



INVOICE

DATE	INVOICE #
9/12/2013	4202

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
EDWARDS, KS	9/11/2013	3274	HORIZON 4	BIAGGI 2520 1-28H	Due on rec...

Description
DRILLED 120' OF 30" CONDUCTOR HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 120' OF 20" CONDUCTOR PIPE FURNISHED 25' MOUSE HOLE SHUCK FURNISHED 1 LOAD(S) MUD FURNISHED WELDER AND MATERIALS FURNISHED 12 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 25' OF 14" CONDUCTOR PIPE FOR MOUSE HOLE TOTAL BID \$ 17,000.00

Sales Tax (7.3%)	\$214.66
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TOTAL	\$17,214.66
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JOB SUMMARY			PROJECT NUMBER SOK 3089	TICKET DATE 10/13/13
COUNTY Edwards	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Luis Solis	
LEASE NAME Biaggi 2520	Well No. 1-28H	JOB TYPE Surface	EMPLOYEE NAME Daniel Wells	

EMP NAME					
Daniel Wells		0			
Vontray Watkins					
Wallace Berry					
Nate Cotta					

Form. Name _____ Type: _____
Packer Type _____ Set At **0**
Bottom Hole Temp. **80** Pressure _____
Retainer Depth _____ Total Depth **1250**

	Called Out	On Location	Job Started	Job Completed
Date	10/12/2013	10/12/2013	10/13/2013	10/13/2013
Time	1400	1800	0140	0240

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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 7/8"		Surface	1,234
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	1,230
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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/12	8.0	10/13	1.0	Surface
Total	8.0	Total	1.0	

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

Pressures	
MAX	1,500 PSI
AVG.	180
Average Rates in BPM	
MAX	6 BPM
AVG	5
Cement Left in Pipe	
Feet	44.67'
Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	250	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	11.11	2.01	12.40
2	130	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80

Summary					
Preflush	_____	Type:	Fresh Water	Preflush:	BBI 10.00
Breakdown	_____	MAXIMUM	_____	Load & Bkdn:	Gal - BBI N/A
	_____	Lost Returns-N	_____	Excess /Return	BBI 40
	_____	Actual TOC	_____	Calc. TOC:	SURFACE
Average	_____	Bump Plug PSI:	830	Final Circ.	PSI: 260
ISIP	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry:	BBI 120.1
				Total Volume	BBI 222.04

CUSTOMER REPRESENTATIVE _____
SIGNATURE

JOB SUMMARY

COUNTY Edwards		State Kansas	COMPANY Sandridge Exploration & Production		PROJECT NUMBER SOK 3126	TICKET DATE 10/24/13
LEASE NAME Biaggi 2520			Well No. 1-28H	JOB TYPE Intermediate	CUSTOMER REP Luis Garza	
EMP NAME Robert Burris				EMPLOYEE NAME ROBERT BURRID		

Robert Burris	0				
Mike Hall					
Cheryl Newton					
JARED GREEN					

Form. Name _____ Type: _____

Packer Type _____ Set At **3,996**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5390**

Date	Called Out	On Location	Job Started	Job Completed
	23-Oct	23-Oct	10/24/2013	10/24/2013
Time	15:00	19:00	07:48	10:00

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	
Casing		26#	7"		
Liner					
Liner					
Tubing			0		
Drill Pipe					
Open Hole			8 1/2"	Surface	5,390
Perforations					Shots/Ft.
Perforations					
Perforations					

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	GEL	BBL.	30
Spacer type	BBL.		8.33
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	
10/23	15.0	10/24	1.2	Intermediate
Total	15.0	Total	1.2	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures	
MAX 5,000 PSI	AVG. 675
Average Rates in BPM	
MAX 8 BPM	AVG 5
Cement Left in Pipe	
Feet 89	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	130	60/60 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	Lost Returns-N _____	Actual TOC _____	Bump Plug PSI: _____
Average _____	5 Min. _____	10 Min _____	15 Min _____	Preflush: BBI _____	Load & Bkdn: Gal - BBI _____
				Excess /Return BBI _____	Calc. TOC: _____
				Final Circ. PSI: _____	Cement Slurry: BBI _____
				Total Volume BBI _____	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Sandridge

Location: Kansas Field Sec 28 - 25S - 20W Installation: Edwards County Well Biaggi 2520 1-28H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Edwards County	N37 50.24.24	W99 30.53.25	428846.00	1705857.00
Coordinate System	Kansas State Planes, Southern Zone			

Slot Data

Name	North [ft]	East [ft]	Longitude	Northing	Easting
Biaggi 2520 1-28H	350.11 N	-649.35 E	W99 31.1.39	429196.09	1705307.69
Elevation Data					
Slot - Mean Sea Level [ft]	Mean Sec Level - Mudline/Ground level [ft]		Slot - Mudline/Ground level [ft]	0.00	

Target Line: 10-28-13
Target: 4715 KBTVD @ 0 VS
90° @ 181.28 Azimuth Plane

WELL PROFILE DATA

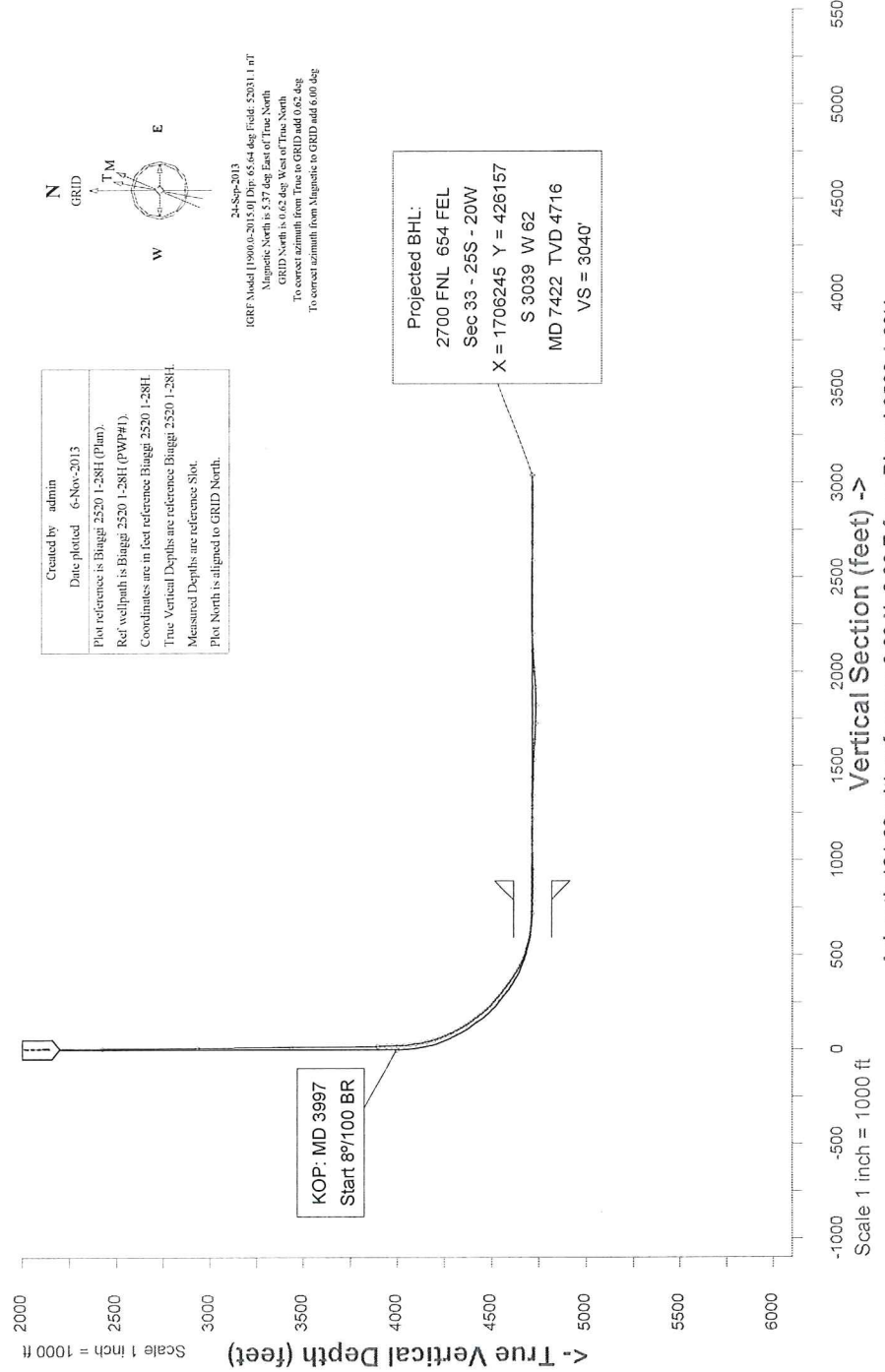
Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
KOP	3996.82	0.00	0.00	3996.82	0.00	0.00	0.00	-0.00
Target Biaggi 2520 1-2	5124.93	90.00	181.28	4715.00	-718.00	-16.04	7.98	718.18
T.D. & Target Biaggi 25	7446.80	90.00	181.27	4715.00	-3039.29	-67.69	0.00	3040.04

TARGET DATA

Name	MD	Inc	Azi	TVD	North	East	Position
Biaggi 2520 1-28H - 88°	4712.58	-691.03	-15.32	4712.58	0.00	0.00	1706292.37 East - 428505.11 North
Biaggi 2520 1-28H - LP	4715.00	-718.00	-16.04	4715.00	0.00	0.00	1706291.65 East - 428478.14 North
Biaggi 2520 1-28H - BHL	4715.00	-3039.29	-67.69	4715.00	-718.00	-16.04	1706240.00 East - 426157.00 North
Biaggi 2520 1-28H - End 88°	4719.56	-890.86	-19.75	4719.56	-3039.29	-67.69	1706297.94 East - 428505.29 North



9630 Pole Rd.
 Oklahoma City, OK 73160
 Tel: (405) 604-2969



Azimuth 181.28 with reference 0.00 N, 0.00 E from Biaggi 2520 1-28H

Standard Wellpath Report
 Sandridge
 Sec 28 - 25S - 20W, Kansas
 Edwards County
 Wellbore: Biaggi 2520 1-28H (Actual)

Wellpath (Grid) Report

MD[m]	Incl[deg]	Azi[deg]	TVD[m]	North[m]	East[m]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00E	0.00	1706307.69	429196.09
1258.00	0.70	110.500	1257.97	2.69S	7.20E	0.06	2.53	1706314.89	429193.40
1416.00	0.50	107.300	1415.96	3.23S	8.76E	0.13	3.04	1706316.45	429192.86
1921.00	0.70	100.000	1920.93	4.43S	13.90E	0.04	4.11	1706321.59	429191.67
2425.00	0.50	180.600	2424.91	7.16S	16.91E	0.16	6.78	1706324.60	429188.93
2930.00	0.50	156.300	2929.89	11.38S	17.77E	0.04	10.98	1706325.46	429184.71
3435.00	0.50	164.800	3434.87	15.52S	19.24E	0.07	15.09	1706326.93	429180.57
3897.00	0.80	167.700	3896.84	20.62S	20.45E	0.07	20.16	1706328.14	429175.47
3941.00	0.50	165.800	3940.84	21.11S	20.56E	0.68	20.64	1706328.25	429174.98
3972.00	1.00	190.700	3971.84	21.50S	20.55E	1.89	21.04	1706328.24	429174.59
4004.00	2.60	198.800	4003.82	22.46S	20.26E	5.05	22.01	1706327.95	429173.63
4036.00	5.30	194.900	4035.74	24.58S	19.65E	8.47	24.14	1706327.34	429171.51
4067.00	7.10	192.900	4066.56	27.83S	18.85E	5.85	27.41	1706326.54	429168.26
4098.00	8.80	198.300	4097.26	31.95S	17.68E	5.98	31.55	1706325.37	429164.14
4129.00	10.90	196.900	4127.80	37.01S	16.08E	6.82	36.64	1706323.77	429159.08
4192.00	16.20	194.600	4189.04	51.24S	12.38E	8.75	50.95	1706320.07	429144.86
4224.00	18.90	193.100	4219.55	60.61S	10.08E	8.55	60.37	1706317.77	429135.49
4254.00	21.20	190.900	4247.73	70.67S	7.96E	8.07	70.47	1706315.65	429125.43
4286.00	23.80	189.100	4277.29	82.73S	5.84E	8.40	82.58	1706313.53	429113.37
4317.00	26.00	188.300	4305.41	95.63S	3.87E	7.18	95.52	1706311.56	429100.47
4349.00	28.80	186.900	4333.81	110.22S	1.93E	8.98	110.15	1706309.62	429085.87
4380.00	31.60	184.400	4360.60	125.74S	0.41E	9.90	125.70	1706308.10	429070.36
4412.00	34.20	183.800	4387.47	143.07S	0.83W	8.19	143.06	1706306.86	429053.03
4444.00	37.20	183.100	4413.45	161.71S	1.95W	9.46	161.71	1706305.74	429034.39
4475.00	39.90	183.300	4437.70	181.00S	3.03W	8.72	181.02	1706304.66	429015.10
4507.00	42.40	183.000	4461.79	202.02S	4.18W	7.84	202.06	1706303.51	428994.08
4539.00	44.70	183.000	4484.98	224.04S	5.34W	7.19	224.10	1706302.35	428972.07
4570.00	46.70	183.500	4506.63	246.19S	6.60W	6.55	246.27	1706301.09	428949.92
4601.00	48.40	183.900	4527.55	269.01S	8.07W	5.57	269.13	1706299.62	428927.10
4633.00	49.50	183.300	4548.57	293.10S	9.59W	3.72	293.24	1706298.10	428903.01
4665.00	51.10	181.500	4569.01	317.69S	10.61W	6.61	317.85	1706297.08	428878.42
4697.00	54.20	180.600	4588.42	343.12S	11.08W	9.94	343.29	1706296.61	428852.99
4729.00	56.40	180.200	4606.64	369.43S	11.26W	6.95	369.59	1706296.43	428826.68
4760.00	59.30	180.700	4623.13	395.77S	11.42W	9.39	395.83	1706296.27	428800.44
4792.00	62.50	180.700	4638.69	423.63S	11.71W	10.01	423.78	1706296.98	428772.42
4823.00	64.60	181.800	4652.50	451.37S	12.32W	7.48	451.54	1706295.37	428744.74
4855.00	67.60	182.500	4665.06	479.69S	13.39W	9.90	479.87	1706294.30	428716.43
4885.00	70.50	183.000	4676.14	508.61S	14.78W	9.48	508.81	1706292.91	428687.52
4917.00	73.40	182.300	4686.05	539.00S	16.18W	9.30	539.22	1706291.51	428657.13
4949.00	75.80	181.600	4694.55	569.83S	17.23W	7.79	570.07	1706290.46	428626.30
4980.00	78.80	180.600	4701.37	600.66S	17.81W	10.18	600.31	1706289.88	428596.07
5010.00	81.20	180.300	4706.58	629.60S	18.04W	8.06	629.85	1706289.65	428566.53
5041.00	84.00	179.800	4710.57	660.34S	18.07W	9.17	660.58	1706289.62	428535.79
5072.00	85.70	180.300	4713.35	691.21S	18.09W	5.71	691.44	1706289.60	428504.92
5104.00	86.40	180.700	4715.55	723.14S	18.37W	2.52	723.36	1706289.76	428473.00
5136.00	87.60	181.300	4717.23	755.09S	18.93W	4.19	755.32	1706288.72	428441.05
5167.00	88.50	181.400	4718.28	786.06S	19.66W	2.92	786.30	1706288.03	428410.08
5198.00	89.80	181.400	4718.85	817.04S	20.42W	2.90	817.30	1706287.27	428379.10
5230.00	89.80	180.900	4719.08	849.04S	21.06W	2.00	849.29	1706286.63	428347.11
5261.00	90.20	181.200	4719.08	880.03S	21.63W	1.61	880.29	1706286.06	428316.12
5292.00	90.50	181.000	4718.89	911.02S	22.22W	1.16	911.29	1706285.47	428285.12
5324.00	91.00	181.000	4718.47	943.02S	22.78W	1.56	943.29	1706284.91	428253.13
5340.00	91.30	180.700	4718.15	959.01S	23.02W	2.65	959.29	1706284.67	428237.14
5392.00	90.90	180.800	4716.84	1026.99S	23.91W	0.61	1027.27	1706283.78	428169.16
5422.00	90.40	180.000	4715.23	1217.98S	24.02W	0.16	1218.22	1706283.67	428105.17
5459.00	90.40	180.100	4715.67	1154.96S	23.96W	0.78	1155.23	1706283.73	428041.18
5492.00	90.40	180.000	4715.68	1281.98S	23.96W	2.50	1282.20	1706283.73	427978.19
5522.00	88.60	181.000	4717.69	1345.95S	23.91W	1.88	1345.15	1706283.78	427850.23
5598.00	85.30	181.700	4732.75	1632.75S	28.09W	0.63	1632.97	1706279.61	427659.36
6014.00	88.00	181.400	4727.20	1632.75S	28.09W	0.63	1632.97	1706279.61	427659.36
6109.00	85.30	181.700	4732.75	1727.55S	30.65W	2.86	1727.80	1706277.04	427468.66
6205.00	91.70	183.500	4735.26	1823.36S	35.00W	6.92	1823.69	1706272.69	427372.85
6301.00	93.10	183.400	4731.24	1919.10S	40.78W	1.46	1919.53	1706266.92	427277.11
6396.00	93.30	181.900	4725.94	2013.85S	45.16W	1.59	2014.35	1706262.53	427182.37
6492.00	92.70	182.600	4716.69	2204.50S	52.07W	0.80	2205.11	1706255.63	426991.74
6584.00	90.60	181.800	4714.15	2301.39S	55.79W	2.03	2302.06	1706251.91	426894.85
6779.00	89.70	181.500	4713.90	2396.35S	58.52W	1.00	2397.05	1706249.17	426799.90
6875.00	88.70	180.600	4715.24	2492.32S	60.28W	1.40	2493.04	1706247.41	426703.93

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD and TVD's are from Slot (Biaggi 2520 1-28H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 181.18 degrees from Wellhead
 Bottom hole distance is 3039.91 Feet on azimuth 181.18 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 6-Nov-2013

Standard Wellpath Report
 Sandridge
 Sec 28 - 25S - 20W, Kansas
 Edwards County
 Wellbore: Biaggi 2520 1-28H (Actual)

Wellpath (Grid) Report

MD[ft]	Incl[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6971.00	89.10	181.100	4717.09	2588.29S	61.71W	0.67	2589.02	1706245.99	426607.97
7066.00	90.10	180.500	4717.75	2683.28S	63.03W	1.23	2684.01	1706244.66	426512.99
7162.00	90.60	179.800	4717.16	2779.27S	63.28W	0.90	2779.99	1706244.41	426417.00
7258.00	89.70	179.700	4716.91	2875.27S	62.86W	0.94	2875.96	1706244.83	426321.01
7353.00	90.40	179.900	4716.83	2970.27S	62.53W	0.77	2970.93	1706245.16	426226.01
7422.00	90.40	179.900	4716.35	3039.27S	62.41W	==>	3039.90	1706245.28	426157.02

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot (Biaggi 2520 1-28H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 181.280 degrees
 Bottom hole distance is 3039.91 Feet on azimuth 181.18 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 6-Nov-2013

SHAMROCK GAS ANALYSIS, INC.

LABORATORY REFERENCE NUMBER : R16033.S02235



SANDRIDGE ENERGY, INC.

ID: **KS03R0271**
 AREA: **NOT/REC**
 METER: **BIAGGI 1-28H**
 LEASE: **BIAGGI 1-28H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0271**
 SAMPLE DATE: **12/30/2013**
 SAMPLE OF: **GAS**

LINE PRESSURE: **56.08 PSI**
 LINE TEMPERATURE: **39.61 F**
 CYLINDER NUMBER: **715**
 EFFECTIVE DATE: **12/1/2013**
 SAMPLED BY: **NOT/REC**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **1/6/2014**
 SAMPLE TYPE: **SPOT**

For: SANDRIDGE ENERGY, INC.
Attn: JULIE COSTELLO
123 ROBERT S. KERR AVENUE

OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

	MOL%	GPM @ 14.696
HYDROGEN	0.428	0.038
HELIUM	1.416	0.143
HYDROGEN SULFIDE	0.030	0.004
NITROGEN	39.380	4.316
CARBON DIOXIDE	32.556	5.535
METHANE	23.594	3.985
ETHANE	1.935	0.516
PROPANE	0.318	0.087
ISOBUTANE	0.061	0.020
N-BUTANE	0.107	0.034
ISOPENTANE	0.029	0.011
N-PENTANE	0.040	0.014
HEXANES PLUS	0.106	0.047
	100.000	14.750

BTU	Vol. IDEAL Gas Fuel	Vol. Real Gas Fuel
BTU @ 14.65 PSIA (DRY)	295.0	295.6
BTU @ 14.65 PSIA (SAT.)	289.9	290.5
Specific Gravity	1.0424	1.0440
Compressibility (Z)	0.9980	

<u>Gasoline Content (Gallons Per Thousand - GPM)</u>	Vol. IDEAL Gas Fuel	Vol. Real Gas Fuel
Ethane & Heavier	0.729	0.729
Propane & Heavier	0.213	0.213
Butane & Heavier	0.126	0.126
Pentane & Heavier	0.072	0.072
Total 26 psi Reid V.P. Gasoline GPM	0.115	0.115

Secondary BTU Psia Base	Vol. IDEAL Gas Fuel	Vol. Real Gas Fuel
BTU @ 14.73 PSIA (DRY)	296.6	297.2
BTU @ 14.73 PSIA (SAT.)	291.5	292.1
Compressibility (Z) at 14.73 =	0.9980	

Remarks: Field H2S ppm = 300 NO PREVIOUS BTU AVAILABLE RUSH SAMPLE
Remarks: 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11

SHAMROCK GAS ANALYSIS, INC.



LABORATORY REFERENCE NUMBER : **R16036.Q05864**

SANDRIDGE ENERGY, INC.

ID: **KS03R0271**
 AREA: **NOT/REC**
 METER: **BIAGGI 1-28H**
 LEASE: **BIAGGI 1-28H**
 OPERATOR: **SANDRIDGE**
 STATION: **KS03R0271**
 SAMPLE DATE: **12/30/2013**
 SAMPLE OF: **GAS**

LINE PRESSURE: **56.08 PSI**
 LINE TEMPERATURE: **39.61 F**
 CYLINDER NUMBER: **4916**
 EFFECTIVE DATE: **12/1/2013**
 SAMPLED BY: **NOT/REC**
 ANALYZED BY: **BRENNAN**
 ANALYZED DATE: **1/6/2014**
 SAMPLE TYPE: **SPOT**

For: SANDRIDGE ENERGY, INC.
Attn: JULIE COSTELLO
123 ROBERT S. KERR AVENUE
OKLAHOMA CITY, OK 73102-6406

Physical Properties per GPA 2145-09

Calculations per GPA 2172-09

Note: Zero = Less than detection limit

	MOL%	GPM @ 14.696
HYDROGEN	0.344	0.031
HELIUM	1.407	0.142
HYDROGEN SULFIDE	0.030	0.004
NITROGEN	39.446	4.324
CARBON DIOXIDE	32.576	5.539
METHANE	23.615	3.989
ETHANE	1.934	0.515
PROPANE	0.316	0.087
ISOBUTANE	0.062	0.020
N-BUTANE	0.104	0.033
ISOPENTANE	0.032	0.012
N-PENTANE	0.028	0.010
HEXANES PLUS	0.106	0.047
	100.000	14.753

		Vol. Ideal	Vol. Real		12/30/2013	Vol. Ideal	Vol. Real
	BTU	Gas Fuel	Gas Fuel			Gas Fuel	Gas Fuel
BTU @ 14.65 PSIA (DRY)		294.5	295.1	PREVIOUS BTU		295.0	295.6
BTU @ 14.65 PSIA (SAT.)		289.3	290.0	BTU @ 14.65 PSIA (DRY)		295.0	295.6
Specific Gravity		1.0431	1.0447	BTU @ 14.65 PSIA (SAT.)		289.9	290.5
Compressibility (Z)		0.9980					

Gasoline Content (Gallons Per Thousand - GPM)

Ethane & Heavier	0.724
Propane & Heavier	0.209
Butane & Heavier	0.122
Pentane & Heavier	0.069
Total 26 psi Reid V.P. Gasoline GPM	0.110

Secondary BTU Psia Base

		Vol. IDEAL	Vol. Real
	BTU	Gas Fuel	Gas Fuel
BTU @ 14.73 PSIA (DRY)		296.1	296.7
BTU @ 14.73 PSIA (SAT.)		290.9	291.6
Compressibility (Z) at 14.73 =		0.9980	

Remarks: Field H2S ppm = 300 RUSH SAMPLE
Remarks: 47-36-17 HEXANES SPLIT AS PER K. HARPER 05/02/11