

1236562

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
--	---

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
----------------	-------	---------	------------	---

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> _____					
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: _____ _____
--	--	---

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)				
									FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	215	5058	4149	1144
BHL	9560	87.60	178.50	4758.54	-4738.95	-1037.42	4851.17	0.00	4942	336	3028	2232
Miss Entry	5216	86.29	214.19	4682.94	-460.62	-806.63	623.32	0.84	666	4611	3334	1956
Top Port	5527	85.89	205.59	4705.10	-729.70	-960.67	919.24	2.00	934	4344	3176	2113
Bottom Port	8179	86.97	179.97	4739.81	-3358.72	-1050.80	3506.12	0.55	3562	1717	3039	2231

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m	
							North Line slope	East Line slope
	2150787	140512					0.0119003	
	2150880	135222					-0.0106302	
	2156081	140575					0.0161689	
	2156137	135307					-0.0175803	

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (deg)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)				
									FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	215	5058	4149	1144
250	1.1	48.5	249.98	1.59	1.80	-1.94	0.44	0.44	214	5060	4151	1143
521	1.1	48.5	520.93	5.04	5.69	-6.14	0.00	0.00	210	5063	4155	1139
796	0.4	48.5	795.91	7.42	8.39	-9.05	0.25	0.25	208	5066	4158	1136
977	0.8	21.8	976.90	9.01	9.33	-10.81	0.26	0.26	207	5067	4159	1135
1433	0.7	6.4	1432.86	14.74	10.82	-16.72	0.05	0.05	201	5073	4160	1133
1620	2.3	356.2	1619.79	19.62	10.70	-21.46	0.86	0.86	196	5078	4160	1134
1714	3.8	332.2	1713.66	24.26	9.13	-25.65	2.06	2.06	191	5082	4159	1135
1903	7.8	312.1	1901.67	38.40	-3.32	-36.79	2.34	2.34	177	5097	4146	1147
1998	9.8	301.2	1995.55	46.91	-15.02	-42.58	2.73	2.73	168	5106	4135	1159
2376	8.2	271.7	2369.08	64.39	-69.51	-47.93	1.28	1.28	150	5124	4081	1213
2849	8.4	278.7	2837.14	70.61	-137.38	-39.41	0.22	0.22	143	5131	4013	1281
3323	7.3	305.1	3306.84	93.17	-196.26	-48.78	0.79	0.79	120	5155	3954	1340
3797	7.9	311.7	3776.69	132.16	-245.22	-76.33	0.22	0.22	80	5194	3906	1388
3892	6.8	309.9	3870.90	140.11	-254.41	-82.11	1.18	1.18	72	5203	3897	1397
3924	6.6	308	3902.69	142.46	-257.32	-83.78	0.93	0.93	70	5205	3894	1400
3955	7.1	299.4	3933.47	144.50	-260.39	-85.11	3.68	3.68	68	5207	3891	1403
3987	7.8	283.9	3965.20	145.99	-264.22	-85.75	6.63	6.63	66	5209	3887	1407
4019	9.2	270.9	3996.85	146.55	-268.89	-85.29	7.40	7.40	66	5209	3883	1412
4050	10.4	263.6	4027.40	146.28	-274.15	-83.89	5.56	5.56	66	5209	3878	1417
4082	11.5	259.2	4058.81	145.36	-280.15	-81.70	4.31	4.31	67	5208	3871	1423
4113	13.1	256.1	4089.10	143.94	-286.60	-78.93	5.58	5.58	68	5207	3865	1430
4145	14.5	253	4120.18	141.89	-293.95	-75.35	4.95	4.95	70	5205	3858	1437
4177	16.1	249.9	4151.04	139.20	-301.95	-71.00	5.61	5.61	73	5202	3850	1445
4209	17.7	246.3	4181.66	135.72	-310.57	-65.74	5.97	5.97	76	5199	3841	1454
4241	19.3	242.9	4212.01	131.35	-319.73	-59.51	6.03	6.03	80	5195	3832	1463
4272	20.7	240.4	4241.14	126.31	-329.06	-52.58	5.29	5.29	85	5190	3822	1472
4305	22.3	238	4271.84	120.11	-339.44	-44.30	5.53	5.53	91	5184	3812	1483
4336	24.9	234.6	4300.25	113.21	-349.75	-35.34	9.46	9.46	98	5177	3801	1493
4368	27.8	230.9	4328.92	104.60	-361.03	-24.50	10.41	10.41	107	5169	3790	1504
4399	31.3	229.3	4355.89	94.79	-372.75	-12.40	11.57	11.57	116	5159	3778	1516
4431	34.5	228.3	4382.75	83.34	-385.82	1.59	10.14	10.14	127	5148	3765	1529
4463	37.8	226.9	4408.59	70.60	-399.75	17.03	10.63	10.63	140	5135	3751	1543
4494	40.8	225.1	4432.57	56.96	-413.87	33.39	10.35	10.35	154	5122	3736	1558
4526	43.5	222.8	4456.30	41.50	-428.76	51.89	9.72	9.72	169	5107	3721	1573
4557	45.3	221.2	4478.45	25.38	-443.27	70.55	6.84	6.84	185	5091	3706	1587
4589	47.8	220.2	4500.45	7.76	-458.41	91.01	8.14	8.14	202	5074	3691	1603
4620	50.6	218.8	4520.71	-10.35	-473.33	111.91	9.66	9.66	220	5056	3676	1618
4651	53.5	217.9	4539.77	-29.52	-488.50	133.89	9.63	9.63	239	5037	3660	1633
4683	56.1	217.9	4558.21	-50.15	-504.56	157.49	8.12	8.12	260	5016	3644	1650
4715	58.7	217.9	4575.45	-71.42	-521.12	181.83	8.12	8.12	281	4995	3627	1666
4746	61.9	217.4	4590.81	-92.74	-537.56	206.18	10.42	10.42	302	4974	3610	1683
4778	64.5	217.8	4605.24	-115.37	-554.99	232.03	8.20	8.20	324	4952	3592	1701
4810	66.3	217.7	4618.56	-138.37	-572.80	258.33	5.63	5.63	347	4929	3574	1719
4841	69.1	217.2	4630.32	-161.14	-590.24	284.31	9.15	9.15	370	4907	3556	1736
4872	73	217.3	4640.38	-184.47	-607.98	310.92	12.58	12.58	393	4884	3538	1754
4904	74.8	217.9	4649.26	-208.83	-626.74	338.74	5.91	5.91	417	4860	3519	1773
4936	77	217.9	4657.05	-233.32	-645.80	366.75	6.88	6.88	441	4835	3499	1793
4967	80.4	217.2	4663.13	-257.42	-664.33	394.27	11.19	11.19	465	4812	3480	1811
4999	83.6	217.1	4667.58	-282.67	-683.46	423.05	10.00	10.00	490	4787	3461	1831
5030	86.2	216.3	4670.33	-307.42	-701.91	451.19	8.77	8.77	514	4762	3442	1850
5075	86.1	214.3	4673.36	-344.07	-727.85	492.56	4.44	4.44	551	4726	3415	1876
5124	86.1	214	4676.69	-384.52	-755.30	537.97	0.61	0.61	591	4686	3387	1904
5169	86	213.9	4679.79	-421.76	-780.37	579.73	0.31	0.31	628	4649	3361	1929
5218	86.3	214.2	4683.08	-462.27	-807.74	625.18	0.86	0.86	668	4609	3333	1957
5265	86.2	214.5	4686.15	-500.99	-834.21	668.68	0.67	0.67	706	4571	3306	1984
5281	86.4	214.2	4687.19	-514.17	-843.21	683.50	2.25	2.25	720	4558	3297	1993
5313	86.2	213	4689.25	-540.77	-860.89	713.27	3.79	3.79	746	4532	3279	2011
5344	85.2	210	4691.58	-567.12	-877.04	742.48	10.17	10.17	772	4505	3262	2027
5376	85.4	207.7	4694.20	-595.06	-892.42	773.07	7.19	7.19	800	4478	3246	2043
5407	85.9	207.7	4696.55	-622.42	-906.79	802.89	1.61	1.61	827	4451	3231	2058
5476	86	207	4701.42	-683.56	-938.41	869.39	1.02	1.02	888	4390	3199	2090
5567	85.8	204.5	4707.93	-765.30	-977.84	957.71	2.75	2.75	969	4309	3158	2130
5658	86.5	200.2	4714.04	-849.26	-1012.36	1047.12	4.78	4.78	1053	4225	3122	2166
5750	88.6	198.3	4717.98	-936.03	-1042.66	1138.37	3.08	3.08	1139	4139	3090	2197

Top of Tangent
@ 5053'

Btm of Tangent
@ 5325'

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (deg)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
5841	87.5	191.5	4721.08	-1023.86	-1066.03	1229.18	7.57	1227	4052	3065	2221
5931	90.6	186.4	4722.57	-1112.72	-1080.02	1318.96	6.63	1315	3963	3049	2236
6022	90.1	180.3	4722.01	-1203.51	-1085.34	1408.78	6.73	1406	3872	3043	2243
6112	90.3	179.2	4721.70	-1293.51	-1084.95	1496.59	1.24	1496	3782	3041	2243
6203	91.3	179.5	4720.43	-1384.50	-1083.91	1585.22	1.15	1587	3691	3041	2243
6293	90.4	179.4	4719.09	-1474.48	-1083.05	1672.91	1.01	1677	3601	3040	2243
6385	90.3	178.7	4718.53	-1566.47	-1081.52	1762.42	0.77	1769	3509	3040	2243
6476	90.8	178.4	4717.66	-1657.43	-1079.22	1850.76	0.64	1860	3418	3041	2241
6567	90.7	178.9	4716.47	-1748.40	-1077.08	1939.14	0.56	1951	3327	3041	2240
6659	89	177.8	4716.71	-1840.36	-1074.43	2028.37	2.20	2043	3235	3042	2238
6753	86.8	178	4720.15	-1934.22	-1070.99	2119.30	2.35	2137	3141	3044	2236
6848	87.5	179	4724.87	-2029.07	-1068.50	2211.40	1.28	2232	3047	3045	2235
6942	87.3	179	4729.14	-2122.96	-1066.87	2302.73	0.21	2326	2953	3045	2234
7036	89.9	178.9	4731.44	-2216.91	-1065.14	2394.11	2.77	2420	2859	3045	2233
7130	91	178.4	4730.70	-2310.88	-1062.93	2485.41	1.29	2514	2765	3046	2232
7225	90.8	179.2	4729.20	-2405.84	-1060.94	2577.72	0.87	2609	2670	3046	2231
7320	91.9	179.7	4726.97	-2500.81	-1060.03	2670.27	1.27	2704	2575	3045	2231
7414	91.4	180.3	4724.26	-2594.77	-1060.03	2762.03	0.83	2798	2481	3043	2232
7509	88.8	176.9	4724.09	-2689.72	-1057.71	2854.26	4.51	2893	2386	3044	2231
7604	90	176.9	4725.09	-2784.58	-1052.57	2945.79	1.26	2987	2291	3048	2227
7699	88.4	178.3	4726.42	-2879.48	-1048.59	3037.62	2.24	3082	2196	3050	2224
7793	88.7	180.9	4728.79	-2973.44	-1047.94	3129.24	2.78	3176	2102	3049	2224
7888	89.7	180.6	4730.12	-3068.42	-1049.18	3222.26	1.10	3271	2007	3046	2226
7983	89.5	180.6	4730.78	-3163.41	-1050.17	3315.25	0.21	3366	1912	3043	2228
8078	86.5	180.1	4734.10	-3258.34	-1050.76	3408.08	3.20	3461	1817	3041	2230
8173	86.9	179.9	4739.57	-3353.18	-1050.76	3500.70	0.47	3556	1722	3039	2231
8267	88.1	181.1	4743.67	-3447.09	-1051.58	3592.58	1.80	3650	1628	3037	2233
8363	89.6	181.3	4745.59	-3543.04	-1053.59	3686.73	1.58	3746	1532	3033	2236
8457	90.3	181.4	4745.68	-3637.02	-1055.80	3778.98	0.75	3840	1438	3029	2239
8552	91.1	181.4	4744.52	-3731.98	-1058.12	3872.22	0.84	3935	1343	3025	2242
8646	91.9	180.5	4742.06	-3825.93	-1059.68	3964.31	1.28	4029	1250	3022	2245
8741	92.5	178.7	4738.41	-3920.86	-1059.02	4056.87	2.00	4124	1155	3021	2245
8836	91.9	178	4734.76	-4015.75	-1056.28	4148.95	0.97	4219	1060	3022	2243
8931	89.5	177.8	4733.60	-4110.67	-1052.80	4240.90	2.54	4314	965	3024	2241
9025	87.6	178.2	4735.98	-4204.58	-1049.52	4331.90	2.07	4407	871	3026	2239
9119	87.6	178.3	4739.92	-4298.45	-1046.65	4422.96	0.11	4501	777	3027	2237
9214	87.6	178.8	4743.89	-4393.34	-1044.25	4515.11	0.53	4596	682	3028	2235
9310	87.8	179.1	4747.75	-4489.24	-1042.49	4608.40	0.38	4692	586	3028	2235
9404	87.3	179.1	4751.76	-4583.14	-1041.02	4699.78	0.53	4786	492	3027	2234
9496	87.6	178.5	4755.86	-4675.03	-1039.09	4789.11	0.73	4878	400	3028	2233
9580	87.6	178.5	4758.54	-4738.95	-1037.42	4851.17	0.00	4942	336	3028	2232



INVOICE

DATE	INVOICE #
9/24/2014	5119

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
HARPER, KS	9/23/2014	3751	LARIAT 40	NICOLE 3406 1-33H	Due on rec...

Description
DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 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 \$21,250.00 AFE Number: <u>DC 14193</u> Well Name: <u>Nicole 3406 1-33H</u> Code: <u>850.010</u> Amount: <u>\$21,525.64</u> Co. Man: <u>John Forlun</u> Co. Man Sig: <u>[Signature]</u> Notes: _____

Sales Tax (6.15%)	\$275.64
--------------------------	----------

TOTAL	\$21,525.64
--------------	-------------



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/6/2014	0000016863

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14193 API 15-077-22090-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4275	Net 30	10/3/2014	11/5/2014	AFE DC14193	NICHOLE 3408 1-33H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	60.00%	-255.60	170.40
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	60.00%	-439.20	292.80
ML003	Bulk Cement Delivery/Return	MILE	895	2.95	2,640.25	60.00%	-1,584.15	1,056.10
MX001	Bulk Material Mixing Service Charge	SCF	411	3.27	1,343.97	60.00%	-806.38	537.59
CC001	Pump Charge 0-1000'	4-HRS	1	2,038.61	2,038.61	60.00%	-1,223.17	815.44
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	JOB	5	1,306.80	6,534.00	90.00%	-5,880.60	653.40
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	60.00%	-862.49	574.99
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	60.00%	-705.67	470.45
AE003	Circulation Equipment(40' of equipment)	JOB	1	1,633.50	1,633.50	60.00%	-980.10	653.40
CL017	9 5/8" Top Rubber Plug	EACH	1	338.80	338.80	35.00%	-118.58	220.22
CSB006	O-Tex Lite Premium Plus	SACK	180	29.81	5,365.80	53.00%	-2,843.87	2,521.93
CP001	C (Premium Plus Cement) (94 lbs/ft3)	94SACK	195	30.80	6,006.01	53.00%	-3,183.19	2,822.82
CP010	Cello Flake	LBS	94	4.20	394.80	53.00%	-209.24	185.56
CP018	Calcium Chloride	LBS	680	1.22	829.60	53.00%	-439.69	389.91
CP009	CF-41 (Foam Preventer)	GAL	4	86.06	344.24	53.00%	-182.45	161.79
CPC43	X-Air P (Antifoam)	LBS	31	8.80	272.80	53.00%	-144.58	128.22
CP031	Sugar	LBS	50	3.39	169.50	0.00%	0.00	169.50

Contact: Sandridge Exploration & Production	Subtotal Amount	*****
	Sales Tax	*****
	Discount Amount	*****
	Payment/Credit Amount	*****
	Total Net Amount	*****



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/13/2014	0000017029

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14193 API 15-077-22090-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Duc Date	AFE No	Lease/Well Name
SOK4310	Net 30	10/10/2014	11/12/2014	AFE DC14193	NICHOLE 3408 1-33H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	60.00%	-255.60	170.40
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	60.00%	-439.20	292.80
ML003	Bulk Cement Delivery/Return	MILE	765	2.95	2,256.75	60.00%	-1,354.05	902.70
MX001	Bulk Material Mixing Service Charge	SCF	365	3.27	1,193.55	60.00%	-716.13	477.42
CC006	Pump Charge 5001-6000'	4-HRS	1	4,671.81	4,671.81	60.00%	-2,803.09	1,868.72
CC015	Pump Charge Additional Hours	UNTHRS	9	588.06	5,292.54	35.00%	-1,852.39	3,440.15
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	JOB	4	1,306.80	5,227.20	90.00%	-4,704.48	522.72
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	60.00%	-862.49	574.99
AE003	Circulation Equipment(40' of equipment)	JOB	1	1,633.50	1,633.50	60.00%	-980.10	653.40
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	60.00%	-705.67	470.45
LT005	Lab Testing - Thickening Time	EACH	2	326.70	653.40	0.00%	0.00	653.40
LT006	Lab Testing - Water Analysis	EACH	1	326.70	326.70	0.00%	0.00	326.70
CL011	7" Top Rubber Plug	EACH	1	203.28	203.28	35.00%	-71.15	132.13
CSB002	50/50 Poz With Premium	SACK	230	22.28	5,124.40	53.00%	-2,715.93	2,408.47
CP002	H (Premium Cement) (94 lbs/ft3)	94SACK	100	30.80	3,080.00	53.00%	-1,632.40	1,447.60
CP005	GEL	LBS	1,287	0.68	875.16	53.00%	-463.83	411.33
CPC29	FL-17 FLA	LBS	57	40.00	2,280.00	53.00%	-1,208.40	1,071.60
CP034	CF - 51 (Anti settling agent)	LBS	29	27.10	785.90	53.00%	-416.53	369.37
CP004	CF-37 (Dispersant)	LBS	19	13.55	257.45	53.00%	-136.45	121.00
CP013	CF - 20 (Lignosulfate Retarder) (below 2	LBS	43	13.55	582.65	53.00%	-308.80	273.85
CPC43	X-Air P (Antifoam)	LBS	57	8.80	501.60	53.00%	-265.85	235.75

Contact: Sandridge Exploration & Production	Subtotal Amount	*****
	Sales Tax	*****
	Discount Amount	*****
	Payment/Credit Amount	*****
	Total Net Amount	*****



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/13/2014	0000017029

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14193 API 15-077-22090-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4310	Net 30	10/10/2014	11/12/2014	AFE DC14193	NICHOLE 3408 1-33H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
CP009	CF-41 (Foam Preventer)	GAL	1	86.06	86.06	53.00%	-45.61	40.45

Contact: Sandridge Exploration & Production	Subtotal Amount	39,685.64
	Sales Tax	400.46
	Discount Amount	-22,820.24
	Payment/Credit Amount	0.00
	Total Net Amount	17,265.86

STAGE 1								
Port @ 8,179'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	25500	607					6.1
Slickwater	100	8400	200	40/70	0.25	Garnet	2100	2.0
Slickwater	100	6300	150					1.5
Slickwater	100	18400	438	40/70	0.50	Genoa	9200	4.4
Slickwater	100	13800	329					3.3
Slickwater	100	17733	422	40/70	0.75	Genoa	13300	4.2
Slickwater	100	13300	317					3.2
Slickwater	100	10200	243	40/70	1.00	Genoa	10200	2.4
Slickwater	100	7650	182					1.8
Slickwater	100	6200	148	40/70	1.00	Garnet	6200	1.5
Slickwater	100	7362	175					1.8
TOTAL		135,346	3,222				41,000	32.7
							8300	

Nicole 3406 1-33H OH Packer Prog (Fish_prep_frac)

Frac the MISSISSIPPI (Stage 2) as follows:

Drop 2.500" ball. Reduce rate to 5-10bpm as +/- 72 bbls (50 bbls before ball seats).

122.3 bbls to sleeve

STAGE 2								
Port @ 7,985 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24100	573					5.7
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17400	414	40/70	0.50	Genoa	8700	4.1
Slickwater	100	13050	311					3.1
Slickwater	100	16667	397	40/70	0.75	Genoa	12500	4.0
Slickwater	100	12500	298					3.0
Slickwater	100	9600	229	40/70	1.00	Genoa	9600	2.3
Slickwater	100	7200	171					1.7
Slickwater	100	5800	138	40/70	1.00	Garnet	5800	1.4
Slickwater	100	7236	172					1.7
TOTAL		128,053	3,048				38,600	31.0
							7800	

Frac the MISSISSIPPI (Stage 3) as follows:

Drop 2.563" ball. Reduce rate to 5-10bpm as +/- 69 bbls (50 bbls before ball seats).

119.3 bbls to seat

STAGE 3								
Port @ 7,793 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	23700	563					5.6
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	17200	410	40/70	0.50	Genoa	8600	4.1
Slickwater	100	12900	307					3.1
Slickwater	100	16533	394	40/70	0.75	Genoa	12400	3.9
Slickwater	100	12400	295					3.0
Slickwater	100	9500	226	40/70	1.00	Genoa	9500	2.3
Slickwater	100	7125	170					1.7
Slickwater	100	5700	136	40/70	1.00	Garnet	5700	1.4
Slickwater	100	7111	169					1.7
TOTAL		125,970	2,998				38,100	30.5
							7600	

Frac the MISSISSIPPI (Stage 4) as follows:

Drop 2.625" ball. Reduce rate to 5-10bpm as +/- 66 bbls (50 bbls before ball seats).

116.4 bbls to seat

STAGE 4								
Port @ 7,607 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	22400	532					5.3
Slickwater	100	7200	171	40/70	0.25	Garnet	1800	1.7
Slickwater	100	5400	129					1.3
Slickwater	100	16200	386	40/70	0.50	Genoa	8100	3.9
Slickwater	100	12150	289					2.9
Slickwater	100	15600	371	40/70	0.75	Genoa	11700	3.7
Slickwater	100	11700	279					2.8
Slickwater	100	9000	214	40/70	1.00	Genoa	9000	2.1
Slickwater	100	6750	161					1.6
Slickwater	100	5400	129	40/70	1.00	Garnet	5400	1.3
Slickwater	100	6991	166					1.7
TOTAL		119,291	2,839				36,000	28.9
							7200	

Frac the MISSISSIPPI (Stage 5) as follows:

Drop 2.688" ball. Reduce rate to 5-10bpm as +/- 63 bbls (50 bbls before ball seats).

113.6 bbls to seat

STAGE 5								
Port @ 7,424 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24400	580					5.8
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17600	419	40/70	0.50	Genoa	8800	4.2
Slickwater	100	13200	314					3.1
Slickwater	100	16933	403	40/70	0.75	Genoa	12700	4.0
Slickwater	100	12700	302					3.0
Slickwater	100	9800	233	40/70	1.00	Genoa	9800	2.3
Slickwater	100	7350	175					1.8
Slickwater	100	5900	140	40/70	1.00	Garnet	5900	1.4
Slickwater	100	6871	164					1.6
TOTAL		129,255	3,077				39,200	31.2
							7900	

Frac the MISSISSIPPI (Stage 6) as follows:

Drop 2.750" ball. Reduce rate to 5-10bpm as +/- 60 bbls (50 bbls before ball seats).

110.6 bbls to seat

STAGE 6								
Port @ 7,230 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24400	580					5.8
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17600	419	40/70	0.50	Genoa	8800	4.2
Slickwater	100	13200	314					3.1
Slickwater	100	16933	403	40/70	0.75	Genoa	12700	4.0
Slickwater	100	12700	302					3.0
Slickwater	100	9800	233	40/70	1.00	Genoa	9800	2.3
Slickwater	100	7350	175					1.8
Slickwater	100	5900	140	40/70	1.00	Garnet	5900	1.4
Slickwater	100	6745	161					1.6
TOTAL		129,128	3,074				39,200	31.2
							7900	

Frac the MISSISSIPPI (Stage 7) as follows:

Drop 2.813" ball. Reduce rate to 5-10bpm as +/- 57 bbls (50 bbls before ball seats).

107.6 bbls to seat

STAGE 7								
Port @ 7,035 '								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24200	575					5.8
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17400	414	40/70	0.50	Genoa	8700	4.1
Slickwater	100	13050	311					3.1
Slickwater	100	16800	400	40/70	0.75	Genoa	12600	4.0
Slickwater	100	12600	300					3.0
Slickwater	100	9700	231	40/70	1.00	Genoa	9700	2.3
Slickwater	100	7275	173					1.7
Slickwater	100	5800	138	40/70	1.00	Garnet	5800	1.4
Slickwater	100	6618	158					1.6
TOTAL		127,943	3,045				38,800	30.9
							7800	

Frac the MISSISSIPPI (Stage 8) as follows:

Drop 2.875" ball. Reduce rate to 5-10bpm as +/- 54 bbls (50 bbls before ball seats).

104.6 bbls to seat

STAGE 8								
Port @ 6,842'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24400	580					5.8
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17600	419	40/70	0.50	Genoa	8800	4.2
Slickwater	100	13200	314					3.1
Slickwater	100	16933	403	40/70	0.75	Genoa	12700	4.0
Slickwater	100	12700	302					3.0
Slickwater	100	9800	233	40/70	1.00	Genoa	9800	2.3
Slickwater	100	7350	175					1.8
Slickwater	100	5900	140	40/70	1.00	Garnet	5900	1.4
Slickwater	100	6493	155					1.5
TOTAL		128,876	3,068				39,200	31.2
							7900	

Frac the MISSISSIPPI (Stage 9) as follows:

Drop 2.938" ball. Reduce rate to 5-10bpm as +/- 51 bbls (50 bbls before ball seats).

101.6 bbls to seat

STAGE 9								
Port @ 6,651'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	22400	532					5.3
Slickwater	100	7200	171	40/70	0.25	Garnet	1800	1.7
Slickwater	100	5400	129					1.3
Slickwater	100	16200	386	40/70	0.50	Genoa	8100	3.9
Slickwater	100	12150	289					2.9
Slickwater	100	15600	371	40/70	0.75	Genoa	11700	3.7
Slickwater	100	11700	279					2.8
Slickwater	100	9000	214	40/70	1.00	Genoa	9000	2.1
Slickwater	100	6750	161					1.6
Slickwater	100	5400	129	40/70	1.00	Garnet	5400	1.3
Slickwater	100	6368	152					1.5
TOTAL		118,668	2,824				36,000	28.7
							7200	

Frac the MISSISSIPPI (Stage 10) as follows:

Drop 3.000" ball. Reduce rate to 5-10bpm as +/- 48 bbls (50 bbls before ball seats).

98.8 bbls to seat

STAGE 10								
Port @ 6,468'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	23300	552					5.5
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	16800	400	40/70	0.50	Genoa	8400	4.0
Slickwater	100	12600	300					3.0
Slickwater	100	16133	384	40/70	0.75	Genoa	12100	3.8
Slickwater	100	12100	288					2.9
Slickwater	100	9300	221	40/70	1.00	Genoa	9300	2.2
Slickwater	100	6975	166					1.7
Slickwater	100	5600	133	40/70	1.00	Garnet	5600	1.3
Slickwater	100	6249	149					1.5
TOTAL		122,857	2,923				37,300	29.7
							7500	

Frac the MISSISSIPPI (Stage 11) as follows:

Drop 3.063" ball. Reduce rate to 5-10bpm as +/- 45 bbls (50 bbls before ball seats).

96.0 bbls to seat

STAGE 11								
Port @ 6,287'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	23300	552					5.5
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	16800	400	40/70	0.50	Genoa	8400	4.0
Slickwater	100	12600	300					3.0
Slickwater	100	16133	384	40/70	0.75	Genoa	12100	3.8
Slickwater	100	12100	288					2.9
Slickwater	100	9300	221	40/70	1.00	Genoa	9300	2.2
Slickwater	100	6975	166					1.7
Slickwater	100	5600	133	40/70	1.00	Garnet	5600	1.3
Slickwater	100	6131	146					1.5
TOTAL		122,739	2,920				37,300	29.7
							7500	

Frac the MISSISSIPPI (Stage 12) as follows:

Drop 3.125" ball. Reduce rate to 5-10bpm as +/- 43 bbls (50 bbls before ball seats).

93.0 bbls to seat

STAGE 12								
Port @ 6,097'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	21100	501					5.0
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	17200	410	40/70	0.50	Genoa	8600	4.1
Slickwater	100	12900	307					3.1
Slickwater	100	16400	390	40/70	0.75	Genoa	12300	3.9
Slickwater	100	2038	49					0.5
Slickwater	100	9500	226	40/70	1.00	Genoa	9500	2.3
Slickwater	100	7125	170					1.7
Slickwater	100	5700	136	40/70	1.00	Garnet	5700	1.4
Slickwater	100	6007	143					1.4
TOTAL		111,770	2,660				38,000	27.1
							7600	

Frac the MISSISSIPPI (Stage 13) as follows:

Drop 3.188" ball. Reduce rate to 5-10bpm as +/- 40 bbls (50 bbls before ball seats).

90.2 bbls to seat

STAGE 13								
Port @ 5,915'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	lime, min
15% HCl acid	20	500	12					0.6
Slickwater	100	23400	555					5.5
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	16800	400	40/70	0.50	Genoa	8400	4.0
Slickwater	100	12600	300					3.0
Slickwater	100	16267	387	40/70	0.75	Genoa	12200	3.9
Slickwater	100	12200	290					2.9
Slickwater	100	9400	224	40/70	1.00	Genoa	9400	2.2
Slickwater	100	7050	168					1.7
Slickwater	100	5600	133	40/70	1.00	Garnet	5600	1.3
Slickwater	100	5889	140					1.4
TOTAL		123,006	2,926				37,500	29.7
							7500	



Frac the MISSISSIPPI (Stage 14) as follows:

Drop 3.250" ball. Reduce rate to 5-10bpm as +/- 37 bbls (50 bbls before ball seats).

87.2 bbls to seat

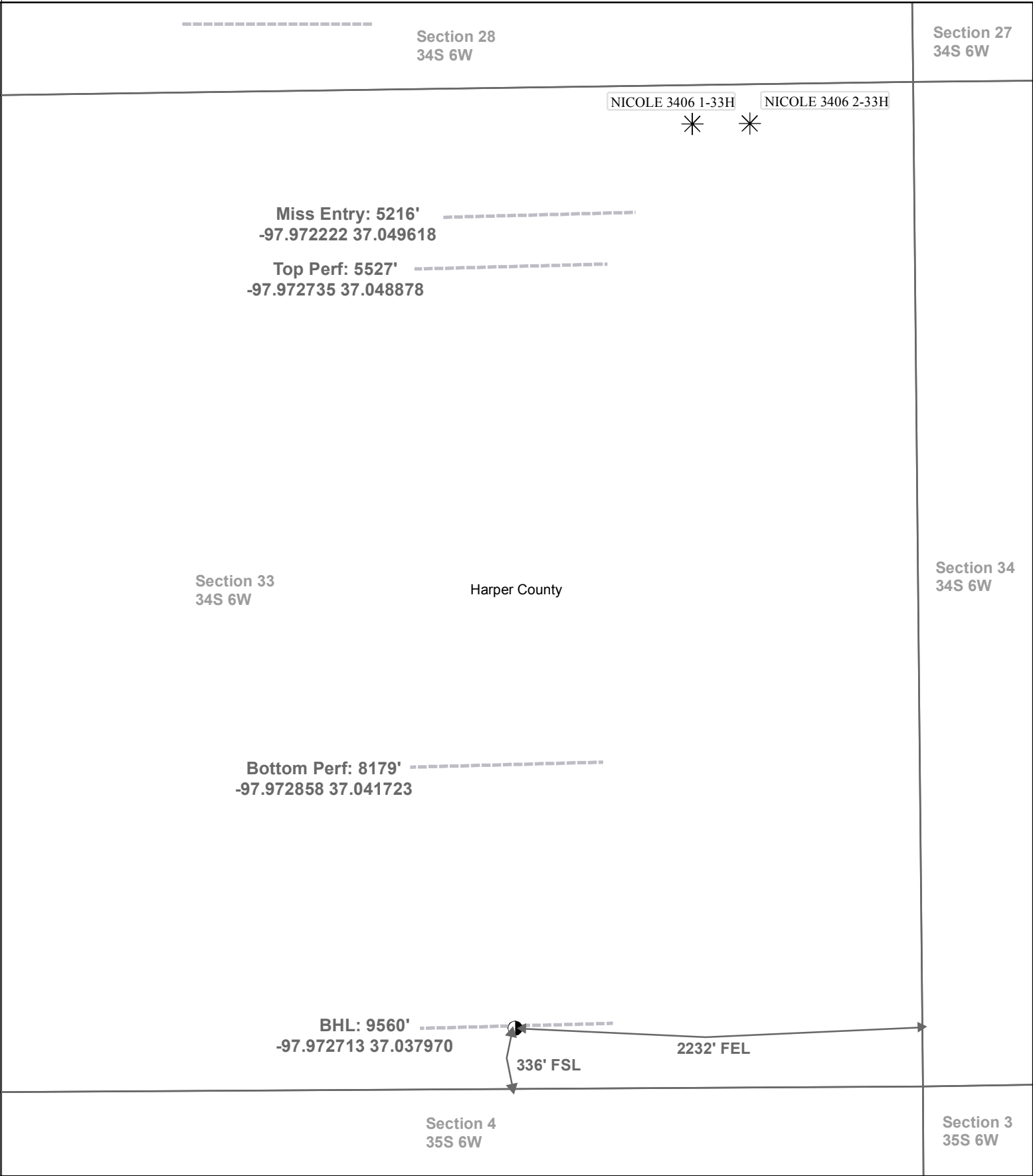
STAGE 14								
Port @ 5,721'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	24400	580					5.8
Slickwater	100	8000	190	40/70	0.25	Garnet	2000	1.9
Slickwater	100	6000	143					1.4
Slickwater	100	17600	419	40/70	0.50	Genoa	8800	4.2
Slickwater	100	13200	314					3.1
Slickwater	100	16933	403	40/70	0.75	Genoa	12700	4.0
Slickwater	100	12700	302					3.0
Slickwater	100	9800	233	40/70	1.00	Genoa	9800	2.3
Slickwater	100	7350	175					1.8
Slickwater	100	5900	140	40/70	1.00	Garnet	5900	1.4
Slickwater	100	5763	137					1.4
TOTAL		128,146	3,050				39,200	31.0
							7900	

Frac the MISSISSIPPI (Stage 15) as follows:

Drop 3.313" ball. Reduce rate to 5-10bpm as +/- 34 bbls (50 bbls before ball seats).

84.2 bbls to seat

STAGE 15								
Port @ 5,527'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop type	Prop, lbs	Time, min
15% HCl acid	20	500	12					0.6
Slickwater	100	23700	563					5.6
Slickwater	100	7600	181	40/70	0.25	Garnet	1900	1.8
Slickwater	100	5700	136					1.4
Slickwater	100	17200	410	40/70	0.50	Genoa	8600	4.1
Slickwater	100	12900	307					3.1
Slickwater	100	16533	394	40/70	0.75	Genoa	12400	3.9
Slickwater	100	12400	295					3.0
Slickwater	100	9500	228	40/70	1.00	Genoa	9500	2.3
Slickwater	100	7125	170					1.7
Slickwater	100	5700	136	40/70	1.00	Garnet	5700	1.4
Slickwater	100	5637	134					1.3
TOTAL		124,495	2,963				38,100	30.1
							7600	



Actual Bottom-Hole Location of Nicole 3406 1-33H
 T&R: 34S 6W
 Section: 33, 2232' FEL & 336' FSL
 -97.972713 37.037970

1 in = 667 ft

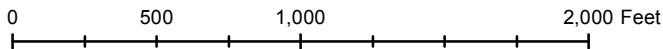


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 12/30/2014

Drawing Name/Number:

Addendum_Nicole 3406 1-33H.mxd

Coordinate System:

NAD 1927 State Plane
 Kansas South FIPS: 1502

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/7/2014
Job End Date:	11/8/2014
State:	Kansas
County:	Harper
API Number:	15-077-22090-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Nicole 3406 1-33H
Longitude:	-97.96910000
Latitude:	37.05080000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,758
Total Base Water Volume (gal):	1,937,796
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	95.78553	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.36741	None
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	0.28615	
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.07055	None
			Methyl Alcohol	67-56-1	80.00000	0.00049	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00009	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00179	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00018	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00111	None
			Citric Acid	77-92-9	30.00000	0.00066	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.

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5			0.04527
			Aliphatic Hydrocarbon	64742-47-8			0.02263
			Anionic Polymer	N/A			0.02263
			Water	7732-18-5			0.00948
			Polyol Ester	N/A			0.00377
			Oxyalkylated Alcohol	68002-97-1			0.00377
			Sodium Salt of Phosphate Ester	68131-72-6			0.00158
			Acrylic Polymer	28205-96-1			0.00158
			Water	7732-18-5			0.00078
			Polyglycol Ester	N/A			0.00075
			Alcohol Ethoxylate Surfactants	N/A			0.00009
			Tetrasodium Ethylenediaminetetraacetate	64-02-8			0.00008
			n-olefins	N/A			0.00005
			Propargyl Alcohol	107-19-7			0.00004
			Surfactant	N/A			
			Water	7732-18-5			
			ISOPROPANOL	67-63-0			
			Acetic Acid	64-19-7			
			METHANOL	67-56-1			
			WATER	7732-18-5			
			Buffer	N/A			
			TRADE SECRET	N/A			
			Cinnamic Aldehyde	104-55-2			

* 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)