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

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: Regency Pipeline
Operator Contact Person: Vicki Carder

Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling, Inc.
License: 5382
Wellsite Geologist: NA

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW 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-entr. Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

12/10/03 12/12/03 12/26/03
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 081-21498-0000
County: Haskell
SE - SE - NW - SW Sec 24 Twp. 27 S. R. 34W
1350 feet from (S) N (circle one) Line of Section
1280 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)

Lease Name: Ward A Well #: 4
Field Name: Panoma Council Grove
Producing Formation: Council Grove

Elevation: Ground: 3015 Kelly Bushing: 3020
Total Depth: 3194 Plug Back Total Depth: 3150
Amount of Surface Pipe Set and Cemented at 894 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.

ALT I WITH 12-27-06
Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)
Chloride content 7000 mg/l ppm Fluid volume 800 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 April 5, 2004

Subscribed and sworn to before me this 5th day of April

20 04

Notary Public: Anita Peterson

Date Commission Expires: Oct. 1, 2005

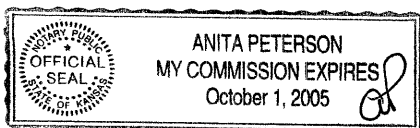
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Yes Letter of Confidentiality Attached
If Denied, Yes Date: _____

_____ Wireline Log Received

_____ Geologist Report Received

_____ UIC Distribution



Side Two

Operator Name: OXY USA Inc. Lease Name: Ward A Well #: 4
 Sec. 24 Twp. 27S S. R. 34WW 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase Group	2609	411
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2625	395
List All E. Logs Run:	Induction Sonic	Winfield	2677	343
Neutron	Tracer Scan	Towanda	2737	283
		Ft. Riley	2779	241
		Matfield	2844	176
		Wreford	2868	152
		Council Grove Group	2893	127

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	894	C	260 150	35/65 Litepoz + Add. Class C + Add.
Production	7 7/8	4 1/2	10.5	3193	C H	185 290	Class C + Add. 50/50 Poz Class H + Add.

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	2894-2910	Acidize - 1000 gls 15% HCL	
		Divert Frac-10,000 gls 20# linear gel,	
		15,000# 100 mesh sand, 49,000 gls 75Q N2	
		w/30# linear gel, 56,000# 12/20 Brady Sand	

TUBING RECORD		Size 2 3/8	Set At 2954	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 02/26/04			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 175	Water Bbls 65	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

Production Interval: Other (Specify) _____

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Customer: Okl USA	Job #: 2205544467
Well name: Ward	Job Type: Surface
Well #: A-1	Bit Size: 7 7/8
County: Haskell	Well Depth: 3194
State: Kansas	Stage: Primary

System 1	
185 sks	Class C+3%D79+.2%D46+.25 pps D29
3.3 :yield	109 bbl cmt
20.34 :H2O	90 bbl H2O
11 wt.	611 cu. ft.
1533 ann Psi	2680 ann. ft

System 2	
290 sks	50/50 Poz/H+2%D20+5 pps D42+5 pps D53+.25%D112+.25%D65
1.55 :yield	80 bbl cmt +3%M117+.25%D46
7.1 :H2O	49 bbl H2O
13.8 wt.	450 cu. ft.
1402 ann. Psi	1973 ann. ft

Mud / Nitrogen	
0 bbl of	8.9 lb/gal mud
0 scf/bbl	0 cooldown nitrogen
0 scf downhole	0 height ann.
0 scf total used	0 psi ann.hyd.

Mud Removal/Spacer	
20 bbl of	CW100 8.4 lb/gal
493 ft ann. Height	215 psi ann. hyd.

Pipe Data			
4.500 O.D.	DV Tool	feet	
4.052 I.D.			
Csg Wt.	Feet	cap.	volume
10.5	3197	0.0159	50.83 bbl
10.5	0	0.0159	0.00 bbl
11.6	0	0.0155	0.00 bbl

TD	3194 feet	3.00 ft above floor
TP	3197 feet	50.83 bbl
SJ	43.15 feet	0.69 bbl
Float @	3153.85 feet	50.15 bbl

Annular Data		
7.875 OH	cap.	0.0602 bbl/ft
0.0406 bbl/ft		0.2278 cuft/ft
24.6471 ft/bbl		4.3898 ft/cuft

Csg Wt. Air 33568.5 lb.
 CrossSect. Area 3.0091 sq. in.
 Bouyancy 6324 lb.
 Csg Wt. Fluid 27244 lb.
 Csg Inside Area 12.8953 sq. in.
 Csg Lift Pressure 2113 psi
 Ann Hydrostatic 2102 psi
 Differential 736 psi

D079 Extender Plug down @ 1750 hrs
 D046 Antifoam Lift Pressure 950 psi
 D029 Celloflake Bumped to 1450 psi
 D020 Bentonite
 D042 Kolite Thickening Time 3:25 hrs
 D053 Gypsum
 D112 Fluid Loss
 D065 TIC Dispersant
 M117 KCl
 D132 Poz

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Totals		
Nitrified Mud	0 bbl with	0 scf/bbl
CW100	20 bbl @	8.4 lb/gal
System 1	109 bbl @	11 lb/gal
System 2	80 bbl @	13.8 lb/gal
Displacement	50.1 bbl with	2 % flush
OpenHole Volume	192 bbl	
Annular Volume	130 bbl	
Total Cement	188 bbl	
Total Water	247 bbl needed	
Differential	736 psi	
Casing Lift	2113 psi	
Top of Scav/Lead	0 ft.	
Top of Tail	1241 ft.	
Total Excess	45 %	

Rig Water			
Chlorides	0	PH	6
Sulfates	0	Tanin/Lignin	n/a
Iron	0	usable?	yes

Displacement Chemicals		
2 % Treated Displacement		
L055	0 gal/1000	0 gal total
L064	2 gal/1000	4 gal total
F103	0 gal/1000	0 gal total
B69	1 lbs.	1 lbs total

Chemical Wash	
J237A	5 gal needed
D122A	10 gal needed

Time			
Stage	Vol	Rate	Minutes
N2/Mud	0	4	0
Spacer	20	6	3
Scavenger	109	6	18
Tail	80	6	13
Displace	40.1	7	6
Slowdown	10	2.5	4
Total Pump Time			65

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Customer OXY USA, INC.	Job Number 2205544467
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Well WARD A-4		Location (legal) SEC 24-T27S-R34W		Schlumberger Location Perryton, TX		Job Start 2003-Dec-13			
Field		Formation Name/Type		Deviation		Well TVD			
				7.88 in		3,194 ft			
County HASKELL CO		State/Province KANSAS		BHP psi		BHST 120 °F			
				BHCT 100 °F		Pore Press. Gradient psi/ft			
Well Master: 0630543320		API / UWI:		Casing/Liner					
Rig Name		Drilled For Oil & Gas		Service Via		Well TVD			
						3,194 ft			
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe			
Drilling Fluid Type		Max. Density 9.1 lb/gal		Plastic Vi: cp		Perforations/Open Hole			
Service Line Cementing		Job Type Cem Prod Casing		Depth, ft		Grade			
				3197		Thread			
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 4 1/2 HS&M		Top, ft			
						Bottom, ft			
Service Instructions						spf			
CEMENT 4 1/2 PRODUCTION CASING WITH: 20 BBL CW100 185 SKS CLASS C + 3%D79 + 0.2%D46 + 0.25 PPS D29 290 SKS 50/50 POZ CLASS H + 2%D20 + 3%M117 + 5 PPS D42 + 5 PPS D53 + 0.25% D112 + 0.25% D65 + 0.25% D46 DISPLACE WITH 4 GAL L64 + 1 LB OF B69						No. of Shots			
						Total Interval ft			
						Diameter in			
				Treat Down Casing		Displacement 50.1 bbl			
				Tubing Vol. bbl		Packer Type Packer Depth ft			
				Casing Vol. 50.8 bbl		Annular Vol. 130 bbl			
				Open Hole Vol. 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: 949 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type:			
						Shoe Depth: 3187 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: 12/13/2003		Arrived on Location: 2003-Dec-13 14:00		Leave Location: 2003-Dec-13		Collar Type:			
						Collar Depth: 8144 ft			
						Sqz Total Vol: bbl			
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2003-Dec-13	16:41	46	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:41	50	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:41								Pressure Test Lines
2003-Dec-13	16:42	5	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:42	5	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:43	50	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:43	55	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:44	3172	8.46	0.0	0.1	0	0	0	
2003-Dec-13	16:44	2985	8.46	0.0	0.1	0	0	0	
2003-Dec-13	16:45	2943	8.44	0.0	0.1	0	0	0	
2003-Dec-13	16:45	2930	8.44	0.0	0.1	0	0	0	
2003-Dec-13	16:46	1863	8.44	0.0	0.1	0	0	0	
2003-Dec-13	16:46	14	8.44	0.0	0.1	0	0	0	
2003-Dec-13	16:47	14	8.44	0.0	0.1	0	0	0	
2003-Dec-13	16:47	14	8.44	0.0	0.0	0	0	0	
2003-Dec-13	16:47								Start Pumping Wash
2003-Dec-13	16:47	55	8.45	0.0	0.0	0	0	0	
2003-Dec-13	16:48	128	8.42	4.9	0.6	0	0	0	
2003-Dec-13	16:48	92	8.43	3.7	2.6	0	0	0	
2003-Dec-13	16:49	87	8.44	3.7	4.4	0	0	0	
2003-Dec-13	16:49	87	10.34	3.7	6.3	0	0	0	
2003-Dec-13	16:50	114	8.44	3.7	8.1	0	0	0	

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WARD #A-4		Field		Service Date		Customer			Job Number
				03347-Dec-13		OXY USA, INC.			2205544467
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbf/min	bbl	0	0	0	
2003-Dec-13	16:50	114	8.44	3.6	9.9	0	0	0	
2003-Dec-13	16:51	105	8.44	3.7	11.8	0	0	0	
2003-Dec-13	16:51	119	8.60	3.7	13.6	0	0	0	
2003-Dec-13	16:52	119	8.55	3.7	15.5	0	0	0	
2003-Dec-13	16:52	128	8.67	3.6	17.3	0	0	0	
2003-Dec-13	16:53	156	8.61	3.6	19.1	0	0	0	
2003-Dec-13	16:53	165	8.74	4.4	21.3	0	0	0	
2003-Dec-13	16:54	169	9.41	4.0	23.3	0	0	0	
2003-Dec-13	16:54	169	9.59	4.1	24.0	0	0	0	
2003-Dec-13	16:54								Reset Total, Vol = 23.98 bbl
2003-Dec-13	16:54								Start Mixing Lead Slurry
2003-Dec-13	16:54	169	9.69	4.0	0.4	0	0	0	
2003-Dec-13	16:54	169	9.94	4.1	1.4	0	0	0	
2003-Dec-13	16:55	179	10.57	4.1	3.4	0	0	0	
2003-Dec-13	16:55	179	11.60	4.0	5.4	0	0	0	
2003-Dec-13	16:56	169	12.28	4.1	7.4	0	0	0	
2003-Dec-13	16:56	160	12.71	4.3	9.6	0	0	0	
2003-Dec-13	16:57	146	12.77	4.3	11.7	0	0	0	
2003-Dec-13	16:57	114	12.21	4.3	13.9	0	0	0	
2003-Dec-13	16:58	101	11.76	4.4	16.0	0	0	0	
2003-Dec-13	16:58	87	11.31	4.4	18.2	0	0	0	
2003-Dec-13	16:59	82	11.02	4.4	20.4	0	0	0	
2003-Dec-13	16:59	78	11.43	4.4	22.6	0	0	0	
2003-Dec-13	17:00	78	11.80	4.4	24.8	0	0	0	
2003-Dec-13	17:00	119	12.01	4.2	27.0	0	0	0	
2003-Dec-13	17:01	96	12.12	4.3	29.1	0	0	0	
2003-Dec-13	17:01	82	12.18	4.4	31.3	0	0	0	
2003-Dec-13	17:02	82	12.15	4.4	33.5	0	0	0	
2003-Dec-13	17:02	82	12.02	4.4	35.7	0	0	0	
2003-Dec-13	17:03	82	11.93	4.4	38.0	0	0	0	
2003-Dec-13	17:03	78	11.94	4.4	40.2	0	0	0	
2003-Dec-13	17:04	78	11.94	4.4	42.4	0	0	0	
2003-Dec-13	17:04	78	11.95	4.4	44.5	0	0	0	
2003-Dec-13	17:05	78	11.98	4.4	46.7	0	0	0	
2003-Dec-13	17:05	78	11.98	4.4	48.9	0	0	0	
2003-Dec-13	17:06	69	11.93	4.4	51.2	0	0	0	
2003-Dec-13	17:06	82	11.94	4.4	53.4	0	0	0	
2003-Dec-13	17:07	78	11.95	4.4	55.6	0	0	0	
2003-Dec-13	17:07	82	11.91	4.4	57.8	0	0	0	
2003-Dec-13	17:08	82	11.76	4.4	60.1	0	0	0	
2003-Dec-13	17:08	78	11.61	4.4	62.3	0	0	0	
2003-Dec-13	17:09	78	11.54	4.4	64.5	0	0	0	
2003-Dec-13	17:09	78	11.68	4.4	66.7	0	0	0	
2003-Dec-13	17:10	78	11.89	4.4	69.0	0	0	0	
2003-Dec-13	17:10	82	11.98	4.4	71.2	0	0	0	
2003-Dec-13	17:11	82	12.03	4.4	73.4	0	0	0	
2003-Dec-13	17:11	82	12.08	4.4	75.6	0	0	0	
2003-Dec-13	17:12	87	12.14	4.4	77.8	0	0	0	
2003-Dec-13	17:12	82	12.14	4.4	80.1	0	0	0	
2003-Dec-13	17:13	82	12.04	4.4	82.3	0	0	0	
2003-Dec-13	17:13	78	11.95	4.5	84.5	0	0	0	
2003-Dec-13	17:14	82	11.92	4.4	86.7	0	0	0	
2003-Dec-13	17:14	64	11.90	4.5	89.0	0	0	0	
2003-Dec-13	17:15	60	11.76	4.5	91.3	0	0	0	

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Date		Time	Pressure	Density	Rate	Volume	0	0	0	Message
		24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2003-Dec-13	17:15		60	12.62	4.5	93.6	0	0	0	
2003-Dec-13	17:16		69	13.11	4.5	95.5	0	0	0	
2003-Dec-13	17:16									Reset Total, Vol = 95.48 bbl
2003-Dec-13	17:16									Start Mixing Tail Slurry
2003-Dec-13	17:16		69	13.13	4.5	0.1	0	0	0	
2003-Dec-13	17:16		69	13.20	4.5	0.4	0	0	0	
2003-Dec-13	17:16		73	13.66	4.5	2.7	0	0	0	
2003-Dec-13	17:17		151	14.07	5.3	5.1	0	0	0	
2003-Dec-13	17:17		183	14.69	5.1	7.6	0	0	0	
2003-Dec-13	17:18		188	14.99	4.9	10.1	0	0	0	
2003-Dec-13	17:18		165	14.60	5.0	12.6	0	0	0	
2003-Dec-13	17:19		82	14.35	5.4	15.3	0	0	0	
2003-Dec-13	17:19		302	14.20	5.4	18.0	0	0	0	
2003-Dec-13	17:20		169	14.17	5.8	20.8	0	0	0	
2003-Dec-13	17:20		188	14.21	5.8	23.7	0	0	0	
2003-Dec-13	17:21		188	14.24	5.8	26.5	0	0	0	
2003-Dec-13	17:21		211	14.33	5.8	29.4	0	0	0	
2003-Dec-13	17:22		211	14.17	5.7	32.3	0	0	0	
2003-Dec-13	17:22		211	14.18	5.6	35.1	0	0	0	
2003-Dec-13	17:23		192	14.32	5.5	37.9	0	0	0	
2003-Dec-13	17:23		165	13.17	5.6	40.7	0	0	0	
2003-Dec-13	17:24		124	13.27	5.7	43.5	0	0	0	
2003-Dec-13	17:24		133	13.05	5.8	46.4	0	0	0	
2003-Dec-13	17:25		151	12.99	5.9	49.3	0	0	0	
2003-Dec-13	17:25		128	13.98	4.8	51.9	0	0	0	
2003-Dec-13	17:26		160	15.41	4.6	54.3	0	0	0	
2003-Dec-13	17:26		165	14.42	4.8	56.7	0	0	0	
2003-Dec-13	17:27		137	13.56	4.9	59.1	0	0	0	
2003-Dec-13	17:27		133	13.94	4.9	61.6	0	0	0	
2003-Dec-13	17:28		151	14.23	4.9	64.0	0	0	0	
2003-Dec-13	17:28		142	14.63	4.8	66.4	0	0	0	
2003-Dec-13	17:29		160	15.03	4.7	68.8	0	0	0	
2003-Dec-13	17:29		188	15.17	4.7	71.1	0	0	0	
2003-Dec-13	17:30		156	14.14	4.8	73.5	0	0	0	
2003-Dec-13	17:30		128	13.98	4.9	76.0	0	0	0	
2003-Dec-13	17:31		156	15.07	4.8	78.4	0	0	0	
2003-Dec-13	17:31		183	15.20	4.7	80.7	0	0	0	
2003-Dec-13	17:32		179	15.18	4.7	83.1	0	0	0	
2003-Dec-13	17:32		183	15.16	4.8	85.4	0	0	0	
2003-Dec-13	17:33		9	14.98	0.0	86.6	0	0	0	
2003-Dec-13	17:33									Reset Total, Vol = 86.59 bbl
2003-Dec-13	17:33		5	15.02	0.0	0.0	0	0	0	
2003-Dec-13	17:33									Wash Pump and Lines
2003-Dec-13	17:33		0	15.11	0.0	0.0	0	0	0	
2003-Dec-13	17:33		5	15.14	0.0	0.0	0	0	0	
2003-Dec-13	17:34		0	15.14	0.0	0.0	0	0	0	
2003-Dec-13	17:34		0	15.14	0.0	0.0	0	0	0	
2003-Dec-13	17:35		0	15.14	0.0	0.0	0	0	0	
2003-Dec-13	17:35		146	8.89	4.1	1.0	0	0	0	
2003-Dec-13	17:36		151	8.86	4.8	3.2	0	0	0	
2003-Dec-13	17:36		105	8.70	4.0	5.5	0	0	0	
2003-Dec-13	17:37		96	8.60	5.1	7.6	0	0	0	
2003-Dec-13	17:37		14	8.58	0.0	9.6	0	0	0	
2003-Dec-13	17:38		9	8.58	0.0	9.6	0	0	0	

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Well		Field			Service Date		Customer			Job Number
WARD #A-4					03347-Dec-13		OXY USA, INC.			2205544467
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbf/min	bbf	0	0	0		
2003-Dec-13	17:38	5	8.58	0.0	9.6	0	0	0		
2003-Dec-13	17:39	9	8.58	0.0	9.6	0	0	0		
2003-Dec-13	17:39	9	8.58	0.0	0.0	0	0	0		
2003-Dec-13	17:39								Drop Top Plug	
2003-Dec-13	17:39	9	8.58	0.0	0.0	0	0	0		
2003-Dec-13	17:39								Start Displacement	
2003-Dec-13	17:40	69	8.60	0.0	0.0	0	0	0		
2003-Dec-13	17:40	82	8.50	4.5	1.6	0	0	0		
2003-Dec-13	17:41	64	8.51	3.9	3.9	0	0	0		
2003-Dec-13	17:41	197	8.51	4.7	6.3	0	0	0		
2003-Dec-13	17:42	183	8.51	4.7	8.6	0	0	0		
2003-Dec-13	17:42	481	8.51	5.3	11.1	0	0	0		
2003-Dec-13	17:43	201	8.51	5.3	13.8	0	0	0		
2003-Dec-13	17:43	197	8.51	5.2	16.6	0	0	0		
2003-Dec-13	17:44	572	8.51	5.4	19.2	0	0	0		
2003-Dec-13	17:44	453	8.50	5.4	21.9	0	0	0		
2003-Dec-13	17:45	439	8.50	5.4	24.6	0	0	0		
2003-Dec-13	17:45	279	8.50	5.5	27.3	0	0	0		
2003-Dec-13	17:46	407	8.50	5.5	30.1	0	0	0		
2003-Dec-13	17:46	453	8.50	5.4	32.8	0	0	0		
2003-Dec-13	17:47	504	8.50	5.4	35.5	0	0	0		
2003-Dec-13	17:47	961	8.50	5.5	38.3	0	0	0		
2003-Dec-13	17:48	540	8.50	5.5	41.0	0	0	0		
2003-Dec-13	17:48	618	8.50	5.5	43.8	0	0	0		
2003-Dec-13	17:49	925	8.50	5.5	46.6	0	0	0		
2003-Dec-13	17:49	938	8.50	5.5	49.4	0	0	0		
2003-Dec-13	17:50	636	8.50	5.7	52.2	0	0	0		
2003-Dec-13	17:50	494	8.50	0.3	54.7	0	0	0		
2003-Dec-13	17:51	806	8.50	1.9	55.5	0	0	0		
2003-Dec-13	17:51	801	8.50	1.9	56.4	0	0	0		
2003-Dec-13	17:52	815	8.50	1.9	57.4	0	0	0		
2003-Dec-13	17:52	847	8.50	1.8	58.3	0	0	0		
2003-Dec-13	17:53	861	8.50	1.9	59.2	0	0	0		
2003-Dec-13	17:53	925	8.50	1.8	60.1	0	0	0		
2003-Dec-13	17:54	920	8.50	1.8	61.0	0	0	0		
2003-Dec-13	17:54	897	8.50	1.8	61.9	0	0	0		
2003-Dec-13	17:55	1300	8.50	1.6	62.8	0	0	0		
2003-Dec-13	17:55	1428	8.50	0.0	62.8	0	0	0		
2003-Dec-13	17:56								Reset Total, Vol = 50 bbl	
2003-Dec-13	17:56	1428	8.50	0.0	62.8	0	0	0		
2003-Dec-13	17:56	1428	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:56	1428	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:57	1424	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:57	1163	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:58								Bump Plug / Holding	
2003-Dec-13	17:58	50	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:58	5	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:58	5	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:59	0	8.50	0.0	0.0	0	0	0		
2003-Dec-13	17:59	32	8.47	0.0	0.0	0	0	0		
2003-Dec-13	18:00	37	8.48	0.0	0.0	0	0	0		
2003-Dec-13	18:00	37	8.48	0.0	0.0	0	0	0		
2003-Dec-13	18:01	41	8.48	0.0	0.0	0	0	0		

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Well		Field			Service Date		Customer		Job Number		
WARD #A-4					03347-Dec-13		OXY USA, INC.		2205544467		
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message		
	24 hr clock	psi	lb/gal	bbf/min	bbf	0	0	0			
Post Job Summary											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2			
4			5		189		20				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average	Bump Plug to	Breakdown	Volume			Density			
950		200	1430		bbl			8.43 lb/gal			
Avg. N2 Percent	Designed Slurry Volume		Displacement		Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?		Volume			
%	189 bbl		50 bbl		°F	<input type="checkbox"/> Washed Thru Perfs To		25 bbl			
Customer or Authorized Representative			Schlumberger Supervisor								
Fillpot, Greg			Ousley, John					<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

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Schlumberger

Date	12/11/2003
Company	OXY
Job Number	2205544466
Well Name	Ward
Well Number	A-4
County	Haskell
State	KS

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Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	894	
Shoe Length	43	
Insert Depth	851	
Hole Size	12 1/4	
Hole Depth	895	

1st System	
260 sacks	35/65 POZ C
2.17 yield	D20,S1,D29
12.2 weight	
17.7 water	110
cubic ft.	564
height	1367
bbls	100

0.5pp cellophane flakes

123

Pipe Volume	57
Annular Volume	66
Total Cement	136
Total Water	186

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

2nd System	
150 sacks	ClassC
1.34 yield	S1,D29
14.8 weight	
6.3 water	23
cubic ft.	201
height	487
bbls	35.8

Casing lift 367
Cement lift 223

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

Test 2000 psi

Mud

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10 Spacer

100 Lead 12.2

36 Tail 14.8

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

54.2 Displacement

1000 Maximum Pressure

Pump time @ 6 BPM

32 MIN

Cementing Service Report

Customer OXY USA, INC.						Job Number 2205544466				
Well WARD A-4			Location (legal) SEC 24-T27S-R34W			Schlumberger Location Perryton, TX			Job Start 2003-Dec-11	
Field		Formation Name/Type			Deviation		Bit Size	Well MD	Well TVD	
							12.3 in	895 ft	895 ft	
County HASKELL CO		State/Province KANSAS			BHP 1000 psi	BHST 90 °F	BHCT 90 °F	Pore Press. Gradient psi/ft		
Well Master: 0630543320		API / UWI:			Casing/Liner					
Rig Name		Drilled For		Service Via		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
		Oil & Gas		Land		894	8.625	24	K55	8RD
Offshore Zone		Well Class		Well Type		Tubing/Drill Pipe				
		New		Development						
Drilling Fluid Type		Max. Density		Plastic Viscosity		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
		lb/gal		cp						
Service Line		Job Type			Perforations/Open Hole					
Cementing		Cem Surface Casing								
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Wellhead Connection		Top, ft	Bottom, ft	api	No. of Shots	Total Interval
1000 psi		psi		8 5/8 HS&M						ft
Service Instructions						Diameter				
CEMENT 8 5/8 IN SURFACE CASING WITH: 260 SKS 35/65 POZ C + 6% D20 + 2% S1 + 0.5PPS D29 150 SKS CLASS C + 2% S001 + 0.25 PPS D29						Treat Down	Displacement	Packer Type	Packer Depth	
						Casing	54.2 bbl	None	0 ft	
						Tubing Vol.	Casing Vol.	Annular Vol.	Open Hole Vol	
						bbl	57 bbl	66 bbl	123 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: 225 psi		Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>			Shoe Type: Guide	Squeeze Type	
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 894 ft	Tool Type:			
Cement Head Type: Single		Job Scheduled For: 2003-Dec-11 9:00			Arrived on Location: 2003-Dec-11 14:00		Stage Tool Type:	Tool Depth: ft		
							Stage Tool Depth: ft	Tail Pipe Size: in		
							Collar Type: Auto-Fill	Tail Pipe Depth: ft		
							Collar Depth: 851 ft	Sqz Total Vol: bbl		
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		
2003-Dec-11	12:09	9	0.0	1.43	0.0	0	0	0	KCC	
2003-Dec-11	12:09	41	3.0	8.44	0.0	0	0	0	APR 05 2004	
2003-Dec-11	12:10	-9	0.0	8.44	0.0	0	0	0	CONFIDENTIAL	
2003-Dec-11	12:10	-14	0.0	8.44	0.0	0	0	0		
2003-Dec-11	12:10								Start Job	
2003-Dec-11	12:10	-9	0.0	8.44	0.0	0	0	0		
2003-Dec-11	12:11	82	2.0	8.46	0.0	0	0	0		
2003-Dec-11	12:11								Pressure Test Lines	
2003-Dec-11	12:11	2115	0.0	8.46	0.0	0	0	0		
2003-Dec-11	12:11	2019	0.0	8.45	0.0	0	0	0		
2003-Dec-11	12:12	0	0.0	8.45	0.0	0	0	0		
2003-Dec-11	12:12								Reset Total, Vol = 0.00 bbl	
2003-Dec-11	12:12	37	0.0	8.45	0.0	0	0	0		
2003-Dec-11	12:12	37	0.0	8.45	0.0	0	0	0		
2003-Dec-11	12:12								Start Pumping Spacer	
2003-Dec-11	12:12	41	3.4	8.45	1.3	0	0	0		
2003-Dec-11	12:13	110	4.9	8.45	3.5	0	0	0		
2003-Dec-11	12:13	110	4.9	8.45	5.9	0	0	0		
2003-Dec-11	12:14	105	4.9	8.45	8.4	0	0	0		
2003-Dec-11	12:14	110	4.9	8.49	10.8	0	0	0		
2003-Dec-11	12:15	114	4.9	8.74	13.3	0	0	0		
2003-Dec-11	12:15	119	4.9	9.11	15.1	0	0	0		

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Well		Field			Service Date		Customer		Job Number	
WARD #A-4					03345-Dec-11		OXY USA, INC.		220554486	
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		
2003-Dec-11	12:15								End Spacer	
2003-Dec-11	12:15	119	4.9	9.21	15.4	0	0	0		
2003-Dec-11	12:15								Reset Total, Vol = 15.40 bbl	
2003-Dec-11	12:15	119	4.9	9.28	9.2	0	0	0		
2003-Dec-11	12:15								Start Mixing Lead Slurry	
2003-Dec-11	12:15	119	4.9	9.34	0.3	0	0	0		
2003-Dec-11	12:16	128	4.9	10.42	2.8	0	0	0		
2003-Dec-11	12:16	137	5.0	11.73	5.3	0	0	0		
2003-Dec-11	12:17	142	5.0	12.43	7.9	0	0	0		
2003-Dec-11	12:17	133	5.0	12.74	10.3	0	0	0		
2003-Dec-11	12:18	124	5.0	12.82	12.9	0	0	0		
2003-Dec-11	12:18	114	5.1	12.85	15.4	0	0	0		
2003-Dec-11	12:19	119	5.1	12.97	17.9	0	0	0		
2003-Dec-11	12:19	124	5.1	12.03	20.5	0	0	0		
2003-Dec-11	12:20	124	5.1	11.94	23.0	0	0	0		
2003-Dec-11	12:20	119	5.1	12.24	25.6	0	0	0		
2003-Dec-11	12:21	119	5.1	12.29	28.2	0	0	0		
2003-Dec-11	12:21	119	5.1	12.46	30.7	0	0	0		
2003-Dec-11	12:22	119	5.1	12.74	33.3	0	0	0		
2003-Dec-11	12:22	119	5.1	12.75	35.9	0	0	0		
2003-Dec-11	12:23	119	5.2	12.51	38.4	0	0	0		
2003-Dec-11	12:23	119	5.2	12.37	41.0	0	0	0		
2003-Dec-11	12:24	114	5.2	12.24	43.6	0	0	0		
2003-Dec-11	12:24	114	5.2	12.30	46.2	0	0	0		
2003-Dec-11	12:25	114	5.2	12.30	48.8	0	0	0		
2003-Dec-11	12:25	114	5.2	12.42	51.4	0	0	0		
2003-Dec-11	12:26	110	5.2	12.20	54.0	0	0	0		
2003-Dec-11	12:26	110	5.3	12.61	56.6	0	0	0		
2003-Dec-11	12:27	119	5.3	12.85	59.3	0	0	0		
2003-Dec-11	12:27	110	5.2	12.72	61.9	0	0	0		
2003-Dec-11	12:28	101	5.2	12.55	64.5	0	0	0		
2003-Dec-11	12:28	73	4.5	12.67	66.9	0	0	0		
2003-Dec-11	12:29	69	4.5	12.52	69.2	0	0	0		
2003-Dec-11	12:29	69	4.4	12.52	71.4	0	0	0		
2003-Dec-11	12:30	69	4.4	12.60	73.6	0	0	0		
2003-Dec-11	12:30	82	4.7	12.71	75.9	0	0	0		
2003-Dec-11	12:31	87	4.9	12.87	78.3	0	0	0		
2003-Dec-11	12:31	96	5.1	12.66	80.8	0	0	0		
2003-Dec-11	12:32	96	5.1	12.71	83.4	0	0	0		
2003-Dec-11	12:32	101	5.1	12.73	85.9	0	0	0		
2003-Dec-11	12:33	105	5.1	12.77	88.4	0	0	0		
2003-Dec-11	12:33	101	5.1	12.80	91.0	0	0	0		
2003-Dec-11	12:34	110	5.2	12.75	93.6	0	0	0		
2003-Dec-11	12:34	110	5.2	12.67	96.2	0	0	0		
2003-Dec-11	12:35	119	5.3	12.63	98.8	0	0	0		
2003-Dec-11	12:35	110	5.3	12.53	101.5	0	0	0		
2003-Dec-11	12:36	114	5.3	12.23	104.2	0	0	0		
2003-Dec-11	12:36	105	5.3	12.28	104.6	0	0	0		
2003-Dec-11	12:36								End Lead Slurry	
2003-Dec-11	12:36	101	5.3	12.24	104.8	0	0	0		
2003-Dec-11	12:36								Reset Total, Vol = 104.78 bbl	
2003-Dec-11	12:36								Start Mixing Tail Slurry	
2003-Dec-11	12:36	101	5.3	12.17	0.2	0	0	0		
2003-Dec-11	12:36	101	5.3	12.25	2.0	0	0	0		

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Well		Field			Service Date		Customer		Job Number
WARD #A-4					03345-Dec-11		OXY USA, INC.		2205544466
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbt/min	lb/gal	bbt	0	0	0	
2003-Dec-11	12:37	92	4.9	13.36	4.5	0	0	0	
2003-Dec-11	12:37	69	3.8	14.30	6.7	0	0	0	
2003-Dec-11	12:38	50	3.3	13.69	8.5	0	0	0	
2003-Dec-11	12:38	50	3.2	14.58	10.1	0	0	0	
2003-Dec-11	12:39	50	0.0	15.24	10.8	0	0	0	
2003-Dec-11	12:39	55	3.0	15.49	11.3	0	0	0	
2003-Dec-11	12:40	101	4.5	15.30	13.1	0	0	0	
2003-Dec-11	12:40	169	5.3	15.33	15.6	0	0	0	
2003-Dec-11	12:41	156	5.3	15.29	18.2	0	0	0	
2003-Dec-11	12:41	165	5.3	15.28	20.8	0	0	0	
2003-Dec-11	12:42	151	5.3	15.27	23.5	0	0	0	
2003-Dec-11	12:42	165	5.2	15.29	26.1	0	0	0	
2003-Dec-11	12:43	165	5.3	15.28	28.7	0	0	0	
2003-Dec-11	12:43	151	5.3	15.27	31.4	0	0	0	
2003-Dec-11	12:44	142	5.4	15.27	34.0	0	0	0	
2003-Dec-11	12:44	137	5.4	15.28	36.7	0	0	0	
2003-Dec-11	12:45	179	5.3	15.10	39.4	0	0	0	
2003-Dec-11	12:45	146	5.3	15.08	42.1	0	0	0	
2003-Dec-11	12:46								End Tail Slurry
2003-Dec-11	12:46	-14	0.0	15.07	42.9	0	0	0	
2003-Dec-11	12:46	-14	0.0	15.07	42.9	0	0	0	
2003-Dec-11	12:46								Reset Total, Vol = 42.92 bbl
2003-Dec-11	12:46	-18	0.0	15.06	0.0	0	0	0	
2003-Dec-11	12:46	-14	0.0	9.86	0.0	0	0	0	
2003-Dec-11	12:47	-18	0.0	9.57	0.0	0	0	0	
2003-Dec-11	12:47	-18	0.0	9.57	0.0	0	0	0	
2003-Dec-11	12:48	-18	0.0	9.56	0.0	0	0	0	
2003-Dec-11	12:48	-18	0.0	9.54	0.0	0	0	0	
2003-Dec-11	12:49	-14	0.0	9.59	0.0	0	0	0	
2003-Dec-11	12:49	-18	0.0	9.57	0.0	0	0	0	
2003-Dec-11	12:50	-14	0.0	9.56	0.0	0	0	0	
2003-Dec-11	12:50	-14	0.0	9.61	0.0	0	0	0	
2003-Dec-11	12:51	-9	0.0	9.57	0.0	0	0	0	
2003-Dec-11	12:51	-18	0.0	9.57	0.0	0	0	0	
2003-Dec-11	12:52	-14	0.0	9.54	0.0	0	0	0	
2003-Dec-11	12:52	-14	0.0	9.40	0.0	0	0	0	
2003-Dec-11	12:53								Reset Total, Vol = 0.00 bbl
2003-Dec-11	12:53	-14	0.0	9.53	0.0	0	0	0	
2003-Dec-11	12:53	50	0.0	9.54	0.0	0	0	0	
2003-Dec-11	12:53	46	3.0	9.32	0.3	0	0	0	
2003-Dec-11	12:53								Drop Top Plug
2003-Dec-11	12:53								Start Displacement
2003-Dec-11	12:53	46	3.0	9.31	0.3	0	0	0	
2003-Dec-11	12:53	73	5.4	9.25	1.7	0	0	0	
2003-Dec-11	12:54	87	5.5	9.24	4.5	0	0	0	
2003-Dec-11	12:54	60	5.5	8.47	7.2	0	0	0	
2003-Dec-11	12:55	50	5.5	8.47	10.0	0	0	0	
2003-Dec-11	12:55	64	5.5	8.63	12.7	0	0	0	
2003-Dec-11	12:56	64	5.5	8.51	15.5	0	0	0	
2003-Dec-11	12:56	64	5.6	8.46	18.3	0	0	0	
2003-Dec-11	12:57	87	5.7	8.48	21.1	0	0	0	
2003-Dec-11	12:57	110	5.8	8.49	23.9	0	0	0	
2003-Dec-11	12:58	128	5.8	8.45	26.8	0	0	0	
2003-Dec-11	12:58	142	5.8	8.45	29.8	0	0	0	

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Well		Field			Service Date		Customer		Job Number
WARD #A-4					09345-Dec-11		OXY USA, INC.		2205544466
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbf/min	lb/gal	bbf	0	0	0	
2003-Dec-11	12:59	174	5.9	8.46	32.7	0	0	0	
2003-Dec-11	12:59	197	6.0	8.45	35.6	0	0	0	
2003-Dec-11	13:00	215	6.0	8.45	38.6	0	0	0	
2003-Dec-11	13:00	243	5.9	8.45	41.6	0	0	0	
2003-Dec-11	13:01	197	3.7	8.45	44.0	0	0	0	
2003-Dec-11	13:01	188	1.6	8.45	45.6	0	0	0	
2003-Dec-11	13:02	188	1.6	8.45	46.4	0	0	0	
2003-Dec-11	13:02	192	1.6	8.45	47.2	0	0	0	
2003-Dec-11	13:03	220	1.7	8.45	48.0	0	0	0	
2003-Dec-11	13:03	206	1.7	8.45	48.9	0	0	0	
2003-Dec-11	13:04	201	1.7	8.45	49.7	0	0	0	
2003-Dec-11	13:04	215	1.5	8.45	50.6	0	0	0	
2003-Dec-11	13:05	220	1.6	8.45	51.3	0	0	0	
2003-Dec-11	13:05	233	1.7	8.45	52.1	0	0	0	
2003-Dec-11	13:06	247	1.7	8.45	52.9	0	0	0	
2003-Dec-11	13:06								Bump Top Plug
2003-Dec-11	13:06	375	0.0	8.45	53.3	0	0	0	
2003-Dec-11	13:06	375	0.0	8.45	53.3	0	0	0	
2003-Dec-11	13:06								End Displacement
2003-Dec-11	13:06	375	0.0	8.45	53.3	0	0	0	
2003-Dec-11	13:07	375	0.0	8.45	53.3	0	0	0	
2003-Dec-11	13:07								End Job
2003-Dec-11	13:07	-14	0.0	8.45	53.3	0	0	0	
2003-Dec-11	13:07	-9	0.0	8.45	53.3	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	0	0	5.5	137	0	15			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
		375			Volume	lb/gal			
Avg. N2 Percent	Designated Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	50	bbf	
%	137 bbl	54.2 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	
Guejardo, Karla			Ahrends, Timothy						

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