

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

September 1999

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form Must Be Typed

ORIGINAL

Operator: License # 5447
 Name: OXY USA Inc.
 Address: P.O. Box 2528
 City/State/Zip: Liberal, KS 67905
 Purchaser: ONEOK
 Operator Contact Person: Vicki Carder
 Phone: (620) 629-4200
 Contractor: Name: Cheyenne Drilling LP
 License: 33375
 Wellsite Geologist: Justin Carter
 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. _____
07/05/05 07/14/05 08/05/05
 Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 175-21991-00-00
 County: Seward
SE - SE - SW Sec 22 Twp. 34 S. R. 33W
330 feet from (S) N (circle one) Line of Section
2438 feet from E (W) (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW (SW)
 Lease Name: Hertlein B Well #: 2
 Field Name: Salley
 Producing Formation: Morrow
 Elevation: Ground: 2825 Kelly Bushing: 2836
 Total Depth: 6600 Plug Back Total Depth: 6498
 Amount of Surface Pipe Set and Cemented at 1720 feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set 3117
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT I WITH 3-19-07
 (Data must be collected from the Reserve Pit)
 Chloride content 8000 mg/l ppm Fluid volume 1600 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 10/31/05
 Subscribed and sworn to before me this 31 day of Oct.
 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

ANITA PETERSON
 Notary Public - State of Kansas
 My Appt. Expires October 1, 2009

X

Side Two

Operator Name: OXY USA Inc. Lease Name: Hertlein B Well #: 2
 Sec. 22 Twp. 34 S. R. 33W East West County: Seward

Instructions: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2628	208
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wabaunsee	3497	-661
List All E. Logs Run:	Neutron Induction	Heebner Shale	4314	-1478
	Sonic Microlog TracerScan-07/28/05	Toronto	4337	-1501
	TracerScan-08/04/05 CBL Geological Report	Lansing	4468	-1632
		Marmaton	5182	-2346
		Cherokee	5450	-2614
		(See Side Three)		

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set(in. O.D.)	Weight Lbs./ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor					C		
Surface	12 1/4	8 5/8	24	1720	C	615	35/65 Poz + Additives
					C	195	Class C + Additives
Production	7 7/8	4 1/2	10.5	6584	H	240	50/50 POZ + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	Est 1255-3117	H	400	50/50 Poz + Additives (Port Collar)
<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	6147-6158, 6108-6113	Acidize - 1840 gls 17% FE Acid	
		Frac - 33,705 gls 70QN2 w/30# Linear Gel	
		57,108# 20/40 Sand	
	Set RBP @ 6098'		
4	6042-6053	Acidize-1375 gls 17% FE Acid (See Side Three)	

TUBING RECORD	Size NA	Set At NA	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 09/01/05	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil BBLs 4	Gas Mcf 2233	Water Bbls 6	Gas-Oil Ratio Gravity

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) _____

Side Three

Operator Name: OXY USA Inc. Lease Name: Hertlein B Well #: 2
 Sec. 22 Twp. 34 S. R. 33W East West County: Seward

Name	Top	Datum
Atoka	5627	-2791
Morrow	5819	-2983
Chester	6093	-3258
St Genevieve	6422	-3586

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
		Frac-48,500 gls WF130 gel, 70QN2, 83,000# 20/40 Sand	

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 WICHITA, KS



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Cementing Service Report

Customer OXY USA, INC.						Job Number 2205548223					
Well HERTLIEN B 2			Location (legal) SEC 22-T34S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Jul-19		
Field SALLEY		Formation Name/Type			Deviation °		Bit Size 7.88 in	Well MD 3,317 ft	Well TVD 3,317 ft		
County SEWARD		State/Province KANSAS			BHP psi	BHST 112 °F	BHCT °F	Pore Press. Gradient psi/ft			
Well Master: 0630710658		API / UWI: 15-175-219910000			Casing/Liner						
Rig Name MURFIN 20		Drilled For Gas		Service Via Land		Depth, ft 6600	Size, in 4.5	Weight, lb/ft 10.5	Grade	Thread	
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe					
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Depth, ft 3317	Size, in 2.375	Weight, lb/ft 4.6	Grade	Thread 8RD	
Service Line Cementing		Job Type Cem Prod Casing				Perforations/Open Hole					
Max. Allowed Tubing Pressure 2500 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 2 3/8" 4.6# T/S		Top, ft 3317	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions CEMENT PORT COLLAR WITH: 20 BBLs CW100 400 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPS D42+5 PPS D53+0.6 %D112+ 0.25 %D65 + 0.25%D46 DISPLACE W/FRESH WATER						Diameter in	Treat Down Snubbing	Displacement 11.8 bbl	Packer Type Port Collar	Packer Depth 3317 ft	
						Tubing Vol. 12.8 bbl	Casing Vol. 52.7 bbl	Annular Vol. 33.5 bbl	OpenHole Vol bbl		
						Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Casing Tools		Squeeze Job	
						Lift Pressure: 500 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Type:	Squeeze Type	
No. Centralizers:		Top Plugs:		Bottom Plugs:		Shoe Depth: ft	Tool Type:				
Cement Head Type:		Stage Tool Type:		Tool Depth: ft		Stage Tool Depth: ft	Tail Pipe Size: in				
Job Scheduled For: 7/19/2005 12:00		Arrived on Location: 2005-Jul-19 11:15		Leave Location: 2005-Jul-19		Collar Type:	Tail Pipe Depth: ft				
						Collar Depth: ft	Sqz Total Vol: bbl				
Date	Time	Treating Pressure psi	Density lb/gal	Rate bbl/min	Volume bbl	0	0	0	Message		
2005-Jul-19	12:05	0	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:05	0	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:05								Pressure Test Lines		
2005-Jul-19	12:05	0	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:05	0	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:06	0	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:06	46	8.31	2.6	0.2	0	0	0			
2005-Jul-19	12:06	64	8.30	0.0	0.3	0	0	0			
2005-Jul-19	12:06	2426	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:07	2444	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:07	2399	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:07	2376	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:07	2362	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:08	37	8.30	0.0	0.4	0	0	0			
2005-Jul-19	12:08	37	8.30	0.4	0.5	0	0	0			
2005-Jul-19	12:08	46	8.30	0.0	0.5	0	0	0			
2005-Jul-19	12:08	41	8.30	0.0	0.5	0	0	0			
2005-Jul-19	12:09	41	8.30	0.0	0.5	0	0	0			
2005-Jul-19	12:09								Test Port Collar		
2005-Jul-19	12:09	41	8.30	0.0	0.5	0	0	0			
2005-Jul-19	12:09	41	8.30	0.0	0.0	0	0	0			
2005-Jul-19	12:09	124	8.30	0.5	0.1	0	0	0			

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Well		Field			Service Date		Customer		Job Number
HERTLIEN B #2		SALLEY			05200-Jul-19		OXY USA, INC.		2205548223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbt/min	bbt	0	0	0	
2005-Jul-19	12:09	471	8.29	0.6	0.2	0	0	0	
2005-Jul-19	12:10	856	8.30	0.5	0.4	0	0	0	
2005-Jul-19	12:10	1241	8.30	0.5	0.5	0	0	0	
2005-Jul-19	12:10	1566	8.30	0.5	0.6	0	0	0	
2005-Jul-19	12:10	1868	8.30	0.4	0.7	0	0	0	
2005-Jul-19	12:11	1941	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:11	2023	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:11	1982	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:11	1808	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:12	1222	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:12	426	8.30	0.0	0.8	0	0	0	
2005-Jul-19	12:12	453	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:12	398	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:12								Open Port Collar
2005-Jul-19	12:12	407	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:13	211	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:13	192	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:13	179	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:13	14	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:14	5	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:14								Start Pumping Wash
2005-Jul-19	12:14	0	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:14	0	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:14	0	8.30	0.0	0.0	0	0	0	
2005-Jul-19	12:15	37	8.30	2.5	0.2	0	0	0	
2005-Jul-19	12:15	41	8.30	2.8	0.9	0	0	0	
2005-Jul-19	12:15	165	8.31	2.5	1.6	0	0	0	
2005-Jul-19	12:15	165	8.31	2.4	2.2	0	0	0	
2005-Jul-19	12:16	179	8.31	2.5	2.8	0	0	0	
2005-Jul-19	12:16	188	8.32	2.5	3.4	0	0	0	
2005-Jul-19	12:16	256	8.31	2.7	4.1	0	0	0	
2005-Jul-19	12:16	261	8.32	2.8	4.8	0	0	0	
2005-Jul-19	12:17	261	8.31	2.8	5.5	0	0	0	
2005-Jul-19	12:17	275	8.31	2.7	6.2	0	0	0	
2005-Jul-19	12:17	270	8.31	2.8	6.9	0	0	0	
2005-Jul-19	12:17	275	8.31	2.7	7.5	0	0	0	
2005-Jul-19	12:18	270	8.33	2.8	8.2	0	0	0	
2005-Jul-19	12:18	279	8.32	2.7	8.9	0	0	0	
2005-Jul-19	12:18	288	8.32	2.8	9.6	0	0	0	
2005-Jul-19	12:18	288	8.32	2.8	10.3	0	0	0	
2005-Jul-19	12:19	288	8.32	2.7	11.0	0	0	0	
2005-Jul-19	12:19	293	8.32	2.7	11.7	0	0	0	
2005-Jul-19	12:19	307	8.32	2.7	12.4	0	0	0	
2005-Jul-19	12:19	307	8.32	2.8	13.0	0	0	0	
2005-Jul-19	12:20	311	8.32	2.7	13.7	0	0	0	
2005-Jul-19	12:20	325	8.32	2.7	14.4	0	0	0	
2005-Jul-19	12:20	320	8.32	2.7	15.1	0	0	0	
2005-Jul-19	12:20	330	8.32	2.8	15.8	0	0	0	
2005-Jul-19	12:21	334	8.32	2.8	16.5	0	0	0	
2005-Jul-19	12:21	334	8.31	2.8	17.2	0	0	0	
2005-Jul-19	12:21	339	8.33	2.7	17.9	0	0	0	
2005-Jul-19	12:21	343	8.31	2.7	18.6	0	0	0	
2005-Jul-19	12:22	352	8.27	2.7	19.2	0	0	0	
2005-Jul-19	12:22	362	8.31	2.7	19.9	0	0	0	

Well		Field			Service Date		Customer			Job Number
HERTLIEN B #2		SALLEY			05200-Jul-19		OXY USA, INC.			2205648223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbbl/min	bbbl	0	0	0		
2005-Jul-19	12:22	339	8.65	2.7	20.5	0	0	0		
2005-Jul-19	12:22								Reset Total, Vol = 19.90 bbl	
2005-Jul-19	12:22	311	8.74	2.7	0.1	0	0	0		
2005-Jul-19	12:22								Start Cement Slurry	
2005-Jul-19	12:22	334	8.76	2.7	0.2	0	0	0		
2005-Jul-19	12:22	261	9.82	2.4	0.8	0	0	0		
2005-Jul-19	12:23	238	10.95	2.0	1.3	0	0	0		
2005-Jul-19	12:23	252	11.62	2.2	1.9	0	0	0		
2005-Jul-19	12:23	261	12.10	2.2	2.4	0	0	0		
2005-Jul-19	12:23	78	12.54	2.3	3.0	0	0	0		
2005-Jul-19	12:24	348	12.97	2.8	3.6	0	0	0		
2005-Jul-19	12:24	362	13.32	2.7	4.3	0	0	0		
2005-Jul-19	12:24	385	13.56	2.8	5.0	0	0	0		
2005-Jul-19	12:24	357	13.78	2.7	5.7	0	0	0		
2005-Jul-19	12:25	417	14.00	2.7	6.3	0	0	0		
2005-Jul-19	12:25	513	14.14	2.8	7.0	0	0	0		
2005-Jul-19	12:25	471	13.95	2.8	7.8	0	0	0		
2005-Jul-19	12:25	444	13.95	2.8	8.5	0	0	0		
2005-Jul-19	12:26	485	13.96	2.9	9.2	0	0	0		
2005-Jul-19	12:26	508	13.77	2.9	10.0	0	0	0		
2005-Jul-19	12:26	563	13.74	2.9	10.7	0	0	0		
2005-Jul-19	12:26	536	13.64	3.0	11.4	0	0	0		
2005-Jul-19	12:27	586	13.54	2.9	12.2	0	0	0		
2005-Jul-19	12:27	645	13.45	3.0	12.9	0	0	0		
2005-Jul-19	12:27	677	13.33	3.0	13.7	0	0	0		
2005-Jul-19	12:27	682	13.50	3.0	14.4	0	0	0		
2005-Jul-19	12:28	691	13.86	3.0	15.2	0	0	0		
2005-Jul-19	12:28	677	14.01	3.0	15.9	0	0	0		
2005-Jul-19	12:28	769	14.07	2.9	16.6	0	0	0		
2005-Jul-19	12:28	751	14.18	3.0	17.4	0	0	0		
2005-Jul-19	12:29	829	14.20	2.9	18.1	0	0	0		
2005-Jul-19	12:29	879	14.14	2.9	18.9	0	0	0		
2005-Jul-19	12:29	787	13.97	2.9	19.6	0	0	0		
2005-Jul-19	12:29	824	13.91	2.9	20.3	0	0	0		
2005-Jul-19	12:30	865	13.85	2.9	21.0	0	0	0		
2005-Jul-19	12:30	819	13.75	2.9	21.7	0	0	0		
2005-Jul-19	12:30	861	13.66	2.8	22.4	0	0	0		
2005-Jul-19	12:30	879	13.72	3.0	23.2	0	0	0		
2005-Jul-19	12:31	916	13.91	2.9	23.9	0	0	0		
2005-Jul-19	12:31	870	14.07	2.9	24.6	0	0	0		
2005-Jul-19	12:31	906	14.17	2.9	25.4	0	0	0		
2005-Jul-19	12:31	742	14.22	2.7	26.0	0	0	0		
2005-Jul-19	12:32	664	14.27	2.6	26.7	0	0	0		
2005-Jul-19	12:32	778	14.31	2.7	27.4	0	0	0		
2005-Jul-19	12:32	783	14.23	2.8	28.0	0	0	0		
2005-Jul-19	12:32	810	14.05	2.8	28.7	0	0	0		
2005-Jul-19	12:33	824	13.91	2.7	29.4	0	0	0		
2005-Jul-19	12:33	824	13.77	2.8	30.1	0	0	0		
2005-Jul-19	12:33	865	13.63	2.8	30.8	0	0	0		
2005-Jul-19	12:33	870	13.65	2.8	31.5	0	0	0		
2005-Jul-19	12:34	874	13.80	2.8	32.1	0	0	0		
2005-Jul-19	12:34	966	13.88	2.8	32.8	0	0	0		
2005-Jul-19	12:34	957	14.04	2.8	33.5	0	0	0		
2005-Jul-19	12:34	925	14.15	2.8	34.2	0	0	0		

Well			Field			Service Date		Customer		Job Number
HERTLIEN B #2			SALLEY			05200-Jul-19		OXY USA, INC.		2205548223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0		
2005-Jul-19	12:35	961	14.22	2.9	35.0	0	0	0		
2005-Jul-19	12:35	966	14.27	2.9	35.7	0	0	0		
2005-Jul-19	12:35	993	14.33	2.9	36.4	0	0	0		
2005-Jul-19	12:35	1021	14.24	2.9	37.1	0	0	0		
2005-Jul-19	12:36	998	14.24	2.9	37.8	0	0	0		
2005-Jul-19	12:36	984	14.13	2.8	38.5	0	0	0		
2005-Jul-19	12:36	1002	14.13	2.9	39.2	0	0	0		
2005-Jul-19	12:36	1030	14.11	3.0	39.9	0	0	0		
2005-Jul-19	12:37	1021	13.99	2.9	40.7	0	0	0		
2005-Jul-19	12:37	1039	13.95	2.9	41.4	0	0	0		
2005-Jul-19	12:37	1044	13.91	3.0	42.2	0	0	0		
2005-Jul-19	12:37	1030	13.85	2.9	42.9	0	0	0		
2005-Jul-19	12:38	1053	13.72	2.9	43.6	0	0	0		
2005-Jul-19	12:38	1007	13.61	2.9	44.4	0	0	0		
2005-Jul-19	12:38	1035	13.65	3.0	45.1	0	0	0		
2005-Jul-19	12:38	1035	13.72	3.0	45.8	0	0	0		
2005-Jul-19	12:39	1071	13.75	2.9	46.6	0	0	0		
2005-Jul-19	12:39	1057	13.78	3.0	47.3	0	0	0		
2005-Jul-19	12:39	1062	13.78	3.0	48.1	0	0	0		
2005-Jul-19	12:39	1053	13.78	3.0	48.8	0	0	0		
2005-Jul-19	12:40	1067	13.64	3.0	49.6	0	0	0		
2005-Jul-19	12:40	1053	13.44	3.0	50.3	0	0	0		
2005-Jul-19	12:40	1048	13.56	3.0	51.1	0	0	0		
2005-Jul-19	12:40	1002	13.80	3.0	51.8	0	0	0		
2005-Jul-19	12:41	1002	13.98	2.9	52.5	0	0	0		
2005-Jul-19	12:41	870	14.07	3.1	53.3	0	0	0		
2005-Jul-19	12:41	819	14.17	2.9	54.0	0	0	0		
2005-Jul-19	12:41	801	14.14	2.9	54.8	0	0	0		
2005-Jul-19	12:42	728	14.12	2.9	55.5	0	0	0		
2005-Jul-19	12:42	732	14.09	2.9	56.2	0	0	0		
2005-Jul-19	12:42	746	14.16	2.9	56.9	0	0	0		
2005-Jul-19	12:42	714	13.92	2.9	57.7	0	0	0		
2005-Jul-19	12:43	719	13.93	2.8	58.4	0	0	0		
2005-Jul-19	12:43	760	14.01	2.8	59.1	0	0	0		
2005-Jul-19	12:43	742	14.04	2.9	59.8	0	0	0		
2005-Jul-19	12:43	760	14.06	2.8	60.5	0	0	0		
2005-Jul-19	12:44	664	14.07	2.9	61.2	0	0	0		
2005-Jul-19	12:44	1167	14.06	3.1	61.9	0	0	0		
2005-Jul-19	12:44	1158	14.01	3.3	62.7	0	0	0		
2005-Jul-19	12:44	1195	13.95	3.3	63.6	0	0	0		
2005-Jul-19	12:45	1213	13.89	3.4	64.4	0	0	0		
2005-Jul-19	12:45	1236	13.84	3.3	65.2	0	0	0		
2005-Jul-19	12:45	1236	13.73	3.3	66.1	0	0	0		
2005-Jul-19	12:45	1241	13.60	3.4	66.9	0	0	0		
2005-Jul-19	12:46	1268	13.46	3.4	67.7	0	0	0		
2005-Jul-19	12:46	1103	13.31	3.3	68.6	0	0	0		
2005-Jul-19	12:46	1053	13.25	3.2	69.4	0	0	0		
2005-Jul-19	12:46	1048	13.34	3.3	70.2	0	0	0		
2005-Jul-19	12:47	1048	13.52	3.3	71.0	0	0	0		
2005-Jul-19	12:47	1048	13.62	3.2	71.8	0	0	0		
2005-Jul-19	12:47	1057	13.73	3.2	72.6	0	0	0		
2005-Jul-19	12:47	1012	13.81	3.2	73.4	0	0	0		
2005-Jul-19	12:48	1021	13.87	3.3	74.2	0	0	0		
2005-Jul-19	12:48	1053	13.94	3.3	75.0	0	0	0		

Well		Field			Service Date		Customer		Job Number
HERTLIEN B #2		SALLEY			05200-Jul-19		OXY USA, INC.		2205548223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbf/min	bbf	0	0	0	
2005-Jul-19	12:48	957	13.88	3.3	75.8	0	0	0	
2005-Jul-19	12:48	980	13.78	3.1	76.6	0	0	0	
2005-Jul-19	12:49	998	13.64	3.2	77.4	0	0	0	
2005-Jul-19	12:49	1002	13.49	3.3	78.3	0	0	0	
2005-Jul-19	12:49	998	13.62	3.2	79.1	0	0	0	
2005-Jul-19	12:49	984	13.73	3.2	79.9	0	0	0	
2005-Jul-19	12:50	1007	13.78	3.2	80.7	0	0	0	
2005-Jul-19	12:50	1002	13.82	3.2	81.5	0	0	0	
2005-Jul-19	12:50	1012	13.77	3.2	82.3	0	0	0	
2005-Jul-19	12:50	1007	13.65	3.2	83.1	0	0	0	
2005-Jul-19	12:51	993	13.50	3.3	83.9	0	0	0	
2005-Jul-19	12:51	1021	13.49	3.3	84.7	0	0	0	
2005-Jul-19	12:51	984	13.53	3.2	85.5	0	0	0	
2005-Jul-19	12:51	980	13.50	3.2	86.3	0	0	0	
2005-Jul-19	12:52	993	13.58	3.3	87.1	0	0	0	
2005-Jul-19	12:52	984	13.70	3.2	87.9	0	0	0	
2005-Jul-19	12:52	943	13.80	3.3	88.7	0	0	0	
2005-Jul-19	12:52	952	13.89	3.1	89.5	0	0	0	
2005-Jul-19	12:53	957	13.86	3.2	90.3	0	0	0	
2005-Jul-19	12:53	957	13.90	3.1	91.1	0	0	0	
2005-Jul-19	12:53	966	13.88	3.1	91.9	0	0	0	
2005-Jul-19	12:53	952	13.91	3.1	92.7	0	0	0	
2005-Jul-19	12:54	943	13.88	3.2	93.4	0	0	0	
2005-Jul-19	12:54	970	13.91	3.1	94.2	0	0	0	
2005-Jul-19	12:54	966	13.90	3.2	95.0	0	0	0	
2005-Jul-19	12:54	980	13.76	3.2	95.8	0	0	0	
2005-Jul-19	12:55	916	13.76	3.1	96.6	0	0	0	
2005-Jul-19	12:55	966	13.75	3.2	97.4	0	0	0	
2005-Jul-19	12:55	961	13.70	3.1	98.2	0	0	0	
2005-Jul-19	12:55	984	13.69	3.2	98.9	0	0	0	
2005-Jul-19	12:56	998	13.67	3.2	99.7	0	0	0	
2005-Jul-19	12:56	1007	13.75	3.1	100.5	0	0	0	
2005-Jul-19	12:56	1035	13.78	3.2	101.3	0	0	0	
2005-Jul-19	12:56	1012	13.83	3.2	102.1	0	0	0	
2005-Jul-19	12:57	1039	13.85	3.1	102.9	0	0	0	
2005-Jul-19	12:57	1048	13.83	3.1	103.7	0	0	0	
2005-Jul-19	12:57	1016	13.81	3.1	104.5	0	0	0	
2005-Jul-19	12:57	1039	13.75	3.2	105.2	0	0	0	
2005-Jul-19	12:58	1025	13.84	3.2	106.0	0	0	0	
2005-Jul-19	12:58	82	13.89	2.1	106.8	0	0	0	
2005-Jul-19	12:58	87	13.87	1.9	107.3	0	0	0	
2005-Jul-19	12:58	87	13.81	1.9	107.7	0	0	0	
2005-Jul-19	12:59	96	13.78	2.0	108.2	0	0	0	
2005-Jul-19	12:59	96	13.78	1.9	108.7	0	0	0	
2005-Jul-19	12:59	311	13.78	2.3	109.3	0	0	0	
2005-Jul-19	12:59	298	13.78	2.3	109.8	0	0	0	
2005-Jul-19	13:00	298	13.78	2.3	110.4	0	0	0	
2005-Jul-19	13:00	311	13.71	2.3	111.0	0	0	0	
2005-Jul-19	13:00								Reset Total, Vol = 112 bbl
2005-Jul-19	13:00	298	13.66	2.2	111.1	0	0	0	
2005-Jul-19	13:00								Start Displacement
2005-Jul-19	13:00	238	13.23	2.1	0.1	0	0	0	
2005-Jul-19	13:00	69	9.50	1.9	0.4	0	0	0	
2005-Jul-19	13:00	1076	8.63	3.3	1.2	0	0	0	

Well		Field			Service Date		Customer		Job Number
HERTLIEN B #2		SALLEY			05200-Jul-19		OXY USA, INC.		2205548223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbbl/min	bbbl	0	0	0	
2005-Jul-19	13:01	1511	8.42	3.7	2.1	0	0	0	
2005-Jul-19	13:01	1469	8.38	3.9	3.0	0	0	0	
2005-Jul-19	13:01	1483	8.35	3.9	4.0	0	0	0	
2005-Jul-19	13:01	1469	8.35	3.9	4.9	0	0	0	
2005-Jul-19	13:02	1414	8.33	3.9	5.9	0	0	0	
2005-Jul-19	13:02	1424	8.33	3.9	6.9	0	0	0	
2005-Jul-19	13:02	1414	8.32	4.0	7.9	0	0	0	
2005-Jul-19	13:02	1396	8.33	4.1	8.9	0	0	0	
2005-Jul-19	13:03	1360	8.31	4.1	9.9	0	0	0	
2005-Jul-19	13:03	1117	8.32	4.2	11.0	0	0	0	
2005-Jul-19	13:03	18	8.31	2.6	11.8	0	0	0	
2005-Jul-19	13:03	114	8.33	0.0	11.9	0	0	0	
2005-Jul-19	13:03								Reset Total, Vol = 12.00 bbl
2005-Jul-19	13:03	105	8.33	0.0	11.9	0	0	0	
2005-Jul-19	13:04	92	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:04	87	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:04	82	8.32	0.0	0.0	0	0	0	
2005-Jul-19	13:04	78	8.32	0.0	0.0	0	0	0	
2005-Jul-19	13:05	82	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:05	78	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:05								Pressure Port Collar
2005-Jul-19	13:05	78	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:05	78	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:05	238	8.47	0.5	0.0	0	0	0	
2005-Jul-19	13:06	719	8.39	0.8	0.2	0	0	0	
2005-Jul-19	13:06	1277	8.36	0.8	0.4	0	0	0	
2005-Jul-19	13:06	1904	8.34	0.7	0.6	0	0	0	
2005-Jul-19	13:06	1973	8.34	0.0	0.7	0	0	0	
2005-Jul-19	13:07	1950	8.33	0.0	0.7	0	0	0	
2005-Jul-19	13:07	1950	8.34	0.0	0.7	0	0	0	
2005-Jul-19	13:07	1950	8.33	0.0	0.7	0	0	0	
2005-Jul-19	13:07	1295	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:07	1167	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:07								TIH 2 Joints
2005-Jul-19	13:08	279	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:08	18	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:08	18	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:08	18	8.33	0.0	0.0	0	0	0	
2005-Jul-19	13:09	18	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:09	14	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:09	9	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:09	9	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:10	9	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:10	14	8.30	0.0	0.0	0	0	0	
2005-Jul-19	13:10	9	8.31	0.0	0.0	0	0	0	
2005-Jul-19	13:10	46	8.53	3.7	0.6	0	0	0	
2005-Jul-19	13:20								Pressure Test Lines
2005-Jul-19	13:20	23	8.31	0.0	0.8	0	0	0	
2005-Jul-19	13:21	23	8.31	0.0	0.8	0	0	0	
2005-Jul-19	13:21	96	8.31	0.0	0.8	0	0	0	
2005-Jul-19	13:21	407	8.30	0.0	0.8	0	0	0	
2005-Jul-19	13:21	101	8.30	0.0	0.8	0	0	0	
2005-Jul-19	13:22	23	8.31	0.0	0.9	0	0	0	
2005-Jul-19	13:22	211	8.30	1.0	0.1	0	0	0	

Well		Field			Service Date		Customer			Job Number
HERTLIEN B #2		SALLEY			05200-Jul-19		OXY USA, INC.			2205548223
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbbl/min	bbbl	0	0	0		
2005-Jul-19	13:22								Reverse Circulate	
2005-Jul-19	13:22	458	8.30	2.6	0.3	0	0	0		
2005-Jul-19	13:22	476	8.30	2.4	0.6	0	0	0		
2005-Jul-19	13:22	554	8.31	2.3	1.2	0	0	0		
2005-Jul-19	13:23	609	8.31	2.3	1.8	0	0	0		
2005-Jul-19	13:23	609	8.31	2.4	2.4	0	0	0		
2005-Jul-19	13:23	604	8.31	2.3	3.0	0	0	0		
2005-Jul-19	13:23	600	8.31	2.3	3.5	0	0	0		
2005-Jul-19	13:24	641	8.31	2.5	4.2	0	0	0		
2005-Jul-19	13:24	645	8.31	2.4	4.8	0	0	0		
2005-Jul-19	13:24	645	8.31	2.4	5.4	0	0	0		
2005-Jul-19	13:24	641	8.31	2.4	6.0	0	0	0		
2005-Jul-19	13:25	632	8.31	2.5	6.6	0	0	0		
2005-Jul-19	13:25	645	8.31	2.4	7.2	0	0	0		
2005-Jul-19	13:25	645	8.31	2.5	7.8	0	0	0		
2005-Jul-19	13:25	641	8.31	2.4	8.5	0	0	0		
2005-Jul-19	13:26	645	8.31	2.4	9.1	0	0	0		
2005-Jul-19	13:26	627	8.31	2.4	9.7	0	0	0		
2005-Jul-19	13:26	636	8.31	2.4	10.3	0	0	0		
2005-Jul-19	13:26	636	8.31	2.5	10.9	0	0	0		
2005-Jul-19	13:27	613	8.31	2.5	11.5	0	0	0		
2005-Jul-19	13:27	558	8.31	2.4	12.1	0	0	0		
2005-Jul-19	13:27	504	8.31	2.4	12.7	0	0	0		
2005-Jul-19	13:27	485	8.31	2.5	13.4	0	0	0		
2005-Jul-19	13:28	439	8.31	3.0	14.1	0	0	0		
2005-Jul-19	13:28	394	8.31	2.6	14.7	0	0	0		
2005-Jul-19	13:28	385	8.31	2.6	15.4	0	0	0		
2005-Jul-19	13:28	375	8.31	2.6	16.0	0	0	0		
2005-Jul-19	13:29	394	8.31	2.5	16.6	0	0	0		
2005-Jul-19	13:29	389	8.31	2.5	17.3	0	0	0		
2005-Jul-19	13:29	389	8.31	2.5	17.9	0	0	0		
2005-Jul-19	13:29	375	8.31	2.6	18.5	0	0	0		
2005-Jul-19	13:30	394	8.31	2.6	19.2	0	0	0		
2005-Jul-19	13:30	389	8.31	2.6	19.8	0	0	0		
2005-Jul-19	13:30	389	8.31	2.5	20.5	0	0	0		
2005-Jul-19	13:30	375	8.31	2.5	21.1	0	0	0		
2005-Jul-19	13:31	380	8.31	2.6	21.7	0	0	0		
2005-Jul-19	13:31	394	8.31	2.6	22.4	0	0	0		
2005-Jul-19	13:31	389	8.31	2.5	23.0	0	0	0		
2005-Jul-19	13:31	389	8.31	2.5	23.6	0	0	0		
2005-Jul-19	13:32	375	8.31	2.5	24.3	0	0	0		
2005-Jul-19	13:32	394	8.31	2.5	24.9	0	0	0		
2005-Jul-19	13:32	389	8.31	2.6	25.5	0	0	0		
2005-Jul-19	13:32	14	8.31	0.0	25.7	0	0	0		
2005-Jul-19	13:33	14	8.31	0.0	25.7	0	0	0		
2005-Jul-19	13:33								Reset Total, Vol = 25.84 bbl	
2005-Jul-19	13:33	18	8.31	0.0	25.7	0	0	0		

Well		Field		Service Date		Customer		Job Number	
HERTLIEN B #2		SALLEY		05200-Jul-19		OXY USA, INC.		2205548223	
Date	Time	Treating Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	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		
3.5			4	112		20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1300		900				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					
%	110 bbl	11.8 bbl	°F						
Customer or Authorized Representative			Schlumberger Supervisor			Ousley, John		<input checked="" type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Willimon, Wes									

Date	07/15/05
Company	OXY USA
Job Number	2205548944
Well Name	HERTLIEN
Well Number	B' 2
County	Seward
State	KS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	6584.38	
Shoe Length	85.64	
Insert Depth	6498.74	
Hole Size	7 7/8	
Hole Depth	6600	

1st System	
240 sacks	50/50 Poz/H
1.55 yield	2%D20+3%M117+0.25%D65+0.25%D46
13.8 weight	.+0.25%D112+ 5ppsD42+5ppsD53
7.1 water	40.6
cubic ft.	372
height	1632
bbls	66.3

372

Pipe Volume	104.7
Annular Volume	267
Total Cement	66
Total Water	144

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3868	

2nd System	
sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

Casing lift	4347
Cement lift	824

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

Test ~~4000~~ 2500 psi

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

20 CW100

66 Lead 13.9

0 Tail 0

103.3 Displacement
Fresh Water

Mud density 9.2

Pump Time @ 5 BPM 34 MIN

THE FOLLOWING GENERAL TERMS AND CONDITIONS OF THIS CONTRACT CONTAIN INDEMNITY PROVISIONS - PLEASE READ CAREFULLY.

1. **Acceptance** By requesting Schlumberger's services, equipment, or products, Customer voluntarily elects to enter into and be bound by these General Terms and Conditions
2. **Definition.**
 - a. Schlumberger — Schlumberger Technology Corporation, a Texas corporation
 - b. Customer — the person, firm or other entity to which equipment and/or services are supplied or provided.
 - c. Group — Either Schlumberger or Customer and its respective parents, affiliates, subsidiaries, and each of their respective officers, directors, employees, agents and invitees.
3. **Terms** Cash in advance unless Schlumberger has approved Customer's credit prior to the sale. Terms of sale for credit-approved accounts are total invoice amount due on or before the 30th day from the date of invoice. Customer shall pay interest on past due balances at the lesser of 1.5% per month or the maximum allowed by applicable state or federal law. If Customer's account becomes delinquent, Schlumberger shall have the right to revoke any and all previously applied discounts. Upon such revocation, the full invoice price without discount will become immediately due and owing and subject to collection. Customer hereby agrees to pay all fees directly or indirectly incurred in the collection of past due or delinquent accounts
4. **Taxes.** Customer shall pay any and all taxes or other levies (other than income taxes) imposed by any government, governmental unit or similar authority with respect to the charges made or payments received in connection with Schlumberger's services, equipment or products
5. **Independent Contractor.** Schlumberger is and shall be an independent contractor with respect to the performance of the services set forth on this Service Contract, and neither Schlumberger nor anyone employed by Schlumberger shall be the agent, representative, employee or servant of Customer in the performance of such services or any part hereof. When Contractor's employees (defined to include Schlumberger's direct, borrowed, special, or statutory employees) are covered by the Louisiana Workers' Compensation Act, La R.S. 23:1021 *et seq.*, Customer and Schlumberger agree that all work and operations performed by Schlumberger and its employees pursuant to this Contract are an integral part of and are essential to the ability of Customer to generate Customer's goods, products and services for purposes of La R.S. 23:1061 (A)(1). Furthermore, Customer and Schlumberger agree that Customer is the statutory employer of Schlumberger's employees for purposes of La R.S. 23:1061 (A)(3). In respect of Customer's status as the statutory employer or special employer (as defined in La R.S. 23:1031 (C)) of Schlumberger's employees, Schlumberger shall remain primarily responsible for the payment of Louisiana workers' compensation benefits to its employees, and shall not be entitled to seek contribution for any such payments from Customer.
6. **Obligations of Customer**
 - (a) **Well Conditions; Notification of Hazardous Conditions.** Customer, having custody and control of the well and superior knowledge of the conditions in and surrounding it, shall provide Schlumberger with all necessary information to enable Schlumberger to perform its services safely and efficiently. Schlumberger's equipment is designed to operate under conditions normally encountered in the well bore; however, if hazardous or unusual conditions exist, Customer shall notify Schlumberger in advance and make special arrangements for servicing such wells.
 - (b) **Chemicals.** The handling and disposal of any chemical, waste or by-product used or generated ("Chemicals") in the performance of the services are the sole responsibility of Customer, who is the owner and generator thereof. Customer agrees that it will transport and dispose of any such Chemicals in accordance with all applicable federal, state and local laws and regulations. Customer hereby waives, releases and agrees not to assert any claim or bring any cost recovery action against Schlumberger in connection with the use, generation, storage, transportation or disposal of Chemicals under any common law, federal, state or local environmental laws or regulations, now existing or hereinafter enacted, without regard to the cause or causes thereof or the negligence of any party.
 - (c) **Radioactive Sources** If any radioactive source is lost in a well, at the well site, while being transported by Customer or a third-party on behalf of Customer, or while under the custody or control of Customer, Customer shall exert its best efforts to recover the source and shall take precautions in order to avoid breaking or damaging the source. If the source is not recovered, or if the container is broken, Customer shall immediately comply with all applicable laws and regulations, including the isolation and marking of the location of the source
 - (d) **Fishing Operations.** Customer shall assume the entire responsibility for operations in which Customer or its representatives attempt to fish for equipment but Schlumberger will, without assuming liability and if so requested by Customer, render assistance for the recovery of such equipment
7. **Warranty for Products and Services.**
 - (a) Schlumberger represents and warrants that all services shall be performed in a good and workmanlike manner in accordance with good oilfield practices and that it shall exercise diligence to insure the correctness and safe transport of all log, test and other data. Schlumberger will give Customer the benefit of its best judgment based on its experience interpreting information and making written or oral recommendations concerning logs or tests or other data, type or amount of material or service required, manner of performance or predicting results. Nevertheless, all such recommendations or predictions are opinions only and in view of the impracticability of obtaining first-hand knowledge of the many variable conditions, the reliance on inferences, measurements and assumptions which are not infallible, and/or the necessity of relying on facts and supporting services furnished by others, **NO WARRANTY IS GIVEN CONCERNING THE ACCURACY OR COMPLETENESS OF LOG, TEST OR OTHER DATA, THE EFFECTIVENESS OF MATERIAL USED, RECOMMENDATIONS GIVEN, OR RESULTS OF THE SERVICES RENDERED. SCHLUMBERGER WILL NOT BE RESPONSIBLE FOR ACCIDENTAL OR INTENTIONAL INTERCEPTION OF OR TAMPERING WITH DATA BY OTHERS, NOR DOES SCHLUMBERGER GUARANTEE THE SAFE STORAGE OR THE LENGTH OF TIME OF STORAGE OF ANY DIGITAL TAPES, OPTICAL LOGS OR PRINTS, OR OTHER SIMILAR PRODUCTS OR MATERIALS.**
 - (b) Schlumberger warrants that products (including but not limited to tools, supplies and materials) furnished shall conform to the quality and specifications represented. Schlumberger warrants all its products to be free of defects in material and workmanship for a period of twelve (12) months from the date of installation or eighteen (18) months from the date of shipment, whichever occurs first.
 - The above warranty does not apply to:
 - (i) products that have been modified and/or subjected to improper handling, storage, installation, operation or maintenance or to any product normally consumed in operation;
 - (ii) any item which is purchased by Schlumberger or furnished by Customer as a component part of a product, or not manufactured by Schlumberger and purchased for Customer except to the extent to which such items are covered by the warranty, if any, of the original manufacturer thereof;
 - (iii) the design on those jobs where Schlumberger prepares shop drawings, tracing drawings or lists from designs furnished by others;
 - (iv) models or samples which are furnished to Customer as illustrations only of the general properties of Schlumberger's products and workmanship;
 - (v) damage to a product caused by abrasive materials, corrosion due to aggressive fluids, lightning, improper voltage supply, mishandling or misapplication.
 - (c) Schlumberger's liability under its warranty is expressly limited to the repair, replacement or the refund of an equitable portion of the purchase price, at its sole option, of products or services which prove to be defective within the warranty period. A Customer claim made pursuant to this warranty shall be made immediately upon discovery and confirmed in writing within thirty (30) days after discovery of the defect. Defective items must be held for inspection and returned to the original F.O.B. point upon request. Schlumberger shall have the right to inspect the products claimed to be defective and shall have the right

In determine the cause of such defect. Returned products shall become the property of Schlumberger.

THE FOREGOING WARRANTIES FOR SERVICES AND PRODUCTS ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY. IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY SHALL NOT APPLY. SCHLUMBERGER'S WARRANTY OBLIGATIONS AND CUSTOMER'S REMEDIES THEREUNDER (EXCEPT AS TO TITLE) ARE SOLELY AND EXCLUSIVELY AS STATED HEREIN.

8. **INDEMNITIES**
 - (a) **Personnel**
 1. SCHLUMBERGER SHALL BE RESPONSIBLE FOR AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP AND ITS INSURERS AGAINST ALL CLAIMS ARISING OUT OF OR IN CONNECTION WITH PERSONAL INJURY, ILLNESS OR DEATH OF ANY MEMBER OF SCHLUMBERGER GROUP OR ITS SUBCONTRACTORS.
 2. CUSTOMER SHALL BE RESPONSIBLE FOR AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS SCHLUMBERGER GROUP AND ITS INSURERS AGAINST ALL CLAIMS ARISING OUT OF OR IN CONNECTION WITH PERSONAL INJURY, ILLNESS OR DEATH OF ANY MEMBER OF CUSTOMER GROUP OR ITS CONTRACTORS (OTHER THAN SCHLUMBERGER) AND SUBCONTRACTORS.
 - (b) **Property**

CUSTOMER ASSUMES ALL LIABILITY FOR, AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD THE SCHLUMBERGER GROUP AND THEIR INSURERS HARMLESS FROM AND AGAINST ALL DAMAGE, LOSS, LIABILITY, CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER (INCLUDING ALL COSTS AND EXPENSES THEREOF AND REASONABLE ATTORNEY'S FEES) ARISING IN CONNECTION THEREWITH:

 1. ON ACCOUNT OF LOSS OF AND/OR DAMAGE TO THE CUSTOMER GROUP OR ITS CONTRACTORS' (OTHER THAN SCHLUMBERGER) OR SUBCONTRACTORS' PROPERTY;
 2. ON ACCOUNT OF LOSS OF OR DAMAGE TO SCHLUMBERGER PROPERTY, EQUIPMENT, MATERIALS OR PRODUCTS, INCLUDING BUT NOT LIMITED TO, RECOVERY, REPAIR AND REPLACEMENT EXPENSES, WHEN SUCH LOSS OR DAMAGE OCCURS: (i) IN THE HOLE, (ii) WHILE IN TRANSIT OR BEING MOVED ON ANY FORM OF TRANSPORTATION OWNED OR FURNISHED BY CUSTOMER, (iii) WHILE LOCATED AT THE WELL SITE WHEN SCHLUMBERGER PERSONNEL ARE NOT PRESENT, (iv) AS A RESULT OF IMPROPERLY MAINTAINED, PRIVATE ACCESS ROADS TO THE WELLSITE, OR (v) WHILE BEING USED BY OR WHILE UNDER THE CUSTODY OR CONTROL OF ANY PERSON OTHER THAN A SCHLUMBERGER EMPLOYEE, WHETHER IN AN EMERGENCY OR OTHERWISE. THE PROPERTY, EQUIPMENT, MATERIALS AND PRODUCTS WILL BE VALUED AT THEIR RESPECTIVE LANDED REPLACEMENT COST. WITH RESPECT TO (i) ABOVE, RENTAL CHARGES ON THE EQUIPMENT LOST OR DAMAGED IN THE HOLE SHALL CONTINUE TO BE PAID UP TO AND INCLUDING THE DATE ON WHICH SCHLUMBERGER RECEIVES NOTICE IN WRITING OF THE LOSS OR DAMAGE.
 - (c) **Application of Indemnities.** THE ASSUMPTION OF LIABILITY AND INDEMNITIES IN (a) AND (b) ABOVE SHALL APPLY TO ANY LOSS, DAMAGE, EXPENSE, INJURY, ILLNESS OR DEATH WITHOUT REGARD TO THE CAUSE(S) THEREOF INCLUDING, WITHOUT LIMITATION, UNSEAWORTHINESS, STRICT LIABILITY, ULTRAHAZARDOUS ACTIVITY, BREACH OF EXPRESS OR IMPLIED WARRANTY, IMPERFECTION OF MATERIAL, DEFECT OR FAILURE OF EQUIPMENT, DEFECT OR "RUM" OR OTHER CONDITION OF PREMISES, INCLUDING ANY CONDITIONS THAT PRE-EXIST THE EXECUTION OF THIS AGREEMENT, OR THE SOLE OR CONCURRENT, ACTIVE OR PASSIVE, NEGLIGENCE OR OTHER FAULT OF THE INDEMNITEE OR ITS CONTRACTORS OR SUBCONTRACTORS OR ITS OR THEIR EMPLOYEES, AGENTS OR INVITEES.
 - (d) **Special Indemnity.** NOTWITHSTANDING ANYTHING TO THE CONTRARY HEREIN, CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY, AND HOLD SCHLUMBERGER GROUP AND THEIR INSURERS HARMLESS FROM AND AGAINST ALL LOSS, LIABILITY, CLAIMS, DEMANDS AND CAUSES OF ACTION (INCLUDING ALL COSTS, EXPENSES AND ATTORNEY'S FEES) OF EVERY KIND AND CHARACTER, WITHOUT REGARD TO THE CAUSE OR CAUSES THEREOF, THE UNSEAWORTHINESS OF ANY VESSEL, STRICT LIABILITY OR THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE OF ANY PARTY (EXCLUDING THE GROSS NEGLIGENCE OF SCHLUMBERGER GROUP), ARISING IN CONNECTION HERewith IN FAVOR OF CUSTOMER GROUP OR ITS CONTRACTORS OR SUBCONTRACTORS, SCHLUMBERGER GROUP AND ITS SUBCONTRACTORS OR ANY THIRD PARTY FOR: (i) PROPERTY DAMAGE, PERSONAL INJURY OR DEATH OR LOSS THAT RESULTS FROM BLOW-OUT, CRATERING, WILD WELL OR WORK PERFORMED TO CONTROL A WILD WELL; (ii) PROPERTY DAMAGE OR LOSS THAT RESULTS FROM POLLUTION, CONTAMINATION, OR RADIATION DAMAGE, WHETHER CAUSED BY CUSTOMER'S FAILURE TO PROPERLY HANDLE, TRANSPORT OR DISPOSE OF ANY CHEMICALS AS REQUIRED BY PARAGRAPH 6.(b) HEREOF OR OTHERWISE, INCLUDING CONTAINMENT, CLEAN-UP AND REMEDIATION OF THE POLLUTANT AND CONTAMINATION, WHETHER OR NOT REQUIRED BY AN APPLICABLE FEDERAL, STATE OR LOCAL LAW OR REGULATION; (iii) PROPERTY DAMAGE OR LOSS THAT RESULTS FROM RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES, OR WATER OR THE WELL BORE ITSELF, SURFACE DAMAGE ARISING FROM SUBSURFACE OR SUBSEA DAMAGE; (iv) COST TO CONTROL A WILD WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING ANY REDRILLING OR REWORKING AND RELATED CLEAN UP COSTS; (v) DAMAGE TO PROPERTY OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER, AND/OR WELL OWNER, IF DIFFERENT FROM CUSTOMER (THE TERM "WELL OWNER" SHALL INCLUDE WORKING AND ROYALTY INTEREST OWNERS OR THE OWNER OF ANY DRILLING RIG, PLATFORM OR OTHER STRUCTURE AT THE WELL SITE); OR (vi) SUBSURFACE TRESPASS.
 - (e) **Anti-Indemnity and Insurance Savings Clause.** If any defense, indemnity or insurance provision contained in this Contract conflicts with, is prohibited by or violates public policy under any federal, state or other law determined to be applicable to a particular situation arising from or involving any services, equipment and/or products hereunder, it is understood and agreed that the conflicting, prohibited, or violating provision shall be deemed automatically amended in that situation to the extent, but only to the extent, necessary to conform with, not be prohibited by and avoid violating public policy under such applicable law
9. **Incidental or Consequential Damages.** IT IS EXPRESSLY AGREED THAT THE SCHLUMBERGER GROUP SHALL NOT BE LIABLE TO THE CUSTOMER GROUP FOR ANY PUNITIVE, INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, ANY LOSS OF PROFITS OR BUSINESS INTERRUPTION OR LOSS OF USE, LOSS OF PRODUCTION OR LOSS OF RIG TIME
10. **Insurance** Each party, as indemnitor, shall support the indemnity obligations it assumes under Paragraph 8, by obtaining at its own cost, adequate insurance for the benefit of the other party as indemnitee, with contractual indemnity endorsements. To the extent each party assumes liability, such insurance shall waive subrogation against and name the indemnitee and its Group as additional insured(s) and loss payee, and to the same extent such coverage shall be primary to that carried by the indemnified Group. Customer shall not self-insure without the written consent of Schlumberger.
11. **Limitation of Liability.** Schlumberger's liability, however arising from or in connection with this Contract (whether for breach of contract, negligence, misrepresentation, or otherwise), shall not in any circumstances exceed the full value of the consideration then owed to Schlumberger under this Contract.
12. **Miscellaneous.** Schlumberger shall not be liable for any delay or non-performance due to governmental regulation, labor disputes, hostile action, weather, fire, acts of God or any other causes beyond the reasonable control of Schlumberger. This Contract shall be governed by the laws of the state where the services are performed or equipment or products are furnished, except if furnished offshore or on navigable water. Federal Maritime Laws will govern. Should any clause, sentence, or part of these General Terms and Conditions be held invalid, such holding shall not invalidate the remainder, and the Terms and Conditions shall be interpreted as if the invalid clause, sentence, or part has been modified or omitted, if necessary, as required to conform to the jurisdiction purporting to limit such provision

NO FIELD EMPLOYEE OF SCHLUMBERGER IS AUTHORIZED OR EMPOWERED TO ALTER THESE GENERAL TERMS AND CONDITIONS.

Well	HERTLIEN B #2		Field	SALLEY		Service Date	Customer	Job Number	
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0 Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2005-Jul-06	15:5	40	0.0	8.15	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	7.99	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.14	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.15	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.15	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.15	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.15	0.0	0	0	0	
2005-Jul-06	15:5	54	0.0	8.14	0.0	0	0	0	
2005-Jul-06	15:5	2791	0.0	8.22	0.0	0	0	0	
2005-Jul-06	15:5	2823	0.0	8.22	0.0	0	0	0	
2005-Jul-06	15:5	2791	0.0	8.22	0.0	0	0	0	
2005-Jul-06	15:5	1359	0.0	8.22	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.22	0.0	0	0	0	
2005-Jul-06	15:5	40	0.0	8.22	0.0	0	0	0	
2005-Jul-06	16:0	49	0.0	8.22	0.0	0	0	0	
2005-Jul-06	16:0	59	0.0	8.21	0.0	0	0	0	
2005-Jul-06	16:0	95	0.0	8.21	0.0	0	0	0	
2005-Jul-06	16:0	91	0.0	8.18	0.0	0	0	0	
2005-Jul-06	16:0	95	0.0	8.19	0.0	0	0	0	
2005-Jul-06	16:0	104	0.0	8.19	0.0	0	0	0	
2005-Jul-06	16:0	109	0.0	8.19	0.0	0	0	0	
2005-Jul-06	16:0	114	0.0	8.20	0.0	0	0	0	
2005-Jul-06	16:0	118	3.9	8.20	0.7	0	0	0	
2005-Jul-06	16:0	118	3.9	8.20	2.0	0	0	0	
2005-Jul-06	16:0	123	3.9	8.19	3.4	0	0	0	
2005-Jul-06	16:0	118	3.9	8.19	4.7	0	0	0	
2005-Jul-06	16:0	118	3.9	8.19	6.0	0	0	0	
2005-Jul-06	16:0								
2005-Jul-06	16:0	114	3.9	8.41	7.1	0	0	0	Start Mixing Lead Slurry
2005-Jul-06	16:0	114	3.9	8.63	7.3	0	0	0	
2005-Jul-06	16:0	132	3.9	9.64	8.4	0	0	0	
2005-Jul-06	16:0								
2005-Jul-06	16:0	136	3.9	9.73	0.1	0	0	0	Reset Total, Vol = 8.37
2005-Jul-06	16:0	136	3.9	9.80	0.3	0	0	0	End Spacer
2005-Jul-06	16:0	146	3.9	10.31	1.6	0	0	0	
2005-Jul-06	16:0	141	3.9	10.57	2.9	0	0	0	
2005-Jul-06	16:0	150	3.9	10.51	4.2	0	0	0	
2005-Jul-06	16:0	141	3.5	10.31	5.4	0	0	0	
2005-Jul-06	16:0	150	3.9	10.66	6.7	0	0	0	
2005-Jul-06	16:0	150	3.9	11.52	8.0	0	0	0	
2005-Jul-06	16:0	168	3.9	12.06	9.3	0	0	0	
2005-Jul-06	16:0	168	3.9	12.36	10.6	0	0	0	
2005-Jul-06	16:0	164	3.9	12.37	11.9	0	0	0	
2005-Jul-06	16:0	164	3.9	11.97	13.2	0	0	0	
2005-Jul-06	16:0	141	3.9	11.59	14.5	0	0	0	
2005-Jul-06	16:0	141	3.9	11.47	15.8	0	0	0	
2005-Jul-06	16:0	155	3.9	12.30	17.1	0	0	0	
2005-Jul-06	16:0	146	3.9	12.28	18.4	0	0	0	
2005-Jul-06	16:0	146	3.9	11.89	19.7	0	0	0	
2005-Jul-06	16:1	150	3.9	12.30	21.0	0	0	0	
2005-Jul-06	16:1	146	3.9	11.76	22.3	0	0	0	
2005-Jul-06	16:1	132	3.9	11.56	23.6	0	0	0	
2005-Jul-06	16:1	136	3.9	12.24	24.9	0	0	0	

Well	HERTLIEN B #2		Field	SALLEY		Service Date	Customer	Job Number	Message
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	0
2005-Jul-06	16:1	150	3.9	12.49	26.2	0	0	0	
2005-Jul-06	16:1	141	3.9	12.46	27.5	0	0	0	
2005-Jul-06	16:1	136	3.9	12.43	28.8	0	0	0	
2005-Jul-06	16:1	141	3.9	12.36	30.1	0	0	0	
2005-Jul-06	16:1	127	3.9	12.30	31.4	0	0	0	
2005-Jul-06	16:1	132	3.9	12.14	32.7	0	0	0	
2005-Jul-06	16:1	118	3.9	11.83	34.0	0	0	0	
2005-Jul-06	16:1	118	3.9	11.57	35.3	0	0	0	
2005-Jul-06	16:1	104	3.9	11.36	36.6	0	0	0	
2005-Jul-06	16:1	109	3.9	11.69	37.9	0	0	0	
2005-Jul-06	16:1	114	3.9	11.92	39.3	0	0	0	
2005-Jul-06	16:1	109	3.9	12.08	40.6	0	0	0	
2005-Jul-06	16:1	114	3.9	12.14	41.9	0	0	0	
2005-Jul-06	16:1	109	3.9	11.77	43.2	0	0	0	
2005-Jul-06	16:1	81	3.9	10.69	44.5	0	0	0	
2005-Jul-06	16:1	72	3.9	10.60	45.8	0	0	0	
2005-Jul-06	16:1	109	5.1	10.66	47.3	0	0	0	
2005-Jul-06	16:1	123	5.1	11.02	49.0	0	0	0	
2005-Jul-06	16:1	146	5.4	12.14	50.7	0	0	0	
2005-Jul-06	16:1	159	5.4	12.51	52.5	0	0	0	
2005-Jul-06	16:1	77	3.7	11.80	54.1	0	0	0	
2005-Jul-06	16:1	72	3.7	11.68	55.3	0	0	0	
2005-Jul-06	16:1	104	4.7	11.91	56.6	0	0	0	
2005-Jul-06	16:1	118	5.1	12.07	58.3	0	0	0	
2005-Jul-06	16:1	100	4.9	12.17	59.9	0	0	0	
2005-Jul-06	16:1	77	5.0	12.40	61.6	0	0	0	
2005-Jul-06	16:2	81	5.3	12.40	63.3	0	0	0	
2005-Jul-06	16:2	132	5.5	12.46	65.1	0	0	0	
2005-Jul-06	16:2	104	5.5	12.59	66.9	0	0	0	
2005-Jul-06	16:2	141	5.7	12.46	68.8	0	0	0	
2005-Jul-06	16:2	136	5.7	12.21	70.7	0	0	0	
2005-Jul-06	16:2	127	5.7	11.63	72.6	0	0	0	
2005-Jul-06	16:2	114	5.4	11.72	74.4	0	0	0	
2005-Jul-06	16:2	109	5.4	11.74	76.2	0	0	0	
2005-Jul-06	16:2	86	5.2	11.69	78.0	0	0	0	
2005-Jul-06	16:2	114	5.2	12.01	79.7	0	0	0	
2005-Jul-06	16:2	123	5.2	12.56	81.4	0	0	0	
2005-Jul-06	16:2	136	5.2	12.88	83.1	0	0	0	
2005-Jul-06	16:2	132	5.2	12.72	84.9	0	0	0	
2005-Jul-06	16:2	136	5.3	12.47	86.6	0	0	0	
2005-Jul-06	16:2	127	5.5	12.22	88.4	0	0	0	
2005-Jul-06	16:2	127	5.5	12.12	90.3	0	0	0	
2005-Jul-06	16:2	127	5.5	11.95	92.1	0	0	0	
2005-Jul-06	16:2	109	5.0	11.85	93.9	0	0	0	
2005-Jul-06	16:2	118	5.2	12.06	95.5	0	0	0	
2005-Jul-06	16:2	100	4.9	11.83	97.4	0	0	0	
2005-Jul-06	16:2	95	4.7	11.96	99.0	0	0	0	
2005-Jul-06	16:2	104	4.9	12.15	100.5	0	0	0	
2005-Jul-06	16:2	109	5.2	11.82	102.3	0	0	0	
2005-Jul-06	16:2	114	5.2	11.86	104.0	0	0	0	
2005-Jul-06	16:2	118	5.2	12.11	105.8	0	0	0	
2005-Jul-06	16:2	127	5.3	12.22	107.5	0	0	0	
2005-Jul-06	16:2	127	5.3	12.25	109.3	0	0	0	
2005-Jul-06	16:2	127	5.3	12.17	111.1	0	0	0	

Well	HERTLIEN B #2		Field	SALLEY		Service Date	Customer	Job Number	
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	Message
2005-Jul-06	16:2	91	4.4	11.53	112.6	0	0	0	
2005-Jul-06	16:2	100	4.7	11.92	114.1	0	0	0	
2005-Jul-06	16:3	109	4.9	11.92	115.7	0	0	0	
2005-Jul-06	16:3	109	4.9	12.23	117.4	0	0	0	
2005-Jul-06	16:3	86	4.3	12.25	118.9	0	0	0	
2005-Jul-06	16:3	123	5.1	12.34	120.5	0	0	0	
2005-Jul-06	16:3	95	4.6	12.03	122.1	0	0	0	
2005-Jul-06	16:3	86	4.2	12.11	123.5	0	0	0	
2005-Jul-06	16:3	81	4.1	12.21	124.9	0	0	0	
2005-Jul-06	16:3	104	4.6	12.86	126.3	0	0	0	
2005-Jul-06	16:3	91	4.2	12.55	127.8	0	0	0	
2005-Jul-06	16:3	81	4.1	12.17	129.1	0	0	0	
2005-Jul-06	16:3	77	4.1	11.68	130.5	0	0	0	
2005-Jul-06	16:3	77	4.1	12.02	131.9	0	0	0	
2005-Jul-06	16:3	72	4.1	11.60	133.3	0	0	0	
2005-Jul-06	16:3	72	4.1	12.00	134.7	0	0	0	
2005-Jul-06	16:3	77	4.1	12.21	136.0	0	0	0	
2005-Jul-06	16:3	77	4.1	12.28	137.4	0	0	0	
2005-Jul-06	16:3	72	4.0	12.17	138.8	0	0	0	
2005-Jul-06	16:3	72	4.1	12.11	140.1	0	0	0	
2005-Jul-06	16:3	72	4.0	12.14	141.5	0	0	0	
2005-Jul-06	16:3	72	4.0	12.22	142.8	0	0	0	
2005-Jul-06	16:3	77	4.0	12.17	144.1	0	0	0	
2005-Jul-06	16:3	68	4.0	11.92	145.5	0	0	0	
2005-Jul-06	16:3	63	3.6	12.16	146.7	0	0	0	
2005-Jul-06	16:3	68	3.8	12.40	147.9	0	0	0	
2005-Jul-06	16:3	81	4.2	12.50	149.4	0	0	0	
2005-Jul-06	16:3	86	4.2	12.37	150.8	0	0	0	
2005-Jul-06	16:3	81	4.2	11.97	152.2	0	0	0	
2005-Jul-06	16:3	63	3.9	11.56	153.5	0	0	0	
2005-Jul-06	16:3	54	3.6	11.32	154.8	0	0	0	
2005-Jul-06	16:3	72	4.2	11.68	156.0	0	0	0	
2005-Jul-06	16:4	95	4.3	12.32	157.4	0	0	0	
2005-Jul-06	16:4	54	3.8	10.86	158.6	0	0	0	
2005-Jul-06	16:4	40	3.6	10.81	159.9	0	0	0	
2005-Jul-06	16:4	81	4.6	11.49	161.2	0	0	0	
2005-Jul-06	16:4	72	4.2	11.43	162.6	0	0	0	
2005-Jul-06	16:4	100	4.6	12.66	164.1	0	0	0	
2005-Jul-06	16:4	109	4.8	12.37	165.7	0	0	0	
2005-Jul-06	16:4	100	5.0	11.60	167.4	0	0	0	
2005-Jul-06	16:4	95	4.8	12.09	168.9	0	0	0	
2005-Jul-06	16:4	100	4.8	12.31	170.5	0	0	0	
2005-Jul-06	16:4	81	4.1	12.25	172.1	0	0	0	
2005-Jul-06	16:4	86	4.1	12.48	173.5	0	0	0	
2005-Jul-06	16:4	86	4.1	12.54	174.8	0	0	0	
2005-Jul-06	16:4	72	3.6	12.58	176.1	0	0	0	
2005-Jul-06	16:4	68	3.6	12.46	177.3	0	0	0	
2005-Jul-06	16:4	59	3.6	11.68	178.5	0	0	0	
2005-Jul-06	16:4	49	3.6	11.03	179.7	0	0	0	
2005-Jul-06	16:4	86	4.9	11.41	181.2	0	0	0	
2005-Jul-06	16:4	109	5.2	12.09	182.9	0	0	0	
2005-Jul-06	16:4	123	5.5	12.07	184.7	0	0	0	
2005-Jul-06	16:4	127	5.7	11.90	186.6	0	0	0	
2005-Jul-06	16:4	127	5.7	11.86	188.5	0	0	0	

Well	HERTLIEN B #2		Field	SALLEY		Service Date	Customer	Job Number	Message
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2005-Jul-06	16:4	132	5.7	11.98	190.4	0	0	0	
2005-Jul-06	16:4	150	5.7	12.62	192.3	0	0	0	
2005-Jul-06	16:4	150	5.7	12.61	194.2	0	0	0	
2005-Jul-06	16:4	150	5.7	12.44	196.1	0	0	0	
2005-Jul-06	16:4	141	5.7	12.37	198.0	0	0	0	
2005-Jul-06	16:4	146	5.7	12.46	199.9	0	0	0	
2005-Jul-06	16:4	146	5.7	12.62	201.9	0	0	0	
2005-Jul-06	16:4	150	5.7	12.62	203.8	0	0	0	
2005-Jul-06	16:5	146	5.7	12.44	205.7	0	0	0	
2005-Jul-06	16:5	146	5.7	12.27	207.6	0	0	0	
2005-Jul-06	16:5	136	5.7	12.17	209.5	0	0	0	
2005-Jul-06	16:5	132	5.7	12.03	211.4	0	0	0	
2005-Jul-06	16:5	127	5.7	11.86	213.3	0	0	0	
2005-Jul-06	16:5	127	5.7	11.75	215.3	0	0	0	
2005-Jul-06	16:5	136	5.7	12.27	217.2	0	0	0	
2005-Jul-06	16:5	146	5.7	12.30	219.1	0	0	0	
2005-Jul-06	16:5	146	5.7	12.28	221.0	0	0	0	
2005-Jul-06	16:5	136	5.5	12.31	222.8	0	0	0	
2005-Jul-06	16:5	141	5.6	12.33	224.6	0	0	0	
2005-Jul-06	16:5	136	5.6	12.32	226.5	0	0	0	
2005-Jul-06	16:5	132	5.6	12.07	228.4	0	0	0	
2005-Jul-06	16:5	95	4.8	11.29	230.1	0	0	0	
2005-Jul-06	16:5	72	4.1	11.32	231.7	0	0	0	
2005-Jul-06	16:5	81	4.3	12.12	232.8	0	0	0	Reset Total, Vol = 232.82
2005-Jul-06	16:5	86	4.3	12.21	0.2	0	0	0	End Lead Slurry
2005-Jul-06	16:5	86	4.2	12.24	0.3	0	0	0	Start Mixing Tail Slurry
2005-Jul-06	16:5	100	4.3	12.71	1.7	0	0	0	
2005-Jul-06	16:5	114	4.6	12.72	3.2	0	0	0	
2005-Jul-06	16:5	123	4.8	12.93	4.8	0	0	0	
2005-Jul-06	16:5	173	5.7	13.50	6.6	0	0	0	
2005-Jul-06	16:5	191	5.7	13.81	8.5	0	0	0	
2005-Jul-06	16:5	205	5.7	13.93	10.4	0	0	0	
2005-Jul-06	16:5	210	5.7	13.96	12.3	0	0	0	
2005-Jul-06	16:5	205	5.7	13.96	14.2	0	0	0	
2005-Jul-06	16:5	132	3.9	13.95	16.0	0	0	0	
2005-Jul-06	16:5	123	3.9	14.13	17.3	0	0	0	
2005-Jul-06	16:5	141	3.8	14.53	19.1	0	0	0	
2005-Jul-06	16:5	132	3.9	14.56	20.4	0	0	0	
2005-Jul-06	16:5	118	5.4	14.60	22.1	0	0	0	
2005-Jul-06	16:5	127	3.9	14.59	23.4	0	0	0	
2005-Jul-06	17:0	136	3.9	14.68	24.7	0	0	0	
2005-Jul-06	17:0	136	3.9	14.77	26.0	0	0	0	
2005-Jul-06	17:0	136	3.9	14.81	27.3	0	0	0	
2005-Jul-06	17:0	141	3.9	14.75	28.7	0	0	0	
2005-Jul-06	17:0	136	3.9	14.85	30.0	0	0	0	
2005-Jul-06	17:0	146	3.9	15.15	31.3	0	0	0	
2005-Jul-06	17:0	155	3.9	15.25	32.6	0	0	0	
2005-Jul-06	17:0	150	3.9	15.26	33.9	0	0	0	
2005-Jul-06	17:0	146	3.9	15.04	35.2	0	0	0	
2005-Jul-06	17:0	141	3.9	15.00	36.5	0	0	0	
2005-Jul-06	17:0	136	3.9	14.91	37.8	0	0	0	

Well	Field	Service Date	Customer	Job Number						
HERTLIEN B #2	SALLEY	05187-Jul-06	OXY USA, INC.	2205548216						
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	0	
2005-Jul-06	17:0	127	3.7	14.92	39.1	0	0	0	0	
2005-Jul-06	17:0	132	3.9	15.07	40.3	0	0	0	0	
2005-Jul-06	17:0	132	3.9	14.88	41.6	0	0	0	0	
2005-Jul-06	17:0	91	3.2	14.63	42.8	0	0	0	0	
2005-Jul-06	17:0	77	2.6	15.00	43.7	0	0	0	0	
2005-Jul-06	17:0	63	2.9	15.25	44.7	0	0	0	0	
2005-Jul-06	17:0	36	0.0	2.94	44.8	0	0	0	0	
2005-Jul-06	17:0	36	0.0	2.76	44.8	0	0	0	0	End Tail Slurry
2005-Jul-06	17:0	36	0.0	2.62	44.8	0	0	0	0	Reset Total, Vol = 44.77
2005-Jul-06	17:0	36	0.0	2.53	0.0	0	0	0	0	Drop Top Plug
2005-Jul-06	17:0	36	0.0	2.49	0.0	0	0	0	0	Start Displacement
2005-Jul-06	17:0	31	0.0	2.24	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.17	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.29	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.42	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.52	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.58	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.64	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.69	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.73	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.76	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.78	0.0	0	0	0	0	
2005-Jul-06	17:0	31	0.0	2.82	0.0	0	0	0	0	
2005-Jul-06	17:1	31	0.0	2.84	0.0	0	0	0	0	
2005-Jul-06	17:1	31	0.0	2.86	0.0	0	0	0	0	
2005-Jul-06	17:1	31	0.0	2.89	0.0	0	0	0	0	
2005-Jul-06	17:1	31	0.0	2.90	0.0	0	0	0	0	
2005-Jul-06	17:1	31	0.0	2.92	0.0	0	0	0	0	
2005-Jul-06	17:1	54	1.2	2.94	0.0	0	0	0	0	
2005-Jul-06	17:1	86	3.3	10.50	0.8	0	0	0	0	
2005-Jul-06	17:1	45	3.9	10.08	2.0	0	0	0	0	
2005-Jul-06	17:1	91	3.9	9.48	3.4	0	0	0	0	
2005-Jul-06	17:1	81	3.9	8.76	4.7	0	0	0	0	
2005-Jul-06	17:1	77	3.9	8.46	6.0	0	0	0	0	
2005-Jul-06	17:1	72	3.9	8.28	7.3	0	0	0	0	
2005-Jul-06	17:1	86	3.9	8.18	8.6	0	0	0	0	
2005-Jul-06	17:1	95	3.9	8.06	9.9	0	0	0	0	
2005-Jul-06	17:1	141	3.9	8.09	11.2	0	0	0	0	
2005-Jul-06	17:1	141	3.9	8.05	12.5	0	0	0	0	
2005-Jul-06	17:1	155	3.8	8.00	13.9	0	0	0	0	
2005-Jul-06	17:1	196	4.0	8.19	15.1	0	0	0	0	
2005-Jul-06	17:1	173	5.7	8.19	17.0	0	0	0	0	
2005-Jul-06	17:1	187	5.7	8.20	18.9	0	0	0	0	
2005-Jul-06	17:1	219	5.7	8.20	20.8	0	0	0	0	
2005-Jul-06	17:1	210	5.7	8.20	22.7	0	0	0	0	
2005-Jul-06	17:1	237	3.9	8.21	24.3	0	0	0	0	
2005-Jul-06	17:1	237	3.9	8.21	25.6	0	0	0	0	
2005-Jul-06	17:1	246	3.9	8.21	26.9	0	0	0	0	
2005-Jul-06	17:1	219	3.9	8.22	28.2	0	0	0	0	
2005-Jul-06	17:1	219	3.9	8.22	29.5	0	0	0	0	

Well	HERTLIEN B #2		Field	SALLEY		Service Date	Customer	Job Number	
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0 Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2005-Jul-06	17:1	233	3.9	8.22	30.8	0	0	0	
2005-Jul-06	17:1	251	3.9	8.22	32.1	0	0	0	
2005-Jul-06	17:1	242	3.9	8.22	33.4	0	0	0	
2005-Jul-06	17:2	246	3.9	8.22	34.7	0	0	0	
2005-Jul-06	17:2	283	3.9	8.22	36.0	0	0	0	
2005-Jul-06	17:2	246	5.7	8.22	37.9	0	0	0	
2005-Jul-06	17:2	255	5.7	8.22	39.8	0	0	0	
2005-Jul-06	17:2	269	5.7	8.22	60.2	0	0	0	
2005-Jul-06	17:2	278	5.7	8.22	62.1	0	0	0	
2005-Jul-06	17:2	297	5.7	8.22	64.0	0	0	0	
2005-Jul-06	17:2	301	5.7	8.22	65.9	0	0	0	
2005-Jul-06	17:2	320	5.7	8.22	67.8	0	0	0	
2005-Jul-06	17:2	315	5.7	8.22	69.7	0	0	0	
2005-Jul-06	17:2	333	5.7	8.22	71.6	0	0	0	
2005-Jul-06	17:2	342	5.7	8.22	73.5	0	0	0	
2005-Jul-06	17:2	356	5.7	8.22	75.4	0	0	0	
2005-Jul-06	17:2	374	5.7	8.22	77.4	0	0	0	
2005-Jul-06	17:2	388	5.7	8.22	79.3	0	0	0	
2005-Jul-06	17:2	402	5.7	8.22	81.2	0	0	0	
2005-Jul-06	17:2	402	5.7	8.22	83.1	0	0	0	
2005-Jul-06	17:2	425	5.7	8.22	85.0	0	0	0	
2005-Jul-06	17:2	429	5.7	8.22	87.0	0	0	0	
2005-Jul-06	17:2	443	5.7	8.22	88.9	0	0	0	
2005-Jul-06	17:2	466	5.7	8.22	90.8	0	0	0	
2005-Jul-06	17:2	484	5.7	8.22	92.7	0	0	0	
2005-Jul-06	17:2	475	5.7	8.22	94.6	0	0	0	
2005-Jul-06	17:2	498	5.7	8.22	96.5	0	0	0	
2005-Jul-06	17:2	411	2.6	8.22	97.4	0	0	0	
2005-Jul-06	17:2	416	2.5	8.22	98.2	0	0	0	
2005-Jul-06	17:2	434	2.5	8.22	99.1	0	0	0	
2005-Jul-06	17:2	425	2.5	8.22	99.9	0	0	0	
2005-Jul-06	17:2	439	2.5	8.22	100.7	0	0	0	
2005-Jul-06	17:2	457	2.5	8.22	101.5	0	0	0	
2005-Jul-06	17:3	475	2.5	8.22	102.4	0	0	0	
2005-Jul-06	17:3	480	2.5	8.22	103.2	0	0	0	
2005-Jul-06	17:3	475	2.5	8.22	104.0	0	0	0	
2005-Jul-06	17:3	484	2.5	8.22	104.8	0	0	0	
2005-Jul-06	17:3	892	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	892	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	901	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	905	0.0	8.23	105.5	0	0	0	
2005-Jul-06	17:3								End Displacement
2005-Jul-06	17:3	699	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	576	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3								Bump Top Plug
2005-Jul-06	17:3	516	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	4	0.0	8.22	105.5	0	0	0	
2005-Jul-06	17:3	13	0.0	8.22	105.5	0	0	0	

Well	HERTLIEN B #2		Field	SALLEY	Service Date	05187-Jul-06	Customer	OXY USA, INC.	Job Number	2205548216
Date	Time	Treating	Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		

Post Job Summary

Slurry	Average Pump Rates, N2		Mud	bpm	Maximum Rate	Total Slurry	Volume of Fluid Mud	Spacer	bbl	N2
	4				8	286			10	
Maximum	Final	Treating Pressure Summary, psi			Breakdown	Breakdown Fluid Volume		Density		
2000		Average	Bump Plug to	900			bbl	lb/gal	Cement Circulated to Surface?	
Avg. N2 Percent	70	100	Volume	Displacement	Mix Water Temp					
Volume	%	286 bbl	107 bbl	°F	Washed Thru Perfs	To	ft			
Customer or Authorized Representative	Willimon, Wes			Schlumberger Supervisor	Hulsey, Jason	CirculationLost	Job Completed			

Service Order

2005-Oct-28

Customer OXY USA, INC. Well Name and Number HERTLIEN B 2 Well Master:	Person Taking Call Pathak, Rakesh Legal Location SEC API / UWI: 0630710658	Dowell Location Perryton, TX County SEWARD	OrderDate 2005-Jul-03 Job Number 2205548216 State/Province KANSAS
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Rig Name MURFIN 20 Time Well Ready:	Well Age New Deviation	Sales Engineer Cambern, Charles Well MD 1,719 ft	Job Type Cem Surface Casing BHP 1,719 ft
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Treat Down Casing	Packer Type	Packer Depth ft	WellHead Connection 8 5/8" H&SM	HHP on Location	Max Allowed Pressure 2000	psi 98 °F	°F
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Depth, Depth, 1718.26	ft Size, 8.63	in Weight, 24	lb/ft 1718.26	Grade 8RD	Thread 615 SK 35:65	Cement 1750 ft of 8 5/8 Casing with: POZ:CLASS C + 6% D020 + 2% S001 + 0.5 pps D029
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Depth,	Size, in	Weight, lb/ft	Grade	Thread	195 SK CLASS C + 2% S001 + 0.25 pps D029 Displace with FreshWater
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Extra Equipment:

- 1 CemCAT
- 1 Airlide
- 1 ABT
- 1 PUMP

Perforated Intervals

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	Diameter in
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Expected On Location:

Ready To Pump:

Contact Wes Willimon RODNEY-MURFIN 20	Voice	Mobile 620-655-1756 1 785 694 3669	FAX	Notes
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Notes:
TAKE 8 5/8" H&M. TAKE ONE 8 5/8" TOP PLASTIC PLUG

Directions:
PEX -> Take North Loop to Hwy 83, turn right, go to Liberal, take by-pass North of town, on North edge of Liberal on Hwy 83 go 1 mi North to Sally Road, T/R (East) for 1 mi, T/R (South) for 1/2 mi, T/L (East) for ~1/4 mi

Other Notes:
FOLLOW ALL WS SAFETY STANDARDS, WATCH OUT FOR TRAFFIC WHEN TURNING ONTO LEASE RD

Comments:

Fluid Systems:

LEAD

615 SK 35:65 POZ:C+6% D020 + 2% S001 + 0.5 pps D029

Density: 12.2 lb/gal Thickening Time:
Yield: 2.18 ft³/sk
H2O Mix: 12.3 gal/sk
H2O: 7564.5 gal Eq. Sack Weight: 88.9 lb
Total Blend: 615 sacks

Dowell Code	Conc/ Amount	Total Quantity
D029	0.5 lbs/sk	307.5
S001	1.778 lbs/sk	1093.47
D020	5.334 lbs/sk	3280.41
D132	27.8 lbs/sk	17097
CLASS C	61.1 lbs/sk	37576.5

TAIL

195 SK CLASS C + 2% S001 + 0.25 pps D029

Density: 14.8 lb/gal Thickening Time:
Yield: 1.34 ft³/sk
H2O Mix: 6.353 gal/sk
H2O: 1238.835 gal Eq. Sack Weight: 94 lb
Total Blend: 195 sacks

Dowell Code	Conc/ Amount	Total Quantity
S001	1.88 lbs/sk	366.6
D029	0.25 lbs/sk	48.75
CLASS C	94 lbs/sk	18330



~~CONFIDENTIAL~~
Cementing Service Report

Customer OXY USA, INC.						Job Number 2205548944								
Well HERTLIEN B 2			Location (legal) SEC 22-T34S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Jul-16					
Field SALLEY		Formation Name/Type			Deviation		Bit Size 7.88 in	Well MD 6,600 ft	Well TVD 6,600 ft					
County SEWARD		State/Province KANSAS			BHP 667 psi	BHST 147 °F	BHCT °F	Pore Press. Gradient psi/ft						
Well Master: 0630710658		API / UW: 15-175-219910000			Casing/Liner									
Rig Name MURFIN 20	Drilled For Gas		Service Via Land		Depth, ft 6584.38	Size, in 4.5	Weight, lb/ft 10.5	Grade P44	Thread STC					
Offshore Zone	Well Class New		Well Type Development		Tubing/Drill Pipe									
Drilling Fluid Type		Max. Density 9.2 lb/gal	Plastic Viscosity 40 cp	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread						
Service Line Cementing		Job Type Cem Prod Casing				Perforations/Open Hole								
Max. Allowed Tubing Pressure 3540 psi	Max. Allowed Ann. Pressure 3540 psi		Wellhead Connection 4 1/2 HS&M		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft					
Service Instructions CEMENT 4½ PRODUCTION CASING WITH: 20 BBLs CW100 240 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPS D42+5 PPS D53+0.25 %D112+ 0.25 %D65 + 0.25%D46 DISPLACE W/FRESH WATER					Diameter in	Treat Down Casing	Displacement 103.3 bbl	Packer Type	Packer Depth ft					
					Tubing Vol. bbl	Casing Vol. 104.7 bbl	Annular Vol. 267 bbl	Open Hole Vol. 372 bbl						
					<input type="checkbox"/> Casing/Tubing Secured					<input checked="" type="checkbox"/> 1 Hole Volume Circulated prior to Cementing				
					Casing Tools					Squeeze Job				
Lift Pressure: 450 psi					Shoe Type: Guide		Squeeze Type							
Pipe Rotated <input type="checkbox"/>					Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Depth: 6584.38 ft		Tool Type:					
No. Centralizers: 1		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: 7/15/2005		Arrived on Location: 2005-Jul-15 23:30		Leave Location: 2005-Jul-16 4:40		Collar Type: Auto-Fill		Tail Pipe Depth: ft						
					Collar Depth: 6494.74 ft		Sqz Total Vol: bbl							
Date	Time	Pressure	Density	CMT VOL	CMT RATE	CMT NRD RATE	0	0	Message					
	24 hr clock	psi	lb/gal	bbl	bbl/min	bbl/min	0	0						
2005-Jul-16	2:29	0	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:30								Reset Total, Vol = 0.00 bbl					
2005-Jul-16	2:30	0	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:30								Fill up Lines					
2005-Jul-16	2:30	0	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:30								Drop Bottom Plug					
2005-Jul-16	2:30	0	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:30	5	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:31	5	8.29	0.0	0.0	0.0	0	0	RECEIVED KANSAS CORPORATION COMMISSION					
2005-Jul-16	2:32	5	8.29	0.0	0.0	0.0	0	0	NOV 0 1 2005					
2005-Jul-16	2:33	5	8.29	0.0	0.0	0.0	0	0	CONSERVATION DIVISION WICHITA, KS					
2005-Jul-16	2:34	0	8.28	0.0	0.0	1.2	0	0						
2005-Jul-16	2:34	5	8.28	0.0	0.0	0.0	0	0						
2005-Jul-16	2:35								Reset Total, Vol = 0.74 bbl					
2005-Jul-16	2:35	284	8.27	0.7	3.6	3.4	0	0						
2005-Jul-16	2:35								Start Pumping Wash					
2005-Jul-16	2:35	247	8.29	0.8	3.9	4.0	0	0						
2005-Jul-16	2:35	220	8.29	1.2	3.9	3.9	0	0						
2005-Jul-16	2:36	211	8.30	4.6	4.2	4.2	0	0						
2005-Jul-16	2:37	206	8.31	8.1	4.2	4.3	0	0						
2005-Jul-16	2:38	206	8.30	11.6	4.2	4.3	0	0						
2005-Jul-16	2:39	266	8.30	15.1	4.7	4.6	0	0						

Well		Field			Service Date		Customer		Job Number
HERTLIEN B #2		SALLEY			05197-Jul-16		OXY USA, INC.		2205548944
Date	Time	Pressure	Density	CMT VOL	CMT RATE	CMT NRD RATE	0	0	Message
	24 hr clock	psi	lb/gal	bbl	bbl/min	bbl/min	0	0	
2005-Jul-16	2:39	302	9.44	19.0	4.6	7.6	0	0	
2005-Jul-16	2:40								Reset Total, Vol = 19.58 bbl
2005-Jul-16	2:40	5	8.30	19.6	0.0	0.6	0	0	
2005-Jul-16	2:40								Start Mixing Tail Slurry
2005-Jul-16	2:40	9	8.29	0.0	0.0	0.0	0	0	
2005-Jul-16	2:40	9	8.28	0.0	0.0	0.0	0	0	
2005-Jul-16	2:41	9	8.28	0.0	0.0	0.0	0	0	
2005-Jul-16	2:42	9	9.27	0.0	0.0	4.5	0	0	
2005-Jul-16	2:43	5	9.93	0.0	0.0	4.5	0	0	
2005-Jul-16	2:44	0	11.25	0.0	0.0	5.1	0	0	
2005-Jul-16	2:45	5	14.17	0.0	0.0	5.3	0	0	
2005-Jul-16	2:45	5	13.25	0.0	0.0	4.0	0	0	
2005-Jul-16	2:46	69	12.87	0.0	0.0	4.0	0	0	
2005-Jul-16	2:47	0	12.90	0.0	0.0	0.0	0	0	
2005-Jul-16	2:48	9	12.88	0.0	0.0	4.3	0	0	
2005-Jul-16	2:49	87	12.82	0.0	0.0	4.3	0	0	
2005-Jul-16	2:49	18	12.79	0.0	0.0	4.8	0	0	
2005-Jul-16	2:49								Filling Up Mouse Hole
2005-Jul-16	2:49	-9	12.73	0.0	0.0	1.5	0	0	
2005-Jul-16	2:49								Reset Total, Vol = 0.00 bbl
2005-Jul-16	2:50	-5	12.73	0.0	0.0	0.0	0	0	
2005-Jul-16	2:50	5	9.06	0.0	0.0	5.1	0	0	
2005-Jul-16	2:51	5	9.10	0.0	0.0	5.3	0	0	
2005-Jul-16	2:52	5	9.10	0.0	0.0	5.4	0	0	
2005-Jul-16	2:53	0	9.10	0.0	0.0	0.0	0	0	
2005-Jul-16	2:54	3722	9.12	0.6	0.0	0.0	0	0	
2005-Jul-16	2:55	3488	9.63	0.6	0.0	5.4	0	0	
2005-Jul-16	2:55	330	12.73	0.6	3.0	2.4	0	0	
2005-Jul-16	2:56								Pumped 3.5 bbl each hole
2005-Jul-16	2:56	284	13.44	0.6	4.0	3.7	0	0	
2005-Jul-16	2:56								Start Pumping cement downhole
2005-Jul-16	2:56	302	13.46	0.7	3.9	3.7	0	0	
2005-Jul-16	2:56	270	13.65	1.5	4.0	3.7	0	0	
2005-Jul-16	2:57	229	13.92	4.9	4.3	4.0	0	0	
2005-Jul-16	2:58	220	13.98	9.1	5.4	5.5	0	0	
2005-Jul-16	2:59	179	13.82	13.5	5.3	5.1	0	0	
2005-Jul-16	3:00	128	13.75	17.9	5.3	5.2	0	0	
2005-Jul-16	3:00	128	13.55	22.3	5.3	5.2	0	0	
2005-Jul-16	3:01	137	13.78	26.7	5.3	5.2	0	0	
2005-Jul-16	3:02	128	13.75	31.1	5.3	5.2	0	0	
2005-Jul-16	3:03	133	13.87	35.6	5.3	5.2	0	0	
2005-Jul-16	3:04	137	13.86	40.0	5.3	5.2	0	0	
2005-Jul-16	3:05	156	13.77	44.6	5.7	5.7	0	0	
2005-Jul-16	3:05	124	13.72	49.2	5.4	5.2	0	0	
2005-Jul-16	3:06	78	13.31	53.5	3.8	4.0	0	0	
2005-Jul-16	3:07	82	14.27	56.5	3.6	3.9	0	0	
2005-Jul-16	3:08	82	13.92	59.4	3.4	3.9	0	0	
2005-Jul-16	3:09								Reset Total, Vol = 61.88 bbl
2005-Jul-16	3:09	-9	13.15	61.9	0.0	1.9	0	0	
2005-Jul-16	3:09	-9	13.07	0.0	0.0	1.4	0	0	
2005-Jul-16	3:09								Washing up Pump
2005-Jul-16	3:09	-5	12.92	0.0	0.0	0.0	0	0	
2005-Jul-16	3:09								Drop Top Plug
2005-Jul-16	3:09	-5	13.01	0.0	0.0	0.0	0	0	

Well		Field			Service Date		Customer		Job Number
HERTLIEN B #2		SALLEY			05197-Jul-16		OXY USA, INC.		2205548944
Date	Time	Pressure	Density	CMT VOL	CMT RATE	CMT NRD RATE	0	0	Message
	24 hr clock	psi	lb/gal	bbbl	bbbl/min	bbbl/min	0	0	
2005-Jul-16	3:10	-5	11.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:10	5	9.98	0.0	0.0	0.0	0	0	
2005-Jul-16	3:11	46	9.04	0.0	0.0	2.4	0	0	
2005-Jul-16	3:12	64	8.55	0.0	0.0	3.2	0	0	
2005-Jul-16	3:13	110	8.44	0.2	4.1	4.0	0	0	
2005-Jul-16	3:14	101	8.30	0.2	4.1	4.2	0	0	
2005-Jul-16	3:15	105	8.31	0.2	4.1	4.1	0	0	
2005-Jul-16	3:15	0	8.31	0.2	0.0	0.0	0	0	
2005-Jul-16	3:16	60	8.30	0.9	4.9	5.7	0	0	
2005-Jul-16	3:17	64	8.31	5.2	5.0	5.6	0	0	
2005-Jul-16	3:18	60	8.30	9.4	5.0	5.6	0	0	
2005-Jul-16	3:19	60	8.30	13.6	5.0	5.6	0	0	
2005-Jul-16	3:20	60	8.30	17.8	5.1	5.7	0	0	
2005-Jul-16	3:20	55	8.30	22.0	5.0	6.0	0	0	
2005-Jul-16	3:21	60	8.30	26.2	5.0	6.1	0	0	
2005-Jul-16	3:22	60	8.30	30.4	5.0	6.0	0	0	
2005-Jul-16	3:23	60	8.30	34.6	5.0	6.0	0	0	
2005-Jul-16	3:24	60	8.30	38.8	5.0	6.0	0	0	
2005-Jul-16	3:25	60	8.30	43.0	5.0	6.0	0	0	
2005-Jul-16	3:25	60	8.30	47.2	5.0	6.0	0	0	
2005-Jul-16	3:26	60	8.30	51.4	5.0	6.0	0	0	
2005-Jul-16	3:27	60	8.30	55.5	5.0	6.0	0	0	
2005-Jul-16	3:28	60	8.30	59.7	5.0	6.1	0	0	
2005-Jul-16	3:29	124	8.30	63.8	5.0	5.2	0	0	
2005-Jul-16	3:30	197	8.30	68.0	5.0	5.1	0	0	
2005-Jul-16	3:30	298	8.30	72.2	5.0	5.0	0	0	
2005-Jul-16	3:31	394	8.30	76.3	5.0	5.0	0	0	
2005-Jul-16	3:32	485	8.30	80.5	5.0	5.0	0	0	
2005-Jul-16	3:33	526	8.30	84.5	3.0	3.1	0	0	
2005-Jul-16	3:34	522	8.30	86.6	2.5	2.6	0	0	
2005-Jul-16	3:35	568	8.30	88.7	2.5	2.5	0	0	
2005-Jul-16	3:35	604	8.30	90.8	2.5	2.6	0	0	
2005-Jul-16	3:36	641	8.30	93.0	2.5	2.5	0	0	
2005-Jul-16	3:37	1172	8.30	94.6	0.0	0.0	0	0	
2005-Jul-16	3:38	1163	8.30	94.6	0.0	0.0	0	0	
2005-Jul-16	3:38								Displacement 100.5 bbl
2005-Jul-16	3:38	1163	8.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:38								Bump Top Plug
2005-Jul-16	3:38	1158	8.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:39	0	8.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:40	0	8.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:40								Float is holding
2005-Jul-16	3:40	0	8.30	0.0	0.0	0.0	0	0	
2005-Jul-16	3:40								End of Job
2005-Jul-16	3:40	0	8.30	0.0	0.0	0.0	0	0	

Well		Field		Service Date		Customer		Job Number	
HERTLIEN B #2		SALLEY		05187-Jul-16		OXY USA, INC.		2205548944	
Date	Time	Pressure	Density	CMT VOL	CMT RATE	CMT NRD RATE	0	0	Message
	24 hr clock	psi	lb/gal	bbf	bbf/min	bbf/min	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	62		20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1160		350	1150		bbf	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface?		Volume			
%	66 bbl	100.5 bbl	°F	<input type="checkbox"/> Washed Thru Perfs		To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost			
Willimon, Wes			Grella Chacon, Miguel			<input checked="" type="checkbox"/> Job Completed			