



Confidentiality Requested:  
 Yes  No

**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: \_\_\_\_\_

1208469

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Raymond 3505 1-7H 1L
Doc ID	1208469

All Electric Logs Run

Prizm
Boresight
Resistivity
Porosity
Mud

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Raymond 3505 1-7H 1L
Doc ID	1208469

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8664-8910	1500 gals 15% HCl, 5679 bbls of sw, TLTR 6027 bbls	
5	8304-8599	1500 gals 15% HCl, 5535 bbls of sw, TLTR 11768 bbls	
5	7930-8248	1500 gals 15% HCl, 5419 bbls of sw, TLTR 17350 bbls	
5	7538-7836	1500 gals 15% HCl, 5469 bbls of sw, TLTR 22925 bbls	
5	7183-7455	1500 gals 15% HCl, 5451 bbls of sw, TLTR 28470 bbls	
5	6810-7080	1500 gals 15% HCl, 5416 bbls of sw, TLTR 33574 bbls	
5	6453-6721	1500 gals 15% HCl, 5305 bbls of sw, TLTR 38509 bbls	
5	6071-6363	1500 gals 15% HCl, 5447 bbls of sw, TLTR 43956 bbls	
5	5700-5981	1500 gals 15% HCl, 5234 bbls of sw, TLTR 49230 bbls	
5	5334-5606	1500 gals 15% HCl, 5366 bbls of sw, TLTR 54634 bbls	



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/27/2014
Job End Date:	3/1/2014
State:	Kansas
County:	Harper
API Number:	15-077-21987-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Raymond 3505 1-7H 1L
Longitude:	-97.90851000
Latitude:	37.02325000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,848
Total Base Water Volume (gal):	2,294,670
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	Operator	Carrier					
			Water	7732-18-5	100.00000	94.54232	
Sand, White, 40/70	Baker Hughes	Proppant					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	3.94743	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			Water	7732-18-5	85.00000	0.60908	SmartCare Product
			Hydrochloric Acid	7647-01-0	15.00000	0.10749	SmartCare Product
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	0.29121	
FRW-15A, tote	Baker Hughes	Friction Reducer					
			Contains non-hazardous ingredients that are shown in the non-MSDS section of this report.	NA	100.00000	0.07043	SmartCare Product
NE-900, tote	Baker Hughes	Non-emulsifier					
			Methanol	67-56-1	30.00000	0.01326	SmartCare Product
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10.00000	0.00442	SmartCare Product
Scaletrol 7208, 330 gal tote	Baker Hughes	Scale Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00734	
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control					

			Citric Acid	77-92-9	60.00000	0.00234	SmartCare Product
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00033	
			Thiourea Polymer	68527-49-1	30.00000	0.00017	
			Polyoxyalkylenes	Trade Secret	30.00000	0.00017	
			Fatty Acids	Trade Secret	30.00000	0.00017	
			Propargyl Alcohol	107-19-7	10.00000	0.00005	
			Olefin	Trade Secret	5.00000	0.00003	
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		0.03732	
			Copolymer of Acrylamide and Sodium Acrylate	25987-30-8		0.02817	
			Hydrotreated Light Distillate	64742-47-8		0.02113	
			Copolymer	Trade Secret		0.01768	
			Nonyl Phenol Ethoxylate	127087-87-0		0.00352	
			Sorbitan Monooleate	1338-43-8		0.00352	
			Diethylene Glycol	111-46-6		0.00122	
			Sodium Chloride	7647-14-5		0.00000	
			Formaldehyde	50-00-0		0.00000	
			Calcium Chloride	10043-52-4			
			Polyacrylate	Trade Secret			
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9			
			Potassium Chloride	7447-40-7			

\* 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)







<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3319</b>	TICKET DATE <b>01/12/14</b>
COUNTY <b>Harper</b>	STATE <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Dwayne Burt</b>	
LEASE NAME <b>Raymond 3505</b>	Well No. <b>1-7H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>NATHAN COTTA</b>	

EMP NAME					
John Hall		0			
Joseph Klemm					
Roy Morris					
David Thomas					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_ 0  
 Bottom Hole Temp. 130 Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 6,264'

Date	Called Out 1.12.14	On Location 1.12.14	Job Started 1.12.14	Job Completed 1.12.14
Time	500	900	1437	1630

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	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		26#	7"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 7/8"		Surface	0
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	Gel-Bent BBL	30	10.00
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	
1.12.14	7.5	1.12.14	2.0	Intermediate
Total	7.5	Total	2.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Pressures	
MAX 3500 PSI	AVG. 400
Average Rates in BPM	
MAX 6.5 BPM	AVG 5
Cement Left in Pipe	
Feet 89	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	280	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.1% C-37 - 0.2% C-20 - 0.4% C-41P	6.93	1.43	13.60
2	200	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 3500 PSI	Preflush: BBI	30.00	Type: Gel Spacer
	Lost Returns-N	NO/FULL	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Actual TOC	2793'	Excess /Return BBI	N/A	Calc. Disp Bbl 236
Average	Bump Plug PSI:	1,500	Calc. TOC:	2,793	Actual Disp. 236.00
ISIF 5 Min.	10 Min	15 Min	Final Circ. PSI:	800	Disp:Bbl 236.00
			Cement Slurry BBI	113.7	
			Total Volume BBI	379.69	

CUSTOMER REPRESENTATIVE *Dwayne Burt* SIGNATURE



**Company:** Sandridge  
**Well Name:** Raymond 3505 1-7H  
**Legals:** Sec: 7 Township: 35S Range: 5W  
**County/State:** Harper County KS  
**Rig Name:** Unit 9

Customer Rep	Position	Directional Driller	MWD Operator
		Christopher Moon	Jerry Wilkins
		Bill Wright	

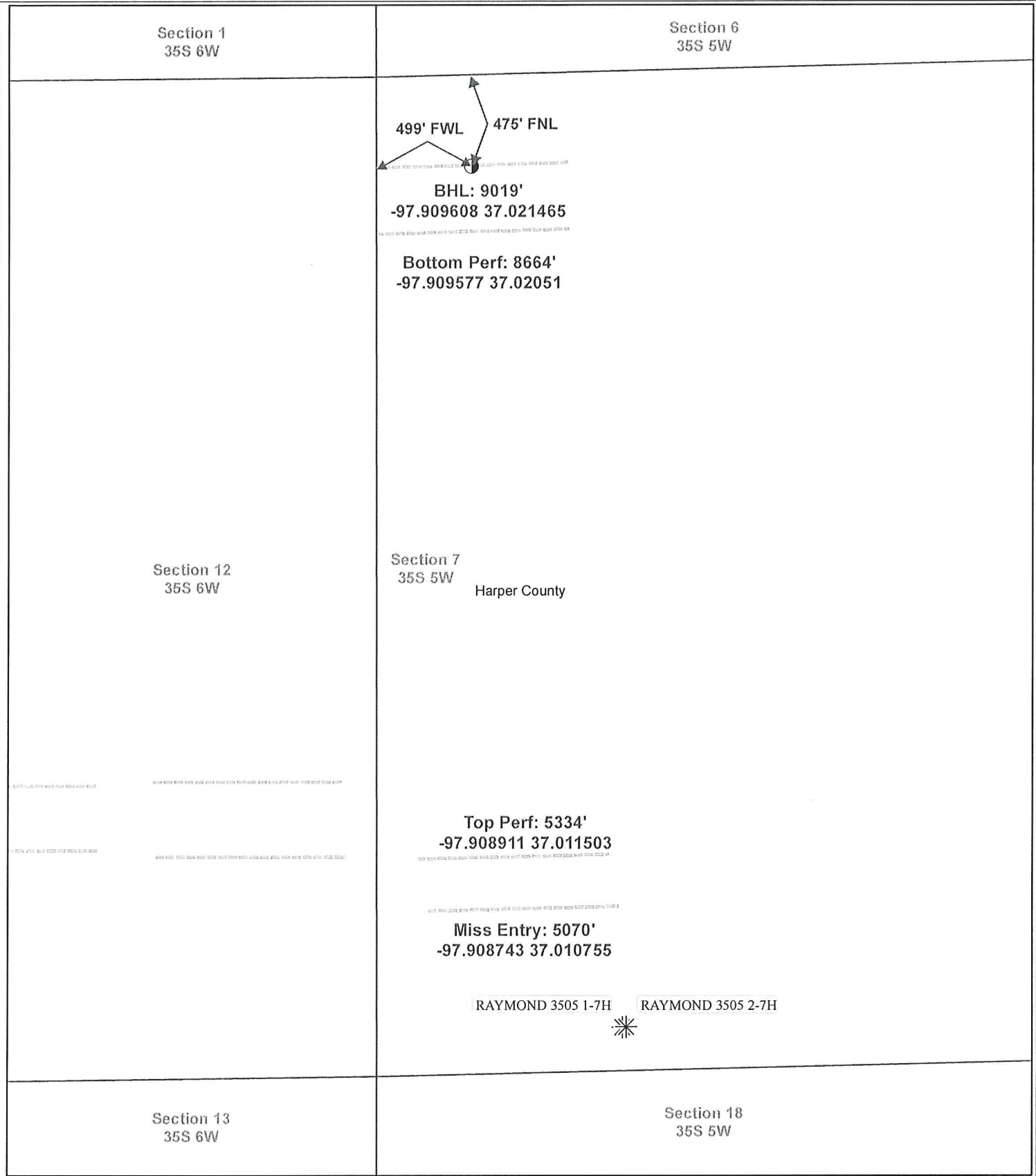
## Raymond 1-7H Upper Target Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	5028.00	71.90	352.00	4686.84	638.46	-501.00	702.61	0.43	0	0	321.88	811.56
Survey	5195.00	72.30	350.40	4738.17	795.50	-525.31	861.51	0.94	0.24	0.96	326.56	953.29
Survey	5225.00	69.70	350.40	4747.94	823.46	-530.04	889.86	8.67	8.67	0.00	327.23	979.30
Survey	5255.00	66.90	351.70	4759.03	851.00	-534.38	917.73	10.16	9.33	4.33	327.87	1004.87
Survey	5275.00	64.20	352.20	4767.31	869.02	-536.93	935.93	13.69	13.50	2.50	328.29	1021.51
Survey	5294.00	63.30	353.30	4775.71	885.92	-539.08	952.97	7.03	4.74	5.79	328.68	1037.04
Survey	5326.00	64.50	347.70	4789.80	914.25	-543.83	981.68	16.16	3.75	17.50	329.25	1063.77
Survey	5355.00	66.40	344.40	4801.85	939.84	-550.19	1007.91	12.25	6.55	11.38	329.65	1089.04
Survey	5385.00	69.40	343.90	4813.13	966.58	-557.79	1035.46	10.12	10.00	1.67	330.01	1115.98
Survey	5416.00	72.50	344.30	4823.25	994.76	-565.81	1064.49	10.07	10.00	1.29	330.37	1144.42
Survey	5446.00	75.10	343.50	4831.62	1022.43	-573.80	1093.00	9.04	8.67	2.67	330.70	1172.44
Survey	5477.00	78.70	344.00	4838.65	1051.41	-582.25	1122.89	11.72	11.61	1.61	331.02	1201.86
Survey	5539.00	85.30	346.80	4847.27	1110.79	-597.70	1183.85	11.55	10.65	4.52	331.72	1261.39
Survey	5570.00	88.80	345.10	4848.87	1140.82	-605.22	1214.64	12.55	11.29	5.48	332.05	1291.42
Survey	5601.00	91.90	347.40	4848.68	1170.92	-612.58	1245.47	12.45	10.00	7.42	332.38	1321.48
Survey	5632.00	93.30	349.40	4847.27	1201.26	-618.81	1276.39	7.87	4.52	6.45	332.75	1351.28
Survey	5662.00	93.30	351.30	4845.54	1230.78	-623.83	1306.32	6.32	0.00	6.33	333.12	1379.85
Survey	5693.00	93.50	352.70	4843.70	1261.43	-628.14	1337.27	4.55	0.65	4.52	333.53	1409.17
Survey	5723.00	93.00	355.10	4842.00	1291.21	-631.32	1367.20	8.16	1.67	8.00	333.94	1437.29
Survey	5754.00	93.00	356.00	4840.38	1322.07	-633.72	1398.10	2.90	0.00	2.90	334.39	1466.11
Survey	5785.00	92.70	356.00	4838.84	1352.96	-635.88	1428.98	0.97	0.97	0.00	334.83	1494.94
Survey	5815.00	93.70	357.20	4837.17	1382.86	-637.66	1458.83	5.20	3.33	4.00	335.24	1522.80
Survey	5907.00	92.50	357.00	4832.19	1474.60	-642.31	1550.32	1.32	1.30	0.22	336.46	1608.42
Survey	5999.00	92.80	357.20	4827.94	1566.39	-646.96	1641.85	0.39	0.33	0.22	337.56	1694.74
Survey	6092.00	91.60	357.00	4824.37	1659.20	-651.66	1734.40	1.31	1.29	0.22	338.56	1782.58
Survey	6152.00	93.60	357.30	4821.64	1719.06	-654.64	1794.08	3.37	3.33	0.50	339.15	1839.49
Survey	6184.00	93.20	357.40	4819.75	1750.97	-656.11	1825.88	1.29	1.25	0.31	339.46	1869.86
Survey	6276.00	92.90	356.70	4814.85	1842.71	-660.84	1917.37	0.83	0.33	0.76	340.27	1957.62
Survey	6368.00	91.10	356.20	4811.64	1934.48	-666.54	2009.03	2.03	1.96	0.54	340.99	2046.09
Survey	6428.00	92.20	356.70	4809.91	1994.34	-670.25	2068.82	2.01	1.83	0.83	341.42	2103.96
Survey	6459.00	92.70	356.80	4808.59	2025.26	-672.01	2099.68	1.64	1.61	0.32	341.64	2133.84
Survey	6521.00	94.40	356.80	4804.75	2087.04	-675.46	2161.33	2.74	2.74	0.00	342.07	2193.62
Survey	6552.00	94.20	356.30	4802.43	2117.90	-677.32	2192.14	1.73	0.65	1.61	342.27	2223.57
Survey	6613.00	93.50	357.90	4798.33	2178.68	-680.40	2252.75	2.86	1.15	2.62	342.66	2282.45
Survey	6643.00	93.60	357.40	4796.47	2208.60	-681.63	2282.55	1.70	0.33	1.67	342.85	2311.39
Survey	6707.00	93.20	357.20	4792.68	2272.41	-684.64	2346.14	0.70	0.62	0.31	343.23	2373.31
Survey	6738.00	92.80	357.40	4791.05	2303.34	-686.09	2376.97	1.44	1.29	0.65	343.41	2403.35
Survey	6802.00	92.30	357.50	4788.21	2367.21	-688.94	2440.61	0.80	0.78	0.16	343.77	2465.43
Survey	6834.00	91.80	355.60	4787.06	2399.13	-690.86	2472.48	6.14	1.56	5.94	343.94	2496.62
Survey	6929.00	90.90	356.70	4784.82	2493.89	-697.24	2567.19	1.50	0.95	1.16	344.38	2589.52
Survey	7024.00	92.40	355.60	4782.09	2588.63	-703.62	2661.89	1.96	1.58	1.16	344.79	2682.55
Survey	7120.00	90.90	354.80	4779.32	2684.25	-711.65	2757.69	1.77	1.56	0.83	345.15	2776.98



## Raymond 1-7H Upper Target Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	7183.00	91.60	354.70	4777.95	2746.97	-717.41	2820.59	1.12	1.11	0.16	345.36	2839.11
Survey	7246.00	92.70	355.70	4775.59	2809.70	-722.68	2883.44	2.36	1.75	1.59	345.58	2901.15
Survey	7335.00	92.00	358.70	4771.94	2898.51	-727.02	2971.98	3.46	0.79	3.37	345.92	2988.30
Survey	7366.00	92.60	0.90	4770.69	2929.48	-727.13	3002.65	7.35	1.94	7.10	346.06	3018.37
Survey	7430.00	92.40	1.80	4767.90	2993.40	-725.62	3065.73	1.44	0.31	1.41	346.37	3080.09
Survey	7494.00	92.70	3.10	4765.05	3057.28	-722.89	3128.59	2.08	0.47	2.03	346.70	3141.58
Survey	7527.00	92.70	3.00	4763.50	3090.20	-721.13	3160.93	0.30	0.00	0.30	346.86	3173.23
Survey	7590.00	93.00	2.90	4760.36	3153.04	-717.90	3222.69	0.50	0.48	0.16	347.17	3233.73
Survey	7621.00	92.80	2.70	4758.80	3183.96	-716.38	3253.09	0.91	0.65	0.65	347.32	3263.56
Survey	7686.00	91.70	2.20	4756.24	3248.85	-713.61	3316.94	1.86	1.69	0.77	347.61	3326.30
Survey	7717.00	91.80	2.10	4755.30	3279.81	-712.44	3347.43	0.46	0.32	0.32	347.74	3356.30
Survey	7781.00	91.50	1.90	4753.46	3343.75	-710.21	3410.42	0.56	0.47	0.31	348.01	3418.34
Survey	7812.00	91.60	1.80	4752.62	3374.72	-709.21	3440.94	0.46	0.32	0.32	348.13	3448.44
Survey	7876.00	91.90	2.60	4750.66	3438.64	-706.76	3503.88	1.33	0.47	1.25	348.39	3510.52
Survey	7908.00	92.30	2.60	4749.49	3470.59	-705.31	3535.31	1.25	1.25	0.00	348.51	3541.53
Survey	8003.00	91.60	2.20	4746.26	3565.45	-701.33	3628.66	0.85	0.74	0.42	348.87	3633.77
Survey	8098.00	90.30	1.50	4744.68	3660.39	-698.27	3722.23	1.55	1.37	0.74	349.20	3726.40
Survey	8162.00	91.00	1.60	4743.95	3724.36	-696.54	3785.32	1.10	1.09	0.16	349.41	3788.93
Survey	8224.00	91.20	3.10	4742.76	3786.30	-694.00	3846.29	2.44	0.32	2.42	349.61	3849.38
Survey	8288.00	92.20	3.50	4740.86	3850.16	-690.32	3908.99	1.68	1.56	0.63	349.84	3911.56
Survey	8351.00	94.70	4.00	4737.07	3912.91	-686.21	3970.54	4.05	3.97	0.79	350.05	3972.62
Survey	8447.00	95.10	3.70	4728.87	4008.34	-679.79	4064.12	0.52	0.42	0.31	350.37	4065.58
Survey	8478.00	95.20	3.80	4726.09	4039.15	-677.77	4094.33	0.46	0.32	0.32	350.47	4095.62
Survey	8510.00	93.70	2.90	4723.60	4071.00	-675.90	4125.60	5.46	4.69	2.81	350.57	4126.73
Survey	8573.00	93.50	2.60	4719.64	4133.80	-672.88	4187.35	0.57	0.32	0.48	350.75	4188.21
Survey	8668.00	92.00	0.90	4715.09	4228.64	-669.99	4280.84	2.38	1.58	1.79	351.00	4281.39
Survey	8731.00	89.90	359.60	4714.05	4291.63	-669.72	4343.17	3.92	3.33	2.06	351.13	4343.57
Survey	8763.00	90.10	359.50	4714.05	4323.62	-669.97	4374.88	0.70	0.62	0.31	351.19	4375.22
Survey	8826.00	89.60	359.30	4714.21	4386.62	-670.63	4437.34	0.85	0.79	0.32	351.31	4437.59
Survey	8889.00	90.90	359.20	4713.94	4449.61	-671.45	4499.82	2.07	2.06	0.16	351.42	4499.99
Survey	8952.00	91.10	359.70	4712.84	4512.60	-672.06	4562.27	0.85	0.32	0.79	351.53	4562.37
Survey	8968.00	91.20	0.10	4712.52	4528.60	-672.09	4578.11	2.58	0.63	2.50	351.56	4578.20
PrjCalcPnt	9019	91.2	0.1	4711.45	4579.59	-672.00	4628.58	0	0	0	351.65	4628.63



**Actual Bottom-Hole Location of Raymond 3505 1-7H 1L**

Harper County, Kansas  
T&R: 35S 5W

Section: 7, 499' FWL & 475' FNL  
-97.909608 37.021465

1 in = 667 ft

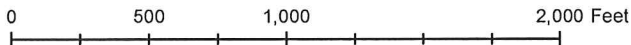


○ Actual BH Location

\* SandRidge Wells

□ Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/20/2014

Drawing Name/Number:

Addendum\_Raymond 3505 1-7H .mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

## Summary of Changes

Lease Name and Number: Raymond 3505 1-7H 1L

API/Permit #: 15-077-21987-02-00

Doc ID: 1208469

Correction Number: 2

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	03/21/2014	06/04/2014
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=11 94909	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 08469
Well Type	SLOW	OIL

## Summary of Attachments

Lease Name and Number: Raymond 3505 1-7H 1L

API: 15-077-21987-02-00

Doc ID: 1208469

Correction Number: 2

Attachment Name

Frac Disclosure

Cement Tickets

Directional Survey

As Drilled Plat



Confidentiality Requested:

Yes  No

# CONFIDENTIAL 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
-----------------------------------	-----------------	---

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: \_\_\_\_\_





Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1194909  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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 # \_\_\_\_\_

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

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: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Raymond 3505 1-7H 1L
Doc ID	1194909

All Electric Logs Run

Prizm
Boresight
Resistivity
Porosity
Mud

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Raymond 3505 1-7H 1L
Doc ID	1194909

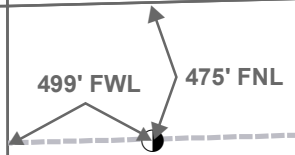
#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8664-8910	1500 gals 15% HCl, 5679 bbls of sw, TLTR 6027 bbls	
5	8304-8599	1500 gals 15% HCl, 5535 bbls of sw, TLTR 11768 bbls	
5	7930-8248	1500 gals 15% HCl, 5419 bbls of sw, TLTR 17350 bbls	
5	7538-7836	1500 gals 15% HCl, 5469 bbls of sw, TLTR 22925 bbls	
5	7183-7455	1500 gals 15% HCl, 5451 bbls of sw, TLTR 28470 bbls	
5	6810-7080	1500 gals 15% HCl, 5416 bbls of sw, TLTR 33574 bbls	
5	6453-6721	1500 gals 15% HCl, 5305 bbls of sw, TLTR 38509 bbls	
5	6071-6363	1500 gals 15% HCl, 5447 bbls of sw, TLTR 43956 bbls	
5	5700-5981	1500 gals 15% HCl, 5234 bbls of sw, TLTR 49230 bbls	
5	5334-5606	1500 gals 15% HCl, 5366 bbls of sw, TLTR 54634 bbls	



Section 1  
35S 6W

Section 6  
35S 5W



**BHL: 9019'**  
**-97.909608 37.021465**

**Bottom Perf: 8664'**  
**-97.909577 37.02051**

Section 12  
35S 6W

Section 7  
35S 5W  
Harper County

**Top Perf: 5334'**  
**-97.908911 37.011503**

**Miss Entry: 5070'**  
**-97.908743 37.010755**

RAYMOND 3505 1-7H

RAYMOND 3505 2-7H



Section 13  
35S 6W

Section 18  
35S 5W



**Actual Bottom-Hole Location of Raymond 3505 1-7H 1L**  
**Harper County, Kansas**

**T&R: 35S 5W**  
**Section: 7, 499' FWL & 475' FNL**  
**-97.909608 37.021465**

1 in = 667 ft

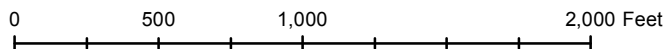


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 3/20/2014

Drawing Name/Number:

Addendum\_Raymond 3505 1-7H .mxd

Coordinate System:

NAD 1927 State Plane  
 Kansas South FIPS: 1502

**Company:** Sandridge  
**Well Name:** Raymond 3505 1-7H  
**Legals:** Sec: 7 Township: 35S Range: 5W  
**County/State:** Harper County KS  
**Rig Name:** Unit 9

Customer Rep	Position	Directional Driller	MWD Operator
		Christopher Moon	Jerry Wilkins
		Bill Wright	

## Raymond 1-7H Upper Target Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	5028.00	71.90	352.00	4686.84	638.46	-501.00	702.61	0.43	0	0	321.88	811.56
Survey	5195.00	72.30	350.40	4738.17	795.50	-525.31	861.51	0.94	0.24	0.96	326.56	953.29
Survey	5225.00	69.70	350.40	4747.94	823.46	-530.04	889.86	8.67	8.67	0.00	327.23	979.30
Survey	5255.00	66.90	351.70	4759.03	851.00	-534.38	917.73	10.16	9.33	4.33	327.87	1004.87
Survey	5275.00	64.20	352.20	4767.31	869.02	-536.93	935.93	13.69	13.50	2.50	328.29	1021.51
Survey	5294.00	63.30	353.30	4775.71	885.92	-539.08	952.97	7.03	4.74	5.79	328.68	1037.04
Survey	5326.00	64.50	347.70	4789.80	914.25	-543.83	981.68	16.16	3.75	17.50	329.25	1063.77
Survey	5355.00	66.40	344.40	4801.85	939.84	-550.19	1007.91	12.25	6.55	11.38	329.65	1089.04
Survey	5385.00	69.40	343.90	4813.13	966.58	-557.79	1035.46	10.12	10.00	1.67	330.01	1115.98
Survey	5416.00	72.50	344.30	4823.25	994.76	-565.81	1064.49	10.07	10.00	1.29	330.37	1144.42
Survey	5446.00	75.10	343.50	4831.62	1022.43	-573.80	1093.00	9.04	8.67	2.67	330.70	1172.44
Survey	5477.00	78.70	344.00	4838.65	1051.41	-582.25	1122.89	11.72	11.61	1.61	331.02	1201.86
Survey	5539.00	85.30	346.80	4847.27	1110.79	-597.70	1183.85	11.55	10.65	4.52	331.72	1261.39
Survey	5570.00	88.80	345.10	4848.87	1140.82	-605.22	1214.64	12.55	11.29	5.48	332.05	1291.42
Survey	5601.00	91.90	347.40	4848.68	1170.92	-612.58	1245.47	12.45	10.00	7.42	332.38	1321.48
Survey	5632.00	93.30	349.40	4847.27	1201.26	-618.81	1276.39	7.87	4.52	6.45	332.75	1351.28
Survey	5662.00	93.30	351.30	4845.54	1230.78	-623.83	1306.32	6.32	0.00	6.33	333.12	1379.85
Survey	5693.00	93.50	352.70	4843.70	1261.43	-628.14	1337.27	4.55	0.65	4.52	333.53	1409.17
Survey	5723.00	93.00	355.10	4842.00	1291.21	-631.32	1367.20	8.16	1.67	8.00	333.94	1437.29
Survey	5754.00	93.00	356.00	4840.38	1322.07	-633.72	1398.10	2.90	0.00	2.90	334.39	1466.11
Survey	5785.00	92.70	356.00	4838.84	1352.96	-635.88	1428.98	0.97	0.97	0.00	334.83	1494.94
Survey	5815.00	93.70	357.20	4837.17	1382.86	-637.66	1458.83	5.20	3.33	4.00	335.24	1522.80
Survey	5907.00	92.50	357.00	4832.19	1474.60	-642.31	1550.32	1.32	1.30	0.22	336.46	1608.42
Survey	5999.00	92.80	357.20	4827.94	1566.39	-646.96	1641.85	0.39	0.33	0.22	337.56	1694.74
Survey	6092.00	91.60	357.00	4824.37	1659.20	-651.66	1734.40	1.31	1.29	0.22	338.56	1782.58
Survey	6152.00	93.60	357.30	4821.64	1719.06	-654.64	1794.08	3.37	3.33	0.50	339.15	1839.49
Survey	6184.00	93.20	357.40	4819.75	1750.97	-656.11	1825.88	1.29	1.25	0.31	339.46	1869.86
Survey	6276.00	92.90	356.70	4814.85	1842.71	-660.84	1917.37	0.83	0.33	0.76	340.27	1957.62
Survey	6368.00	91.10	356.20	4811.64	1934.48	-666.54	2009.03	2.03	1.96	0.54	340.99	2046.09
Survey	6428.00	92.20	356.70	4809.91	1994.34	-670.25	2068.82	2.01	1.83	0.83	341.42	2103.96
Survey	6459.00	92.70	356.80	4808.59	2025.26	-672.01	2099.68	1.64	1.61	0.32	341.64	2133.84
Survey	6521.00	94.40	356.80	4804.75	2087.04	-675.46	2161.33	2.74	2.74	0.00	342.07	2193.62
Survey	6552.00	94.20	356.30	4802.43	2117.90	-677.32	2192.14	1.73	0.65	1.61	342.27	2223.57
Survey	6613.00	93.50	357.90	4798.33	2178.68	-680.40	2252.75	2.86	1.15	2.62	342.66	2282.45
Survey	6643.00	93.60	357.40	4796.47	2208.60	-681.63	2282.55	1.70	0.33	1.67	342.85	2311.39
Survey	6707.00	93.20	357.20	4792.68	2272.41	-684.64	2346.14	0.70	0.62	0.31	343.23	2373.31
Survey	6738.00	92.80	357.40	4791.05	2303.34	-686.09	2376.97	1.44	1.29	0.65	343.41	2403.35
Survey	6802.00	92.30	357.50	4788.21	2367.21	-688.94	2440.61	0.80	0.78	0.16	343.77	2465.43
Survey	6834.00	91.80	355.60	4787.06	2399.13	-690.86	2472.48	6.14	1.56	5.94	343.94	2496.62
Survey	6929.00	90.90	356.70	4784.82	2493.89	-697.24	2567.19	1.50	0.95	1.16	344.38	2589.52
Survey	7024.00	92.40	355.60	4782.09	2588.63	-703.62	2661.89	1.96	1.58	1.16	344.79	2682.55
Survey	7120.00	90.90	354.80	4779.32	2684.25	-711.65	2757.69	1.77	1.56	0.83	345.15	2776.98

## Raymond 1-7H Upper Target Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	7183.00	91.60	354.70	4777.95	2746.97	-717.41	2820.59	1.12	1.11	0.16	345.36	2839.11
Survey	7246.00	92.70	355.70	4775.59	2809.70	-722.68	2883.44	2.36	1.75	1.59	345.58	2901.15
Survey	7335.00	92.00	358.70	4771.94	2898.51	-727.02	2971.98	3.46	0.79	3.37	345.92	2988.30
Survey	7366.00	92.60	0.90	4770.69	2929.48	-727.13	3002.65	7.35	1.94	7.10	346.06	3018.37
Survey	7430.00	92.40	1.80	4767.90	2993.40	-725.62	3065.73	1.44	0.31	1.41	346.37	3080.09
Survey	7494.00	92.70	3.10	4765.05	3057.28	-722.89	3128.59	2.08	0.47	2.03	346.70	3141.58
Survey	7527.00	92.70	3.00	4763.50	3090.20	-721.13	3160.93	0.30	0.00	0.30	346.86	3173.23
Survey	7590.00	93.00	2.90	4760.36	3153.04	-717.90	3222.69	0.50	0.48	0.16	347.17	3233.73
Survey	7621.00	92.80	2.70	4758.80	3183.96	-716.38	3253.09	0.91	0.65	0.65	347.32	3263.56
Survey	7686.00	91.70	2.20	4756.24	3248.85	-713.61	3316.94	1.86	1.69	0.77	347.61	3326.30
Survey	7717.00	91.80	2.10	4755.30	3279.81	-712.44	3347.43	0.46	0.32	0.32	347.74	3356.30
Survey	7781.00	91.50	1.90	4753.46	3343.75	-710.21	3410.42	0.56	0.47	0.31	348.01	3418.34
Survey	7812.00	91.60	1.80	4752.62	3374.72	-709.21	3440.94	0.46	0.32	0.32	348.13	3448.44
Survey	7876.00	91.90	2.60	4750.66	3438.64	-706.76	3503.88	1.33	0.47	1.25	348.39	3510.52
Survey	7908.00	92.30	2.60	4749.49	3470.59	-705.31	3535.31	1.25	1.25	0.00	348.51	3541.53
Survey	8003.00	91.60	2.20	4746.26	3565.45	-701.33	3628.66	0.85	0.74	0.42	348.87	3633.77
Survey	8098.00	90.30	1.50	4744.68	3660.39	-698.27	3722.23	1.55	1.37	0.74	349.20	3726.40
Survey	8162.00	91.00	1.60	4743.95	3724.36	-696.54	3785.32	1.10	1.09	0.16	349.41	3788.93
Survey	8224.00	91.20	3.10	4742.76	3786.30	-694.00	3846.29	2.44	0.32	2.42	349.61	3849.38
Survey	8288.00	92.20	3.50	4740.86	3850.16	-690.32	3908.99	1.68	1.56	0.63	349.84	3911.56
Survey	8351.00	94.70	4.00	4737.07	3912.91	-686.21	3970.54	4.05	3.97	0.79	350.05	3972.62
Survey	8447.00	95.10	3.70	4728.87	4008.34	-679.79	4064.12	0.52	0.42	0.31	350.37	4065.58
Survey	8478.00	95.20	3.80	4726.09	4039.15	-677.77	4094.33	0.46	0.32	0.32	350.47	4095.62
Survey	8510.00	93.70	2.90	4723.60	4071.00	-675.90	4125.60	5.46	4.69	2.81	350.57	4126.73
Survey	8573.00	93.50	2.60	4719.64	4133.80	-672.88	4187.35	0.57	0.32	0.48	350.75	4188.21
Survey	8668.00	92.00	0.90	4715.09	4228.64	-669.99	4280.84	2.38	1.58	1.79	351.00	4281.39
Survey	8731.00	89.90	359.60	4714.05	4291.63	-669.72	4343.17	3.92	3.33	2.06	351.13	4343.57
Survey	8763.00	90.10	359.50	4714.05	4323.62	-669.97	4374.88	0.70	0.62	0.31	351.19	4375.22
Survey	8826.00	89.60	359.30	4714.21	4386.62	-670.63	4437.34	0.85	0.79	0.32	351.31	4437.59
Survey	8889.00	90.90	359.20	4713.94	4449.61	-671.45	4499.82	2.07	2.06	0.16	351.42	4499.99
Survey	8952.00	91.10	359.70	4712.84	4512.60	-672.06	4562.27	0.85	0.32	0.79	351.53	4562.37
Survey	8968.00	91.20	0.10	4712.52	4528.60	-672.09	4578.11	2.58	0.63	2.50	351.56	4578.20
PrjCalcPnt	9019	91.2	0.1	4711.45	4579.59	-672.00	4628.58	0	0	0	351.65	4628.63









# JOB SUMMARY

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3319</b>	TICKET DATE <b>01/12/14</b>
COUNTY <b>Harper</b>	STATE <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Dwayne Burt</b>	
LEASE NAME <b>Raymond 3505</b>	Well No. <b>1-7H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>NATHAN COTTA</b>	

EMP NAME	John Hall	0					
	Joseph Klemm						
	Roy Morris						
	David Thomas						

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At **0**  
 Bottom Hole Temp. **130** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **6,264'**

Date	Called Out <b>1.12.14</b>	On Location <b>1.12.14</b>	Job Started <b>1.12.14</b>	Job Completed <b>1.12.14</b>
Time	<b>500</b>	<b>900</b>	<b>1437</b>	<b>1630</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	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

New/Used		Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 7/8"		Surface	0	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Gel-Bent BBL.	30	10.00
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	
Perpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
1.12.14	7.5	1.12.14	2.0	Intermediate
Total	7.5	Total	2.0	

MAX	3500 PSI	AVG.	400
Average Rates in BPM			
MAX	6.5 BPM	AVG.	5
Cement Left in Pipe			
Feet	89	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	280	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.1% C-37 - 0.2% C-20 - 0.4% C-41P	6.93	1.43	13.60
2	200	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	30.00	Type:	MAXIMUM	3500 PSI	Preflush: BBI
Breakdown	N/A		Lost Returns-ft	NO/FULL	Load & Bkdn: Gal - BBI
	N/A		Actual TOC	2,793'	Excess /Return BBI
Average	2,793		Bump Plug PSI:	1,500	Calc. TOC:
ISIF	800		10 Min	15 Min	Final Circ. PSI:
	113.7				Cement Slurry BBI
	379.69				Total Volume BBI

CUSTOMER REPRESENTATIVE *Dwayne Burt* SIGNATURE