

CONFIDENTIAL

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

Form ACO-1

September 1999

Form Must Be Typed

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: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: Marvin T. Harvey, Jr.

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. Pending
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
08/29/05 09/07/05 10/03/05
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 081-21613-0000
County: Haskell
SW - SE - SE - SE Sec 28 Twp. 30 S. R. 33W
330 feet from (S) N (circle one) Line of Section
520 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Hickman B Well #: 6
Field Name: _____
Producing Formation: Morrow/Chester
Elevation: Ground: 2937 Kelly Bushing: 2948
Total Depth: 5700 Plug Back Total Depth: 5657
Amount of Surface Pipe Set and Cemented at 1810 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT I WITHIN 3-12-07
(Data must be collected from the Reserve Pit)
Chloride content 1600 mg/l ppm Fluid volume 1550 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. SE 33 30 East West
County: _____ Docket No. _____

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Vicki Carder
Title: Capital Project Date 12/21/05
Subscribed and sworn to before me this 21 day of Dec.
20 05
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2009

KCC Office Use Only
YES 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

Operator Name: OXY USA Inc. Lease Name: Hickman B Well #: 6

Sec. 28 Twp. 30 S. R. 33W East West County: Haskell

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input 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	Heebner	4082 -1134
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	4151 -1203
List All E. Logs Run:	CBL TracerScan	Marmaton	4807 -1859
Sonic Induction Neutron		Cherokee	4986 -2038
MicroLog Geological Report		Morrow	5285 -2337
		Chester	5390 -2442
		St. Genevieve	5471 -2523
		St. Louis	5530 -2582

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	1810	C	615	35/65 Poz + Additives
					C	195	Class C + Additives
Production	7 7/8	4 1/2	10.5	5700	H	260	50/50 Poz + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5390-5420	Acidize - 120 bbls 17% HCL-FE	
2	5380-5386	Frac-102,772 gls 30# gel 70QN2, 200,000# 20/40 Sand	

TUBING RECORD	Size Set At	Packer At	Liner Run
	NA		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 10/21/05	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	Gas Mcf	Water Bbls Gas-Oil Ratio Gravity
	4	400	1 100,000

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented, Submit ACO-18) Other (Specify) _____

Customer OXY USA, INC.						Job Number 2205549448			
Well Hickman B 6			Location (legal) Sec 28-T30S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Aug-31
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD		
				°	12.3 in	1,810 ft	1,810 ft		
County Haskell		State/Province Kansas		BHP psi	BHST 98 °F	BHCT °F	Pore Press. Gradient psi/ft		
Well Master: 0630726624		API / UWI:		Casing/Liner					
Rig Name MURFIN 20	Drilled For Oil & Gas	Service Via Land		Depth, ft 1810	Size, in 8.625	Weight, lb/ft 24	Grade	Thread	
Offshore Zone	Well Class New	Well Type New Well Completion		Tubing/Drill Pipe					
Drilling Fluid Type		Max. Density lb/gal	Plastic VI: cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing	Job Type Cem Surface Casing		Perforations/Open Hole						
Max. Allowed Tubing Pressure 1500 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 8 5/8" H&SM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions Cement 8 5/8" Surface Casing 615 SKS 35/65 Poz + 6%D20 + 2%S1 + 0.5 pps D29 (Includes 50 SKS for cellar) 195 SKS Class C + 2%S1 + 0.25 pps D29				Diameter in	Treat Down Casing	Displacement 112.6 bbl	Packer Type	Packer Depth ft	
				Tubing Vol. bbl	Casing Vol. 115 bbl	Annular Vol. 133 bbl	Open Hole Vol. 248 bbl		
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools			Squeeze Job		
Lift Pressure: 480 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:	Squeeze Type		
No. Centralizers:		Top Plugs: 1	Bottom Plugs: 0		Shoe Depth: 1810 ft	Tool Type:			
Cement Head Type: Single		Stage Tool Type:		Stage Tool Depth: ft	Tool Depth: ft				
Job Scheduled For:		Arrived on Location: 2005-Aug-31 3:00	Leave Location: 2005-Aug-31 7:00		Collar Type:	Tall Pipe Size: in			
				Collar Depth: 1768 ft	Tall Pipe Depth: ft				
					Sqz Total Vol: bbl				
Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	Volume bbl	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	Message
2005-Aug-31	4:48	0	0.0	8.31	0.0	0.0	0.0	0	
2005-Aug-31	4:48								Start Job
2005-Aug-31	4:49	32	0.0	8.31	0.0	0.1	0.0	0	
2005-Aug-31	4:49	2055	0.0	8.31	0.0	0.1	0.4	0	
2005-Aug-31	4:49	1968	0.0	8.31	0.0	0.0	0.4	0	
2005-Aug-31	4:49								Pressure RECEIVED
2005-Aug-31	4:50	1799	0.0	8.31	0.0	0.0	0.4	0	
2005-Aug-31	4:50	37	0.0	8.31	0.0	0.0	0.4	0	
2005-Aug-31	4:51	128	4.2	8.29	1.5	4.3	1.9	0	DEC 23 2005
2005-Aug-31	4:51	151	5.9	7.21	4.1	0.0	4.1	0	KCC WICHITA
2005-Aug-31	4:52	105	3.0	8.20	5.6	3.1	10.2	0	
2005-Aug-31	4:52								Start Pumping Spacer
2005-Aug-31	4:52	101	3.0	8.22	5.6	3.1	10.3	0	
2005-Aug-31	4:52	188	5.8	8.28	7.4	5.8	12.3	0	
2005-Aug-31	4:53	188	5.7	8.29	10.3	5.9	15.3	0	
2005-Aug-31	4:53								End Spacer
2005-Aug-31	4:53	197	5.7	9.02	13.0	5.6	18.1	0	
2005-Aug-31	4:53	192	5.7	9.10	13.1	5.6	18.2	0	
2005-Aug-31	4:53								Reset Total, Vol = 13.14 bbl
2005-Aug-31	4:53	197	5.8	9.18	13.1	5.7	18.3	0	
2005-Aug-31	4:53								Start Mixing Lead Slurry
2005-Aug-31	4:53	197	5.8	9.34	0.2	5.7	0.2	0	

Well		Field			Service Date		Customer		Job Number
Hickman B #6					05243-Aug-31		OXY USA, INC.		2205549448
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0	
2005-Aug-31	4:54	215	5.8	10.66	2.8	5.7	2.8	0	
2005-Aug-31	4:54	229	5.9	11.07	5.7	5.8	5.6	0	
2005-Aug-31	4:55	220	5.8	11.23	8.6	5.9	8.5	0	
2005-Aug-31	4:55	215	5.9	11.45	11.5	5.9	11.5	0	
2005-Aug-31	4:56	206	5.9	11.51	14.5	5.8	14.4	0	
2005-Aug-31	4:56	211	5.9	11.69	17.4	5.9	17.4	0	
2005-Aug-31	4:57	197	5.9	11.78	20.4	5.9	20.3	0	
2005-Aug-31	4:57	201	5.9	11.76	23.4	5.9	23.2	0	
2005-Aug-31	4:58	197	5.9	11.75	26.4	5.9	26.3	0	
2005-Aug-31	4:58	174	5.5	11.70	29.3	5.4	29.1	0	
2005-Aug-31	4:59	183	5.9	11.79	32.2	5.7	31.9	0	
2005-Aug-31	4:59	179	6.0	11.88	35.1	5.9	34.9	0	
2005-Aug-31	5:00	73	2.7	11.27	37.8	4.7	37.6	0	
2005-Aug-31	5:00	41	3.3	11.50	39.2	3.3	39.2	0	
2005-Aug-31	5:01	73	3.9	12.05	41.0	4.0	41.0	0	
2005-Aug-31	5:01	114	5.1	12.22	43.3	5.0	43.2	0	
2005-Aug-31	5:02	142	5.4	11.95	45.9	5.4	45.9	0	
2005-Aug-31	5:02	137	5.4	11.95	48.6	5.4	48.6	0	
2005-Aug-31	5:03	128	5.4	11.87	51.4	5.4	51.2	0	
2005-Aug-31	5:03	110	5.0	11.56	54.0	5.0	53.9	0	
2005-Aug-31	5:04	73	4.0	11.47	56.3	4.1	56.2	0	
2005-Aug-31	5:04	32	2.5	11.42	57.8	3.2	57.9	0	
2005-Aug-31	5:05	37	2.9	11.95	59.1	3.3	59.6	0	
2005-Aug-31	5:05	37	2.9	12.11	60.6	3.3	61.2	0	
2005-Aug-31	5:06	32	2.9	12.00	62.0	3.3	62.9	0	
2005-Aug-31	5:06	37	2.9	12.02	63.5	3.4	64.6	0	
2005-Aug-31	5:07	37	2.9	12.06	65.0	3.4	66.3	0	
2005-Aug-31	5:07	37	2.9	12.14	66.4	3.4	68.0	0	
2005-Aug-31	5:08	69	4.1	12.32	68.1	4.1	69.8	0	
2005-Aug-31	5:08	64	4.0	12.35	70.2	4.0	71.9	0	
2005-Aug-31	5:09	87	4.5	12.34	72.4	4.6	74.0	0	
2005-Aug-31	5:09	78	4.6	12.27	74.7	4.6	76.3	0	
2005-Aug-31	5:10	87	4.6	12.24	76.9	4.6	78.6	0	
2005-Aug-31	5:10	87	4.6	12.63	79.2	4.6	80.9	0	
2005-Aug-31	5:11	133	5.4	12.61	81.9	5.4	83.6	0	
2005-Aug-31	5:11	137	5.4	12.33	84.6	5.4	86.3	0	
2005-Aug-31	5:12	128	5.4	12.28	87.3	5.4	89.0	0	
2005-Aug-31	5:12	124	5.4	11.99	90.0	5.3	91.7	0	
2005-Aug-31	5:13	124	5.4	11.98	92.7	5.4	94.4	0	
2005-Aug-31	5:13	110	5.1	12.36	95.4	5.2	97.0	0	
2005-Aug-31	5:14	146	5.9	12.43	98.2	5.9	99.9	0	
2005-Aug-31	5:14	137	5.8	12.43	101.2	5.9	102.8	0	
2005-Aug-31	5:15	151	6.1	12.39	104.2	6.1	105.8	0	
2005-Aug-31	5:15	165	6.5	12.47	107.2	6.0	108.8	0	
2005-Aug-31	5:16	146	6.3	11.92	110.4	6.3	111.9	0	
2005-Aug-31	5:16	50	3.7	11.55	112.9	3.7	114.5	0	
2005-Aug-31	5:17	37	2.5	11.76	114.4	3.4	116.3	0	
2005-Aug-31	5:17	37	2.5	12.24	115.7	3.4	117.9	0	
2005-Aug-31	5:18	37	2.5	12.25	116.9	3.4	119.6	0	
2005-Aug-31	5:18	32	2.5	12.05	118.2	3.4	121.4	0	
2005-Aug-31	5:19	82	4.7	12.54	119.8	4.6	123.3	0	
2005-Aug-31	5:19	128	5.9	12.39	122.7	5.8	126.1	0	
2005-Aug-31	5:20	156	6.7	12.02	125.8	6.4	129.1	0	
2005-Aug-31	5:20	142	6.7	11.56	129.1	6.5	132.3	0	

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Well		Field			Service Date		Customer		Job Number
Hickman B #6					05243-Aug-31		OXY USA, INC.		2205549448
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0	
2005-Aug-31	5:21	124	6.1	11.72	132.2	6.1	135.3	0	
2005-Aug-31	5:21	133	6.1	12.27	135.2	6.0	138.3	0	
2005-Aug-31	5:22	133	6.1	11.95	138.3	5.9	141.3	0	
2005-Aug-31	5:22	128	6.1	11.98	141.3	6.1	144.3	0	
2005-Aug-31	5:23	128	6.1	11.99	144.3	6.0	147.3	0	
2005-Aug-31	5:23	128	6.1	12.03	147.4	6.0	150.3	0	
2005-Aug-31	5:24	128	6.1	12.19	150.4	6.1	153.3	0	
2005-Aug-31	5:24	133	6.1	12.24	153.5	6.0	156.3	0	
2005-Aug-31	5:25	133	6.1	12.19	156.5	6.0	159.3	0	
2005-Aug-31	5:25	128	6.1	12.05	159.5	6.0	162.3	0	
2005-Aug-31	5:26	119	6.1	11.94	162.6	6.1	165.3	0	
2005-Aug-31	5:26	119	6.1	11.75	165.6	5.9	168.3	0	
2005-Aug-31	5:27	27	3.1	10.99	168.2	3.4	170.9	0	
2005-Aug-31	5:27	23	2.5	10.60	169.5	3.2	172.5	0	
2005-Aug-31	5:28	-14	0.0	10.38	169.6	3.9	174.3	0	
2005-Aug-31	5:28	82	4.7	13.24	170.3	4.4	176.2	0	
2005-Aug-31	5:29	128	6.0	12.95	173.2	6.0	179.1	0	
2005-Aug-31	5:29	114	5.9	12.19	176.3	5.9	182.2	0	
2005-Aug-31	5:30	114	5.9	11.92	179.2	5.8	185.1	0	
2005-Aug-31	5:30	114	5.9	11.92	182.2	5.8	188.1	0	
2005-Aug-31	5:31	114	5.9	12.08	185.1	5.8	191.0	0	
2005-Aug-31	5:31	114	5.9	12.14	188.0	5.8	193.9	0	
2005-Aug-31	5:32	114	5.9	12.13	191.0	5.8	196.8	0	
2005-Aug-31	5:32	114	5.9	12.14	193.9	5.9	199.7	0	
2005-Aug-31	5:33	114	5.9	12.19	196.8	5.8	202.6	0	
2005-Aug-31	5:33	114	5.9	12.24	199.8	5.8	205.5	0	
2005-Aug-31	5:34	119	6.0	12.24	202.7	5.9	208.4	0	
2005-Aug-31	5:34	119	5.9	12.21	205.7	5.8	211.4	0	
2005-Aug-31	5:35	119	5.9	12.11	208.6	5.8	214.3	0	
2005-Aug-31	5:35	114	5.9	12.03	211.5	5.8	217.2	0	
2005-Aug-31	5:36	119	5.9	12.21	214.5	6.0	220.1	0	
2005-Aug-31	5:36	119	5.9	12.30	217.4	5.9	223.1	0	
2005-Aug-31	5:37	114	5.9	12.24	220.4	6.0	226.1	0	
2005-Aug-31	5:37	119	5.9	12.17	223.3	5.9	229.0	0	
2005-Aug-31	5:38	119	5.9	12.05	226.2	5.9	231.9	0	
2005-Aug-31	5:38	119	5.9	12.03	229.2	5.9	234.9	0	
2005-Aug-31	5:39	124	5.9	12.00	232.2	5.8	237.8	0	
2005-Aug-31	5:39	124	5.9	12.41	235.1	5.9	240.7	0	
2005-Aug-31	5:40	128	5.9	12.22	238.0	5.9	243.6	0	
2005-Aug-31	5:40								End Lead Slurry
2005-Aug-31	5:40	128	5.9	12.32	238.8	5.8	244.4	0	
2005-Aug-31	5:40								Reset Total, Vol = 239.13 bbl
2005-Aug-31	5:40	124	5.9	12.34	239.1	5.8	244.7	0	
2005-Aug-31	5:40	124	5.9	12.37	0.3	5.8	0.3	0	
2005-Aug-31	5:40								Start Mixing Tail Slurry
2005-Aug-31	5:40	133	5.9	12.81	2.0	5.8	1.9	0	
2005-Aug-31	5:41	142	5.9	13.27	4.9	5.7	4.8	0	
2005-Aug-31	5:41	151	5.9	13.50	7.9	5.9	7.8	0	
2005-Aug-31	5:42	160	5.9	14.07	10.8	5.9	10.7	0	
2005-Aug-31	5:42	183	5.9	14.74	13.7	5.9	13.7	0	
2005-Aug-31	5:43	165	5.9	14.58	16.7	5.8	16.7	0	
2005-Aug-31	5:43	169	5.9	14.69	19.7	5.9	19.6	0	
2005-Aug-31	5:44	87	4.2	14.69	22.3	4.3	22.4	0	
2005-Aug-31	5:44	82	4.2	14.62	24.4	4.3	24.5	0	

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Well		Field			Service Date		Customer		Job Number
Hickman B #6					05243-Aug-31		OXY USA, INC.		2205549448
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0	
2005-Aug-31	5:45	87	4.2	14.91	26.5	4.3	26.6	0	
2005-Aug-31	5:45	114	4.9	14.86	28.9	4.9	29.0	0	
2005-Aug-31	5:46	105	4.8	14.74	31.4	5.0	31.5	0	
2005-Aug-31	5:46	114	4.9	14.77	33.8	4.9	33.9	0	
2005-Aug-31	5:47	87	4.3	14.49	36.1	4.4	36.3	0	
2005-Aug-31	5:47	92	4.3	14.78	38.3	4.4	38.5	0	
2005-Aug-31	5:48	87	4.3	14.75	40.4	4.4	40.7	0	
2005-Aug-31	5:48	87	4.3	14.69	42.6	4.4	42.9	0	
2005-Aug-31	5:49	46	3.2	14.56	44.5	3.4	44.9	0	
2005-Aug-31	5:49	46	3.1	14.87	46.1	3.3	46.6	0	
2005-Aug-31	5:50	64	3.9	14.42	47.7	3.9	48.3	0	
2005-Aug-31	5:50								End Tail Slurry
2005-Aug-31	5:50	-18	0.0	13.91	49.1	1.0	50.0	0	
2005-Aug-31	5:50	-18	0.0	13.81	49.1	0.5	50.0	0	
2005-Aug-31	5:50								Reset Total, Vol = 49.07 bbl
2005-Aug-31	5:50	-14	0.0	13.78	0.0	0.3	0.0	0	
2005-Aug-31	5:50								Drop Top Plug
2005-Aug-31	5:50	-14	0.0	13.75	0.0	0.1	0.0	0	
2005-Aug-31	5:50	-14	0.0	13.74	0.0	0.1	0.0	0	
2005-Aug-31	5:50								Start Displacement
2005-Aug-31	5:51	-14	0.0	13.72	0.0	0.0	0.0	0	
2005-Aug-31	5:51	-14	0.0	12.68	0.0	0.0	0.0	0	
2005-Aug-31	5:52	-14	0.0	10.99	0.0	0.0	0.0	0	
2005-Aug-31	5:52	-14	0.0	10.40	0.0	0.0	0.0	0	
2005-Aug-31	5:53	-14	0.0	10.11	0.0	0.0	0.0	0	
2005-Aug-31	5:53	-14	0.0	9.83	0.0	0.0	0.0	0	
2005-Aug-31	5:54	41	0.0	9.01	0.0	2.5	0.2	0	
2005-Aug-31	5:54	37	4.6	8.73	2.0	4.8	2.3	0	
2005-Aug-31	5:55	37	4.6	8.75	4.3	4.8	4.7	0	
2005-Aug-31	5:55	37	5.0	8.34	6.8	5.3	7.3	0	
2005-Aug-31	5:56	32	5.0	8.31	9.4	5.2	9.9	0	
2005-Aug-31	5:56	32	5.0	8.35	11.9	5.2	12.5	0	
2005-Aug-31	5:57	55	5.0	8.35	14.4	5.1	15.0	0	
2005-Aug-31	5:57	64	5.0	8.31	16.9	5.1	17.6	0	
2005-Aug-31	5:58	69	5.0	8.31	19.4	5.2	20.2	0	
2005-Aug-31	5:58	101	5.6	8.31	22.2	5.8	23.0	0	
2005-Aug-31	5:59	124	6.1	8.31	25.2	6.2	26.0	0	
2005-Aug-31	5:59	137	6.1	8.31	28.2	6.2	29.1	0	
2005-Aug-31	6:00	146	6.1	8.31	31.3	6.3	32.2	0	
2005-Aug-31	6:00	160	6.1	8.31	34.3	6.2	35.4	0	
2005-Aug-31	6:01	169	6.2	8.31	37.4	6.2	38.5	0	
2005-Aug-31	6:01	183	6.2	8.31	40.6	6.8	41.8	0	
2005-Aug-31	6:02	192	6.2	8.31	43.7	6.3	44.9	0	
2005-Aug-31	6:02	201	6.2	8.31	46.8	6.3	48.0	0	
2005-Aug-31	6:03	215	6.2	8.31	49.9	6.3	51.2	0	
2005-Aug-31	6:03	224	6.3	8.31	53.0	6.4	54.4	0	
2005-Aug-31	6:04	247	6.3	8.31	56.1	6.4	57.6	0	
2005-Aug-31	6:04	256	6.4	8.31	59.3	6.4	60.8	0	
2005-Aug-31	6:05	275	6.4	8.31	62.5	6.5	64.0	0	
2005-Aug-31	6:05	298	6.5	8.31	65.7	6.5	67.2	0	
2005-Aug-31	6:06	302	6.4	8.31	69.0	6.5	70.5	0	
2005-Aug-31	6:06	325	6.5	8.31	72.2	6.5	73.7	0	
2005-Aug-31	6:07	348	6.5	8.31	75.4	6.6	77.0	0	
2005-Aug-31	6:07	371	6.4	8.31	78.7	6.5	80.3	0	

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Well		Field			Service Date		Customer		Job Number	
Hickman B #6					05243-Aug-31		OXY USA, INC.		2205549448	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0		
2005-Aug-31	6:08	380	6.5	8.31	81.9	6.4	83.5	0		
2005-Aug-31	6:08	407	6.4	8.31	85.1	6.4	86.7	0		
2005-Aug-31	6:09	430	6.4	8.29	88.3	6.4	90.0	0		
2005-Aug-31	6:09	449	6.4	8.31	91.5	6.4	93.2	0		
2005-Aug-31	6:10	471	6.4	8.31	94.7	6.5	96.4	0		
2005-Aug-31	6:10	490	6.4	8.31	97.8	6.5	99.6	0		
2005-Aug-31	6:11	508	6.3	8.31	101.0	6.3	102.8	0		
2005-Aug-31	6:11	522	6.3	8.31	104.1	6.3	105.9	0		
2005-Aug-31	6:12	426	2.4	8.31	107.2	3.1	109.1	0		
2005-Aug-31	6:12	444	2.4	8.31	108.3	2.4	110.2	0		
2005-Aug-31	6:13	444	2.4	8.31	109.4	2.4	111.4	0		
2005-Aug-31	6:13	458	2.4	8.31	110.6	2.4	112.6	0		
2005-Aug-31	6:14	462	2.4	8.31	111.8	2.4	113.8	0		
2005-Aug-31	6:14	1112	0.0	8.31	112.9	1.0	115.0	0		
2005-Aug-31	6:15	1094	0.0	8.31	112.9	0.0	115.0	0		
2005-Aug-31	6:15	1099	0.0	8.31	112.9	0.0	115.0	0		
2005-Aug-31	6:15								Bump Top Plug	
2005-Aug-31	6:15								End Displacement	
2005-Aug-31	6:15	1094	0.0	8.31	112.9	0.0	115.0	0		
2005-Aug-31	6:15								Reset Total, Vol = 112.89 bbl	
2005-Aug-31	6:15	1099	0.0	8.31	0.0	0.0	0.0	0		
2005-Aug-31	6:16	545	0.0	8.31	0.0	0.0	0.0	0		
2005-Aug-31	6:16	0	0.0	8.31	0.0	0.0	0.0	0		
2005-Aug-31	6:16								End Job	
2005-Aug-31	6:17	0	0.0	8.31	0.0	0.0	0.0	0		
Post Job Summary										
Average Pump Rates, bpm					Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2			
5			6	285	0	10				
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density				
			1100		bbl	lb/gal				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 75 bbl <input type="checkbox"/> Washed Thru Perfs To ft						
%	285 bbl	112.6 bbl	°F							
Customer or Authorized Representative			Schlumberger Supervisor				<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			
Fillpot, Gregg			Ahrends, Timothy							

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Date	08/31/05
Company	OXY
Job Number	2205549448
Well Name	Hickman
Well Number	B 6
County	Haskell
State	KS

Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	1810	
Shoe Length	42	
Insert Depth	1768	
Hole Size	12 1/4	
Hole Depth	1810	

1st System	
615 sacks	C
2.18 yield	D132,D20,S1,D29
12.2 weight	
12.3 water	180
cubic ft.	1341
height	3249
bbls	239

248	Pipe Volume	115
	Annular Volume	133
	Total Cement	285
	Total Water	322

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

2nd System	
195 sacks	C
1.34 yield	S1,D29
14.8 weight	
6.3 water	29
cubic ft.	261
height	633
bbls	46.5

Casing lift 743
Cement lift 427

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

Test 2000

0 Mud

10 Spacer

239 Lead **12.2**

47 Tail **14.8**

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

112.6 Displacement

1500 Maximum Pressure

Pump time @ 6 BPM

66 MIN

CONFIDENTIAL



Cementing Service Report

Customer OXY USA, INC.						Job Number 2205549490					
Well Hickman B 6			Location (legal) Sec 28-T30S-R33W			Schlumberger Location Perryton, TX			Job Start 2005-Sep-08		
Field		Formation Name/Type		Deviation	Bit Size 7.88 in	Well MD 5,700 ft	Well TVD 5,700 ft				
County Haskell		State/Province Kansas		BHP psi	BHST 137 °F	BHCT °F	Pore Press. Gradient psi/ft				
Well Master: 0630726624		API / UWI:		Casing/Liner							
Rig Name MURFIN 20	Drilled For Oil & Gas	Service Via Land		Depth, ft 5703	Size, in 4.5	Weight, lb/ft 10.5	Grade	Thread			
Offshore Zone	Well Class New	Well Type New Well Completion		Tubing/Drill Pipe							
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread			
Service Line Cementing	Job Type Cem Prod Casing		Perforations/Open Hole								
Max. Allowed Tubing Pressure 2000 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 4 1/2" H&SM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft			
Service Instructions CEMENT 4 1/2" PRODUCTION CASING : 20 BLS CW100 260 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 25 SKS 50/50 POZ H + ADDS FOR RAT & MOUSE				Diameter in	Treat Down Casing	Displacement 90.2 bbl	Packer Type	Packer Depth ft			
				Tubing Vol. bbl	Casing Vol. 91 bbl	Annular Vol. 231 bbl	Open Hole Vol. 322 bbl				
				Casing Tools				Squeeze Job			
				Shoe Type: 5703	Squeeze Type			Shoe Depth: ft	Tool Type:		
No. Centralizers: Top Plugs: 1	Bottom Plugs: 1	Cement Head Type: Single	Job Scheduled For: 2005-Sep-08 6:30	Arrived on Location: 2005-Sep-08 13:30	Leave Location: 2005-Sep-08 13:30	Stage Tool Type: ft	Tool Depth: ft	Tall Pipe Size: in			
Lift Pressure: 700 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input checked="" type="checkbox"/>	Stage Tool Depth: ft	Tall Pipe Depth: ft	Collar Type: 5660	Collar Depth: ft	Sqz Total Vol: bbl				
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>										

Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	Volume bbl	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	Message
2005-Sep-08	11:09	-5	0.0	8.27	0.0	0.0	0.0	0	
2005-Sep-08	11:09							0	Start Job
2005-Sep-08	11:10	-9	0.0	8.27	0.0	0.0	0.0	0	
2005-Sep-08	11:10	-5	0.0	8.27	0.0	0.0	0.0	0	
2005-Sep-08	11:11	-5	0.0	8.27	0.0	0.0	0.1	0	
2005-Sep-08	11:15	5	0.0	8.26	0.0	1.4	0.3	0	
2005-Sep-08	11:15	1231	0.1	8.26	0.1	0.1	0.5	0	
2005-Sep-08	11:16	3049	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:16	2925	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:17	2866	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:17	604	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:18	-55	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:18	-64	0.0	8.27	0.1	0.0	0.6	0	
2005-Sep-08	11:19	46	1.0	8.27	0.2	1.0	0.8	0	
2005-Sep-08	11:19	46	5.5	8.27	2.0	5.6	2.5	0	
2005-Sep-08	11:20	73	5.5	8.28	4.7	5.7	5.3	0	
2005-Sep-08	11:20	201	5.5	8.28	7.5	5.7	8.1	0	
2005-Sep-08	11:21	211	5.5	8.28	10.2	5.7	10.9	0	
2005-Sep-08	11:21	192	5.5	8.28	12.9	5.7	13.8	0	
2005-Sep-08	11:22	229	5.5	8.28	15.7	5.7	16.6	0	
2005-Sep-08	11:22	229	5.5	8.28	18.4	5.6	19.4	0	
2005-Sep-08	11:23	-55	2.6	8.15	21.1	4.8	22.3	0	

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Well		Field			Service Date		Customer		Job Number
Hickman B #6					05251-Sep-08		OXY USA, INC.		2205549490
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0	
2005-Sep-08	11:23	-78	0.0	8.26	21.2	0.0	22.5	0	
2005-Sep-08	11:24	-73	0.0	8.10	21.2	5.7	23.5	0	
2005-Sep-08	11:25	-69	0.0	10.54	21.2	4.8	26.0	0	
2005-Sep-08	11:25	-69	0.0	12.67	21.2	5.3	28.4	0	
2005-Sep-08	11:26	-27	0.0	13.79	21.2	6.1	31.3	0	
2005-Sep-08	11:26	18	0.0	13.72	21.2	2.6	34.1	0	
2005-Sep-08	11:27	18	0.0	13.76	21.2	2.6	35.4	0	
2005-Sep-08	11:27	-78	0.0	13.76	21.2	-0.1	35.9	0	
2005-Sep-08	11:28	-73	0.0	10.04	21.2	4.1	36.7	0	
2005-Sep-08	11:28	-73	0.0	11.77	21.2	4.6	38.8	0	
2005-Sep-08	11:29	-73	0.0	13.85	21.2	6.1	41.6	0	
2005-Sep-08	11:29	-73	0.0	13.94	21.2	6.0	44.6	0	
2005-Sep-08	11:30	-73	0.0	13.78	21.2	5.7	47.5	0	
2005-Sep-08	11:30	14	0.0	13.72	21.2	2.5	49.6	0	
2005-Sep-08	11:31	14	0.0	13.74	21.2	2.5	50.8	0	
2005-Sep-08	11:31	-78	0.0	13.71	21.2	-0.0	51.9	0	
2005-Sep-08	11:32	-73	0.0	13.72	21.2	-0.1	51.9	0	
2005-Sep-08	11:33	-73	0.0	13.75	21.2	-0.1	51.9	0	
2005-Sep-08	11:34	-73	0.0	13.75	21.2	-0.2	51.9	0	
2005-Sep-08	11:34	-73	0.0	13.74	21.2	-0.0	51.9	0	
2005-Sep-08	11:35	-64	1.3	12.89	21.4	-0.0	51.9	0	
2005-Sep-08	11:35	380	5.5	12.92	22.6	5.0	52.4	0	
2005-Sep-08	11:36	252	5.3	13.44	25.3	5.3	55.0	0	
2005-Sep-08	11:36	128	4.9	13.62	27.9	4.8	57.5	0	
2005-Sep-08	11:37	133	4.8	13.75	30.3	4.8	59.9	0	
2005-Sep-08	11:37								Start Cement Slurry
2005-Sep-08	11:37	119	4.8	13.79	31.1	4.8	60.7	0	
2005-Sep-08	11:37	101	4.7	13.83	32.7	4.8	62.3	0	
2005-Sep-08	11:38	69	4.7	13.83	35.1	4.7	64.7	0	
2005-Sep-08	11:38	60	4.7	13.43	12.7	4.8	67.1	0	
2005-Sep-08	11:39	64	4.7	13.99	15.1	4.7	15.1	0	
2005-Sep-08	11:39	60	4.6	13.85	17.4	4.6	17.4	0	
2005-Sep-08	11:40	23	3.9	13.85	19.5	4.0	19.5	0	
2005-Sep-08	11:40	27	4.3	13.88	21.6	4.2	21.5	0	
2005-Sep-08	11:41	41	4.3	13.87	23.6	4.1	23.6	0	
2005-Sep-08	11:41	87	5.5	13.71	26.2	5.5	26.1	0	
2005-Sep-08	11:42	133	5.5	14.22	28.9	5.4	28.8	0	
2005-Sep-08	11:42	119	5.5	14.13	31.7	5.4	31.5	0	
2005-Sep-08	11:43	96	5.5	13.39	34.4	5.5	34.2	0	
2005-Sep-08	11:43	92	5.5	13.59	37.2	5.5	36.9	0	
2005-Sep-08	11:44	114	5.5	13.85	39.9	5.4	39.6	0	
2005-Sep-08	11:44	119	5.5	13.95	42.6	5.5	42.4	0	
2005-Sep-08	11:45	105	5.5	13.95	45.4	5.4	45.1	0	
2005-Sep-08	11:45	119	5.5	14.02	48.1	5.5	47.8	0	
2005-Sep-08	11:46	114	5.5	13.76	50.9	5.4	50.5	0	
2005-Sep-08	11:46	124	5.4	13.80	53.6	5.4	53.2	0	
2005-Sep-08	11:47	105	5.5	13.85	56.3	5.5	56.0	0	
2005-Sep-08	11:47	119	5.5	13.85	59.1	5.4	58.7	0	
2005-Sep-08	11:48	128	5.5	13.86	61.8	5.4	61.4	0	
2005-Sep-08	11:48	183	5.5	13.88	64.6	4.6	64.1	0	
2005-Sep-08	11:49	96	5.5	13.56	67.4	5.5	66.5	0	
2005-Sep-08	11:49	119	5.5	13.75	70.1	5.5	69.2	0	
2005-Sep-08	11:50	119	5.5	13.78	72.9	5.5	71.9	0	
2005-Sep-08	11:50	110	5.5	13.50	75.6	5.4	74.6	0	

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Well		Field			Service Date		Customer		Job Number
Hickman B #6					05251-Sep-08		OXY USA, INC.		2205549490
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0	
2005-Sep-08	11:51	5	1.7	13.40	76.7	3.6	76.6	0	
2005-Sep-08	11:51	-78	0.0	13.37	76.9	-0.1	77.0	0	
2005-Sep-08	11:51								End Cement Slurry
2005-Sep-08	11:51	-82	0.0	13.37	76.9	-0.1	77.0	0	
2005-Sep-08	11:51	-78	0.0	13.30	76.9	0.2	77.0	0	
2005-Sep-08	11:51								Reset Total, Vol = 76.88 bbl
2005-Sep-08	11:52	0	0.0	13.20	0.0	-0.2	0.0	0	
2005-Sep-08	11:52	0	0.0	13.17	0.0	-0.1	0.0	0	
2005-Sep-08	11:53	5	0.0	12.92	0.0	-0.2	0.0	0	
2005-Sep-08	11:53	5	0.0	12.88	0.0	-0.1	0.0	0	
2005-Sep-08	11:54	128	0.0	8.83	0.0	4.1	1.1	0	
2005-Sep-08	11:54	229	0.0	8.61	0.0	4.5	3.2	0	
2005-Sep-08	11:55	188	0.0	8.27	0.0	-0.0	4.2	0	
2005-Sep-08	11:55	124	0.0	8.22	0.0	6.9	6.4	0	
2005-Sep-08	11:56	233	0.0	8.24	0.0	0.0	7.9	0	
2005-Sep-08	11:56	0	0.0	8.18	0.0	0.1	7.9	0	
2005-Sep-08	11:57	0	0.0	8.18	0.0	0.2	8.0	0	
2005-Sep-08	11:57	9	0.0	7.91	0.0	0.1	8.1	0	
2005-Sep-08	11:58	55	7.7	8.25	1.4	8.1	9.4	0	
2005-Sep-08	11:58	92	6.0	8.25	4.6	6.4	12.8	0	
2005-Sep-08	11:59	119	6.6	8.25	7.7	7.1	16.1	0	
2005-Sep-08	11:59	119	6.6	8.24	11.0	7.1	19.6	0	
2005-Sep-08	12:00	110	6.6	8.25	14.3	7.1	23.1	0	
2005-Sep-08	12:00	114	6.6	8.25	17.6	7.1	26.7	0	
2005-Sep-08	12:01	110	6.6	8.23	20.9	7.1	30.2	0	
2005-Sep-08	12:01	110	6.6	8.24	24.3	7.0	33.8	0	
2005-Sep-08	12:02	105	6.6	8.24	27.6	7.1	37.3	0	
2005-Sep-08	12:02	114	6.6	8.24	30.9	7.1	40.8	0	
2005-Sep-08	12:03	105	6.6	8.24	34.2	7.0	44.4	0	
2005-Sep-08	12:03	110	6.6	8.24	37.5	7.2	47.9	0	
2005-Sep-08	12:04	110	6.6	8.23	40.8	7.0	51.4	0	
2005-Sep-08	12:04	119	6.6	8.25	44.1	7.1	55.0	0	
2005-Sep-08	12:05	110	6.6	8.25	47.4	7.1	58.5	0	
2005-Sep-08	12:05	105	6.6	8.24	50.7	7.1	62.0	0	
2005-Sep-08	12:06	110	6.7	8.25	54.1	7.1	65.6	0	
2005-Sep-08	12:06	284	6.5	8.25	57.4	7.0	69.1	0	
2005-Sep-08	12:07	275	6.6	8.24	60.7	6.9	72.6	0	
2005-Sep-08	12:07	394	6.6	8.25	64.0	6.9	76.0	0	
2005-Sep-08	12:08	398	6.6	8.25	67.3	7.0	79.5	0	
2005-Sep-08	12:08	481	6.6	8.25	70.6	6.9	82.9	0	
2005-Sep-08	12:09	554	6.6	8.25	73.9	6.9	86.4	0	
2005-Sep-08	12:09	641	6.6	8.25	77.2	6.8	89.8	0	
2005-Sep-08	12:10	705	6.6	8.25	80.6	6.7	93.3	0	
2005-Sep-08	12:10	517	2.5	8.24	83.5	2.8	96.4	0	
2005-Sep-08	12:11	568	2.5	8.25	84.7	2.6	97.7	0	
2005-Sep-08	12:11	604	2.5	8.25	85.9	2.6	99.0	0	
2005-Sep-08	12:12	632	2.5	8.24	87.2	2.5	100.3	0	
2005-Sep-08	12:12	645	2.5	8.24	88.4	2.6	101.7	0	
2005-Sep-08	12:13	677	2.5	8.24	89.7	2.7	103.0	0	
2005-Sep-08	12:13	710	2.5	8.24	90.9	2.6	104.3	0	
2005-Sep-08	12:14	732	2.5	8.24	92.1	2.6	105.6	0	
2005-Sep-08	12:14	1309	0.0	8.25	92.5	0.0	106.1	0	
2005-Sep-08	12:15	1291	0.0	8.25	92.5	0.0	106.1	0	
2005-Sep-08	12:15								Bump Top Plug

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Well		Field			Service Date		Customer		Job Number	
Hickman B #6					05251-Sep-08		OXY USA, INC.		2205549490	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl/min	bbl	0		
2005-Sep-08	12:15							0	End Displacement	
2005-Sep-08	12:15							0	Reset Total, Vol = 92.54 bbl	
2005-Sep-08	12:15	1295	0.0	8.25	92.5	0.0	106.1	0		
2005-Sep-08	12:15	613	0.0	8.25	0.0	0.0	0.0	0		
2005-Sep-08	12:15								End Job	
2005-Sep-08	12:15	14	0.0	8.25	0.0	0.0	0.0	0		
2005-Sep-08	12:15	9	0.0	8.25	0.0	0.1	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			6.5	72		20				
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density				
			1200		bbl	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						
%	72 bbl	90.2 bbl	°F							
Customer or Authorized Representative			Schlumberger Supervisor				<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			
Fillpot, Gregg			Ahrends, Timothy							

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Date	09/08/05
Company	OXY
Job Number	2205549490
Well Name	Hickman
Well Number	B 6
County	Haskell
State	KS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	5703	
Shoe Length	42.76	
Insert Depth	5660.24	
Hole Size	7 7/8	
Hole Depth	5700	

1st System	
260 sacks	H
1.55 yield	
13.8 weight	
7.1 water	44
cubic ft.	403
height	1769
bbls	71.8

Pipe Volume	91
322 Annular Volume	231
Total Cement	72
Total Water	134

Pipe Factor	0.01594	0.01594
Annular Factor	0.0406	
Height Factor	4.3898	

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

Casing lift 3765
Cement lift 797

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

Test 3000

0 Mud

20 Chemical Wash

72 Lead **13.8**

0 Tail **0**

90.2 Displacement

2000 Maximum Pressure

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

Pump Time @ 5 BPM 32 MIN