

CONFIDENTIAL

KCC

JUL 18 2005

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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: UGGS  
Operator Contact Person: Greg Rowe  
Phone: (620) 629-4200  
Contractor: Name: Chevenne Drilling, LP  
License: 33375  
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: \_\_\_\_\_  
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. \_\_\_\_\_  
03/28/05 03/30/05 06/15/05  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 067-21606-0000  
County: Grant  
NE - NE - SW - SW Sec 3 Twp. 29 S. R. 36W  
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: English F Well #: 5  
Field Name: Panoma  
Producing Formation: Council Grove  
Elevation: Ground: 3047 Kelly Bushing: 3052  
Total Depth: 3156 Plug Back Total Depth: 3112  
Amount of Surface Pipe Set and Cemented at 740 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.

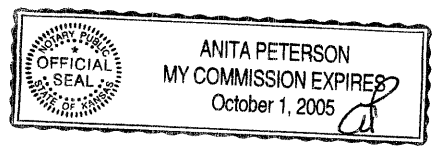
Drilling Fluid Management Plan ALTIWYM  
(Data must be collected from the Reserve Pit) 4-19-07  
Chloride content 35000 mg/l ppm Fluid volume 900 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp, \_\_\_\_\_ S. R.  East  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: Viola Jander  
Title: Capital Project Date July 18, 2005  
Subscribed and sworn to before me this 18 day of July  
20 05  
Notary Public: Anita Peterson  
Date Commission Expires: Oct 1, 2005

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



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X

Operator Name: OXY USA Inc. Lease Name: English F Well #: 5  
 Sec. 3 Twp. 29 S. R. 36W  East  West County: Grant

**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:      Neutron                  CBL	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/> Log</td> <td style="width:70%;">Formation (Top), Depth and Datum</td> <td style="width:20%;"><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Chase</td> <td>2498</td> <td>554</td> </tr> <tr> <td>Krider</td> <td>2520</td> <td>532</td> </tr> <tr> <td>Winfield</td> <td>2568</td> <td>484</td> </tr> <tr> <td>Towanda</td> <td>2624</td> <td>428</td> </tr> <tr> <td>Ft. Riley</td> <td>2680</td> <td>372</td> </tr> <tr> <td>Wreford</td> <td>2776</td> <td>276</td> </tr> <tr> <td>Council Grove</td> <td>2800</td> <td>252</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Chase	2498	554	Krider	2520	532	Winfield	2568	484	Towanda	2624	428	Ft. Riley	2680	372	Wreford	2776	276	Council Grove	2800	252
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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	738	C	175	35/65 Poz + Additives
					C	195	Class C + Additives
Production	7 7/8	4 1/2	10.5	3155	H	455	Prem + Additives
					H	150	Prem + Additives

**ADDITIONAL CEMENTING / SQUEEZE RECORD**

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug off Zone	-			

Shots Per Foot	PERFORATION RECORD – Bridge Plugs Set/type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	2870-2884, 2862-2866			
3	2849-2853, 2828-2845			
2	2818-2823, 2806-2815, 2802-2804		Frac – 21,844 gls ClearFRAC LT @ 75% N2, 132,567#	
			16/30 Sand	

TUBING RECORD	Size 2 3/8	Set At 2917	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 07/11/05		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 74	Water Bbls 6	Gas-Oil Ratio Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled _____ <input type="checkbox"/> Other (Specify) _____	_____

# HALLIBURTON JOB SUMMARY

REGION <b>Central Operations</b>		NWA / COUNTRY <b>Mid Continent/USA</b>		SALES ORDER NUMBER <b>3629942</b>		TICKET DATE <b>03/30/05</b>	
MBU ID / EMP # <b>MCL0110 / 217398</b>		H.E.S. EMPLOYEE NAME <b>Mickey Cochran</b>		BDA / STATE <b>MC/Ks</b>		COUNTY <b>GRANT</b>	
LOCATION <b>LIBERAL</b>		COMPANY <b>OXY USA</b>		PSL DEPARTMENT <b>Cement</b>		ORIGINAL	
TICKET AMOUNT <b>\$20,283.95</b>		WELL TYPE <b>02 Gas</b>		CUSTOMER REP / PHONE <b>GREG FILLPOT 620-353-8669</b>			
WELL LOCATION <b>HICKOK, KS</b>		DEPARTMENT <b>ZI</b>		SAP BOMB NUMBER <b>7523</b>		Cement Production Casing	
LEASE NAME <b>ENGLISH</b>		Well No. <b>F-5</b>		SEC / TWP / RNG <b>3 - 29S - 36W</b>		HES FACILITY (CLOSEST TO WELL SITE) <b>Liberal, Ks</b>	

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HR	HR	HR	HR
<b>Cochran, M 217398</b>	8.0			
<b>Buttry, C 317429</b>	8.0			
<b>Lopez, C 321975</b>	8.0			
<b>Cambell, R</b>	8.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
<b>10441883</b>	<b>100</b>			
<b>10219237</b>	<b>100</b>			
<b>10243558/10280731</b>	<b>40</b>			
<b>10011406/10011277</b>	<b>40</b>			

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form. Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
	<b>3/30/2005</b>	<b>3/30/2005</b>	<b>3/30/2005</b>	<b>3/30/2005</b>
Time	<b>0400</b>	<b>0700</b>	<b>1311</b>	<b>1416</b>

**Tools and Accessories**

Type and Size	Qty	Make
Float Collar		H
Float Shoe		O
Centralizers		W
Top Plug	1	C
HEAD	1	H O
Limit clamp		O
Weld-A		W
Guide Shoe		C
BTM PLUG	1	O

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	<b>NEW</b>	<b>10.5#</b>	<b>4 1/2"</b>		<b>0</b>	<b>3,156</b>	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			<b>7 7/8"</b>				Shots/Ft.
Perforations							
Perforations							
Perforations							

**Materials**

Mud Type	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

**Hours On Location**

Date	Hours	Date	Hours	Description of Job
<b>3/30</b>		<b>3/30</b>		<b>Cement Production Casing</b>
<b>Total</b>		<b>Total</b>		

**Hydraulic Horsepower**

Ordered	Avail.	Used
<b>Treating</b>	<b>Average Rates in BPM</b>	<b>Overall</b>
	<b>Disp.</b>	
	<b>Cement Left in Pipe</b>	
<b>Feet</b>	<b>Reason</b>	<b>SHOE JOINT</b>

**Cement Data**

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
<b>1</b>	<b>445</b>	<b>PREMIUM H</b>		<b>6/10% HALAD-322 - 1/2# FLOCELE</b>	<b>4.27</b>	<b>1.06</b>	<b>16.40</b>
<b>2</b>	<b>150</b>	<b>PREMIUM H</b>		<b>1% CC - 6/10% HALAD-322 - 1/2# FLOCELE</b>	<b>4.27</b>	<b>1.06</b>	<b>16.40</b>
<b>3</b>							
<b>4</b>							

**Summary**

Circulating Breakdown	Displacement	Preflush: BBI	Type:
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI	Pad: Bbl - Gal
Cmt Rtn#Bbl	Lost Returns	Excess /Return BBI	Calc. Disp Bbl
Average	Actual TOC	Calc. TOC:	Actual Disp.
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI	Disp: Bbl
	5 Min. 15 Min.	Cement Slurry BBI	
		Total Volume BBI	
			<b>112.0</b>
			<b>162.00</b>

**Frac Ring #1** \_\_\_\_\_ **Frac Ring #2** \_\_\_\_\_ **Frac Ring #3** \_\_\_\_\_ **Frac Ring #4** \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**

CUSTOMER REPRESENTATIVE \_\_\_\_\_

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SIGNATURE \_\_\_\_\_

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<b>HALLIBURTON JOB LOG</b>		TICKET # <b>3629942</b>	TICKET DATE <b>03/30/05</b>
REGION <b>Central Operations</b>	NWA / COUNTRY <b>Mid Continent/USA</b>	BDA / STATE <b>MC/Ks</b>	COUNTY <b>GRANT</b>
MBU ID / EMPL # <b>MCLI0110 / 217398</b>	H.E.S EMPLOYEE NAME <b>Mickey Cochran</b>	PSL DEPARTMENT <b>Cement</b>	
LOCATION <b>LIBERAL</b>	COMPANY <b>OXY USA</b>	CUSTOMER REP / PHONE <b>GREG FILLPOT 620-353-8669</b>	
TICKET AMOUNT <b>\$20,283.95</b>	WELL TYPE <b>02 Gas</b>	API/UMI #	
WELL LOCATION <b>HICKOK, KS</b>	DEPARTMENT <b>ZI</b>	JOB PURPOSE CODE <b>Cement Production Casing</b>	
LEASE NAME <b>ENGLISH</b>	Well No. <b>F-5</b>	SEC / TWP / RNG <b>3 - 29S - 36W</b>	HES FACILITY (CLOSEST TO WELL S) <b>Liberal, Ks</b>

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
Cochran, M 217398	8				
Buttry, C 317429	8				
Lopez, C 321975	8				
Cambell, R	8				

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)			Job Description / Remarks
				N2	CSG.	Tbg	
	1200						JOB READY
	0430						PRETRIP SAFETY MEETING
	0700						ARRIVE ON LOCATION
	0705						PREJOB SAFETY MEETING W/ HALLIBURTON CREW
	0710						SPOT EQUIPMENT
	0715						RIG UP EQUIPMENT
	0900						START CASING
	1100						CASING ON BOTTOM & CIRCULATE W/ RIG PUMP(S)
	1311				3500		PRESSURE TEST PUMPS & LINES
	1316						DROP BOTTOM PLUG
	1317	3.0	3.0		250		START MUD FLUSH AHEAD
	1320						LOAD TOP PLUG
	1322	5.0	19.0		250		FINISH MUD FLUSH
	1329	5.0	84.0		250		START LEAD CEMENT 445 SKS @ 16.4#
	1348	5.0	28.0		200		START TAIL CEMENT 150 SKS @ 16.4#
	1356						SHUT DOWN & WASH PUMP & LINES
	1401						DROP TOP PLUG
	1403	6.0	0		15		START DISPLACEMENT W/ FRESH H2O
	1405	6.0	20.0		300		DISPLACEMENT CAUGHT CEMENT
	1410	2.0	40.0		700		SLOW RATE
	1414	2.0	50.0		1800		BUMP PLUG
	1415				0		RELEASE --- FLOAT HELD
	1416						END JOB
					950		PRESSURE BEFORE PLUG LANDED
							CIRCULATED CEMENT TO PIT
							THANK YOU FOR CALLING HALLIBURTON
							MICKEY & CREW

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**CONFIDENTIAL** **KCC ORIGINAL**  
**Cementing Service Report** JUL 18 2005

Customer <b>OXY USA, INC.</b>	<b>CONFIDENTIAL</b>	Job Number <b>2205547987</b>
----------------------------------	---------------------	---------------------------------

Well <b>English 'F' 5</b>		Location (legal) <b>Sec 3 - 29S - 36W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2005-Mar-28</b>			
Field		Formation Name/Type		Deviation		Well MD			
				12.3 in		740 ft			
County <b>Grant</b>		State/Province <b>Kansas</b>		BHP <b>psi</b>		BHST <b>88 °F</b>			
				BHCT <b>85 °F</b>		Pore Press. Gradient <b>psi/ft</b>			
Well Master: <b>0630675671</b>		API / UWI:		<b>Casing/Liner</b>					
Rig Name <b>CHEYENNE 8</b>		Drilled For <b>Gas</b>		Service Via <b>Land</b>		Depth, ft			
						<b>730</b>			
Offshore Zone		Well Class <b>New</b>		Well Type <b>Development</b>		Size, in			
						<b>8.63</b>			
Drilling Fluid Type <b>Bentonite</b>		Max. Density <b>9.3 lb/gal</b>		Plastic Viscosity <b>33 cp</b>		Weight, lb/ft			
						<b>24</b>			
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>		<b>Tubing/Drill Pipe</b>					
Max. Allowed Tubing Pressure <b>1500 psi</b>		Max. Allowed Ann. Pressure <b>psi</b>		Wellhead Connection <b>8 5/8" H&amp;SM</b>		Grade			
						<b>8RD</b>			
Service Instructions <b>CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 175 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</b>						Thread			
						<b>8RD</b>			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		<b>Perforations/Open Hole</b>					
Lift Pressure: <b>200 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Top, ft			
						Bottom, ft			
No. Centralizers: Top Plugs: <b>1</b>		Bottom Plugs:		Stage Tool Type:		No. of Shots			
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>2005-Mar-28 17:30</b>		Arrived on Location: <b>2005-Mar-28 22:00</b>		Leave Location:			
						Total Interval <b>ft</b>			
						Diameter <b>in</b>			
						Treat Down <b>Casing</b>			
						Displacement <b>bbbl</b>			
						Packer Type			
						Packer Depth <b>ft</b>			
						Tubing Vol. <b>bbbl</b>			
						Casing Vol. <b>bbbl</b>			
						Annular Vol. <b>bbbl</b>			
						Open Hole Vol. <b>bbbl</b>			
				<b>Casing Tools</b>				<b>Squeeze Job</b>	
				Shoe Type: <b>Auto-Fill</b>		Squeeze Type			
				Shoe Depth: <b>701.21 ft</b>		Tool Type:			
				Stage Tool Depth: <b>ft</b>		Tool Depth: <b>ft</b>			
				Collar Type:		Tail Pipe Size: <b>in</b>			
				Collar Depth: <b>ft</b>		Tail Pipe Depth: <b>ft</b>			
						Sqz Total Vol: <b>bbbl</b>			
Date	Time	Density	Rate	Volume	CMT TREAT PRES	0	0	0	Message
	24 hr clock	lb/gal	bbbl/min	bbbl	psi	0	0	0	
2005-Mar-28	20:44	8.36	0.0	0.0	0	0	0	0	
2005-Mar-28	20:44								Start Job
2005-Mar-28	20:44	8.36	0.0	0.0	0	0	0	0	
2005-Mar-28	20:44								Pressure Test Lines
2005-Mar-28	20:44	8.36	0.0	0.0	0	0	0	0	
2005-Mar-28	20:44	8.36	0.0	0.0	5	0	0	0	
2005-Mar-28	20:44								Start Pumping Spacer
2005-Mar-28	20:44	8.36	0.0	0.0	0	0	0	0	
2005-Mar-28	20:45	8.35	0.4	0.1	531	0	0	0	
2005-Mar-28	20:46	8.35	0.0	0.1	1845	0	0	0	
2005-Mar-28	20:46	8.35	0.0	0.1	32	0	0	0	
2005-Mar-28	20:47	8.35	4.8	1.8	55	0	0	0	
2005-Mar-28	20:48	8.35	5.4	5.5	55	0	0	0	
2005-Mar-28	20:48	8.35	5.4	9.0	55	0	0	0	
2005-Mar-28	20:49	9.10	5.5	11.7	64	0	0	0	
2005-Mar-28	20:49								End Spacer
2005-Mar-28	20:49	9.31	5.5	12.0	69	0	0	0	
2005-Mar-28	20:49								Reset Total, Vol = 12.01 bbl
2005-Mar-28	20:49	9.50	5.3	0.3	78	0	0	0	
2005-Mar-28	20:49								Start Mixing Lead Slurry
2005-Mar-28	20:49	9.75	5.4	0.6	78	0	0	0	
2005-Mar-28	20:50	11.41	5.4	4.2	105	0	0	0	

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Well		Field			Service Date		Customer		Job Number
English 'F' #5					0587-Mar-28		OXY USA, INC.		2205547987
Date	Time	Density	Rate	Volume	CMT TREAT PRES	0	0	0	Message
	24 hr clock	lb/gal	bbl/min	bbl	psi	0	0	0	
2005-Mar-28	20:50	12.02	5.4	7.8	119	0	0	0	
2005-Mar-28	20:51	12.41	6.1	11.5	96	0	0	0	
2005-Mar-28	20:52	12.58	6.2	15.6	146	0	0	0	
2005-Mar-28	20:52	12.42	6.1	19.7	137	0	0	0	
2005-Mar-28	20:53	12.24	6.2	23.8	128	0	0	0	
2005-Mar-28	20:54	12.19	6.2	27.9	128	0	0	0	
2005-Mar-28	20:54	12.21	6.2	32.0	124	0	0	0	
2005-Mar-28	20:55	12.22	6.2	36.3	124	0	0	0	
2005-Mar-28	20:56	12.21	6.2	40.4	124	0	0	0	
2005-Mar-28	20:56	12.17	6.2	44.6	124	0	0	0	
2005-Mar-28	20:57	12.15	6.3	48.8	124	0	0	0	
2005-Mar-28	20:58	12.09	6.2	52.9	124	0	0	0	
2005-Mar-28	20:58	12.24	6.3	57.1	128	0	0	0	
2005-Mar-28	20:59	12.25	6.3	61.3	128	0	0	0	
2005-Mar-28	21:00	12.11	6.3	65.5	128	0	0	0	
2005-Mar-28	21:00	12.09	6.3	68.4	128	0	0	0	
2005-Mar-28	21:00								End Lead Slurry
2005-Mar-28	21:00	12.14	6.3	68.6	128	0	0	0	
2005-Mar-28	21:00								Reset Total, Vol = 68.65 bbl
2005-Mar-28	21:00								Start Mixing Tail Slurry
2005-Mar-28	21:00	12.18	6.3	0.2	128	0	0	0	
2005-Mar-28	21:00	12.39	6.3	1.0	128	0	0	0	
2005-Mar-28	21:01	13.16	6.3	5.3	146	0	0	0	
2005-Mar-28	21:02	13.53	6.2	9.4	146	0	0	0	
2005-Mar-28	21:02	13.78	5.6	13.4	133	0	0	0	
2005-Mar-28	21:03	14.35	5.6	17.2	142	0	0	0	
2005-Mar-28	21:04	14.97	5.9	21.0	174	0	0	0	
2005-Mar-28	21:04	15.07	5.6	24.7	169	0	0	0	
2005-Mar-28	21:05	15.04	5.6	28.5	165	0	0	0	
2005-Mar-28	21:06	15.07	5.6	32.2	160	0	0	0	
2005-Mar-28	21:06	15.11	6.1	36.3	192	0	0	0	
2005-Mar-28	21:07	15.03	6.0	40.3	192	0	0	0	
2005-Mar-28	21:08	14.94	5.6	44.2	160	0	0	0	
2005-Mar-28	21:08	15.37	2.5	46.1	64	0	0	0	
2005-Mar-28	21:09	15.31	2.6	48.0	64	0	0	0	
2005-Mar-28	21:09								End Tail Slurry
2005-Mar-28	21:09	14.82	0.0	48.2	-9	0	0	0	
2005-Mar-28	21:09								Reset Total, Vol = 48.23 bbl
2005-Mar-28	21:09	14.62	0.0	48.2	-9	0	0	0	
2005-Mar-28	21:09								Drop Top Plug
2005-Mar-28	21:09	14.46	0.0	0.0	-9	0	0	0	
2005-Mar-28	21:09	14.40	0.0	0.0	-9	0	0	0	
2005-Mar-28	21:09								Start Displacement
2005-Mar-28	21:10	12.36	0.0	0.0	-5	0	0	0	
2005-Mar-28	21:10	10.19	0.0	0.0	-5	0	0	0	
2005-Mar-28	21:11	9.90	0.0	0.0	-5	0	0	0	
2005-Mar-28	21:12	9.79	0.0	0.0	-5	0	0	0	
2005-Mar-28	21:12	9.72	0.0	0.0	0	0	0	0	
2005-Mar-28	21:13	9.67	0.0	0.0	0	0	0	0	
2005-Mar-28	21:14	9.63	0.0	0.0	0	0	0	0	
2005-Mar-28	21:14	9.60	0.0	0.0	-5	0	0	0	
2005-Mar-28	21:15	9.56	0.0	0.0	0	0	0	0	
2005-Mar-28	21:16	9.49	0.0	0.0	0	0	0	0	
2005-Mar-28	21:16								Reset Total, Vol = 0.00 bbl

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Well		Field			Service Date		Customer			Job Number	
English 'F' #5					0587-Mar-28		OXY USA, INC.			2205547987	
Date	Time	Density	Rate	Volume	CMT TREAT PRES	0	0	0	Message		
	24 hr clock	lb/gal	bbbl/min	bbbl	psi	0	0	0			
2005-Mar-28	21:16	9.47	0.0	0.0	0	0	0	0	<b>KCC</b> <b>JUL 18 2005</b> <b>CONFIDENTIAL</b>		
2005-Mar-28	21:16	9.13	5.6	1.1	73	0	0	0			
2005-Mar-28	21:17	9.09	5.7	5.0	55	0	0	0			
2005-Mar-28	21:18	8.39	5.7	8.7	55	0	0	0			
2005-Mar-28	21:18	8.42	5.7	12.5	64	0	0	0			
2005-Mar-28	21:19	8.42	5.7	16.3	82	0	0	0			
2005-Mar-28	21:20	8.38	5.7	20.1	105	0	0	0			
2005-Mar-28	21:20	8.39	5.8	23.9	137	0	0	0			
2005-Mar-28	21:21	8.38	5.7	27.8	165	0	0	0			
2005-Mar-28	21:22	8.38	5.8	31.6	192	0	0	0			
2005-Mar-28	21:22	8.38	5.8	35.4	220	0	0	0			
2005-Mar-28	21:23	8.38	2.2	37.3	179	0	0	0			
2005-Mar-28	21:24	8.38	2.2	38.7	197	0	0	0			
2005-Mar-28	21:24	8.38	2.0	40.1	206	0	0	0			
2005-Mar-28	21:25	8.38	2.1	41.5	215	0	0	0			
2005-Mar-28	21:26	8.38	2.0	42.9	229	0	0	0			
2005-Mar-28	21:26	8.38	0.0	43.8	604	0	0	0			
2005-Mar-28	21:27	8.38	0.0	43.8	46	0	0	0			
2005-Mar-28	21:27								End Displacement		
2005-Mar-28	21:27	8.38	0.0	43.8	0	0	0	0			
2005-Mar-28	21:27								Bump Top Plug		
2005-Mar-28	21:27	8.38	0.0	43.8	0	0	0	0			
2005-Mar-28	21:27								Reset Total, Vol = 43.78 bbl		
2005-Mar-28	21:27	8.38	0.0	43.8	0	0	0	0			
2005-Mar-28	21:28	8.38	0.0	0.0	0	0	0	0			
2005-Mar-28	21:28								End Job		
2005-Mar-28	21:28	8.38	0.0	0.0	18	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			6.2	115	0	10		
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density		
600		120	600		bbbl	8.34 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	50	bbbl	
%	115 bbl	43.8 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			Tan, Naveen					

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Schlumberger

Date	3/28/2005
Company	Oxy USA Inc.
Job Number	2205547987
Well Name	English
Well Number	F-5
County	Grant
State	Kansas

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	743.61	
Shoe Length	42.4	
Insert Depth	701.21	
Hole Size	12 1/4	
Hole Depth	740	

Lead	
175 sacks	35:65 Poz C
2.19 yield	D20,S1,D29
12.2 weight	
12.4 water	51.7
cubic ft.	383
height	929
bbls	68.3

Hole Vol	102
Shoe Vol	2.70088

Pipe Volume	47
Annular Volume	55
Total Cement	115
Total Water	126

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	305
Cement lift	221

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

10/1 sacks  
1200

Test 2500

Mud

10 Spacer

68 Lead 12.2

47 Tail 14.8

44.7 Displacement

1500 Maximum Pressure

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

Pump time @ 5 BPM

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