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JUN - 9 2005

KCC WICHITA

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: NA
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling LP
License: 33375
Wellsite Geologist: NA

Designate Type of Completion:
[X] New Well Re-Entry Workover
Oil SWD SLOW [X] 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
Commingle Docket No.
Dual Completion Docket No.
Other (SWD or Enhr.?) Docket No.
02/15/05 02/18/05 05/03/05
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 081-21571-0000
County: Haskell
NE - NE - SW - NW Sec 5 Twp. 29 S. R. 33W
1420 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: Watkins A Well #: 3
Field Name: Panoma Council Grove
Producing Formation: Council Grove
Elevation: Ground: 2956 Kelly Bushing: 2962
Total Depth: 3152 Plug Back Total Depth: 3108
Amount of Surface Pipe Set and Cemented at 786 feet
Multiple Stage Cementing Collar Used? [] Yes [X] No
If yes, show depth set
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

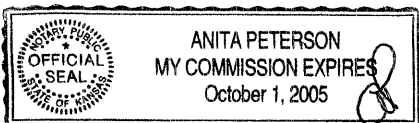
Drilling Fluid Management Plan ALT I with 4-19-07
(Data must be collected from the Reserve Pit)
Chloride content 17500 mg/l ppm Fluid volume 900 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp, S. R. [] East [X] 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 8, 2005
Subscribed and sworn to before me this 8th 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



Operator Name: OXY USA Inc. Lease Name: Watkins A Well #: 3
 Sec. 5 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Induction Neutron Sonic TracerScan	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Hollenberg</td> <td>2596</td> <td>366</td> </tr> <tr> <td>Herington</td> <td>2631</td> <td>331</td> </tr> <tr> <td>Krider</td> <td>2653</td> <td>309</td> </tr> <tr> <td>Winfield</td> <td>2697</td> <td>265</td> </tr> <tr> <td>Towanda</td> <td>2761</td> <td>201</td> </tr> <tr> <td>Ft. Riley</td> <td>2818</td> <td>144</td> </tr> <tr> <td>Matfield</td> <td>2888</td> <td>74</td> </tr> <tr> <td>Wreford</td> <td>2904</td> <td>58</td> </tr> <tr> <td>Council Grove</td> <td>2928</td> <td>34</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Hollenberg	2596	366	Herington	2631	331	Krider	2653	309	Winfield	2697	265	Towanda	2761	201	Ft. Riley	2818	144	Matfield	2888	74	Wreford	2904	58	Council Grove	2928	34
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Council Grove	2928	34																																

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	786	C	235	35/65 Poz C + Additives
					C	200	Class C + Additives
Production	7 7/8	4 1/2	10.5	3151	C	190	Class C + Additives
					H	200	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	2928-2943	10,999 gls Clearfrac LT gel @ 75%N2, 65,000# 16/30 Sand	

TUBING RECORD	Size 2 3/8	Set At 2977	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. TA'd	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) Well TA'd
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Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
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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) _____

Customer OXY USA, INC.						Job Number 2205547722									
Well WATKINS 'A' 3			Location (legal) Sec 5-T29S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Feb-16						
Field PANOMA		Formation Name/Type			Deviation		Bit Size 12.3 in	Well MD 787 ft	Well TVD 787 ft						
County Haskell		State/Province Kansas			BHP psi	BHST 87 °F	BHCT °F	Pore Press. Gradient psi/ft							
Well Master: 0630666373		API / UWI: 15081215710000			Casing/Liner										
Rig Name CHEYENNE 8		Drilled For Gas		Service Via Land		Depth, ft 777	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 9.3 lb/gal		Plastic Viscosity 33 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" 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 235 SK 35:65 POZ C + 6% D020 + 2% S001 + 0.5 pps D029 195 SK CLASS C + 2% S001 + 0.25 pps D029						Diameter in	Treat Down Casing	Displacement 47.6 bbl	Packer Type	Packer Depth ft					
						Tubing Vol. bbl	Casing Vol. 50 bbl	Annular Vol. 58 bbl	Open Hole Vol. 108 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: 230 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: 746.57 ft		Tool Type:							
Cement Head Type: Single						Stage Tool Type:		Tool Depth: ft							
Job Scheduled For:		Arrived on Location: 2005-Feb-15 23:00		Leave Location: 2005-Feb-16 4:45		Stage Tool Depth: ft		Tail Pipe Size: in							
						Collar Type:		Tail Pipe Depth: ft							
						Collar Depth: ft		Sqz Total Vol: bbl							
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message						
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0							
2005-Feb-16	3:02	-3750	8.36	0.0	0.0	0	0	0							
2005-Feb-16	3:02					0	0	0							
2005-Feb-16	3:02	-3750	8.36	0.0	0.0	0	0	0	Start Job						
2005-Feb-16	3:02					0	0	0	Pressure Test Lines						
2005-Feb-16	3:02					0	0	0	Start Pumping Spacer						
2005-Feb-16	3:02	-3750	8.36	0.0	0.0	0	0	0	RECEIVED						
2005-Feb-16	3:03	0	8.36	0.0	0.0	0	0	0	JUN - 9 2005						
2005-Feb-16	3:04	5	8.36	0.0	0.0	0	0	0	KCC WICHITA						
2005-Feb-16	3:05	5	8.36	0.0	0.0	0	0	0	Reset Total, Vol = 0.04 bbl						
2005-Feb-16	3:05	5	8.36	0.0	0.0	0	0	0							
2005-Feb-16	3:06	5	8.35	5.6	1.4	0	0	0							
2005-Feb-16	3:07	5	8.35	5.8	7.2	0	0	0							
2005-Feb-16	3:08					0	0	0	End Spacer						
2005-Feb-16	3:08	0	9.39	6.0	10.7	0	0	0	Reset Total, Vol = 10.81 bbl						
2005-Feb-16	3:08	0	9.42	6.0	10.8	0	0	0							
2005-Feb-16	3:08	0	9.48	6.0	0.2	0	0	0	KCC						
2005-Feb-16	3:08					0	0	0	Start Mixing Lead Slurry						
2005-Feb-16	3:08	5	10.06	6.1	2.3	0	0	0	JUN 09 2005						
2005-Feb-16	3:09	0	12.05	6.2	8.4	0	0	0							

Well		Field			Service Date		Customer		Job Number
WATKINS 'A' #3		PANOMA			0547-Feb-16		OXY USA, INC.		2205547722
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2005-Feb-16	3:10	0	12.40	6.2	14.6	0	0	0	
2005-Feb-16	3:11	0	12.46	6.3	20.9	0	0	0	
2005-Feb-16	3:12	0	12.35	5.9	27.2	0	0	0	
2005-Feb-16	3:13	0	12.24	5.9	33.0	0	0	0	
2005-Feb-16	3:14	0	12.21	5.9	38.9	0	0	0	
2005-Feb-16	3:15	0	12.17	5.9	44.8	0	0	0	
2005-Feb-16	3:16	5	12.34	6.0	50.7	0	0	0	
2005-Feb-16	3:17	0	12.40	6.0	56.6	0	0	0	
2005-Feb-16	3:18	0	12.40	6.0	62.7	0	0	0	
2005-Feb-16	3:19	0	12.36	6.0	68.6	0	0	0	
2005-Feb-16	3:20	0	12.36	6.0	74.6	0	0	0	
2005-Feb-16	3:21	0	12.31	6.0	80.6	0	0	0	
2005-Feb-16	3:22								End Lead Slurry
2005-Feb-16	3:22	0	12.35	6.0	84.6	0	0	0	
2005-Feb-16	3:22								Reset Total, Vol = 84.67 bbl
2005-Feb-16	3:22	0	12.42	6.0	84.7	0	0	0	
2005-Feb-16	3:22								Start Mixing Tail Slurry
2005-Feb-16	3:22	0	12.57	6.0	0.3	0	0	0	
2005-Feb-16	3:22	5	12.99	6.0	2.0	0	0	0	
2005-Feb-16	3:23	5	13.84	6.1	8.1	0	0	0	
2005-Feb-16	3:24	0	13.62	5.2	13.4	0	0	0	
2005-Feb-16	3:25	5	14.91	5.2	18.7	0	0	0	
2005-Feb-16	3:26	0	14.68	5.3	24.1	0	0	0	
2005-Feb-16	3:27	5	14.97	5.3	29.3	0	0	0	
2005-Feb-16	3:28	5	14.88	5.5	34.9	0	0	0	
2005-Feb-16	3:29	5	14.91	5.6	40.5	0	0	0	
2005-Feb-16	3:30	0	14.91	6.0	46.1	0	0	0	
2005-Feb-16	3:31	5	15.20	5.6	51.9	0	0	0	
2005-Feb-16	3:32	5	14.91	0.2	54.5	0	0	0	
2005-Feb-16	3:32								End Tail Slurry
2005-Feb-16	3:32	5	14.81	0.0	54.5	0	0	0	
2005-Feb-16	3:32								Reset Total, Vol = 54.47 bbl
2005-Feb-16	3:32	5	14.56	0.0	0.0	0	0	0	
2005-Feb-16	3:32								Drop Top Plug
2005-Feb-16	3:32								Start Displacement
2005-Feb-16	3:32	0	14.43	0.0	0.0	0	0	0	
2005-Feb-16	3:32	5	14.22	0.0	0.0	0	0	0	
2005-Feb-16	3:33	5	11.78	0.0	0.0	0	0	0	
2005-Feb-16	3:34	0	10.31	0.0	0.0	0	0	0	
2005-Feb-16	3:35	5	9.89	0.0	0.0	0	0	0	
2005-Feb-16	3:36	5	9.73	0.0	0.0	0	0	0	
2005-Feb-16	3:37	0	8.91	0.0	0.0	0	0	0	
2005-Feb-16	3:38	5	8.90	0.0	0.0	0	0	0	
2005-Feb-16	3:39	0	8.90	0.0	0.0	0	0	0	
2005-Feb-16	3:40	0	8.96	4.4	3.1	0	0	0	
2005-Feb-16	3:41	0	8.37	5.0	7.7	0	0	0	
2005-Feb-16	3:42	0	8.41	5.1	12.8	0	0	0	
2005-Feb-16	3:43	0	8.36	5.1	17.9	0	0	0	
2005-Feb-16	3:44	5	8.36	5.2	23.0	0	0	0	
2005-Feb-16	3:45	5	8.36	5.2	28.2	0	0	0	
2005-Feb-16	3:46	5	8.36	5.2	33.4	0	0	0	
2005-Feb-16	3:47	5	8.36	2.1	38.0	0	0	0	
2005-Feb-16	3:48	5	8.36	2.1	40.1	0	0	0	
2005-Feb-16	3:49	5	8.36	2.1	42.2	0	0	0	

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Well		Field			Service Date		Customer		Job Number	
WATKINS 'A' #3		PANOMA			0547-Feb-16		OXY USA, INC.		2205547722	
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbf/min	bbf	0	0	0		
2005-Feb-16	3:50	0	8.36	2.1	44.4	0	0	0		
2005-Feb-16	3:51	0	8.36	0.0	46.2	0	0	0		
2005-Feb-16	3:52	5	8.36	0.0	46.2	0	0	0		
2005-Feb-16	3:53	0	8.36	0.0	46.2	0	0	0		
2005-Feb-16	3:53								Bump Top Plug	
2005-Feb-16	3:53	0	8.36	0.0	46.2	0	0	0		
2005-Feb-16	3:53								End Displacement	
2005-Feb-16	3:53	0	8.36	0.0	46.2	0	0	0		
2005-Feb-16	3:53								Reset Total, Vol = 46.22 bbl	
2005-Feb-16	3:53								End Job	
2005-Feb-16	3:53	5	8.36	0.0	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			
5.5			6	139	0	10				
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density				
502		140	502		bbf	8.34 lb/gal				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	45 bbl				
%	139 bbl	47.6 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft				
Customer or Authorized Representative			Schlumberger Supervisor							
Fillpot, Greg			Tan, Naveen			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		

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Date	2/15/2005
Company	Oxy USA Inc.
Job Number	2205547722
Well Name	Watkins
Well Number	A-3
County	Haskell
State	Kansas

Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	790	
Shoe Length	43.43	
Insert Depth	746.57	
Hole Size	12 1/4	
Hole Depth	787	

Lead	
235 sacks	35:65 Poz C
2.19 yield	D20,S1,D29
12.2 weight	
12.4 water	69.4
cubic ft.	515
height	1247
bbls	91.7

108	Pipe Volume	50
	Annular Volume	58
	Total Cement	138
	Total Water	146

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 325
Cement lift 230

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

Test 2000 psi

Mud

10 Spacer

92 Lead 12.2

47 Tail 14.8

47.6 Displacement

2000 Maximum Pressure

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

Pump time @ 4 BPM

46 MIN

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Cementing Service Report

Customer OXY USA, INC.						Job Number 2205547745				
Well WATKINS 'A' 3			Location (legal) Sec 5-T29S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Feb-19	
Field		Formation Name/Type		Deviation		Bit Size 7.88 in		Well MD 3,152 ft		Well TVD 3,152 ft
County Haskell		State/Province Kansas		BHP psi		BHST 111 °F		BHCT °F		Pore Press. Gradient psi/ft
Well Master: 0630666373		API / UWI:		Casing/Liner						
Rig Name CHEYENNE 8		Drilled For Gas		Service Via Land		Depth, ft 3147	Size, in 4.5	Weight, lb/ft 11.6	Grade	Thread
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe				
Drilling Fluid Type Bentonite		Max. Density 9.3 lb/gal		Plastic Viscosity 33 cp		Depth,	Size, in	Weight, lb/ft	Grade	Thread
Service Line Cementing		Job Type Cem Prod Casing		Perforations/Open Hole						
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 4 1/2" H & SM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
Service Instructions CEMENT PROD 4 1/2" CASING: 20 BBLs CW100 190 SKS CLASS C + 3% D079 + 0.2 % D046 + 0.25 PPS D029 200 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPSD42+5 PPS D53+0.6 %D112+ 0.25 %D65 + 0.25%D46 DISPLACE WITH FRESH WATER						Treat Down Casing	Displacement 49.5 bbl	Packer Type	Packer Depth ft	
						Tubing Vol. bbl	Casing Vol. 50 bbl	Annular Vol. 128 bbl	Open Hole Vol 178 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: 500 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Auto-Fill		Squeeze Type		
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 1		Shoe Depth: 3113.9 ft		Tool Type:		
Cement Head Type: Single		Stage Tool Type:		Tool Depth: ft		Stage Tool Depth: ft		Tail Pipe Size: in		
Job Scheduled For: 2005-Feb-19 1:00		Arrived on Location: 2005-Feb-19 4:20		Leave Location:		Coilart Type:		Tail Pipe Depth: ft		
						Coilart Depth: ft		Sqz Total Vol: bbl		
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0		
2005-Feb-19	2:23	0	8.38	0.0	0.0	0	0	0		
2005-Feb-19	2:23								Start Job	
2005-Feb-19	2:23	0	8.38	0.0	0.0	0	0	0	Pressure Test Lines	
2005-Feb-19	2:23								Start Pumping Wash	
2005-Feb-19	2:23	5	8.38	0.0	0.0	0	0	0		
2005-Feb-19	2:24	0	8.34	0.0	0.0	0	0	0		
2005-Feb-19	2:25	0	8.35	0.0	0.0	0	0	0		
2005-Feb-19	2:26	0	8.36	0.0	0.0	0	0	0		
2005-Feb-19	2:27	0	8.36	0.0	0.2	0	0	0		
2005-Feb-19	2:28	0	8.36	0.0	0.2	0	0	0		
2005-Feb-19	2:29	0	8.37	5.3	2.4	0	0	0		
2005-Feb-19	2:30	0	8.37	5.5	7.7	0	0	0		
2005-Feb-19	2:31	0	8.37	5.7	13.3	0	0	0		
2005-Feb-19	2:32	0	8.37	5.7	19.0	0	0	0		
2005-Feb-19	2:33								End Wash	
2005-Feb-19	2:33	0	8.61	4.7	20.7	0	0	0	Reset Total, Vol = 20.90 bbl	
2005-Feb-19	2:33	0	8.69	5.3	20.9	0	0	0		
2005-Feb-19	2:33	0	8.73	5.6	0.1	0	0	0		
2005-Feb-19	2:33	0	8.80	5.7	0.3	0	0	0		

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Well		Field		Service Date		Customer			Job Number
WATKINS 'A' #3				0550-Feb-19		OXY USA, INC.			2205547745
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2005-Feb-19	2:33								Start Mixing Lead Slurry
2005-Feb-19	2:34	0	10.34	5.5	5.8	0	0	0	
2005-Feb-19	2:35	0	11.53	5.5	11.2	0	0	0	
2005-Feb-19	2:36	0	11.37	5.1	16.4	0	0	0	
2005-Feb-19	2:37	0	10.95	5.4	21.7	0	0	0	
2005-Feb-19	2:38	0	10.88	5.4	27.1	0	0	0	
2005-Feb-19	2:39	0	10.98	5.5	32.6	0	0	0	
2005-Feb-19	2:40	0	11.26	5.4	38.0	0	0	0	
2005-Feb-19	2:41	0	11.40	5.5	43.5	0	0	0	
2005-Feb-19	2:42	0	11.24	5.5	49.0	0	0	0	
2005-Feb-19	2:43	0	11.02	5.5	54.5	0	0	0	
2005-Feb-19	2:44	0	11.18	5.5	60.1	0	0	0	
2005-Feb-19	2:45	5	11.24	5.5	65.7	0	0	0	
2005-Feb-19	2:46	0	11.18	5.6	71.2	0	0	0	
2005-Feb-19	2:47	0	11.12	5.6	76.8	0	0	0	
2005-Feb-19	2:48	0	11.08	5.6	82.4	0	0	0	
2005-Feb-19	2:49	5	11.04	5.6	88.0	0	0	0	
2005-Feb-19	2:50	0	11.18	5.6	93.6	0	0	0	
2005-Feb-19	2:51	0	11.28	5.6	99.2	0	0	0	
2005-Feb-19	2:52								Reset Total, Vol = 104.29 bbl
2005-Feb-19	2:52	0	11.40	5.6	104.3	0	0	0	
2005-Feb-19	2:52	0	11.56	5.6	0.5	0	0	0	
2005-Feb-19	2:52	0	11.76	5.6	0.9	0	0	0	
2005-Feb-19	2:52								End Lead Slurry
2005-Feb-19	2:52	0	11.83	5.6	1.1	0	0	0	
2005-Feb-19	2:52								Reset Total, Vol = 1.12 bbl
2005-Feb-19	2:52	5	11.91	5.6	0.2	0	0	0	
2005-Feb-19	2:52								Start Mixing Tail Slurry
2005-Feb-19	2:53	0	14.00	5.6	4.9	0	0	0	
2005-Feb-19	2:54	5	14.15	5.6	10.6	0	0	0	
2005-Feb-19	2:55	0	13.93	5.6	16.3	0	0	0	
2005-Feb-19	2:56	0	13.91	5.6	22.0	0	0	0	
2005-Feb-19	2:57	0	14.04	5.7	27.7	0	0	0	
2005-Feb-19	2:58	0	14.11	5.7	33.4	0	0	0	
2005-Feb-19	2:59	0	13.99	5.7	39.1	0	0	0	
2005-Feb-19	3:00	0	13.82	5.6	44.8	0	0	0	
2005-Feb-19	3:01	0	13.93	5.2	50.3	0	0	0	
2005-Feb-19	3:02	0	14.58	5.2	55.5	0	0	0	
2005-Feb-19	3:02								End Tail Slurry
2005-Feb-19	3:02	0	14.45	0.0	57.9	0	0	0	
2005-Feb-19	3:02	0	14.28	0.0	57.9	0	0	0	
2005-Feb-19	3:02								Reset Total, Vol = 57.88 bbl
2005-Feb-19	3:03								Drop Top Plug
2005-Feb-19	3:03	0	14.07	0.0	0.0	0	0	0	
2005-Feb-19	3:03								Start Displacement
2005-Feb-19	3:03	5	14.03	0.0	0.0	0	0	0	
2005-Feb-19	3:03	0	11.98	0.0	0.0	0	0	0	
2005-Feb-19	3:04	0	8.41	0.0	0.0	0	0	0	
2005-Feb-19	3:05	0	8.90	5.3	0.0	0	0	0	
2005-Feb-19	3:06	0	8.48	5.4	0.0	0	0	0	
2005-Feb-19	3:07	5	8.41	0.0	0.0	0	0	0	
2005-Feb-19	3:08	0	8.38	5.3	3.2	0	0	0	
2005-Feb-19	3:09	5	8.37	5.4	8.6	0	0	0	
2005-Feb-19	3:10	0	8.37	5.3	13.9	0	0	0	

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Well		Field		Service Date		Customer		Job Number	
WATKINS 'A' #3				0550-Feb-19		OXY USA, INC.		2205547745	
Date	Time	Annulus	Density	Rate	Volume				Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2005-Feb-19	3:11	0	8.37	5.4	19.2	0	0	0	
2005-Feb-19	3:12	0	8.37	5.4	24.6	0	0	0	
2005-Feb-19	3:13	0	8.37	5.4	30.0	0	0	0	
2005-Feb-19	3:14	0	8.37	5.5	35.5	0	0	0	
2005-Feb-19	3:15	0	8.37	3.9	40.9	0	0	0	
2005-Feb-19	3:16	5	8.37	2.0	43.1	0	0	0	
2005-Feb-19	3:17	0	8.37	1.9	45.0	0	0	0	
2005-Feb-19	3:18	0	8.37	1.9	47.0	0	0	0	
2005-Feb-19	3:19	0	8.37	1.9	48.9	0	0	0	
2005-Feb-19	3:20	0	8.37	0.0	49.1	0	0	0	
2005-Feb-19	3:20								Bump Top Plug
2005-Feb-19	3:20	0	8.37	0.0	49.1	0	0	0	
2005-Feb-19	3:20								End Displacement
2005-Feb-19	3:20	0	8.37	0.0	49.1	0	0	0	
2005-Feb-19	3:21								Reset Total, Vol = 49.15 bbl
2005-Feb-19	3:21	0	8.37	0.0	49.1	0	0	0	
2005-Feb-19	3:21	0	8.37	0.0	0.0	0	0	0	
2005-Feb-19	3:21								End Job
2005-Feb-19	3:21								Stopped Acquisition
2005-Feb-19	3:21	0	8.37	0.0	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		
4.5	0	0	6	167	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1000		180	1000			8.34 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume bbl <input type="checkbox"/> Washed Thru Perfs To ft					
%	167 bbl	49.5 bbl	°F						
Customer or Authorized Representative			Schlumberger Supervisor			Tan, Naveen		<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed	
Fillpot, Greg									

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Date	2/17/2005
Company	Oxy USA Inc.
Job Number	2205547745
Well Name	Watkins
Well Number	A-3
County	Haskell
State	KS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	3157	0
Shoe Length	43.09	
Insert Depth	3113.91	
Hole Size	7 7/8	
Hole Depth	3152	

Lead	
190 sacks	Class C
3.3 yield	D79,D46,D29
11 weight	
20.3 water	92
cubic ft.	627
height	2752
bbls	112

Pipe Volume	50
178 Annular Volume	128
Total Cement	167
Total Water	175

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

Tail	
200 sacks	50/50 POZ
1.55 yield	D46,D42,M117,D20,D65,D112,D53
13.8 weight	
7.1 water	34
cubic ft.	310
height	1361
bbls	55.2

Casing lift	2084
Cement lift	818

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

Test 2000 psi

Mud

20 Spacer CW100

112 Lead 11

55 Tail 13.8

49.5 Displacement

2000 Maximum Pressure

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

Pump time @ 4 BPM 54 MIN

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