

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5208  
Name: ExxonMobil Oil Corporation  
Address: P. O. Box 4358  
City/State/Zip: Houston, Texas 77210-4358  
Purchaser: spot market  
Operator Contact Person: Jacqueline Davis  
Phone: (281) 654-1913  
Contractor: Name: Pioneer Drilling Services  
License: 33545

Wellsite Geologist: \_\_\_\_\_  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
5/20/06 5/24/06 8/14/06  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 189-22512-00-00  
County: Stevens  
C - SW Sec. 31 Twp. 31 S. R. 35  East  West  
1250 feet from (S) N (circle one) Line of Section  
1250 feet from E (W) (circle one) Line of Section

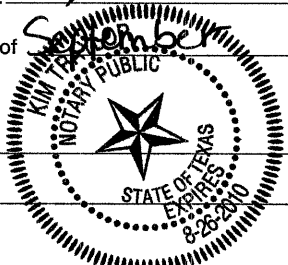
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Brownell Unit Well #: 3-31  
Field Name: Panoma  
Producing Formation: Council Grove  
Elevation: Ground: 3036' Kelly Bushing: 3047'  
Total Depth: 3222' Plug Back Total Depth: 3122'  
Amount of Surface Pipe Set and Cemented at 656.59 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) ALTIUM  
3-7-07  
Chloride content 8000 ppm Fluid volume 4290 bbls  
Dewatering method used evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: KANSAS CORPORATION COMMISSION  
Lease Name: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_  
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**WICHITA, KS**

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Jacqueline P. Davis  
Title: Support Staff ofc Assist Date: 9/25/06  
Subscribed and sworn to before me this 25 day of September, 2006.  
Notary Public: Kim Taylor  
Date Commission Expires: Aug. 26, 2010



**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  No Date: 10-5-06  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution





County: STEVENS		State: KANSAS	
<b>SLIM CEMENT MAPPING TOOL</b> <b>VARIABLE DENSITY LOG</b> <b>GAMMA RAY- CCL</b>			
County: STEVENS Field: HUGOTON Location: 1250' FWL & 1250' FSL Well: BROWNELL 3-31 Company: EXXON MOBIL	LOCATION		1250' FWL & 1250' FSL Elev.: K.B. 3047 ft G.L. 3036 ft D.F. 3046 ft
	Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3036 ft</u>
	Log Measured From: <u>KELLY BUSHING</u>		11.0 ft above Perm. Datum
	Drilling Measured From: <u>KELLY BUSHONG</u>		
API Serial No. 189-22512-0000		Section	Township      Range

Logging Date	7-Jul-2006
Run Number	1
Depth Driller	3222 ft
Schlumberger Depth	3122 ft
Bottom Log Interval	3108 ft
Top Log Interval	500 ft
Casing Fluid Type	WATER
Salinity	
Density	8.4 lbm/gal
Fluid Level	0 ft
BIT/CASING/TUBING STRING	
Bit Size	7.875 in
From	0 ft
To	3170 ft
Casing/Tubing Size	5.500 in
Weight	15.5 lbm/ft
Grade	
From	0 ft
To	3170 ft
Maximum Recorded Temperatures	
Logger On Bottom	Time
Unit Number	Location
Recorded By	TIMOTHY SAMUEL
Witnessed By	RICHARD LEWIS

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CEMENTING DATA	
Primary/Squeeze	Primary
Casing String No	
Lead Cement Type	
Volume	
Density	
Water Loss	
Additives	
Tail Cement Type	
Volume	
Density	
Water Loss	
Additives	
Expected Cement Top	
Logging Date	
Run Number	
Depth Driller	
Schlumberger Depth	
Bottom Log Interval	
Top Log Interval	
Casing Fluid Type	
Salinity	
Density	
Fluid Level	
BIT/CASING/TUBING STRING	
Bit Size	
From	
To	
Casing/Tubing Size	
Weight	
Grade	
From	
To	
Maximum Recorded Temperatures	
Logger On Bottom	Time
Unit Number	Location
Recorded By	
Witnessed By	



# Cementing Service Report

Customer <b>EXXON MOBIL CORPORATION</b>				Job Number <b>220551096</b>				
Well <b>BROWNELL UNIT 3-31</b>		Location (legal) <b>SEC 31-T31S-R35W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2006-May-25</b>		
Field <b>PANOMA GAS</b>		Formation Name/Type		Deviation	BR Size <b>7.88 in</b>	Well MD <b>3,222 ft</b>	Well TVD <b>3,222 ft</b>	
County <b>STEVENS</b>		State/Province <b>KANSAS</b>		BHP <b>psi</b>	BHST <b>110 °F</b>	BHCT <b>°F</b>	Pore Press, Gradient <b>psi/ft</b>	
Well Master: <b>0630801977</b>		API / UWI: <b>15189225120000</b>		Casing/Liner				
Rig Name <b>Pioneer #49</b>		Drilled For <b>Gas</b>	Service Via <b>Land</b>	Depth, ft <b>3212</b>	Size, in <b>5.5</b>	Weight, lb/ft <b>15.5</b>	Grade <b></b>	
Offshore Zone		Well Class <b>New</b>	Well Type <b>Development</b>	Tubing/Drill Pipe				
Drilling Fluid Type		Max. Density <b>9.4 lb/gal</b>	Plastic Vlt <b>cp</b>	Depth,	Size, in	Weight, lb/ft	Grade	
Service Line <b>Cementing</b>		Job Type <b>Cem Prod Casing</b>		Perforations/Open Hole				
Max. Allowed Tubing Pressure <b>1500 psi</b>		Max. Allowed Ann. Pressure <b>psi</b>	Wellhead Connection <b>5 1/2" H&amp;SM</b>	Top, ft	Bottom, ft	apf	No. of Shots	
Service Instructions <b>Cement 5 1/2" Production Casing 215 SKS 35:65 Poz C + 6%D20 + 2%S1 + 0.125pps D130 150 SKS Class H + 10%D44(BWOW) + 10%D53 + 0.2%D65 + 0.1%D167 + 0.2%D46 + 0.125pps D130 Displace with fresh water</b>				Total Interval <b>ft</b>	Diameter <b>in</b>	Packer Depth <b>ft</b>	Open Hole Vol <b>bbf</b>	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job		
LIR Pressure: <b>psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:		
No. Centralizers: <b>Top Plugs: 1</b>		Bottom Plugs:		Shoe Depth: <b>3212 ft</b>		Squeeze Type		
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>2006-May-25 17:30</b>		Stage Tool Type: <b>ft</b>		Tool Type:		
Arrived on Location:		Leave Location:		Stage Tool Depth: <b>ft</b>		Tail Depth: <b>ft</b>		
Collar Type:		Collar Depth: <b>3122 ft</b>		Tail Pipe Depth: <b>ft</b>		Tail Pipe Depth: <b>ft</b>		
Collar Depth: <b>3122 ft</b>		Sqs Total Vol: <b>bbf</b>		Treat Down <b>Casing</b>		Displacement <b>77.38 bbl</b>		
Tubing Vol. <b>bbf</b>		Casing Vol. <b>76.5 bbl</b>		Packer Type		Packer Depth <b>ft</b>		
Annular Vol. <b>99.25 bbl</b>		Open Hole Vol <b>bbf</b>		Annular Vol. <b>99.25 bbl</b>		Open Hole Vol <b>bbf</b>		
Date	Time	Treating Pressure	Density	CMT RATE	CMT VOL	NRD RATE	NRD VOLUME TOTAL	Message
2006-May-25	19:52	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:52	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:52							Start Job
2006-May-25	19:52	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:52							Pressure Test Lines
2006-May-25	19:52	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:53	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:53	5	8.31	0.0	0.0	0.0	0.0	
2006-May-25	19:54	82	8.30	0.0	0.0	0.0	0.0	
2006-May-25	19:54	220	8.31	2.1	0.9	0.0	0.0	
2006-May-25	19:55	78	8.31	0.0	1.5	0.0	0.0	
2006-May-25	19:55	2312	8.31	0.0	1.5	0.0	0.0	
2006-May-25	19:56	2898	8.31	0.0	1.5	0.0	0.0	
2006-May-25	19:56	50	8.31	0.0	1.5	0.0	0.0	
2006-May-25	19:56	46	8.30	0.0	1.5	0.0	0.0	
2006-May-25	19:56							Start Pumping Spacer
2006-May-25	19:57	298	8.29	3.5	1.8	0.0	0.0	
2006-May-25	19:57	339	8.31	5.6	4.4	0.0	0.0	
2006-May-25	19:58	330	8.31	5.7	7.2	0.0	0.0	
2006-May-25	19:58	394	8.31	5.7	10.1	0.0	0.0	
2006-May-25	19:59	389	8.36	5.8	12.9	0.0	0.0	
2006-May-25	19:59							Reset Total, Vol = 13.99 bbl

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Well		Fie.		Service Date		Customer		Job Number	
BROWNELL UNIT #3-31		PANOMA GAS		06145-May-25		EXXON MOBIL CORPORATION		2208551088	
Date	Time	Treating Pressure	Density	CMT RATE	CMT VOL	NRG RATE	NRG VOLUME TOTAL		Message
	24 hr clock	psi	lb/gal	btu/min	bbt	btu/min	bbt		
2006-May-25	19:59	320	8.46	5.8	14.0	0.0	0.0	0	
2006-May-25	19:59	343	8.51	5.8	0.4	0.0	0.0	0	
2006-May-25	19:59								Start Mixing Lead Slurry
2006-May-25	19:59	398	8.91	5.8	1.8	0.0	0.0	0	
2006-May-25	19:59	366	9.47	5.8	3.1	0.0	0.0	0	
2006-May-25	19:59								Reset Total, Vol = 3.08 bbl
2006-May-25	20:00	407	9.91	5.4	4.7	0.0	0.0	0	
2006-May-25	20:00	467	11.59	5.4	7.4	0.0	0.0	0	
2006-May-25	20:01	458	12.09	5.4	10.1	0.0	0.0	0	
2006-May-25	20:01	339	12.47	5.5	12.8	0.0	0.0	0	
2006-May-25	20:02	458	13.10	5.4	15.5	0.0	0.0	0	
2006-May-25	20:02	430	13.04	5.4	18.2	0.0	0.0	0	
2006-May-25	20:03	362	13.09	5.5	20.9	0.0	0.0	0	
2006-May-25	20:03	462	13.01	5.5	23.7	0.0	0.0	0	
2006-May-25	20:04	339	12.78	5.5	26.4	0.0	0.0	0	
2006-May-25	20:04	325	12.69	5.5	29.2	0.0	0.0	0	
2006-May-25	20:05	426	12.40	5.4	31.9	0.0	0.0	0	
2006-May-25	20:05	298	12.14	5.5	34.8	0.0	0.0	0	
2006-May-25	20:06	330	11.56	5.5	37.5	0.0	0.0	0	
2006-May-25	20:06	256	12.89	5.5	40.3	0.0	0.0	0	
2006-May-25	20:07	302	13.11	5.5	43.0	0.0	0.0	0	
2006-May-25	20:07	197	12.89	5.5	45.8	0.0	0.0	0	
2006-May-25	20:08	146	12.75	5.5	48.6	0.0	0.0	0	
2006-May-25	20:08	142	12.64	5.5	51.3	0.0	0.0	0	
2006-May-25	20:09	142	12.55	5.5	54.1	0.0	0.0	0	
2006-May-25	20:09	133	12.47	5.5	56.9	0.0	0.0	0	
2006-May-25	20:10	128	12.46	5.5	59.6	0.0	0.0	0	
2006-May-25	20:10	133	12.49	5.5	62.4	0.0	0.0	0	
2006-May-25	20:11	133	12.50	5.5	65.2	0.0	0.0	0	
2006-May-25	20:11	137	12.54	5.5	67.9	0.0	0.0	0	
2006-May-25	20:12	133	12.46	5.5	70.7	0.0	0.0	0	
2006-May-25	20:12	137	12.49	5.5	73.3	0.0	0.0	0	
2006-May-25	20:12								End Lead Slurry
2006-May-25	20:12	119	12.53	5.5	73.4	0.0	0.0	0	
2006-May-25	20:12								Start Mixing Tail Slurry
2006-May-25	20:12	119	12.56	5.5	73.5	0.0	0.0	0	
2006-May-25	20:12	124	12.63	5.6	73.6	0.0	0.0	0	
2006-May-25	20:12								Reset Total, Vol = 70.51 bbl
2006-May-25	20:13	165	13.81	5.6	2.7	0.0	0.0	0	
2006-May-25	20:13	192	14.53	5.5	5.5	0.0	0.0	0	
2006-May-25	20:14	215	14.97	5.5	8.2	0.0	0.0	0	
2006-May-25	20:14	211	15.21	5.5	11.0	0.0	0.0	0	
2006-May-25	20:15	251	15.10	6.1	14.0	0.0	0.0	0	
2006-May-25	20:15	220	14.98	5.7	17.0	0.0	0.0	0	
2006-May-25	20:16	220	14.88	5.7	19.8	0.0	0.0	0	
2006-May-25	20:16	220	14.82	5.7	22.7	0.0	0.0	0	
2006-May-25	20:17	211	14.86	5.7	25.5	0.0	0.0	0	
2006-May-25	20:17	215	14.85	5.7	28.4	0.0	0.0	0	
2006-May-25	20:18	211	14.84	5.7	31.2	0.0	0.0	0	
2006-May-25	20:18	220	14.86	5.7	34.1	0.0	0.0	0	
2006-May-25	20:19	96	14.28	3.7	36.6	0.0	0.0	0	
2006-May-25	20:19	92	14.36	3.7	38.5	0.0	0.0	0	
2006-May-25	20:20	119	14.30	3.6	40.3	0.0	0.0	0	
2006-May-25	20:20	0	13.74	0.0	41.0	0.0	0.0	0	

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Well		Field		Service Date		Customer		Job Number	
BROWNELL UNIT #3-31		PANOMA GAS		06145-May-25		EXXON MOBIL CORPORATION		220551006	
Date	Time	Treating Pressure psi	Density lb/gal	GRIT RATE lb/min	GRIT VOL bbl	NRD RATE barrels	NRD VOLUME TOTAL bbl	0	Message
2006-May-25	20:20								Reset Total, Vol = 40.95 bbl
2006-May-25	20:20	0	13.76	0.0	41.0	0.0	0.0	0	
2006-May-25	20:21	0	12.63	0.0	0.0	0.0	0.0	0	
2006-May-25	20:21	0	11.95	0.0	0.0	0.0	0.0	0	
2006-May-25	20:21								wash out lines
2006-May-25	20:21	0	10.36	0.0	0.0	0.0	0.0	0	
2006-May-25	20:22	0	9.48	0.0	0.0	0.0	0.0	0	
2006-May-25	20:22	0	9.22	0.0	0.0	0.0	0.0	0	
2006-May-25	20:23	82	8.64	0.0	0.0	0.0	0.0	0	
2006-May-25	20:23	96	8.70	3.6	0.0	0.0	0.0	0	
2006-May-25	20:24	201	8.63	5.6	0.0	0.0	0.0	0	
2006-May-25	20:24	220	8.61	5.6	0.0	0.0	0.0	0	
2006-May-25	20:25	148	7.25	5.6	0.0	0.0	0.0	0	
2006-May-25	20:25	197	8.32	5.7	0.0	0.0	0.0	0	
2006-May-25	20:26	-9	8.33	0.0	0.0	0.0	0.0	0	
2006-May-25	20:26	96	8.32	6.2	0.8	0.0	0.0	0	
2006-May-25	20:26	105	8.32	6.2	1.0	0.0	0.0	0	
2006-May-25	20:26								Drop Top Plug
2006-May-25	20:26								Start Displacement
2006-May-25	20:26	92	8.32	6.3	1.3	0.0	0.0	0	
2006-May-25	20:27	73	8.32	5.7	3.8	0.0	0.0	0	
2006-May-25	20:27	78	8.32	5.7	6.6	0.0	0.0	0	
2006-May-25	20:28	73	8.32	5.7	9.5	0.0	0.0	0	
2006-May-25	20:28	69	8.32	5.7	12.4	0.0	0.0	0	
2006-May-25	20:29	69	8.32	5.7	15.2	0.0	0.0	0	
2006-May-25	20:29	73	8.32	5.8	18.1	0.0	0.0	0	
2006-May-25	20:30	73	8.32	5.8	21.0	0.0	0.0	0	
2006-May-25	20:30	156	8.32	5.8	23.9	0.0	0.0	0	
2006-May-25	20:31	201	8.32	5.8	26.8	0.0	0.0	0	
2006-May-25	20:31	243	8.32	5.8	29.7	0.0	0.0	0	
2006-May-25	20:32	288	8.32	5.8	32.6	0.0	0.0	0	
2006-May-25	20:32	357	8.32	5.8	35.5	0.0	0.0	0	
2006-May-25	20:33	426	8.32	5.8	38.4	0.0	0.0	0	
2006-May-25	20:33	467	8.32	5.8	41.3	0.0	0.0	0	
2006-May-25	20:34	531	8.32	5.8	44.2	0.0	0.0	0	
2006-May-25	20:34	595	8.32	5.8	47.1	0.0	0.0	0	
2006-May-25	20:35	850	8.32	5.8	50.0	0.0	0.0	0	
2006-May-25	20:35	728	8.32	5.8	52.9	0.0	0.0	0	
2006-May-25	20:36	783	8.32	5.7	55.7	0.0	0.0	0	
2006-May-25	20:36	833	8.32	5.7	58.6	0.0	0.0	0	
2006-May-25	20:37	893	8.32	5.5	61.4	0.0	0.0	0	
2006-May-25	20:37	961	8.31	5.5	64.1	0.0	0.0	0	
2006-May-25	20:38	838	8.31	3.0	66.3	0.0	0.0	0	
2006-May-25	20:38	870	8.31	2.9	67.8	0.0	0.0	0	
2006-May-25	20:39	897	8.31	2.9	69.2	0.0	0.0	0	
2006-May-25	20:39	934	8.31	2.8	70.6	0.0	0.0	0	
2006-May-25	20:40	952	8.31	2.9	72.0	0.0	0.0	0	
2006-May-25	20:40	1520	8.32	0.0	73.2	0.0	0.0	0	
2006-May-25	20:40								End Displacement
2006-May-25	20:40	1538	8.32	0.0	73.2	0.0	0.0	0	
2006-May-25	20:40	1405	8.31	0.0	73.2	0.0	0.0	0	
2006-May-25	20:40								Bump Top Plug
2006-May-25	20:41	824	8.31	0.0	73.2	0.0	0.0	0	
2006-May-25	20:41	696	8.31	0.0	73.2	0.0	0.0	0	

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Well		Fis.		Service Date			Customer		Job Number	Message
SUNNYVIEW UNIT #2-01		11-11-01		05/25/2006			EXXON MOBIL CORPORATION		720551004	
Date	Time	Treating Pressure	Density	CMT RATE	CMT VOL	NRD RATE	NRD VOLUME TOTAL	0	0	
	24 hr clock	psi	lb/gal	lb/min	gal	lb/min	lbs			
2006-May-25	20:42	654	8.32	0.0	73.2	0.0	0.0	0		
2006-May-25	20:42	659	8.31	0.0	73.2	0.0	0.0	0		
2006-May-25	20:43	1053	8.31	1.5	73.5	0.0	0.0	0		
2006-May-25	20:43	769	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:44	687	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:44	668	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:44								bleed back	
2006-May-25	20:44	654	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:45	554	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:45	0	8.32	0.0	73.7	0.0	0.0	0		
2006-May-25	20:46	0	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:46	0	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:47	0	8.31	0.0	73.7	0.0	0.0	0		
2006-May-25	20:47								End Job	
2006-May-25	20:49	0	8.31	0.0	0.0	0.0	0.0	0		
2006-May-25	20:49	0	8.31	0.0	0.0	0.0	0.0	0		
2006-May-25	20:49								Start Job	
2006-May-25	20:49	0	8.31	0.0	0.0	0.0	0.0	0		
2006-May-25	20:49	27	8.31	0.0	0.0	0.0	0.0	0		
2006-May-25	20:50	1021	8.31	0.5	0.3	0.0	0.0	0		
2006-May-25	20:50	874	8.31	0.0	0.8	0.0	0.0	0		
2006-May-25	20:51	764	8.31	0.0	0.6	0.0	0.0	0		
2006-May-25	20:51	1250	8.31	1.4	1.0	0.0	0.0	0		
2006-May-25	20:52	824	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:52	737	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:53	691	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:53	650	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:54	604	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:54	558	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:55	522	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:55	485	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:56	458	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:56	435	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:57	412	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:57	398	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:58	385	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:58	375	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:59	366	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	20:59	362	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	21:00	362	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	21:00	357	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	21:01	0	8.31	0.0	1.1	0.0	0.0	0		
2006-May-25	21:01								End Job	

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Well BROWNELL UNIT #3-31		Field PANOMA GAS		Service Date 06145-May-25		Customer EXXON MOBIL CORPORATION		Job Number 2206551090	
Date	Time	Treating Pressure	Density	CMT RATE	CMT VOL	NRD RATE	NRD VOLUME TOTAL	Message	
	24 hr Clock	psi	lb/gal	gal/min	bbf	bbf/min	bbf		
<b>Post Job Summary</b>									
Average Pump Rates, bpm				Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
				118.5		10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
800		350	1500		Volume	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume bbl <input type="checkbox"/> Washed Thru Perfs To ft					
%	bbl	74.38 bbl	°F						
Customer or Authorized Representative Oekerman, Joe			Schlumberger Supervisor Flanagan, Patrick		<input type="checkbox"/> Circulation, psi <input checked="" type="checkbox"/> Job Completed				

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# Cementing Job Report

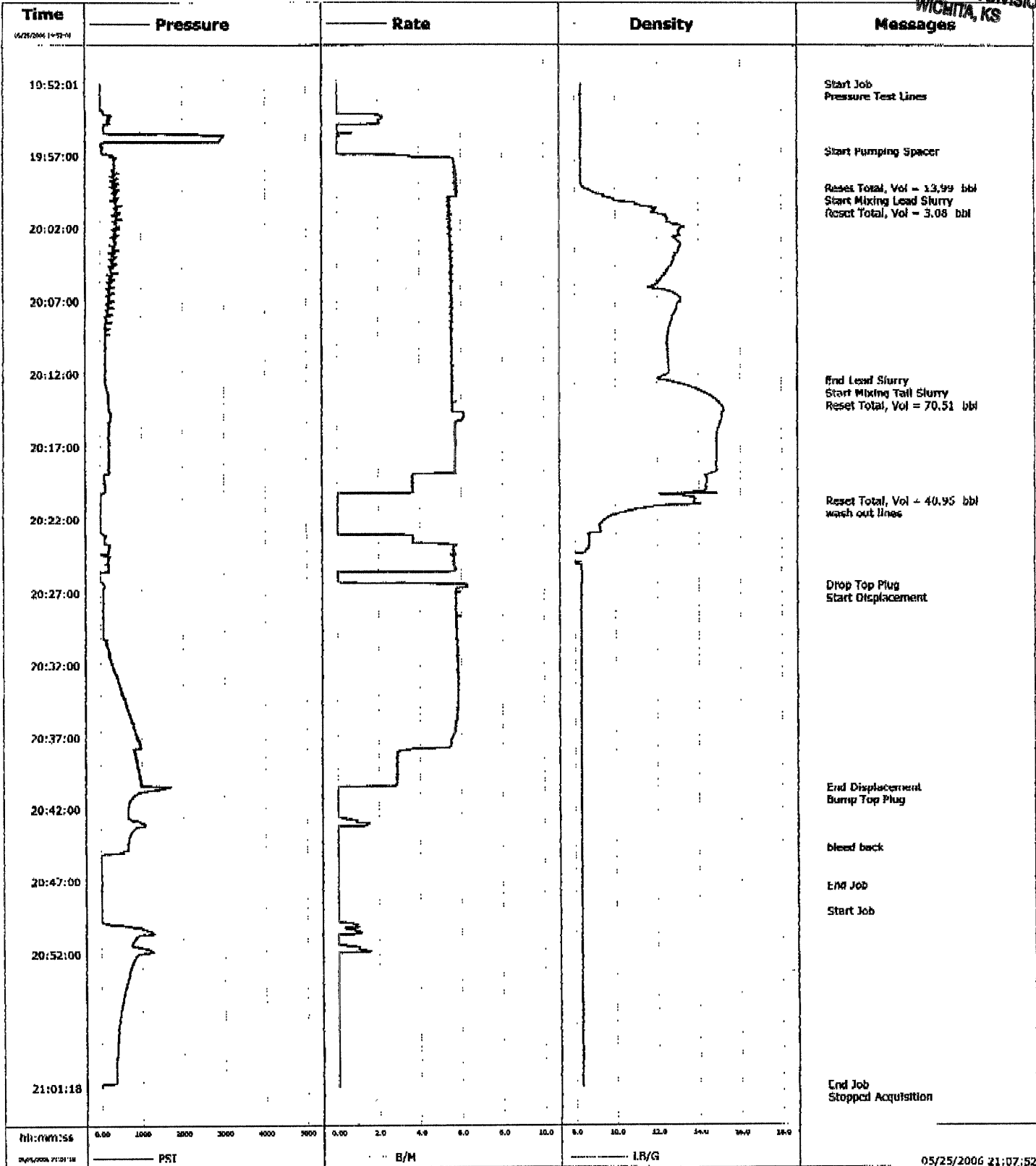
CemCAT v1.0

<b>Well</b>	Brownell Unit 3-31	<b>Client</b>	Exxon Mobil
<b>Field</b>	Panoma Gas	<b>SIR No.</b>	
<b>Engineer</b>		<b>Job Type</b>	Cement 5 1/2" Production casing
<b>Country</b>	United States	<b>Job Date</b>	05-25-2006

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hh:mm:ss

0.00 1000 2000 3000 4000 5000

0.00 2.0 4.0 6.0 8.0 10.0

8.0 10.0 12.0 14.0 16.0 18.0

PSI

B/M

LB/G

05/25/2006 21:07:52



# Cementing Service Report

Customer <b>EXXON MOBIL CORPORATION</b>	Job Number <b>2205551092</b>
--	---------------------------------

Well <b>BROWNELL UNIT 3-31</b>		Location (legal) <b>SEC 31-T31S-R35W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2006-May-21</b>			
Field <b>PANOMA GAS</b>		Formation Name/Type		Deviation <b>°</b>		Bit Size <b>12.3 in</b>	Well MD <b>665 ft</b>	Well TVD <b>665 ft</b>	
County <b>STEVENS</b>		State/Province <b>KANSAS</b>		BHP <b>psi</b>	BHST <b>86 °F</b>	BHCT <b>°F</b>	Pore Press. Gradient <b>psi/ft</b>		
Well Master: <b>0630801977</b>		API / UWI: <b>15189225120000</b>		Casing/Liner					
Rig Name <b>Pioneer #49</b>	Drilled For <b>Gas</b>	Service Via <b>Land</b>		Depth, ft <b>656.59</b>	Size, in <b>8.625</b>	Weight, lb/ft <b>32</b>	Grade	Thread	
Offshore Zone		Well Class <b>New</b>	Well Type <b>Development</b>		Tubing/Drill Pipe				
Drilling Fluid Type		Max. Density <b>lb/gal</b>	Plastic Viscosity <b>cp</b>	Depth,	Size, in	Weight, lb/ft	Grade	Thread	
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>		Perforations/Open Hole					
Max. Allowed Tubing Pressure <b>1500 psi</b>	Max. Allowed Ann. Pressure <b>psi</b>	WellHead Connection <b>8 5/8" H&amp;SM</b>		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval <b>ft</b>	
Service Instructions <b>Cement 8 5/8" Surface Casing 160 SKS 35/65 Poz:C + 6%D20 + 2%S1 + 0.125 pps D130 210 SKS Class C + 0.125 pps D130 Displace with Fresh Water Top out Cement 150 SKS</b>				Diameter <b>in</b>	Treat Down <b>Casing</b>	Displacement <b>34.5 bbl</b>	Packer Type	Packer Depth <b>ft</b>	
		Tubing Vol. <b>bbl</b>	Casing Vol. <b>40 bbl</b>	Annular Vol. <b>48 bbl</b>	OpenHole Vol <b>88 bbl</b>				
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job		
Lift Pressure: <b>200 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:	Squeeze Type		
No. Centralizers: <b>Top Plugs: 1 Bottom Plugs: 0</b>		Cement Head Type: <b>Single</b>		Stage Tool Type:	Stage Tool Depth: <b>ft</b>	Tool Type:	Tool Depth: <b>ft</b>		
Job Scheduled For: <b>2006-May-21 7:00</b>		Arrived on Location: <b>2006-May-21 7:00</b>		Leave Location: <b>2006-May-21 20:30</b>		Collar Type:	Tail Pipe Size: <b>in</b>	Tail Pipe Depth: <b>ft</b>	
		Sqz Total Vol: <b>bbl</b>		Collar Depth: <b>566.85 ft</b>					
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	Message
2006-May-21	14:09	0	0.0	0.0	8.30	0.0	0.0	0	
2006-May-21	14:09								Start Job
2006-May-21	14:10	18	0.0	0.0	8.30	0.2	0.0	0	
2006-May-21	14:10	2161	0.0	0.1	8.29	0.0	0.5	0	
2006-May-21	14:10								Pressure Test Lines
2006-May-21	14:10	2147	0.0	0.1	8.30	0.0	0.5	0	
2006-May-21	14:11	2023	0.0	0.1	8.30	0.0	0.5	0	
2006-May-21	14:11	5	0.0	0.1	8.30	0.0	0.5	0	
2006-May-21	14:12	92	5.5	1.2	8.30	5.6	2.0	0	
2006-May-21	14:12								Start Pumping Spacer
2006-May-21	14:12	92	5.5	1.4	8.30	5.6	2.2	0	
2006-May-21	14:12	82	5.5	4.2	8.29	5.7	5.1	0	
2006-May-21	14:13	64	5.6	7.0	8.31	5.8	7.9	0	
2006-May-21	14:13	64	5.6	9.8	8.31	5.8	10.8	0	
2006-May-21	14:14								End Spacer
2006-May-21	14:14	69	5.6	11.7	9.00	5.9	12.9	0	
2006-May-21	14:14	73	5.7	11.8	9.05	5.9	13.0	0	
2006-May-21	14:14								Reset Total, Vol = 11.82 bbl
2006-May-21	14:14	78	5.6	0.2	9.15	5.9	0.2	0	
2006-May-21	14:14								Start Mixing Lead Slurry
2006-May-21	14:14	82	5.6	0.8	9.46	5.9	0.8	0	
2006-May-21	14:14	101	5.6	3.6	10.73	5.9	3.7	0	

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Well		Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31		PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	14:15	114	5.7	6.4	11.62	6.0	6.7	0	
2006-May-21	14:15	128	5.7	9.3	12.24	6.0	9.7	0	
2006-May-21	14:16	133	5.8	12.2	12.69	6.0	12.7	0	
2006-May-21	14:16	137	5.8	15.0	12.88	6.0	15.7	0	
2006-May-21	14:17	119	5.8	17.9	12.63	6.0	18.7	0	
2006-May-21	14:17	124	5.8	20.8	12.88	5.9	21.6	0	
2006-May-21	14:18	119	5.8	23.7	12.70	6.0	24.7	0	
2006-May-21	14:18	114	5.8	26.7	12.57	6.0	27.6	0	
2006-May-21	14:19	82	5.8	29.6	12.47	6.1	30.7	0	
2006-May-21	14:19	119	5.8	32.5	12.50	6.3	33.7	0	
2006-May-21	14:20	124	5.9	35.4	12.61	6.1	36.7	0	
2006-May-21	14:20	119	5.9	38.3	12.68	6.1	39.7	0	
2006-May-21	14:21	124	5.9	41.3	12.82	6.1	42.8	0	
2006-May-21	14:21	133	5.9	44.2	12.73	6.1	45.9	0	
2006-May-21	14:22	128	5.9	47.2	12.64	6.1	48.9	0	
2006-May-21	14:22	124	5.9	50.1	12.44	6.0	52.0	0	
2006-May-21	14:23	133	5.9	53.1	12.72	6.2	55.1	0	
2006-May-21	14:23	128	5.9	54.1	13.17	6.1	56.2	0	
2006-May-21	14:23								End Lead Slurry
2006-May-21	14:23	137	5.9	54.3	13.24	6.2	56.4	0	
2006-May-21	14:23								Reset Total, Vol = 54.35 bbl
2006-May-21	14:23	133	5.9	0.1	13.27	6.1	0.1	0	
2006-May-21	14:23								Start Mixing Tail Slurry
2006-May-21	14:23	142	5.9	1.6	13.58	6.1	1.7	0	
2006-May-21	14:24	160	5.9	4.5	14.17	6.2	4.8	0	
2006-May-21	14:24	179	6.0	7.5	14.75	6.2	7.9	0	
2006-May-21	14:25	206	5.9	10.5	15.03	6.1	11.0	0	
2006-May-21	14:25	197	6.0	13.4	15.04	6.2	14.0	0	
2006-May-21	14:26	201	6.0	16.4	14.98	6.1	17.1	0	
2006-May-21	14:26	192	6.0	19.4	14.99	6.2	20.2	0	
2006-May-21	14:27	206	6.0	22.4	15.01	6.1	23.2	0	
2006-May-21	14:27	192	6.0	25.4	15.01	6.2	26.3	0	
2006-May-21	14:28	197	6.0	28.4	15.00	6.2	29.4	0	
2006-May-21	14:28	188	6.0	31.4	14.94	6.2	32.5	0	
2006-May-21	14:29	197	6.0	34.4	14.97	6.1	35.6	0	
2006-May-21	14:29	197	6.0	37.3	14.99	6.2	38.7	0	
2006-May-21	14:30	188	6.0	40.3	14.98	6.2	41.7	0	
2006-May-21	14:30	183	6.0	43.3	14.94	6.2	44.8	0	
2006-May-21	14:31	192	6.0	46.3	14.98	6.2	47.9	0	
2006-May-21	14:31	87	3.7	49.1	15.33	4.0	50.9	0	
2006-May-21	14:32	119	3.7	50.9	15.06	4.5	52.9	0	
2006-May-21	14:32								End Tail Slurry
2006-May-21	14:32	-14	0.0	51.7	14.87	1.0	54.1	0	
2006-May-21	14:32	-9	0.0	51.7	14.86	0.6	54.1	0	
2006-May-21	14:32								Reset Total, Vol = 51.71 bbl
2006-May-21	14:32	-9	0.0	0.0	14.86	0.2	0.0	0	
2006-May-21	14:32								Drop Top Plug
2006-May-21	14:32	-9	0.0	0.0	14.86	0.1	0.0	0	
2006-May-21	14:32								Start Displacement
2006-May-21	14:32	-9	0.0	0.0	14.86	0.0	0.0	0	
2006-May-21	14:33	-9	0.0	0.0	12.89	0.0	0.0	0	
2006-May-21	14:33	-9	0.0	0.0	10.92	0.0	0.0	0	
2006-May-21	14:34	-9	0.0	0.0	10.28	0.0	0.1	0	
2006-May-21	14:34	-9	0.0	0.0	10.18	0.0	0.1	0	

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Well		Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31		PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	14:35	-9	0.0	0.0	10.02	0.0	0.1	0	
2006-May-21	14:35	-5	0.0	0.0	9.90	0.0	0.1	0	
2006-May-21	14:36	87	5.5	0.5	9.09	5.5	1.1	0	
2006-May-21	14:36	55	5.5	3.3	9.09	5.9	4.0	0	
2006-May-21	14:37	46	5.5	6.1	8.58	5.9	7.0	0	
2006-May-21	14:37	41	5.5	8.8	8.36	5.9	9.9	0	
2006-May-21	14:38	50	5.5	11.6	8.34	5.9	12.8	0	
2006-May-21	14:38	37	5.6	14.4	8.35	5.9	15.8	0	
2006-May-21	14:39	55	5.6	17.2	8.33	5.8	18.7	0	
2006-May-21	14:39	78	5.5	20.0	8.32	5.8	21.6	0	
2006-May-21	14:40	82	5.6	22.7	8.34	5.7	24.4	0	
2006-May-21	14:40	87	5.6	25.6	8.33	5.7	27.3	0	
2006-May-21	14:41	119	5.6	28.4	8.33	6.6	30.2	0	
2006-May-21	14:41	92	2.7	30.4	8.33	2.8	32.5	0	
2006-May-21	14:42	119	2.7	31.8	8.33	2.8	33.9	0	
2006-May-21	14:42	819	0.0	33.0	8.33	1.2	35.2	0	
2006-May-21	14:43	810	0.0	33.0	8.33	0.0	35.2	0	
2006-May-21	14:43	806	0.0	33.0	8.33	0.0	35.2	0	
2006-May-21	14:44	810	0.0	33.0	8.33	0.0	35.2	0	
2006-May-21	14:45								Bump Top Plug
2006-May-21	14:45								End Displacement
2006-May-21	14:45								Reset Total, Vol = 33.03 bbl
2006-May-21	14:45	810	0.0	0.0	8.33	0.0	0.0	0	
2006-May-21	14:46	0	0.0	0.0	8.33	0.0	0.0	0	
2006-May-21	14:46								End Job
2006-May-21	18:49								Start topout Job
2006-May-21	18:49	-5	0.0	0.0	8.29	0.0	0.0	0	
2006-May-21	18:50	69	0.0	0.0	8.27	3.4	0.5	0	
2006-May-21	18:51								Start Pumping Water
2006-May-21	18:51	64	0.0	0.0	8.29	3.5	0.9	0	
2006-May-21	18:51	78	0.0	0.0	8.31	0.0	1.5	0	
2006-May-21	18:51	18	0.0	0.0	8.31	0.0	1.5	0	
2006-May-21	18:52	160	1.7	0.2	8.31	1.5	0.2	0	
2006-May-21	18:52	266	2.1	1.1	8.31	2.1	1.1	0	
2006-May-21	18:53	298	2.5	2.3	8.31	2.5	2.3	0	
2006-May-21	18:53	307	2.4	3.5	8.31	2.4	3.5	0	
2006-May-21	18:54	302	2.4	4.7	8.31	2.4	4.7	0	
2006-May-21	18:54	288	2.4	5.9	8.31	2.4	5.9	0	
2006-May-21	18:55	279	2.4	7.1	8.31	2.4	7.1	0	
2006-May-21	18:55	375	2.7	8.4	8.32	2.7	8.4	0	
2006-May-21	18:56	375	2.7	9.8	8.32	2.7	9.8	0	
2006-May-21	18:56	375	2.7	11.1	8.32	2.7	11.1	0	
2006-May-21	18:57	366	2.7	12.5	8.32	2.7	12.5	0	
2006-May-21	18:57	357	2.7	13.8	8.32	2.7	13.8	0	
2006-May-21	18:58	348	2.7	15.2	8.32	2.7	15.2	0	
2006-May-21	18:58	352	2.7	16.5	8.32	2.7	16.5	0	
2006-May-21	18:59	343	2.7	17.9	8.32	2.7	17.9	0	
2006-May-21	18:59	357	2.7	19.3	8.32	2.7	19.2	0	
2006-May-21	19:00	352	2.7	20.6	8.32	2.7	20.6	0	
2006-May-21	19:00	343	2.7	22.0	8.32	2.7	21.9	0	
2006-May-21	19:01	357	2.7	23.3	8.32	2.7	23.3	0	
2006-May-21	19:01	375	2.7	24.7	8.32	2.7	24.6	0	
2006-May-21	19:02	380	2.7	26.0	8.32	2.7	26.0	0	
2006-May-21	19:02	375	2.7	27.4	8.32	2.7	27.3	0	

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Well		Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31		PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	19:03	352	2.7	28.7	8.32	2.7	28.7	0	
2006-May-21	19:03	343	2.7	30.1	8.32	2.7	30.0	0	
2006-May-21	19:04	343	2.7	31.4	8.32	2.7	31.4	0	
2006-May-21	19:04	357	2.7	32.8	8.32	2.7	32.7	0	
2006-May-21	19:05	380	2.7	34.1	8.32	2.7	34.0	0	
2006-May-21	19:05	380	2.7	35.5	8.32	2.7	35.4	0	
2006-May-21	19:06	375	2.7	36.8	8.32	2.7	36.7	0	
2006-May-21	19:06	362	2.7	38.2	8.32	2.6	38.1	0	
2006-May-21	19:07	348	2.7	39.5	8.32	2.7	39.4	0	
2006-May-21	19:07	343	2.7	40.9	8.32	2.7	40.8	0	
2006-May-21	19:08	362	2.7	42.2	8.32	2.7	42.2	0	
2006-May-21	19:08	352	2.7	43.6	8.47	2.8	43.5	0	
2006-May-21	19:09	435	2.7	44.8	11.41	2.9	44.8	0	
2006-May-21	19:09								End Water
2006-May-21	19:09	435	2.7	44.9	11.50	2.9	44.9	0	
2006-May-21	19:09								Reset Total, Vol = 44.86 bbl
2006-May-21	19:09	421	2.7	0.0	11.58	2.9	0.0	0	
2006-May-21	19:09								Start Cement Slurry
2006-May-21	19:09	426	2.7	0.1	11.74	2.9	0.1	0	
2006-May-21	19:09	499	2.5	1.4	13.60	2.7	1.5	0	
2006-May-21	19:10	600	2.5	2.6	14.61	2.6	2.8	0	
2006-May-21	19:10	114	0.4	2.9	14.95	1.1	3.4	0	
2006-May-21	19:11	110	0.7	3.2	14.95	1.0	4.0	0	
2006-May-21	19:11	398	1.7	3.8	14.96	1.8	4.6	0	
2006-May-21	19:12	380	1.8	4.7	15.15	1.8	5.5	0	
2006-May-21	19:12	398	1.8	5.6	15.04	1.8	6.3	0	
2006-May-21	19:13	389	1.7	6.4	14.90	1.8	7.3	0	
2006-May-21	19:13	389	1.8	7.3	14.62	1.8	8.2	0	
2006-May-21	19:14	339	1.8	8.2	14.51	1.8	9.1	0	
2006-May-21	19:14	339	1.8	9.1	14.67	1.8	10.0	0	
2006-May-21	19:15	352	1.8	10.0	14.62	1.8	10.9	0	
2006-May-21	19:15	357	1.8	10.8	14.49	1.8	11.8	0	
2006-May-21	19:16	348	1.8	11.7	14.42	1.9	12.7	0	
2006-May-21	19:16	343	1.8	12.6	14.75	1.8	13.6	0	
2006-May-21	19:17	366	1.8	13.5	14.73	1.8	14.5	0	
2006-May-21	19:17	375	1.7	14.4	14.72	1.8	15.5	0	
2006-May-21	19:18	385	1.7	15.2	15.44	1.9	16.4	0	
2006-May-21	19:18	439	1.7	16.1	15.09	1.8	17.3	0	
2006-May-21	19:19	403	1.8	17.0	14.76	1.8	18.2	0	
2006-May-21	19:19	385	1.7	17.9	14.79	1.8	19.1	0	
2006-May-21	19:20	385	1.7	18.7	14.86	1.8	20.0	0	
2006-May-21	19:20	407	1.7	19.6	14.91	1.8	20.9	0	
2006-May-21	19:21	403	1.8	20.5	14.97	1.8	21.8	0	
2006-May-21	19:21	394	1.7	21.4	15.00	1.8	22.7	0	
2006-May-21	19:22	398	1.8	22.3	15.04	1.8	23.6	0	
2006-May-21	19:22	403	1.7	23.1	15.14	1.8	24.5	0	
2006-May-21	19:23	426	1.8	24.0	15.23	1.8	25.4	0	
2006-May-21	19:23	435	1.7	24.9	15.13	1.8	26.3	0	
2006-May-21	19:24	398	1.7	25.8	15.25	1.8	27.2	0	
2006-May-21	19:24	421	1.8	26.6	15.24	1.8	28.1	0	
2006-May-21	19:25	417	1.8	27.5	14.90	1.9	29.0	0	
2006-May-21	19:25	412	1.8	28.4	14.88	1.8	29.9	0	
2006-May-21	19:26	398	1.7	29.3	15.30	1.8	30.9	0	
2006-May-21	19:26	435	1.8	30.2	15.25	1.8	31.8	0	

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Well		Field		Service Date		Customer		Job Number	
BROWELL UNIT #3-31		PANOMA GAS		06141-May-21		EXXON MOBIL CORPORATION		2205551092	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	19:27	403	1.8	31.0	15.18	1.8	32.7	0	
2006-May-21	19:27	412	1.8	31.9	15.19	1.8	33.6	0	
2006-May-21	19:28	407	1.8	32.8	15.17	1.8	34.5	0	
2006-May-21	19:28	417	1.8	33.7	15.17	1.8	35.4	0	
2006-May-21	19:29	-9	0.0	34.4	14.16	0.2	36.2	0	
2006-May-21	19:29	-9	0.0	34.4	14.15	0.1	36.2	0	
2006-May-21	19:29								End Cement Slurry
2006-May-21	19:29								Reset Total, Vol = 34.39 bbl
2006-May-21	19:29	-5	0.0	34.4	14.15	0.0	36.2	0	
2006-May-21	19:29	-5	0.0	0.0	14.16	0.0	0.0	0	
2006-May-21	19:29								End Job
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5			6	143	0	10			
Treating Pressure Summary psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			800			lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	10	bbl		
%	143 bbl	34.5 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft			
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	
McBrayer, Thomas			Ahrends, Timothy						

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# Cementing Service Report

Customer <b>EXXON MOBIL CORPORATION</b>	Job Number <b>2205551092</b>
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Well <b>BROWNELL UNIT 3-31</b>		Location (legal) <b>SEC 31-T31S-R35W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2006-May-21</b>					
Field <b>PANOMA GAS</b>		Formation Name/Type		Deviation °	Bit Size <b>12.3 in</b>	Well MD <b>665 ft</b>	Well TVD <b>665 ft</b>				
County <b>STEVENS</b>		State/Province <b>KANSAS</b>		BHP psi	BHST <b>86 °F</b>	BHCT °F	Pore Press. Gradient psi/ft				
Well Master: <b>0630801977</b>		API / UWI: <b>15189225120000</b>		Casing/Liner							
Rig Name <b>Pioneer #49</b>	Drilled For <b>Gas</b>	Service Via <b>Land</b>		Depth, ft <b>656.59</b>	Size, in <b>8.625</b>	Weight, lb/ft <b>32</b>	Grade Thread				
Offshore Zone	Well Class <b>New</b>	Well Type <b>Development</b>		Tubing/Drill Pipe							
Drilling Fluid Type	Max. Density lb/gal	Plastic Viscosity cp		Depth,	Size, in	Weight, lb/ft	Grade Thread				
Service Line <b>Cementing</b>	Job Type <b>Cem Surface Casing</b>			Perforations/Open Hole							
Max. Allowed Tubing Pressure <b>1500 psi</b>	Max. Allowed Ann. Pressure psi	Wellhead Connection <b>8 5/8" H&amp;SM</b>		Top, ft	Bottom, ft	spf	No. of Shots Total Interval ft				
Service Instructions <b>Cement 8 5/8" Surface Casing 160 SKS 35/65 Poz:C + 6%D20 + 2%S1 + 0.125 pps D130 210 SKS Class C + 0.125 pps D130 Displace with Fresh Water Top out Cement 150 SKS</b>				Treat Down <b>Casing</b>		Displacement <b>34.5 bbl</b>	Packer Type Packer Depth ft				
				Tubing Vol. bbl		Casing Vol. <b>40 bbl</b>	Annular Vol. <b>48 bbl</b>	OpenHole Vol <b>88 bbl</b>			
				Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
				Lift Pressure: <b>200 psi</b>		Shoe Type:		Shoe Depth: <b>656.59 ft</b>		Squeeze Type Tool Type:	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Stage Tool Type:		Tool Depth: ft					
No. Centralizers: Top Plugs: <b>1</b> Bottom Plugs: <b>0</b>		Cement Head Type: <b>Single</b>		Stage Tool Depth: ft		Tail Pipe Size: in					
Job Scheduled For: <b>2006-May-21 7:00</b>		Arrived on Location: <b>2006-May-21 7:00</b>		Leave Location: <b>2006-May-21 20:30</b>		Collar Type: Tail Pipe Depth: ft					
Collar Depth: <b>566.85 ft</b>		Sqz Total Vol: bbl									
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	0	Message	
2006-May-21	14:09	0	0.0	0.0	8.30	0.0	0.0	0	0		
2006-May-21	14:09									Start Job	
2006-May-21	14:10	18	0.0	0.0	8.30	0.2	0.0	0	0		
2006-May-21	14:10	2161	0.0	0.1	8.29	0.0	0.5	0	0		
2006-May-21	14:10									Pressure Test Lines	
2006-May-21	14:10	2147	0.0	0.1	8.30	0.0	0.5	0	0		
2006-May-21	14:11	2023	0.0	0.1	8.30	0.0	0.5	0	0		
2006-May-21	14:11	5	0.0	0.1	8.30	0.0	0.5	0	0		
2006-May-21	14:12	92	5.5	1.2	8.30	5.6	2.0	0	0		
2006-May-21	14:12									Start Pumping Spacer	
2006-May-21	14:12	92	5.5	1.4	8.30	5.6	2.2	0	0		
2006-May-21	14:12	82	5.5	4.2	8.29	5.7	5.1	0	0		
2006-May-21	14:13	64	5.6	7.0	8.31	5.8	7.9	0	0		
2006-May-21	14:13	64	5.6	9.8	8.31	5.8	10.8	0	0		
2006-May-21	14:14									End Spacer	
2006-May-21	14:14	69	5.6	11.7	9.00	5.9	12.9	0	0		
2006-May-21	14:14	73	5.7	11.8	9.05	5.9	13.0	0	0		
2006-May-21	14:14									Reset Total, Vol = 11.82 bbl	
2006-May-21	14:14	78	5.6	0.2	9.15	5.9	0.2	0	0		
2006-May-21	14:14									Start Mixing Lead Slurry	
2006-May-21	14:14	82	5.6	0.8	9.46	5.9	0.8	0	0		
2006-May-21	14:14	101	5.6	3.6	10.73	5.9	3.7	0	0		

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Well			Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31			PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr. clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0		
2006-May-21	14:15	114	5.7	6.4	11.62	6.0	6.7	0		
2006-May-21	14:15	128	5.7	9.3	12.24	6.0	9.7	0		
2006-May-21	14:16	133	5.8	12.2	12.69	6.0	12.7	0		
2006-May-21	14:16	137	5.8	15.0	12.88	6.0	15.7	0		
2006-May-21	14:17	119	5.8	17.9	12.63	6.0	18.7	0		
2006-May-21	14:17	124	5.8	20.8	12.88	5.9	21.6	0		
2006-May-21	14:18	119	5.8	23.7	12.70	6.0	24.7	0		
2006-May-21	14:18	114	5.8	26.7	12.57	6.0	27.6	0		
2006-May-21	14:19	82	5.8	29.6	12.47	6.1	30.7	0		
2006-May-21	14:19	119	5.8	32.5	12.50	6.3	33.7	0		
2006-May-21	14:20	124	5.9	35.4	12.61	6.1	36.7	0		
2006-May-21	14:20	119	5.9	38.3	12.68	6.1	39.7	0		
2006-May-21	14:21	124	5.9	41.3	12.82	6.1	42.8	0		
2006-May-21	14:21	133	5.9	44.2	12.73	6.1	45.9	0		
2006-May-21	14:22	128	5.9	47.2	12.64	6.1	48.9	0		
2006-May-21	14:22	124	5.9	50.1	12.44	6.0	52.0	0		
2006-May-21	14:23	133	5.9	53.1	12.72	6.2	55.1	0		
2006-May-21	14:23	128	5.9	54.1	13.17	6.1	56.2	0		
2006-May-21	14:23								End Lead Slurry	
2006-May-21	14:23	137	5.9	54.3	13.24	6.2	56.4	0		
2006-May-21	14:23								Reset Total, Vol = 54.35 bbl	
2006-May-21	14:23	133	5.9	0.1	13.27	6.1	0.1	0		
2006-May-21	14:23								Start Mixing Tail Slurry	
2006-May-21	14:23	142	5.9	1.6	13.58	6.1	1.7	0		
2006-May-21	14:24	160	5.9	4.5	14.17	6.2	4.8	0		
2006-May-21	14:24	179	6.0	7.5	14.75	6.2	7.9	0		
2006-May-21	14:25	206	5.9	10.5	15.03	6.1	11.0	0		
2006-May-21	14:25	197	6.0	13.4	15.04	6.2	14.0	0		
2006-May-21	14:26	201	6.0	16.4	14.98	6.1	17.1	0		
2006-May-21	14:26	192	6.0	19.4	14.99	6.2	20.2	0		
2006-May-21	14:27	206	6.0	22.4	15.01	6.1	23.2	0		
2006-May-21	14:27	192	6.0	25.4	15.01	6.2	26.3	0		
2006-May-21	14:28	197	6.0	28.4	15.00	6.2	29.4	0		
2006-May-21	14:28	188	6.0	31.4	14.94	6.2	32.5	0		
2006-May-21	14:29	197	6.0	34.4	14.97	6.1	35.6	0		
2006-May-21	14:29	197	6.0	37.3	14.99	6.2	38.7	0		
2006-May-21	14:30	188	6.0	40.3	14.98	6.2	41.7	0		
2006-May-21	14:30	183	6.0	43.3	14.94	6.2	44.8	0		
2006-May-21	14:31	192	6.0	46.3	14.98	6.2	47.9	0		
2006-May-21	14:31	87	3.7	49.1	15.33	4.0	50.9	0		
2006-May-21	14:32	119	3.7	50.9	15.06	4.5	52.9	0		
2006-May-21	14:32								End Tail Slurry	
2006-May-21	14:32	-14	0.0	51.7	14.87	1.0	54.1	0		
2006-May-21	14:32	-9	0.0	51.7	14.86	0.6	54.1	0		
2006-May-21	14:32								Reset Total, Vol = 51.71 bbl	
2006-May-21	14:32	-9	0.0	0.0	14.86	0.2	0.0	0		
2006-May-21	14:32								Drop Top Plug	
2006-May-21	14:32	-9	0.0	0.0	14.86	0.1	0.0	0		
2006-May-21	14:32								Start Displacement	
2006-May-21	14:32	-9	0.0	0.0	14.86	0.0	0.0	0		
2006-May-21	14:33	-9	0.0	0.0	12.89	0.0	0.0	0		
2006-May-21	14:33	-9	0.0	0.0	10.92	0.0	0.0	0		
2006-May-21	14:34	-9	0.0	0.0	10.28	0.0	0.1	0		
2006-May-21	14:34	-9	0.0	0.0	10.18	0.0	0.1	0		

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Well			Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31			PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0		
2006-May-21	14:35	-9	0.0	0.0	10.02	0.0	0.1	0		
2006-May-21	14:35	-5	0.0	0.0	9.90	0.0	0.1	0		
2006-May-21	14:36	87	5.5	0.5	9.09	5.5	1.1	0		
2006-May-21	14:36	55	5.5	3.3	9.09	5.9	4.0	0		
2006-May-21	14:37	46	5.5	6.1	8.58	5.9	7.0	0		
2006-May-21	14:37	41	5.5	8.8	8.36	5.9	9.9	0		
2006-May-21	14:38	50	5.5	11.6	8.34	5.9	12.8	0		
2006-May-21	14:38	37	5.6	14.4	8.35	5.9	15.8	0		
2006-May-21	14:39	55	5.6	17.2	8.33	5.8	18.7	0		
2006-May-21	14:39	78	5.5	20.0	8.32	5.8	21.6	0		
2006-May-21	14:40	82	5.6	22.7	8.34	5.7	24.4	0		
2006-May-21	14:40	87	5.6	25.6	8.33	5.7	27.3	0		
2006-May-21	14:41	119	5.6	28.4	8.33	6.6	30.2	0		
2006-May-21	14:41	92	2.7	30.4	8.33	2.8	32.5	0		
2006-May-21	14:42	119	2.7	31.8	8.33	2.8	33.9	0		
2006-May-21	14:42	819	0.0	33.0	8.33	1.2	35.2	0		
2006-May-21	14:43	810	0.0	33.0	8.33	0.0	35.2	0		
2006-May-21	14:43	806	0.0	33.0	8.33	0.0	35.2	0		
2006-May-21	14:44	810	0.0	33.0	8.33	0.0	35.2	0		
2006-May-21	14:45								Bump Top Plug	
2006-May-21	14:45								End Displacement	
2006-May-21	14:45								Reset Total, Vol = 33.03 bbl	
2006-May-21	14:45	810	0.0	0.0	8.33	0.0	0.0	0		
2006-May-21	14:46	0	0.0	0.0	8.33	0.0	0.0	0		
2006-May-21	14:46								End Job	
2006-May-21	18:49								Start topout Job	
2006-May-21	18:49	-5	0.0	0.0	8.29	0.0	0.0	0		
2006-May-21	18:50	69	0.0	0.0	8.27	3.4	0.5	0		
2006-May-21	18:51								Start Pumping Water	
2006-May-21	18:51	64	0.0	0.0	8.29	3.5	0.9	0		
2006-May-21	18:51	78	0.0	0.0	8.31	0.0	1.5	0		
2006-May-21	18:51	18	0.0	0.0	8.31	0.0	1.5	0		
2006-May-21	18:52	160	1.7	0.2	8.31	1.5	0.2	0		
2006-May-21	18:52	266	2.1	1.1	8.31	2.1	1.1	0		
2006-May-21	18:53	298	2.5	2.3	8.31	2.5	2.3	0		
2006-May-21	18:53	307	2.4	3.5	8.31	2.4	3.5	0		
2006-May-21	18:54	302	2.4	4.7	8.31	2.4	4.7	0		
2006-May-21	18:54	288	2.4	5.9	8.31	2.4	5.9	0		
2006-May-21	18:55	279	2.4	7.1	8.31	2.4	7.1	0		
2006-May-21	18:55	375	2.7	8.4	8.32	2.7	8.4	0		
2006-May-21	18:56	375	2.7	9.8	8.32	2.7	9.8	0		
2006-May-21	18:56	375	2.7	11.1	8.32	2.7	11.1	0		
2006-May-21	18:57	366	2.7	12.5	8.32	2.7	12.5	0		
2006-May-21	18:57	357	2.7	13.8	8.32	2.7	13.8	0		
2006-May-21	18:58	348	2.7	15.2	8.32	2.7	15.2	0		
2006-May-21	18:58	352	2.7	16.5	8.32	2.7	16.5	0		
2006-May-21	18:59	343	2.7	17.9	8.32	2.7	17.9	0		
2006-May-21	18:59	357	2.7	19.3	8.32	2.7	19.2	0		
2006-May-21	19:00	352	2.7	20.6	8.32	2.7	20.6	0		
2006-May-21	19:00	343	2.7	22.0	8.32	2.7	21.9	0		
2006-May-21	19:01	357	2.7	23.3	8.32	2.7	23.3	0		
2006-May-21	19:01	375	2.7	24.7	8.32	2.7	24.6	0		
2006-May-21	19:02	380	2.7	26.0	8.32	2.7	26.0	0		
2006-May-21	19:02	375	2.7	27.4	8.32	2.7	27.3	0		

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Well		Field			Service Date		Customer		Job Number
BROWNELL UNIT #3-31		PANOMA GAS			06141-May-21		EXXON MOBIL CORPORATION		2205551092
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	19:03	352	2.7	28.7	8.32	2.7	28.7	0	
2006-May-21	19:03	343	2.7	30.1	8.32	2.7	30.0	0	
2006-May-21	19:04	343	2.7	31.4	8.32	2.7	31.4	0	
2006-May-21	19:04	357	2.7	32.8	8.32	2.7	32.7	0	
2006-May-21	19:05	380	2.7	34.1	8.32	2.7	34.0	0	
2006-May-21	19:05	380	2.7	35.5	8.32	2.7	35.4	0	
2006-May-21	19:06	375	2.7	36.8	8.32	2.7	36.7	0	
2006-May-21	19:06	362	2.7	38.2	8.32	2.6	38.1	0	
2006-May-21	19:07	348	2.7	39.5	8.32	2.7	39.4	0	
2006-May-21	19:07	343	2.7	40.9	8.32	2.7	40.8	0	
2006-May-21	19:08	362	2.7	42.2	8.32	2.7	42.2	0	
2006-May-21	19:08	352	2.7	43.6	8.47	2.8	43.5	0	
2006-May-21	19:09	435	2.7	44.8	11.41	2.9	44.8	0	
2006-May-21	19:09								End Water
2006-May-21	19:09	435	2.7	44.9	11.50	2.9	44.9	0	
2006-May-21	19:09								Reset Total, Vol = 44.86 bbl
2006-May-21	19:09	421	2.7	0.0	11.58	2.9	0.0	0	
2006-May-21	19:09								Start Cement Slurry
2006-May-21	19:09	426	2.7	0.1	11.74	2.9	0.1	0	
2006-May-21	19:09	499	2.5	1.4	13.60	2.7	1.5	0	
2006-May-21	19:10	600	2.5	2.6	14.61	2.6	2.8	0	
2006-May-21	19:10	114	0.4	2.9	14.95	1.1	3.4	0	
2006-May-21	19:11	110	0.7	3.2	14.95	1.0	4.0	0	
2006-May-21	19:11	398	1.7	3.8	14.96	1.8	4.6	0	
2006-May-21	19:12	380	1.8	4.7	15.15	1.8	5.5	0	
2006-May-21	19:12	398	1.8	5.6	15.04	1.8	6.3	0	
2006-May-21	19:13	389	1.7	6.4	14.90	1.8	7.3	0	
2006-May-21	19:13	389	1.8	7.3	14.62	1.8	8.2	0	
2006-May-21	19:14	339	1.8	8.2	14.51	1.8	9.1	0	
2006-May-21	19:14	339	1.8	9.1	14.67	1.8	10.0	0	
2006-May-21	19:15	352	1.8	10.0	14.62	1.8	10.9	0	
2006-May-21	19:15	357	1.8	10.8	14.49	1.8	11.8	0	
2006-May-21	19:16	348	1.8	11.7	14.42	1.9	12.7	0	
2006-May-21	19:16	343	1.8	12.6	14.75	1.8	13.6	0	
2006-May-21	19:17	366	1.8	13.5	14.73	1.8	14.5	0	
2006-May-21	19:17	375	1.7	14.4	14.72	1.8	15.5	0	
2006-May-21	19:18	385	1.7	15.2	15.44	1.9	16.4	0	
2006-May-21	19:18	439	1.7	16.1	15.09	1.8	17.3	0	
2006-May-21	19:19	403	1.8	17.0	14.76	1.8	18.2	0	
2006-May-21	19:19	385	1.7	17.9	14.79	1.8	19.1	0	
2006-May-21	19:20	385	1.7	18.7	14.86	1.8	20.0	0	
2006-May-21	19:20	407	1.7	19.6	14.91	1.8	20.9	0	
2006-May-21	19:21	403	1.8	20.5	14.97	1.8	21.8	0	
2006-May-21	19:21	394	1.7	21.4	15.00	1.8	22.7	0	
2006-May-21	19:22	398	1.8	22.3	15.04	1.8	23.6	0	
2006-May-21	19:22	403	1.7	23.1	15.14	1.8	24.5	0	
2006-May-21	19:23	426	1.8	24.0	15.23	1.8	25.4	0	
2006-May-21	19:23	435	1.7	24.9	15.13	1.8	26.3	0	
2006-May-21	19:24	398	1.7	25.8	15.25	1.8	27.2	0	
2006-May-21	19:24	421	1.8	26.6	15.24	1.8	28.1	0	
2006-May-21	19:25	417	1.8	27.5	14.90	1.9	29.0	0	
2006-May-21	19:25	412	1.8	28.4	14.88	1.8	29.9	0	
2006-May-21	19:26	398	1.7	29.3	15.30	1.8	30.9	0	
2006-May-21	19:26	435	1.8	30.2	15.25	1.8	31.8	0	

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Well		Field		Service Date		Customer		Job Number	
BROWNELL UNIT #3-31		PANOMA GAS		06141-May-21		EXXON MOBIL CORPORATION		2205551092	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2006-May-21	19:27	403	1.8	31.0	15.18	1.8	32.7	0	
2006-May-21	19:27	412	1.8	31.9	15.19	1.8	33.6	0	
2006-May-21	19:28	407	1.8	32.8	15.17	1.8	34.5	0	
2006-May-21	19:28	417	1.8	33.7	15.17	1.8	35.4	0	
2006-May-21	19:29	-9	0.0	34.4	14.16	0.2	36.2	0	
2006-May-21	19:29	-9	0.0	34.4	14.15	0.1	36.2	0	
2006-May-21	19:29								End Cement Slurry
2006-May-21	19:29								Reset Total, Vol = 34.39 bbl
2006-May-21	19:29	-5	0.0	34.4	14.15	0.0	36.2	0	
2006-May-21	19:29	-5	0.0	0.0	14.16	0.0	0.0	0	
2006-May-21	19:29								End Job
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5			6	143	0	10			
Treating Pressure Summary psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			800		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	10	bbl	
%	143 bbl	34.5 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	
McBrayer, Thomas			Ahrends, Timothy						

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