



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1262955
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: _____



1262955

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
8926.0	88.80	357.80	4722.8	4426.2	-128.8	0.00	0.00	4427.5	Start DLS 12.00 TFO 240.00
8981.0	85.51	352.07	4725.5	4480.9	-133.6	12.00	240.00	4482.2	Start DLS 0.00 TFO 171.16
9051.0	85.51	352.07	4731.0	4550.0	-143.3	0.00	171.16	4551.5	Start DLS 4.00 TFO 48.82
9325.1	92.75	0.31	4735.2	4823.0	-161.4	4.00	48.82	4824.7	Start 300.0 hold at 9325.1 MD
9625.1	92.75	0.31	4720.8	5122.7	-159.8	0.00	0.00	5124.4	Start DLS 2.00 TFO 180.00
9747.6	90.30	0.31	4717.5	5245.1	-159.1	2.00	180.00	5246.8	Start DLS 0.00 TFO 97.00
14477.6	90.30	0.32	4692.8	9975.0	-133.0	0.00	97.00	9975.9	TD at 14477.6

WELL DETAILS: LeForce 3408 1-11H2

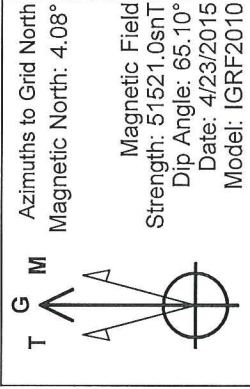
Ground Level:	1376.0
Northing	156006.00
Easting	2101948.00
Latitude	37° 5' 40.520 N
Longitude	98° 9' 1.762 W

Project: Harper County (NAD-27)

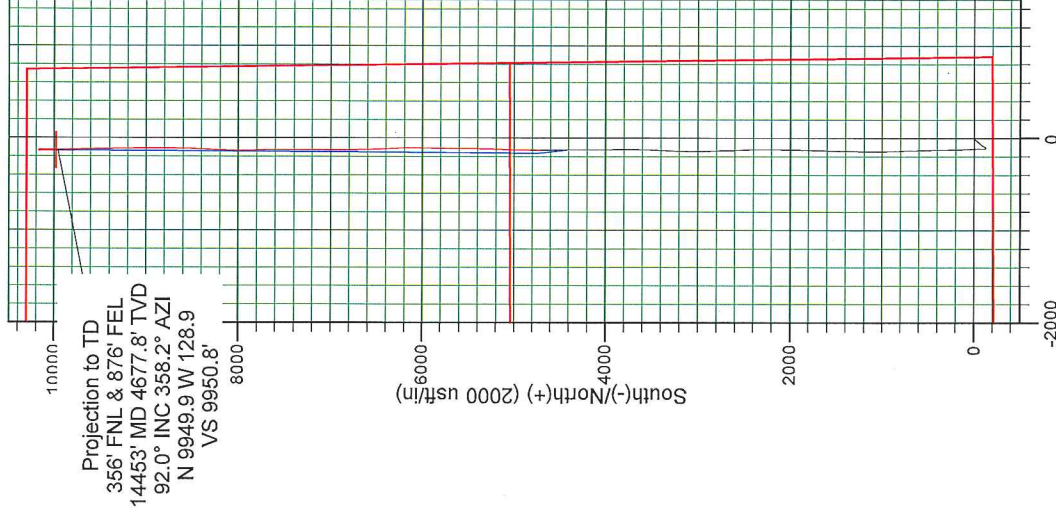
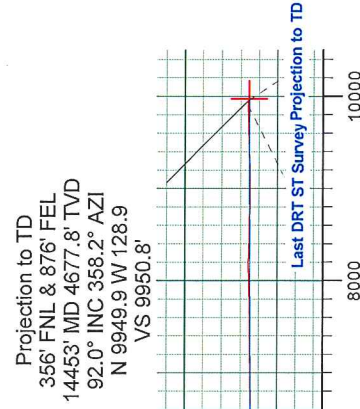
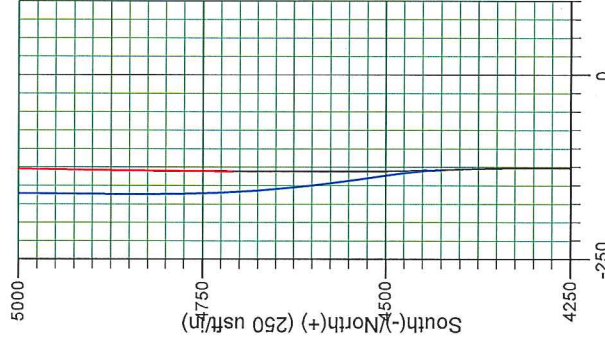
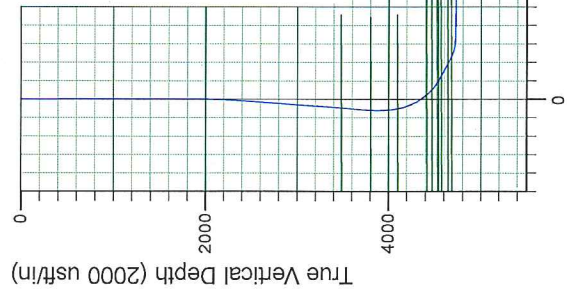
Site: Sec 11-T34S-R08W

Well: LeForce 3408 1-11H2

Plan: Plan 051515 A2 ST1 (LeForce 3408 1-11H2/Wellbore #1)



Target Line: 5-15-15
 4735 KBTVD @ 0' VS
 90.3° @ 359.24 AZI Plane



Projection to TD
 356' FNL & 876' FEL
 14453' MD 4677.8' TVD
 92.0° INC 358.2° AZI
 N 9949.9 W 128.9
 VS 9950.8'

Projection to TD
 356' FNL & 876' FEL
 14453' MD 4677.8' TVD
 92.0° INC 358.2° AZI
 N 9949.9 W 128.9
 VS 9950.8'

Vertical Section at 359.24° (2000 usft/in)

Last DRT ST Survey Projection to TD

Company:	Sandridge	Customer Rep	Position	Directional Driller	MWD Operator
Well Name:	LeForce 3408 1-11H2	Eric Beemer	Engineer	John Sartori	Jerry Wilkins
Legals:	Sec: 11 Township: 34S Range: 08W	Brian Ehrenberg Sr.	Company Man	Scott Graham	Charlie Minyard
County/State:	Harper KS				
Rig Name:	Lariat 20				

LeForce 1-11H2 Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0	0	0	0	0	0	0	0	0	0	0	0
Survey	800	0.4	340.4	799.99	2.63	-0.94	2.64	0.05	0.05	2.45	340.33	2.79
Survey	1166	0.1	283.7	1165.99	3.91	-1.68	3.93	0.1	0.08	15.49	336.75	4.26
Survey	1530	0.2	125	1529.99	3.62	-1.46	3.64	0.08	0.03	43.6	338.04	3.9
Survey	1895	0.1	308.3	1894.99	3.45	-1.19	3.47	0.08	0.03	48.41	340.97	3.65
Survey	1986	0.2	326.4	1985.99	3.63	-1.34	3.65	0.12	0.11	19.89	339.74	3.87
Survey	2078	2.3	218.5	2077.96	2.32	-2.58	2.35	2.58	2.28	117.28	311.96	3.47
Survey	2169	4.5	226.6	2168.8	-1.56	-6.31	-1.48	2.47	2.42	8.9	256.11	6.5
Survey	2260	5.8	222.5	2259.43	-7.4	-12.01	-7.24	1.48	1.43	4.51	238.36	14.11
Survey	2351	5.2	220.7	2350.01	-13.92	-17.81	-13.68	0.69	0.66	1.98	231.99	22.6
Survey	2443	4.5	218.9	2441.68	-19.89	-22.79	-19.59	0.78	0.76	1.96	228.89	30.25
Survey	2535	5.4	221.6	2533.34	-25.93	-27.93	-25.56	1.01	0.98	2.93	227.13	38.11
Survey	2628	4.5	223.2	2625.99	-31.87	-33.34	-31.42	0.98	0.97	1.72	226.29	46.12
Survey	2719	6.3	224.8	2716.58	-38.01	-39.3	-37.49	1.98	1.98	1.76	225.96	54.67
Survey	2811	6.1	220.2	2808.04	-45.33	-46.01	-44.72	0.58	0.22	5	225.43	64.59
Survey	2902	5.5	220.9	2898.58	-52.32	-51.99	-51.63	0.66	0.66	0.77	224.82	73.76
Survey	2994	4.9	224.1	2990.2	-58.47	-57.61	-57.7	0.72	0.65	3.48	224.58	82.08
Survey	3085	5.4	214.2	3080.83	-64.8	-62.72	-63.96	1.12	0.55	10.88	224.07	90.18
Survey	3176	5	215.1	3171.46	-71.59	-67.41	-70.69	0.45	0.44	0.99	223.28	98.33
Survey	3268	4.3	218.8	3263.16	-77.56	-71.87	-76.6	0.83	0.76	4.02	222.82	105.74
Survey	3359	5.3	220.9	3353.83	-83.39	-76.76	-82.36	1.12	1.1	2.31	222.63	113.34
Survey	3450	5.1	211.7	3444.46	-90.01	-81.64	-88.92	0.94	0.22	10.11	222.21	121.52
Survey	3542	6.5	210	3535.99	-98	-86.39	-96.85	1.53	1.52	1.85	221.4	130.64
Survey	3633	4.4	208.3	3626.57	-105.54	-90.62	-104.33	2.31	2.31	1.87	220.65	139.11
Survey	3724	5.1	201.6	3717.26	-112.37	-93.76	-111.12	0.98	0.77	7.36	219.84	146.35
Survey	3815	4.7	211.9	3807.93	-119.3	-97.22	-118	1.06	0.44	11.32	219.18	153.9
Survey	3876	4.5	244.7	3868.74	-122.44	-100.71	-121.09	4.27	0.33	53.77	219.44	158.54
Survey	3907	5.5	273.7	3899.63	-122.86	-103.29	-121.48	8.65	3.23	93.55	220.05	160.51
Survey	3937	6.7	292	3929.46	-122.12	-106.35	-120.7	7.57	4	61	221.05	161.94
Survey	3967	7.2	311	3959.25	-120.23	-109.39	-118.77	7.8	1.67	63.33	222.3	162.55
Survey	3998	7.6	327	3989.99	-117.23	-111.97	-115.73	6.75	1.29	51.61	223.69	162.11
Survey	4028	7.3	346.6	4019.74	-113.71	-113.5	-112.19	8.49	1	65.33	224.95	160.66
Survey	4059	8	356.5	4050.47	-109.64	-114.09	-108.12	4.81	2.26	31.94	226.14	158.23
Survey	4089	9.1	359.5	4080.13	-105.19	-114.24	-103.67	3.96	3.67	10	227.36	155.29
Survey	4119	10.7	359.7	4109.69	-100.03	-114.27	-98.51	5.33	5.33	0.67	228.8	151.87
Survey	4150	12.5	1.1	4140.05	-93.8	-114.22	-92.28	5.88	5.81	4.52	230.61	147.8
Survey	4180	15.3	1.5	4169.17	-86.59	-114.05	-85.07	9.34	9.33	1.33	232.79	143.2
Survey	4211	18.8	0.8	4198.8	-77.51	-113.88	-75.99	11.31	11.29	2.26	235.76	137.76
Survey	4242	22.4	359.6	4227.82	-66.6	-113.85	-65.08	11.69	11.61	3.87	239.67	131.9
Survey	4272	25.5	358.4	4255.23	-54.43	-114.07	-52.91	10.46	10.33	4	244.49	126.39
Survey	4302	27.6	357.4	4282.07	-41.03	-114.56	-39.51	7.16	7	3.33	250.29	121.69
Survey	4332	30.1	356.6	4308.34	-26.58	-115.32	-25.05	8.43	8.33	2.67	257.02	118.34
Survey	4363	32.9	356.3	4334.77	-10.41	-116.33	-8.87	9.05	9.03	0.97	264.89	116.79
Survey	4393	35.6	356.2	4359.57	6.43	-117.43	7.99	9	9	0.33	273.13	117.61
Survey	4423	38.3	356.2	4383.54	24.43	-118.63	26	9	9	0	281.64	121.12
Survey	4453	40.7	356.2	4406.69	43.47	-119.89	45.06	8	8	0	289.93	127.53
Survey	4484	43.5	357.6	4429.68	64.22	-121.01	65.82	9.53	9.03	4.52	297.95	136.99
Survey	4515	46.3	358.8	4451.64	86.08	-121.69	87.69	9.44	9.03	3.87	305.27	149.06
Survey	4545	49.2	359.1	4471.81	108.28	-122.1	109.89	9.69	9.67	1	311.57	163.2
Survey	4575	52.3	359.3	4490.79	131.51	-122.42	133.12	10.35	10.33	0.67	317.05	179.67
Survey	4606	55.7	358.8	4509.01	156.58	-122.84	158.2	11.05	10.97	1.61	321.89	199.01
Survey	4636	59.1	358.6	4525.17	181.84	-123.41	183.46	11.35	11.33	0.67	325.84	219.76
Survey	4697	62.6	359.5	4554.88	235.1	-124.29	236.73	5.88	5.74	1.48	332.14	265.93
Survey	4727	62.4	358.7	4568.73	261.71	-124.71	263.34	2.46	0.67	2.67	334.52	289.9
Survey	4819	61.3	358.7	4612.13	342.81	-126.55	344.46	1.2	1.2	0	339.74	365.42
Survey	4849	61	358.1	4626.61	369.07	-127.28	370.73	2.02	1	2	340.97	390.4
Survey	4880	61.6	358.4	4641.5	396.25	-128.11	397.91	2.11	1.94	0.97	342.08	416.44
Survey	4910	62.9	359.6	4655.46	422.79	-128.58	424.46	5.6	4.33	4	343.08	441.91
Survey	4941	64.5	0.2	4669.2	450.58	-128.62	452.25	5.45	5.16	1.94	344.07	468.58
Survey	4971	67.9	0.3	4681.3	478.03	-128.5	479.69	11.34	11.33	0.33	344.95	495
Survey	5002	71.6	359.7	4692.03	507.11	-128.5	508.77	12.07	11.94	1.94	345.78	523.14
Survey	5032	75.3	359	4700.58	535.86	-128.83	537.52	12.53	12.33	2.33	346.48	551.13

LeForce 1-11H2 Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	5063	78.1	358.7	4707.71	566.02	-129.44	567.69	9.08	9.03	0.97	347.12	580.63
Survey	5093	80.8	358.5	4713.2	595.5	-130.16	597.17	9.02	9	0.67	347.67	609.56
Survey	5124	84	358.1	4717.3	626.21	-131.07	627.89	10.4	10.32	1.29	348.18	639.78
Survey	5177	88.8	357.8	4720.63	679.05	-132.96	680.75	9.07	9.06	0.57	348.92	691.94
Survey	5239	90.2	357	4721.17	740.98	-135.77	742.72	2.6	2.26	1.29	349.62	753.32
Survey	5333	89.2	357.2	4721.66	834.86	-140.53	836.65	1.08	1.06	0.21	350.45	846.6
Survey	5428	89.2	359.3	4722.99	929.8	-143.43	931.62	2.21	0	2.21	351.23	940.8
Survey	5523	89	359.3	4724.48	1024.78	-144.59	1026.61	0.21	0.21	0	351.97	1034.93
Survey	5617	90.3	0.9	4725.06	1118.77	-144.43	1120.59	2.19	1.38	1.7	352.64	1128.05
Survey	5712	89.6	0.2	4725.14	1213.76	-143.52	1215.56	1.04	0.74	0.74	353.26	1222.22
Survey	5807	89.1	0.4	4726.22	1308.76	-143.02	1310.54	0.57	0.53	0.21	353.76	1316.55
Survey	5901	88.6	0.9	4728.11	1402.73	-141.95	1404.49	0.75	0.53	0.53	354.22	1409.89
Survey	5996	89.9	0.5	4729.35	1497.71	-140.79	1499.45	1.43	1.37	0.42	354.63	1504.31
Survey	6090	90.9	1.8	4728.69	1591.69	-138.9	1593.39	1.74	1.06	1.38	355.01	1597.74
Survey	6185	93	2.5	4725.46	1686.56	-135.34	1688.21	2.33	2.21	0.74	355.41	1691.98
Survey	6280	91.8	0.6	4721.48	1781.44	-132.77	1783.04	2.36	1.26	2	355.74	1786.38
Survey	6374	89.4	2.4	4720.5	1875.39	-130.31	1876.95	3.19	2.55	1.91	356.03	1879.91
Survey	6468	91	2.2	4720.17	1969.31	-126.54	1970.82	1.72	1.7	0.21	356.32	1973.37
Survey	6563	90.3	359.3	4719.09	2064.29	-125.3	2065.77	3.14	0.74	3.05	356.53	2068.09
Survey	6658	90.4	1.2	4718.51	2159.28	-124.88	2160.75	2	0.11	2	356.69	2162.89
Survey	6752	90.3	0.6	4717.94	2253.26	-123.41	2254.7	0.65	0.11	0.64	356.87	2256.64
Survey	6847	90.7	1.1	4717.11	2348.25	-122	2349.66	0.67	0.42	0.53	357.03	2351.42
Survey	6942	90.1	357.2	4716.45	2443.21	-123.41	2444.63	4.15	0.63	4.11	357.11	2446.32
Survey	7036	89	357	4717.19	2537.09	-128.17	2538.57	1.19	1.17	0.21	357.11	2540.33
Survey	7131	91.3	357.7	4716.94	2631.98	-132.56	2633.51	2.53	2.42	0.74	357.12	2635.32
Survey	7225	90.4	358.2	4715.55	2725.91	-135.92	2727.47	1.1	0.96	0.53	357.15	2729.3
Survey	7319	90	358.3	4715.22	2819.86	-138.79	2821.45	0.44	0.43	0.11	357.18	2823.27
Survey	7414	89.4	358.5	4715.72	2914.82	-141.44	2916.44	0.67	0.63	0.21	357.22	2918.25
Survey	7508	91.2	359.1	4715.23	3008.79	-143.41	3010.43	2.02	1.91	0.64	357.27	3012.21
Survey	7602	91.2	1.2	4713.26	3102.76	-143.16	3104.39	2.23	0	2.23	357.36	3106.06
Survey	7697	89.5	2.1	4712.68	3197.72	-140.43	3199.3	2.02	1.79	0.95	357.49	3200.8
Survey	7792	89	2.5	4713.92	3292.63	-136.62	3294.15	0.67	0.53	0.42	357.62	3295.46
Survey	7886	90.4	1.7	4714.42	3386.57	-133.17	3388.04	1.72	1.49	0.85	357.75	3389.19
Survey	7981	90.4	2.1	4713.75	3481.52	-130.02	3482.94	0.42	0	0.42	357.86	3483.95
Survey	8076	90.1	1.3	4713.34	3576.47	-127.21	3577.84	0.9	0.32	0.84	357.96	3578.73
Survey	8171	88.9	0.5	4714.17	3671.45	-125.71	3672.79	1.52	1.26	0.84	358.04	3673.6
Survey	8265	90.2	0.1	4714.91	3765.44	-125.22	3766.77	1.45	1.38	0.43	358.1	3767.52
Survey	8359	89	0.2	4715.56	3859.44	-124.98	3860.76	1.28	1.28	0.11	358.15	3861.46
Survey	8454	90	359.5	4716.39	3954.43	-125.22	3955.74	1.28	1.05	0.74	358.19	3956.41
Survey	8548	91.3	358.5	4715.32	4048.41	-126.86	4049.74	1.74	1.38	1.06	358.21	4050.4
Survey	8643	90.9	0.9	4713.5	4143.38	-127.36	4144.7	2.56	0.42	2.53	358.24	4145.34
Survey	8737	86.8	0.4	4715.39	4237.33	-126.29	4238.63	4.39	4.36	0.53	358.29	4239.21
Survey	8831	87.7	359.4	4719.9	4331.22	-126.46	4332.52	1.43	0.96	1.06	358.33	4333.07
Survey	8926	88.8	357.8	4722.8	4426.15	-128.78	4427.47	2.04	1.16	1.68	358.33	4428.02
Survey	9021	89.4	359.6	4724.29	4521.11	-130.93	4522.45	2	0.63	1.89	358.34	4523.01
Survey	9115	91.9	0.4	4723.23	4615.1	-130.93	4616.43	2.79	2.66	0.85	358.37	4616.96
Survey	9210	91.5	0.1	4720.41	4710.05	-130.52	4711.37	0.53	0.42	0.32	358.41	4711.86
Survey	9305	91.6	0.7	4717.84	4805.01	-129.86	4806.31	0.64	0.11	0.63	358.45	4806.76
Survey	9400	92.3	0.5	4714.61	4899.95	-128.86	4901.23	0.77	0.74	0.21	358.49	4901.64
Survey	9494	89.3	1.4	4713.3	4993.92	-127.3	4995.17	3.33	3.19	0.96	358.54	4995.54
Survey	9589	90	2.8	4713.88	5088.85	-123.82	5090.04	1.65	0.74	1.47	358.61	5090.36
Survey	9683	88.8	2.3	4714.86	5182.75	-119.64	5183.88	1.38	1.28	0.53	358.68	5184.13
Survey	9778	89.7	1.8	4716.1	5277.68	-116.24	5278.76	1.08	0.95	0.53	358.74	5278.96
Survey	9873	90.9	2	4715.61	5372.62	-113.09	5373.65	1.28	1.26	0.21	358.79	5373.81
Survey	9967	90.8	0	4714.21	5466.6	-111.45	5467.6	2.13	0.11	2.13	358.83	5467.74
Survey	10061	91.7	0.2	4712.16	5560.57	-111.29	5561.56	0.98	0.96	0.21	358.85	5561.68
Survey	10156	90.7	359.7	4710.17	5655.55	-111.37	5656.53	1.18	1.05	0.53	358.87	5656.65
Survey	10248	89.9	0.4	4709.69	5747.55	-111.29	5748.52	1.16	0.87	0.76	358.89	5748.63
Survey	10340	90.4	0.4	4709.45	5839.55	-110.65	5840.5	0.54	0.54	0	358.91	5840.6
Survey	10432	89.8	0.9	4709.29	5931.54	-109.6	5932.47	0.85	0.65	0.54	358.94	5932.55
Survey	10525	91.2	2.7	4708.48	6024.48	-106.68	6025.37	2.45	1.51	1.94	358.99	6025.42
Survey	10618	90.9	0	4706.78	6117.43	-104.49	6118.28	2.92	0.32	2.9	359.02	6118.32
Survey	10710	89	357.9	4706.86	6209.41	-106.18	6210.27	3.08	2.07	2.28	359.02	6210.32
Survey	10802	89.5	357.1	4708.06	6301.31	-110.19	6302.22	1.03	0.54	0.87	359	6302.27
Survey	10894	89.3	356.6	4709.03	6393.16	-115.24	6394.13	0.59	0.22	0.54	358.97	6394.2
Survey	10986	89.9	357.3	4709.67	6485.03	-120.13	6486.05	1	0.65	0.76	358.94	6486.14
Survey	11078	90.9	357.9	4709.03	6576.94	-123.99	6578.01	1.27	1.09	0.65	358.92	6578.11
Survey	11171	89.6	358.6	4708.62	6669.9	-126.83	6671	1.59	1.4	0.75	358.91	6671.11
Survey	11262	88.8	359.9	4709.89	6760.88	-128.02	6761.98	1.68	0.88	1.43	358.92	6762.09
Survey	11353	90.3	0.1	4710.61	6851.88	-128.02	6852.98	1.66	1.65	0.22	358.93	6853.08
Survey	11445	92.5	359.7	4708.36	6943.84	-128.18	6944.93	2.43	2.39	0.43	358.94	6945.02
Survey	11537	92.8	0.3	4704.11	7035.74	-128.18	7036.82	0.73	0.33	0.65	358.96	7036.91
Survey	11630	88.9	0.5	4702.73	7128.71	-127.53	7129.77	4.2	4.19	0.22	358.98	7129.85
Survey	11723	90.7	359.4	4703.06	7221.7	-127.61	7222.76	2.27	1.94	1.18	358.99	7222.83
Survey	11816	91.2	359.6	4701.52	7314.68	-128.42	7315.74	0.58	0.54	0.22	358.99	7315.81
Survey	11908	90.3	0.1	4700.32	7406.67	-128.66	7407.72	1.12	0.98	0.54	359	7407.79
Survey	12000	90.1	0.7	4699.99	7498.67	-128.02	7499.71	0.69	0.22	0.65	359.02	7499.76
Survey	12093	91.5	359.5	4698.69	7591.66	-127.86	7592.69	1.98	1.51	1.29	359.04	7592.74
Survey	12184	90.7	358.5	4696.94	7682.63	-129.45	7683.67	1.41	0.88	1.1	359.03	7683.72
Survey	12277	90.4	358.9	4696.05	7775.6	-131.56	7776.66	0.54	0.32	0.43	359.03	7776.71
Survey	12372	92	358.4	4694.06	7870.55	-133.8	7871.63	1.76	1.68	0.53	359.03	7871.69
Survey	12466	91.6	359.8	4691.11	7964.49	-135.28	7965.58	1.55	0.43	1.49	359.03	7965.64
Survey	12560	91.9	0.7	4688.24	8058.44	-134.87	8059.52	1.01	0.32	0.96	359.04	8059.57
Survey	12654	90.9	1.7	4685.94	8152.39	-132.9	8153.44	1.5	1.06	1.06	359.07	8153.47
Survey	12749	88.3	3.2	4686.6	8247.29	-128.84	8248.27	3.16	2.74	1.58	359.1	8248.3
Survey	12844	88.7	2.7	4689.09	8342.13	-123.95	8343.04	0.67	0.42	0.53	359.15	8343.05
Survey	12938	88.5	2.1	4691.39	8436.02	-120.01	8436.87	0.67	0.21	0.64	359.18	8436.87
Survey	13032	89.9	3	4692.7	8529.91	-115.83	8530.7	1.77	1.49	0.96	359.22	8530.7

LeForce 1-11H2 Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	13127	88.9	1.4	4693.69	8624.83	-112.18	8625.56	1.99	1.05	1.68	359.25	8625.56
Survey	13222	87.4	359.9	4696.76	8719.77	-111.1	8720.48	2.23	1.58	1.58	359.27	8720.48
Survey	13316	87.7	0.5	4700.78	8813.68	-110.77	8814.37	0.71	0.32	0.64	359.28	8814.38
Survey	13411	88.2	0.1	4704.18	8908.62	-110.27	8909.3	0.67	0.53	0.42	359.29	8909.3
Survey	13505	89.8	359.5	4705.82	9002.6	-110.6	9003.28	1.82	1.7	0.64	359.3	9003.28
Survey	13599	91.7	359.5	4704.59	9096.58	-111.42	9097.26	2.02	2.02	0	359.3	9097.26
Survey	13694	91.7	359.4	4701.77	9191.53	-112.33	9192.21	0.11	0	0.11	359.3	9192.22
Survey	13788	91.4	359.5	4699.23	9285.49	-113.23	9286.18	0.34	0.32	0.11	359.3	9286.18
Survey	13883	91.9	358.1	4696.49	9380.43	-115.22	9381.13	1.56	0.53	1.47	359.3	9381.14
Survey	13909	92.7	358.3	4695.45	9406.4	-116.04	9407.11	3.17	3.08	0.77	359.29	9407.12
Survey	14003	93.2	359.3	4690.61	9500.25	-118.01	9500.98	1.19	0.53	1.06	359.29	9500.98
Survey	14098	91.9	359	4686.39	9595.15	-119.41	9595.89	1.4	1.37	0.32	359.29	9595.89
Survey	14193	90.7	358.6	4684.23	9690.1	-121.4	9690.86	1.33	1.26	0.42	359.28	9690.86
Survey	14288	91	358.4	4682.82	9785.06	-123.89	9785.84	0.38	0.32	0.21	359.27	9785.84
Survey	14382	92	358.2	4680.36	9878.98	-126.67	9879.79	1.08	1.06	0.21	359.27	9879.79
Survey	14404	92	358.2	4679.59	9900.96	-127.36	9901.78	0	0	0	359.26	9901.78
PrjCalcPnt	14453	92	358.2	4677.88	9949.91	-128.9	9950.74	0	0	0	359.26	9950.74

LeForce 3408 1-11H2 - Perforations and Shot Density

Stage Nbr	Date	Type	Top Depth	Top Depth (TVD)	Bottom Depth	Bottom Depth (TVD)	Zone	Shot Density	String Perforated	Fluid Type
34	July 15, 2015	Perforated	5219	4721	5221	4721	Miss Lime - Upper	1	Production Liner	Fresh Water
34	July 15, 2015		5326	4722	5328	4722	Miss Lime - Upper	1	Production Liner	Fresh Water
34	July 15, 2015	Perforated	5424	4723	5426	4723	Miss Lime - Upper	1	Production Liner	Fresh Water
34	July 15, 2015	Perforated	5628	4725	5630	4725	Miss Lime - Upper	1	Production Liner	Fresh Water
34	July 15, 2015	Perforated	5632	4725	5634	4725	Miss Lime - Upper	1	Production Liner	Fresh Water
33	July 15, 2015	Perforated	5688	4725	5690	4725	Miss Lime - Upper	1	Production Liner	Fresh Water
33	July 15, 2015	Perforated	5772	4726	5774	4726	Miss Lime - Upper	1	Production Liner	Fresh Water
33	July 15, 2015	Perforated	5855	4727	5857	4727	Miss Lime - Upper	1	Production Liner	Fresh Water
33	July 15, 2015	Perforated	5939	4729	5941	4729	Miss Lime - Upper	1	Production Liner	Fresh Water
33	July 15, 2015	Perforated	6022	4729	6024	4729	Miss Lime - Upper	1	Production Liner	Fresh Water
32	July 15, 2015	Perforated	6082	4729	6084	4729	Miss Lime - Upper	1	Production Liner	Fresh Water
32	July 15, 2015	Perforated	6166	4726	6168	4726	Miss Lime - Upper	1	Production Liner	Fresh Water
32	July 15, 2015	Perforated	6250	4723	6252	4722	Miss Lime - Upper	1	Production Liner	Fresh Water
32	July 15, 2015	Perforated	6334	4720	6336	4720	Miss Lime - Upper	1	Production Liner	Fresh Water
32	July 15, 2015	Perforated	6418	4721	6420	4721	Miss Lime - Upper	1	Production Liner	Fresh Water
31	July 15, 2015	Perforated	6478	4720	6480	4720	Miss Lime - Upper	1	Production Liner	Fresh Water
31	July 15, 2015	Perforated	6560	4719	6562	4719	Miss Lime - Upper	1	Production Liner	Fresh Water
31	July 15, 2015	Perforated	6641	4719	6643	4719	Miss Lime - Upper	1	Production Liner	Fresh Water
31	July 15, 2015	Perforated	6723	4718	6725	4718	Miss Lime - Upper	1	Production Liner	Fresh Water
31	July 15, 2015	Perforated	6804	4718	6806	4718	Miss Lime - Upper	1	Production Liner	Fresh Water
30	July 15, 2015	Perforated	6864	4717	6866	4717	Miss Lime - Upper	1	Production Liner	Fresh Water
30	July 15, 2015	Perforated	6948	4716	6950	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
30	July 15, 2015	Perforated	7032	4717	7034	4717	Miss Lime - Upper	1	Production Liner	Fresh Water
30	July 15, 2015	Perforated	7115	4717	7117	4717	Miss Lime - Upper	1	Production Liner	Fresh Water
30	July 15, 2015	Perforated	7199	4716	7201	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
29	July 15, 2015	Perforated	7259	4715	7261	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
29	July 15, 2015	Perforated	7344	4715	7346	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
29	July 15, 2015	Perforated	7429	4716	7431	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
29	July 15, 2015	Perforated	7513	4715	7515	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
29	July 15, 2015	Perforated	7598	4713	7600	4713	Miss Lime - Upper	1	Production Liner	Fresh Water
28	July 15, 2015	Perforated	7658	4713	7660	4713	Miss Lime - Upper	1	Production Liner	Fresh Water
28	July 15, 2015	Perforated	7745	4713	7747	4713	Miss Lime - Upper	1	Production Liner	Fresh Water
28	July 15, 2015	Perforated	7831	4714	7833	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
28	July 15, 2015	Perforated	7918	4714	7920	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
28	July 15, 2015	Perforated	8004	4714	8006	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
27	July 15, 2015	Perforated	8064	4713	8066	4713	Miss Lime - Upper	1	Production Liner	Fresh Water
27	July 15, 2015	Perforated	8147	4714	8149	4714	Miss Lime - Upper	1	Production Liner	Fresh Water

LeForce 3408 1-11H2 - Perforations and Shot Density

Stage Nbr	Date	Type	Top Depth	Top Depth (TVD)	Bottom Depth	Bottom Depth (TVD)	Zone	Shot Density	String Perforated	Fluid Type
27	July 15, 2015	Perforated	8230	4715	8232	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
27	July 15, 2015	Perforated	8312	4715	8314	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
27	July 15, 2015	Perforated	8395	4716	8397	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
26	July 15, 2015	Perforated	8455	4716	8457	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
26	July 15, 2015	Perforated	8540	4716	8542	4715	Miss Lime - Upper	1	Production Liner	Fresh Water
26	July 15, 2015	Perforated	8624	4714	8626	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
26	July 15, 2015	Perforated	8709	4714	8711	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
26	July 15, 2015	Perforated	8793	4718	8795	4718	Miss Lime - Upper	1	Production Liner	Fresh Water
25	July 15, 2015	Frac Sleeve	8925	4723	8927	4723	Miss Lime - Upper	1	Production Liner	Fresh Water
24	July 14, 2015	Frac Sleeve	9151	4722	9153	4722	Miss Lime - Upper	1	Production Liner	Fresh Water
23	July 14, 2015	Frac Sleeve	9374	4716	9376	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
22	July 14, 2015	Frac Sleeve	9599	4714	9601	4714	Miss Lime - Upper	1	Production Liner	Fresh Water
21	July 14, 2015	Frac Sleeve	9828	4716	9830	4716	Miss Lime - Upper	1	Production Liner	Fresh Water
20	July 14, 2015	Frac Sleeve	10058	4712	10060	4712	Miss Lime - Upper	1	Production Liner	Fresh Water
19	July 14, 2015	Frac Sleeve	10287	4710	10289	4710	Miss Lime - Upper	1	Production Liner	Fresh Water
18	July 14, 2015	Frac Sleeve	10516	4709	10518	4709	Miss Lime - Upper	1	Production Liner	Fresh Water
17	July 14, 2015	Frac Sleeve	10744	4707	10746	4707	Miss Lime - Upper	1	Production Liner	Fresh Water
16	July 14, 2015	Frac Sleeve	10966	4710	10968	4710	Miss Lime - Upper	1	Production Liner	Fresh Water
15	July 14, 2015	Frac Sleeve	11194	4709	11196	4709	Miss Lime - Upper	1	Production Liner	Fresh Water
14	July 14, 2015	Frac Sleeve	11414	4710	11416	4709	Miss Lime - Upper	1	Production Liner	Fresh Water
13	July 14, 2015	Frac Sleeve	11640	4703	11642	4703	Miss Lime - Upper	1	Production Liner	Fresh Water
12	July 14, 2015	Frac Sleeve	11869	4701	11871	4701	Miss Lime - Upper	1	Production Liner	Fresh Water
11	July 14, 2015	Frac Sleeve	12096	4699	12098	4699	Miss Lime - Upper	1	Production Liner	Fresh Water
10	July 14, 2015	Frac Sleeve	12322	4695	12324	4695	Miss Lime - Upper	1	Production Liner	Fresh Water
9	July 14, 2015	Frac Sleeve	12545	4689	12547	4689	Miss Lime - Upper	1	Production Liner	Fresh Water
8	July 14, 2015	Frac Sleeve	12775	4687	12777	4687	Miss Lime - Upper	1	Production Liner	Fresh Water
7	July 14, 2015	Frac Sleeve	12994	4692	12996	4692	Miss Lime - Upper	1	Production Liner	Fresh Water
6	July 14, 2015	Frac Sleeve	13217	4697	13219	4697	Miss Lime - Upper	1	Production Liner	Fresh Water
5	July 14, 2015	Frac Sleeve	13435	4705	13437	4705	Miss Lime - Upper	1	Production Liner	Fresh Water
4	July 14, 2015	Frac Sleeve	13664	4703	13666	4703	Miss Lime - Upper	1	Production Liner	Fresh Water
3	July 14, 2015	Frac Sleeve	13892	4696	13894	4696	Miss Lime - Upper	1	Production Liner	Fresh Water
2	July 13, 2015	Frac Sleeve	14120	4686	14122	4686	Miss Lime - Upper	1	Production Liner	Fresh Water
1	July 13, 2015	P-Sleeve	14352	4681	14354	4681	Miss Lime - Upper	1	Production Liner	Fresh Water

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/13/2015
Job End Date:	7/15/2015
State:	Kansas
County:	Harper
API Number:	15-077-22140-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	LeForce 3408 1-11H2
Longitude:	-98.16368958
Latitude:	37.06572200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,679
Total Base Water Volume (gal):	3,565,128
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	94.21541	None
Sand (Proppant)	Archer	Proppant	Silica Substrate	NA	100.00000	5.40801	None
Hydrochloric Acid (15%)	Archer	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.04696	None
			Methyl Alcohol	67-56-1	80.00000	0.00060	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00011	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00002	None
AIC	Archer	Liquid Acid Iron Control	Acetic Acid	64-19-7	50.00000	0.00053	None
			Citric Acid	77-92-9	30.00000	0.00032	None
Chemflush	Archer	Enviro-Friendly Chemical Flush	Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00056	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00006	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		0.02953
		Aliphatic Hydrocarbon	64742-47-8		0.01477
		Anionic Polymer	N/A		0.01477
		Water	7732-18-5		0.01058
		Polyol Ester	N/A		0.00246
		Oxyalkylated Alcohol	68002-97-1		0.00246
		Sodium Salt of Phosphate Ester	68131-72-6		0.00176
		Acrylic Polymer	28205-96-1		0.00176
		Polyglycol Ester	N/A		0.00049
		Water	7732-18-5		0.00037
		Alcohol Ethoxylate Surfactants	N/A		0.00011
		WATER	7732-18-5		0.00009
		TRADE SECRET	N/A		0.00006
		n-olefins	N/A		0.00006
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00005
		Propargyl Alcohol	107-19-7		0.00004
		ISOPROPANOL	67-63-0		0.00002
		METHANOL	67-56-1		0.00002
		Water	7732-18-5		
		Acetic Acid	64-19-7		
		Cinnamic Aldehyde	104-55-2		
		Surfactant	N/A		
		Buffer	N/A		

* 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)



SandRidge Energy
Leforce 3408 1-11H
Harper 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 Dave SWD #3703 1-8 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 2500 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

84.02 Bbls (255 sacks) of 13.2 ppg Lead slurry:
Class A – 1.85 Yield
2% Calcium Chloride
2% Gypsum
2% NAMS
.25 lb/sk Flocele

32.06 Bbls (150 sacks) of 15.6 ppg Tail slurry:
Class A - 1.2 Yield
2% Calcium Chloride
.25 lb/sk Flocele

The top plug was then released and displaced with 58 Bbls of fresh water. The plug bumped and pressured up to 900 psi. Pressure was released and floats held with .25 bbl back. 40 Bbl circulated to the pit.

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.



INVOICE

DATE	INVOICE #
5/6/2015	5640

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
HARPER, KS	5/4/2015		4171	LARIAT 20	LEFORCE 3408 1-11H	Due on rec...

Description
DRILLED 90' OF " CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 9 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID \$9,500.00

Sales Tax (6.15%)	\$256.58
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TOTAL	\$9,500.00
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SandRidge Energy
Leforce 3408 1-11H
Harper 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 Dave SWD #3703 1-8 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 2500 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

84.02 Bbls (255 sacks) of 13.2 ppg Lead slurry:
Class A – 1.85 Yield
2% Calcium Chloride
2% Gypsum
2% NAMS
.25 lb/sk Flocele

32.06 Bbls (150 sacks) of 15.6 ppg Tail slurry:
Class A - 1.2 Yield
2% Calcium Chloride
.25 lb/sk Flocele

The top plug was then released and displaced with 58 Bbls of fresh water. The plug bumped and pressured up to 900 psi. Pressure was released and floats held with .25 bbl back. 40 Bbl circulated to the pit.

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.



INVOICE

DATE	INVOICE #
5/6/2015	5640

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REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
HARPER, KS	5/4/2015		4171	LARIAT 20	LEFORCE 3408 1-11H	Due on rec...

Description
DRILLED 90' OF " CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 9 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID \$9,500.00

Sales Tax (6.15%)	\$256.58
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TOTAL	\$9,500.00
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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 Leforce 3408 1-11H 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 4000 psi. After a successful test we began the job by pumping 30 bbls of spacer. We then mixed and pumped the following cements:

42.39 bbl 170 Sacks of 13.6 ppg
 50/50 Poz:A Slurry - 1.4 Yield
 2.0% Gel
 0.4% FL-160
 0.1% SA-51

21.02	bbl	100	Sacks of 15.6 ppg
Class A Slurry -		1.18	Yield

0.8% FL-160
 0.2% CD-31

The top plug was then released and displaced with 192.5 Bbls of fresh water. The plug did not bump and final lift pressure was 800 psi. Pressure was released and floats held with .25 bbl back to the truck. Well maintained circulation throughout the job.

Due to technical difficulty no chart was taken.

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.

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

September 02, 2015

Wanda Ledbetter
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO-1
API 15-077-22146-01-00
LeForce 3408 1-11H2
SE/4 Sec.11-34S-08W
Harper County, Kansas

Dear Wanda Ledbetter:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 5/2/2015 and the ACO-1 was received on September 01, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department