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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

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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: Cheyenne Drilling Inc.
 License: 5382
 Wellsite Geologist: NA
 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: OXY USA, Inc.
 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. _____
11/18/03 11/21/03 12/01/03
 Spud Date or _____ Date Reached TD _____ Completion Date or
 Recompletion Date _____ Recompletion Date _____

API No. 15 - 175-21904-0000
 County: Seward
SE - SE - NW - NW Sec 30 Twp. 34 S. R. 33W
1250 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: Kirk A Well #: 3
 Field Name: Hugoton Chase
 Producing Formation: Chase
 Elevation: Ground: 2881 Kelly Bushing: 2886
 Total Depth: 2946 Plug Back Total Depth: 2900
 Amount of Surface Pipe Set and Cemented at 868 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.

ALT IWHM 2-12-07
 Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit)
 Chloride content 775 mg/l ppm Fluid volume 7400 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 March 9, 2004
 Subscribed and sworn to before me this 9th day of March
20 04
 Notary Public: Kathleen R. Poulton
 Date Commission Expires: November 8, 2006

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

NOTARY PUBLIC - State of Kansas
 KATHLEEN R. POULTON
 My Appt. Exp. 11-8-06

✓

X

Side Two

Operator Name: OXY USA Inc. Lease Name: Kirk A Well #: 3

Sec. 30 Twp. 34 S. R. 33W East West County: Seward

Instructions: Show important top 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hollenberg	2601	285
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2639	247
List All E. Logs Run:	Induction	Microlog	Paddock	2649
Neutron	Sonic	TracerScan	Krider	2671
Cement Bond Log			Odell	2712
			Winfield	2724
			Gage	2767

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	868	C	200 100	Panhandle Lite + Additive Class C + Additives
Production	7 7/8	4 1/2	11.6	2941	C	215 220	Panhandle Lite + Additive 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 <i>(Amount and Kind of Material Used)</i>	Depth
4	2610-2620	Acidize - 1000 gls 15% HCL	
		Divert Frac: 400 gls 30# linear gel, 16,700# 100 Mesh.	
		32,032 gls 75Q N2 w/ 30# linear gel, 45,060# 12/20 Mesh Sand	
4	2602-2606, 2640-2650, 2670-2680, 2724-2736		

TUBING RECORD	Size 2 3/8	Set At 2791	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 01/02/04	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf 53	Water Bbls 60	Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION

Production Interval

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Date	11/22/03
Company	OXY
Job Number	2205544229
Well Name	Kirk
Well Number	A-3
County	Seward
State	KS

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Pipe Size	4 1/2	
Pipe Weight	11.6	10.5
Pipe Depth	2941	
Shoe Length	41	
Insert Depth	2900	
Hole Size	7 7/8	
Hole Depth	2940	

1st System	
215 sacks	Class C
3.3 yield	D79,D46,D29
11 weight	
20.3 water	104
cubic ft.	710
height	3115
bbls	126

165	Pipe Volume	46
	Annular Volume	119
	Total Cement	187
	Total Water	186

Pipe Factor	0.0155	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

2nd System	
220 sacks	50/50 POZ/H
1.55 yield	D20,D42,D53,D112
13.8 weight	D65,M117,D46
7.1 water	37
cubic ft.	341
height	1497
bbls	60.7

Casing lift 2145
Cement lift 885

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

Test 2500

0 Mud

20 Chemical Wash

126 Lead 11

61 Tail 13.8

45.0 Displacement

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

2000 Maximum Pressure

Pump Time @ 5 BPM 46 MIN

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Cementing Service Report

ORIGINAL

Customer OXY USA, INC.	KCC	Job Number 2205544229
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Well KIRK A-3	Location (Legal) SEC 30-T34S-R33W	Schlumberger Location Perryton, TX	Job Start 2003-Nov-22
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Field	Formation Name/Type	Deviation 7.88 in	Bit Size 2.940 ft	Well MD 2,940 ft	Well TVD 2,940 ft
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County SEWARD CO	State/Province KANSAS	BHP psi	BHST 120 °F	BHCT 100 °F	Pore Press. Gradient psi/ft
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Well Master: 0630081381	API / UWI:	Casing/Liner			
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Rig Name CHEYENNE 8	Drilled For Oil & Gas	Service Via	Depth, ft 2941	Size, in 4.5	Weight, lb/ft 11.6	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 Viscosity	Depth, ft	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	Wellhead Connection 4 1/2 HS&M	Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
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Service Instructions

CEMENT 4 1/2 PRODUCTION CASING WITH:
 20 BBL CW100
 215 SKS CLASS C + 3%D79 + 0.2%D46 + 0.25 PPS D29
 220 SKS 50/50 POZ CLASS H + 2%D20 + 3%M117 + 5 PPS D42 + 5 PPS
 D53 + 0.25% D112 + 0.25% D65 + 0.25% D46
 DISPLACE WITH 4 GAL L64 + 1 LB OF B69

Treat Down Casing	Displacement 45 bbl	Packer Type	Packer Depth ft
Tubing Vol. bbl	Casing Vol. 46 bbl	Annular Vol. 119 bbl	Open Hole Vol. 165 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: 650 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input checked="" type="checkbox"/>	Shoe Type:	Squeeze Type:
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No. Centralizers:	Top Plugs: 1	Bottom Plugs: 1	Shoe Depth: 2941 ft	Tool Type:
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Cement Head Type: Single	Stage Tool Type:	Tool Depth: ft
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Job Scheduled For:	Arrived on Location: 2003-Nov-21 23:30	Leave Location: 2003-Nov-22 9:30	Stage Tool Depth: ft	Tail Pipe Size: in
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Collar Type:	Collar Depth: 2900 ft	Tail Pipe Depth: ft	Sqz Total Vol: bbl
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Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	Volume bbl	0	0	0	Message
2003-Nov-22	7:14								Start Job
2003-Nov-22	7:14	0	0.0	8.44	0.0	0	0	0	
2003-Nov-22	7:15	46	0.0	8.47	0.0	0	0	0	
2003-Nov-22	7:15	2390	0.1	8.47	0.1	0	0	0	
2003-Nov-22	7:16	2307	0.0	8.45	0.1	0	0	0	
2003-Nov-22	7:16								Pressure Test Lines
2003-Nov-22	7:16	2293	0.0	8.45	0.1	0	0	0	
2003-Nov-22	7:16	2234	0.0	8.45	0.1	0	0	0	
2003-Nov-22	7:17	2225	0.0	8.44	0.1	0	0	0	
2003-Nov-22	7:17								Reset Total, Vol = 0.11 bbl
2003-Nov-22	7:17	2216	0.0	8.44	0.1	0	0	0	
2003-Nov-22	7:17	2188	0.0	8.44	0.1	0	0	0	
2003-Nov-22	7:18	50	0.0	8.44	0.1	0	0	0	
2003-Nov-22	7:18	101	2.9	8.42	1.1	0	0	0	
2003-Nov-22	7:19	160	5.1	8.44	3.3	0	0	0	
2003-Nov-22	7:19	183	5.2	8.44	5.8	0	0	0	
2003-Nov-22	7:20	188	5.2	8.44	6.2	0	0	0	
2003-Nov-22	7:20								Start Pumping Wash
2003-Nov-22	7:20	197	5.3	8.44	8.5	0	0	0	
2003-Nov-22	7:20	206	5.4	8.44	11.2	0	0	0	
2003-Nov-22	7:21	224	5.5	8.94	13.9	0	0	0	
2003-Nov-22	7:21	243	5.5	8.51	16.6	0	0	0	

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Well		Field			Service Date		Customer			Job Number
KIRK #A-3					03326-Nov-22		OXY USA, INC.			2205544220
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	0	0	0	Message	
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0		
2003-Nov-22	7:22	233	5.6	8.52	19.4	0	0	0		
2003-Nov-22	7:22	238	5.6	9.05	20.6	0	0	0		
2003-Nov-22	7:22								End Wash	
2003-Nov-22	7:22								Reset Total, Vol = 20.71 bbl	
2003-Nov-22	7:22	233	5.6	9.25	20.8	0	0	0		
2003-Nov-22	7:22								Start Mixing Lead Slurry	
2003-Nov-22	7:22	233	5.6	9.94	0.3	0	0	0		
2003-Nov-22	7:22	224	5.7	12.32	1.4	0	0	0		
2003-Nov-22	7:23	243	5.7	11.39	4.3	0	0	0		
2003-Nov-22	7:23	233	5.8	11.11	7.1	0	0	0		
2003-Nov-22	7:24	229	5.8	11.17	10.0	0	0	0		
2003-Nov-22	7:24	211	5.9	11.18	12.9	0	0	0		
2003-Nov-22	7:25	174	5.8	12.08	15.9	0	0	0		
2003-Nov-22	7:25	160	5.9	11.65	18.8	0	0	0		
2003-Nov-22	7:26	156	5.9	11.48	21.7	0	0	0		
2003-Nov-22	7:26	174	5.9	9.77	24.7	0	0	0		
2003-Nov-22	7:27	215	6.0	10.09	27.8	0	0	0		
2003-Nov-22	7:27	201	6.0	10.76	30.8	0	0	0		
2003-Nov-22	7:28	188	6.0	12.94	33.8	0	0	0		
2003-Nov-22	7:28	183	6.0	11.61	36.8	0	0	0		
2003-Nov-22	7:29	128	6.0	7.99	39.8	0	0	0		
2003-Nov-22	7:29	114	6.0	11.42	42.8	0	0	0		
2003-Nov-22	7:30	110	6.0	10.59	45.8	0	0	0		
2003-Nov-22	7:30	110	6.1	10.69	48.9	0	0	0		
2003-Nov-22	7:31	114	6.1	11.34	51.9	0	0	0		
2003-Nov-22	7:31	119	6.1	11.89	55.0	0	0	0		
2003-Nov-22	7:32	119	6.0	11.27	58.0	0	0	0		
2003-Nov-22	7:32	124	6.1	11.75	61.0	0	0	0		
2003-Nov-22	7:33	124	6.1	12.11	64.1	0	0	0		
2003-Nov-22	7:33	114	6.1	12.34	67.1	0	0	0		
2003-Nov-22	7:34	82	5.2	11.21	70.0	0	0	0		
2003-Nov-22	7:34	78	5.1	10.90	72.6	0	0	0		
2003-Nov-22	7:35	82	5.1	10.79	75.1	0	0	0		
2003-Nov-22	7:35	78	5.1	10.88	77.7	0	0	0		
2003-Nov-22	7:36	82	5.1	11.00	80.2	0	0	0		
2003-Nov-22	7:36	82	5.1	11.12	82.8	0	0	0		
2003-Nov-22	7:37	82	5.0	11.13	85.3	0	0	0		
2003-Nov-22	7:37	82	5.0	11.14	87.8	0	0	0		
2003-Nov-22	7:38	78	5.0	11.19	90.3	0	0	0		
2003-Nov-22	7:38	78	5.0	11.21	92.9	0	0	0		
2003-Nov-22	7:39	78	5.0	11.31	95.4	0	0	0		
2003-Nov-22	7:40	78	5.0	11.24	97.9	0	0	0		
2003-Nov-22	7:40	78	5.0	11.06	100.4	0	0	0		
2003-Nov-22	7:41	78	5.0	11.18	102.9	0	0	0		
2003-Nov-22	7:41	78	5.0	11.26	105.4	0	0	0		
2003-Nov-22	7:42	78	5.0	11.15	107.9	0	0	0		
2003-Nov-22	7:42	78	5.0	11.31	110.4	0	0	0		
2003-Nov-22	7:43	78	5.0	11.31	112.9	0	0	0		
2003-Nov-22	7:43	78	5.0	11.24	115.4	0	0	0		
2003-Nov-22	7:44	82	5.0	11.24	117.9	0	0	0		
2003-Nov-22	7:44	78	5.0	11.17	120.4	0	0	0		
2003-Nov-22	7:45	78	5.0	11.11	122.9	0	0	0		
2003-Nov-22	7:45	78	5.0	11.21	125.4	0	0	0		
2003-Nov-22	7:46	73	5.1	11.31	127.9	0	0	0		

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Well		Field			Service Date		Customer		Job Number
KIRK #A-3					03326-Nov-22		OXY USA, INC.		2205544229
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	0	0	0	Message
	24 hr clock	psi	bb/min	lb/gal	bbbl	0	0	0	KCC
2003-Nov-22	7:46	73	5.1	11.26	130.4	0	0	0	MAR 09 2004
2003-Nov-22	7:47	73	5.0	11.18	132.9	0	0	0	
2003-Nov-22	7:47	73	5.0	11.10	133.7	0	0	0	CONFIDENTIAL
2003-Nov-22	7:47								Reset Total, Vol = 133.68 bbl
2003-Nov-22	7:47								End Lead Slurry
2003-Nov-22	7:47	73	5.1	11.22	134.7	0	0	0	
2003-Nov-22	7:47								Reset Total, Vol = 1.18 bbl
2003-Nov-22	7:47	73	5.1	11.30	134.9	0	0	0	
2003-Nov-22	7:47	73	5.0	11.37	0.2	0	0	0	
2003-Nov-22	7:47								Start Mixing Tail Slurry
2003-Nov-22	7:47	78	5.0	11.63	0.6	0	0	0	
2003-Nov-22	7:48	92	5.0	12.89	3.1	0	0	0	
2003-Nov-22	7:48	110	5.0	13.68	5.6	0	0	0	
2003-Nov-22	7:49	110	5.1	13.57	8.2	0	0	0	
2003-Nov-22	7:49	133	5.1	14.06	10.7	0	0	0	
2003-Nov-22	7:50	119	5.1	14.02	13.2	0	0	0	
2003-Nov-22	7:50	114	5.1	14.01	15.8	0	0	0	
2003-Nov-22	7:51	114	5.1	13.96	18.4	0	0	0	
2003-Nov-22	7:51	114	5.1	13.93	20.9	0	0	0	
2003-Nov-22	7:52	114	5.1	13.91	23.5	0	0	0	
2003-Nov-22	7:52	114	5.1	13.91	26.0	0	0	0	
2003-Nov-22	7:53	119	5.1	13.97	28.6	0	0	0	
2003-Nov-22	7:53	114	5.1	13.70	31.1	0	0	0	
2003-Nov-22	7:54	137	5.1	14.08	33.7	0	0	0	
2003-Nov-22	7:54	128	5.1	13.98	36.2	0	0	0	
2003-Nov-22	7:55	128	5.1	13.92	38.8	0	0	0	
2003-Nov-22	7:55	133	5.1	14.02	41.4	0	0	0	
2003-Nov-22	7:56	137	5.1	14.03	43.9	0	0	0	
2003-Nov-22	7:56	133	5.1	14.06	46.5	0	0	0	
2003-Nov-22	7:57	133	5.1	14.03	49.1	0	0	0	
2003-Nov-22	7:57	137	5.1	14.14	51.6	0	0	0	
2003-Nov-22	7:58	142	5.2	14.14	54.2	0	0	0	
2003-Nov-22	7:58	142	5.1	14.07	56.8	0	0	0	
2003-Nov-22	7:59	142	5.1	13.95	59.3	0	0	0	
2003-Nov-22	7:59	142	5.1	13.94	61.9	0	0	0	
2003-Nov-22	8:00	151	5.2	14.09	64.5	0	0	0	
2003-Nov-22	8:00	151	5.2	14.11	67.1	0	0	0	
2003-Nov-22	8:01	146	5.2	14.07	69.6	0	0	0	
2003-Nov-22	8:01	146	5.2	13.95	72.2	0	0	0	
2003-Nov-22	8:02	32	0.0	13.90	74.5	0	0	0	
2003-Nov-22	8:02	-14	0.0	13.85	74.5	0	0	0	
2003-Nov-22	8:02								End Tail Slurry
2003-Nov-22	8:02	-9	0.0	13.85	74.5	0	0	0	
2003-Nov-22	8:02								Reset Total, Vol = 74.48 bbl
2003-Nov-22	8:02	-14	0.0	13.82	0.0	0	0	0	
2003-Nov-22	8:03	-14	0.0	12.54	0.0	0	0	0	
2003-Nov-22	8:03	-5	0.0	11.95	0.0	0	0	0	
2003-Nov-22	8:04	55	2.9	10.69	0.0	0	0	0	
2003-Nov-22	8:04	119	5.2	12.22	0.0	0	0	0	
2003-Nov-22	8:05	169	5.7	1.42	0.0	0	0	0	
2003-Nov-22	8:05	188	5.3	8.99	0.0	0	0	0	
2003-Nov-22	8:06	197	5.3	8.61	0.0	0	0	0	
2003-Nov-22	8:06	-9	0.0	8.54	0.0	0	0	0	
2003-Nov-22	8:07	-9	0.0	8.54	0.0	0	0	0	

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Well		Field			Service Date	Customer			Job Number
KIRK #A-3					03326-Nov-22	OXY USA, INC.			2205544229
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0	
2003-Nov-22	8:07	-5	0.0	8.54	0.0	0	0	0	KCC
2003-Nov-22	8:08	-18	0.0	8.54	0.0	0	0	0	MAR 09 2004
2003-Nov-22	8:08	46	2.9	8.50	0.1	0	0	0	CONFIDENTIAL
2003-Nov-22	8:09	50	4.7	8.45	2.0	0	0	0	
2003-Nov-22	8:09	41	4.7	8.47	4.4	0	0	0	
2003-Nov-22	8:10	37	4.7	8.44	6.7	0	0	0	
2003-Nov-22	8:10	37	4.7	8.44	9.1	0	0	0	
2003-Nov-22	8:10								Drop Top Plug
2003-Nov-22	8:10	73	4.7	8.44	11.1	0	0	0	
2003-Nov-22	8:11								Start Displacement
2003-Nov-22	8:11	64	4.7	8.44	11.3	0	0	0	
2003-Nov-22	8:11	60	4.7	8.44	11.4	0	0	0	
2003-Nov-22	8:11	128	4.7	8.44	13.8	0	0	0	
2003-Nov-22	8:12	185	4.8	8.44	16.2	0	0	0	
2003-Nov-22	8:12	224	4.8	8.44	18.5	0	0	0	
2003-Nov-22	8:13	275	4.8	8.44	20.9	0	0	0	
2003-Nov-22	8:13	325	4.8	8.41	23.3	0	0	0	
2003-Nov-22	8:14	375	4.8	8.42	25.8	0	0	0	
2003-Nov-22	8:14	435	4.8	8.42	28.2	0	0	0	
2003-Nov-22	8:15	471	4.8	8.42	30.6	0	0	0	
2003-Nov-22	8:15	540	4.9	8.43	33.0	0	0	0	
2003-Nov-22	8:16	508	2.8	8.43	35.3	0	0	0	
2003-Nov-22	8:16	499	2.0	8.43	36.7	0	0	0	
2003-Nov-22	8:17	536	1.9	8.43	37.6	0	0	0	
2003-Nov-22	8:17	536	1.8	8.43	38.6	0	0	0	
2003-Nov-22	8:18	563	1.8	8.43	39.5	0	0	0	
2003-Nov-22	8:18	581	1.8	8.43	40.4	0	0	0	
2003-Nov-22	8:19	558	1.8	8.43	41.3	0	0	0	
2003-Nov-22	8:19	645	1.8	8.43	42.2	0	0	0	
2003-Nov-22	8:20	613	1.8	8.43	43.1	0	0	0	
2003-Nov-22	8:20	632	1.8	8.43	44.0	0	0	0	
2003-Nov-22	8:21	1131	0.0	8.43	44.7	0	0	0	
2003-Nov-22	8:21								Bump Top Plug
2003-Nov-22	8:21	1135	0.0	8.43	44.7	0	0	0	
2003-Nov-22	8:21								End Displacement
2003-Nov-22	8:21	1135	0.0	8.43	44.7	0	0	0	
2003-Nov-22	8:21	1135	0.0	8.43	44.7	0	0	0	
2003-Nov-22	8:21								Reset Total, Vol = 44.68 bbl
2003-Nov-22	8:21	1135	0.0	8.43	44.7	0	0	0	
2003-Nov-22	8:22	-18	0.0	8.43	0.0	0	0	0	
2003-Nov-22	8:22								End Job
2003-Nov-22	8:22	-14	0.0	8.43	0.0	0	0	0	

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Well KIRK #A-3		Field		Service Date 03326-Nov-22		Customer OXY USA, INC.		Job Number 2205544229	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbf/min	CMT DENS lb/gal	Volume bbl	0	0	0	Message
					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	207	0	25			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			1150		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	45	bbl		
%	187 bbl	45 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft			
Customer or Authorized Representative			Schlumberger Supervisor						
Rep, Company			Ahrends, Timothy			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

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Customer OXY USA, INC.						Job Number 2205544228					
Well KIRK A-3 KCC			Location (legal) SEC 30-T34S-R33W			Schlumberger Location Perryton, TX			Job Start 2003-Nov-19		
Field MAR 09 2004		Formation Name/Type 2004				Deviation °		Bit Size 12.3 in	Well MD 850 ft	Well TVD 850 ft	
County SEWARD CONFIDENTIAL		State/Province KANSAS				BHP 1000 psi	BHST 90 °F	BHCT 90 °F	Pore Press. Gradient psi/ft		
Well Master: 0630081381		API / UWI:				Casing/Liner					
Rig Name		Drilled For Oil & Gas		Service Via Land		Depth, ft 850	Size, in 8.625	Weight, lb/ft 24	Grade K55	Thread 8RD	
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe					
Drilling Fluid Type		Max. Density lb/gal		Plastic Vi: cp		Depth,	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing		Job Type Cem Surface Casing				Perforations/Open Hole					
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	
Service Instructions CEMENT 8 5/8 IN SURFACE CASING WITH: 200 SKS (PANHANDLE LITE CLASS C) + 0.2% D46 + 0.25 PPS D29 100 SKS CLASS C + 2% S001 + 0.25 PPS D29						Treat Down Casing	Displacement 52.7 bbl	Packer Type None	Packer Depth 0 ft		
						Tubing Vol. bbl	Casing Vol. 55 bbl	Annular Vol. 107 bbl	Open Hole Vol. 162 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: 130 psi						Shoe Type: None		Squeeze Type			
Pipe Rotated <input type="checkbox"/>						Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: 850 ft			Tool Type:
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 0		Stage Tool Type:			Tool Depth: ft		
Cement Head Type: Single						Stage Tool Depth: ft			Tail Pipe Size: in		
Job Scheduled For:		Arrived on Location: 2003-Nov-18 22:00		Leave Location: 2003-Nov-19 4:30		Collar Type: None			Tail Pipe Depth: ft		
						Collar Depth: ft			Sqz Total Vol: bbl		
Date	Time	Treating Pressure 24 hr clock psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	0	0	0	Message		
2003-Nov-19	2:33	0	0.0	0.0	8.43	0	0	0			
2003-Nov-19	2:33								Start Job		
2003-Nov-19	2:33	-5	0.0	0.0	8.43	0	0	0			
2003-Nov-19	2:33	-5	0.0	0.0	8.43	0	0	0			
2003-Nov-19	2:33								Pressure Test Lines		
2003-Nov-19	2:34	-5	0.0	0.0	8.43	0	0	0			
2003-Nov-19	2:35	50	0.0	0.0	8.47	0	0	0			
2003-Nov-19	2:36	256	0.0	0.1	8.45	0	0	0			
2003-Nov-19	2:37	1859	0.0	0.1	8.44	0	0	0			
2003-Nov-19	2:37	14	0.0	0.1	8.44	0	0	0			
2003-Nov-19	2:38	46	2.9	0.6	8.38	0	0	0			
2003-Nov-19	2:39								Pressure Test Lines		
2003-Nov-19	2:39	46	2.9	1.3	8.36	0	0	0			
2003-Nov-19	2:39	46	2.9	1.4	8.36	0	0	0			
2003-Nov-19	2:39								Start Pumping Spacer		
2003-Nov-19	2:39								Reset Total, Vol = 1.53 bbl		
2003-Nov-19	2:39	50	2.9	1.5	8.35	0	0	0			
2003-Nov-19	2:39	96	4.2	1.6	8.34	0	0	0			
2003-Nov-19	2:40	133	4.8	5.5	8.38	0	0	0			
2003-Nov-19	2:41	137	4.8	8.6	8.41	0	0	0			
2003-Nov-19	2:41								Start Cement Slurry		
2003-Nov-19	2:41	137	4.8	8.7	8.46	0	0	0			

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Well		Field				Service Date		Customer		Job Number
KIRK #A-3						03323-Nov-19		OXY USA, INC.		2205544228
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	0	0	0		
2003-Nov-19	2:41								End Spacer	
2003-Nov-19	2:41	142	4.8	9.5	8.89	0	0	0		
2003-Nov-19	2:41								Reset Total, Vol = 9.68 bbl	
2003-Nov-19	2:41	142	4.9	9.7	8.96	0	0	0		
2003-Nov-19	2:42	146	4.9	4.0	10.28	0	0	0		
2003-Nov-19	2:42	142	4.9	8.1	11.56	0	0	0		
2003-Nov-19	2:43	137	5.0	12.2	11.47	0	0	0		
2003-Nov-19	2:44	137	5.0	16.4	11.54	0	0	0		
2003-Nov-19	2:45	133	5.1	20.6	11.45	0	0	0		
2003-Nov-19	2:46	133	5.1	24.9	11.69	0	0	0		
2003-Nov-19	2:47	124	5.1	29.1	11.31	0	0	0		
2003-Nov-19	2:47	124	5.1	33.4	12.21	0	0	0		
2003-Nov-19	2:48	119	5.1	37.6	11.45	0	0	0		
2003-Nov-19	2:49	105	5.1	41.9	11.56	0	0	0		
2003-Nov-19	2:50	96	5.2	46.2	11.79	0	0	0		
2003-Nov-19	2:51	92	5.2	50.5	11.58	0	0	0		
2003-Nov-19	2:52	96	5.2	54.9	11.51	0	0	0		
2003-Nov-19	2:52	101	5.2	59.2	11.48	0	0	0		
2003-Nov-19	2:53	101	5.2	63.6	11.79	0	0	0		
2003-Nov-19	2:54	101	5.3	68.0	11.19	0	0	0		
2003-Nov-19	2:55	105	5.3	72.4	12.01	0	0	0		
2003-Nov-19	2:56	101	5.3	76.9	11.95	0	0	0		
2003-Nov-19	2:57	96	5.3	81.3	11.50	0	0	0		
2003-Nov-19	2:57	96	5.3	85.7	11.76	0	0	0		
2003-Nov-19	2:58	96	5.4	90.1	11.52	0	0	0		
2003-Nov-19	2:59	101	5.4	94.6	11.59	0	0	0		
2003-Nov-19	3:00	96	5.3	99.1	11.16	0	0	0		
2003-Nov-19	3:01	96	5.3	103.5	11.56	0	0	0		
2003-Nov-19	3:02	96	5.3	107.9	11.76	0	0	0		
2003-Nov-19	3:02	105	5.4	112.4	11.92	0	0	0		
2003-Nov-19	3:03	101	5.4	116.9	11.86	0	0	0		
2003-Nov-19	3:04	110	5.4	121.4	11.53	0	0	0		
2003-Nov-19	3:05	105	5.4	125.9	11.87	0	0	0		
2003-Nov-19	3:06	96	5.3	130.4	12.23	0	0	0		
2003-Nov-19	3:07	92	5.3	134.8	10.90	0	0	0		
2003-Nov-19	3:07								End Cement Slurry	
2003-Nov-19	3:07	92	5.3	135.0	10.82	0	0	0		
2003-Nov-19	3:07								Start Mixing Tail Slurry	
2003-Nov-19	3:07	92	5.3	136.1	12.18	0	0	0		
2003-Nov-19	3:07								Reset Total, Vol = 136.13 bbl	
2003-Nov-19	3:08	133	5.3	3.1	15.08	0	0	0		
2003-Nov-19	3:08	114	5.4	7.6	16.97	0	0	0		
2003-Nov-19	3:09	110	5.4	12.1	13.59	0	0	0		
2003-Nov-19	3:10	137	5.4	16.6	15.43	0	0	0		
2003-Nov-19	3:11	133	5.4	21.1	14.99	0	0	0		
2003-Nov-19	3:12	-14	0.0	24.4	14.76	0	0	0		
2003-Nov-19	3:13	-18	0.0	24.4	9.60	0	0	0		
2003-Nov-19	3:13	-18	0.0	24.4	9.46	0	0	0		
2003-Nov-19	3:14	-18	0.0	24.4	9.37	0	0	0		
2003-Nov-19	3:15	-14	0.0	24.4	9.15	0	0	0		
2003-Nov-19	3:16	-18	0.0	24.4	9.18	0	0	0		
2003-Nov-19	3:17	-14	0.0	24.4	9.21	0	0	0		
2003-Nov-19	3:18	-14	0.0	24.4	9.21	0	0	0		
2003-Nov-19	3:18	41	0.0	24.4	9.23	0	0	0		

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KIRK #A-3

Well		Service Date				Customer			Job Number
KIRK #A-3		03323-Nov-19				OXY USA, INC.			2205544228
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	psi	bbf/min	bbf	lb/gal	0	0	0	
2003-Nov-19	3:18								End Tail Slurry
2003-Nov-19	3:18	41	0.0	24.4	9.24	0	0	0	
2003-Nov-19	3:18								Reset Total, Vol = 24.43 bbl
2003-Nov-19	3:18	41	0.0	0.0	9.24	0	0	0	
2003-Nov-19	3:18								Drop Top Plug
2003-Nov-19	3:18								Start Displacement
2003-Nov-19	3:18	41	0.0	0.0	9.24	0	0	0	
2003-Nov-19	3:18	41	1.7	0.0	9.25	0	0	0	
2003-Nov-19	3:19	41	2.9	2.5	9.22	0	0	0	
2003-Nov-19	3:20	37	2.9	4.9	8.44	0	0	0	
2003-Nov-19	3:21	37	4.4	8.0	8.55	0	0	0	
2003-Nov-19	3:22	41	4.9	17.9	8.44	0	0	0	
2003-Nov-19	3:23	46	4.9	22.0	8.43	0	0	0	
2003-Nov-19	3:23	55	4.9	26.1	8.44	0	0	0	
2003-Nov-19	3:24	60	4.9	30.2	8.44	0	0	0	
2003-Nov-19	3:25	82	4.9	34.2	8.44	0	0	0	
2003-Nov-19	3:26	105	4.9	38.3	8.44	0	0	0	
2003-Nov-19	3:27	78	3.0	40.8	8.44	0	0	0	
2003-Nov-19	3:28	82	1.7	43.3	8.44	0	0	0	
2003-Nov-19	3:28	82	1.7	44.8	8.44	0	0	0	
2003-Nov-19	3:29	105	1.7	46.2	8.44	0	0	0	
2003-Nov-19	3:30	119	1.7	47.6	8.44	0	0	0	
2003-Nov-19	3:31	114	1.7	49.0	8.44	0	0	0	
2003-Nov-19	3:32	137	1.7	50.4	8.44	0	0	0	
2003-Nov-19	3:33	146	1.7	51.8	8.44	0	0	0	
2003-Nov-19	3:33	366	0.0	52.1	8.43	0	0	0	
2003-Nov-19	3:33								Bump Top Plug
2003-Nov-19	3:33	366	0.0	52.1	8.43	0	0	0	
2003-Nov-19	3:33								End Displacement
2003-Nov-19	3:33	366	0.0	52.1	8.43	0	0	0	
2003-Nov-19	3:34	357	0.0	52.1	8.42	0	0	0	
2003-Nov-19	3:35	302	0.0	52.1	8.42	0	0	0	
2003-Nov-19	3:36								End Job
2003-Nov-19	3:36	-9	0.0	52.1	8.42	0	0	0	
2003-Nov-19	3:48								

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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	132	0	10	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Volume	Density		
1000		100	366				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume	
%	132 bbl	52.7 bbl	°F	<input checked="" type="checkbox"/>		70 bbl	
Customer or Authorized Representative		Schlumberger Supervisor		Washed Thru Perfs		To	
Rep, Company		Gonzales, Paul		<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	

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