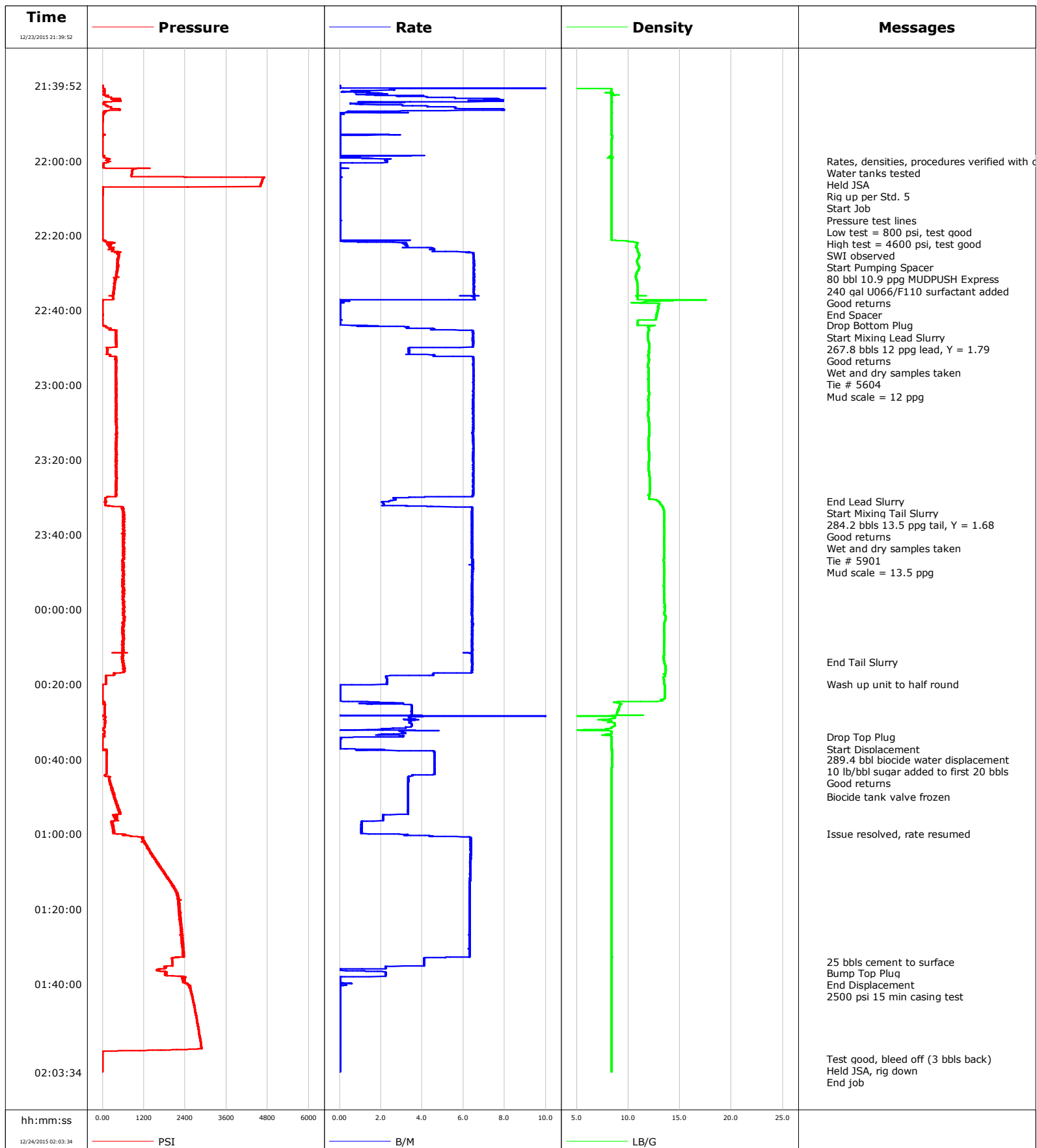


**Well** Cook 27N-16HZ  
**Field** Wattenberg  
**Engineer** Langley/Leiker  
**Country** United States

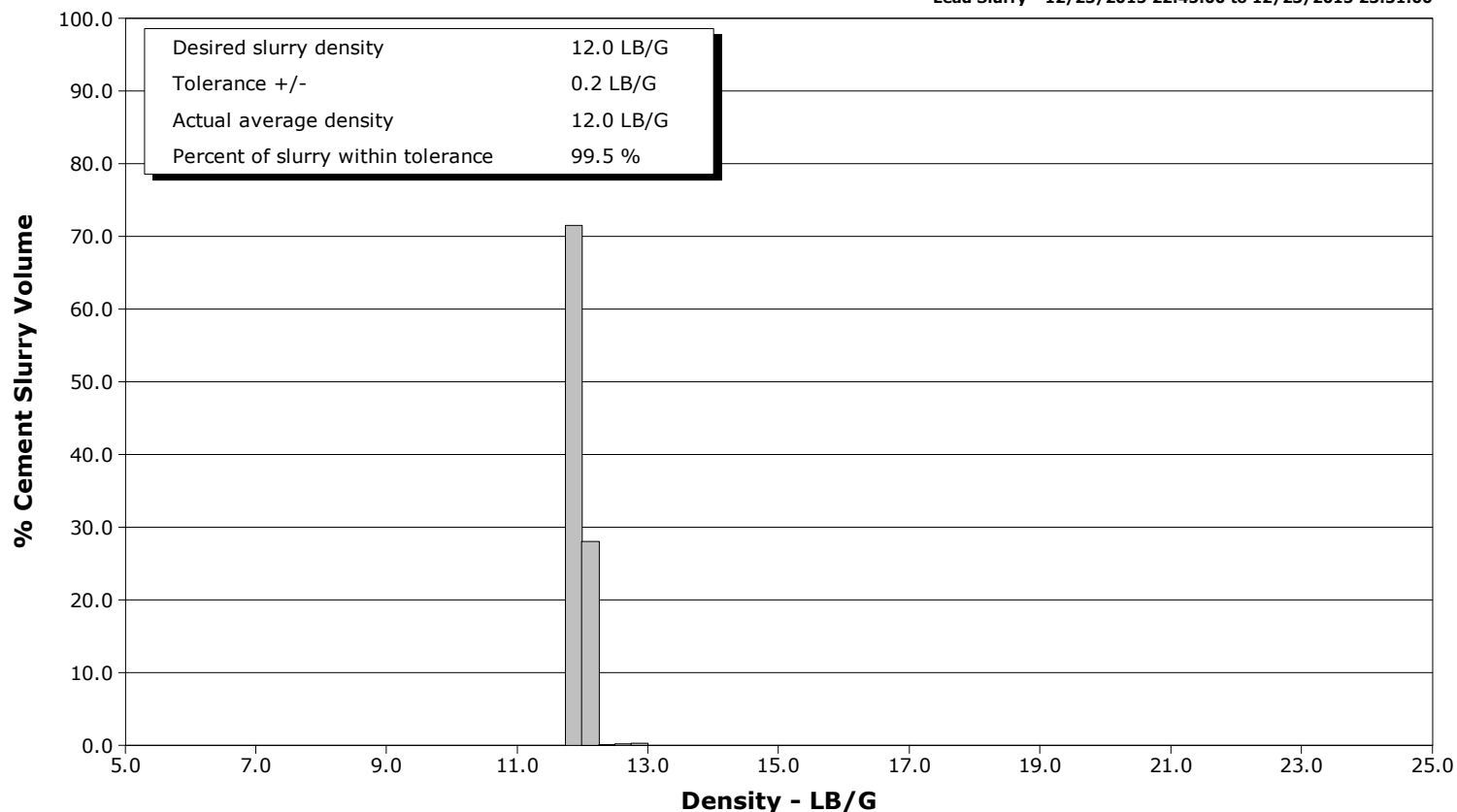
**Client** Anadarko Petroleum Company  
**SIR No.** D2IK-01569  
**Job Type** 5.5" Monobore Production  
**Job Date** 2/24/2015



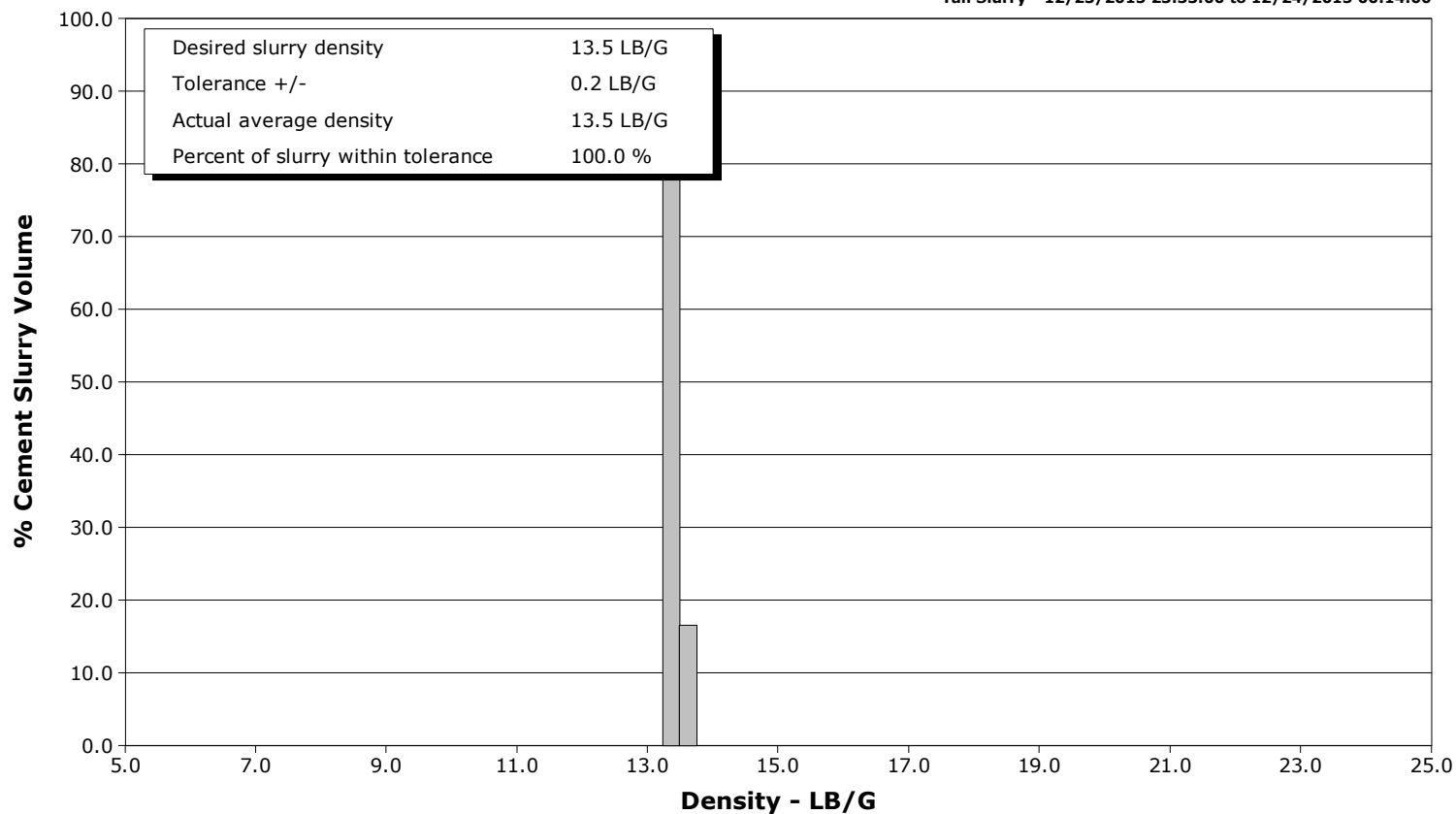
**Well** Cook 27N-16HZ  
**Field** Wattenberg  
**Engineer** Langley/Leiker  
**Country** United States

**Client** Anadarko Petroleum Company  
**SIR No.** D2IK-01569  
**Job Type** 5.5" Monobore Production  
**Job Date** 2/24/2015

**Lead Slurry - 12/23/2015 22:45:00 to 12/23/2015 23:31:00**



**Tail Slurry - 12/23/2015 23:33:00 to 12/24/2015 00:14:00**



Page 1 of 4

Well			Field		Job Start		Customer		Job Number	
Cook 27N-16HZ 27N-16HZ			Wattenberg		Dec/24/2015		Anadarko Petroleum Company		D2IK-01569	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message			
12/23/2015	22:15:52	9	0.0	8.37	3.4	0				
12/23/2015	22:17:52	11	0.0	8.37	3.5	0				
12/23/2015	22:19:00	11	0.0	8.37	3.5	0	Start Pumping Spacer			
12/23/2015	22:19:52	11	0.0	8.37	3.5	0				
12/23/2015	22:20:00	11	0.0	8.37	3.5	0	80 bbl 10.9 ppg MUDPUSH Express			
12/23/2015	22:21:00	11	0.0	8.37	3.5	0	Good returns			
12/23/2015	22:21:52	261	3.1	10.80	4.3	2				
12/23/2015	22:23:52	322	4.6	10.89	11.6	4				
12/23/2015	22:25:52	462	6.5	11.00	23.6	9				
12/23/2015	22:27:52	431	6.5	10.97	36.6	23				
12/23/2015	22:29:52	405	6.5	10.82	49.6	30				
12/23/2015	22:31:52	354	6.5	10.79	62.6	23				
12/23/2015	22:33:52	346	6.5	10.90	75.6	20				
12/23/2015	22:35:52	318	6.5	10.90	88.6	0				
12/23/2015	22:36:00	318	6.5	10.89	89.4	0	End Spacer			
12/23/2015	22:37:52	19	0.1	11.49	97.2	0				
12/23/2015	22:39:52	16	0.0	12.85	97.2	0				
12/23/2015	22:41:52	22	0.0	12.70	97.2	0				
12/23/2015	22:43:52	18	0.0	10.89	97.2	0				
12/23/2015	22:44:00	26	0.8	11.10	97.3	0	Drop Bottom Plug			
12/23/2015	22:45:00	241	4.6	11.97	100.2	0	Start Mixing Lead Slurry			
12/23/2015	22:45:52	450	6.4	11.93	105.3	0				
12/23/2015	22:46:00	462	6.5	11.91	106.1	1	267.8 bbls 12 ppg lead, Y = 1.79			
12/23/2015	22:47:00	442	6.4	11.91	112.6	5	Good returns			
12/23/2015	22:47:52	441	6.5	11.93	118.2	5				
12/23/2015	22:48:00	435	6.5	11.93	119.1	5	Mud scale = 12 ppg			
12/23/2015	22:49:52	408	6.4	12.03	131.1	13				
12/23/2015	22:51:52	246	4.5	11.94	138.1	9				
12/23/2015	22:53:52	449	6.5	11.96	150.1	17				
12/23/2015	22:55:52	445	6.5	11.96	163.1	12				
12/23/2015	22:57:52	461	6.5	11.96	176.0	9				
12/23/2015	22:59:52	457	6.5	11.98	189.0	8				
12/23/2015	23:01:52	436	6.5	11.99	201.9	12				
12/23/2015	23:03:52	464	6.5	11.93	214.7	9				
12/23/2015	23:05:52	472	6.5	11.98	227.8	9				
12/23/2015	23:07:52	463	6.5	11.92	240.7	8				
12/23/2015	23:09:52	463	6.5	11.99	253.6	7				
12/23/2015	23:11:52	476	6.5	12.01	266.6	5				
12/23/2015	23:13:52	490	6.5	11.98	279.5	5				
12/23/2015	23:15:52	461	6.5	11.95	292.4	4				
12/23/2015	23:17:52	487	6.5	12.00	305.4	4				
12/23/2015	23:19:52	461	6.5	12.00	318.3	3				
12/23/2015	23:21:52	457	6.5	11.96	331.2	3				
12/23/2015	23:23:52	472	6.5	12.03	344.1	2				
12/23/2015	23:25:52	477	6.5	12.08	357.1	2				
12/23/2015	23:27:52	471	6.5	12.08	370.0	2				
12/23/2015	23:29:52	176	4.1	12.02	382.9	0				
12/23/2015	23:31:00	130	2.4	12.86	386.0	4	End Lead Slurry			
12/23/2015	23:31:52	125	2.1	13.16	387.9	4				
12/23/2015	23:33:00	622	6.4	13.39	392.9	4	Start Mixing Tail Slurry			
12/23/2015	23:33:52	632	6.4	13.45	398.5	4				
12/23/2015	23:34:00	646	6.4	13.46	399.3	4	284.2 bbls 13.5 ppg tail, Y = 1.68			
12/23/2015	23:35:52	647	6.4	13.48	411.3	4				
12/23/2015	23:37:52	618	6.4	13.47	424.1	3				

Well			Field		Job Start		Customer		Job Number	
Cook 27N-16HZ 27N-16HZ			Wattenberg		Dec/24/2015		Anadarko Petroleum Company		D2IK-01569	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message			
12/23/2015	23:41:52	611	6.4	13.45	449.8	3				
12/23/2015	23:43:52	617	6.4	13.50	462.6	3				
12/23/2015	23:45:52	628	6.4	13.47	475.4	3				
12/23/2015	23:47:52	614	6.4	13.45	488.3	3				
12/23/2015	23:49:52	597	6.5	13.46	501.2	13				
12/23/2015	23:51:52	611	6.4	13.43	514.0	9				
12/23/2015	23:53:52	640	6.4	13.46	526.8	7				
12/23/2015	23:55:52	642	6.4	13.47	539.7	6				
12/23/2015	23:57:52	625	6.4	13.47	552.5	5				
12/23/2015	23:59:52	632	6.4	13.52	565.3	5				
12/24/2015	00:01:52	655	6.4	13.59	578.2	5				
12/24/2015	00:03:52	606	6.4	13.49	591.0	4				
12/24/2015	00:05:52	625	6.4	13.45	603.9	5				
12/24/2015	00:07:52	641	6.4	13.50	616.7	4				
12/24/2015	00:09:52	600	6.4	13.43	629.5	4				
12/24/2015	00:11:52	632	6.4	13.46	642.3	4				
12/24/2015	00:13:52	605	6.4	13.46	655.2	4				
12/24/2015	00:14:00	611	6.4	13.46	656.0	4	End Tail Slurry			
12/24/2015	00:15:52	631	6.4	13.61	668.0	4				
12/24/2015	00:17:52	145	2.3	13.53	678.5	0				
12/24/2015	00:19:52	143	2.3	13.46	683.0	69				
12/24/2015	00:20:00	84	2.1	13.47	683.3	72	Wash up unit to half round			
12/24/2015	00:21:52	36	0.0	13.53	683.5	0				
12/24/2015	00:23:52	36	0.0	13.48	683.5	0				
12/24/2015	00:25:52	128	3.5	9.14	686.9	73				
12/24/2015	00:27:52	121	3.5	8.89	693.8	73				
12/24/2015	00:29:52	140	3.4	8.37	702.5	25				
12/24/2015	00:31:52	78	2.3	7.96	709.1	26				
12/24/2015	00:33:52	96	3.1	8.36	714.5	26				
12/24/2015	00:34:00	100	3.1	8.35	714.9	26	Drop Top Plug			
12/24/2015	00:35:52	35	0.0	8.36	715.2	0				
12/24/2015	00:37:52	184	4.6	8.40	716.7	0				
12/24/2015	00:39:52	160	4.6	8.40	725.9	0				
12/24/2015	00:40:00	158	4.6	8.40	726.5	0	289.4 bbl biocide water displacement			
12/24/2015	00:41:52	157	4.6	8.40	735.1	0				
12/24/2015	00:43:52	164	4.6	8.36	744.2	0				
12/24/2015	00:45:52	265	3.3	8.36	751.3	0				
12/24/2015	00:47:52	328	3.3	8.36	757.9	0				
12/24/2015	00:49:52	389	3.3	8.36	764.6	0				
12/24/2015	00:50:00	382	3.3	8.36	765.0	0	Biocide tank valve frozen			
12/24/2015	00:51:52	439	3.3	8.36	771.2	0				
12/24/2015	00:53:52	533	3.3	8.36	777.8	0				
12/24/2015	00:55:52	428	2.1	8.36	783.1	0				
12/24/2015	00:57:52	360	1.1	8.36	785.8	0				
12/24/2015	00:59:52	424	1.1	8.36	787.9	0				
12/24/2015	01:00:00	688	2.9	8.36	788.2	0	Issue resolved, rate resumed			
12/24/2015	01:01:52	1254	6.4	8.35	798.3	0				
12/24/2015	01:03:52	1394	6.3	8.38	811.0	0				
12/24/2015	01:05:52	1526	6.3	8.38	823.7	0				
12/24/2015	01:07:52	1678	6.3	8.38	836.3	0				
12/24/2015	01:09:52	1818	6.3	8.38	849.0	0				
12/24/2015	01:11:52	1974	6.3	8.38	861.7	0				
12/24/2015	01:13:52	2132	6.3	8.38	874.3	0				
12/24/2015	01:15:52	2211	6.3	8.38	886.9	0				

Well			Field		Job Start		Customer		Job Number
Cook 27N-16HZ 27N-16HZ			Wattenberg		Dec/24/2015		Anadarko Petroleum Company		D2IK-01569
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message		
12/24/2015	01:19:52	2263	6.3	8.38	912.1	0			
12/24/2015	01:21:52	2287	6.3	8.38	924.7	0			
12/24/2015	01:23:52	2308	6.3	8.38	937.3	0			
12/24/2015	01:25:52	2331	6.3	8.38	949.9	0			
12/24/2015	01:27:52	2364	6.3	8.38	962.4	0			
12/24/2015	01:29:52	2365	6.3	8.38	975.0	0			
12/24/2015	01:31:52	2414	6.3	8.38	987.6	0			
12/24/2015	01:33:52	2071	4.1	8.36	998.2	0			
12/24/2015	01:34:00	2069	4.1	8.36	998.7	0	25 bbls cement to surface		
12/24/2015	01:35:52	1890	2.2	8.36	1005.3	0			
12/24/2015	01:37:00	1894	2.2	8.36	1006.5	0	Bump Top Plug		
12/24/2015	01:37:52	2103	2.2	8.36	1008.4	0			
12/24/2015	01:38:00	2361	2.2	8.36	1008.7	0	End Displacement		
12/24/2015	01:39:52	2495	0.6	8.36	1008.9	0			
12/24/2015	01:40:00	2531	0.0	8.36	1009.0	0	2500 psi 15 min casing test		
12/24/2015	01:41:52	2631	0.0	8.36	1009.0	0			
12/24/2015	01:43:52	2670	0.0	8.36	1009.0	0			
12/24/2015	01:45:52	2716	0.0	8.36	1009.0	0			
12/24/2015	01:47:52	2758	0.0	8.36	1009.0	0			
12/24/2015	01:49:52	2797	0.0	8.36	1009.0	0			
12/24/2015	01:51:52	2836	0.0	8.36	1009.0	0			
12/24/2015	01:53:52	2873	0.0	8.36	1009.0	0			
12/24/2015	01:55:52	2909	0.0	8.36	1009.0	0			
12/24/2015	01:57:52	621	0.0	8.37	1009.0	0			
12/24/2015	01:59:52	30	0.0	8.36	1009.1	0			
12/24/2015	02:00:00	29	0.0	8.36	1009.1	0	Test good, bleed off (3 bbls back)		

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2			
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final 0	Average	Bump Plug to 2100	Breakdown	Type	Volume bbl		Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 0.0 bbl		Displacement bbl	Mix Water Temp 62 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 25.0 bbl				
					Washed Thru Perfs <input type="checkbox"/>		To ft				
Customer or Authorized Representative Dan Strawn			Schlumberger Supervisor Langley/Leiker			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>				
						-	-				



<b>Service Order #:</b>	
<b>Date:</b>	Dec/24/2015
<b>Operating Time (hh:mm):</b>	00:00
<b>Client Rep:</b>	Dan Strawn
<b>Schlumberger Engineer:</b>	Langley/Leiker
<b>Schlumberger FSM:</b>	Dan Joelson

**To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.**

<b>4</b>	<b>Evaluation</b>					
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>		10
Sub-total						100%

**Comments:** (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

<b>Client:</b>	<b>Schlumberger:</b>
<b>Client Signature:</b>	<b>Schlumberger Signature:</b>