



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1167776
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: _____



1167776

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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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Milly 3020 1-19H
Doc ID	1167776

All Electric Logs Run

Nuclear
Resistivity
Prizm
Mud

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Milly 3020 1-19H
Doc ID	1167776

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8459-8565	36 bbls 15% HCL acid; 5598 bbls fresh slickwater; TLTR 4692 bbls	
5	8248-8422	36 bbls 15% HCL acid; 6631 bbls fresh slickwater; TLTR 10569 bbls	
5	7967-8112	36 bbls 15% HCL acid; 5432 bbls fresh slickwater; TLTR 15201 bbls.	
5	7726-7875	36 bbls 15% HCL acid; 5516 bbls fresh slickwater; TLTR 19652 bbls	
5	7530-7677	36 bbls 15% HCL acid; 6416 bbls fresh slickwater; TLTR 25306 bbls	
5	7297-7418	36 bbls 15% HCL acid; 5369 bbls fresh slickwater; TLTR 29596 bbls	
5	7059-7216	36 bbls 15% HCL acid; 6254 bbls fresh slickwater; TLTR 37774 bbls	
5	6563-6699	36 bbls 15% HCL acid; 5471 bbls fresh slickwater; TLTR 39177 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Milly 3020 1-19H
Doc ID	1167776

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6364-6508	36 bbls 15% HCL acid; 5409 bbls fresh slickwater; TLTR 43409 bbls	
5	6058-6274	36 bbls 15% HCL acid; 4831 bbls fresh slickwater; TLTR 47603 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Milly 3020 1-19H
Doc ID	1167776

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	110	grout	10	none
Surface	12.25	8.625	24	744	35:65 Poz/C	430	D903 61.1 lb/sk; D035 25.9 lb/sk; D020 6%; S001 2%; S130 0.13 lb/sk
Intermediate	7	5.5	17	6250	50:50 PozH/ H	720	D013 .13%; D909 94 lb/sk; D035 37 lb/sk; D013 .17%; D042 2 lb/sk; D065 .1%; D079 .2%; D112 .6%; D020 4%; D909 47 lb/sk

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Milly 3020 1-19H
Doc ID	1167776

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production	7	4.5	11.6	8695	50:50 PozH/ H	200	D013 .13%; D909 94 lb/sk; D035 37 lb/sk; D013 .17%; D042 2 lb/sk; D065 .1%; D079 .2%; D112 .6%; D020 4%; D909 47 lb/sk

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 20, 2013

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

Re: ACO1
API 15-097-21765-00-00
Milly 3020 1-19H
SW/4 Sec.19-30S-20W
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Chelsey Green

Section 13
30S 21W

Section 18
30S 20W

1810' FWL

492' FNL

BHL: 8695'

-99.549497 37.423007

Bottom Perf: 8565'
-99.549474 37.42267

Section 24
30S 21W

Section 19
30S 20W

Top Perf: 5548'
-99.54929 37.414357

Miss Entry: 5459'
-99.549275 37.414115

MILLY 3020 1-19H



Section 25
30S 21W

Section 30
30S 20W



Actual Bottom-Hole Location of Milly 3020 1-19H
Kiowa County, Kansas
T&R: 30S 20W
Section: 19, 1810' FWL & 492' FNL
-99.549497 37.423007

1 in = 624 ft

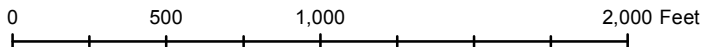


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 11/12/2013

Drawing Name/Number:

Addendum_Milly 3020 1-19H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Standard Wellpath Report
 Sandridge
 Sec 19 - 30S - 20W, Kansas
 Comanche County
 Wellbore: Milly 3020 1-19H (Actual)

Wellbore

Name	Created	Last Revised
Milly 3020 1-19H (Actual)	15-Aug-2013	28-Aug-2013

Well

Name	Government ID	Last Revised
Milly 3020 1-19H		15-Aug-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Milly 3020 1-19H	273082.0000	1695365.0000	N37 24 43.0186	W99 32 55.9065	697.02N	1905.05E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1693460.0000	272385.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 19 - 30S - 20W	1693460.0000	272385.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

<p>FINAL SURVEYS: MD 8695 is a projection to bit @ TD</p>
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Standard Wellpath Report
Sandridge
Sec 19 - 30S - 20W, Kansas
Comanche County
Wellbore: Milly 3020 1-19H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1695365.00	273082.00
3982.00	0.50	304.700	3981.95	9.89N	14.28W	==>	9.89	1695350.72	273091.89
4022.00	0.40	305.800	4021.95	10.07N	14.54W	0.25	10.07	1695350.46	273092.07
4052.00	1.00	334.500	4051.95	10.37N	14.74W	2.26	10.37	1695350.26	273092.37
4082.00	2.70	354.400	4081.93	11.31N	14.92W	5.97	11.31	1695350.08	273093.31
4112.00	5.90	357.600	4111.84	13.55N	15.05W	10.69	13.55	1695349.95	273095.55
4139.00	9.30	357.600	4138.60	17.12N	15.20W	12.59	17.12	1695349.80	273099.12
4169.00	11.70	358.800	4168.10	22.58N	15.37W	8.03	22.58	1695349.63	273104.58
4199.00	13.40	0.500	4197.38	29.10N	15.40W	5.80	29.10	1695349.60	273111.10
4229.00	14.90	1.000	4226.47	36.44N	15.30W	5.02	36.44	1695349.70	273118.43
4260.00	15.20	359.400	4256.40	44.48N	15.28W	1.65	44.48	1695349.72	273126.48
4290.00	15.40	358.400	4285.34	52.40N	15.43W	1.10	52.40	1695349.57	273134.40
4320.00	15.60	0.500	4314.25	60.41N	15.51W	1.99	60.41	1695349.49	273142.41
4350.00	16.70	2.900	4343.07	68.75N	15.25W	4.29	68.75	1695349.75	273150.75
4381.00	18.30	3.400	4372.63	78.06N	14.74W	5.18	78.06	1695350.26	273160.06
4411.00	19.50	2.800	4401.01	87.76N	14.21W	4.05	87.76	1695350.79	273169.76
4440.00	20.20	2.400	4428.29	97.60N	13.77W	2.46	97.60	1695351.23	273179.60
4471.00	21.60	2.000	4457.25	108.65N	13.35W	4.54	108.65	1695351.66	273190.65
4500.00	23.40	1.700	4484.04	119.74N	12.99W	6.22	119.74	1695352.01	273201.74
4531.00	25.30	2.200	4512.28	132.52N	12.55W	6.16	132.52	1695352.45	273214.51
4561.00	26.90	3.500	4539.22	145.70N	11.89W	5.66	145.70	1695353.11	273227.69
4590.00	28.50	4.000	4564.90	159.15N	11.01W	5.58	159.15	1695353.99	273241.14
4621.00	30.30	4.300	4591.90	174.32N	9.91W	5.83	174.32	1695355.10	273256.32
4651.00	32.00	5.400	4617.58	189.79N	8.59W	5.98	189.79	1695356.41	273271.78
4682.00	32.90	5.600	4643.74	206.34N	7.00W	2.92	206.34	1695358.01	273288.34
4712.00	34.40	5.700	4668.71	222.88N	5.36W	5.00	222.88	1695359.64	273304.88
4742.00	36.10	4.700	4693.21	240.13N	3.79W	5.98	240.13	1695361.21	273322.12
4773.00	37.40	2.200	4718.05	258.64N	2.68W	6.39	258.64	1695362.32	273340.63
4803.00	39.00	2.200	4741.62	277.18N	1.97W	5.33	277.18	1695363.03	273359.17
4833.00	41.00	1.700	4764.60	296.45N	1.32W	6.75	296.45	1695363.68	273378.44
4863.00	42.50	1.700	4786.98	316.41N	0.72W	5.00	316.41	1695364.28	273398.41
4893.00	43.80	0.800	4808.87	336.93N	0.28W	4.79	336.93	1695364.72	273418.92
4924.00	45.30	0.500	4830.96	358.67N	0.03W	4.89	358.67	1695364.97	273440.66
4953.00	46.40	0.900	4851.16	379.48N	0.22E	3.92	379.48	1695365.22	273461.47
4982.00	46.50	1.400	4871.14	400.49N	0.65E	1.30	400.49	1695365.65	273482.48
5012.00	47.70	1.200	4891.56	422.46N	1.14E	4.03	422.46	1695366.14	273504.45
5043.00	49.00	1.600	4912.16	445.62N	1.71E	4.30	445.62	1695366.71	273527.61
5073.00	50.40	1.700	4931.57	468.49N	2.37E	4.67	468.49	1695367.37	273550.48
5103.00	51.60	2.000	4950.45	491.79N	3.12E	4.07	491.79	1695368.12	273573.78
5134.00	52.80	1.700	4969.45	516.27N	3.91E	3.95	516.27	1695368.91	273598.26
5164.00	54.20	1.300	4987.29	540.38N	4.54E	4.79	540.38	1695369.54	273622.36
5194.00	56.00	0.900	5004.45	564.98N	5.01E	6.10	564.98	1695370.01	273646.96
5225.00	57.80	0.700	5021.38	590.94N	5.38E	5.83	590.94	1695370.38	273672.93
5256.00	59.10	0.700	5037.60	617.36N	5.70E	4.19	617.36	1695370.70	273699.34
5285.00	60.40	0.700	5052.21	642.41N	6.01E	4.48	642.41	1695371.01	273724.39
5315.00	60.50	0.500	5067.01	668.50N	6.28E	0.67	668.50	1695371.28	273750.48
5345.00	61.50	0.600	5081.55	694.74N	6.53E	3.35	694.74	1695371.53	273776.72
5377.00	63.00	359.100	5096.45	723.06N	6.45E	6.26	723.06	1695371.45	273805.04
5408.00	64.50	357.700	5110.16	750.85N	5.68E	6.31	750.85	1695370.68	273832.83
5440.00	66.10	357.600	5123.53	779.89N	4.48E	5.01	779.89	1695369.48	273861.87
5472.00	68.00	358.300	5136.01	809.34N	3.43E	6.27	809.34	1695368.43	273891.32
5504.00	69.50	358.000	5147.61	839.15N	2.47E	4.77	839.15	1695367.47	273921.13
5535.00	69.80	357.600	5158.39	868.19N	1.35E	1.55	868.19	1695366.35	273950.17
5567.00	71.60	357.800	5168.97	898.37N	0.14E	5.66	898.37	1695365.14	273980.34
5599.00	73.40	358.400	5178.59	928.87N	0.87W	5.90	928.87	1695364.13	274010.84
5631.00	75.20	359.500	5187.25	959.67N	1.43W	6.53	959.67	1695363.57	274041.64
5663.00	75.90	1.000	5195.23	990.66N	1.30W	5.04	990.66	1695363.70	274072.63
5694.00	76.80	1.900	5202.55	1020.77N	0.54W	4.05	1020.77	1695364.46	274102.74
5726.00	78.90	1.500	5209.28	1052.04N	0.39E	6.68	1052.04	1695365.39	274134.01
5758.00	80.60	0.500	5214.98	1083.52N	0.94E	6.14	1083.52	1695365.94	274165.49
5790.00	82.60	0.900	5219.65	1115.17N	1.33E	6.37	1115.17	1695366.33	274197.14
5821.00	84.60	0.200	5223.11	1145.98N	1.62E	6.83	1145.98	1695366.62	274227.94
5853.00	86.70	0.000	5225.53	1177.88N	1.68E	6.59	1177.88	1695366.68	274259.85
5885.00	88.70	359.800	5226.82	1209.85N	1.62E	6.28	1209.85	1695366.62	274291.82
5917.00	90.30	0.100	5227.10	1241.85N	1.59E	5.09	1241.85	1695366.59	274323.82
6012.00	90.60	359.300	5226.35	1336.85N	1.10E	0.90	1336.85	1695366.10	274418.81
6107.00	91.10	359.500	5224.94	1431.83N	0.10E	0.57	1431.83	1695365.10	274513.79
6202.00	90.60	0.100	5223.53	1526.82N	0.23W	0.82	1526.82	1695364.77	274608.78
6297.00	90.70	359.300	5222.45	1621.81N	0.73W	0.85	1621.81	1695364.27	274703.77
6392.00	90.80	359.400	5221.21	1716.80N	1.80W	0.15	1716.80	1695363.20	274798.75
6487.00	91.00	359.600	5219.72	1811.78N	2.63W	0.30	1811.78	1695362.37	274893.73
6581.00	91.50	0.400	5217.67	1905.76N	2.63W	1.00	1905.76	1695362.37	274987.71

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Milly 3020 1-19H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.000 degrees
Bottom hole distance is 4018.22 Feet on azimuth 359.66 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 28-Aug-2013

Standard Wellpath Report
Sandridge
Sec 19 - 30S - 20W, Kansas
Comanche County
Wellbore: Milly 3020 1-19H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6675.00	89.90	0.500	5216.52	1999.75N	1.89W	1.71	1999.75	1695363.11	275081.69
6771.00	90.30	1.000	5216.35	2095.74N	0.64W	0.67	2095.74	1695364.36	275177.68
6865.00	90.50	1.400	5215.70	2189.71N	1.33E	0.48	2189.71	1695366.33	275271.65
6960.00	90.70	1.400	5214.70	2284.68N	3.65E	0.21	2284.68	1695368.65	275366.62
7055.00	90.70	1.300	5213.54	2379.65N	5.89E	0.11	2379.65	1695370.89	275461.58
7149.00	90.30	1.100	5212.72	2473.62N	7.86E	0.48	2473.62	1695372.86	275555.55
7244.00	90.40	1.300	5212.14	2568.60N	9.85E	0.24	2568.60	1695374.85	275650.53
7338.00	90.10	359.700	5211.73	2662.59N	10.67E	1.73	2662.59	1695375.67	275744.52
7433.00	89.80	359.500	5211.81	2757.59N	10.00E	0.38	2757.59	1695375.00	275839.51
7528.00	89.60	359.500	5212.31	2852.58N	9.18E	0.21	2852.58	1695374.17	275934.51
7622.00	91.30	359.200	5211.57	2946.57N	8.11E	1.84	2946.57	1695373.11	276028.49
7716.00	91.90	358.200	5208.95	3040.51N	5.98E	1.24	3040.51	1695370.98	276122.43
7811.00	92.20	357.900	5205.55	3135.39N	2.75E	0.45	3135.39	1695367.75	276217.31
7907.00	92.20	358.100	5201.86	3231.26N	0.60W	0.21	3231.26	1695364.40	276313.18
8002.00	93.00	359.100	5197.55	3326.14N	2.92W	1.35	3326.14	1695362.08	276408.04
8097.00	92.70	358.700	5192.83	3421.00N	4.74W	0.53	3421.00	1695360.26	276502.91
8192.00	92.70	358.300	5188.36	3515.86N	7.23W	0.42	3515.86	1695357.77	276597.77
8288.00	92.60	358.700	5183.92	3611.73N	9.74W	0.43	3611.73	1695355.26	276693.63
8383.00	92.20	358.600	5179.94	3706.62N	11.97W	0.43	3706.62	1695353.03	276788.52
8478.00	92.30	358.000	5176.21	3801.50N	14.79W	0.64	3801.50	1695350.21	276883.40
8572.00	92.20	357.800	5172.52	3895.37N	18.23W	0.24	3895.37	1695346.77	276977.26
8644.00	92.30	357.400	5169.69	3967.25N	21.24W	0.57	3967.25	1695343.76	277049.14
8695.00	92.30	357.400	5167.65	4018.15N	23.55W	==>	4018.15	1695341.45	277100.04

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Milly 3020 1-19H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.000 degrees
Bottom hole distance is 4018.22 Feet on azimuth 359.66 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 28-Aug-2013

Standard Wellpath Report
Sandridge
Sec 19 - 30S - 20W, Kansas
Comanche County
Wellbore: Milly 3020 1-19H (Actual)

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Milly 3020 1-19H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.000 degrees
Bottom hole distance is 4018.22 Feet on azimuth 359.66 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 28-Aug-2013



BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

INVOICE

INVOICE NO.: 484
 INVOICE DATE: 08/19/2013

SANDRIDGE ENERGY
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Milly 3020
 WELL#: 1-19
 RIG #: LaMunyon 1
 Co/St: KIOWA, KS

Tkt # WY-82-1 (10370) 07/27/2013-07/28/2013

DESCRIPTION	FOOTAGE	QUANTITY	RATE	AMOUNT
7/27-28/2013 DRILLED 30" CONDUCTOR HOLE				
7/27-28/2013 20" CONDUCTOR PIPE (.250 WALL)				
7/27-28/2013 DRILLED 20" RATHOLE (PER FOOT)				
7/27-28/2013 16" CONDUCTOR PIPE (.250 WALL)				
7/27-28/2013 DRILLED 20" MOUSE HOLE (PER FOOT)				
7/27-28/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE				
7/27-28/2013 WELDING SERVICES FOR PIPE & LIDS				
7/27-28/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE				
7/27-28/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)				
7/27-28/2013 10 SACK GROUT				
7/27-28/2013 TAXABLE ITEMS				4,250.00
7/27-28/2013 BID - TAXABLE ITEMS				16,250.00

Sub Total:	20,500.00
Tax KIOWA COUNTY (7.3 %):	310.25
PLEASE PAY THIS AMOUNT:	<u>\$ 20,810.25</u>



Service Order for i-District Job 1018359

Customer Name: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING O	Person Taking Call:	Location: El Reno, OK WS	Order Date: 30-Jul-13 12:53	Job Number: 1018359		
Service Order Number:	Service Line: Cementing El Reno	Supervisor:	Legal Location:			
Well Name and Number: MILLY -3020-, 1-19	Pad/Platform:	Field:	County: Kiowa	State/Prov: Kansas		
Well Master Number: 0631481922	API/UWI: 0631481922	Rig Name: LAMUNYON DRLG LLC #1	Well Age: New	Sales Engineer: Meshall Thomas		
Job Type: Cementing El Reno – Surface	Time Well Ready:	Deviation: 0 deg	Hole Size: 12.25 in	Well MD: 750 ft		
Well TVD: 750 ft	BHP: 500 psi	BHST: 89 °F	BHCT: 85 °F	Treat Down: Casing		
Packer Type:	Packer Depth:	Min/Max Densities: Lead: 11.9/12.9 ppg Tail: 14.3/15.3 ppg	HHP on Location:	Max Allowed Pressure: 5000 psi		
Max Allowed Ann Pressure:		Job Stage Description: 8 5/8" Surface	FTL Ticket/Quote Number : CDL7-00305			
Casing/Tubing			Service Instructions:			
String Type	Depth	Size	Weight	Grade	Thread	
Casing	750 ft	8.625 in	24 lb/ft	J-55	LTC	
			Provide equipment, materials, services and personnel to safely cement 8 5/8" surface casing per customer request.			
			Pump 10 bbl fresh water, 310 sks lead @ 12.40 ppg. 120 sks tail @ 14.80 ppg, drop top plug and displace per client specifications.			
Client Contact						
Name	Voice	Fax	Email	Title	Company	Notes
Bill/Paul	281-436-6503					
Notes:						
TOC: Surface -- volumes based on 12.25" OH + 150%XS						
Equipment: 8 5/8" HM and QC, top and bottom plugs, water hoses, air hoses, mud hoses (contingency), washup hoses (contingency), D110, D047, 1 Pump, 2 ABTs, 300ft topout iron						
GET FIELD TICKET STAMPED.						
Directions:						
From Buffalo Okla go north on Hwy 183 25.5 miles continue north on Hwy 34 18.5 miles turn east on RD "B" 4.5 miles turn south on First Ave 1.7 miles turn south 1.0 miles to location						

Materials			
Name	Description	Quantity	Density
Lead Slurry	310 sks 35:65 Poz:C + adds	623.10 ft3	12.40 lb/gal
Tail Slurry	120 sks Class C + adds	159.60 ft3	14.80 lb/gal

Fluid Systems:

Lead Slurry				
310 sks 35:65 Poz:C + adds				
<i>Sacks Of:</i>	Blend		<i>Total Blend/Cem:</i>	26,970.00 lb
<i>Sack Weight:</i>	87.00 lb		<i>Sacks Blend/Cem:</i>	310.00 sks
<i>Yield:</i>	2.01 ft ³ /sk		<i>Final Fluid Density:</i>	12.40 lb/gal
<i>Mix Water:</i>	11.12 gal/sk		<i>Base Fluid Den:</i>	
Code	Conc	Design	Total	Load out with excess
D903	61.100 lb/sk	WTSK	18,941.00 lb	18,941.00 lb
D035	25.900 lb/sk	WTSK	8,029.00 lb	8,029.00 lb
D020	6.000 %	BWOB	1,618.20 lb	1,618.20 lb
S001	2.000 %	BWOB	539.40 lb	539.40 lb
D130	0.130 lb/sk	WTSK	40.30 lb	40.30 lb

Tail Slurry				
120 sks Class C + adds				
<i>Sacks Of:</i>	Cement		<i>Total Blend/Cem:</i>	11,280.00 lb
<i>Sack Weight:</i>	94.00 lb		<i>Sacks Blend/Cem:</i>	120.00 sks
<i>Yield:</i>	1.33 ft ³ /sk		<i>Final Fluid Density:</i>	14.80 lb/gal
<i>Mix Water:</i>	6.35 gal/sk		<i>Base Fluid Den:</i>	
Code	Conc	Design	Total	Load out with excess
D903	94.000 lb/sk	WTSK	11,280.00 lb	11,280.00 lb
D130	0.125 lb/sk	WTSK	15.00 lb	15.00 lb



Dispatch Report for i-District Job: 1019381

Customer Name: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING O	Person Taking Call:	Location: El Reno, OK WS	Order Date: 8/2/2013	Job Number: 1019381		
Service Order Number:	Service Line: Cementing El Reno	Supervisor:	Legal Location:			
Well Name and Number: MILLY -3020- - 1-19	Pad/Platform:	Field:	County: Kiowa	State/Prov: Kansas		
Well Master Number: 0631481922	API/UWI: 15097217650000	Rig Name: LAMUNYON DRLG LLC #1	Well Age:	Sales Engineer:		
Job Type: Cementing El Reno – Production	Time Well Ready:	Deviation: 0 deg	Hole Size:	Well MD:		
Well TVD:	BHP:	BHST:	BHCT:	Treat Down: Casing		
Packer Type:	Min and Max Densities: Lead: 13.4 – 13.8 ppg Tail: 15.4-15.8 ppg	Well Head Connection: 5 ½" CEMENT HEAD	HHP on Location:	Max Allowed Pressure: 5000 PSI		
Max Allowed Ann Pressure:		No of Stages/SubJobs: First stage: set packer; second stage: cement	FTL Ticket/Quote Number : C1YQ-00323			
Client Contact						
Name	Voice	Fax	Email	Title	Company	Notes
Bill/Paul	281-436-6503					
Casing/Tubing					Service Instructions:	
String Type	Depth	Size	Weight	Grade	Provide equipment, materials, services and personnel to safely cement 5 1/2" vertical production casing per customer request. Pump 710 sks 50:50 Poz:H @ 13.60 ppg, 210 sks Class H @ 15.60 ppg, drop top plug and displace per client specifications.	
Casing	6250 ft	5.499 ft	17 lb/ft	L-80		
Casing	8695 ft	4.501 ft	11.6 lb/ft	N-80		
Notes: TOC: 8695' -- volumes based on 7.875" OH + 40% XS . Equipment: 5 1/2" HM and QC, top and bottom plugs, air hoses, water hoses, mud hoses and washup hoses, D047, 1 pump, 3 ABTs , bring D110 JUST IN CASE GET FIELD TICKET STAMPED SEE PROCEDURE: first set packer and then cement						
Directions: From Buffalo Okla go north on Hwy 183 25.5 miles continue north on Hwy 34 18.5 miles turn east on RD "B" 4.5 miles turn south on First Ave 1.7 miles turn south 1.0 miles to location						

Fluid Systems:

TAIL SLURRY				
210 SKS CLASS H @ 15.60 PPG				
Sacks Of:	Cement	Total Blend/Cem:	19740 lb	
Sack Weight:	94 lb	Sacks Blend/Cem:	210 sks	
Yield:	1.19 ft3/sk	Final Fluid Density:	15.6 lb/gal	
Mix Water:	5.313 gal/sk	Volume:	249.9 ft3	
Code	Conc	Design	Total by design	Load out with excess
D013	0.13 %	BWOC	25.662 lb	25.662 lb
D909	94 lb/sk	WTSK	19740 lb	19740 lb

LEAD SLURRY				
710 SKS 50:50 POZ:H @ 13.60 PPG				
Sacks Of:	Cement	Total Blend/Cem:	59640 lb	
Sack Weight:	84 lb	Sacks Blend/Cem:	710 sks	
Yield:	1.45 ft3/sk	Final Fluid Density:	13.6 lb/gal	
Mix Water:	6.874 gal/sk	Base Fluid Den:		
Mix Fluid:		Volume:	1029.5 ft3	
Code	Conc	Design	Total by design	Load out with excess
D035	37 lb/sk	WTSK	26270 lb	26270 lb
D013	0.17 %	BWOB	101.388 lb	101.388 lb
D042	2 lb/sk	WTSK	1420 lb	1420 lb
D065	0.1 %	BWOB	59.64 lb	59.64 lb
D079	0.2 %	BWOB	119.28 lb	119.28 lb
D112	0.6 %	BWOB	357.84 lb	357.84 lb
D020	4 %	BWOB	2385.6 lb	2385.6 lb
D909	47 lb/sk	WTSK	33370 lb	33370 lb

RECEIVED

SEP 25 2013

HALLIBURTON

Cementing Job Summary

REGULATORY DEPT

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3092635	Quote #:	Sales Order #: 900757158
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: CM, Kerry	
Well Name: Milly 3020	Well #: 1-19H	API/UWI #: 15-097-21765	
Field: EXCEL	City (SAP): MULLINVILLE	County/Parish: Kiowa	State: Kansas
Legal Description: Section 19 Township 30S Range 20W			
Contractor: WORKOVER		Rig/Platform Name/Num:	
Job Purpose: Squeeze Hole in Casing			
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: GUSTKE, GREGORY		Srvc Supervisor: RODRIGUEZ, EDGAR	MBU ID Emp #: 442125

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	3	267804	RAMIREZ, JORGE M.	3	498481	RODRIGUEZ, EDGAR Alejandro	3	442125

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/19/2013	3	3						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	19 - Sep - 2013	03:00	CST
Form Type		BHST	Job Started	19 - Sep - 2013	08:00	CST
Job depth MD	5915. ft	Job Depth TVD	Job Started	19 - Sep - 2013	10:02	CST
Water Depth		Wk Ht Above Floor	Job Completed	19 - Sep - 2013	11:32	CST
Perforation Depth (MD)	From	To	Departed Loc	19 - Sep - 2013	12:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Retainer	Unknown							5915.	5916.		
Intermediate Casing	Unknown		7.	6.276	26.		P-110	.	5954.		
Tubing	Unknown		2.875	2.323	7.9	PH-6 - HYDRIL	P-110	.	5915.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 3092635	Quote #:	Sales Order #: 900757158
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: CM, Kerry	
Well Name: Milly 3020		Well #: 1-19H	API/UWI #: 15-097-21765
Field: EXCEL	City (SAP): MULLINVILLE	County/Parish: Kiowa	State: Kansas
Legal Description: Section 19 Township 30S Range 20W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num:	
Job Purpose: Squeeze Hole in Casing			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: GUSTKE, GREGORY		Srvc Supervisor: RODRIGUEZ, EDGAR	MBU ID Emp #: 442125

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/19/2013 03:00							DISPATCH CALLED CEMENT CREW OUT FOR JOB. SANDRIDGE ENERGY MILLY 3020 #1-19H SQUEEZE HOLE IN CASING.
Other	09/19/2013 05:00							LOAD EQUIPMENT
Depart Yard Safety Meeting	09/19/2013 06:20							DISCUSSED ALL ROUTES TO TAKE AND THE POSSIBLE HAZARDS ON THE ROAD. DISCUSSED ALL PLANNED STOPS.
Crew Leave Yard	09/19/2013 06:30							
Arrive At Loc	09/19/2013 08:00							
Assessment Of Location Safety Meeting	09/19/2013 08:10							GOT NUMBERS FROM CUSTOMER REP AND HALLIBURTON TOOLMAN. TUBING=2 7/8 7.9# CASING= 5 1/2 17# P-110 RETAINER@5915
Pre-Rig Up Safety Meeting	09/19/2013 08:20							DISCUSS PINCH POINTS. LIFTING PROCEDURES. RIG UP AREAS.
Rig-Up Equipment	09/19/2013 08:30							
Rig-Up Completed	09/19/2013 09:30							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 305021

Ship To # : 3092635

Quote # :

Sales Order # : 900757158

SUMMIT Version: 7.3.0106

Thursday, September 19, 2013 11:56:00

Pre-Job Safety Meeting	09/19/2013 09:45							DISCUSSED HAZARDS, JOB STEPS WITH ALL ON LOCATION. WENT OVER NUMBERS, PUMPING RATES, AND PRESSURES WITH CUSTOMER REP. HAD EVERYBODY INVOLVED SIGN HES SAFETY SHEET.
Start Job	09/19/2013 10:02							
Test Lines	09/19/2013 10:07					2144.0		PRESSURE TEST TO 2000 PSI.
Pressure Up Annulus	09/19/2013 10:11		1		3	588.0		500 PSI ON BACKSIDE
Injection Test	09/19/2013 10:15		2		10	2788.0		PUMPED AT 2 BPM. PUMPED A TOTAL OF 10 BBLS OF FRESH WATER
Pump Cement	09/19/2013 10:23		2		42	2630.0		200 SKS OF PREM. H CMT (42 BBLS @15.6)
Shutdown	09/19/2013 10:45							
Pump Displacement	09/19/2013 10:46		1.5		30.5	2233.0		FRESH WATER
Shutdown	09/19/2013 11:13							THEY WILL STING OUT SO WE CAN REVERS OUT
Standby Rig	09/19/2013 11:14							STINGING OUT
Reverse Circ Well	09/19/2013 11:15		3		40	867.0		WILL REVERSE CIRCULATE. WILL START @ 2 BPM AND WORK IT UP TO 3 BPM PER WEATHERFORD TOOLMAN.
Shutdown	09/19/2013 11:29							PUMPED TOTAL OF 40 BBLS OF FRESH WATER TO REVERSE
End Job	09/19/2013 11:32							
Pre-Rig Down Safety Meeting	09/19/2013 11:35							DISCUSSED ALL RED ZONES. PROPER LIFTING. SPOTTING EQUIPMENT OUT OF LOCATION
Rig-Down Equipment	09/19/2013 11:40							
Rig-Down Completed	09/19/2013 11:50							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart Location Safety Meeting	09/19/2013 11:50							DISCUSSED ALL ROUTES AND POTENTIAL HAZARDS ON THE WAY BACK TO THE YARD.
Crew Leave Location	09/19/2013 12:00							THANK YOU EDGAR A. RODRIGUEZ AND HALLIBURTON CREW.