

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM

Form ACO-1  
September 1999

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form Must Be Taped  
**ORIGINAL**

Operator: License # 5447  
Name: OXY USA Inc.  
Address: P.O. Box 2528  
City/State/Zip: Liberal, KS 67905

API No. 15 - 081-21561-0000  
County: Haskell  
NE - SW - SW Sec 7 Twp 29 S. R. 34W  
1280 feet from (S) N (circle one) Line of Section  
1250 feet from E (W) (circle one) Line of Section

Purchaser: Regency  
Operator Contact Person: Vicki Carder  
Phone: (620) 629-4200

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW (SW)  
Lease Name: Howell A Well #: 4  
Field Name: Panoma Council Grove

Contractor: Name: Cheyenne Drilling LP  
License: 33375  
Wellsite Geologist: NA

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl, Cathodic)

Producing Formation: Council Grove  
Elevation: Ground: 3022 Kelly Bushing: 3028  
Total Depth: 3120 Plug Back Total Depth: 3077  
Amount of Surface Pipe Set and Cemented at 747 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.

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. \_\_\_\_\_  
01/12/05 01/14/05 02/17/05  
Spud Date or Date Reached TD Completion Date or Recompletion Date

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Drilling Fluid Management Plan ALT IWHM  
(Data must be collected from the Reserve Pit) 4-6-07  
Chloride content 26000 mg/l ppm Fluid volume 900 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp, \_\_\_\_\_ S. R.  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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

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

Signature: Vicki Carder  
Title: Capital Project Date May 6, 2005  
Subscribed and sworn to before me this 6<sup>th</sup> day of May  
20 05  
Notary Public: Anita Peterson  
Date Commission Expires: Oct 1, 2005

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

ANITA PETERSON  
MY COMMISSION EXPIRES  
October 1, 2005

Operator Name: OXY USA Inc. Lease Name: Howell A Well #: 4  
 Sec. 7 Twp. 29 S. R. 34W  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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2552	476
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2577	451
List All E. Logs Run: Neutron	TracerScan	Winfield	2619	409
Cement Bond/SCMT Map		Towanda	2682	346
		Ft. Riley	2738	290
		Matfield	2810	218
		Wreford	2828	200
		Council Grove	2855	173

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	747	C	220	35/65 Poz + Additives
					C	170	Class C + Additives
Production	7 7/8	4 1/2	10.5	3120	C	200	Class C + Additives
					H	200	50/50 Poz + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
2	2856-2890	Acid - 4500 gls 15% HCL	
4	2890-2933	Diverta Frac - 17,349 gls WF125 gelled wtr, 10,325# 100 mesh sand, 23,585 gls WF125 gel 75%N2, 192,500# 16/30 sand	

TUBING RECORD	Size 2 3/8	Set At 2965	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 03/08/05	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf 132	Water Bbls 28	Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease  
 (If vented, Submit ACO-18)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_

Schlumberger

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Cementing Service Report

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Customer: Schlumberger USA, Inc.						Job Number: 2205547404			
Well: HOWELL 'A' 4		Location (legal): SEC7-T29SR34W		Schlumberger Location: Perryton, TX		Job Start: 2005-Jan-12			
Field: COUNCIL GROVE		Formation Name/Type:		Deviation: °	Bit Size: 12.3 in	Well MD: 748 ft	Well TVD: 748 ft		
County: HASKELL		State/Province: KANSAS		BHP: psi	BHST: 87 °F	BHCT: °F	Pore Press. Gradient: psi/ft		
Well Master: 0630652843		API / UWI:		Casing/Liner					
Rig Name: CHEYENNE 8	Drilled For: Oil & Gas	Service Via: Land		Depth, ft: 751	Size, in: 8.63	Weight, lb/ft: 24	Grade:	Thread:	
Offshore Zone:	Well Class: New	Well Type: Development		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 Surface Casing		Perforations/Open Hole					
Max. Allowed Tubing Pressure: psi	Max. Allowed Ann. Pressure: psi	Wellhead Connection: 8 5/8" H&SM		Top, ft:	Bottom, ft:	spf:	No. of Shots:	Total Interval: ft	
Service Instructions: CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 220 SK 35:65 POZ:CLASS C + 6% D020 + 2% S001 + 0.5 pps D029 170 SK CLASS C + 2% S001 + 0.25 pps D029				Treat Down Casing:	Displacement: 45.1 bbl	Packer Type:	Packer Depth: ft		
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Tubing Vol.:	Casing Vol.:	Annular Vol.:	Open Hole Vol.:				
Lift Pressure: 200 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Casing Tools		Squeeze Job	
No. Centralizers:	Top Plugs: 1	Bottom Plugs:		Shoe Type:	Shoe Depth: 751 ft	Tool Type:			
Cement Head Type: Single		Stage Tool Depth: ft	Collar Type:	Collar Depth: 708 ft	Squeeze Type:	Tool Depth: ft			
Job Scheduled For:		Arrived on Location: 2005-Jan-12 17:00	Leave Location: 2005-Jan-12 22:30	Stage Tool Depth: ft	Tail Pipe Size: in	Tail Pipe Depth: ft			
		Collar Depth: 708 ft	Sqz Total Vol: bbl						
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2005-Jan-12	20:20	0	0.0	0.0	8.35	0.0	0.0	0	
2005-Jan-12	20:20	0	0.0	0.0	8.35	0.0	0.0	0	
2005-Jan-12	20:20								Start Job
2005-Jan-12	20:20	5	0.0	0.0	8.35	0.0	0.0	0	
2005-Jan-12	20:21	60	0.0	0.0	8.35	0.0	0.4	0	
2005-Jan-12	20:21	64	1.0	0.5	8.35	0.4	0.4	0	
2005-Jan-12	20:22	2412	0.0	0.6	8.35	0.0	0.5	0	
2005-Jan-12	20:22	2303	0.0	0.6	8.35	0.0	0.5	0	
2005-Jan-12	20:23	5	0.0	0.6	8.35	0.0	0.5	0	
2005-Jan-12	20:23	5	0.0	0.6	8.35	0.0	0.5	0	
2005-Jan-12	20:23								Start Pumping Spacer
2005-Jan-12	20:23	50	1.0	0.7	8.35	2.1	0.5	0	
2005-Jan-12	20:24	78	5.2	2.2	8.35	5.0	2.4	0	
2005-Jan-12	20:24	146	5.5	4.9	8.35	5.6	5.1	0	
2005-Jan-12	20:25	151	5.5	7.7	8.35	5.7	7.9	0	
2005-Jan-12	20:25	146	5.4	10.4	8.35	5.6	10.7	0	
2005-Jan-12	20:26	142	5.4	13.1	8.38	5.5	13.4	0	
2005-Jan-12	20:26								End Spacer
2005-Jan-12	20:26	151	5.5	14.7	9.01	5.5	15.1	0	
2005-Jan-12	20:26	151	5.5	14.8	9.05	5.5	15.2	0	
2005-Jan-12	20:26								Reset Total, Vol = 14.83 bbl
2005-Jan-12	20:26								Start Mixing Lead Slurry

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Job Number  
2205547404

Well		Field			Service Date		Customer			Message
HOWELL 'A' #4		COUNCIL GROVE			0512-Jan-12		OXY USA, INC.			
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl			
2005-Jan-12	20:26	137	5.4	0.3	9.16	5.5	0.3	0	0	KCC MAY 06 2005 CONFIDENTIAL
2005-Jan-12	20:26	151	5.5	1.0	9.41	5.6	1.0	0	0	
2005-Jan-12	20:27	142	5.5	3.8	10.17	5.7	3.9	0	0	
2005-Jan-12	20:27	137	5.6	6.6	10.32	5.8	6.6	0	0	
2005-Jan-12	20:28	119	5.3	9.3	10.47	5.5	9.3	0	0	
2005-Jan-12	20:28	133	5.3	12.0	10.98	5.3	12.0	0	0	
2005-Jan-12	20:29	133	5.3	14.6	11.83	5.5	14.7	0	0	
2005-Jan-12	20:29	137	5.4	17.3	12.51	5.3	17.4	0	0	
2005-Jan-12	20:30	124	5.4	20.0	12.25	5.5	20.1	0	0	
2005-Jan-12	20:30	124	5.4	22.7	12.17	5.5	22.9	0	0	
2005-Jan-12	20:31	128	5.4	25.5	12.22	5.5	25.6	0	0	
2005-Jan-12	20:31	119	5.5	28.2	12.24	5.6	28.4	0	0	
2005-Jan-12	20:32	137	5.9	31.1	12.17	5.9	31.3	0	0	
2005-Jan-12	20:32	137	5.9	34.0	12.16	6.1	34.2	0	0	
2005-Jan-12	20:33	124	5.6	36.9	12.30	5.7	37.2	0	0	
2005-Jan-12	20:33	124	5.6	39.7	12.42	5.6	40.0	0	0	
2005-Jan-12	20:34	128	5.6	42.5	12.44	5.7	42.9	0	0	
2005-Jan-12	20:34	128	5.6	45.3	12.38	5.6	45.7	0	0	
2005-Jan-12	20:35	124	5.6	48.1	12.16	5.7	48.5	0	0	
2005-Jan-12	20:35	128	5.6	50.9	12.13	5.7	51.4	0	0	
2005-Jan-12	20:36	128	5.6	53.7	12.21	5.7	54.2	0	0	
2005-Jan-12	20:36	128	5.6	56.5	12.36	5.8	57.1	0	0	
2005-Jan-12	20:37	133	5.6	59.4	12.40	5.7	60.0	0	0	
2005-Jan-12	20:37	128	5.6	62.2	12.15	5.7	62.8	0	0	
2005-Jan-12	20:38	124	5.6	65.0	11.98	5.7	65.7	0	0	
2005-Jan-12	20:38	128	5.6	67.9	12.30	5.7	68.6	0	0	
2005-Jan-12	20:39	133	5.7	70.8	12.54	5.7	71.5	0	0	
2005-Jan-12	20:39	133	5.7	73.6	12.69	5.8	74.4	0	0	
2005-Jan-12	20:40	133	5.7	76.5	12.47	5.7	77.2	0	0	
2005-Jan-12	20:40	133	5.7	79.3	12.43	5.7	80.1	0	0	
2005-Jan-12	20:41	137	5.7	82.1	12.53	5.7	83.0	0	0	
2005-Jan-12	20:41	128	5.7	85.0	12.30	5.7	85.8	0	0	
2005-Jan-12	20:41									End Lead Slurry
2005-Jan-12	20:41	142	5.7	85.6	12.86	5.7	86.5	0	0	
2005-Jan-12	20:41	142	5.7	85.8	13.01	5.6	86.7	0	0	
2005-Jan-12	20:41									Reset Total, Vol = 85.80 bbl
2005-Jan-12	20:41	137	5.7	0.2	13.13	5.6	0.2	0	0	Start Mixing Tail Slurry
2005-Jan-12	20:41									
2005-Jan-12	20:42	156	5.6	2.0	13.69	5.6	2.0	0	0	
2005-Jan-12	20:42	137	5.2	4.6	14.51	5.3	4.6	0	0	
2005-Jan-12	20:43	146	5.2	7.1	14.91	5.2	7.2	0	0	
2005-Jan-12	20:43	156	5.2	9.7	14.94	5.3	9.8	0	0	
2005-Jan-12	20:44	146	5.1	12.3	14.91	5.3	12.4	0	0	
2005-Jan-12	20:44	142	5.1	14.8	14.95	5.1	15.0	0	0	
2005-Jan-12	20:45	151	5.5	17.4	14.88	5.2	17.6	0	0	
2005-Jan-12	20:45	169	5.5	20.2	14.93	5.5	20.4	0	0	
2005-Jan-12	20:46	169	5.6	23.0	14.96	5.6	23.2	0	0	
2005-Jan-12	20:46	165	5.6	25.8	14.94	5.6	26.0	0	0	
2005-Jan-12	20:47	169	5.6	28.6	14.90	5.5	28.8	0	0	
2005-Jan-12	20:47	165	5.6	31.4	14.85	5.7	31.6	0	0	
2005-Jan-12	20:48	169	5.6	34.2	14.79	5.7	34.5	0	0	
2005-Jan-12	20:48	169	5.6	37.0	14.85	5.5	37.3	0	0	
2005-Jan-12	20:49	188	5.6	39.8	15.17	5.6	40.1	0	0	
2005-Jan-12	20:49	169	3.1	42.6	15.17	5.6	42.9	0	0	

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Well		Field			Service Date		Customer		Job Number
HOWELL 'A' #4		COUNCIL GROVE			0512-Jan-12		OXY USA, INC.		2205547404
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2005-Jan-12	20:49								End Tail Slurry
2005-Jan-12	20:49	0	0.0	42.6	14.73	0.3	43.2	0	
2005-Jan-12	20:49	0	0.0	42.6	14.68	0.1	43.2	0	
2005-Jan-12	20:49								Reset Total, Vol = 41.46 bbl
2005-Jan-12	20:49								Drop Top Plug
2005-Jan-12	20:49	-5	0.0	0.0	14.63	0.1	0.0	0	
2005-Jan-12	20:49	0	0.0	0.0	14.62	0.1	0.0	0	
2005-Jan-12	20:49								Start Displacement
2005-Jan-12	20:50	-5	0.0	0.0	14.61	0.0	0.0	0	
2005-Jan-12	20:50	-5	0.0	0.0	14.61	0.0	0.0	0	
2005-Jan-12	20:51	-9	0.0	0.0	13.89	0.0	0.0	0	
2005-Jan-12	20:51	-5	0.0	0.0	13.16	0.0	0.0	0	
2005-Jan-12	20:52	-5	0.0	0.0	11.37	0.0	0.0	0	
2005-Jan-12	20:52	-5	0.0	0.0	10.53	0.0	0.0	0	
2005-Jan-12	20:53	-5	0.0	0.0	10.36	0.0	0.0	0	
2005-Jan-12	20:53	-5	0.0	0.0	9.93	0.0	0.0	0	
2005-Jan-12	20:54	-5	0.0	0.0	9.01	0.0	0.2	0	
2005-Jan-12	20:54	-5	0.0	0.0	8.98	0.0	0.2	0	
2005-Jan-12	20:55	-5	0.0	0.0	8.96	0.0	0.2	0	
2005-Jan-12	20:55	-5	0.0	0.0	8.97	0.0	0.2	0	
2005-Jan-12	20:56	-5	0.0	0.0	8.97	0.0	0.2	0	
2005-Jan-12	20:56	55	0.0	0.0	8.97	1.7	0.3	0	
2005-Jan-12	20:57	60	4.9	1.6	9.01	5.2	2.3	0	
2005-Jan-12	20:57	96	5.3	4.2	9.00	5.6	5.0	0	
2005-Jan-12	20:58	92	5.4	6.8	8.38	5.6	7.8	0	
2005-Jan-12	20:58	82	5.1	9.5	8.38	5.4	10.5	0	
2005-Jan-12	20:59	101	5.2	12.1	8.47	5.3	13.5	0	
2005-Jan-12	20:59	119	5.1	14.7	8.47	5.3	16.1	0	
2005-Jan-12	21:00	128	5.2	17.2	8.36	5.2	18.7	0	
2005-Jan-12	21:00	146	5.1	19.8	8.36	5.2	21.4	0	
2005-Jan-12	21:01	146	4.5	22.3	8.38	4.7	23.9	0	
2005-Jan-12	21:01	151	4.5	24.6	8.38	4.6	26.2	0	
2005-Jan-12	21:02	169	4.5	26.9	8.36	4.7	28.6	0	
2005-Jan-12	21:02	183	4.5	29.2	8.36	4.5	30.9	0	
2005-Jan-12	21:03	197	4.5	31.4	8.35	4.6	33.2	0	
2005-Jan-12	21:03	220	4.5	33.7	8.35	4.7	35.5	0	
2005-Jan-12	21:04	211	3.3	35.8	8.35	3.6	37.7	0	
2005-Jan-12	21:04	188	2.1	37.1	8.35	2.1	39.0	0	
2005-Jan-12	21:05	188	2.0	38.2	8.35	2.1	40.1	0	
2005-Jan-12	21:05	192	1.7	39.0	8.35	1.7	41.0	0	
2005-Jan-12	21:06	192	1.7	39.9	8.35	1.7	41.9	0	
2005-Jan-12	21:06	201	1.7	40.7	8.35	1.7	42.7	0	
2005-Jan-12	21:07	201	1.7	41.5	8.35	1.7	43.6	0	
2005-Jan-12	21:07	215	1.7	42.4	8.35	1.7	44.4	0	
2005-Jan-12	21:08	220	1.7	43.2	8.35	1.7	45.3	0	
2005-Jan-12	21:08	439	0.0	43.7	8.35	0.0	45.8	0	
2005-Jan-12	21:08	439	0.0	43.7	8.35	0.0	45.8	0	
2005-Jan-12	21:08								Bump Top Plug
2005-Jan-12	21:08	439	0.0	43.7	8.35	0.0	45.8	0	
2005-Jan-12	21:08								End Displacement
2005-Jan-12	21:09	439	0.0	43.7	8.35	0.0	45.8	0	
2005-Jan-12	21:09								Reset Total, Vol = 43.72 bbl
2005-Jan-12	21:09	439	0.0	0.0	8.35	0.0	0.0	0	
2005-Jan-12	21:09	50	0.0	0.0	8.35	0.0	0.0	0	

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Well HOWELL 'A' #4		Field COUNCIL GROVE		Service Date 0512-Jan-12		Customer OXY USA, INC.		Job Number 2205547404	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	Message
2005-Jan-12	21:10	165	0.0	0.0	8.35	0.0	0.0	0	KCC MAY 05 2005 CONFIDENTIAL
2005-Jan-12	21:10	179	0.4	0.0	8.35	0.2	0.0	0	
2005-Jan-12	21:11	211	0.8	0.4	8.35	0.9	0.4	0	
2005-Jan-12	21:11	215	1.0	0.9	8.35	1.1	0.9	0	
2005-Jan-12	21:12	380	0.0	1.4	8.35	0.1	1.4	0	
2005-Jan-12	21:12	389	0.0	1.4	8.35	0.0	1.4	0	
2005-Jan-12	21:13	174	0.0	1.4	8.35	0.0	1.4	0	
2005-Jan-12	21:13	215	0.8	1.6	8.35	0.8	1.6	0	
2005-Jan-12	21:14	348	0.0	1.7	8.35	0.0	1.7	0	
2005-Jan-12	21:14	348	0.0	1.7	8.35	0.0	1.7	0	
2005-Jan-12	21:15	348	0.0	1.7	8.35	0.0	1.7	0	
2005-Jan-12	21:15	0	0.0	1.7	8.35	0.0	1.7	0	
2005-Jan-12	21:15	-5	0.0	1.7	8.35	0.0	1.7	0	
2005-Jan-12	21:15							0	End Job
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5			6	126		10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			400			lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume			
%	126 bbl	45.1 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft	30 bbl	
Customer or Authorized Representative			Schlumberger Supervisor						
FILLPOT, GREGG					Ousley, John		<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed

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Date	01/12/04
Company	OXY
Job Number	2205547404
Well Name	Howell
Well Number	A 4
County	Haskell
State	KS

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	751	
Shoe Length	43	
Insert Depth	708	
Hole Size	12 1/4	
Hole Depth	748	

1st System	
220 sacks	C
2.18 yield	D132,D20,S1,D29
12.2 weight	
12.3 water	64.4
cubic ft.	480
height	1162
bbls	85.4

103	Pipe Volume	48
	Annular Volume	55
	Total Cement	126
	Total Water	135

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

2nd System	
170 sacks	C
1.34 yield	S1,D29
14.8 weight	
6.35 water	26
cubic ft.	228
height	552
bbls	40.6

Casing lift 308  
Cement lift 203

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

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Test 2000

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0 Mud

10 Spacer

85 Lead 12.2

41 Tail 14.8

45.1 Displacement

1500 Maximum Pressure

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

Pump time @ 6 BPM

29 MIN

Schlumberger

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Cementing Service Report

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Well						Location (legal)			Schlumberger Location			Job Number			
HOWELL 'A' 4						SEC7-T29SR34W			Perryton, TX			2205547406			
Field				Formation Name/Type				Deviation		Bit Size		Well MD		Well TVD	
COUNCIL GROVE								°		7.88 in		3,120 ft		3,120 ft	
County				State/Province				BHP		BHST		BHCT		Pore Press. Gradient	
HASKELL				KANSAS				psi		111 °F		°F		psi/ft	
Well Master: 0630652843				API / UWI:				Casing/Liner							
Rig Name		Drilled For		Service Via		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
		Oil & Gas		Land		3126		4.5		10.5					
Offshore Zone		Well Class		Well Type		Tubing/Drill Pipe									
		New		Development		Depth,		Size, in		Weight, lb/ft		Grade		Thread	
Drilling Fluid Type		Max. Density		Plastic V/ cp											
Service Line		Job Type		Perforations/Open Hole											
Cementing		Cem Prod Casing		Top, ft		Bottom, ft		spf		No. of Shots		Total Interval		ft	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		WellHead Connection										ft	
psi		psi		4 1/2" H & SM										in	
Service Instructions														Packer Depth	
CEMENT PROD 4 1/2" CASING:														ft	
20 BBLs CW100															
200 SKS CLASS C + 3% D079 + 0.2 % D046 + 0.25 PPS D029															
200 SKS 50/50 POZ/CLASS H + 2%D20 + 3%M117 + 5 PPSD42 + 5 PPS															
D53 + 0.6 %D112 + 0.25 %D65 + 0.25%D46															
DISPLACE W/ TREATED WATER															
Casing/Tubing Secured <input checked="" type="checkbox"/>				1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>				Casing Tools		Squeeze Job					
Lift Pressure: 790 psi				Pipe Rotated <input type="checkbox"/>				Pipe Reelocated <input type="checkbox"/>				Shoe Type:			
												Shoe Depth: 3126 ft			
No. Centralizers: Top Plugs: 1 Bottom Plugs: 1								Stage Tool Type:				Tool Type:			
Cement Head Type: Single								Stage Tool Depth: ft				Tool Depth: ft			
Job Scheduled For:				Arrived on Location:				Leave Location:				Collar Depth: 3083.23 ft			
2005-Jan-14 14:00				2005-Jan-14 17:56				Collar Depth: 3083.23 ft				Tail Pipe Size: in			
												Tail Pipe Depth: ft			
												Sqz Total Vol: bbl			
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	SK Flowmeter	SK Flowmeter Stage	SK Flowmeter Total	Message						
2005-Jan-14	15:30	0	0.0	0.0	0.04	106.7	1.8	1.8							
2005-Jan-14	15:30								Start Job						
2005-Jan-14	15:30	0	0.0	0.0	1.36	103.1	5.4	5.4							
2005-Jan-14	15:30								Start Pumping Wash						
2005-Jan-14	15:30	0	0.0	0.0	6.22	6.9	6.5	6.5							
2005-Jan-14	15:30	0	0.0	0.0	7.03	37.0	7.6	7.6							
2005-Jan-14	15:30								Pressure Test Lines						
2005-Jan-14	15:31	5	0.0	0.0	7.44	0.0	10.3	10.3							
2005-Jan-14	15:31								Reset Total, Vol = 0.00 bbl						
2005-Jan-14	15:31	0	0.0	0.0	7.51	0.0	0.0	0.0							
2005-Jan-14	15:31	0	0.0	0.0	0.05	109.6	31.9	31.9							
2005-Jan-14	15:32	0	0.0	0.0	0.04	119.3	92.3	92.3							
2005-Jan-14	15:32	247	0.0	0.0	8.40	0.8	110.9	110.9							
2005-Jan-14	15:33	3799	0.0	0.0	1.25	1.7	111.1	111.1							
2005-Jan-14	15:33	27	0.0	0.0	0.04	90.5	143.0	143.0							
2005-Jan-14	15:34	18	0.0	0.0	0.04	116.2	196.2	196.2							
2005-Jan-14	15:34	105	1.4	0.1	8.16	1.6	230.0	230.0							
2005-Jan-14	15:35	78	0.0	0.8	8.41	0.6	230.8	230.8							
2005-Jan-14	15:35	60	0.0	0.8	8.38	0.2	231.0	231.0							
2005-Jan-14	15:36	55	0.0	0.8	8.38	0.2	231.1	231.1							
2005-Jan-14	15:36	50	0.0	0.8	8.38	0.1	231.1	231.1							
2005-Jan-14	15:37	46	0.0	0.8	8.38	0.1	231.2	231.2							

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Well		Field			Service Date		Customer		Job Number
HOWELL 'A' #4		COUNCIL GROVE			0514-Jan-14		OXY USA, INC.		2205547406
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	SK Flowmeter	SK Flowmeter Stage	SK Flowmeter Total	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl	
2005-Jan-14	15:37	41	0.0	0.8	8.37	0.1	231.3	231.3	<b>KCC</b> MAY 0 5 2005 <b>CONFIDENTIAL</b>
2005-Jan-14	15:38	37	0.0	0.8	8.35	0.1	231.3	231.3	
2005-Jan-14	15:38	27	0.0	0.8	8.31	0.1	231.4	231.4	
2005-Jan-14	15:39	14	0.0	0.8	8.26	0.0	231.4	231.4	
2005-Jan-14	15:39	14	0.0	0.8	8.25	0.0	231.4	231.4	
2005-Jan-14	15:40	14	0.0	0.8	8.22	0.0	231.4	231.4	
2005-Jan-14	15:40	14	0.0	0.8	8.20	0.0	231.4	231.4	
2005-Jan-14	15:41	14	0.0	0.8	8.19	0.0	231.4	231.4	
2005-Jan-14	15:41	9	0.0	0.8	8.17	0.0	231.4	231.4	
2005-Jan-14	15:42	9	0.0	0.8	8.15	0.0	231.4	231.4	
2005-Jan-14	15:42	9	0.0	0.8	8.15	0.0	231.4	231.4	
2005-Jan-14	15:43	9	0.0	0.8	8.14	0.0	231.4	231.4	
2005-Jan-14	15:43	9	0.0	0.8	8.13	0.0	231.4	231.4	
2005-Jan-14	15:44	9	0.0	0.8	8.12	0.0	231.4	231.4	
2005-Jan-14	15:44	9	0.0	0.8	8.11	0.0	231.4	231.4	
2005-Jan-14	15:45	9	0.0	0.8	8.11	0.0	231.4	231.4	
2005-Jan-14	15:45	9	0.0	0.8	8.11	0.0	231.4	231.4	
2005-Jan-14	15:46	9	0.0	0.8	8.11	0.0	231.4	231.4	
2005-Jan-14	15:46	9	0.0	0.8	8.11	0.0	231.4	231.4	
2005-Jan-14	15:47	18	0.0	0.8	8.33	0.3	231.5	231.5	
2005-Jan-14	15:47	14	0.0	1.1	8.42	0.2	232.0	232.0	
2005-Jan-14	15:48	9	0.0	1.1	8.42	0.2	232.1	232.1	
2005-Jan-14	15:48	137	2.1	1.5	8.42	2.2	232.4	232.4	
2005-Jan-14	15:49	156	3.0	2.8	8.42	3.3	233.9	233.9	
2005-Jan-14	15:49	215	3.2	4.4	8.42	3.6	235.6	235.6	
2005-Jan-14	15:50	174	3.2	6.0	8.42	3.6	237.4	237.4	
2005-Jan-14	15:50	179	3.9	7.9	8.42	4.2	239.4	239.4	
2005-Jan-14	15:51	252	3.9	9.8	8.42	4.2	9.9	9.9	
2005-Jan-14	15:51	266	3.9	11.8	8.42	4.3	12.0	12.0	
2005-Jan-14	15:52	224	3.9	13.7	8.42	4.2	14.1	14.1	
2005-Jan-14	15:52	256	3.9	15.7	8.42	4.2	16.2	16.2	
2005-Jan-14	15:53	266	3.9	17.6	8.42	4.2	18.4	18.4	
2005-Jan-14	15:53	252	3.9	19.6	8.42	4.2	20.5	20.5	
2005-Jan-14	15:54	238	3.9	21.5	8.42	4.2	22.6	22.6	
2005-Jan-14	15:54								End Wash
2005-Jan-14	15:54	256	3.9	22.2	8.42	4.2	23.3	23.3	
2005-Jan-14	15:54								Reset Total, Vol = 22.32 bbl
2005-Jan-14	15:54	252	3.9	22.3	8.42	4.2	23.4	23.4	
2005-Jan-14	15:54	266	3.9	0.2	8.42	4.2	0.2	0.2	
2005-Jan-14	15:54								Start Pumping Spacer
2005-Jan-14	15:54	256	3.9	1.2	8.42	4.2	1.2	1.2	
2005-Jan-14	15:55	270	3.9	3.1	8.28	4.0	3.3	3.3	
2005-Jan-14	15:55								End Spacer
2005-Jan-14	15:55	261	3.9	4.4	8.33	4.1	4.6	4.6	
2005-Jan-14	15:55								Reset Total, Vol = 4.49 bbl
2005-Jan-14	15:55	261	3.9	4.5	8.35	4.2	4.8	4.8	
2005-Jan-14	15:55								Start Mixing Lead Slurry
2005-Jan-14	15:55	256	3.9	0.3	8.73	3.9	0.3	0.3	
2005-Jan-14	15:55	243	3.9	0.5	8.99	4.2	0.5	0.5	
2005-Jan-14	15:56	174	3.9	2.4	10.01	3.6	2.3	2.3	
2005-Jan-14	15:56	124	3.9	4.4	10.67	3.2	4.1	4.1	
2005-Jan-14	15:57	275	3.9	6.4	11.34	3.1	5.6	5.6	
2005-Jan-14	15:57	229	3.9	8.3	11.31	3.1	7.0	7.0	
2005-Jan-14	15:58	201	3.9	10.3	10.59	3.1	8.7	8.7	

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Well		Field			Service Date		Customer		Job Number	
HOWELL 'A' #4		COUNCIL GROVE			0514-Jan-14		OXY USA, INC.		2205547406	
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	SK Flowmeter	SK Flowmeter Stage	SK Flowmeter Total	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl		
2005-Jan-14	15:58	252	5.7	13.1	10.69	5.3	11.1	11.1	<b>KCC</b> <b>MAY 0 8 2005</b> <b>CONFIDENTIAL</b>	
2005-Jan-14	15:59	270	5.7	15.9	10.63	5.8	13.8	13.8		
2005-Jan-14	15:59	284	5.7	18.8	12.78	5.8	18.4	18.4		
2005-Jan-14	16:00	256	5.7	21.7	10.76	5.5	21.3	21.3		
2005-Jan-14	16:00	146	5.7	24.5	10.76	5.6	24.1	24.1		
2005-Jan-14	16:01	146	5.7	27.4	10.86	5.9	26.9	26.9		
2005-Jan-14	16:01	243	5.7	30.2	11.23	5.3	29.7	29.7		
2005-Jan-14	16:02	243	5.7	33.1	10.97	5.2	32.3	32.3		
2005-Jan-14	16:02	197	5.7	35.9	10.63	5.6	35.1	35.1		
2005-Jan-14	16:03	146	5.7	38.8	10.51	6.1	38.8	38.8		
2005-Jan-14	16:03	137	5.7	41.6	10.92	5.7	46.7	46.7		
2005-Jan-14	16:04	128	5.7	44.5	10.98	5.7	49.5	49.5		
2005-Jan-14	16:04	137	5.7	47.3	10.64	5.4	52.3	52.3		
2005-Jan-14	16:05	151	5.7	50.2	10.54	5.9	55.0	55.0		
2005-Jan-14	16:05	156	5.7	53.0	10.51	5.7	57.8	57.8		
2005-Jan-14	16:06	165	5.7	55.9	10.44	5.8	60.8	60.8		
2005-Jan-14	16:06	151	5.7	58.8	10.64	5.5	63.7	63.7		
2005-Jan-14	16:07	128	5.7	61.6	10.69	28.3	67.8	67.8		
2005-Jan-14	16:07	160	5.7	64.5	11.59	5.4	73.2	73.2		
2005-Jan-14	16:08	179	5.7	67.3	12.17	5.9	75.9	75.9		
2005-Jan-14	16:08	160	5.7	70.3	12.17	5.7	78.9	78.9		
2005-Jan-14	16:09	146	5.7	73.1	11.97	5.6	81.7	81.7		
2005-Jan-14	16:09	169	5.7	76.0	11.63	5.8	84.5	84.5		
2005-Jan-14	16:10	343	5.7	78.8	11.41	5.5	87.2	87.2		
2005-Jan-14	16:10	151	5.7	81.7	11.24	5.8	90.1	90.1		
2005-Jan-14	16:11	169	5.7	84.5	11.40	5.5	93.0	93.0		
2005-Jan-14	16:11	183	5.7	87.4	11.39	5.5	97.7	97.7		
2005-Jan-14	16:12	151	5.7	90.2	11.33	5.5	100.5	100.5		
2005-Jan-14	16:12	128	5.7	93.1	11.26	5.6	103.3	103.3		
2005-Jan-14	16:13	114	5.7	95.9	11.18	6.0	106.2	106.2		
2005-Jan-14	16:13	119	5.7	98.8	10.91	21.3	110.8	110.8		
2005-Jan-14	16:14	137	5.7	101.6	10.63	5.8	114.1	114.1		
2005-Jan-14	16:14	146	5.7	104.5	10.47	6.0	119.5	119.5		
2005-Jan-14	16:15	119	5.7	107.4	10.44	9.6	126.8	126.8		
2005-Jan-14	16:15	101	5.7	110.2	13.76	5.9	133.5	133.5		
2005-Jan-14	16:16	96	5.7	113.1	13.31	6.9	140.2	140.2		
2005-Jan-14	16:16	105	5.7	113.6	15.02	13.1	141.1	141.1		
2005-Jan-14	16:16								End Lead Slurry	
2005-Jan-14	16:16								Reset Total, Vol = 113.82 bbl	
2005-Jan-14	16:16	119	5.7	113.8	10.08	28.1	141.7	141.7		
2005-Jan-14	16:16								Start Mixing Tail Slurry	
2005-Jan-14	16:16	128	5.7	0.2	10.08	29.8	1.0	1.0		
2005-Jan-14	16:16	128	5.7	2.1	15.52	13.4	5.7	5.7		
2005-Jan-14	16:17	151	5.7	4.9	12.30	5.7	11.3	11.3		
2005-Jan-14	16:17	201	5.7	7.8	12.69	5.6	14.1	14.1		
2005-Jan-14	16:18	188	5.7	10.6	12.40	5.7	16.9	16.9		
2005-Jan-14	16:18	256	5.7	13.5	13.35	5.8	19.7	19.7		
2005-Jan-14	16:19	233	5.7	16.3	13.41	5.7	22.5	22.5		
2005-Jan-14	16:19	252	5.7	19.2	13.63	5.7	25.3	25.3		
2005-Jan-14	16:20	233	5.7	22.1	13.50	5.7	28.2	28.2		
2005-Jan-14	16:20	270	5.7	25.0	13.75	5.6	31.1	31.1		
2005-Jan-14	16:21	261	5.7	27.9	14.02	5.7	33.9	33.9		
2005-Jan-14	16:21	275	5.7	30.7	13.93	5.7	36.7	36.7		
2005-Jan-14	16:22	270	5.7	33.6	13.90	5.7	39.6	39.6		

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Well		Field			Service Date		Customer		Job Number
HOWELL 'A' #4		COUNCIL GROVE			0514-Jan-14		OXY USA, INC.		2205547406
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	SK Flowmeter	SK Flowmeter Stage	SK Flowmeter Total	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl	
2005-Jan-14	16:22	279	5.7	36.4	13.75	5.8	42.4	42.4	<b>KCC</b> <b>MAY 06 2005</b> <b>CONFIDENTIAL</b>
2005-Jan-14	16:23	266	5.7	39.3	13.63	5.7	45.3	45.3	
2005-Jan-14	16:23	284	5.7	42.1	13.82	5.7	48.1	48.1	
2005-Jan-14	16:24	284	5.7	45.0	14.14	5.7	50.9	50.9	
2005-Jan-14	16:24	261	5.7	47.8	13.95	5.6	53.8	53.8	
2005-Jan-14	16:25	256	5.7	50.7	13.87	5.6	56.6	56.6	
2005-Jan-14	16:25	266	5.7	53.5	13.91	5.6	59.4	59.4	
2005-Jan-14	16:26	279	5.7	56.4	14.09	5.6	62.2	62.2	
2005-Jan-14	16:26	307	5.6	59.2	14.80	5.5	65.0	65.0	
2005-Jan-14	16:27								
2005-Jan-14	16:27	55	1.6	60.5	13.70	3.6	66.3	66.3	Reset Total, Vol = 60.47 bbl
2005-Jan-14	16:27								
2005-Jan-14	16:27	14	0.0	60.5	13.69	1.8	66.3	66.3	
2005-Jan-14	16:27	14	0.0	0.0	14.55	0.5	0.0	0.0	
2005-Jan-14	16:27								Drop Top Plug
2005-Jan-14	16:27	14	0.0	0.0	14.68	0.3	0.1	0.1	
2005-Jan-14	16:27								Start Displacement
2005-Jan-14	16:27	5	0.0	0.0	1.51	26.1	5.2	5.2	
2005-Jan-14	16:27	0	0.0	0.0	0.62	14.0	12.9	12.9	
2005-Jan-14	16:28	18	0.0	0.0	1.54	16.8	19.2	19.2	
2005-Jan-14	16:28	110	0.0	0.0	10.53	4.1	21.3	21.3	
2005-Jan-14	16:29	316	0.0	0.0	8.97	5.7	24.0	24.0	
2005-Jan-14	16:29	114	0.0	0.0	8.89	25.1	26.8	26.8	
2005-Jan-14	16:30	169	0.0	0.0	10.31	0.0	39.8	39.8	
2005-Jan-14	16:30	105	0.0	0.0	10.84	17.9	43.0	43.0	
2005-Jan-14	16:31	275	0.0	0.0	12.25	17.4	50.7	50.7	
2005-Jan-14	16:31	330	0.0	0.0	8.36	6.7	58.6	58.6	
2005-Jan-14	16:32	18	0.0	0.0	8.60	0.0	60.5	60.5	
2005-Jan-14	16:32	9	0.0	0.0	8.29	0.0	60.5	60.5	
2005-Jan-14	16:33	5	0.0	0.0	8.29	0.0	60.5	60.5	
2005-Jan-14	16:33	9	0.0	0.0	8.29	0.0	60.5	60.5	
2005-Jan-14	16:34	5	0.0	0.0	8.29	0.2	60.5	60.5	
2005-Jan-14	16:34	60	3.9	1.3	8.45	4.6	61.8	61.8	
2005-Jan-14	16:35	69	3.9	3.2	8.42	4.6	64.1	64.1	
2005-Jan-14	16:35	73	3.9	5.2	8.42	5.2	66.5	66.5	
2005-Jan-14	16:36	87	3.9	7.1	8.42	5.1	69.0	69.0	
2005-Jan-14	16:36	87	3.9	9.1	8.42	5.1	71.6	71.6	
2005-Jan-14	16:37	82	3.9	11.0	8.42	5.4	74.1	74.1	
2005-Jan-14	16:37	82	3.9	13.0	8.42	5.4	76.8	76.8	
2005-Jan-14	16:38	87	3.9	14.9	8.42	5.3	79.5	79.5	
2005-Jan-14	16:38	92	3.9	16.9	8.42	3.8	81.7	81.7	
2005-Jan-14	16:39	220	3.9	21.4	8.42	3.2	21.4	21.4	
2005-Jan-14	16:39	220	3.9	23.3	8.42	4.3	23.5	23.5	
2005-Jan-14	16:40	247	3.9	25.3	8.42	4.2	25.6	25.6	
2005-Jan-14	16:40	275	3.9	27.2	8.42	4.4	27.8	27.8	
2005-Jan-14	16:41	320	3.9	29.2	8.42	4.3	29.9	29.9	
2005-Jan-14	16:41	366	3.9	31.1	8.42	4.2	32.1	32.1	
2005-Jan-14	16:42	426	3.9	33.1	8.42	4.3	34.2	34.2	
2005-Jan-14	16:42	458	3.9	35.0	8.42	4.3	36.4	36.4	
2005-Jan-14	16:43	513	3.9	37.0	8.42	4.3	38.6	38.6	
2005-Jan-14	16:43	563	3.9	39.0	8.42	4.2	40.7	40.7	
2005-Jan-14	16:44	554	2.5	40.5	8.42	2.9	42.4	42.4	
2005-Jan-14	16:44	586	2.5	41.7	8.42	2.9	43.8	43.8	
2005-Jan-14	16:45	609	2.5	43.0	8.42	2.8	45.3	45.3	

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Well		Field			Service Date		Customer		Job Number	
HOWELL 'A' #4		COUNCIL GROVE			0514-Jan-14		OXY USA, INC.		2205547406	
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	SK Flowmeter	SK Flowmeter Stage	SK Flowmeter Total	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl		
2005-Jan-14	16:45	641	2.5	44.2	8.42	2.7	46.7	46.7	<b>KCC</b> <b>MAY 06 2005</b> <b>CONFIDENTIAL</b>	
2005-Jan-14	16:46	673	2.3	45.4	8.42	2.5	48.0	48.0		
2005-Jan-14	16:46	696	2.3	46.5	8.42	2.5	49.3	49.3		
2005-Jan-14	16:47	719	2.2	47.7	8.42	2.5	50.5	50.5		
2005-Jan-14	16:47	737	2.2	48.8	8.42	2.5	51.8	51.8		
2005-Jan-14	16:48	1140	2.2	49.9	8.42	2.5	53.0	53.0		
2005-Jan-14	16:48	1346	0.0	49.9	8.42	0.5	53.1	53.1		
2005-Jan-14	16:48								Bump Top Plug	
2005-Jan-14	16:48	1350	0.0	49.9	8.42	0.4	53.2	53.2		
2005-Jan-14	16:48								End Displacement	
2005-Jan-14	16:48								Reset Total, Vol = 49.94 bbl	
2005-Jan-14	16:48	1369	0.0	49.9	8.40	0.3	53.2	53.2		
2005-Jan-14	16:48	1364	0.0	0.0	8.40	0.1	0.0	0.0		
2005-Jan-14	16:49	1350	0.0	0.0	8.39	0.2	0.1	0.1		
2005-Jan-14	16:49	1341	0.0	0.0	8.39	0.2	0.2	0.2		
2005-Jan-14	16:50	1337	0.0	0.0	8.39	0.1	0.3	0.3		
2005-Jan-14	16:50	1337	0.0	0.0	8.39	0.2	0.3	0.3		
2005-Jan-14	16:51	1337	0.0	0.0	8.39	0.2	0.4	0.4		
2005-Jan-14	16:51	1337	0.0	0.0	8.39	0.2	0.5	0.5		
2005-Jan-14	16:52	1332	0.0	0.0	8.39	0.2	0.6	0.6		
2005-Jan-14	16:52	1332	0.0	0.0	8.39	0.1	0.7	0.7		
2005-Jan-14	16:53	1332	0.0	0.0	8.39	0.1	0.7	0.7		
2005-Jan-14	16:53	1332	0.0	0.0	8.39	0.1	0.8	0.8		
2005-Jan-14	16:54	1328	0.0	0.0	8.39	0.1	0.9	0.9		
2005-Jan-14	16:54	1328	0.0	0.0	8.39	0.2	1.0	1.0		
2005-Jan-14	16:55	18	0.0	0.0	8.39	0.1	1.0	1.0		
2005-Jan-14	16:55								Remark	
2005-Jan-14	16:55	18	0.0	0.0	8.39	0.2	1.0	1.0		
2005-Jan-14	16:55	9	0.0	0.0	8.39	0.2	1.1	1.1		
2005-Jan-14	16:56	5	0.0	0.0	8.39	0.1	1.2	1.2		
2005-Jan-14	16:56								End Job	
2005-Jan-14	16:56	5	0.0	0.0	8.39	0.2	1.2	1.2		

  

Post Job Summary									
Average Pump Rates, bprn					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4			5.6	173	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1200		200	1200			8.43 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To ft					
%	173 bbl	49 bbl	°F						
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed			
Greg, Fillpot,			Landeros, Feliverto						

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Schlumberger

Date	1/14/2005
Company	OXY USA, INC.
Job Number	2205547406
Well Name	HOWELL 'A' 4
Well Number	A-4
County	HASKELL
State	KANSAS

CLASS C + ADDS	
200 sacks	
3.3 yield	
11 weight	
20.3 water	96.9
cubic ft.	660
height	2897
bbls	118

50/50 POZ H + ADDS	
200 sacks	
1.55 yield	
13.8 weight	
7.1 water	34
cubic ft.	310
height	1361
bbls	55.2

sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

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

Pipe Size	4 1/2	
Pipe Weight	10.5	
Pipe Depth	3126	
Shoe Length	42.77	
Insert Depth	3083.23	
Hole Size	7 7/8	
Hole Depth	3120	
Shoe Volume	0.680043	
Pipe Volume	50	
Annular Volume	127	
Total Cement	173	
Total Water	180	
Tubing Factor	0.0159	0.0159
Annular Factor	0.0406	0.0602
Height Factor	4.3898	

O.H.

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Casing lift 2084  
Cement lift 626

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Test 4000	
20	CHEMICAL WASH
0	SPACER
118	Lead 11
55	Tail 13.8
49.0	Displacement
1500 Maximum Pressure	
Pump time @ 4 BPM	55 MIN