 0' VS
 89.7° @ 178.77 AZI Plane

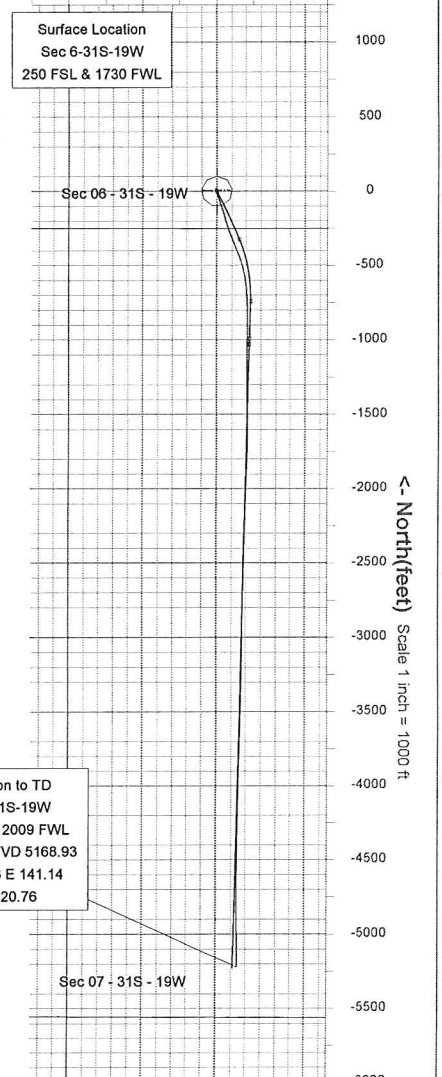


Azimuth 178.77 with reference 0.00 N, 0.00 E from Murphy 3119 3-7H
 Scale 1 inch = 1000 ft

East (feet) ->

Scale 1 inch = 1000 ft

-1000 -500 0 500



Projection to TD
 Sec 7-31S-19W
 340 FSL & 2009 FWL
 MD 10050 TVD 5168.93
 S 5218.93 E 141.14
 VS 5220.76

Company: Sandridge
Well Name: Murphy 3119 3-7H
Legals: Sec: 6 Township: 31S Range: 19W
County/State: Comanche KS
Rig Name: Horizon 4

Customer Rep	Position	Directional Driller	MWD Operator
Luis Garzu	Company Man	Bill Sneed	Tommy Lewis
Luis Solis	Company Man	Travis Hall	darryle davenport
		Jessie Loya	

Murphy 3119 3-7H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	1254.00	1.10	4.70	1253.92	12.00	0.99	-11.98	0.09	0.09	0.37	4.72	12.04
Survey	1506.00	0.90	343.00	1505.88	16.30	0.61	-16.28	0.17	0.08	8.61	2.14	16.31
Survey	1758.00	0.80	303.20	1757.85	19.16	-1.44	-19.19	0.23	0.04	15.79	355.70	19.21
Survey	2010.00	1.20	225.40	2009.83	18.27	-4.79	-18.37	0.51	0.16	30.87	345.31	18.89
Survey	2263.00	1.00	209.30	2262.78	14.48	-7.76	-14.64	0.14	0.08	6.36	331.81	16.43
Survey	2515.00	0.80	220.60	2514.75	11.23	-9.98	-11.44	0.11	0.08	4.48	318.37	15.02
Survey	2766.00	0.80	188.90	2765.73	8.17	-11.39	-8.41	0.17	0.00	12.63	305.65	14.02
Survey	3018.00	0.70	157.70	3017.71	5.01	-11.08	-5.25	0.16	0.04	12.38	294.33	12.16
Survey	3272.00	0.50	157.20	3271.70	2.55	-10.06	-2.77	0.08	0.08	0.20	284.22	10.38
Survey	3523.00	0.40	212.20	3522.69	0.80	-10.10	-1.02	0.17	0.04	21.91	274.53	10.13
Survey	3775.00	0.10	113.80	3774.69	-0.03	-10.37	-0.19	0.17	0.12	39.05	269.83	10.37
Survey	4028.00	0.60	107.50	4027.68	-0.52	-8.90	0.33	0.20	0.20	2.49	266.66	8.92
Survey	4310.00	0.10	258.80	4309.68	-1.01	-7.73	0.84	0.24	0.18	53.65	262.56	7.80
Survey	4373.00	1.30	153.20	4372.67	-1.66	-7.46	1.50	2.11	1.90	167.62	257.45	7.64
Survey	4405.00	3.50	163.80	4404.64	-2.92	-7.02	2.77	6.98	6.88	33.13	247.41	7.60
Survey	4436.00	5.90	156.80	4435.53	-5.30	-6.13	5.17	7.95	7.74	22.58	229.15	8.10
Survey	4468.00	8.10	152.50	4467.29	-8.81	-4.44	8.71	7.06	6.88	13.44	206.75	9.87
Survey	4500.00	10.50	153.00	4498.87	-13.41	-2.07	13.36	7.50	7.50	1.56	188.78	13.57
Survey	4532.00	13.30	153.40	4530.18	-19.30	0.90	19.31	8.75	8.75	1.25	177.33	19.32
Survey	4563.00	15.90	155.30	4560.17	-26.35	4.27	26.44	8.53	8.39	6.13	170.80	26.69
Survey	4594.00	17.30	159.20	4589.88	-34.51	7.68	34.67	5.77	4.52	12.58	167.45	35.35
Survey	4626.00	19.40	161.90	4620.25	-44.01	11.02	44.24	7.08	6.56	8.44	165.94	45.37
Survey	4658.00	21.60	162.80	4650.22	-54.69	14.41	54.99	6.95	6.88	2.81	165.24	56.56
Survey	4689.00	24.80	161.60	4678.71	-66.31	18.15	66.68	10.43	10.32	3.87	164.69	68.75
Survey	4721.00	27.30	163.20	4707.46	-79.71	22.39	80.17	8.11	7.81	5.00	164.31	82.79
Survey	4752.00	29.00	163.80	4734.79	-93.73	26.54	94.28	5.56	5.48	1.94	164.19	97.42
Survey	4784.00	31.10	162.60	4762.49	-109.07	31.18	109.71	6.83	6.56	3.75	164.05	113.44
Survey	4815.00	34.20	162.70	4788.59	-125.03	36.17	125.78	10.00	10.00	0.32	163.87	130.16
Survey	4847.00	37.40	164.00	4814.54	-142.96	41.52	143.82	10.28	10.00	4.06	163.81	148.87
Survey	4879.00	40.40	164.50	4839.44	-162.30	46.97	163.27	9.43	9.37	1.56	163.86	168.96
Survey	4911.00	43.80	163.70	4863.18	-182.93	52.85	184.02	10.76	10.63	2.50	163.89	190.41
Survey	4942.00	46.50	163.50	4885.04	-204.01	59.06	205.23	8.72	8.71	0.65	163.85	212.39
Survey	4974.00	49.70	162.20	4906.41	-226.76	66.08	228.13	10.45	10.00	4.06	163.75	236.19
Survey	5005.00	52.80	160.30	4925.81	-249.65	73.86	251.18	11.08	10.00	6.13	163.52	260.35
Survey	5037.00	55.10	157.70	4944.64	-273.80	83.14	275.52	9.74	7.19	8.13	163.11	286.14
Survey	5066.00	58.00	157.80	4960.62	-296.19	92.30	298.10	10.00	10.00	0.34	162.69	310.24
Survey	5100.00	59.20	158.40	4978.34	-323.12	103.12	325.26	3.84	3.53	1.76	162.30	339.18
Survey	5131.00	59.50	158.20	4994.14	-347.90	112.98	350.25	1.12	0.97	0.65	162.01	365.79
Survey	5162.00	60.30	157.90	5009.69	-372.77	123.01	375.32	2.71	2.58	0.97	161.74	392.54
Survey	5194.00	62.50	156.50	5025.01	-398.67	133.89	401.45	7.88	6.88	4.38	161.44	420.55

Murphy 3119 3-7H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	5225.00	64.50	155.90	5038.84	-424.05	145.09	427.07	6.68	6.45	1.94	161.11	448.18
Survey	5256.00	65.80	157.60	5051.87	-449.90	156.19	453.15	6.51	4.19	5.48	160.85	476.24
Survey	5288.00	67.30	160.40	5064.60	-477.30	166.71	480.77	9.30	4.69	8.75	160.75	505.58
Survey	5319.00	66.90	163.30	5076.67	-504.43	175.60	508.08	8.71	1.29	9.35	160.81	534.12
Survey	5351.00	68.90	166.20	5088.71	-533.03	183.39	536.84	10.47	6.25	9.06	161.01	563.70
Survey	5382.00	71.00	168.10	5099.34	-561.42	189.86	565.37	8.89	6.77	6.13	161.32	592.65
Survey	5414.00	74.20	169.50	5108.90	-591.37	195.79	595.44	10.84	10.00	4.37	161.68	622.94
Survey	5445.00	76.60	171.20	5116.72	-620.94	200.82	625.11	9.39	7.74	5.48	162.08	652.61
Survey	5477.00	78.60	173.60	5123.59	-651.92	204.95	656.17	9.63	6.25	7.50	162.55	683.38
Survey	5508.00	79.10	174.10	5129.58	-682.16	208.21	686.47	2.26	1.61	1.61	163.03	713.23
Survey	5540.00	81.00	175.50	5135.11	-713.55	211.06	717.92	7.34	5.94	4.38	163.52	744.11
Survey	5572.00	82.10	178.10	5139.82	-745.15	212.83	749.55	8.74	3.44	8.13	164.06	774.95
Survey	5604.00	83.70	179.60	5143.77	-776.89	213.47	781.29	6.83	5.00	4.69	164.64	805.68
Survey	5635.00	84.90	180.00	5146.85	-807.74	213.58	812.14	4.08	3.87	1.29	165.19	835.50
Survey	5667.00	85.80	180.70	5149.45	-839.63	213.38	844.02	3.56	2.81	2.19	165.74	866.32
Survey	5698.00	85.90	180.80	5151.69	-870.55	212.98	874.92	0.46	0.32	0.32	166.25	896.22
Survey	5730.00	85.90	180.50	5153.98	-902.47	212.62	906.83	0.94	0.00	0.94	166.74	927.18
Survey	5761.00	86.80	180.50	5155.95	-933.40	212.35	937.74	2.90	2.90	0.00	167.18	957.25
Survey	5793.00	87.30	180.20	5157.60	-965.36	212.15	969.69	1.82	1.56	0.94	167.61	988.40
Survey	5824.00	87.40	180.20	5159.03	-996.33	212.04	1000.65	0.32	0.32	0.00	167.99	1018.64
Survey	5844.00	88.00	180.60	5159.84	-1016.31	211.90	1020.62	3.60	3.00	2.00	168.22	1038.17
Survey	5953.00	90.80	180.30	5160.98	-1125.29	211.04	1129.56	2.58	2.57	0.28	169.38	1144.91
Survey	6045.00	91.10	180.10	5159.45	-1217.28	210.72	1221.52	0.39	0.33	0.22	170.18	1235.38
Survey	6136.00	91.30	179.80	5157.55	-1308.26	210.80	1312.48	0.40	0.22	0.33	170.85	1325.13
Survey	6226.00	91.60	179.60	5155.27	-1398.23	211.27	1402.44	0.40	0.33	0.22	171.41	1414.10
Survey	6318.00	94.20	179.10	5150.61	-1490.10	212.31	1494.31	2.88	2.83	0.54	171.89	1505.15
Survey	6378.00	97.50	179.00	5144.50	-1549.77	213.30	1553.99	5.50	5.50	0.17	172.16	1564.38
Survey	6408.00	99.10	179.80	5140.17	-1579.45	213.61	1583.67	5.95	5.33	2.67	172.30	1593.83
Survey	6439.00	97.50	180.00	5135.69	-1610.13	213.66	1614.35	5.20	5.16	0.65	172.44	1624.24
Survey	6470.00	95.60	180.30	5132.16	-1640.93	213.58	1645.14	6.20	6.13	0.97	172.58	1654.77
Survey	6500.00	94.00	180.60	5129.65	-1670.82	213.34	1675.01	5.43	5.33	1.00	172.72	1684.39
Survey	6530.00	94.00	181.00	5127.56	-1700.74	212.93	1704.92	1.33	0.00	1.33	172.86	1714.02
Survey	6561.00	92.90	180.90	5125.69	-1731.68	212.42	1735.84	3.56	3.55	0.32	173.01	1744.66
Survey	6592.00	91.50	181.70	5124.50	-1762.65	211.71	1766.79	5.20	4.52	2.58	173.15	1775.32
Survey	6623.00	90.00	182.10	5124.09	-1793.63	210.69	1797.74	5.01	4.84	1.29	173.30	1805.96
Survey	6654.00	88.40	182.30	5124.53	-1824.60	209.50	1828.68	5.20	5.16	0.65	173.45	1836.59
Survey	6686.00	87.90	182.50	5125.56	-1856.56	208.16	1860.60	1.68	1.56	0.63	173.60	1868.19
Survey	6717.00	87.80	182.30	5126.72	-1887.51	206.86	1891.52	0.72	0.32	0.65	173.75	1898.81
Survey	6748.00	87.80	182.30	5127.91	-1918.46	205.62	1922.43	0.00	0.00	0.00	173.88	1929.45
Survey	6780.00	87.80	182.20	5129.14	-1950.41	204.36	1954.35	0.31	0.00	0.31	174.02	1961.09
Survey	6811.00	87.90	182.30	5130.30	-1981.37	203.15	1985.27	0.46	0.32	0.32	174.15	1991.76
Survey	6843.00	88.00	182.30	5131.45	-2013.32	201.87	2017.19	0.31	0.31	0.00	174.27	2023.42
Survey	6875.00	88.20	182.20	5132.51	-2045.28	200.61	2049.12	0.70	0.63	0.31	174.40	2055.09
Survey	6906.00	87.60	181.90	5133.65	-2076.24	199.50	2080.04	2.16	1.94	0.97	174.51	2085.80
Survey	6937.00	87.60	182.00	5134.94	-2107.20	198.45	2110.97	0.32	0.00	0.32	174.62	2116.52
Survey	6969.00	87.80	182.10	5136.23	-2139.15	197.31	2142.89	0.70	0.63	0.31	174.73	2148.23
Survey	7001.00	87.90	182.10	5137.43	-2171.11	196.13	2174.82	0.31	0.31	0.00	174.84	2179.95
Survey	7032.00	87.90	182.20	5138.57	-2202.07	194.97	2205.75	0.32	0.00	0.32	174.94	2210.68

Murphy 3119 3-7H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	7063.00	88.00	182.30	5139.67	-2233.03	193.75	2236.67	0.46	0.32	0.32	175.04	2241.42
Survey	7095.00	88.10	182.00	5140.76	-2264.99	192.55	2268.60	0.99	0.31	0.94	175.14	2273.16
Survey	7126.00	88.20	182.30	5141.76	-2295.95	191.39	2299.53	1.02	0.32	0.97	175.23	2303.91
Survey	7158.00	88.40	182.30	5142.71	-2327.91	190.11	2331.45	0.63	0.63	0.00	175.33	2335.66
Survey	7189.00	87.90	181.90	5143.71	-2358.87	188.97	2362.38	2.07	1.61	1.29	175.42	2366.43
Survey	7221.00	87.90	181.70	5144.89	-2390.84	187.97	2394.32	0.62	0.00	0.63	175.50	2398.22
Survey	7252.00	88.10	181.80	5145.97	-2421.80	187.02	2425.26	0.72	0.65	0.32	175.58	2429.01
Survey	7315.00	88.10	181.70	5148.06	-2484.74	185.10	2488.14	0.16	0.00	0.16	175.74	2491.62
Survey	7377.00	88.00	181.50	5150.17	-2546.68	183.37	2550.03	0.36	0.16	0.32	175.88	2553.27
Survey	7440.00	88.80	181.50	5151.93	-2609.63	181.72	2612.93	1.27	1.27	0.00	176.02	2615.95
Survey	7502.00	88.10	180.70	5153.60	-2671.60	180.53	2674.86	1.71	1.13	1.29	176.13	2677.69
Survey	7565.00	88.90	180.90	5155.25	-2734.57	179.65	2737.80	1.31	1.27	0.32	176.24	2740.46
Survey	7628.00	89.00	180.80	5156.41	-2797.55	178.72	2800.74	0.22	0.16	0.16	176.34	2803.25
Survey	7691.00	89.10	180.50	5157.45	-2860.54	178.01	2863.70	0.50	0.16	0.48	176.44	2866.07
Survey	7754.00	89.40	180.40	5158.28	-2923.53	177.51	2926.67	0.50	0.48	0.16	176.53	2928.91
Survey	7816.00	89.60	180.40	5158.82	-2985.53	177.08	2988.64	0.32	0.32	0.00	176.61	2990.78
Survey	7878.00	89.40	180.50	5159.36	-3047.52	176.59	3050.61	0.36	0.32	0.16	176.68	3052.63
Survey	7974.00	89.60	181.80	5160.20	-3143.49	174.66	3146.51	1.37	0.21	1.35	176.82	3148.34
Survey	8068.00	89.30	181.50	5161.10	-3237.45	171.96	3240.40	0.45	0.32	0.32	176.96	3242.01
Survey	8163.00	89.80	180.90	5161.84	-3332.42	169.97	3335.30	0.82	0.53	0.63	177.08	3336.75
Survey	8257.00	90.60	180.80	5161.52	-3426.41	168.57	3429.24	0.86	0.85	0.11	177.18	3430.55
Survey	8352.00	90.10	181.90	5160.94	-3521.38	166.33	3524.14	1.27	0.53	1.16	177.30	3525.31
Survey	8446.00	90.10	182.10	5160.77	-3615.32	163.05	3617.99	0.21	0.00	0.21	177.42	3618.99
Survey	8540.00	90.40	182.00	5160.36	-3709.26	159.69	3711.83	0.34	0.32	0.11	177.53	3712.70
Survey	8635.00	89.20	182.00	5160.69	-3804.20	156.37	3806.68	1.26	1.26	0.00	177.65	3807.41
Survey	8729.00	89.20	181.70	5162.00	-3898.14	153.34	3900.53	0.32	0.00	0.32	177.75	3901.15
Survey	8824.00	89.10	181.20	5163.41	-3993.10	150.94	3995.42	0.54	0.11	0.53	177.84	3995.95
Survey	8919.00	89.40	180.40	5164.65	-4088.08	149.61	4090.35	0.90	0.32	0.84	177.90	4090.82
Survey	9014.00	90.30	180.30	5164.90	-4183.08	149.03	4185.32	0.95	0.95	0.11	177.96	4185.73
Survey	9109.00	89.10	181.30	5165.40	-4278.07	147.70	4280.25	1.64	1.26	1.05	178.02	4280.62
Survey	9203.00	89.70	181.20	5166.38	-4372.04	145.65	4374.16	0.65	0.64	0.11	178.09	4374.47
Survey	9298.00	89.50	180.80	5167.04	-4467.02	143.99	4469.08	0.47	0.21	0.42	178.15	4469.34
Survey	9392.00	90.30	180.80	5167.20	-4561.01	142.68	4563.02	0.85	0.85	0.00	178.21	4563.24
Survey	9487.00	90.80	180.40	5166.29	-4656.00	141.69	4657.97	0.67	0.53	0.42	178.26	4658.16
Survey	9581.00	90.40	181.10	5165.31	-4749.99	140.46	4751.91	0.86	0.43	0.74	178.31	4752.07
Survey	9675.00	90.60	179.50	5164.49	-4843.98	139.97	4845.87	1.72	0.21	1.70	178.34	4846.00
Survey	9769.00	88.90	180.10	5164.90	-4937.97	140.30	4939.84	1.92	1.81	0.64	178.37	4939.96
Survey	9864.00	89.50	179.00	5166.23	-5032.96	141.05	5034.83	1.32	0.63	1.16	178.39	5034.94
Survey	9958.00	89.70	180.30	5166.89	-5126.95	141.62	5128.81	1.40	0.21	1.38	178.42	5128.91
Survey	10005.00	88.40	180.30	5167.67	-5173.95	141.38	5175.79	2.77	2.77	0.00	178.43	5175.88
PrjCalcPnt	10050	88.4	180.3	5168.93	-5218.93	141.14	5220.76	0	0	0	178.45	5220.84



SandRidge Energy
Murphy #3119 3-7H
Comanche County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Murphy # 3119 3-7H Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3500 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 224.75 of fresh water. The plug bumped and pressured up to 1300 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy
Murphy #3119 3-7H
Comanche County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Murphy #3119 3-7H Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

120 Bbls (360 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend - 1.87 Yield
6.0% Gel
2.0%cc
¼# Floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry:
Class A - 1.20 Yield
2.0%cc
¼# Floseal

The top plug was then released and displaced with 78 Bbls of fresh water. The plug bumped and pressured up to 800 psi. Pressure was released and floats held. Cement did Circulate.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/24/2014
Job End Date:	8/26/2014
State:	Kansas
County:	Comanche
API Number:	15-033-21762-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Murphy 3119 3-7H
Longitude:	-99.42916400
Latitude:	37.36779400
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,560
Total Base Water Volume (gal):	1,860,000
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	93.97438	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.71213	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.17435	None
			Methyl Alcohol	67-56-1	80.00000	0.00141	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00026	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00752	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00076	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00313	None
			Citric Acid	77-92-9	30.00000	0.00188	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.07071	

		Aliphatic Hydrocarbon	64742-47-8		0.03536
		Anionic Polymer	N/A		0.03536
		Water	7732-18-5		0.01595
		Polyol Ester	N/A		0.00589
		Oxyalkylated Alcohol	68002-97-1		0.00589
		Sodium Salt of Phosphate Ester	68131-72-6		0.00266
		Acrylic Polymer	28205-96-1		0.00266
		Water	7732-18-5		0.00219
		Polyglycol Ester	N/A		0.00118
		Alcohol Ethoxylate Surfactants	N/A		0.00026
		n-olefins	N/A		0.00014
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00012
		Propargyl Alcohol	107-19-7		0.00011
		Acetic Acid	64-19-7		
		ISOPROPANOL	67-63-0		
		Cinnamic Aldehyde	104-55-2		
		Surfactant	N/A		
		WATER	7732-18-5		
		Water	7732-18-5		
		TRADE SECRET	N/A		
		Buffer	N/A		
		METHANOL	67-56-1		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)