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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

September 1999

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form Must Be Typed

ORIGINAL

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: ONEOK
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: Marvin T. Harvey, Jr.

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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. _____
03/02/05 03/13/05 05/17/05
Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No. 15 - 175-21968-0000
County: Seward
_____ - _____ - C - NW Sec 8 Twp. 34 S. R. 33W
1331 feet from S (circle one) Line of Section
1250 feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Fitzgerald A Well #: 4
Field Name: Salley
Producing Formation: Morrow
Elevation: Ground: 2886 Kelly Bushing: 2897
Total Depth: 6620 Plug Back Total Depth: 6062
Amount of Surface Pipe Set and Cemented at 1705 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 3119
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

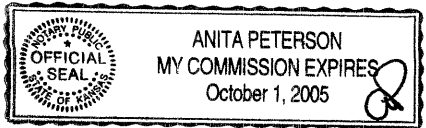
Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) *ALT I WITH 4-19-07*
Chloride content 2100 mg/l ppm Fluid volume 1650 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp, _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, 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: Vicki Carder
Title: Capital Project Date June 23, 2005
Subscribed and sworn to before me this 23rd day of June
20 05
Notary Public: Anita Peterson
Date Commission Expires: Oct 1, 2005

KCC Office Use Only
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution



✓

Side Two

Operator Name: OXY USA Inc. Lease Name: Fitzgerald A Well #: 4
 Sec. 8 Twp. 34 S. R. 33W East West County: Seward

Instructions: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2675	222
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2705	192
List All E. Logs Run:	Tracer Scan (4 runs) CBL	Wabaunsee	3523	-626
Sonic	Casing Collar Microlog	Shawnee	3924	-1027
Neutron	Geological Report	Heebner	4341	-1444
		Toronto	4360	-1463
		Lansing	4405	-1508
		(See Side Three)		

CASING RECORD <input checked="" 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
Conductor					C		
Surface	12 1/4	8 5/8	24	1705	C	605	35/65 Poz + Additives
					C	195	Class C + Additives
Production	7 7/8	4 1/2	10.5	6577	H	270	50/50 Poz + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	Est 1445-3119	H	435	Port Collar - 50/50 Poz + Additives
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
4	6555-6560	Acidize - 2500 gls 17% FE Acid	
	CIBP @ 6540 w/2 sxs cmt		
4	6091-6097, 6136-6140	Acidize - 1000 gls 17% FE Acid	
		Frac - 16133 gls WF130 70QN2, 12282# 20/40 Sand	
		Acidize - 2000 gls HCL-FE (See Side Three)	

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
05/23/05	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil BBLS	Gas Mcf	Water Bbbs	Gas-Oil Ratio	Gravity
	0	142	0		

Disposition of Gas

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18) Other (Specify) _____

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Side Three

Operator Name: OXY USA Inc. Lease Name: Fitzgerald A Well #: 4
Sec. 8 Twp. 34 S. R. 33W East West County: Seward

Name	Top	Datum
Kansas City	4854	-1957
Marmaton	5175	-2278
Cherokee	5417	-2520
Atoka	5614	-2717
Morrow	5804	-2907

Shots Per Foot	PERFORATION RECORD – Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	CIBP @ 6062		
4	6037-6047	Acidize – 1500 Gls 7.5% FE-MCA	
		Frac – 31500 gls WF130 70QN2, 50800# 20/40 Sand	

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Schlumberger

Cementing Service Report

Customer OXY USA, INC.							Job Number 2205547984								
Well Fitzgerald 'A' 4			Location (legal) Sec 8 34S 33W			Schlumberger Location Perryton, TX		Job Start 2005-Mar-28							
Field		Formation Name/Type			Deviation	Bit Size 7.88 in	Well MD 6,600 ft	Well TVD 6,600 ft							
County Seward		State/Province Kansas			BHP psi	BHST 113 °F	BHCT °F	Pore Press. Gradient psi/ft							
Well Master: 0630670233		API / UWI:			Casing/Liner										
Rig Name Workover unit		Drilled For Gas		Service Via		Depth, ft 6600	Size, in 4.5	Weight, lb/ft 10.5	Grade 	Thread 					
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe									
Drilling Fluid Type		Max. Density lb/gal		Plastic Vi: cp		Depth, 3100	Size, in 2.375	Weight, lb/ft 4.7	Grade 	Thread 					
Service Line Cementing		Job Type Cem Prod Casing				Perforations/Open Hole									
Max. Allowed Tubing Pressure 1500 psi		Max. Allowed Ann. Pressure psi		WellHead Connection 2 3/8 & 2" REG		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft					
Service Instructions CEMENT 4½" PORT COLLAR : 20 BBLs CW100 435 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPS D42+5 PPS D53+0.6 %D112+ 0.25 %D65 + 0.25%D46 DISPLACE W/FRESH WATER						Diameter in	Treat Down Tubing	Displacement 12.1 bbl	Packer Type -String Retrieve	Packer Depth 3100 ft					
						Tubing Vol. 12.1 bbl	Casing Vol. 49.6 bbl	Annular Vol. 32.8 bbl	OpenHole Vol bbl						
						Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job		
						Lift Pressure: psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:		Squeeze Type	
No. Centralizers:		Top Plugs:		Bottom Plugs:		Shoe Depth: ft		Tool Type:							
Cement Head Type:		Stage Tool Type: port collar		Stage Tool Depth: 3121.1 ft		Tool Depth: ft		Tail Pipe Size: in							
Job Scheduled For:		Arrived on Location: 2005-Mar-28 8:00		Leave Location: 2005-Mar-28 13:00		Collar Type:		Tail Pipe Depth: ft		Collar Depth: ft					
Sqz Total Vol: bbl															
Message															
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	0	0					
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	0	0					
2005-Mar-28	8:58	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	8:58									Start Job					
2005-Mar-28	8:58	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	8:58	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	8:58									Pressure Test Lines					
2005-Mar-28	8:59	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	8:59									pressure test tool					
2005-Mar-28	8:59	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	8:59	0	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:00	705	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:00	3877	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:01	3575	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:01	5	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:02									Reset Total, Vol = 0.10 bbl					
2005-Mar-28	9:02	5	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:02	137	8.33	1.3	0	0	0	0	0						
2005-Mar-28	9:02	810	8.33	0.3	0	0	0	0	0						
2005-Mar-28	9:03	1117	8.33	0.3	0	0	0	0	0						
2005-Mar-28	9:03	1346	8.33	0.2	0	0	0	0	0						
2005-Mar-28	9:04	1428	8.33	0.0	0	0	0	0	0						
2005-Mar-28	9:04	1593	8.33	0.2	0	0	0	0	0						
2005-Mar-28	9:05	1790	8.33	0.0	0	0	0	0	0						

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205647984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	
2005-Mar-28	9:05	1753	8.33	0.0	0	0	0	0	
2005-Mar-28	9:05								Reset Total, Vol = 0.94 bbl
2005-Mar-28	9:05	1781	8.33	0.0	0	0	0	0	
2005-Mar-28	9:06	1804	8.33	0.0	0	0	0	0	
2005-Mar-28	9:06	1799	8.33	0.0	0	0	0	0	
2005-Mar-28	9:07	1794	8.33	0.0	0	0	0	0	
2005-Mar-28	9:07	1785	8.33	0.0	0	0	0	0	
2005-Mar-28	9:08	687	8.33	0.0	0	0	0	0	
2005-Mar-28	9:08	14	8.33	0.0	0	0	0	0	
2005-Mar-28	9:09	14	8.33	0.0	0	0	0	0	
2005-Mar-28	9:09	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:10	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:10	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:11	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:11	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:13	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:13	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:14	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:14	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:15	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:15	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:16	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:16	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:17	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:17	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:18	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:18	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:19	18	8.33	0.0	0	0	0	0	
2005-Mar-28	9:19								Stopped Acquisition
2005-Mar-28	9:44								Started Acquisition
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12								Start Pumping Water
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12								Start Pumping Spacer
2005-Mar-28	10:12								End Spacer
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12								Start Pumping Wash
2005-Mar-28	10:12								Start Pumping Spacer
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:12								Start Cement Slurry
2005-Mar-28	10:12	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:13	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:13	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:14	18	8.33	0.0	0	0	0	0	
2005-Mar-28	10:14	27	8.33	0.0	0	0	0	0	
2005-Mar-28	10:15	156	8.32	0.0	0	0	0	0	
2005-Mar-28	10:15	215	8.32	0.0	0	0	0	0	
2005-Mar-28	10:16	142	8.32	0.0	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205547984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbf/min	0	0	0	0	
2005-Mar-28	10:16	124	8.32	0.0	0	0	0	0	
2005-Mar-28	10:17	124	8.32	0.0	0	0	0	0	
2005-Mar-28	10:17	243	8.32	1.1	0	0	0	0	
2005-Mar-28	10:18	435	8.32	2.1	0	0	0	0	
2005-Mar-28	10:18	549	8.32	2.5	0	0	0	0	
2005-Mar-28	10:19	563	8.32	2.5	0	0	0	0	
2005-Mar-28	10:19	581	8.33	2.5	0	0	0	0	
2005-Mar-28	10:20	554	8.33	2.5	0	0	0	0	
2005-Mar-28	10:20	549	8.33	2.5	0	0	0	0	
2005-Mar-28	10:21	545	8.33	2.5	0	0	0	0	
2005-Mar-28	10:21	737	8.33	3.0	0	0	0	0	
2005-Mar-28	10:22	943	8.33	3.5	0	0	0	0	
2005-Mar-28	10:22	1089	8.32	3.9	0	0	0	0	
2005-Mar-28	10:23	1076	8.32	3.9	0	0	0	0	
2005-Mar-28	10:23	1067	8.32	3.9	0	0	0	0	
2005-Mar-28	10:24	1039	8.32	3.9	0	0	0	0	
2005-Mar-28	10:24	1025	8.32	3.9	0	0	0	0	
2005-Mar-28	10:25	1012	8.32	3.9	0	0	0	0	
2005-Mar-28	10:25	1016	8.32	3.9	0	0	0	0	
2005-Mar-28	10:26	1025	8.31	3.9	0	0	0	0	
2005-Mar-28	10:26	989	8.27	3.9	0	0	0	0	
2005-Mar-28	10:27	998	8.28	3.9	0	0	0	0	
2005-Mar-28	10:27	975	8.25	3.9	0	0	0	0	
2005-Mar-28	10:28	970	8.24	3.9	0	0	0	0	
2005-Mar-28	10:28	851	10.44	3.9	0	0	0	0	
2005-Mar-28	10:28	856	11.02	3.9	0	0	0	0	
2005-Mar-28	10:28								Reset Total, Vol = 37.68 bbl
2005-Mar-28	10:28	815	11.11	3.9	0	0	0	0	
2005-Mar-28	10:28								End Water
2005-Mar-28	10:29	806	11.21	3.9	0	0	0	0	
2005-Mar-28	10:29								End Wash
2005-Mar-28	10:29	829	11.26	3.9	0	0	0	0	
2005-Mar-28	10:29								End Spacer
2005-Mar-28	10:29	792	11.87	3.9	0	0	0	0	
2005-Mar-28	10:29	829	13.01	3.9	0	0	0	0	
2005-Mar-28	10:30	943	13.72	3.8	0	0	0	0	
2005-Mar-28	10:30	998	13.97	3.8	0	0	0	0	
2005-Mar-28	10:31	1035	14.22	3.7	0	0	0	0	
2005-Mar-28	10:31	1108	14.39	3.7	0	0	0	0	
2005-Mar-28	10:32	1305	14.47	3.6	0	0	0	0	
2005-Mar-28	10:32	1387	14.49	3.4	0	0	0	0	
2005-Mar-28	10:33	732	14.43	2.5	0	0	0	0	
2005-Mar-28	10:33	577	13.35	2.5	0	0	0	0	
2005-Mar-28	10:34	110	12.26	2.7	0	0	0	0	
2005-Mar-28	10:34	105	11.79	3.2	0	0	0	0	
2005-Mar-28	10:35	114	11.40	3.2	0	0	0	0	
2005-Mar-28	10:35	124	12.82	3.1	0	0	0	0	
2005-Mar-28	10:36	114	12.36	4.2	0	0	0	0	
2005-Mar-28	10:36	119	12.74	4.2	0	0	0	0	
2005-Mar-28	10:37	119	13.69	4.2	0	0	0	0	
2005-Mar-28	10:37	110	12.65	4.2	0	0	0	0	
2005-Mar-28	10:38	110	12.14	4.2	0	0	0	0	
2005-Mar-28	10:38	119	13.32	4.2	0	0	0	0	
2005-Mar-28	10:39	114	13.29	4.2	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205547984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	
2005-Mar-28	10:39	110	12.71	4.2	0	0	0	0	
2005-Mar-28	10:40	119	13.62	4.2	0	0	0	0	
2005-Mar-28	10:40	119	14.49	4.2	0	0	0	0	
2005-Mar-28	10:41	119	14.69	4.2	0	0	0	0	
2005-Mar-28	10:41	119	13.61	4.2	0	0	0	0	
2005-Mar-28	10:42	110	12.58	4.2	0	0	0	0	
2005-Mar-28	10:42	105	12.07	4.2	0	0	0	0	
2005-Mar-28	10:43	119	13.43	4.2	0	0	0	0	
2005-Mar-28	10:43	119	14.21	4.2	0	0	0	0	
2005-Mar-28	10:44	124	14.47	4.2	0	0	0	0	
2005-Mar-28	10:44	119	13.97	4.2	0	0	0	0	
2005-Mar-28	10:45	114	12.96	4.2	0	0	0	0	
2005-Mar-28	10:45	110	12.23	4.2	0	0	0	0	
2005-Mar-28	10:46	114	13.40	4.2	0	0	0	0	
2005-Mar-28	10:46	119	14.20	4.2	0	0	0	0	
2005-Mar-28	10:47	119	14.56	4.2	0	0	0	0	
2005-Mar-28	10:47	124	14.54	4.2	0	0	0	0	
2005-Mar-28	10:48	119	13.82	4.2	0	0	0	0	
2005-Mar-28	10:48	119	13.74	4.2	0	0	0	0	
2005-Mar-28	10:49	119	13.66	4.2	0	0	0	0	
2005-Mar-28	10:49	119	13.70	4.2	0	0	0	0	
2005-Mar-28	10:50	119	13.98	4.2	0	0	0	0	
2005-Mar-28	10:50	124	13.98	4.2	0	0	0	0	
2005-Mar-28	10:51	124	13.53	3.7	0	0	0	0	
2005-Mar-28	10:51	110	12.59	3.7	0	0	0	0	
2005-Mar-28	10:52	114	11.86	5.4	0	0	0	0	
2005-Mar-28	10:52	101	11.16	4.2	0	0	0	0	
2005-Mar-28	10:53	124	12.91	4.2	0	0	0	0	
2005-Mar-28	10:53	133	14.38	4.2	0	0	0	0	
2005-Mar-28	10:54	124	14.34	4.2	0	0	0	0	
2005-Mar-28	10:54	119	13.36	4.2	0	0	0	0	
2005-Mar-28	10:55	119	13.04	4.2	0	0	0	0	
2005-Mar-28	10:55	124	13.55	4.2	0	0	0	0	
2005-Mar-28	10:56	124	14.28	4.2	0	0	0	0	
2005-Mar-28	10:56	119	13.82	4.2	0	0	0	0	
2005-Mar-28	10:57	114	12.97	4.2	0	0	0	0	
2005-Mar-28	10:57	119	12.60	4.2	0	0	0	0	
2005-Mar-28	10:58	119	13.57	4.2	0	0	0	0	
2005-Mar-28	10:58	119	13.90	4.2	0	0	0	0	
2005-Mar-28	10:59	119	13.77	4.2	0	0	0	0	
2005-Mar-28	10:59	119	13.72	4.2	0	0	0	0	
2005-Mar-28	11:00	119	13.59	4.2	0	0	0	0	
2005-Mar-28	11:00	114	13.21	4.2	0	0	0	0	
2005-Mar-28	11:01	119	13.27	4.2	0	0	0	0	
2005-Mar-28	11:01	119	13.54	4.2	0	0	0	0	
2005-Mar-28	11:02	119	13.70	4.2	0	0	0	0	
2005-Mar-28	11:02	119	13.66	4.2	0	0	0	0	
2005-Mar-28	11:03	119	13.63	4.2	0	0	0	0	
2005-Mar-28	11:03	119	13.58	1.7	0	0	0	0	
2005-Mar-28	11:04	124	13.56	1.7	0	0	0	0	
2005-Mar-28	11:04	124	13.72	1.7	0	0	0	0	
2005-Mar-28	11:05	124	13.92	1.7	0	0	0	0	
2005-Mar-28	11:05	128	13.92	1.7	0	0	0	0	
2005-Mar-28	11:06	124	13.82	1.7	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205547984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	
2005-Mar-28	11:06	114	12.87	1.7	0	0	0	0	
2005-Mar-28	11:07	124	12.82	1.7	0	0	0	0	
2005-Mar-28	11:07	128	13.14	1.7	0	0	0	0	
2005-Mar-28	11:08	128	13.60	1.7	0	0	0	0	
2005-Mar-28	11:08	128	13.96	1.7	0	0	0	0	
2005-Mar-28	11:09	128	13.94	1.7	0	0	0	0	
2005-Mar-28	11:09	124	13.53	1.7	0	0	0	0	
2005-Mar-28	11:10	119	12.79	1.7	0	0	0	0	
2005-Mar-28	11:10	119	12.97	1.7	0	0	0	0	
2005-Mar-28	11:11	124	13.54	1.7	0	0	0	0	
2005-Mar-28	11:11	124	13.69	1.7	0	0	0	0	
2005-Mar-28	11:12	124	13.75	1.7	0	0	0	0	
2005-Mar-28	11:12	128	13.77	1.7	0	0	0	0	
2005-Mar-28	11:13	128	13.70	1.7	0	0	0	0	
2005-Mar-28	11:13	128	13.73	1.7	0	0	0	0	
2005-Mar-28	11:14	124	13.69	1.7	0	0	0	0	
2005-Mar-28	11:14	119	13.50	1.7	0	0	0	0	
2005-Mar-28	11:15	119	13.27	1.7	0	0	0	0	
2005-Mar-28	11:15	114	12.74	1.7	0	0	0	0	
2005-Mar-28	11:16	114	12.46	1.7	0	0	0	0	
2005-Mar-28	11:16	119	12.32	1.7	0	0	0	0	
2005-Mar-28	11:17	119	12.28	1.7	0	0	0	0	
2005-Mar-28	11:17	128	12.43	1.7	0	0	0	0	
2005-Mar-28	11:18	137	14.43	1.7	0	0	0	0	
2005-Mar-28	11:18	137	14.21	1.7	0	0	0	0	
2005-Mar-28	11:19	133	13.96	1.7	0	0	0	0	
2005-Mar-28	11:19	119	13.62	1.7	0	0	0	0	
2005-Mar-28	11:20	128	13.53	1.7	0	0	0	0	
2005-Mar-28	11:20	133	13.42	1.7	0	0	0	0	
2005-Mar-28	11:21	137	13.68	1.7	0	0	0	0	
2005-Mar-28	11:21	137	14.00	1.7	0	0	0	0	
2005-Mar-28	11:22	133	13.88	1.7	0	0	0	0	
2005-Mar-28	11:22	133	13.31	1.7	0	0	0	0	
2005-Mar-28	11:23	133	12.82	1.7	0	0	0	0	
2005-Mar-28	11:23	137	13.43	1.7	0	0	0	0	
2005-Mar-28	11:24	137	13.98	1.7	0	0	0	0	
2005-Mar-28	11:24	133	13.92	1.7	0	0	0	0	
2005-Mar-28	11:25	128	12.95	1.7	0	0	0	0	
2005-Mar-28	11:25	133	12.95	1.7	0	0	0	0	
2005-Mar-28	11:26	137	13.56	1.7	0	0	0	0	
2005-Mar-28	11:26	137	14.03	1.7	0	0	0	0	
2005-Mar-28	11:27	142	14.44	1.7	0	0	0	0	
2005-Mar-28	11:27	137	14.52	1.7	0	0	0	0	
2005-Mar-28	11:28	137	13.85	1.7	0	0	0	0	
2005-Mar-28	11:28	142	13.86	1.7	0	0	0	0	
2005-Mar-28	11:29	142	14.23	1.7	0	0	0	0	
2005-Mar-28	11:29	137	14.11	1.7	0	0	0	0	
2005-Mar-28	11:30	151	14.02	1.7	0	0	0	0	
2005-Mar-28	11:30	151	14.03	1.7	0	0	0	0	
2005-Mar-28	11:31	151	14.03	1.7	0	0	0	0	
2005-Mar-28	11:31								Start Displacement
2005-Mar-28	11:31	151	14.03	1.7	0	0	0	0	
2005-Mar-28	11:31	119	14.01	1.7	0	0	0	0	
2005-Mar-28	11:31								End Cement Slurry

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205547984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	
2005-Mar-28	11:31	114	13.40	1.7	0	0	0	0	
2005-Mar-28	11:31								Reset Total, Vol = 120.72 bbl
2005-Mar-28	11:32	105	8.88	1.7	0	0	0	0	
2005-Mar-28	11:32								Reset Total, Vol = 0.43 bbl
2005-Mar-28	11:32	110	8.45	1.7	0	0	0	0	
2005-Mar-28	11:32	110	8.32	1.7	0	0	0	0	
2005-Mar-28	11:33	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:33	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:34	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:34	87	8.31	1.7	0	0	0	0	
2005-Mar-28	11:35	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:35	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:36	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:36	110	8.31	1.7	0	0	0	0	
2005-Mar-28	11:37	110	8.31	2.7	0	0	0	0	
2005-Mar-28	11:37	279	8.25	2.7	0	0	0	0	
2005-Mar-28	11:38	169	8.43	1.7	0	0	0	0	
2005-Mar-28	11:38	522	8.35	1.7	0	0	0	0	
2005-Mar-28	11:39	275	8.33	1.7	0	0	0	0	
2005-Mar-28	11:39	449	8.32	1.7	0	0	0	0	
2005-Mar-28	11:40	421	8.31	1.7	0	0	0	0	
2005-Mar-28	11:40	430	8.31	1.7	0	0	0	0	
2005-Mar-28	11:41	385	8.31	1.7	0	0	0	0	
2005-Mar-28	11:41	609	8.31	1.7	0	0	0	0	
2005-Mar-28	11:42	389	8.31	1.7	0	0	0	0	
2005-Mar-28	11:42	801	8.31	1.7	0	0	0	0	
2005-Mar-28	11:43	302	8.31	1.7	0	0	0	0	
2005-Mar-28	11:43	320	8.31	1.1	0	0	0	0	
2005-Mar-28	11:44	476	8.32	0.0	0	0	0	0	
2005-Mar-28	11:44	485	8.32	0.0	0	0	0	0	
2005-Mar-28	11:45	485	8.32	0.0	0	0	0	0	
2005-Mar-28	11:45								End Displacement
2005-Mar-28	11:45	490	8.32	0.0	0	0	0	0	
2005-Mar-28	11:45								Reset Total, Vol = 20.62 bbl
2005-Mar-28	11:45	490	8.32	0.0	0	0	0	0	
2005-Mar-28	11:45	494	8.32	0.0	0	0	0	0	
2005-Mar-28	11:46	645	8.31	0.8	0	0	0	0	
2005-Mar-28	11:46	1112	8.31	0.5	0	0	0	0	
2005-Mar-28	11:47	1739	8.31	0.8	0	0	0	0	
2005-Mar-28	11:47	2211	8.31	0.0	0	0	0	0	
2005-Mar-28	11:48	2197	8.31	0.0	0	0	0	0	
2005-Mar-28	11:48	60	8.32	0.0	0	0	0	0	
2005-Mar-28	11:49	27	8.32	0.0	0	0	0	0	
2005-Mar-28	11:49	32	8.32	0.0	0	0	0	0	
2005-Mar-28	11:50	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:50	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:51	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:51	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:52	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:52	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:53	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:53	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:54	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:54	32	8.31	0.0	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.		2205547984
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0	
2005-Mar-28	11:55	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:55	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:56	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:56	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:57	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:57	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:58	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:58								Reset Total, Vol = 0.93 bbl
2005-Mar-28	11:58	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:58	32	8.31	0.0	0	0	0	0	
2005-Mar-28	11:58	37	8.31	0.0	0	0	0	0	
2005-Mar-28	11:58								reverse out
2005-Mar-28	11:59	96	8.31	0.0	0	0	0	0	
2005-Mar-28	11:59	211	8.31	2.3	0	0	0	0	
2005-Mar-28	12:00	371	8.31	2.7	0	0	0	0	
2005-Mar-28	12:00	449	8.31	2.7	0	0	0	0	
2005-Mar-28	12:01	352	8.31	1.7	0	0	0	0	
2005-Mar-28	12:01	261	8.31	1.7	0	0	0	0	
2005-Mar-28	12:02	169	8.31	0.0	0	0	0	0	
2005-Mar-28	12:02	220	8.31	0.0	0	0	0	0	
2005-Mar-28	12:03	174	8.32	0.0	0	0	0	0	
2005-Mar-28	12:03	252	8.31	0.0	0	0	0	0	
2005-Mar-28	12:04	220	8.31	0.0	0	0	0	0	
2005-Mar-28	12:04	215	8.31	0.0	0	0	0	0	
2005-Mar-28	12:05	211	8.32	0.0	0	0	0	0	
2005-Mar-28	12:05	206	8.32	0.0	0	0	0	0	
2005-Mar-28	12:06	206	8.31	0.0	0	0	0	0	
2005-Mar-28	12:06	206	8.31	0.0	0	0	0	0	
2005-Mar-28	12:07	206	8.31	0.0	0	0	0	0	
2005-Mar-28	12:07	206	8.31	0.0	0	0	0	0	
2005-Mar-28	12:08	206	8.32	0.0	0	0	0	0	
2005-Mar-28	12:08	206	8.32	0.0	0	0	0	0	
2005-Mar-28	12:09	224	8.31	0.0	0	0	0	0	
2005-Mar-28	12:09	540	8.32	0.0	0	0	0	0	
2005-Mar-28	12:10	1076	8.32	0.0	0	0	0	0	
2005-Mar-28	12:10	1094	8.32	3.9	0	0	0	0	
2005-Mar-28	12:11	1094	8.32	3.9	0	0	0	0	
2005-Mar-28	12:11	911	8.32	3.9	0	0	0	0	
2005-Mar-28	12:12	764	8.32	3.9	0	0	0	0	
2005-Mar-28	12:12	742	8.32	3.9	0	0	0	0	
2005-Mar-28	12:13	755	8.32	3.9	0	0	0	0	
2005-Mar-28	12:13	742	8.32	3.9	0	0	0	0	
2005-Mar-28	12:14	700	8.32	3.9	0	0	0	0	
2005-Mar-28	12:14	700	8.31	3.9	0	0	0	0	
2005-Mar-28	12:15	-5	8.31	0.0	0	0	0	0	
2005-Mar-28	12:15	23	8.31	0.0	0	0	0	0	
2005-Mar-28	12:16								Reset Total, Vol = 23.37 bbl
2005-Mar-28	12:16	27	8.31	0.0	0	0	0	0	
2005-Mar-28	12:16								End Job
2005-Mar-28	12:16	27	8.31	0.0	0	0	0	0	

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Well		Field			Service Date		Customer			Job Number	
Fitzgerald 'A' #4					0587-Mar-28		OXY USA, INC.			2205547984	
Date	Time	CMT TREAT PRES	CMT DENS	CMT RATE	0	0	0	0	Message		
	24 hr clock	psi	lb/gal	bbl/min	0	0	0	0			
Post Job Summary											
Average Pump Rates, bpm				Volume of Fluid Injected, bbl							
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2				
2	0	0	4	120	0	30					
Treating Pressure Summary, psi						Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume			Density			
2000		700			bbl			lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface?		Volume		bbl			
%	120 bbl	11 bbl	°F	<input type="checkbox"/> Washed Thru Perfs		To	ft				
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost			<input checked="" type="checkbox"/> Job Completed		
Willimon, Wes			Gonzales, Paul								

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Cementing Service Report

Customer OXY USA, INC.						Job Number 2205547753					
Well Fitzgerald 'A' 4			Location (legal) Sec 8 34S 33W			Schlumberger Location Perryton, TX			Job Start 2005-Mar-14		
Field		Formation Name/Type		Deviation		Bit Size		Well MD		Well TVD	
						7.88 in		6,600 ft		6,600 ft	
County Seward		State/Province Kansas		BHP psi		BHST 146 °F		BHCT °F		Pore Press. Gradient psi/ft	
Well Master: 0630670233		API / UWI:		Casing/Liner							
Rig Name MURFIN 20		Drilled For Gas		Service Via Land		Depth, ft 6600		Size, in 4.5		Weight, lb/ft 10.5	
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe					
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Depth,		Size, in		Weight, lb/ft	
Service Line Cementing		Job Type Cem Prod Casing		Perforations/Open Hole							
Max. Allowed Tubing Pressure 1500 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 4 1/2" H&SM		Top, ft		Bottom, ft		spf	
Service Instructions CEMENT PROD 4 1/2" CASING: 20 BBLs CW100 270 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPS D42+5 PPS D53+0.25 %D112+ 0.25 %D65 + 0.25%D46 (Plus 25 sks Rat/Mouse) DISPLACE W/FRESH WATER										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 104.6 bbl		Packer Type	
						Tubing Vol. bbl		Casing Vol. 105.28 bbl		Annular Vol. 268.8 bbl	
										Packer Depth ft	
										Open Hole Vol 398.52 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure: 550 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide		Squeeze Type			
No. Centralizers: 12		Top Plugs: 1		Bottom Plugs: 1		Shoe Depth: 6621.51 ft		Tool Type:			
Cement Head Type: Single		Job Scheduled For: 2005-Mar-14 4:30		Arrived on Location: 2005-Mar-14 4:30		Leave Location: 2005-Mar-14 12:45		Stage Tool Type: PORT COLL		Tool Depth: ft	
								Stage Tool Depth: 3121.1 ft		Tail Pipe Size: in	
								Collar Type: Auto-Fill		Tail Pipe Depth: ft	
								Collar Depth: 6577.71 ft		Sqz Total Vol: bbl	
Date	Time	CMT RATE 24 hr. clock bbl/min	CMT TREAT PRES psi	CMT STG VOL bbl	CMT DENS lb/gal	0	0	0	Message		
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:53								Start Job		
2005-Mar-14	9:53								Pressure Test Lines		
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0	Start Pumping Wash		
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0	Start Pumping Spacer		
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0	Start Mixing Scav Slurry		
2005-Mar-14	9:53	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:54	0.0	0	0.0	8.28	0	0	0			
2005-Mar-14	9:54	0.0	0	0.0	8.28	0	0	0			
2005-Mar-14	9:55	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:55	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:56	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:56	0.0	0	0.0	8.28	0	0	0			
2005-Mar-14	9:57	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:57	0.0	0	0.0	8.28	0	0	0			
2005-Mar-14	9:58	0.0	0	0.0	8.29	0	0	0			
2005-Mar-14	9:58	0.0	0	0.0	8.29	0	0	0			

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Well		Field				Service Date		Customer		Job Number
Fitzgerald 'A' #4						0573-Mar-14		OXY USA, INC.		2205547753
Date	Time	CMT RATE	CMT TREAT PRES	CMT STG VOL	CMT DENS	0	0	0	Message	
	24 hr clock	bbbl/min	psi	bbbl	lb/gal	0	0	0		
2005-Mar-14	9:59	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	9:59	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:00	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:00	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:01	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:01	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:02	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:02	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:03	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:03	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:04	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:04	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:05	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:05	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:06	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:06	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:07	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:07	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:08	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:08	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:09	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:09	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:10	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:10	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:11	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:11	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:12	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:12	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:13	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:13	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:14	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:14	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:15	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:15	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:16	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:16	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:17	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:17	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:18	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:18	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:19	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:19	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:20	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:20	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:21	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:21	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:22	0.0	0	0.0	8.29	0	0	0		
2005-Mar-14	10:22	1.5	87	0.5	8.04	0	0	0		
2005-Mar-14	10:23	0.0	1836	0.7	8.32	0	0	0		
2005-Mar-14	10:23	0.0	55	0.7	8.34	0	0	0		
2005-Mar-14	10:24	0.0	18	0.7	8.20	0	0	0		
2005-Mar-14	10:24	0.0	14	0.7	8.24	0	0	0		
2005-Mar-14	10:25	0.0	14	0.7	8.22	0	0	0		
2005-Mar-14	10:25	1.3	142	1.1	8.33	0	0	0		

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Well		Field				Service Date		Customer		Job Number	
Fitzgerald 'A' #4						0573-Mar-14		OXY USA, INC.		2205547763	
Date	Time	CMT RATE	CMT TREAT PRES	CMT STG VOL	CMT DENS	0	0	0	Message		
	24 hr clock	bbbl/min	psi	bbbl	lb/gal	0	0	0			
2005-Mar-14	10:26	2.5	243	2.0	8.33	0	0	0			
2005-Mar-14	10:26	2.5	197	3.3	8.33	0	0	0			
2005-Mar-14	10:27	3.9	357	4.5	8.34	0	0	0			
2005-Mar-14	10:27	3.9	256	6.5	8.34	0	0	0			
2005-Mar-14	10:28	3.9	270	8.5	8.34	0	0	0			
2005-Mar-14	10:28	3.9	266	10.4	8.34	0	0	0			
2005-Mar-14	10:29	3.9	256	12.4	8.34	0	0	0			
2005-Mar-14	10:29	3.9	243	14.4	8.34	0	0	0			
2005-Mar-14	10:30	3.9	252	16.3	8.34	0	0	0			
2005-Mar-14	10:30	3.9	266	18.3	8.33	0	0	0			
2005-Mar-14	10:31	3.9	256	20.2	8.33	0	0	0			
2005-Mar-14	10:31	3.9	256	22.2	8.33	0	0	0			
2005-Mar-14	10:32	3.9	266	24.2	8.33	0	0	0			
2005-Mar-14	10:32	2.4	114	26.0	7.40	0	0	0			
2005-Mar-14	10:33	2.5	206	27.3	8.25	0	0	0			
2005-Mar-14	10:33	2.5	183	28.5	7.66	0	0	0			
2005-Mar-14	10:34	2.5	197	29.8	8.23	0	0	0			
2005-Mar-14	10:34	0.0	69	30.2	7.44	0	0	0			
2005-Mar-14	10:35	0.1	23	30.2	6.03	0	0	0			
2005-Mar-14	10:35	0.0	18	30.2	7.31	0	0	0			
2005-Mar-14	10:36	0.0	18	30.2	7.67	0	0	0			
2005-Mar-14	10:36	0.0	18	30.2	8.12	0	0	0			
2005-Mar-14	10:37	0.0	18	30.2	12.35	0	0	0			
2005-Mar-14	10:37	0.0	18	30.2	12.59	0	0	0			
2005-Mar-14	10:38	0.0	133	30.2	13.29	0	0	0			
2005-Mar-14	10:38	0.0	142	30.2	13.29	0	0	0			
2005-Mar-14	10:39	0.0	23	30.2	13.33	0	0	0			
2005-Mar-14	10:39	0.0	18	30.2	9.67	0	0	0			
2005-Mar-14	10:40	0.0	14	30.2	11.43	0	0	0			
2005-Mar-14	10:40	0.0	14	30.2	13.78	0	0	0			
2005-Mar-14	10:41	0.0	14	30.2	13.81	0	0	0			
2005-Mar-14	10:41	0.0	14	30.2	13.80	0	0	0			
2005-Mar-14	10:41								End Wash		
2005-Mar-14	10:41								End Spacer		
2005-Mar-14	10:41	0.0	14	30.2	13.80	0	0	0			
2005-Mar-14	10:41	0.0	14	30.2	13.81	0	0	0			
2005-Mar-14	10:41								Start Cement Slurry		
2005-Mar-14	10:41	0.0	14	30.2	13.80	0	0	0			
2005-Mar-14	10:41								Reset Total, Vol = 30.24 bbl		
2005-Mar-14	10:41	0.0	14	0.0	13.81	0	0	0			
2005-Mar-14	10:42	0.0	14	0.0	13.80	0	0	0			
2005-Mar-14	10:42	0.0	14	0.0	13.79	0	0	0			
2005-Mar-14	10:43	0.0	14	0.0	13.78	0	0	0			
2005-Mar-14	10:43	0.0	14	0.0	13.77	0	0	0			
2005-Mar-14	10:44	0.0	160	0.0	13.77	0	0	0			
2005-Mar-14	10:44	0.0	156	0.0	13.79	0	0	0			
2005-Mar-14	10:45	0.0	37	0.0	13.82	0	0	0			
2005-Mar-14	10:45	0.0	23	0.0	10.42	0	0	0			
2005-Mar-14	10:46	0.0	41	0.0	10.51	0	0	0			
2005-Mar-14	10:46	0.0	32	0.0	12.30	0	0	0			
2005-Mar-14	10:47	5.7	110	1.1	13.05	0	0	0			
2005-Mar-14	10:47	4.4	426	2.7	12.98	0	0	0			
2005-Mar-14	10:48	5.7	316	5.4	8.63	0	0	0			
2005-Mar-14	10:48	3.9	188	7.8	9.66	0	0	0			

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Well		Field				Service Date		Customer		Job Number
Fitzgerald 'A' #4						0573-Mar-14		OXY USA, INC.		2205547753
Date	Time	CMT RATE	CMT TREAT PRES	CMT STG VOL	CMT DENS	0	0	0	Message	
	24 hr clock	bbbl/min	psi	bbbl	lb/gal	0	0	0		
2005-Mar-14	10:49	3.9	211	9.8	11.64	0	0	0		
2005-Mar-14	10:49	4.8	316	11.7	12.76	0	0	0		
2005-Mar-14	10:50	4.6	215	14.1	13.69	0	0	0		
2005-Mar-14	10:50	4.6	156	16.4	14.45	0	0	0		
2005-Mar-14	10:51	4.6	165	18.7	15.12	0	0	0		
2005-Mar-14	10:51	4.6	110	21.0	13.30	0	0	0		
2005-Mar-14	10:52	4.7	133	23.4	13.91	0	0	0		
2005-Mar-14	10:53	4.6	160	25.6	13.84	0	0	0		
2005-Mar-14	10:53	4.6	110	27.9	13.15	0	0	0		
2005-Mar-14	10:54	4.6	270	30.2	12.89	0	0	0		
2005-Mar-14	10:54	4.6	101	32.5	13.32	0	0	0		
2005-Mar-14	10:55	4.6	165	34.8	13.68	0	0	0		
2005-Mar-14	10:55	4.6	101	37.1	13.21	0	0	0		
2005-Mar-14	10:56	4.6	105	39.4	14.14	0	0	0		
2005-Mar-14	10:56	4.6	298	41.7	14.30	0	0	0		
2005-Mar-14	10:57	4.6	165	44.0	14.17	0	0	0		
2005-Mar-14	10:57	4.6	266	46.3	14.11	0	0	0		
2005-Mar-14	10:58	4.6	110	48.6	14.01	0	0	0		
2005-Mar-14	10:58	4.6	119	50.9	14.01	0	0	0		
2005-Mar-14	10:59	4.6	114	53.2	13.98	0	0	0		
2005-Mar-14	10:59	4.6	179	55.5	13.91	0	0	0		
2005-Mar-14	11:00	4.6	160	57.8	13.78	0	0	0		
2005-Mar-14	11:00	4.6	105	60.1	13.84	0	0	0		
2005-Mar-14	11:01	4.6	105	62.4	13.51	0	0	0		
2005-Mar-14	11:01	4.6	105	64.7	13.73	0	0	0		
2005-Mar-14	11:02	4.6	105	67.0	13.72	0	0	0		
2005-Mar-14	11:02	4.6	261	69.3	13.78	0	0	0		
2005-Mar-14	11:03	4.6	206	71.6	13.82	0	0	0		
2005-Mar-14	11:03	4.6	137	73.9	14.20	0	0	0		
2005-Mar-14	11:04	4.6	266	76.3	14.31	0	0	0		
2005-Mar-14	11:04	4.6	119	78.6	13.85	0	0	0		
2005-Mar-14	11:05	4.6	252	80.9	13.66	0	0	0		
2005-Mar-14	11:05	4.6	160	83.2	13.88	0	0	0		
2005-Mar-14	11:06	4.6	114	85.5	14.01	0	0	0		
2005-Mar-14	11:06	4.6	119	87.7	14.13	0	0	0		
2005-Mar-14	11:07	4.6	243	90.0	14.01	0	0	0		
2005-Mar-14	11:07	4.6	266	92.3	13.59	0	0	0		
2005-Mar-14	11:08	4.6	96	94.6	12.84	0	0	0		
2005-Mar-14	11:08	4.6	124	96.9	13.98	0	0	0		
2005-Mar-14	11:09	4.6	165	99.2	13.74	0	0	0		
2005-Mar-14	11:09	4.6	124	101.5	14.40	0	0	0		
2005-Mar-14	11:10	0.3	23	103.5	9.74	0	0	0		
2005-Mar-14	11:10	0.0	14	103.5	0.93	0	0	0		
2005-Mar-14	11:11	0.0	14	103.5	0.96	0	0	0		
2005-Mar-14	11:11	0.0	23	103.5	0.94	0	0	0		
2005-Mar-14	11:12	0.0	27	103.5	6.02	0	0	0		
2005-Mar-14	11:12	1.4	27	103.6	13.88	0	0	0		
2005-Mar-14	11:13	1.4	27	104.3	13.89	0	0	0		
2005-Mar-14	11:13	1.3	27	104.7	13.83	0	0	0		
2005-Mar-14	11:14	4.2	110	106.5	13.85	0	0	0		
2005-Mar-14	11:14	1.4	23	108.3	13.36	0	0	0		
2005-Mar-14	11:15	1.9	23	109.0	13.35	0	0	0		
2005-Mar-14	11:15	2.7	27	110.0	0.45	0	0	0		
2005-Mar-14	11:16	4.2	197	111.7	8.51	0	0	0		

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Well		Field				Service Date		Customer		Job Number
Fitzgerald 'A' #4						0573-Mar-14		OXY USA, INC.		2205547753
Date	Time	CMT RATE	CMT TREAT PRES	CMT STG VOL	CMT DENS	0	0	0	Message	
	24 hr clock	bbi/min	psi	bbi	lb/gal	0	0	0		
2005-Mar-14	11:16	4.3	133	113.8	8.08	0	0	0		
2005-Mar-14	11:17	5.6	266	115.7	8.35	0	0	0		
2005-Mar-14	11:17	5.6	270	118.6	8.31	0	0	0		
2005-Mar-14	11:18	5.7	247	121.4	8.34	0	0	0		
2005-Mar-14	11:18	5.5	238	124.2	8.33	0	0	0		
2005-Mar-14	11:19	0.0	23	125.9	8.24	0	0	0		
2005-Mar-14	11:19	0.0	18	125.9	8.17	0	0	0		
2005-Mar-14	11:20	0.0	23	125.9	8.15	0	0	0		
2005-Mar-14	11:20	0.3	23	126.0	8.27	0	0	0		
2005-Mar-14	11:21	1.6	41	126.4	8.33	0	0	0		
2005-Mar-14	11:21	5.6	124	129.0	8.32	0	0	0		
2005-Mar-14	11:22	5.6	119	131.8	8.32	0	0	0		
2005-Mar-14	11:22	5.6	110	134.7	8.33	0	0	0		
2005-Mar-14	11:22								End Scavenger Slurry	
2005-Mar-14	11:22	5.6	124	136.9	8.33	0	0	0		
2005-Mar-14	11:22	5.6	124	137.0	8.32	0	0	0		
2005-Mar-14	11:22								End Cement Slurry	
2005-Mar-14	11:23	5.6	114	137.5	8.32	0	0	0		
2005-Mar-14	11:23								Drop Top Plug	
2005-Mar-14	11:23	5.6	128	137.6	8.32	0	0	0		
2005-Mar-14	11:23	5.6	133	137.7	8.32	0	0	0		
2005-Mar-14	11:23								Start Displacement	
2005-Mar-14	11:23	5.6	119	140.3	8.32	0	0	0		
2005-Mar-14	11:24	5.6	128	17.6	8.32	0	0	0		
2005-Mar-14	11:24	5.6	137	20.4	8.32	0	0	0		
2005-Mar-14	11:25	5.6	119	23.2	8.33	0	0	0		
2005-Mar-14	11:25	5.8	96	26.0	8.32	0	0	0		
2005-Mar-14	11:26	5.6	128	28.8	8.33	0	0	0		
2005-Mar-14	11:26	5.6	119	31.6	8.32	0	0	0		
2005-Mar-14	11:27	5.6	124	34.5	8.32	0	0	0		
2005-Mar-14	11:27	5.6	114	37.3	8.32	0	0	0		
2005-Mar-14	11:28	5.6	114	40.1	8.32	0	0	0		
2005-Mar-14	11:28	5.6	114	42.9	8.32	0	0	0		
2005-Mar-14	11:29	5.6	110	45.8	8.32	0	0	0		
2005-Mar-14	11:29	5.6	110	48.6	8.32	0	0	0		
2005-Mar-14	11:30	5.6	114	51.4	8.32	0	0	0		
2005-Mar-14	11:30	5.6	119	54.2	8.32	0	0	0		
2005-Mar-14	11:31	5.6	133	57.0	8.32	0	0	0		
2005-Mar-14	11:31	5.6	119	59.8	8.32	0	0	0		
2005-Mar-14	11:32	5.6	119	62.6	8.32	0	0	0		
2005-Mar-14	11:32	5.6	124	65.4	8.32	0	0	0		
2005-Mar-14	11:33	5.6	114	68.2	8.32	0	0	0		
2005-Mar-14	11:33	5.6	238	71.1	8.32	0	0	0		
2005-Mar-14	11:34	5.6	275	73.9	8.32	0	0	0		
2005-Mar-14	11:34	5.6	348	76.7	8.32	0	0	0		
2005-Mar-14	11:35	5.6	394	79.5	8.32	0	0	0		
2005-Mar-14	11:35	5.6	439	82.3	8.32	0	0	0		
2005-Mar-14	11:36	5.6	499	85.1	8.32	0	0	0		
2005-Mar-14	11:36	5.6	531	87.9	8.32	0	0	0		
2005-Mar-14	11:37	5.6	636	90.7	8.32	0	0	0		
2005-Mar-14	11:37	2.5	508	92.6	8.33	0	0	0		
2005-Mar-14	11:38	2.5	494	93.9	8.32	0	0	0		
2005-Mar-14	11:38	2.5	568	95.1	8.32	0	0	0		
2005-Mar-14	11:39	2.5	558	96.4	8.32	0	0	0		

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Well		Field				Service Date		Customer		Job Number	
Fitzgerald 'A' #4						0573-Mar-14		OXY USA, INC.		2205547753	
Date	Time	CMT RATE	CMT TREAT PRES	CMT STG VOL	CMT DENS	0	0	0	Message		
	24 hr clock	bbl/min	psi	bbl	lb/gal	0	0	0			
2005-Mar-14	11:39	2.5	563	97.6	8.32	0	0	0			
2005-Mar-14	11:40	2.5	595	98.9	8.32	0	0	0			
2005-Mar-14	11:40	2.5	650	100.1	8.32	0	0	0			
2005-Mar-14	11:41	2.5	650	101.3	8.32	0	0	0			
2005-Mar-14	11:41	2.5	668	102.6	8.32	0	0	0			
2005-Mar-14	11:42	2.5	714	103.8	8.32	0	0	0			
2005-Mar-14	11:42	2.5	742	105.1	8.33	0	0	0			
2005-Mar-14	11:42								Bump Top Plug		
2005-Mar-14	11:42	0.0	1117	105.2	8.33	0	0	0			
2005-Mar-14	11:42								End Displacement		
2005-Mar-14	11:42	0.0	1172	105.2	8.33	0	0	0			
2005-Mar-14	11:43	0.0	1108	105.2	8.33	0	0	0			
2005-Mar-14	11:43	0.0	18	103.5	8.33	0	0	0			
2005-Mar-14	11:44								End Job		
2005-Mar-14	11:44	0.0	18	103.5	8.25	0	0	0			
2005-Mar-14	11:44	0.0	18	103.5	8.27	0	0	0			

Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
6	0	0	6	82	0	30	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Volume	Density		
1150		300	1100		bbl	lb/gal	
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface?	Volume	bbl	
%	82 bbl	104.6 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft	
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost	
Willimon, Wes			Gonzales, Paul			<input checked="" type="checkbox"/> Job Completed	

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Date	3/14/2005
Company	OXY
Job Number	2205547753
Well Name	FITZGERALD
Well Number	A 4
County	SEWARD
State	KS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	11.6
Pipe Depth	6621.51	0
Shoe Length	43.8	
Insert Depth	6577.71	
Hole Size	7 7/8	
Hole Depth	6620	

50:50 POZ SCAV	
25 sacks	D132 D909 D20 D46
1.55 yield	M117 D112 D42 D65
13.8 weight	D53
7.1 water	4.23
cubic ft.	38.8
height	170
bbls	6.9

Pipe Volume	105
Annular Volume	269
Total Cement	82
Total Water	155

374

Pipe Factor	0.0159	0.0155
Annular Factor	0.0406	
Height Factor	4.3868	

50:50 POZ	
270 sacks	SAME AS SCAVENGER
1.55 yield	
13.8 weight	
7.1 water	46
cubic ft.	419
height	2412
bbls	74.5

Casing lift	4371
Cement lift	939

10:10 SS	
270 sacks	
1.55 yield	
13.8 weight	
7.1 water	46
cubic ft.	419
height	1836
bbls	74.5

Test 3000

20 CW100

10 H2O

7 Lead 13.8

75 Tail 13.8

104.6 Displacement

2500 Maximum Pressure

4th System	
sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

Pump time @ 4 BPM

47 MIN

Schlumberger Private

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Cementing Service Report

Customer OXY USA, INC.	Job Number 2205547682
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Well Fitzgerald 'A' 4		Location (legal) Sec 8 34S 33W		Schlumberger Location Perryton, TX		Job Start 2005-Mar-03			
Field		Formation Name/Type		Deviation		Bit Size 12.3 in	Well MD 1,705 ft	Well TVD 1,705 ft	
County Seward		State/Province Kansas		BHP psi	BHST 98 °F	BHCT °F	Pore Press. Gradient psi/ft		
Well Master: 0630670233		API / UWI:		Casing/Liner					
Rig Name MURFIN 20	Drilled For Gas	Service Via Land		Depth, ft 1694	Size, in 8.63	Weight, lb/ft 24	Grade	Thread 8RD	
Offshore Zone		Well Class New	Well Type Development		Tubing/Drill Pipe				
Drilling Fluid Type Bentonite		Max. Density 9.7 lb/gal	Plastic Vi 30 cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing		Job Type Cem Surface Casing		Perforations/Open Hole					
Max. Allowed Tubing Pressure 1500 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 8 5/8" H&SM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 605 SK 35:65 POZ C + 6% D020 + 2% S001 + 0.5 pps D029 195 SK CLASS C + 2% S001 + 0.25 pps D029 DISPLACE WITH FRESH WATER								Diameter in	
Treat Down Casing		Displacement 105.8 bbl		Packer Type		Packer Depth ft			
Tubing Vol. bbl		Casing Vol. 109 bbl		Annular Vol. 125 bbl		OpenHole Vol 234 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job		
Lift Pressure: 444 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Auto-Fill	Squeeze Type		
No. Centralizers: Top Plugs:		Bottom Plugs: 1		Shoe Depth: 1661 ft		Tool Type:			
Cement Head Type: Single		Stage Tool Type:		Tool Depth: ft		Stage Tool Depth: ft			
Job Scheduled For: 2005-Mar-03 14:20		Arrived on Location: 2005-Mar-03 19:00		Leave Location: 2005-Mar-03 19:00		Collar Type:		Tail Pipe Size: in	
				Collar Depth: ft		Tail Pipe Depth: ft		Sqz Total Vol: bbl	
Date	Time	Density lb/gal	Rate bbl/min	Volume bbl	Flowmeter bbl/min	Flowmeter Tot alVol bbl	CMT TREAT PRES psi	0	Message
2005-Mar-03	16:32								Start Job
2005-Mar-03	16:32	8.31	0.0	0.0	0.0	0.0	-9	0	
2005-Mar-03	16:32	8.31	0.0	0.0	0.0	0.0	-9	0	
2005-Mar-03	16:32								Pressure Test Lines
2005-Mar-03	16:32	8.31	0.0	0.0	0.0	0.0	-9	0	
2005-Mar-03	16:32								Start Pumping Spacer
2005-Mar-03	16:32	8.31	0.0	0.2	0.0	0.0	2769	0	
2005-Mar-03	16:33	8.31	0.0	0.2	0.0	0.0	1767	0	
2005-Mar-03	16:34	8.29	0.0	0.2	0.0	0.0	46	0	
2005-Mar-03	16:34	8.31	0.0	0.2	0.0	0.0	128	0	
2005-Mar-03	16:35	8.29	0.0	0.2	0.0	0.0	124	0	
2005-Mar-03	16:36	8.29	5.4	3.1	0.0	0.0	124	0	
2005-Mar-03	16:36								End Spacer
2005-Mar-03	16:36	8.67	5.4	6.1	0.0	0.0	128	0	
2005-Mar-03	16:36								Reset Total, Vol = 6.56 bbl
2005-Mar-03	16:36	8.83	5.4	6.6	0.0	0.0	128	0	
2005-Mar-03	16:36	8.88	5.4	0.2	0.0	0.0	128	0	
2005-Mar-03	16:36								Reset Total, Vol = 0.18 bbl
2005-Mar-03	16:36								Reset Total, Vol = 0.36 bbl
2005-Mar-03	16:36	8.96	5.4	0.4	0.0	0.0	128	0	
2005-Mar-03	16:36	8.99	5.4	0.5	0.0	0.0	128	0	
2005-Mar-03	16:36								Start Mixing Lead Slurry

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0562-Mar-03		OXY USA, INC.		2205547882
Date	Time	Density	Rate	Volume	Flowmeter	FlowmeterTot	CMT TREAT	0	Message
	24 hr clock	lb/gal	bbbl/min	bbbl	bbbl/min	bbbl	psi	0	
2005-Mar-03	16:37	11.12	5.4	3.3	0.0	0.0	146	0	
2005-Mar-03	16:38	12.37	5.4	6.9	0.0	0.0	174	0	
2005-Mar-03	16:38	12.13	5.4	10.5	0.0	0.0	165	0	
2005-Mar-03	16:39	12.21	5.4	14.0	0.0	0.0	160	0	
2005-Mar-03	16:40	11.93	4.9	17.3	0.0	0.0	128	0	
2005-Mar-03	16:40	12.49	3.0	20.9	0.0	0.0	50	0	
2005-Mar-03	16:41	11.87	1.7	24.1	0.0	0.0	37	0	
2005-Mar-03	16:42	12.46	0.0	24.8	0.0	0.0	-14	0	
2005-Mar-03	16:42	12.50	0.0	24.8	0.0	0.0	-14	0	
2005-Mar-03	16:43	12.25	2.5	25.3	0.0	0.0	46	0	
2005-Mar-03	16:44	12.98	3.9	27.0	0.0	0.0	92	0	
2005-Mar-03	16:44	11.66	5.7	29.9	0.0	0.0	146	0	
2005-Mar-03	16:45	12.82	5.7	33.8	0.0	0.0	151	0	
2005-Mar-03	16:46	12.04	5.7	37.6	0.0	0.0	137	0	
2005-Mar-03	16:46	12.32	5.7	41.4	0.0	0.0	142	0	
2005-Mar-03	16:47	12.04	5.7	45.3	0.0	0.0	142	0	
2005-Mar-03	16:48	12.55	5.7	49.1	0.0	0.0	151	0	
2005-Mar-03	16:48	12.53	5.7	52.9	0.0	0.0	151	0	
2005-Mar-03	16:49	12.11	5.7	56.7	0.0	0.0	142	0	
2005-Mar-03	16:50	12.18	5.7	60.5	0.0	0.0	142	0	
2005-Mar-03	16:50	11.84	5.7	64.3	0.0	0.0	137	0	
2005-Mar-03	16:51	12.35	5.7	68.1	0.0	0.0	146	0	
2005-Mar-03	16:52	12.34	5.7	71.9	0.0	0.0	151	0	
2005-Mar-03	16:52	11.93	5.7	75.8	0.0	0.0	142	0	
2005-Mar-03	16:53	12.51	5.7	79.6	0.0	0.0	156	0	
2005-Mar-03	16:54	11.94	5.7	83.4	0.0	0.0	142	0	
2005-Mar-03	16:54	11.69	3.9	86.6	0.0	0.0	64	0	
2005-Mar-03	16:55	12.78	3.9	89.2	0.0	0.0	87	0	
2005-Mar-03	16:56	12.33	5.7	92.2	0.0	0.0	151	0	
2005-Mar-03	16:56	11.63	5.7	96.0	0.0	0.0	133	0	
2005-Mar-03	16:57	11.55	3.8	99.8	0.0	0.0	64	0	
2005-Mar-03	16:58	12.92	2.5	102.0	0.0	0.0	46	0	
2005-Mar-03	16:58	11.57	5.7	105.1	0.0	0.0	137	0	
2005-Mar-03	16:59	12.81	5.7	108.9	0.0	0.0	160	0	
2005-Mar-03	17:00	12.17	5.6	112.8	0.0	0.0	142	0	
2005-Mar-03	17:00	12.22	5.7	116.6	0.0	0.0	142	0	
2005-Mar-03	17:01	11.81	5.7	120.4	0.0	0.0	133	0	
2005-Mar-03	17:02	12.52	5.7	124.2	0.0	0.0	151	0	
2005-Mar-03	17:02	12.75	5.7	128.0	0.0	0.0	160	0	
2005-Mar-03	17:03	12.38	5.7	131.8	0.0	0.0	151	0	
2005-Mar-03	17:04	12.01	5.7	135.6	0.0	0.0	142	0	
2005-Mar-03	17:04	11.72	5.7	139.4	0.0	0.0	137	0	
2005-Mar-03	17:05	11.66	3.9	143.2	0.0	0.0	64	0	
2005-Mar-03	17:06	12.20	5.5	145.8	0.0	0.0	146	0	
2005-Mar-03	17:06	12.12	5.7	149.6	0.0	0.0	142	0	
2005-Mar-03	17:07	12.11	3.9	152.5	0.0	0.0	73	0	
2005-Mar-03	17:08	11.52	3.9	155.1	0.0	0.0	69	0	
2005-Mar-03	17:08	12.61	2.5	157.2	0.0	0.0	46	0	
2005-Mar-03	17:09	12.63	2.5	158.9	0.0	0.0	50	0	
2005-Mar-03	17:10	12.41	2.5	160.5	0.0	0.0	55	0	
2005-Mar-03	17:10	12.80	5.7	163.5	0.0	0.0	169	0	
2005-Mar-03	17:11	11.52	5.7	167.4	0.0	0.0	133	0	
2005-Mar-03	17:12	12.46	5.7	171.2	0.0	0.0	151	0	
2005-Mar-03	17:12	12.48	5.7	175.0	0.0	0.0	151	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0562-Mar-03		OXY USA, INC.		2206547682
Date	Time	Density	Rate	Volume	Flowmeter	FlowmeterTotalVol	CMT TREAT PRES	0	Message
	24 hr clock	lb/gal	bbl/min	bbl	bbl/min	bbl	psi	0	
2005-Mar-03	17:13	12.11	5.7	178.8	0.0	0.0	142	0	
2005-Mar-03	17:14	12.31	5.7	182.6	0.0	0.0	146	0	
2005-Mar-03	17:14	12.45	5.7	186.4	0.0	0.0	156	0	
2005-Mar-03	17:15	12.43	5.7	190.2	0.0	0.0	146	0	
2005-Mar-03	17:16	12.38	5.7	194.0	0.0	0.0	156	0	
2005-Mar-03	17:16	12.08	5.7	201.2	0.0	0.0	146	0	
2005-Mar-03	17:17	12.51	5.7	205.0	0.0	0.0	156	0	
2005-Mar-03	17:18	12.56	5.7	208.9	0.0	0.0	156	0	
2005-Mar-03	17:18	12.24	5.7	212.7	0.0	0.0	142	0	
2005-Mar-03	17:19	12.13	5.7	216.5	0.0	0.0	142	0	
2005-Mar-03	17:20	12.17	5.7	220.4	0.0	0.0	142	0	
2005-Mar-03	17:20	12.24	5.7	224.2	0.0	0.0	146	0	
2005-Mar-03	17:21	12.24	5.7	228.0	0.0	0.0	151	0	
2005-Mar-03	17:22	12.45	5.7	231.8	0.0	0.0	156	0	
2005-Mar-03	17:22	14.27	5.7	235.6	0.0	0.0	197	0	
2005-Mar-03	17:22	14.40	5.7	235.8	0.0	0.0	201	0	
2005-Mar-03	17:22								End Lead Slurry
2005-Mar-03	17:22	14.51	5.7	236.0	0.0	0.0	206	0	
2005-Mar-03	17:22								Reset Total, Vol = 236.01 bbl
2005-Mar-03	17:22								Start Mixing Tail Slurry
2005-Mar-03	17:22	14.57	5.7	0.1	0.0	0.0	206	0	
2005-Mar-03	17:23	15.09	5.7	3.4	0.0	0.0	238	0	
2005-Mar-03	17:24	14.74	5.7	7.2	0.0	0.0	224	0	
2005-Mar-03	17:24	14.89	5.7	11.0	0.0	0.0	224	0	
2005-Mar-03	17:25	14.91	5.7	14.9	0.0	0.0	220	0	
2005-Mar-03	17:26	14.82	5.7	18.7	0.0	0.0	215	0	
2005-Mar-03	17:26	15.02	5.7	22.5	0.0	0.0	220	0	
2005-Mar-03	17:27	15.08	5.7	26.3	0.0	0.0	229	0	
2005-Mar-03	17:28	14.80	5.7	30.1	0.0	0.0	211	0	
2005-Mar-03	17:28	14.71	5.7	33.9	0.0	0.0	206	0	
2005-Mar-03	17:29	14.81	5.7	37.7	0.0	0.0	211	0	
2005-Mar-03	17:30	14.43	3.9	41.4	0.0	0.0	105	0	
2005-Mar-03	17:30	15.20	1.7	43.9	0.0	0.0	23	0	
2005-Mar-03	17:30								End Tail Slurry
2005-Mar-03	17:30	15.18	0.4	44.0	0.0	0.0	23	0	
2005-Mar-03	17:30								Reset Total, Vol = 43.97 bbl
2005-Mar-03	17:30	15.16	0.1	44.0	0.0	0.0	18	0	
2005-Mar-03	17:30	15.13	0.0	0.0	0.0	0.0	18	0	
2005-Mar-03	17:30								Drop Top Plug
2005-Mar-03	17:30	15.12	0.0	0.0	0.0	0.0	14	0	
2005-Mar-03	17:30								Start Displacement
2005-Mar-03	17:31	15.05	0.0	0.0	0.0	0.0	0	0	
2005-Mar-03	17:32	15.11	0.0	0.0	0.0	0.0	-5	0	
2005-Mar-03	17:32	9.49	0.0	0.0	0.0	0.0	-5	0	
2005-Mar-03	17:33	9.44	0.0	0.0	0.0	0.0	-5	0	
2005-Mar-03	17:34	9.44	1.5	0.1	0.0	0.0	37	0	
2005-Mar-03	17:34	9.13	1.5	1.1	0.0	0.0	14	0	
2005-Mar-03	17:35	8.47	2.5	2.8	0.0	0.0	41	0	
2005-Mar-03	17:36	8.38	2.5	4.5	0.0	0.0	41	0	
2005-Mar-03	17:36	8.29	2.5	6.2	0.0	0.0	32	0	
2005-Mar-03	17:37	8.35	2.2	7.8	0.0	0.0	-5	0	
2005-Mar-03	17:38	8.32	2.5	16.5	0.0	0.0	23	0	
2005-Mar-03	17:38	8.31	2.5	18.3	0.0	0.0	-5	0	
2005-Mar-03	17:39	8.27	3.9	20.4	0.0	0.0	32	0	

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Well		Field			Service Date		Customer		Job Number
Fitzgerald 'A' #4					0662-Mar-03		OXY USA, INC.		2205547682
Date	Time	Density	Rate	Volume	Flowmeter	FlowmeterTotalVol	CMT TREAT PRES	0	Message
	24 hr clock	lb/gal	bbl/min	bbl	bbl/min	bbl	psi	0	
2005-Mar-03	17:40	8.30	3.9	23.0	0.0	0.0	55	0	
2005-Mar-03	17:40	8.32	3.9	25.6	0.0	0.0	41	0	
2005-Mar-03	17:41	8.31	3.9	28.3	0.0	0.0	46	0	
2005-Mar-03	17:42	8.31	3.9	30.9	0.0	0.0	46	0	
2005-Mar-03	17:42	8.31	5.7	33.6	0.0	0.0	73	0	
2005-Mar-03	17:43	8.31	3.9	36.2	0.0	0.0	114	0	
2005-Mar-03	17:44	8.31	3.9	38.8	0.0	0.0	114	0	
2005-Mar-03	17:44	8.31	3.9	41.4	0.0	0.0	69	0	
2005-Mar-03	17:45	8.31	3.9	44.0	0.0	0.0	101	0	
2005-Mar-03	17:46	8.31	3.9	46.6	0.0	0.0	119	0	
2005-Mar-03	17:46	8.31	3.9	49.2	0.0	0.0	119	0	
2005-Mar-03	17:47	8.31	3.9	51.8	0.0	0.0	146	0	
2005-Mar-03	17:48	8.31	3.9	54.4	0.0	0.0	156	0	
2005-Mar-03	17:48	8.31	3.9	57.0	0.0	0.0	174	0	
2005-Mar-03	17:49	8.31	3.4	59.4	0.0	0.0	169	0	
2005-Mar-03	17:50	8.31	3.4	61.7	0.0	0.0	169	0	
2005-Mar-03	17:50	8.31	3.4	64.0	0.0	0.0	183	0	
2005-Mar-03	17:51	8.31	3.4	66.3	0.0	0.0	206	0	
2005-Mar-03	17:52	8.31	3.5	68.6	0.0	0.0	211	0	
2005-Mar-03	17:52	8.31	3.9	71.2	0.0	0.0	243	0	
2005-Mar-03	17:53	8.31	3.9	73.8	0.0	0.0	261	0	
2005-Mar-03	17:54	8.31	3.9	76.4	0.0	0.0	288	0	
2005-Mar-03	17:54	8.31	3.7	78.9	0.0	0.0	288	0	
2005-Mar-03	17:55	8.31	3.7	81.4	0.0	0.0	302	0	
2005-Mar-03	17:56	8.31	3.7	83.8	0.0	0.0	320	0	
2005-Mar-03	17:56	8.31	3.7	86.3	0.0	0.0	352	0	
2005-Mar-03	17:57	8.31	3.7	88.7	0.0	0.0	380	0	
2005-Mar-03	17:58	8.31	3.7	91.2	0.0	0.0	375	0	
2005-Mar-03	17:58	8.31	3.7	93.6	0.0	0.0	394	0	
2005-Mar-03	17:59	8.31	3.7	96.1	0.0	0.0	407	0	
2005-Mar-03	18:00	8.31	3.7	98.5	0.0	0.0	435	0	
2005-Mar-03	18:00	8.31	2.1	100.3	0.0	0.0	412	0	
2005-Mar-03	18:01	8.31	2.1	101.7	0.0	0.0	407	0	
2005-Mar-03	18:02	8.31	2.0	103.1	0.0	0.0	412	0	
2005-Mar-03	18:02	8.32	2.1	104.5	0.0	0.0	421	0	
2005-Mar-03	18:03	8.31	2.1	105.9	0.0	0.0	439	0	
2005-Mar-03	18:04	8.33	2.0	107.3	0.0	0.0	462	0	
2005-Mar-03	18:04	8.31	2.0	108.6	0.0	0.0	636	0	
2005-Mar-03	18:05	8.32	0.0	108.8	0.0	0.0	879	0	
2005-Mar-03	18:05	8.32	0.0	105.9	0.0	0.0	874	0	
2005-Mar-03	18:05								Bump Top Plug
2005-Mar-03	18:05								End Displacement
2005-Mar-03	18:05	8.32	0.0	105.9	0.0	0.0	870	0	
2005-Mar-03	18:06	8.32	0.0	105.9	0.0	0.0	824	0	
2005-Mar-03	18:06								Reset Total, Vol = 105.90 bbl
2005-Mar-03	18:06	8.32	0.0	0.0	0.0	0.0	-14	0	
2005-Mar-03	18:06	8.31	0.0	0.0	0.0	0.0	-5	0	
2005-Mar-03	18:07								End Job
2005-Mar-03	18:07	8.31	0.0	0.0	0.0	0.0	0	0	
2005-Mar-03	18:07	8.32	0.0	0.0	0.0	0.0	5	0	
2005-Mar-03	18:07								Stopped Acquisition

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Well Fitzgerald 'A' #4		Field		Service Date 0562-Mar-03		Customer OXY USA, INC.		Job Number 2205547682	
Date	Time 24 hr clock	Density lb/gal	Rate bbl/min	Volume bbl	Flowmeter bbl/min	Flowmeter Tot al Vol bbl	CMT TREAT PRES psi	0	Message
								0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4.5		0	0	5.7	283	0	10		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
980		230	879			8.34 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	48	bbl	
%	283 bbl	105.9 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To		ft	
Customer or Authorized Representative Willimon, Wes			Schlumberger Supervisor Tan, Naveen			<input type="checkbox"/> Circulation Lost	<input checked="" type="checkbox"/> Job Completed		

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Date	3/3/2005
Company	Oxy USA Inc.
Job Number	2205547682
Well Name	Fitzgerald
Well Number	A-4
County	Seward
State	Kansas

Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	1705	
Shoe Length	44	
Insert Depth	1661	
Hole Size	12 1/4	
Hole Depth	1705	

Lead	
605 sacks	35:65 Poz C
2.19 yield	D20,S1,D29
12.2 weight	
12.4 water	179
cubic ft.	1325
height	3210
bbls	236

234	Pipe Volume	109
	Annular Volume	125
	Total Cement	283
	Total Water	314

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

Tail	
195 sacks	Class C
1.34 yield	S1,D29
14.8 weight	
6.35 water	29
cubic ft.	261
height	633
bbls	46.5

Casing lift 700
Cement lift 414

3rd System	
0 sacks	
0 yield	
0 weight	
0 water	0
cubic ft.	0
height	0
bbls	0

Test 1500

Mud

10 Spacer

236 Lead 12.2

47 Tail 14.8

105.8 Displacement

4th System	
sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

2000 Maximum Pressure

Pump time @ 4 BPM

97 MIN

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