



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1192767
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: _____

1192767

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Cather 3507 2-4H
Doc ID	1192767

All Electric Logs Run

Boresight
Prizm
Porosity
Resistivity
Mud

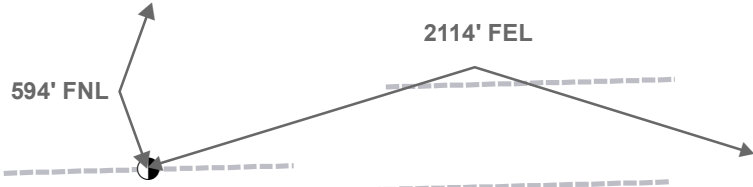
Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Cather 3507 2-4H
Doc ID	1192767

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7726-7862	1500 gals 15% HCl, 7635 bbls sw, TLTR 8649 bbls	
5	7380-7642	1500 gals 15% HCl, 6987 bbls sw, TLTR 15844 bbls	
5	6992-7330	1500 gals 15% HCl, 5859 bbls sw, TLTR 22187 bbls	
5	6524-6832	1500 gals 15% HCl, 7266 bbls sw, TLTR 29518 bbls	
5	6246-6432	1500 gals 15% HCl, 6830 bbls sw, TLTR 36406 bbls	
5	5837-6122	1500 gals 15% HCl, 6722 bbls sw, TLTR 43202 bbls	
5	5519-5712	1500 gals 15% HCl, 6525 bbls sw, TLTR 49774 bbls	
5	5084-5306	1500 gals 15% HCl, 4927 bbls sw, TLTR 54701 bbls	

Section 33
34S 7W

Section 34
34S 7W



BHL: 8898'
-98.081148 37.034701

Bottom Perf: 7726'
-98.081153 37.03163

Section 4
35S 7W

Harper County

Section 3
35S 7W

Top Perf: 5084'
-98.081196 37.024317

Miss Entry: 5074'
-98.081196 37.024317

CATHER 3507 2-4H

CATHER 3507 3-4H



CATHER 3507 4-4H

SHELBY 2-3 SWD



SHELBY 1-3 SWD



Section 9
35S 7W

RED FERN 3507 2-16H

RED FERN 3507 3-16H

Section 10
35S 7W



Actual Bottom-Hole Location of Cather 3507 2-4H
Harper County, Kansas
T&R: 35S 7W
Section: 4, 2114' FEL & 594' FNL
-98.081148 37.034701

1 in = 667 ft

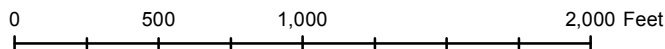


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/5/2014

Drawing Name/Number:

Addendum_Cather 3507 2-4H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502



Standard Wellpath Report
Sandridge
Sec 4 - 35S - 7W, Kansas
Harper County
Wellbore: Cather 3507 2-4H (Actual)

Wellbore

Name	Created	Last Revised
Cather 3507 2-4H (Actual)	6-Nov-2013	25-Nov-2013

Well

Name	Government ID	Last Revised
Cather 3507 2-4H		6-Nov-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Cather 3507 2-4H	129894.0000	2122373.0000	N37 1 21.5179	W98 4 51.1295	222.99N	2152.88W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2124526.0000	129671.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 4 - 35S - 7W	2124526.0000	129671.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

FINAL SURVEYS: MD 8898 is a projection to bit @ TD



Standard Wellpath Report
Sandridge
Sec 4 - 35S - 7W, Kansas
Harper County
Wellbore: Cather 3507 2-4H (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	2122373.00	129894.00
965.00	0.30	282.000	965.00	0.53N	2.47W	0.03	0.46	2122370.53	129894.53
1424.00	0.30	170.800	1423.99	0.41S	3.45W	0.11	-0.51	2122369.55	129893.59
1882.00	0.20	37.900	1881.99	0.96S	2.77W	0.10	-1.04	2122370.23	129893.04
2357.00	0.20	357.000	2356.99	0.52N	2.31W	0.03	0.45	2122370.69	129894.52
2832.00	0.30	9.800	2831.98	2.57N	2.14W	0.02	2.51	2122370.86	129896.57
3306.00	0.20	36.100	3305.98	4.46N	1.44W	0.03	4.42	2122371.56	129898.46
3781.00	0.50	5.100	3780.97	7.20N	0.77W	0.07	7.17	2122372.23	129901.20
4021.00	0.30	57.400	4020.96	8.58N	0.14W	0.16	8.57	2122372.86	129902.58
4034.00	0.40	69.900	4033.96	8.61N	0.07W	0.06	8.61	2122372.93	129902.61
4066.00	0.50	55.300	4065.96	8.73N	0.15E	0.47	8.73	2122373.15	129902.73
4097.00	2.10	11.000	4096.95	9.36N	0.37E	5.73	9.37	2122373.37	129903.37
4129.00	4.40	4.700	4128.90	11.16N	0.58E	7.26	11.18	2122373.58	129905.16
4161.00	6.60	1.200	4160.75	14.23N	0.72E	6.95	14.24	2122373.72	129908.23
4192.00	9.00	0.900	4191.46	18.43N	0.79E	7.74	18.45	2122373.79	129912.43
4224.00	11.40	359.500	4222.95	24.10N	0.81E	7.54	24.11	2122373.81	129918.10
4256.00	14.00	0.200	4254.17	31.13N	0.79E	8.14	31.14	2122373.79	129925.13
4287.00	16.40	359.100	4284.08	39.26N	0.74E	7.80	39.26	2122373.74	129933.26
4319.00	18.70	359.500	4314.59	48.91N	0.62E	7.20	48.91	2122373.62	129942.91
4351.00	21.00	0.700	4344.69	59.77N	0.65E	7.30	59.77	2122373.65	129953.78
4382.00	23.40	2.100	4373.39	71.48N	0.94E	7.93	71.48	2122373.94	129965.48
4414.00	25.40	3.200	4402.53	84.68N	1.55E	6.41	84.69	2122374.55	129978.69
4446.00	27.50	2.900	4431.18	98.92N	2.31E	6.58	98.94	2122375.31	129992.92
4477.00	30.40	3.200	4458.30	113.90N	3.11E	9.37	113.94	2122376.11	130007.90
4509.00	33.50	2.700	4485.45	130.81N	3.98E	9.72	130.87	2122376.98	130024.81
4541.00	36.40	2.300	4511.68	149.12N	4.78E	9.09	149.20	2122377.78	130043.13
4572.00	39.60	1.500	4536.10	168.19N	5.41E	10.44	168.28	2122378.41	130062.20
4604.00	42.40	1.100	4560.25	189.18N	5.88E	8.79	189.27	2122378.88	130083.19
4636.00	45.00	0.900	4583.38	211.28N	6.26E	8.14	211.37	2122379.26	130105.29
4667.00	47.00	1.200	4604.92	233.58N	6.67E	6.49	233.67	2122379.67	130127.59
4699.00	49.60	1.200	4626.20	257.46N	7.17E	8.13	257.56	2122380.17	130151.48
4731.00	52.70	1.300	4646.27	282.37N	7.72E	9.69	282.48	2122380.72	130176.39
4762.00	56.50	1.700	4664.23	307.63N	8.38E	12.30	307.74	2122381.38	130201.65
4794.00	60.00	1.100	4681.06	334.83N	9.04E	11.05	334.95	2122382.04	130228.85
4826.00	62.80	0.800	4696.38	362.92N	9.51E	8.79	363.04	2122382.51	130256.94
4857.00	66.30	1.100	4709.70	390.90N	9.97E	11.32	391.03	2122382.97	130284.92
4889.00	69.60	1.800	4721.71	420.55N	10.73E	10.51	420.68	2122383.73	130314.57
4921.00	72.70	2.100	4732.05	450.81N	11.76E	9.73	450.96	2122384.76	130344.83
4952.00	75.70	2.100	4740.49	480.61N	12.85E	9.68	480.78	2122385.85	130374.64
4984.00	78.40	2.000	4747.66	511.78N	13.97E	8.44	511.97	2122386.97	130405.80
5016.00	80.90	1.700	4753.41	543.24N	14.98E	7.87	543.44	2122387.98	130437.27
5047.00	82.90	1.600	4757.77	573.91N	15.86E	6.46	574.13	2122388.87	130467.94
5079.00	84.70	0.800	4761.23	605.72N	16.53E	6.15	605.94	2122389.53	130499.75
5110.00	85.60	0.400	4763.85	636.60N	16.85E	3.18	636.83	2122389.85	130530.64
5142.00	85.70	0.600	4766.28	668.51N	17.13E	0.70	668.73	2122390.13	130562.55
5174.00	86.50	1.100	4768.46	700.43N	17.61E	2.95	700.65	2122390.61	130594.47
5205.00	87.00	0.500	4770.21	731.38N	18.04E	2.52	731.60	2122391.04	130625.42
5237.00	87.00	0.200	4771.89	763.34N	18.23E	0.94	763.55	2122391.23	130657.38
5267.00	86.90	0.500	4773.48	793.29N	18.42E	1.05	793.50	2122391.42	130687.34
5300.00	87.00	0.200	4775.24	826.25N	18.62E	0.96	826.44	2122391.62	130720.29
5332.00	86.90	0.400	4776.94	858.20N	18.79E	0.70	858.39	2122391.79	130752.25
5363.00	86.80	0.300	4778.65	889.15N	18.97E	0.46	889.33	2122391.98	130783.20
5395.00	86.80	0.300	4780.43	921.10N	19.14E	==>	921.27	2122392.14	130815.15
5427.00	86.80	0.600	4782.22	953.05N	19.39E	0.94	953.22	2122392.39	130847.10
5455.00	86.90	0.100	4783.76	981.01N	19.56E	1.82	981.17	2122392.56	130875.06
5541.00	88.50	359.700	4787.21	1066.94N	19.41E	1.92	1067.06	2122392.41	130960.99
5632.00	88.40	359.800	4789.67	1157.90N	19.02E	0.16	1157.98	2122392.02	131051.96
5724.00	89.60	0.800	4791.28	1249.88N	19.50E	1.70	1249.93	2122392.50	131143.95
5815.00	90.40	0.900	4791.28	1340.87N	20.85E	0.89	1340.92	2122393.85	131234.95
5908.00	90.90	1.400	4790.22	1433.85N	22.71E	0.76	1433.92	2122395.72	131327.93
6001.00	89.90	2.600	4789.57	1526.79N	25.96E	1.68	1526.91	2122398.96	131420.87
6096.00	90.30	2.400	4789.41	1621.69N	30.10E	0.47	1621.90	2122403.11	131515.78
6188.00	90.70	1.900	4788.60	1713.63N	33.55E	0.70	1713.89	2122406.56	131607.72
6279.00	90.00	1.600	4788.05	1804.58N	36.33E	0.84	1804.89	2122409.34	131698.68
6371.00	90.50	1.300	4787.65	1896.55N	38.66E	0.63	1896.88	2122411.66	131790.65
6463.00	89.60	2.300	4787.56	1988.50N	41.55E	1.46	1988.88	2122414.55	131882.61
6554.00	89.90	1.900	4787.96	2079.44N	44.89E	0.55	2079.88	2122417.89	131973.55
6646.00	91.20	2.500	4787.08	2171.37N	48.42E	1.56	2171.87	2122421.42	132065.49
6738.00	90.60	2.400	4785.63	2263.27N	52.35E	0.66	2263.84	2122425.35	132157.39
6830.00	91.60	1.700	4783.87	2355.19N	55.64E	1.33	2355.82	2122428.64	132249.32

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Cather 3507 2-4H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 1.620 degrees
Bottom hole distance is 4423.31 Feet on azimuth 1.48 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 25-Nov-2013



Standard Wellpath Report
 Sandridge
 Sec 4 - 35S - 7W, Kansas
 Harper County
 Wellbore: Cather 3507 2-4H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6921.00	91.30	1.700	4781.56	2446.12N	58.34E	0.33	2446.79	2122431.34	132340.26
7013.00	91.30	1.700	4779.48	2538.06N	61.07E	==>	2538.77	2122434.07	132432.20
7104.00	91.20	1.600	4777.49	2629.00N	63.69E	0.16	2629.75	2122436.69	132523.14
7199.00	91.80	1.500	4775.01	2723.93N	66.26E	0.64	2724.72	2122439.26	132618.08
7294.00	91.70	2.500	4772.10	2818.83N	69.57E	1.06	2819.67	2122442.57	132712.98
7389.00	89.90	3.100	4770.78	2913.70N	74.21E	2.00	2914.63	2122447.21	132807.86
7484.00	90.50	3.300	4770.45	3008.55N	79.51E	0.67	3009.60	2122452.52	132902.72
7579.00	88.70	2.000	4771.11	3103.44N	83.90E	2.34	3104.57	2122456.91	132997.61
7674.00	89.30	1.200	4772.77	3198.39N	86.56E	1.05	3199.56	2122459.56	133092.57
7769.00	90.20	0.500	4773.18	3293.38N	87.97E	1.20	3294.55	2122460.97	133187.56
7864.00	90.60	1.000	4772.52	3388.37N	89.21E	0.67	3389.53	2122462.21	133282.55
7959.00	91.20	0.700	4771.03	3483.34N	90.62E	0.71	3484.51	2122463.62	133377.53
8054.00	89.50	0.500	4770.45	3578.33N	91.61E	1.80	3579.49	2122464.62	133472.53
8149.00	89.40	2.300	4771.36	3673.30N	93.93E	1.90	3674.48	2122466.94	133567.50
8243.00	88.90	2.000	4772.75	3767.22N	97.46E	0.62	3768.47	2122470.47	133661.43
8338.00	89.20	1.300	4774.33	3862.17N	100.20E	0.80	3863.45	2122473.20	133756.38
8433.00	90.80	1.300	4774.33	3957.14N	102.35E	1.68	3958.45	2122475.36	133851.36
8528.00	90.30	359.900	4773.42	4052.13N	103.35E	1.56	4053.43	2122476.35	133946.35
8623.00	90.20	1.000	4773.00	4147.12N	104.09E	1.16	4148.41	2122477.10	134041.35
8718.00	90.40	1.800	4772.50	4242.09N	106.41E	0.87	4243.40	2122479.42	134136.32
8812.00	91.70	2.600	4770.78	4336.00N	110.02E	1.62	4337.38	2122483.03	134230.24
8850.00	92.50	2.600	4769.39	4373.94N	111.74E	2.11	4375.35	2122484.75	134268.18
8898.00	92.50	2.600	4767.30	4421.84N	113.92E	==>	4423.30	2122486.92	134316.09

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Cather 3507 2-4H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 1.620 degrees
 Bottom hole distance is 4423.31 Feet on azimuth 1.48 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 25-Nov-2013



Standard Wellpath Report
Sandridge
Sec 4 - 35S - 7W, Kansas
Harper County
Wellbore: Cather 3507 2-4H (Actual)

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Cather 3507 2-4H 0.00ft above Mean Sea Level)
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BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-154-1
 TICKET DATE: 11/07/2013

ELECTRONIC

SANDRIDGE ENERGY
 ***** BILL IN ADP!! *****
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Cather 3507
 WELL#: 2-4H
 RIG #: Lariat 45
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
11/7/2013 DRILLED 30" CONDUCTOR HOLE			
11/7/2013 20" CONDUCTOR PIPE (.250 WALL)			
11/7/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
11/7/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
11/7/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
11/7/2013 16" CONDUCTOR PIPE (.250 WALL)			
11/7/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
11/7/2013 WELDING SERVICES FOR PIPE & LIDS			
11/7/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
11/7/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
11/7/2013 10 YDS OF 10 SACK GROUT			6,650.00
11/7/2013 TAXABALE ITEMS			11,850.00
11/7/2013 BID - TAXABLE ITEMS			
11/7/2013 HOLE COVER			
		Sub Total:	18,500.00
		Tax HARPER COUNTY (6.15 %):	408.98
		TICKET TOTAL:	<u>\$ 18,908.98</u>

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____

JOB SUMMARY			PROJECT NUMBER SOK 3177	TICKET DATE 11/13/13
COUNTY Harper	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Claude Hallmark	
LEASE NAME Cather 3507	Well No. 2-4H	JOB TYPE Surface	EMPLOYEE NAME NATHAN COTTA	

EMP NAME					
NATHAN COTTA		0			
VONTREY W					
WALLACE B					
FLO H					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 800'

	Called Out	On Location	Job Started	Job Completed
Date	11.13.13	11.13.13.	11.13.13	11.13.13
Time	600	130	332	500

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		36#	9"		Surface	800'
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	800'
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Water	BBL.	10 8.33
Spacer type		BBL.	
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In
Perfpac Balls		Qty.	
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11.13.13.	3.5	11.13.13	2.5	Surface
Total	3.5	Total	2.5	

Pressures			
MAX	1,500 PSI	AVG	200
Average Rates in BPM			
MAX	6 BPM	AVG	5
Cement Left in Pipe			
Feet	45	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	225	TEX Lite Premium Plus 65 (6% Gel)	2% Calcium Chloride - 1/2pps Cello-Flake - .5% C-41P	11.11	2.01	12.40
2	140	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake	6.32	1.32	14.80
3	0	0		0	0.00	0.00

Summary					
Preflush	10.00	Type:	Fresh Water		
Breakdown	MAXIMUM	1,500 PSI	Preflush:	BBI	
	Lost Returns-N	NO/FULL	Load & Bkdn:	Gal - BBI	N/A
	Actual TOC	SURFACE	Excess /Return	BBI	56
Average	Bump Plug PSI:	720	Calc. TOC:	SURFACE	Actual Disp.
	5 Min	10 Min	Final Circ.	PSI:	56.00
		15 Min	Cement Slurry:	BBI	Disp:Bbl
			Total Volume	BBI	186.50

CUSTOMER REPRESENTATIVE Bill Jordan SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 3193	TICKET DATE 11/18/13
COUNTY Harper	STATE Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Bill Torbett	
LEASE NAME Cather 3507	Well No. 2-4H	JOB TYPE Intermediate	EMPLOYEE NAME Arthur Setzer	

EMP NAME					
Arthur Setzer		0			
Jared Green					
Robert Stonehocker					
Rocky Anthis					

Form. Name _____ Type: _____
 Packer Type _____ Set At **4,071**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **5495**

Date	Called Out 11/18/2013	On Location 11/18/2013	Job Started 11/18/2013	Job Completed 11/18/2013
Time	0400	1100	1600	1800

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,498	5,000
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole				8 1/4"	Surface	5,495	Shots/Ft.
Perforations							
Perforations							
Perforations							

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Water	BBL.	20	8.33
Spacer type	Caustic	BBL.	10	8.40
Acid Type	Gal.	%		
Acid Type	Gal.	%		
Surfactant	Gal.	In		
NE Agent	Gal.	In		
Fluid Loss	Gal/Lb	In		
Gelling Agent	Gal/Lb	In		
Fric. Red.	Gal/Lb	In		
MISC.	Gal/Lb	In		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11/18	7.0	11/18	2.0	Intermediate
Total	7.0	Total	2.0	

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures		
MAX	5,000 PSI	AVG. 1700
Average Rates in BPM		
MAX	8 BPM	AVG 7
Cement Left in Pipe		
Feet	89	Reason SHOE JOINT

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives	6.93	1.43	13.60
1	230	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.4% C-41P	5.19	1.19	15.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	0.00	0.00	0.00
3	0	0				

Summary		Preflush: BBI	30.00	Type: Gel Spacer
Preflush Breakdown	MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	5,000 PSI	Excess /Return BBI	N/A	Calc. Disp Bbl 207
	NO/FULL	Calc. TOC:	2.645	Actual Disp. 207.00
	Actual TOC	Final Circ. PSI:	800	Disp:Bbl 207.00
Average	Bump Plug PSI:	Cement Slurry BBI	59.0	
ISIP	5 Min. 10 Min. 15 Min	Total Volume BBI	296.00	

CUSTOMER REPRESENTATIVE Bill Torbett SIGNATURE