



KANSAS CORPORATION COMMISSION 1099779
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

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 # 34464
Name: Lariat Services, Inc.
Wellsite Geologist: Jarret Borell
Purchaser: _____
Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
 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 #: _____
9/28/2012 11/1/2012 11/4/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-057-20845-01-00
Spot Description: _____
E2 NE NW SW Sec. 36 Twp. 26 S. R. 22 East West
2310 Feet from North / South Line of Section
1160 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Mary Ann 2622 Well #: 1-36H
Field Name: _____
Producing Formation: Mississippian
Elevation: Ground: 2336 Kelly Bushing: 2356
Total Depth: 9999 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1183 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: 30000 ppm Fluid volume: 4680 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: LoJo Disposal
Lease Name: Unnamed License #: 99999
Quarter SW Sec. 10 Twp. 26 S. R. 15 East West
County: Woods, OK Permit #: 563714

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: 01/21/2013
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 01/22/2013

DIRECTIONAL SURVEY CALCULATION
MINIMUM CURVATURE METHOD

Directional Survey Calculation
 Minimum Curvature Method - version 2.0
 For Microsoft Excel Version 3.0 for Macintosh
 and Microsoft Excel Version 3.0 for Windows (64bit)

Well Name	Target Direction	Start Coordinate	N/S	E/W	Min Size	Calculation by	Date		
Job Number	Type of Survey	Tip-Off Point	Directional Co						
Measured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate	Dogleg Severity	Build Up	Wash
0	0	0	0.00	0.00	0.00	N / S	E / W	1000 ft	1000 ft
0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	0	267	293.00	293.00	0.00	0.00	0.00	0.00	109.45
557	1	207	308.00	308.00	0.00	-0.20	-3.02	0.24	0.25
718	1	207	324.00	324.00	0.68	-0.37	-6.51	0.66	-0.01
1229	0	204	426.00	426.00	2.29	-1.79	-10.90	0.17	-13.38
1594	0	220	365.00	365.00	3.94	-3.42	-11.95	0.03	0.03
2042	0	226	448.00	448.00	6.00	-5.40	-13.74	0.02	1.38
2487	1	280	545.00	545.00	6.96	-6.15	-10.39	0.10	0.06
3044	1	201	457.00	457.00	6.10	-5.69	-24.70	0.02	0.15
3430	1	350	365.00	365.00	4.23	-3.04	-26.89	0.23	-0.08
3470	0	25	61.00	61.00	3.77	-2.58	-20.81	0.46	-0.10
3501	0	31	31.00	31.00	3.57	-2.39	-26.71	0.33	0.00
3531	0	44	30.00	30.00	3.40	-2.22	-26.58	0.31	0.05
3582	0	171	31.00	31.00	3.32	-2.14	-26.45	0.04	-0.65
3592	1	171	31.00	31.00	3.49	-2.32	-26.37	2.34	1.67
3623	2	217	31.00	31.00	4.21	-3.03	-26.74	6.40	149.68
3653	4	229	31.00	31.00	4.10	-2.87	-26.81	4.67	37.33
3694	4	231	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3714	4	233	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3715	5	220	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3805	5	214	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3836	5	210	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3866	5	213	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3957	5	214	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
3988	5	213	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4018	5	213	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4049	6	212	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4079	6	213	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4110	6	210	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4140	12	208	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4171	13	204	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4201	14	201	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4232	15	200	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4262	17	169	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4292	19	190	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4323	21	190	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4353	22	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4394	24	197	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4414	26	197	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4445	27	197	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4476	29	198	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4506	31	197	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4535	32	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4567	35	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4597	37	195	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4629	40	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4658	43	194	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4688	46	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4719	48	197	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4749	49	196	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4790	49	199	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4810	49	198	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4841	49	198	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4871	49	193	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4902	50	199	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4932	50	199	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4963	51	198	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
4993	55	190	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5024	56	194	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5054	56	193	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5085	64	191	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5116	66	189	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5146	69	187	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5176	72	185	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5206	76	183	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5236	79	183	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5266	82	182	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5296	86	182	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5326	87	182	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5356	90	181	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5386	91	181	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5416	91	181	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5446	91	181	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5476	92	181	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5506	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5536	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5566	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5596	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5626	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5656	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5686	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5716	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5746	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5776	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5806	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5836	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5866	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5896	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5926	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5956	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
5986	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6016	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6046	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6076	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6106	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6136	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6166	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6196	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6226	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6256	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6286	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6316	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6346	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6376	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6406	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6436	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6466	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6496	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6526	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6556	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6586	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6616	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6646	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6676	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6706	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6736	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6766	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6796	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6826	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6856	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6886	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6916	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6946	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
6976	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
7006	93	180	31.00	31.00	4.05	-2.85	-26.87	4.08	0.93
7036	93	180	3						

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Directional Survey Calculation
 Minimum Curvature Method - version 2.0
 For Microsoft Excel Version 3.0 for Macintosh
 and Microsoft Excel Version 5.0 for Windows (USA)

Well Name	Target Direction	Start Coordinates	N/S	E/W	Mag Size	Calculation by	Date			
Mary Ann 2022	162.35						1/17/13			
Job Number	Type of Survey	True Vertical	Vertical	Total Coordinates		Dogleg	Build Up	Walk		
0		Depth	Section	N/S	E/W	Beverly	1000 R	100 A		
Measured	True	Vertical	Vertical	Total Coordinates		Dogleg	Build Up	Walk		
Depth	Direction	Depth	Section	N/S	E/W	Beverly	1000 R	100 A		
0	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
8929	90	102	31	4.905 31	2.412 28	-2.402 50	-262.97	3.32	1.61	2.30
8931	90	102	32	4.895 19	2.444 20	-2.430 97	-263.97	0.00	0.00	0.00
8932	90	100	31	4.905 57	2.475 27	-2.465 95	-264.57	7.36	-5.81	-4.52
7024	68	100	32	4.906 41	2.507 24	-2.487 94	-264.78	0.62	0.62	0.60
7055	60	100	31	4.907 11	2.538 21	-2.528 93	-265.01	0.65	0.65	0.60
7387	59	101	32	4.907 67	2.570 18	-2.560 92	-265.25	1.02	1.25	0.31
7119	90	160	31	4.908 07	2.601 19	-2.591 92	-265.50	1.67	0.00	1.97
7130	90	161	32	4.909 30	2.633 14	-2.623 92	-265.76	1.02	0.00	1.94
7181	90	160	31	4.909 57	2.665 10	-2.655 91	-266.03	1.50	0.94	1.75
7213	90	160	32	4.909 77	2.697 07	-2.687 91	-266.30	1.88	1.61	1.97
7244	90	160	31	4.909 01	2.729 07	-2.719 91	-266.56	3.76	-3.75	-0.31
7218	60	160	32	4.909 74	2.761 04	-2.749 90	-266.80	0.70	0.00	0.00
1297	60	160	31	4.910 77	2.788 99	-2.780 98	-267.01	0.00	0.00	0.00
7330	60	160	32	4.911 00	2.821 94	-2.812 97	-267.17	1.28	0.21	1.25
7370	67	179	31	4.913 10	2.854 87	-2.843 84	-268.43	4.33	-3.87	-1.94
7370	67	179	32	4.913 10	2.854 87	-2.843 84	-268.44	NDIVG1	NDIVG1	NDIVG1
7402	66	170	32	4.914 94	2.884 78	-2.875 78	-268.97	1.90	1.87	0.31
7433	60	100	31	4.916 58	2.915 67	-2.906 74	-269.64	4.33	3.87	1.94
7434	59	100	31	4.917 02	2.948 62	-2.937 72	-269.89	3.78	3.78	1.29
7498	90	101	32	4.918 01	2.978 60	-2.969 71	-269.84	4.00	5.00	2.10
7527	89	160	31	4.918 01	2.978 60	-2.969 71	-269.84	3.43	2.58	2.25
7559	89	160	32	4.918 37	2.999 59	-2.990 71	-269.89	1.87	1.87	0.00
7590	89	160	31	4.919 30	3.072 50	-3.063 70	-269.14	0.91	0.65	-0.65
7522	90	160	32	4.919 74	3.103 47	-3.095 70	-269.20	0.00	2.81	1.25
7654	91	160	32	4.918 68	3.133 45	-3.127 70	-269.39	2.81	2.81	0.31
7685	91	161	31	4.919 99	3.167 42	-3.158 69	-269.69	1.88	1.81	0.67
7717	92	160	32	4.919 20	3.199 39	-3.190 68	-269.87	2.00	1.60	-1.25
7740	92	160	31	4.917 22	3.233 35	-3.221 66	-267.65	1.88	1.61	0.67
7760	95	160	32	4.915 86	3.262 29	-3.253 63	-265.99	1.69	1.66	-0.62
7011	92	160	31	4.914 59	3.293 23	-3.284 60	-268.02	2.35	1.84	1.29
7043	92	161	32	4.913 47	3.325 19	-3.316 58	-267.28	2.20	0.94	3.13
7014	91	162	31	4.912 66	3.356 18	-3.347 56	-268.17	3.77	-2.28	1.61
7905	92	162	31	4.911 45	3.387 17	-3.378 54	-269.30	2.07	1.61	1.29
7908	90	163	32	4.910 85	3.420 15	-3.411 52	-269.30	2.07	1.61	1.29
8009	91	162	31	4.910 06	3.451 14	-3.442 51	-269.30	2.07	1.61	1.29
8003	91	162	32	4.909 47	3.484 12	-3.475 49	-269.70	3.01	0.62	30.00
8034	90	162	31	4.909 28	3.517 10	-3.508 48	-269.61	3.23	2.25	-32.78
8126	90	162	32	4.908 70	3.550 08	-3.541 46	-269.62	0.98	0.63	0.63
8157	91	162	31	4.908 56	3.583 06	-3.574 44	-269.64	1.64	1.61	-0.32
8189	91	161	32	4.908 40	3.616 04	-3.607 42	-269.64	2.25	1.87	-1.25
8220	92	161	31	4.907 84	3.649 02	-3.640 40	-269.64	0.72	0.65	0.32
8252	91	161	32	4.908 06	3.733 79	-3.724 78	-285.40	1.13	-0.63	0.64
8315	89	162	31	4.906 29	3.763 78	-3.755 77	-286.16	1.74	1.61	0.65
8346	89	162	32	4.906 24	3.796 76	-3.788 76	-287.13	4.65	-4.37	0.65
8378	90	162	31	4.906 66	3.827 77	-3.818 73	-288.24	2.32	0.00	0.32
8409	90	162	32	4.906 70	3.859 77	-3.851 74	-289.50	2.38	1.19	0.94
8441	90	161	31	4.906 80	3.891 77	-3.883 74	-290.71	1.02	0.32	0.97
8472	89	162	32	4.907 47	3.923 76	-3.915 73	-291.83	4.42	-4.35	-0.62
8504	90	161	31	4.907 47	3.955 76	-3.947 73	-292.75	1.01	0.97	-1.29
8535	90	161	32	4.907 83	3.987 75	-3.979 73	-293.59	1.56	1.56	0.00
8604	90	161	31	4.907 94	4.019 75	-4.011 72	-294.35	1.44	1.29	-0.65
8656	91	161	32	4.907 80	4.051 74	-4.043 71	-295.02	1.64	1.61	-0.32
8690	90	161	31	4.907 63	4.083 73	-4.075 71	-295.75	1.40	-1.25	0.62
8620	90	162	32	4.907 55	4.115 72	-4.107 70	-296.56	1.02	0.32	0.97
8661	90	161	31	4.907 60	4.147 72	-4.139 70	-297.34	3.58	-2.81	-2.19
8692	89	161	32	4.908 31	4.179 70	-4.171 69	-297.81	2.92	-2.86	0.32
8724	88	160	31	4.909 10	4.209 67	-4.199 66	-298.33	2.52	2.25	-2.19
8756	89	160	32	4.909 76	4.239 64	-4.227 65	-298.64	0.99	0.00	0.60
8787	89	160	31	4.910 53	4.269 61	-4.259 64	-299.71	1.28	1.28	0.00
8818	88	160	32	4.910 90	4.299 58	-4.289 60	-299.60	0.00	0.00	0.00
8850	88	161	31	4.912 20	4.331 55	-4.322 55	-298.26	0.70	0.31	0.62
8881	88	160	32	4.913 10	4.362 51	-4.353 50	-299.51	1.02	-0.32	0.97
8913	89	160	31	4.913 01	4.394 48	-4.385 48	-299.62	1.13	0.94	-0.63
8944	89	160	32	4.914 53	4.426 44	-4.416 49	-299.70	1.02	0.67	0.32
8976	88	160	31	4.915 42	4.457 40	-4.447 47	-299.78	3.60	-3.75	-0.62
9007	87	160	32	4.916 72	4.489 34	-4.479 45	-298.75	1.29	1.20	0.00
9038	86	160	31	4.916 09	4.520 28	-4.511 42	-298.78	0.99	0.94	0.31
9070	86	160	32	4.916 26	4.551 23	-4.542 39	-299.66	0.73	0.65	0.32
9102	86	160	31	4.920 34	4.583 19	-4.574 38	-299.97	1.25	1.25	0.00
9133	89	160	32	4.921 15	4.614 15	-4.605 38	-300.06	1.29	1.29	0.00
9165	89	160	31	4.921 77	4.646 12	-4.637 35	-300.25	1.40	1.25	0.63
9196	89	160	32	4.922 29	4.677 10	-4.668 35	-300.47	0.65	0.65	0.00
9228	88	160	31	4.922 87	4.709 07	-4.700 35	-300.33	3.19	-3.19	0.63
9259	89	160	32	4.923 76	4.740 99	-4.731 32	-300.51	1.84	1.84	1.81
9291	89	160	31	4.924 65	4.772 97	-4.763 31	-300.47	0.99	0.99	0.31
9322	89	160	32	4.925 25	4.804 92	-4.794 32	-300.25	1.33	0.32	1.29
9354	89	160	31	4.925 83	4.836 88	-4.826 31	-300.93	1.69	1.25	0.00
9385	89	160	32	4.926 37	4.868 84	-4.859 30	-300.92	0.85	0.65	0.00
9417	89	160	31	4.926 99	4.899 79	-4.889 30	-299.84	0.31	0.00	0.31
9448	89	160	32	4.927 58	4.929 75	-4.920 29	-299.67	1.29	0.00	1.29
9480	90	170	31	4.928 00	4.960 70	-4.952 29	-299.37	2.21	2.19	-0.31
9511	90	170	32	4.928 11	4.991 65	-4.983 28	-298.93	1.82	1.20	1.29
9543	90	170	31	4.928 00	5.023 59	-5.015 28	-298.20	1.98	1.25	0.64
9574	91	170	32	4.927 70	5.054 51	-5.046 27	-297.59	0.97	0.97	0.00
9605	91	170	31	4.927 34	5.086 42	-5.078 25	-297.72	1.59	-0.31	1.59
9637	91	170	32	4.926 99	5.117 33	-5.109 24	-297.77	0.46	0.32	-0.32
9669	91	170	31	4.926 45	5.149 23	-5.141 21	-298.81	1.40	1.25	0.62
9700	91	170	32	4.926 84	5.181 15	-5.172 18	-299.10	1.44	0.65	-1.29
9731	92	170	31	4.926 65	5.213 09	-5.204 14	-299.04	1.62	0.97	0.32
9763	92	170	32	4.926 65	5.244 84	-5.235 09	-299.61	1.66	1.25	-0.94
9794	92	170	31	4.926 02	5.276 71	-5.266 05	-299.40	2.97	2.65	2.69
9826	92	170	32	4.925 93	5.308 61	-5.298 02	-298.42	0.70	0.00	0.31
9857	92	170	31	4.925 01	5.339 50	-5.328 99	-297.39	2.07	-1.61	-1.29
9888	91	170	32	4.924 34	5.369 41	-5.359 97	-296.50	3.84	1.87	3.13
9920	91	170	31	4.923 89	5.399 34	-5.391 90	-295.01	1.44	0.65	1.29
9952	91	180	32	4.923 24	5.431 31	-5.423 95	-293.98	3.00	-0.62	3.75
9983	91	180	31	4.923 08	5.462 29	-5.454 95	-293.50	3.24	0.34	3.28
10015	91	180	32	4.923 47	5.494 28	-5.486 93	-292.31	0.92	-0.92	-0.31
10046	89	162	31	4.923 60	5.525 24	-5.517 92	-292.12	4.24	-4.19	0.63
10078	87	161	32	4.923 45	5.556 25	-5.549 90	-290.85	2.53	-2.62	-1.87
10109	87	161	31	4.923 91	5.587 20	-5.580 88	-289.20	1.16	-0.63	0.87
10142	88	161	32	4.923 65	5.618 21	-5.610 86	-287.20	1.16	0.63	-0.32
10173	88	161	31	4.923 65	5.649 22	-5.641 85	-285.20	1.		

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

Well Name	Target Direction	Start Coordinate	N/S	E/W	Well Size	Calculation by	Date			
Mary Ann 2022 1	102.55						11/7/13			
Job Number	Type of Survey	Tie-In Point	Directional Co							
0										
Measured Depth	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate N + / S - E + / W -	Dogleg Severity °/100 R	Bend Up °/100 R	Walk °/100 R	
0	0	0	0.00	0.00			<< TIE-IN POINT >>			
10707	91	102	31	4,932.02	6,185.85	-6,178.32	-300.80	2.28	0.00	2.20
10730	91	102	31	4,932.59	6,210.05	-6,209.31	-307.72	0.91	0.63	0.65
10770	91	102	32	4,931.58	6,248.64	-6,241.29	-395.61	1.55	1.58	0.00
10801	91	102	31	4,930.89	6,279.83	-6,272.27	-399.53	0.71	0.22	0.65
10833	91	101	32	4,930.27	6,311.82	-6,304.25	-310.31	2.79	-1.25	-2.50
10864	91	101	31	4,928.89	6,342.80	-6,335.24	-310.74	1.82	1.29	-1.29
10895	92	101	32	4,928.07	6,374.77	-6,367.23	-311.19	1.56	0.94	-1.25
10927	91	101	31	4,928.10	6,405.75	-6,398.22	-311.70	1.56	-1.64	0.92
10959	91	101	32	4,927.49	6,437.73	-6,430.21	-312.23	1.28	1.58	0.31
10990	90	101	31	4,927.08	6,468.72	-6,461.20	-312.83	3.92	-3.87	0.65
11022	90	101	32	4,926.95	6,500.71	-6,493.18	-313.44	0.62	0.60	-0.02
11053	90	101	31	4,926.97	6,531.70	-6,524.19	-314.01	1.84	-1.81	0.32
11065	90	101	32	4,927.09	6,563.69	-6,556.16	-314.65	0.70	0.63	0.31
11146	90	101	83	4,927.09	6,628.68	-6,619.17	-315.70	0.05	0.32	-0.79
11179	90	100	31	4,927.08	6,657.64	-6,650.17	-315.94	1.74	-0.65	-1.61
11211	90	170	32	4,927.14	6,689.69	-6,682.17	-315.89	2.81	0.00	-2.81
11242	90	170	31	4,927.11	6,720.68	-6,713.17	-316.45	1.02	0.92	0.32
11273	90	100	31	4,927.01	6,751.67	-6,744.17	-316.15	0.32	0.96	0.32
11305	91	170	32	4,926.70	6,782.66	-6,774.17	-316.02	2.28	2.15	-0.62
11337	92	170	31	4,926.03	6,813.65	-6,806.15	-314.29	2.44	1.87	-1.56
11368	92	170	31	4,925.06	6,846.31	-6,839.13	-313.56	2.04	1.94	-0.63
11399	93	170	31	4,923.70	6,877.21	-6,870.09	-312.05	1.64	1.61	0.31
11431	92	170	32	4,922.47	6,909.11	-6,902.06	-312.21	1.82	-1.56	0.94
11462	92	170	31	4,921.47	6,940.05	-6,933.04	-311.78	2.07	-1.61	1.29
11494	92	170	32	4,920.44	6,971.99	-6,965.02	-311.45	1.96	1.66	0.60
11525	92	170	31	4,919.22	7,002.91	-6,996.00	-311.12	0.97	0.97	0.00
11537	83	170	32	4,917.77	7,034.82	-7,027.06	-310.87	1.77	1.25	-1.29
11595	04	170	31	4,916.07	7,066.71	-7,059.01	-310.11	2.75	2.26	0.32
11620	94	170	32	4,914.06	7,097.58	-7,090.64	-309.44	0.69	0.63	-0.63
11649	94	170	20	4,912.11	7,128.46	-7,110.77	-308.66	1.46	1.03	1.03
11683	95	170	34	4,909.56	7,159.29	-7,153.00	-308.24	1.78	1.78	-0.29
11700	95	170	17	4,903.15	7,177.21	-7,170.60	-307.59	3.42	1.76	2.64
11746	95	170	43	4,904.22	7,222.07	-7,216.43	-307.51	6.00	6.00	0.00
11770	95	170	14	4,902.17	7,246.64	-7,240.34	-307.25	6.00	6.00	0.00

Directional Survey Calculation
 Minimum Curvature Method - version 2.0
 For Microsoft Excel Version 3.0 for Macintosh
 and Microsoft Excel Version 3.0 for Windows (IBM)

4 00	Direction	Interval	Rebo	D	D	E	Closure	Closure
2 00	Azimuth	Dog Leg	Factor	N/S	E/S	TVD	Distance	Direction
3 00	0 00					0 00	0 00	#DIV/0!
181.60	0.70	1.00	30.60	-1.10	-0.27	6,165.94	-177.15	
181.60	0.28	1.00	-30.90	-0.92	-0.32	6,216.93	-177.15	
181.60	0.50	1.00	-31.00	-0.80	-0.63	6,248.02	-177.17	
181.00	0.22	1.00	-30.60	-0.92	-0.66	6,279.00	-177.17	
181.00	0.89	1.00	-31.00	-0.78	-0.61	6,311.09	-177.18	
180.60	0.67	1.00	-30.60	-0.43	-0.60	6,342.06	-177.10	
181.00	0.50	1.00	-31.99	-0.45	-0.81	6,374.83	-177.20	
180.60	0.61	1.00	-30.99	-0.61	-0.70	6,405.81	-177.21	
181.00	0.41	1.00	-31.99	0.63	-0.67	6,437.78	-177.22	
181.20	1.22	1.00	-30.99	-0.60	-0.43	6,468.77	-177.23	
181.00	0.20	1.00	-31.99	-0.61	-0.11	6,500.75	-177.24	
181.10	0.51	1.00	-30.99	-0.67	0.03	6,531.74	-177.24	
181.20	0.72	1.00	-31.00	-0.64	0.11	6,563.73	-177.25	
180.70	0.64	1.00	-32.99	-1.04	0.00	6,626.70	-177.27	
180.70	0.54	1.00	-31.00	-0.24	0.00	6,657.67	-177.23	
178.20	0.90	1.00	-32.00	0.14	0.05	6,689.63	-177.20	
179.40	0.32	1.00	-31.00	0.35	-0.03	6,720.57	-177.31	
179.50	0.13	1.00	-31.00	0.30	-0.11	6,751.53	-177.32	
179.30	0.73	1.00	-32.00	0.34	-0.31	6,782.47	-177.34	
178.80	0.78	1.00	-31.99	0.53	-0.67	6,815.40	-177.50	
178.80	0.63	1.00	-30.99	0.70	-0.97	6,846.31	-177.37	
178.70	0.61	1.00	-30.97	0.73	-1.27	6,877.21	-177.30	
179.00	0.68	1.00	-31.97	0.64	-1.31	6,909.12	-177.41	
179.40	0.64	1.00	-30.98	0.43	-1.00	6,940.05	-177.43	
179.40	0.50	1.00	-31.98	0.73	-1.03	6,971.99	-177.44	
179.40	0.30	1.00	-30.07	0.32	-1.22	7,002.91	-177.46	
179.30	0.57	1.00	-31.98	0.45	-1.45	7,034.82	-177.47	
178.70	0.71	1.00	-30.65	0.67	-1.70	7,065.72	-177.46	
178.70	0.26	1.00	-31.03	0.67	-2.01	7,097.58	-177.50	
179.00	0.42	1.00	-28.63	0.60	-1.95	7,128.46	-177.52	
178.90	0.61	1.00	-33.60	0.62	-2.05	7,159.29	-177.53	
178.46	0.56	1.00	-16.94	0.25	-1.41	7,177.21	-177.54	
179.46	0.60	1.00	-45.03	0.48	-3.93	7,222.08	-177.56	
179.46	0.00	1.00	-23.91	0.25	-2.05	7,246.06	-177.57	

MARY ANN 2622 1-36H

Section 35
26S 22W

Section 36
26S 22W

Miss Entry: 5110'
-99.683965 37.73901

POWERS I-2H

Top Perf: 7360'
-99.684015 37.732839

Section 2
27S 22W

Section 1
27S 22W

Bottom Perf: 10880'
-99.684015 37.723162

BHL: 11746'
-99.683965 37.72083

938' FWL 365' FSL

Section 11
27S 22W

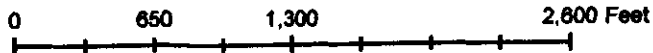
Section 12
27S 22W



Actual Bottom-Hole Location of Mary Ann 2622 1-36H
Ford County, Kansas

T&R: 37S 22W
Section: 1, 938' FWL & 365' FSL
Long/Lat: -99.683965 37.72083

1 in = 897 ft



● Actual BH Location

* SandRidge Wells

▭ Sections

--- Perf

Draftsman:

Aaron Birk

Draft Date: 1/11/2013

Drawing Name/Number:

Addendum_MaryAnn_1-36H .mx

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502