



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1222577
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: _____

1222577

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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INVOICE

DATE	INVOICE #
5/21/2014	4797

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	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
SUMNER, KS	5/16/2014	3646	LARIAT 20	NULICK 3404 2-29H	Due on rec...

Description
DRILLED 60' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 60' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 6 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 \$17,000.00

Sales Tax (6.65%)	\$151.75
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TOTAL	\$17,151.75
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SandRidge Energy
Nulik #3404 2-29 H
Sumner 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 Nulik #3404 2-29 H 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:

50 Bbls (150 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend - 1.87 Yield
6.0% Gel
2.0%cc
¼# Floseal

32Bbls (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 39 Bbls of fresh water. The plug bumped and pressured up to 1200 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
Nulik #3404 2-29H
Sumner 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 Nulik #3404 2-29H 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 3000 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 199.75 of fresh water. The plug bumped and pressured up to 800 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

Location Kansas Slot Nulik 3404 2-29H
 Field Sec 29 - 34S - 04W Well Nulik 3404 2-29H
 Installation Sumner County Wellbore Nulik 3404 2-29H (PWB)

Installation Data

Name	Latitude	Longitude	Northing	Easting
Sumner County	N37 4 0.08	W97 47 1.30	146561.00	2209013.00

Coordinate System Kansas State Planes, Southern Zone

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
Nulik 3404 2-29H	-142.69 N	3170.56 E	N37 4 0.42	W97 46 22.19	146518.30	2212183.70

Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
1249.00	-1228.00	21.00

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/ 2" BRN	1750.00	0.00	-51.22	1750.00	0.00	0.00	0.00	-0.00
Target Hold Section	2187.00	8.74	-51.22	2185.31	20.84	-25.93	2.00	-19.12
Target Build w/ 8" BRN	3806.70	8.74	308.78	3786.20	174.98	-217.79	0.00	-160.56
Target 275' Tangent	4975.14	88.00	180.00	4564.93	-513.14	-307.94	8.00	531.95
Target Build w/ 8" BRN	5250.14	88.00	180.00	4574.53	-787.97	-307.94	0.00	806.20
Target Landing Point	5279.51	90.35	180.00	4574.95	-817.34	-307.94	8.00	835.51
T.D. & Target PBHL Nulik	9223.45	90.35	180.00	4550.80	-4761.20	-308.00	0.00	4771.15

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
1750.00	0.00	-51.22	1750.00	0.00	-300.00	KOP w/ 2" BRN	2212183.70 East : 146518.30 North
2187.00	8.74	-51.22	2185.31	20.84	-25.93	Hold Section	2212157.77 East : 146539.14 North
3806.70	8.74	308.78	3786.20	174.98	-217.79	Build w/ 8" BRN	2211955.90 East : 146693.29 North
4975.14	88.00	180.00	4564.93	-513.14	-307.94	PBHL Nulik 3404 2-29H	2211875.69 East : 141756.89 North
5250.14	88.00	180.00	4574.53	-787.97	-307.94	275' Tangent	2211875.75 East : 146505.14 North
5279.51	90.35	180.00	4574.95	-817.34	-307.94	Build w/ 8" BRN	2211875.75 East : 145730.30 North
5279.51	90.35	180.00	4574.95	-817.34	-307.94	Landing Point	2211875.75 East : 145700.93 North

Created by admin

Date plotted 7-Jul-2014

Plot reference is Nulik 3404 2-29H (PWB)

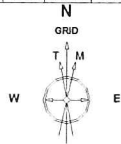
Ref well path is Nulik 3404 2-29H (PWB#1)

Coordinates are in feet reference Nulik 3404 2-29H

True Vertical Depths are reference Nulik 3404 2-29H

Measured Depths are reference Slot

Plot North is aligned to GRID North

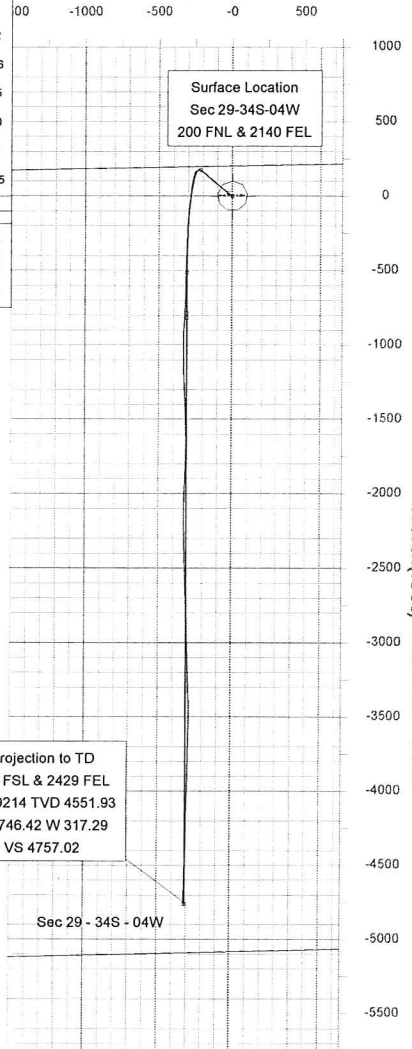


8-May-2014

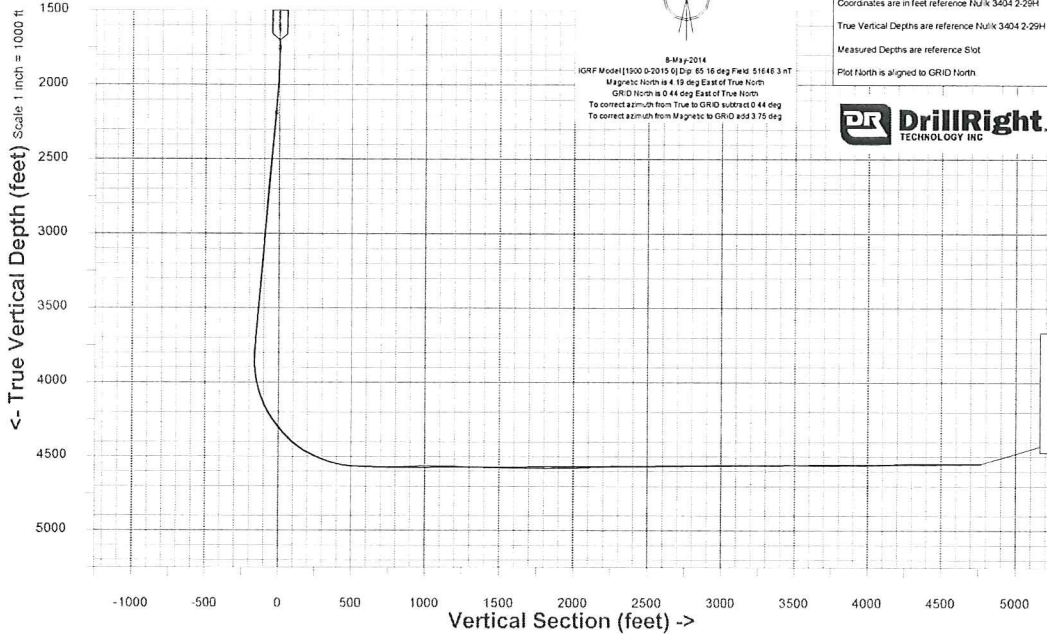
IGRF Model [1900 0-2015 6] Dip: 65.16 deg Field: 51646.3 nT
 Magnetic North is 4.19 deg East of True North
 GRID North is 0.44 deg East of True North
 To correct azimuth from True to GRID subtract 0.44 deg
 To correct azimuth from Magnetic to GRID add 3.75 deg



East (feet) ->
 Scale 1 inch = 1000 ft



Target Line: 05-08-14
 TGT: 4580' KBTVD @ 0' VS
 90.35° @ 183.7 AZI Plane



Azimuth 183.70 with reference 0.00 N, 0.00 E from Nulik 3404 2-29H
 Scale 1 inch = 1000 ft

Company: Sandridge
 Well Name: Nulik 2-29H
 Legals: Sec: 29 Township: 34S
 Range: 04W
 County/State: Sumner KS
 Rig Name: Lariat 20

Customer Rep	Position	Directional Driller	MWD Operator
		Mike Foster	
		Scott Graham	
		Phillip Bryant	
		Robert Philllips	

Nulik 3404 2-29H 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	613.00	0.60	251.60	612.99	-1.01	-3.05	1.20	0.10	0.10	17.68	251.68	3.21
Survey	897.00	0.70	212.90	896.97	-2.94	-5.40	3.28	0.16	0.04	13.63	241.43	6.15
Survey	1182.00	0.90	224.60	1181.94	-6.00	-7.92	6.50	0.09	0.07	4.11	232.85	9.94
Survey	1465.00	1.00	52.50	1464.93	-6.08	-7.52	6.55	0.67	0.04	60.81	231.04	9.67
Survey	1649.00	1.70	44.80	1648.88	-3.17	-4.32	3.44	0.39	0.38	4.18	233.73	5.36
Survey	1741.00	1.00	15.80	1740.85	-1.43	-3.14	1.63	1.04	0.76	31.52	245.51	3.45
Survey	1832.00	2.50	302.60	1831.81	0.40	-4.60	-0.10	2.65	1.65	80.44	274.97	4.62
Survey	1924.00	4.60	310.30	1923.63	3.87	-9.10	-3.27	2.34	2.28	8.37	293.04	9.89
Survey	2014.00	6.20	308.50	2013.23	9.23	-15.66	-8.20	1.79	1.78	2.00	300.52	18.18
Survey	2106.00	8.70	308.40	2104.45	16.65	-25.00	-15.00	2.72	2.72	0.11	303.66	30.04
Survey	2198.00	8.30	306.50	2195.44	24.92	-35.79	-22.56	0.53	0.43	2.07	304.85	43.61
Survey	2290.00	8.00	313.00	2286.51	33.23	-45.81	-30.20	1.05	0.33	7.07	305.96	56.59
Survey	2380.00	9.30	316.90	2375.49	42.81	-55.36	-39.15	1.58	1.44	4.33	307.71	69.98
Survey	2472.00	8.50	313.40	2466.38	52.91	-65.38	-48.58	1.05	0.87	3.80	308.98	84.11
Survey	2563.00	8.20	310.50	2556.41	61.75	-75.20	-56.77	0.57	0.33	3.19	309.39	97.30
Survey	2655.00	7.60	304.40	2647.54	69.45	-85.21	-63.81	1.12	0.65	6.63	309.18	109.93
Survey	2746.00	8.60	305.00	2737.63	76.75	-95.75	-70.41	1.10	1.10	0.66	308.71	122.71
Survey	2837.00	8.60	307.40	2827.61	84.79	-106.73	-77.73	0.39	0.00	2.64	308.46	136.31
Survey	2932.00	8.50	305.10	2921.55	93.14	-118.12	-85.32	0.37	0.11	2.42	308.26	150.42
Survey	3027.00	8.00	307.10	3015.57	101.17	-129.13	-92.63	0.61	0.53	2.11	308.08	164.04
Survey	3121.00	8.40	311.10	3108.61	109.63	-139.52	-100.40	0.74	0.43	4.26	308.16	177.44
Survey	3216.00	7.70	306.50	3202.67	117.98	-149.87	-108.06	1.00	0.74	4.84	308.21	190.74
Survey	3311.00	8.20	310.00	3296.76	126.12	-160.17	-115.52	0.73	0.53	3.68	308.22	203.86
Survey	3405.00	8.10	309.50	3389.81	134.64	-170.42	-123.36	0.13	0.11	0.53	308.31	217.19
Survey	3500.00	9.20	317.00	3483.73	144.45	-180.76	-132.48	1.66	1.16	7.89	308.63	231.39
Survey	3594.00	8.10	313.30	3576.66	154.49	-190.71	-141.86	1.31	1.17	3.94	309.01	245.43
Survey	3689.00	7.90	310.80	3670.74	163.35	-200.52	-150.07	0.42	0.21	2.63	309.17	258.63
Survey	3784.00	8.40	306.80	3764.78	171.77	-211.02	-157.79	0.80	0.53	4.21	309.15	272.09
Survey	3814.00	8.70	298.00	3794.45	174.15	-214.78	-159.93	4.47	1.00	29.33	309.04	276.51
Survey	3845.00	9.30	285.00	3825.07	175.90	-219.27	-161.38	6.82	1.94	41.94	308.74	281.11
Survey	3877.00	9.80	270.00	3856.63	176.57	-224.49	-161.72	7.91	1.56	46.88	308.19	285.61
Survey	3909.00	10.10	256.60	3888.15	175.92	-229.94	-160.71	7.28	0.94	41.87	307.42	289.52
Survey	3940.00	10.80	243.40	3918.64	173.99	-235.19	-158.45	8.03	2.26	42.58	306.49	292.55
Survey	3971.00	12.30	233.10	3949.01	170.71	-240.43	-154.84	8.21	4.84	33.23	305.38	294.87
Survey	4003.00	14.20	222.60	3980.17	165.77	-245.81	-149.56	9.56	5.94	32.81	304.00	296.48
Survey	4035.00	15.60	214.90	4011.09	159.35	-250.93	-142.82	7.57	4.38	24.06	302.42	297.25
Survey	4066.00	16.30	205.60	4040.90	152.01	-255.20	-135.22	8.54	2.26	30.00	300.78	297.04
Survey	4098.00	17.80	199.10	4071.50	143.33	-258.74	-126.33	7.57	4.69	20.31	298.98	295.79
Survey	4129.00	19.80	194.90	4100.84	133.78	-261.64	-116.62	7.79	6.45	13.55	297.08	293.86
Survey	4161.00	22.00	192.10	4130.74	122.68	-264.29	-105.37	7.55	6.87	8.75	294.90	291.38

Nulik 3404 2-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4192.00	24.50	189.90	4159.22	110.67	-266.61	-93.23	8.54	8.06	7.10	292.54	288.67
Survey	4225.00	27.10	189.30	4188.93	96.51	-269.00	-78.95	7.92	7.88	1.82	289.74	285.79
Survey	4257.00	29.80	188.80	4217.06	81.45	-271.40	-63.77	8.47	8.44	1.56	286.71	283.36
Survey	4288.00	32.90	187.90	4243.53	65.50	-273.74	-47.70	10.11	10.00	2.90	283.46	281.47
Survey	4320.00	36.10	187.10	4269.90	47.53	-276.10	-29.61	10.10	10.00	2.50	279.77	280.16
Survey	4351.00	38.40	185.80	4294.57	28.89	-278.20	-10.88	7.84	7.42	4.19	275.93	279.70
Survey	4383.00	40.10	185.40	4319.35	8.74	-280.18	9.36	5.37	5.31	1.25	271.79	280.32
Survey	4414.00	42.50	186.10	4342.64	-11.62	-282.23	29.81	7.88	7.74	2.26	267.64	282.47
Survey	4446.00	45.50	186.10	4365.66	-33.72	-284.59	52.01	9.37	9.37	0.00	263.24	286.58
Survey	4478.00	48.60	186.30	4387.46	-57.00	-287.12	75.41	9.70	9.69	0.63	258.77	292.72
Survey	4509.00	51.30	185.90	4407.40	-80.60	-289.64	99.12	8.77	8.71	1.29	254.45	300.65
Survey	4541.00	54.90	185.90	4426.61	-106.05	-292.27	124.69	11.25	11.25	0.00	250.06	310.92
Survey	4572.00	57.80	185.60	4443.79	-131.72	-294.85	150.47	9.39	9.35	0.97	245.93	322.93
Survey	4604.00	60.00	184.40	4460.32	-159.01	-297.23	177.86	7.59	6.87	3.75	241.85	337.09
Survey	4635.00	61.40	182.90	4475.49	-185.99	-298.95	204.89	6.18	4.52	4.84	238.11	352.08
Survey	4667.00	64.00	182.60	4490.17	-214.39	-300.31	233.32	8.17	8.13	0.94	234.48	368.98
Survey	4698.00	66.80	183.30	4503.07	-242.54	-301.76	261.51	9.26	9.03	2.26	231.21	387.15
Survey	4730.00	69.20	182.90	4515.06	-272.16	-303.36	291.17	7.59	7.50	1.25	228.10	407.55
Survey	4761.00	71.40	182.60	4525.51	-301.31	-304.76	320.35	7.16	7.10	0.97	225.33	428.56
Survey	4793.00	73.50	182.80	4535.16	-331.79	-306.20	350.86	6.59	6.56	0.62	222.70	451.49
Survey	4825.00	76.10	182.10	4543.55	-362.64	-307.52	381.73	8.39	8.12	2.19	220.30	475.47
Survey	4856.00	78.40	181.10	4550.39	-392.86	-308.36	411.94	8.06	7.42	3.23	218.13	499.42
Survey	4887.00	80.80	180.80	4555.99	-423.34	-308.87	442.39	7.80	7.74	0.97	216.11	524.04
Survey	4919.00	83.30	180.90	4560.42	-455.03	-309.34	474.04	7.82	7.81	0.31	214.21	550.22
Survey	4951.00	85.80	181.10	4563.45	-486.87	-309.90	505.85	7.84	7.81	0.63	212.48	577.13
Survey	4983.00	87.10	181.60	4565.44	-518.80	-310.65	537.77	4.35	4.06	1.56	210.91	604.70
Survey	5015.00	87.30	181.80	4567.00	-550.75	-311.60	569.71	0.88	0.63	0.63	209.50	632.79
Survey	5047.00	87.10	181.30	4568.56	-582.70	-312.46	601.65	1.68	0.63	1.56	208.20	661.19
Survey	5078.00	88.10	182.10	4569.86	-613.66	-313.38	632.60	4.13	3.23	2.58	207.05	689.05
Survey	5110.00	88.70	182.10	4570.75	-645.62	-314.55	664.57	1.88	1.88	0.00	205.98	718.17
Survey	5141.00	89.50	182.30	4571.24	-676.59	-315.74	695.56	2.66	2.58	0.65	205.02	746.64
Survey	5173.00	90.40	182.60	4571.26	-708.56	-317.11	727.55	2.96	2.81	0.94	204.11	776.28
Survey	5204.00	91.20	183.10	4570.83	-739.52	-318.65	758.54	3.04	2.58	1.61	203.31	805.25
Survey	5234.00	91.50	183.10	4570.12	-769.47	-320.27	788.53	1.00	1.00	0.00	202.60	833.46
Survey	5304.00	92.60	182.40	4567.62	-839.34	-323.63	858.48	1.86	1.57	1.00	201.09	899.57
Survey	5399.00	91.30	182.40	4564.39	-934.20	-327.61	953.39	1.37	1.37	0.00	199.33	989.98
Survey	5495.00	89.00	179.60	4564.14	-1030.17	-329.29	1049.27	3.77	2.40	2.92	197.73	1081.52
Survey	5564.00	89.50	178.60	4565.04	-1099.15	-328.21	1118.04	1.62	0.72	1.45	196.63	1147.11
Survey	5655.00	88.20	176.60	4566.87	-1190.05	-324.40	1208.50	2.62	1.43	2.20	195.25	1233.47
Survey	5747.00	86.70	176.90	4570.96	-1281.81	-319.19	1299.74	1.66	1.63	0.33	193.98	1320.95
Survey	5839.00	91.20	178.40	4572.65	-1373.69	-315.42	1391.18	5.16	4.89	1.63	192.93	1409.44
Survey	5930.00	87.20	178.30	4573.92	-1464.62	-312.80	1481.75	4.40	4.40	0.11	192.06	1497.65
Survey	6021.00	88.60	179.30	4577.25	-1555.54	-310.90	1572.36	1.89	1.54	1.10	191.30	1586.30
Survey	6113.00	89.00	178.90	4579.18	-1647.51	-309.46	1664.05	0.61	0.43	0.43	190.64	1676.32
Survey	6205.00	90.40	180.90	4579.66	-1739.50	-309.29	1755.83	2.65	1.52	2.17	190.08	1766.78
Survey	6296.00	91.00	183.40	4578.55	-1830.42	-312.70	1846.78	2.83	0.66	2.75	189.69	1856.94
Survey	6387.00	90.20	182.60	4577.60	-1921.29	-317.46	1937.77	1.24	0.88	0.88	189.38	1947.34
Survey	6479.00	91.70	182.60	4576.07	-2013.18	-321.63	2029.74	1.63	1.63	0.00	189.08	2038.71

Nulik 3404 2-29H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	6569.00	92.50	180.40	4572.77	-2103.08	-323.98	2119.60	2.60	0.89	2.44	188.76	2127.89
Survey	6661.00	91.80	179.60	4569.32	-2195.01	-323.98	2211.34	1.15	0.76	0.87	188.40	2218.79
Survey	6752.00	89.80	179.30	4568.05	-2285.99	-323.11	2302.08	2.22	2.20	0.33	188.05	2308.71
Survey	6844.00	89.70	178.80	4568.45	-2377.98	-321.58	2393.78	0.55	0.11	0.54	187.70	2399.63
Survey	6938.00	91.00	177.60	4567.88	-2471.93	-318.63	2487.34	1.88	1.38	1.28	187.34	2492.38
Survey	7033.00	90.80	178.10	4566.38	-2566.85	-315.06	2581.83	0.57	0.21	0.53	187.00	2586.11
Survey	7127.00	91.10	177.40	4564.82	-2660.76	-311.37	2675.31	0.81	0.32	0.74	186.67	2678.92
Survey	7222.00	91.30	177.90	4562.83	-2755.66	-307.48	2769.76	0.57	0.21	0.53	186.37	2772.76
Survey	7316.00	91.50	178.10	4560.53	-2849.57	-304.20	2863.26	0.30	0.21	0.21	186.09	2865.76
Survey	7410.00	89.80	178.40	4559.46	-2943.52	-301.33	2956.83	1.84	1.81	0.32	185.85	2958.90
Survey	7504.00	90.70	178.60	4559.05	-3037.48	-298.87	3050.44	0.98	0.96	0.21	185.62	3052.15
Survey	7598.00	89.80	178.40	4558.64	-3131.45	-296.41	3144.05	0.98	0.96	0.21	185.41	3145.45
Survey	7692.00	89.00	177.90	4559.62	-3225.39	-293.38	3237.60	1.00	0.85	0.53	185.20	3238.71
Survey	7786.00	90.30	177.40	4560.19	-3319.31	-289.53	3331.08	1.48	1.38	0.53	184.99	3331.91
Survey	7881.00	90.30	178.30	4559.70	-3414.24	-285.96	3425.58	0.95	0.00	0.95	184.79	3426.19
Survey	7975.00	89.40	179.40	4559.94	-3508.22	-284.08	3519.24	1.51	0.96	1.17	184.63	3519.70
Survey	8069.00	88.90	181.10	4561.34	-3602.20	-284.49	3613.05	1.88	0.53	1.81	184.52	3613.42
Survey	8165.00	90.10	181.30	4562.18	-3698.17	-286.50	3708.95	1.27	1.25	0.21	184.43	3709.25
Survey	8259.00	90.30	181.80	4561.85	-3792.14	-289.04	3802.89	0.57	0.21	0.53	184.36	3803.14
Survey	8354.00	90.20	181.60	4561.44	-3887.10	-291.86	3897.83	0.24	0.11	0.21	184.29	3898.04
Survey	8449.00	91.90	181.10	4559.70	-3982.05	-294.10	3992.73	1.87	1.79	0.53	184.22	3992.90
Survey	8543.00	92.80	181.40	4555.84	-4075.95	-296.15	4086.57	1.01	0.96	0.32	184.16	4086.69
Survey	8638.00	91.90	181.90	4551.95	-4170.83	-298.88	4181.42	1.08	0.95	0.53	184.10	4181.53
Survey	8733.00	92.20	181.30	4548.55	-4265.73	-301.53	4276.30	0.71	0.32	0.63	184.04	4276.37
Survey	8828.00	89.60	181.80	4547.06	-4360.68	-304.10	4371.21	2.79	2.74	0.53	183.99	4371.27
Survey	8923.00	89.30	181.60	4547.97	-4455.63	-306.92	4466.15	0.38	0.32	0.21	183.94	4466.19
Survey	9017.00	89.30	181.30	4549.12	-4549.59	-309.30	4560.07	0.32	0.00	0.32	183.89	4560.09
Survey	9111.00	89.00	182.40	4550.51	-4643.53	-312.33	4654.01	1.21	0.32	1.17	183.85	4654.02
Survey	9167.00	89.30	182.90	4551.34	-4699.46	-314.92	4709.99	1.04	0.54	0.89	183.83	4710.00
PrjCalcPnt	9214	89.3	182.9	4551.91	-4746.40	-317.30	4756.98	0	0	0	183.82	4756.99

Nulik 3404 2-29H

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
7/9/2014	4,898.0	4,900.0	Miss Lime, Original Hole
7/9/2014	4,948.0	4,950.0	Miss Lime, Original Hole
7/9/2014	5,028.0	5,030.0	Miss Lime, Original Hole
7/9/2014	5,098.0	5,100.0	Miss Lime, Original Hole
7/19/2014	5,338.0	5,340.0	Miss Lime, Original Hole
7/19/2014	5,398.0	5,400.0	Miss Lime, Original Hole
7/19/2014	5,458.0	5,460.0	Miss Lime, Original Hole
7/19/2014	5,533.0	5,535.0	Miss Lime, Original Hole
7/19/2014	5,613.0	5,615.0	Miss Lime, Original Hole
7/19/2014	5,668.0	5,670.0	Miss Lime, Original Hole
7/19/2014	5,748.0	5,750.0	Miss Lime, Original Hole
7/19/2014	5,838.0	5,840.0	Miss Lime, Original Hole
7/19/2014	5,898.0	5,900.0	Miss Lime, Original Hole
7/19/2014	5,955.0	5,957.0	Miss Lime, Original Hole
7/19/2014	6,038.0	6,040.0	Miss Lime, Original Hole
7/19/2014	6,105.0	6,107.0	Miss Lime, Original Hole
7/19/2014	6,158.0	6,160.0	Miss Lime, Original Hole
7/19/2014	6,253.0	6,255.0	Miss Lime, Original Hole
7/19/2014	6,328.0	6,330.0	Miss Lime, Original Hole
7/19/2014	6,400.0	6,402.0	Miss Lime, Original Hole
7/19/2014	6,416.0	6,418.0	Miss Lime, Original Hole
7/19/2014	6,573.0	6,575.0	Miss Lime, Original Hole
7/19/2014	6,623.0	6,625.0	Miss Lime, Original Hole
7/19/2014	6,673.0	6,675.0	Miss Lime, Original Hole
7/18/2014	6,743.0	6,745.0	Miss Lime, Original Hole
7/18/2014	6,803.0	6,805.0	Miss Lime, Original Hole
7/18/2014	6,873.0	6,875.0	Miss Lime, Original Hole
7/18/2014	6,948.0	6,950.0	Miss Lime, Original Hole
7/18/2014	6,990.0	6,992.0	Miss Lime, Original Hole
7/18/2014	7,078.0	7,080.0	Miss Lime, Original Hole
7/18/2014	7,176.0	7,178.0	Miss Lime, Original Hole
7/18/2014	7,253.0	7,255.0	Miss Lime, Original Hole
7/18/2014	7,313.0	7,315.0	Miss Lime, Original Hole
7/18/2014	7,398.0	7,400.0	Miss Lime, Original Hole
7/18/2014	7,473.0	7,475.0	Miss Lime, Original Hole
7/18/2014	7,516.0	7,518.0	Miss Lime, Original Hole
7/18/2014	7,573.0	7,575.0	Miss Lime, Original Hole
7/18/2014	7,633.0	7,635.0	Miss Lime, Original Hole
7/18/2014	7,688.0	7,690.0	Miss Lime, Original Hole
7/18/2014	7,743.0	7,745.0	Miss Lime, Original Hole
7/18/2014	7,743.0	7,745.0	Miss Lime, Original Hole
7/18/2014	7,838.0	7,840.0	Miss Lime, Original Hole
7/18/2014	7,898.0	7,900.0	Miss Lime, Original Hole
7/18/2014	7,966.0	7,968.0	Miss Lime, Original Hole
7/18/2014	8,368.0	8,370.0	Miss Lime, Original Hole
7/18/2014	8,478.0	8,480.0	Miss Lime, Original Hole
7/18/2014	8,613.0	8,615.0	Miss Lime, Original Hole
7/18/2014	8,702.0	8,704.0	Miss Lime, Original Hole
7/18/2014	8,778.0	8,780.0	Miss Lime, Original Hole
7/18/2014	8,848.0	8,850.0	Miss Lime, Original Hole
7/18/2014	8,898.0	8,900.0	Miss Lime, Original Hole
7/18/2014	8,970.0	8,972.0	Miss Lime, Original Hole
7/18/2014	9,068.0	9,070.0	Miss Lime, Original Hole
7/18/2014	9,153.0	9,155.0	Miss Lime, Original Hole

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/15/2014
Job End Date:	7/15/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22742-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Nulik 3404 #2-29H
Longitude:	-97.77283100
Latitude:	37.06678400
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,552
Total Base Water Volume (gal):	2,577,078
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	Well Operator	Carrier/Base Fluid	Water	7732-18-5	100.00000	95.77780	None
40/70 Premium Preferred Sand	Cimarron Acid	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	100.00000	2.83178	None
15% Uninhibited HCl Acid	Cimarron Acid	Etching, Dissolving, Cleaning	Water	7732-18-5	85.00000	0.64524	None
			Hydrochloric Acid	7647-01-0	15.00000	0.11387	None
			Water	7732-18-5	24.00000	0.00015	None
			Methanol	67-56-1	9.00000	0.00006	None
			Isopropyl Alcohol	67-63-0	8.40000	0.00005	None
			2-Butoxyethanol	111-76-2	8.40000	0.00005	None
			Cinnamaldehyde	104-55-2	8.40000	0.00005	None
			Triethyl Phosphate	78-40-0	8.40000	0.00005	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	None
			Ethylene Glycol	107-21-1	8.40000	0.00005	None
			N-Dimethylformamide	68-12-2	8.40000	0.00005	None
			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00005	None

40/70 Resin Coated Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	97.00000	0.48410	None
Iron Control, Sodium Erythorbate	Cimarron Acid	Iron Control					
			Water	7732-18-5	55.50000	0.02544	None
			Methanol	67-56-1	12.70000	0.00584	None
			Poly(ethylene Oxide)	25322-68-3	9.10000	0.00417	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00417	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00417	None
			Isopropanol	67-63-0	4.60000	0.00209	None
			Sodium Erythorbate	6381-77-7	100.00000	0.00025	None
			Water	7732-18-5	54.50000	0.00019	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00005	None
			Isopropanol	67-63-0	13.60000	0.00005	None
			Methanol	67-56-1	9.00000	0.00003	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	None
FR-986, Cationic Friction Reducer	Cimarron Acid	Friction Reducer					
			Water	7732-18-5	50.00000	0.00511	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00187	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00172	None
			Phosphoric Acid	7664-38-2	16.80000	0.00172	None
			Ethylene Glycol	107-21-1	12.70000	0.00130	None
			Methanol	67-56-1	3.60000	0.00037	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.

* 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)

Section 20
34S 4W

JOHN 3404 1-20H

PETER 3404 2-20H

PETER 3404 1-20H



NULIK 3404 1-29H

NULIK 3404 2-29H

NULIK 3404 3-29H



WINDSOR SWD 3404 1-29

Miss Entry: 4541'
-97.774167 37.066504

Top Perf: 4898'
-97.774204 37.065640

Section 29
34S 4W

Sumner County

Bottom Perf: 9155'
-97.773949 37.054010

BHL: 9214'
-97.773954 37.053882

401' FSL

2411' FEL

Section 32
34S 4W



Actual Bottom-Hole Location of Nulik 3404 2-29H
T&R: 34S 4W
Section: 29, 2411' FEL & 401' FSL
-97.773954 37.053882

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Dory Deines

Draft Date: 9/10/2014

Drawing Name/Number:

Addendum_Nulik 3404 2-29H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502