

CONFIDENTIAL

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

Form ACO-1

September 1999

Form Must Be Typed

WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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. _____
07/15/04 07/18/04 08/27/04
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 081-21529-0000
County: Haskell
NE - NE - SW - SW Sec 7 Twp. 29 S. R. 33W
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: Unruh B Well #: 4

Field Name: Panoma Field
Producing Formation: Council Grove
Elevation: Ground: 2951 Kelly Bushing: 2960
Total Depth: 3104 Plug Back Total Depth: 3059
Amount of Surface Pipe Set and Cemented at 787 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT I with 8-28-07
(Data must be collected from the Reserve Pit)
Chloride content 16200 mg/l ppm Fluid volume 850 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.: _____

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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 November 8, 2004
Subscribed and sworn to before me this 8th day of Nov.
04
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

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ANITA PETERSON
MY COMMISSION EXPIRES
October 1, 2005

Side Two

ORIGINAL

Operator Name: OXY USA Inc. Lease Name: Unruh B Well # 4

Sec. 7 Twp. 29 S. R. 33W East West County: Haskell

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hollenberg	2557	403
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2585	375
List All E. Logs Run:	Neutron Induction	Krider	2610	350
	Sonic Cement Bond	Winfield	2653	307
		Towanda	2717	243
		Ft. Riley	2773	187
		Wreford	2864	96
		Council Grove	2887	73

CASING RECORD New 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	787	C	270	35/65 POZ + Additives
					C	150	Class C + Additives
Production	7 7/8	4 1/2	10.5	3102	C	200	Panhandle Lite + Additive
					H	260	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 type="checkbox"/> Protect Casing	-			
<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)	Depth
4	2933-2937, 2920-2930, 2916-1918, 2905-2907,	Acidize - 3000 gls 15% HCL	
	2896-2901	Divert Frac-587 bbls linear gel, 12638# 100 Mesh Sand	
		466 bbls linear gel w/70QN2, 111292# 12/20 Sand	

TUBING RECORD	Size 2 3/8	Set At 2956	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. 09/08/04	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf 295	Water Bbls 95	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease
(If vented, Submit ACO-18)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled _____
 Other (Specify) _____

Production Interval: _____

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Schlumberger

Cementing Service Report

KCC

Customer: OXY USA, INC.	Job Number 2205545054
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Well NOV 09 2004 Unruh 'B' 4	Location (legal)	Schlumberger Location Perryton, TX	Job Start 2004-Jul-19
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Field Haskell	Formation Name/Type	Deviation	Bit Size 7.88 in	Well MD 3,104 ft	Well TVD 3,104 ft
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County Haskell	State/Province KS	BHP psi	BHST 109 °F	BHCT °F	Pore Press. Gradient psi/ft
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Well Master: 0630594534	API / UWI:	Casing/Liner			
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Rig Name MURFIN 20	Drilled For Oil & Gas	Service Via	Depth, ft 3091.01	Size, in 4.5	Weight, lb/ft 10.5	Grade	Thread
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Offshore Zone	Well Class New	Well Type Development	Tubing/Drill Pipe				
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Drilling Fluid Type	Max. Density lb/gal	Plastic Vi: cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread
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Service Line Cementing	Job Type Cem Prod Casing	Perforations/Open Hole					
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Max. Allowed Tubing Pressure 2000 psi	Max. Allowed Ann. Pressure psi	Well/Head Connection 4 1/2 HSM	Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
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Service Instructions CEMENT 4 1/2 PROD. CASING WITH: 20 BBL CW100 25 SKS CLASS C+3%D79+0.2%D46+0.25 PPS D29 <i>BAT/move</i> 200 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29 260 SKS 50/50 POZ CLASS H + ADDS DISPLACE WITH 2% KCL & 1 lb. B69				Treat Down Casing	Displacement 48.4 bbl	Packer Type	Packer Depth ft
			Tubing Vol. bbl	Casing Vol. 49 bbl	Annular Vol. 126 bbl	OpenHole Vol 175 bbl	

Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Casing Tools		Squeeze Job	
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Lift Pressure: 900 psi	Shoe Type:	Squeeze Type
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth: 3102 ft

No. Centralizers: Top Plugs: 1 Bottom Plugs: 1	Stage Tool Type:	Tool Depth: ft
Cement Head Type: Single	Stage Tool Depth: ft	Tail Pipe Size: in

Job Scheduled For: 2004-Jul-19 11:30	Arrived on Location:	Leave Location: 2004-Jul-19 15:49	Collar Type:	Tail Pipe Depth: ft
		Collar Depth: 3048 ft	Sqz Total Vol: bbl	

Date	Time	Treating Pressure psi	Density lb/gal	Pump Rate bbl/min	Pump Vol bbl	SK FLOWMETER bbl/min	0	0	Message
2004-Jul-19	13:17	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:17								Start Job
2004-Jul-19	13:17	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:17	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:18	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:18	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:19	0	8.43	0.0	0.0	0.2	0	0	
2004-Jul-19	13:19	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:20	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:20	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:21	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:21	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:22	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:22	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:23	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:23	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:24	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:24	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:25	0	8.42	0.0	0.0	0.2	0	0	
2004-Jul-19	13:31	0	8.38	0.0	0.0	0.0	0	0	
2004-Jul-19	13:31								Pressure Test Lines
2004-Jul-19	13:31	0	8.38	0.0	0.0	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number	
Unruh 'B' #4				04201-Jul-19		OXY USA, INC.		2205545054	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-19	13:32	375	8.47	0.0	0.0	0.5	0	0	
2004-Jul-19	13:32	3191	8.47	0.0	0.0	0.3	0	0	
2004-Jul-19	13:32								Reset Total, Vol = 0.00 bbl
2004-Jul-19	13:32	73	8.47	0.0	0.0	0.3	0	0	
2004-Jul-19	13:32								Start Pumping Wash
2004-Jul-19	13:32	73	8.47	0.0	0.0	0.4	0	0	
2004-Jul-19	13:33	73	8.47	0.0	0.0	0.4	0	0	
2004-Jul-19	13:33	146	8.48	4.0	1.1	4.3	0	0	
2004-Jul-19	13:34	110	8.48	4.0	3.1	4.3	0	0	
2004-Jul-19	13:34	133	8.48	4.4	5.3	4.8	0	0	
2004-Jul-19	13:35	137	8.49	4.7	7.7	5.0	0	0	
2004-Jul-19	13:35	142	8.49	4.7	10.0	5.0	0	0	
2004-Jul-19	13:36	160	8.47	4.7	12.4	5.1	0	0	
2004-Jul-19	13:36	151	8.48	4.7	14.7	5.0	0	0	
2004-Jul-19	13:37	156	8.48	4.7	17.1	5.0	0	0	
2004-Jul-19	13:37	192	8.48	4.7	19.5	5.0	0	0	
2004-Jul-19	13:37	-32	8.48	0.0	20.2	0.3	0	0	
2004-Jul-19	13:37								End Wash
2004-Jul-19	13:38	-27	8.48	0.0	20.2	0.3	0	0	
2004-Jul-19	13:38	-23	8.48	0.0	20.2	0.3	0	0	
2004-Jul-19	13:38								Start Mixing Lead Slurry
2004-Jul-19	13:38	-18	8.48	0.0	20.2	0.3	0	0	
2004-Jul-19	13:38								Reset Total, Vol = 20.19 bbl
2004-Jul-19	13:38	-5	8.46	0.0	0.0	5.3	0	0	
2004-Jul-19	13:39	0	8.24	0.0	0.0	5.7	0	0	
2004-Jul-19	13:39	9	12.61	0.0	0.0	6.7	0	0	
2004-Jul-19	13:40	14	13.51	0.0	0.0	6.0	0	0	
2004-Jul-19	13:40	5	12.79	0.0	0.0	2.0	0	0	
2004-Jul-19	13:40								Reset Total, Vol = 0.00 bbl
2004-Jul-19	13:40	5	12.80	0.0	0.0	0.4	0	0	
2004-Jul-19	13:41	55	12.53	2.0	1.2	2.0	0	0	
2004-Jul-19	13:41	73	12.57	2.0	2.2	2.1	0	0	
2004-Jul-19	13:42	64	12.17	2.1	3.2	2.3	0	0	
2004-Jul-19	13:42	64	11.53	2.1	4.3	2.2	0	0	
2004-Jul-19	13:43	119	11.59	2.0	5.3	2.3	0	0	
2004-Jul-19	13:43	9	11.15	0.0	5.5	0.0	0	0	
2004-Jul-19	13:44	9	10.07	0.0	5.5	4.1	0	0	
2004-Jul-19	13:44	9	9.76	0.0	5.5	0.3	0	0	
2004-Jul-19	13:45	9	9.73	0.0	5.5	0.3	0	0	
2004-Jul-19	13:45	18	9.92	1.2	5.6	0.0	0	0	
2004-Jul-19	13:46	82	13.49	2.5	6.6	2.8	0	0	
2004-Jul-19	13:46	92	12.26	2.5	7.9	2.7	0	0	
2004-Jul-19	13:47	14	10.73	0.3	8.9	1.1	0	0	
2004-Jul-19	13:47	41	10.86	0.0	9.0	2.1	0	0	
2004-Jul-19	13:48	14	10.76	0.0	9.0	1.3	0	0	
2004-Jul-19	13:48	5	8.56	0.0	9.0	0.8	0	0	
2004-Jul-19	13:49	9	10.93	0.0	9.0	0.0	0	0	
2004-Jul-19	13:49	5	11.29	0.0	9.0	0.2	0	0	
2004-Jul-19	13:50	9	11.22	0.0	9.0	0.3	0	0	
2004-Jul-19	13:50	82	11.50	2.5	9.7	2.5	0	0	
2004-Jul-19	13:51	82	11.43	2.5	11.0	2.7	0	0	
2004-Jul-19	13:51	5	9.48	0.0	11.4	5.6	0	0	
2004-Jul-19	13:52	5	9.23	0.0	11.4	5.5	0	0	
2004-Jul-19	13:52	9	9.54	0.0	11.4	5.1	0	0	

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Well		Field		Service Date		Customer		Job Number	
Unruh 'B' #4				04201-Jul-19		OXY USA, INC.		2205545054	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-19	13:53	9	9.76	0.0	11.4	6.0	0	0	
2004-Jul-19	13:53	14	12.27	0.0	11.4	6.1	0	0	
2004-Jul-19	13:54	14	12.34	0.0	11.4	6.0	0	0	
2004-Jul-19	13:54	146	12.11	2.6	11.5	4.9	0	0	
2004-Jul-19	13:55	142	10.70	2.7	12.9	8.4	0	0	
2004-Jul-19	13:55	105	10.95	2.8	14.2	8.3	0	0	
2004-Jul-19	13:56	201	11.91	4.0	16.2	9.5	0	0	
2004-Jul-19	13:56	261	12.17	5.5	18.8	10.3	0	0	
2004-Jul-19	13:57	252	12.20	5.5	21.5	10.0	0	0	
2004-Jul-19	13:57	229	12.00	5.5	24.2	10.5	0	0	
2004-Jul-19	13:58	197	11.92	5.5	27.0	10.3	0	0	
2004-Jul-19	13:58	160	11.94	5.5	29.7	10.3	0	0	
2004-Jul-19	13:59	110	11.99	5.5	32.5	10.4	0	0	
2004-Jul-19	13:59	119	12.00	5.5	35.2	10.7	0	0	
2004-Jul-19	14:00	114	11.98	5.5	38.0	10.5	0	0	
2004-Jul-19	14:00	114	11.88	5.5	40.7	10.6	0	0	
2004-Jul-19	14:01	119	12.05	5.5	43.5	10.4	0	0	
2004-Jul-19	14:01	124	12.21	5.5	46.2	10.4	0	0	
2004-Jul-19	14:02	128	12.16	5.5	48.9	10.5	0	0	
2004-Jul-19	14:02	124	12.08	5.5	51.7	10.4	0	0	
2004-Jul-19	14:03	124	12.01	5.5	54.4	10.5	0	0	
2004-Jul-19	14:03	119	11.90	5.5	57.2	10.4	0	0	
2004-Jul-19	14:04	114	11.81	5.5	59.9	10.6	0	0	
2004-Jul-19	14:04	119	12.27	5.5	62.7	10.4	0	0	
2004-Jul-19	14:05	133	12.46	5.5	65.4	10.2	0	0	
2004-Jul-19	14:05	142	12.49	5.5	68.1	10.5	0	0	
2004-Jul-19	14:06	124	12.32	5.5	70.9	10.2	0	0	
2004-Jul-19	14:06	133	12.19	5.5	73.6	10.6	0	0	
2004-Jul-19	14:07	124	12.08	5.5	76.4	10.5	0	0	
2004-Jul-19	14:07	128	12.08	5.5	79.1	10.5	0	0	
2004-Jul-19	14:08	124	12.09	5.5	81.9	10.6	0	0	
2004-Jul-19	14:08	137	12.12	5.5	84.7	10.5	0	0	
2004-Jul-19	14:09	128	12.05	5.5	87.4	10.3	0	0	
2004-Jul-19	14:09	124	12.00	5.5	90.2	10.3	0	0	
2004-Jul-19	14:10	142	12.05	5.5	92.9	10.1	0	0	
2004-Jul-19	14:10	133	12.07	5.5	95.7	9.7	0	0	
2004-Jul-19	14:11	119	11.65	5.5	98.4	10.0	0	0	
2004-Jul-19	14:11	114	11.98	5.5	99.4	10.0	0	0	
2004-Jul-19	14:11								End Lead Slurry
2004-Jul-19	14:11	124	12.06	5.5	99.7	10.1	0	0	
2004-Jul-19	14:11								Reset Total, Vol = 99.70 bbl
2004-Jul-19	14:11	114	12.12	5.5	0.2	10.1	0	0	
2004-Jul-19	14:11								Start Mixing Tail Slurry
2004-Jul-19	14:11	124	12.49	5.5	1.5	10.3	0	0	
2004-Jul-19	14:12	142	12.99	5.5	4.2	5.3	0	0	
2004-Jul-19	14:12	146	13.56	5.5	6.9	5.6	0	0	
2004-Jul-19	14:13	179	13.89	5.5	9.7	5.5	0	0	
2004-Jul-19	14:13	165	13.92	5.5	12.4	5.5	0	0	
2004-Jul-19	14:14	179	13.90	5.4	15.2	5.4	0	0	
2004-Jul-19	14:14	165	13.88	5.4	17.9	5.3	0	0	
2004-Jul-19	14:15	156	13.88	5.4	20.6	5.3	0	0	
2004-Jul-19	14:15	165	14.05	5.4	23.3	5.3	0	0	
2004-Jul-19	14:16	165	13.91	5.4	26.0	4.3	0	0	
2004-Jul-19	14:16	174	13.85	5.3	28.6	5.3	0	0	

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Well		Field		Service Date		Customer		Job Number	
Unruh 'B' #4				04201-Jul-19		OXY USA, INC.		2205545054	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-19	14:17	156	13.79	5.3	31.3	5.3	0	0	
2004-Jul-19	14:17	146	13.73	5.2	33.9	5.1	0	0	
2004-Jul-19	14:18	160	13.81	5.2	36.5	5.1	0	0	
2004-Jul-19	14:18	156	13.81	5.1	39.1	5.1	0	0	
2004-Jul-19	14:19	156	13.82	5.1	41.7	5.0	0	0	
2004-Jul-19	14:19	142	13.66	5.0	44.2	5.1	0	0	
2004-Jul-19	14:20	160	14.09	5.0	46.8	5.1	0	0	
2004-Jul-19	14:20	179	14.15	5.0	49.3	4.9	0	0	
2004-Jul-19	14:21	165	14.13	5.0	51.7	4.9	0	0	
2004-Jul-19	14:21	183	14.13	5.0	54.2	4.9	0	0	
2004-Jul-19	14:22	156	13.98	4.9	56.7	4.9	0	0	
2004-Jul-19	14:22	151	13.90	4.9	59.2	4.9	0	0	
2004-Jul-19	14:23	160	13.93	4.9	61.6	4.9	0	0	
2004-Jul-19	14:23	179	14.24	4.9	64.1	4.9	0	0	
2004-Jul-19	14:24	165	14.15	4.9	66.6	4.9	0	0	
2004-Jul-19	14:24	160	14.07	5.0	69.1	4.9	0	0	
2004-Jul-19	14:25	160	13.99	4.9	71.5	4.8	0	0	
2004-Jul-19	14:25	146	13.87	4.9	74.0	4.9	0	0	
2004-Jul-19	14:26	146	13.85	4.8	76.4	4.8	0	0	
2004-Jul-19	14:26	151	14.05	4.8	78.8	4.8	0	0	
2004-Jul-19	14:27	156	14.01	4.8	81.2	4.7	0	0	
2004-Jul-19	14:27	156	13.84	4.7	83.6	4.8	0	0	
2004-Jul-19	14:28	146	13.60	4.7	85.9	4.7	0	0	
2004-Jul-19	14:28	9	13.57	0.0	88.1	1.6	0	0	
2004-Jul-19	14:29								End Tail Slurry
2004-Jul-19	14:30								Reset Total, Vol = 88.07 bbl
2004-Jul-19	14:31								Drop Top Plug
2004-Jul-19	14:31								Start Displacement
2004-Jul-19	14:32	-5	8.47	0.0	0.0	0.2	0	0	
2004-Jul-19	14:32	0	8.45	0.0	0.0	0.2	0	0	
2004-Jul-19	14:32	46	8.45	1.8	0.1	1.5	0	0	
2004-Jul-19	14:33	18	8.47	2.4	1.2	3.0	0	0	
2004-Jul-19	14:33	37	8.47	3.1	2.6	3.7	0	0	
2004-Jul-19	14:34	55	8.47	3.8	4.3	4.3	0	0	
2004-Jul-19	14:34	73	8.47	4.8	6.5	5.2	0	0	
2004-Jul-19	14:35	87	8.47	5.2	9.0	5.6	0	0	
2004-Jul-19	14:35	160	8.47	5.2	11.6	5.6	0	0	
2004-Jul-19	14:36	160	8.47	5.2	14.2	5.5	0	0	
2004-Jul-19	14:36	389	8.47	5.2	16.8	5.5	0	0	
2004-Jul-19	14:37	362	8.47	5.2	19.4	5.5	0	0	
2004-Jul-19	14:37	302	8.47	5.1	22.0	5.3	0	0	
2004-Jul-19	14:38	407	8.47	5.2	24.5	5.4	0	0	
2004-Jul-19	14:38	481	8.47	5.1	27.1	5.4	0	0	
2004-Jul-19	14:39	508	8.47	5.2	29.7	5.3	0	0	
2004-Jul-19	14:39	586	8.47	5.1	32.2	5.3	0	0	
2004-Jul-19	14:40	650	8.47	5.1	34.8	5.3	0	0	
2004-Jul-19	14:40	696	8.47	5.1	37.4	5.2	0	0	
2004-Jul-19	14:41	632	8.47	1.9	39.0	2.1	0	0	
2004-Jul-19	14:41	632	8.47	2.0	40.0	2.2	0	0	
2004-Jul-19	14:42	673	8.47	1.9	41.0	2.2	0	0	
2004-Jul-19	14:42	677	8.47	1.9	41.9	2.2	0	0	
2004-Jul-19	14:43	705	8.47	2.0	42.9	2.3	0	0	
2004-Jul-19	14:43	737	8.47	2.0	43.9	2.3	0	0	
2004-Jul-19	14:44	746	8.47	1.9	44.9	2.3	0	0	

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Well		Field		Service Date		Customer		Job Number	
Unruh 'B' #4				04201-Jul-19		OXY USA, INC.		2205546054	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-19	14:44	769	8.47	1.9	45.9	2.2	0	0	
2004-Jul-19	14:45	783	8.47	1.9	46.8	2.2	0	0	
2004-Jul-19	14:45	792	8.47	1.9	47.8	2.2	0	0	
2004-Jul-19	14:46	815	8.47	1.8	48.7	2.2	0	0	
2004-Jul-19	14:46	1314	8.47	0.0	49.3	0.4	0	0	
2004-Jul-19	14:47	1291	8.48	0.0	49.3	0.3	0	0	
2004-Jul-19	14:47	18	8.48	0.0	49.3	0.3	0	0	
2004-Jul-19	14:48	18	8.48	0.0	49.3	0.4	0	0	
2004-Jul-19	14:48								Bump Top Plug
2004-Jul-19	14:48	18	8.48	0.0	49.3	0.3	0	0	
2004-Jul-19	14:48	18	8.48	0.0	49.3	0.4	0	0	
2004-Jul-19	14:48								End Displacement
2004-Jul-19	14:48	23	8.48	0.0	49.3	0.4	0	0	
Post Job Summary									
Average Pump Rates, bpm				Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4			5.7	165	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1300		500	1300		bbl	8.43 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume		bbl			
%	165 bbl	48.4 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			
Greg, Fillpot,			Landeros, Feliverto						

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Comments:

Fluid Systems:

DISPLACE			
2/1000 L64 & 1 LB B69			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
B069	1 lbs	1	
L064	4 gal	4	

LEAD			
225 SKS CLASS C+3%D79+0.2%D46+0.25 PPS D29			
Density:	12 lb/gal	Thickening Time:	
Yield:	2.61 ft ³ /sk		
H2O Mix:	15.16 gal/sk		
H2O:	3411 gal	Eq. Sack Weight:	94 lb
		Total Blend:	225 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D046	0.188 lbs/sk	42.3	
D079	2.82 lbs/sk	634.5	
CLASS C	94 lbs/sk	21150	
D029	0.25 lbs/sk	56.25	

TAIL			
260 SACKS 50:50 POZ H+2%D20+5 PPS D42+5 PPS D53+0.25%D112+0.25%D65+3%M117KCL+0.25%D46			
Density:	13.8 lb/gal	Thickening Time:	
Yield:	1.55 ft ³ /sk		
H2O Mix:	7.1 gal/sk		
H2O:	1846 gal	Eq. Sack Weight:	86.5 lb
		Total Blend:	260 sacks
Dowell Code	Conc/ Amount	Total Quantity	
M117	2.595 lbs/sk	674.7	
D020	1.73 lbs/sk	449.8	
D042	5 lbs/sk	1300	
D053	5 lbs/sk	1300	
D065	0.216 lbs/sk	56.16	
D046	0.216 lbs/sk	56.16	
CLASS H	47 lbs/sk	12220	
POZ	39.5 lbs/sk	10270	
D112	0.216 lbs/sk	56.16	

WASH			
20 BBLS CW100			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D122A	10 gal	10	
J237A	5 gal	5	

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Service Order

2004-Jul-20

Customer OXY USA, INC.		Person Taking Call Ousley, John		Dowell Location Perryton, TX		OrderDate 2004-Jun-30		Job Number 2205545054	
Well Name and Number Unruh 'B' 4			Legal Location		Field		County Haskell		State/Province KS
Well Master: 0630594534			API / UWI:						
Rig Name MURFIN 20			Well Age New		Sales Engineer Cambern, Charles			Job Type Cem Prod Casing	
Time Well Ready:		Deviation	Bit Size 7.88 in	Well MD 3,104 ft	Well TVD 3,104 ft		BHP psi	BHST 109 °F	BHCT °F
Treat Down Casing	Packer Type	Packer Depth ft	WellHead Connection 4 1/2 HSM		HHP on Location	Max Allowed Pressure 2000		Max Allowed AnnPressure	
Casing					Services Instructions: CEMENT 4 1/2 PROD. CASING WITH: 20 BBL CW100 25 SKS CLASS C+3%D79+0.2%D46+0.25 PPS D29 200 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29 260 SKS 50/50 POZ CLASS H + ADDS DISPLACE WITH 2% KCL & 1 lb. B69				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
3091.01	4.5	10.5							
Tubing					Extra Equipment: 1 PUMP 1 ABT 1 CEMCAT				
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
Perforated Intervals									
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft					
				Diameter in					
Expected On Location:					Ready To Pump:				

Contact	Voice	Mobile	FAX	Notes
Wes Willimon	1 620 629 4220	1 620 655 1756		
RAMON-CHEYENNE 8		1 620 272 1501		
CHEYENNE RIG 8		1 620 272 2032		

Notes:
 4 1/2 FE = 1 TOP PLUG & 1 BOTTOM PLUG
 2/1000 L64 & 1 LB B69

Directions:
 FROM PERRYTON TX === NORTH ON HWY 83 TO SUBLETTE, KS.=== 6 NORTH TO HWY 160 (ULYSSES BLACKTOP) ===6 MI WEST ON HWY 160 === 2 SOUTH === EAST & NORTH INTO

Other Notes:
 FOLLOW ALL CONVOY POLICIES AND BE SAFE!!!

CONFIDENTIAL

Cementing Service Report

Schlumberger
KCC

Customer OXY USA, INC.	Job Number 2205546364
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Well ID UNRUH 'B' 4	Location (legal)	Schlumberger Location Perryton, TX	Job Start 2004-Jul-16
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Formation Name/Type	Deviation	Bt Size 12.3 in	Well MD 790 ft	Well TVD 790 ft
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County HASKELL	State/Province KANSAS	BHP psi	BHST 90 °F	BHCT °F	Pore Press. Gradient psi/ft
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Well Master: 0630594534	API / UWI:	Casing/Liner
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Rig Name MURFIN 20	Drilled For Oil & Gas	Service Via	Depth, ft 787	Size, in 8.63	Weight, lb/ft 24	Grade K55	Thread 8RD
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Offshore Zone	Well Class New	Well Type Development	Tubing/Drill Pipe				
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Drilling Fluid Type	Max. Density lb/gal	Plastic V: cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread
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Service Line Cementing	Job Type Cem Surface Casing	Perforations/Open Hole				
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Max. Allowed Tubing Pressure 1000 psi	Max. Allowed Ann. Pressure psi	WellHead Connection 8 5/8 HS&M	Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
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Service Instructions CEMENT 8 5/8 CASING WITH: 270 SKS 35/65 POZ C+6%D20+2%S1+0.5 PPS D29 150 SKS CLASS C + 2% S1 + 0.25 PPS D29							
Treat Down Casing	Displacement 47.3 bbl	Packer Type	Packer Depth ft				
Tubing Vol. bbl	Casing Vol. 50 bbl	Annular Vol. 58 bbl	OpenHole Vol. 108 bbl				

Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Casing Tools
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Lift Pressure: 250 psi	Shoe Type:	Squeeze Job
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Squeeze Type
No. Centralizers: Top Plugs: 1 Bottom Plugs: 0	Shoe Depth: 787 ft	Tool Type:
Cement Head Type: Single	Stage Tool Type:	Tool Depth: ft
Job Scheduled For: Arrived on Location: 2004-Jul-16 1:00 Leave Location: 2004-Jul-16 6:00	Stage Tool Depth: ft	Tail Pipe Size: in
	Collar Type:	Tail Pipe Depth: ft
	Collar Depth: 44 ft	Sqz Total Vol: bbl

Date	Time	Treating Pressure 24 hr clock psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message
2004-Jul-16	3:39	2660	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:39								Start Job
2004-Jul-16	3:39	2637	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:39	2911	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:39								Pressure Test Lines
2004-Jul-16	3:40	2774	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:40	2719	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:41	2682	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:41	5	0.0	8.20	0.0	0	0	0	
2004-Jul-16	3:42	110	4.8	8.19	0.3	0	0	0	
2004-Jul-16	3:42	224	5.7	8.15	3.2	0	0	0	
2004-Jul-16	3:43	243	5.7	8.15	6.0	0	0	0	
2004-Jul-16	3:43								Start Pumping Spacer
2004-Jul-16	3:43	243	5.7	8.16	8.4	0	0	0	
2004-Jul-16	3:43	243	5.7	8.16	9.0	0	0	0	
2004-Jul-16	3:44	261	5.7	8.76	11.8	0	0	0	
2004-Jul-16	3:44								End Spacer
2004-Jul-16	3:44	270	5.7	9.27	12.6	0	0	0	
2004-Jul-16	3:44	270	5.7	9.39	12.8	0	0	0	
2004-Jul-16	3:44								Reset Total, Vol = 12.78 bbl
2004-Jul-16	3:44	270	5.7	9.55	0.3	0	0	0	
2004-Jul-16	3:44								Start Mixing Lead Slurry

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Well		Field			Service Date		Customer		Job Number
UNRUH 'B' #4					04198-Jul-16		OXY USA, INC.		2205546364
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2004-Jul-16	3:44	243	5.7	10.05	1.9	0	0	0	
2004-Jul-16	3:45	288	5.7	11.56	4.8	0	0	0	
2004-Jul-16	3:45	339	5.7	12.89	7.6	0	0	0	
2004-Jul-16	3:46	325	5.7	12.32	10.5	0	0	0	
2004-Jul-16	3:46	293	5.7	11.96	13.3	0	0	0	
2004-Jul-16	3:47	279	5.7	11.99	16.2	0	0	0	
2004-Jul-16	3:47	270	5.7	11.85	19.0	0	0	0	
2004-Jul-16	3:48	279	5.7	11.86	21.9	0	0	0	
2004-Jul-16	3:48	275	5.7	12.51	24.8	0	0	0	
2004-Jul-16	3:49	279	5.7	12.59	27.6	0	0	0	
2004-Jul-16	3:49	247	5.7	12.04	30.5	0	0	0	
2004-Jul-16	3:50	247	5.7	12.18	33.3	0	0	0	
2004-Jul-16	3:50	238	5.7	12.17	36.2	0	0	0	
2004-Jul-16	3:51	215	5.7	12.06	39.1	0	0	0	
2004-Jul-16	3:51	206	5.7	12.39	41.9	0	0	0	
2004-Jul-16	3:52	192	5.7	12.21	44.8	0	0	0	
2004-Jul-16	3:52	179	5.7	11.95	47.6	0	0	0	
2004-Jul-16	3:53	160	5.7	11.67	50.5	0	0	0	
2004-Jul-16	3:53	96	3.9	11.87	52.5	0	0	0	
2004-Jul-16	3:54	165	5.7	11.93	55.1	0	0	0	
2004-Jul-16	3:54	188	5.7	12.04	58.0	0	0	0	
2004-Jul-16	3:55	192	5.7	11.82	60.8	0	0	0	
2004-Jul-16	3:55	211	5.7	12.02	63.7	0	0	0	
2004-Jul-16	3:56	211	5.7	12.11	66.6	0	0	0	
2004-Jul-16	3:56	211	5.7	11.78	69.4	0	0	0	
2004-Jul-16	3:57	96	3.9	11.07	72.0	0	0	0	
2004-Jul-16	3:57	27	0.0	10.47	73.0	0	0	0	
2004-Jul-16	3:58	9	0.0	11.43	73.0	0	0	0	
2004-Jul-16	3:58	9	0.0	12.15	73.0	0	0	0	
2004-Jul-16	3:59	192	5.7	12.34	75.8	0	0	0	
2004-Jul-16	3:59	110	3.9	12.25	78.0	0	0	0	
2004-Jul-16	4:00	256	5.7	12.43	80.7	0	0	0	
2004-Jul-16	4:00	247	5.7	11.98	83.6	0	0	0	
2004-Jul-16	4:01	256	5.7	12.58	86.4	0	0	0	
2004-Jul-16	4:01	238	5.7	12.13	89.3	0	0	0	
2004-Jul-16	4:02	252	5.7	12.20	92.1	0	0	0	
2004-Jul-16	4:02	238	5.7	11.80	95.0	0	0	0	
2004-Jul-16	4:03	252	5.7	12.26	97.9	0	0	0	
2004-Jul-16	4:03	256	5.7	12.45	100.7	0	0	0	
2004-Jul-16	4:04	137	3.9	12.65	103.3	0	0	0	
2004-Jul-16	4:04								End Lead Slurry
2004-Jul-16	4:04	160	3.9	13.37	104.9	0	0	0	
2004-Jul-16	4:04								Reset Total, Vol = 105.07 bbl
2004-Jul-16	4:04	160	3.9	13.39	105.1	0	0	0	
2004-Jul-16	4:04								Start Mixing Tail Slurry
2004-Jul-16	4:04	160	3.9	13.41	0.1	0	0	0	
2004-Jul-16	4:04	165	3.9	13.48	0.2	0	0	0	
2004-Jul-16	4:05	357	5.7	14.94	2.7	0	0	0	
2004-Jul-16	4:05	357	5.7	15.24	5.5	0	0	0	
2004-Jul-16	4:06	307	5.7	14.23	8.4	0	0	0	
2004-Jul-16	4:06	156	3.8	15.00	10.5	0	0	0	
2004-Jul-16	4:07	325	5.7	14.94	13.1	0	0	0	
2004-Jul-16	4:07	325	5.7	14.78	15.9	0	0	0	
2004-Jul-16	4:08	307	5.7	14.78	18.8	0	0	0	

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Well		Field			Service Date		Customer			Job Number
UNRUH 'B' #4					04198-Jul-16		OXY USA, INC.			2205546364
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		
2004-Jul-16	4:08	302	5.7	14.78	21.7	0	0	0		
2004-Jul-16	4:09	293	5.7	14.90	24.5	0	0	0		
2004-Jul-16	4:09	284	5.7	14.62	27.4	0	0	0		
2004-Jul-16	4:10	142	3.9	14.56	29.5	0	0	0		
2004-Jul-16	4:10	151	3.9	14.88	31.4	0	0	0		
2004-Jul-16	4:11	169	3.9	15.33	33.4	0	0	0		
2004-Jul-16	4:11	174	3.9	15.43	35.3	0	0	0		
2004-Jul-16	4:12								End Tail Slurry	
2004-Jul-16	4:12	46	0.0	15.41	36.0	0	0	0		
2004-Jul-16	4:12								Reset Total, Vol = 35.99 bbl	
2004-Jul-16	4:12	46	0.0	15.43	36.0	0	0	0		
2004-Jul-16	4:12								Drop Top Plug	
2004-Jul-16	4:12	46	0.0	15.43	0.0	0	0	0		
2004-Jul-16	4:12								Start Displacement	
2004-Jul-16	4:12	41	0.0	15.44	0.0	0	0	0		
2004-Jul-16	4:12	41	0.0	15.44	0.0	0	0	0		
2004-Jul-16	4:12	32	0.0	15.12	0.0	0	0	0		
2004-Jul-16	4:13	27	0.0	9.70	0.0	0	0	0		
2004-Jul-16	4:13	27	0.0	9.71	0.0	0	0	0		
2004-Jul-16	4:14	27	0.0	9.42	0.0	0	0	0		
2004-Jul-16	4:14	110	5.7	9.34	1.0	0	0	0		
2004-Jul-16	4:15	92	6.6	8.66	4.1	0	0	0		
2004-Jul-16	4:15	73	6.6	8.31	7.4	0	0	0		
2004-Jul-16	4:16	169	6.6	8.20	10.7	0	0	0		
2004-Jul-16	4:16	215	6.4	8.18	14.0	0	0	0		
2004-Jul-16	4:17	261	2.5	8.17	16.3	0	0	0		
2004-Jul-16	4:17	288	2.5	8.18	17.5	0	0	0		
2004-Jul-16	4:18	325	2.5	8.19	18.8	0	0	0		
2004-Jul-16	4:18	311	5.7	8.19	20.7	0	0	0		
2004-Jul-16	4:19	389	5.7	8.19	23.5	0	0	0		
2004-Jul-16	4:19	320	5.7	8.19	26.4	0	0	0		
2004-Jul-16	4:20	343	5.7	8.25	32.2	0	0	0		
2004-Jul-16	4:20	362	5.7	8.19	35.0	0	0	0		
2004-Jul-16	4:21	179	2.2	8.19	37.6	0	0	0		
2004-Jul-16	4:21	224	2.1	8.19	38.6	0	0	0		
2004-Jul-16	4:22	256	2.1	8.19	39.7	0	0	0		
2004-Jul-16	4:22	252	2.1	8.19	40.7	0	0	0		
2004-Jul-16	4:23	229	1.9	8.19	41.7	0	0	0		
2004-Jul-16	4:23	256	1.9	8.19	42.6	0	0	0		
2004-Jul-16	4:24	266	1.9	8.19	43.6	0	0	0		
2004-Jul-16	4:24	266	1.9	8.19	44.5	0	0	0		
2004-Jul-16	4:25	275	1.9	8.19	45.4	0	0	0		
2004-Jul-16	4:25	270	1.9	8.19	46.4	0	0	0		
2004-Jul-16	4:26	270	1.9	8.19	47.3	0	0	0		
2004-Jul-16	4:26	604	0.0	8.20	47.5	0	0	0		
2004-Jul-16	4:26	604	0.0	8.20	47.5	0	0	0		
2004-Jul-16	4:26								Bump Top Plug	
2004-Jul-16	4:26	604	0.0	8.20	47.5	0	0	0		
2004-Jul-16	4:26								End Displacement	
2004-Jul-16	4:26	604	0.0	8.20	47.5	0	0	0		
2004-Jul-16	4:26								Reset Total, Vol = 47.53 bbl	
2004-Jul-16	4:27	604	0.0	8.20	0.0	0	0	0		
2004-Jul-16	4:27	142	0.0	8.20	0.0	0	0	0		
2004-Jul-16	4:28	14	0.0	8.20	0.0	0	0	0		

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Well		Field			Service Date		Customer		Job Number
UNRUH 'B' #4					04198-Jul-16		OXY USA, INC.		2205546364
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2004-Jul-16	4:28	160	0.0	8.20	0.0	0	0	0	
2004-Jul-16	4:29	14	0.0	8.20	0.0	0	0	0	
2004-Jul-16	4:29	9	0.0	8.20	0.0	0	0	0	
2004-Jul-16	4:30	9	0.0	8.20	0.0	0	0	0	
2004-Jul-16	4:30	9	0.0	8.20	0.0	0	0	0	
2004-Jul-16	4:30								End Job
2004-Jul-16	4:30	9	0.0	8.20	0.0	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		
5	0	0	6.5	140	0	10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			600		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	30	bbl		
%	140 bbl	47.3 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			
Fillpot, Gregg			Ahrends, Timothy						

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Date	07/16/04
Company	OXY
Job Number	2205546364
Well Name	Unruh B
Well Number	4
County	Haskell
State	KS

Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	787	
Shoe Length	44	
Insert Depth	743	
Hole Size	12 1/4	
Hole Depth	790	

1st System	
270 sacks	C
2.61 yield	
12 weight	
15.6 water	100
cubic ft.	705
height	1708
bbls	126

108	Pipe Volume	50
	Annular Volume	58
	Total Cement	161
	Total Water	170

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

2nd System	
150 sacks	C
1.34 yield	
14.8 weight	
6.3 water	23
cubic ft.	201
height	487
bbls	35.8

Casing lift 323
Cement lift 198

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

Test 2000

0 Mud

10 Spacer

126 Lead **12**

36 Tail **14.8**

47.3 Displacement

1500 Maximum Pressure

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

Pump time @ 6 BPM

35 MIN

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