



# CONFIDENTIAL WELL COMPLETION FORM

## WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34192  
 Name: SandRidge Exploration and Production LLC  
 Address 1: 123 ROBERT S. KERR AVE  
 Address 2: \_\_\_\_\_  
 City: OKLAHOMA CITY State: OK Zip: 73102 + 6406  
 Contact Person: Tiffany Golay  
 Phone: ( 405 ) 429-6543  
 CONTRACTOR: License # 33596  
 Name: Unit Petroleum Company  
 Wellsite Geologist: Tammy Alcom  
 Purchaser: Atlas (gas) Plains Marketing, LP (oil)

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  

<u>9/21/2012</u>	<u>10/11/2012</u>	<u>10/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21880-01-00  
 Spot Description: \_\_\_\_\_  
NE NE NE NW Sec. 16 Twp. 34 S. R. 6  East  West  
165 Feet from  North /  South Line of Section  
2340 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Harper  
 Lease Name: Garlow Well #: 1-16H  
 Field Name: \_\_\_\_\_  
 Producing Formation: Mississippian  
 Elevation: Ground: 1271 Kelly Bushing: 1291  
 Total Depth: 8987 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at: 612 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: 56000 ppm Fluid volume: 6510 bbls  
 Dewatering method used: Hauled to Disposal  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: BlackRock Services  
 Lease Name: (soil farm company) License #: 99999  
 Quarter SE Sec. 20 Twp. 29 S. R. 6  East  West  
 County: Grant, OK Permit #: 12-21407

**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**

Letter of Confidentiality Received  
 Date: 01/14/2013

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: NAOMI JAMES Date: 01/14/2013

**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
									165	5096	2340	2948
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165	5096	2340	2948
BHL	8987	89.45	174.48	4612.78	-4755.17	-37.05	4755.08	0.00	4920	341	2258	3039
Miss Entry	4738	61.35	188.41	4541.95	-521.95	-102.48	523.89	10.28	685	4576	2232	3057
Top Perf	4885	78.30	182.53	4592.71	-658.69	-115.96	660.65	8.54	822	4439	2218	3072
Bottom Perf	8870	89.12	174.97	4611.40	-4638.68	-47.92	4638.80	0.64	4803	458	2248	3048

**Survey Points**

	X	Y		X	Y	North Line slope	
NW Corner XY Coord	2150617	156268				0.0186446	
SW Corner XY Coord	2150667	151006	Surface XY	2152958	158142	-0.0112231	
NE Corner XY Coord	2155904	158358				0.01756042	
SE Corner XY Coord	2155863	151099				-0.0095021	

	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
									165	5096	2340	2948
	0	0.0	0	0	0	0	0	0	165	5096	2340	2948
	631	1.53	212.22	630.93	-6.98	-4.38	7.03	0.25	172	5088	2335	2953
	723	0.54	144.84	722.91	-8.35	-4.79	8.44	1.54	173	5088	2335	2953
	815	0.19	91.33	814.91	-8.71	-4.39	8.79	0.49	174	5087	2335	2953
	907	0.19	313.66	906.91	-8.61	-4.35	8.88	0.39	174	5087	2335	2953
	999	0.36	195.05	998.91	-8.78	-4.54	8.86	0.52	174	5087	2335	2953
	1091	0.30	167.06	1090.91	-9.29	-4.56	9.37	0.19	174	5087	2335	2953
	1183	0.43	103.78	1182.91	-9.61	-4.17	9.68	0.43	175	5086	2336	2953
	1275	0.39	25.29	1274.91	-9.41	-3.70	9.47	0.56	174	5086	2336	2952
	1367	0.16	186.82	1366.90	-9.25	-3.58	9.32	0.59	174	5087	2336	2952
	1459	0.50	44.51	1458.90	-9.09	-3.32	9.16	0.69	174	5087	2336	2952
	1549	0.10	268.12	1548.90	-8.82	-3.12	8.87	0.64	174	5087	2337	2952
	1640	0.37	222.18	1639.90	-9.04	-3.40	9.10	0.34	174	5087	2336	2952
	1732	0.18	212.43	1731.90	-9.38	-3.67	9.44	0.21	174	5086	2336	2952
	1828	0.88	313.83	1825.90	-9.12	-4.16	9.19	0.70	174	5087	2336	2953
	1921	0.46	228.22	1920.90	-8.99	-4.84	9.08	0.85	174	5087	2335	2953
	2016	0.50	336.73	2015.89	-8.87	-5.28	8.97	0.83	174	5087	2334	2954
	2111	0.21	177.02	2110.89	-8.67	-5.43	8.76	0.74	174	5087	2334	2954
	2206	0.35	171.23	2205.89	-9.13	-5.38	9.22	0.15	174	5087	2334	2954
	2301	0.39	48.43	2300.89	-9.20	-5.09	9.29	0.68	174	5087	2335	2954
	2397	0.13	21.41	2396.89	-8.88	-4.81	8.97	0.29	174	5087	2335	2953
	2492	0.16	171.89	2491.89	-8.93	-4.75	9.01	0.32	174	5087	2335	2953
	2587	0.52	185.95	2586.89	-9.51	-4.77	9.59	0.37	174	5086	2335	2953
	2681	0.31	96.72	2680.89	-9.96	-4.58	10.04	0.64	175	5086	2335	2953
	2778	0.18	100.83	2775.88	-10.02	-4.18	10.09	0.14	175	5086	2336	2953
	2871	0.53	109.74	2870.88	-10.19	-3.60	10.26	0.37	175	5086	2336	2952
	2966	0.37	25.68	2965.88	-10.07	-3.06	10.12	0.65	175	5086	2337	2952
	3061	0.10	344.83	3060.88	-9.71	-2.84	9.76	0.32	175	5086	2337	2951
	3156	0.09	141.21	3155.88	-9.69	-2.82	9.74	0.20	175	5086	2337	2951
	3251	0.03	250.10	3250.88	-9.75	-2.90	9.80	0.11	175	5086	2337	2951
	3345	0.34	144.88	3344.88	-9.99	-2.78	10.04	0.37	175	5086	2337	2951
	3440	0.44	206.59	3439.88	-10.55	-2.76	10.59	0.43	175	5085	2337	2951
	3535	1.86	169.56	3534.88	-12.39	-2.84	12.43	1.61	177	5083	2337	2951
	3630	0.68	142.75	3629.83	-14.35	-2.02	14.39	1.36	179	5081	2338	2951
	3693	1.03	170.16	3692.83	-15.21	-1.70	15.24	0.84	180	5081	2338	2950
	3724	2.26	189.98	3723.81	-16.09	-1.78	16.12	4.31	181	5080	2338	2950
	3756	3.89	202.86	3755.77	-17.71	-2.29	17.75	5.50	183	5078	2337	2951
	3788	5.37	209.73	3787.66	-20.01	-3.45	20.07	4.93	185	5076	2336	2952
	3819	6.20	215.92	3818.50	-22.62	-5.15	22.71	3.35	188	5073	2334	2954
	3851	7.47	217.78	3850.27	-25.67	-7.44	25.80	4.03	191	5070	2332	2956
	3883	9.62	214.01	3881.92	-29.53	-10.21	29.71	8.94	194	5066	2329	2959
	3914	12.65	203.17	3912.33	-34.80	-13.00	35.02	11.84	200	5061	2326	2962
	3946	15.80	198.60	3943.35	-42.15	-16.77	42.42	10.44	207	5054	2324	2965
	3978	17.14	202.03	3974.04	-50.65	-18.93	50.88	5.17	215	5045	2320	2968
	4009	20.25	202.00	4003.40	-59.86	-22.65	60.26	10.03	224	5036	2317	2972
	4041	22.34	198.96	4033.21	-70.75	-26.70	71.21	7.38	235	5025	2312	2976
	4073	23.33	195.05	4062.71	-82.62	-30.32	83.15	5.66	247	5014	2309	2980
	4105	24.80	189.80	4091.93	-95.36	-33.11	95.93	8.11	260	5001	2306	2983
	4136	27.64	186.91	4119.73	-108.90	-35.08	109.51	10.04	273	4987	2304	2985
	4168	29.51	184.94	4147.84	-124.13	-36.65	124.76	6.54	288	4972	2302	2988
	4200	31.66	184.83	4175.38	-140.35	-38.04	141.00	6.72	305	4956	2300	2990
	4231	33.34	185.90	4201.53	-156.93	-39.60	157.61	5.73	321	4940	2299	2990
	4263	33.47	189.10	4228.24	-174.39	-41.90	176.11	5.52	339	4922	2298	2992
	4295	36.21	191.21	4254.51	-192.38	-45.13	193.15	9.36	357	4904	2293	2996
	4326	39.80	191.90	4278.93	-211.08	-48.96	211.92	11.66	375	4886	2289	3000
	4358	43.70	191.54	4302.80	-231.94	-53.29	232.85	12.21	398	4865	2284	3004
	4390	46.41	180.79	4325.40	-254.16	-57.67	255.14	8.63	418	4843	2280	3009
	4422	48.65	189.80	4347.01	-277.38	-61.90	276.43	7.20	441	4819	2275	3013
	4485	49.21	189.58	4388.40	-324.19	-69.94	325.38	0.97	489	4773	2267	3022
	4549	49.49	189.84	4430.09	-372.05	-78.13	373.38	0.54	536	4725	2258	3031
	4680	50.39	190.01	4460.04	-395.42	-82.22	396.82	2.93	609	4702	2254	3035
	4812	50.39	189.86	4470.44	-419.70	-86.47	421.18	0.36	683	4678	2249	3040
	4843	52.20	189.32	4489.83	-443.58	-90.50	445.10	5.99	607	4654	2245	3044
	4875	55.21	188.93	4508.77	-469.02	-94.59	470.63	9.40	632	4628	2241	3048
	4706	58.08	188.31	4525.81	-494.61	-98.47	498.29	9.34	658	4603	2237	3052
	4738	61.35	188.41	4541.95	-521.95	-102.48	523.89	10.28	685	4576	2232	3057
	4770	65.56	187.62	4556.25	-550.29	-106.47	552.09	13.34	713	4547	2228	3061
	4801	68.94	186.40	4568.24	-578.66	-109.95	580.52	11.49	742	4519	2224	3065
	4833	72.13	184.86	4578.90	-608.68	-112.91	610.59	10.95	772	4489	2221	3068

Top of Tangent @ 4420'

Btm of Tangent @ 4610'

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-)		Eastings (+) Westings (-)		Vert Section (ft)	DLS deg/100'	FNL	FSL	FWL	FEL
				(ft)	(ft)	(ft)	(ft)						
4864	74.99	183.31	4587.67	-638.33	-115.03	640.28	10.40	801	4459	2219	3071		
4900	77.24	181.08	4506.31	-673.24	-110.64	675.21	7.21	836	4425	2217	3073		
4931	78.51	181.35	4602.82	-703.53	-117.52	705.51	4.55	867	4394	2216	3074		
4963	79.93	182.34	4608.81	-734.95	-118.53	736.94	5.38	898	4363	2214	3075		
4994	81.88	182.92	4613.71	-765.53	-119.93	767.54	6.56	928	4332	2213	3077		
5026	84.62	182.38	4617.47	-797.27	-121.40	799.30	8.72	960	4301	2211	3079		
5058	86.70	182.18	4619.89	-829.15	-122.67	831.20	6.53	992	4269	2209	3080		
5153	88.55	179.55	4623.83	-924.05	-124.10	926.11	3.38	1087	4174	2207	3083		
5248	89.41	179.60	4625.52	-1019.03	-123.40	1021.08	0.91	1182	4079	2207	3083		
5343	91.11	179.97	4626.09	-1114.02	-123.04	1116.04	1.83	1277	3984	2206	3084		
5438	91.66	180.54	4622.70	-1208.99	-123.46	1211.00	0.83	1372	3889	2205	3085		
5533	92.37	179.09	4619.45	-1303.93	-123.16	1305.92	1.70	1467	3794	2204	3086		
5627	89.41	179.28	4617.99	-1397.90	-121.82	1399.85	3.16	1561	3700	2205	3086		
5722	92.13	180.21	4616.71	-1492.88	-121.40	1494.80	3.03	1656	3605	2204	3087		
5817	91.42	179.88	4613.77	-1587.83	-121.47	1589.74	0.82	1751	3510	2203	3088		
5911	89.32	177.92	4613.17	-1681.80	-119.67	1683.67	3.06	1845	3416	2204	3087		
6006	90.09	177.78	4613.65	-1776.73	-116.10	1778.52	0.82	1940	3321	2207	3084		
6101	90.83	177.51	4612.89	-1871.65	-112.20	1873.35	0.83	2035	3226	2210	3082		
6196	89.63	176.92	4612.51	-1966.54	-107.59	1968.14	1.41	2130	3131	2214	3078		
6291	88.55	177.84	4614.02	-2061.42	-103.24	2062.93	1.49	2225	3036	2217	3075		
6386	88.74	178.10	4616.27	-2156.34	-99.88	2157.77	0.34	2320	2941	2219	3072		
6481	86.95	177.63	4619.84	-2251.20	-96.34	2252.56	1.85	2415	2846	2222	3070		
6576	90.95	178.85	4621.58	-2346.12	-93.43	2347.41	4.40	2510	2751	2224	3068		
6671	90.43	179.42	4620.43	-2441.10	-91.99	2442.35	0.81	2605	2656	2225	3068		
6766	91.45	179.35	4618.88	-2536.08	-90.97	2537.30	1.08	2700	2561	2225	3068		
6861	91.97	178.99	4616.04	-2631.03	-89.60	2632.20	0.67	2794	2466	2225	3068		
6956	89.88	179.27	4614.51	-2726.00	-88.16	2727.13	2.22	2889	2371	2226	3067		
7050	89.60	178.49	4614.93	-2819.98	-86.32	2821.07	0.88	2984	2277	2227	3066		
7145	89.75	178.87	4615.47	-2914.95	-84.13	2915.99	0.43	3079	2182	2228	3065		
7241	89.45	178.46	4616.14	-3010.92	-81.89	3011.90	0.53	3175	2088	2229	3064		
7336	90.09	179.76	4616.52	-3105.91	-80.42	3106.85	1.53	3270	1991	2230	3064		
7431	89.85	179.98	4616.57	-3200.91	-80.19	3201.83	0.33	3365	1896	2229	3065		
7526	89.45	180.40	4617.15	-3295.90	-80.48	3296.81	0.63	3460	1801	2228	3066		
7621	90.59	180.19	4617.12	-3390.90	-80.97	3391.80	1.22	3555	1706	2227	3067		
7715	89.04	178.39	4617.42	-3484.90	-80.83	3485.78	1.88	3649	1612	2226	3068		
7810	88.28	179.77	4619.65	-3579.87	-79.93	3580.72	0.89	3744	1517	2226	3069		
7905	90.65	179.43	4620.53	-3674.85	-79.27	3675.68	2.52	3838	1422	2226	3069		
8000	91.39	179.24	4618.84	-3769.83	-78.17	3770.63	0.80	3933	1327	2226	3069		
8095	93.52	179.16	4614.77	-3864.73	-76.84	3865.48	2.24	4028	1232	2226	3069		
8189	92.62	178.59	4609.74	-3959.57	-75.00	3959.28	1.13	4122	1139	2227	3068		
8285	91.11	179.01	4606.61	-4054.50	-72.99	4056.16	1.63	4218	1043	2228	3067		
8379	90.68	178.94	4605.15	-4148.47	-71.31	4149.09	0.46	4312	949	2229	3068		
8474	90.31	178.87	4604.33	-4243.45	-69.49	4244.02	0.40	4407	854	2230	3066		
8569	88.80	178.32	4605.06	-4338.42	-67.16	4338.93	1.69	4502	759	2231	3064		
8664	88.43	178.91	4607.36	-4433.30	-63.21	4433.73	1.53	4597	664	2234	3061		
8759	88.95	175.85	4609.53	-4528.08	-57.05	4528.38	1.43	4692	569	2240	3056		
8854	89.05	175.08	4611.19	-4622.75	-49.37	4622.90	0.61	4787	474	2247	3050		
8944	89.45	174.48	4612.37	-4712.37	-41.19	4712.36	0.80	4877	384	2254	3042		
TD 8987	89.45	174.48	4612.78	-4765.17	-37.05	4765.08	0.00	4920	341	2258	3039		

Section 17  
34S 6W

Section 16  
34S 6W

GARLOW 1-16H



Miss Entry: 4738'  
-97.976537 37.079379

Top Perf: 4885'  
-97.976588 37.078964

Section 20  
34S 6W

Section 21  
34S 6W

Bottom Perf: 8543'  
-97.976489 37.068897

BHL: 8987'  
-97.976394 37.067753

2159' FWL

674' FSL

BRITT 3406 2-20H

LAKE 3406 2-21H

LAKE 1-21H

MOHR 3406 1-21H

Section 29  
34S 6W

Section 28  
34S 6W

SHRACK 1-28H

SHRACK 3406 2-28H

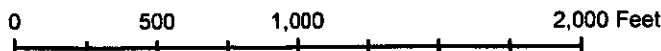
YOUNG 3406 1-28H



Actual Bottom-Hole Location of Garlow 1-16H  
Harper County, Kansas  
T&R: 34S 6W

Section: 21, 2159' FWL & 674' FSL  
Long/Lat: -97.976394 37.067753

1 in = 678 ft



● Actual BH Location

\* SandRidge Wells

▭ Sections  
Perf

Draftsman:

Aaron Birk

Draft Date: 1/10/2013

Drawing Name/Number:

Addendum\_Garlow\_1-16H .mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502