

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

September 1999

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WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: Southern Star
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling LP
License: 33375
Wellsite Geologist: NA

API No. 15 - 067-21593-00-00
County: Grant
SE - SE - NW - NW Sec 31 Twp. 28 S. R. 35W
1250 feet from S (N) (circle one) Line of Section
1250 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Reed D Well #: 4

Field Name: Panoma Council Grove
Producing Formation: Council Grove

Elevation: Ground: 3061 Kelly Bushing: 3067
Total Depth: 3120 Plug Back Total Depth: 3081

Amount of Surface Pipe Set and Cemented at 744 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.

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

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. To Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
01/02/05 01/04/05 02/09/05
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

Drilling Fluid Management Plan ACT I WITH
(Data must be collected from the Reserve Pit) 4-4-07
Chloride content 12000 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.: _____

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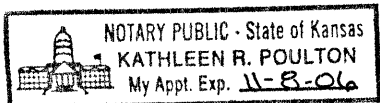
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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 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 04/29/05
Subscribed and sworn to before me this 29th day of April
20 05
Notary Public: Kathleen R. Poulton
Date Commission Expires: November 8, 2006

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



X

Operator Name: OXY USA Inc. Lease Name: Reed D Well #: 4
 Sec. 31 Twp. 28 S. R. 35W East West County: Grant

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

Drill Stem Tests Taken <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	2571 490
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2595 466
List All E. Logs Run:	Tracer Scan Perforation Record	Winfield	2637 424
Neutron	CBL	Towanda	2698 363
		Ft. Riley	2753 308
		Florence	2808 253
		Matfield	2825 236
		Wreford	2845 216
		Council Grove	2871 190

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	744	C	215	35/65 Poz + Additives
					C	150	Class C + Additives
Production	7 7/8	4 1/2	10.5	3119	C	195	Class C + Additives
					H	190	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	2954-2940, 2937-2931, 2924-2919, 2914-2900,	4500 gls FE Acid	
	2897-2890, 2886-2875	15345 gls WF125, 6860# 100 mesh sand	
		18283 gls WF125 75%N2, 140,449# 16/30 Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	2967		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	Producing Method			
03/07/05	<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	Water Bbls	Gas-Oil Ratio Gravity
		89	16	

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____
 (if vented, Submit ACO-18) Other (Specify) _____

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled _____
 Other (Specify) _____

Production Interval _____

Customer OXY USA, INC						Job Number 2205547195		
Well REED 'D' 4			Location (legal)			Schlumberger Location Perryton, TX		Job Start 2005-Jan-04
Field		Formation Name/Type		Deviation	Bit Size 7.88 in	Well MD 3,120 ft	Well TVD 3,120 ft	
County GRANT		State/Province KANSAS		BHP psi	BHST 111 °F	BHCT °F	Pore Press. Gradient psi/ft	
Well Master: 0630652860		API / UWI:		Casing/Liner				
Rig Name	Drilled For Oil & Gas	Service Via Land		Depth, ft 3100	Size, in 4.5	Weight, lb/ft 10.5	Grade	Thread
Offshore Zone	Well Class New	Well Type Development		Tubing/Drill Pipe				
Drilling Fluid Type		Max. Density lb/gal	Plastic Vi: 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 PROD 4 1/2" CASING: 20 BBLs CW100 195 SKS CLASS C + 3% D079 + 0.2 % D046 + 0.25 PPS D029 190 SKS 50/50 POZ/CLASS H + 2%D20 + 3%M117 + 5 PPSD42 + 5 PPS D53 + 0.25 %D112 + 0.25 %D65 + 0.25%D46 DISPLACE W/ TREATED WATER				Treat Down Casing	Displacement 49.1 bbl	Packer Type	Packer Depth ft	
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Tubing Vol. 0 bbl	Casing Vol. 50 bbl	Annular Vol. 127 bbl	OpenHole Vol. 177 bbl		Casing Tools	
Lift Pressure: 450 psi		Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Type:		Squeeze Job		
No. Centralizers:	Top Plugs:	Bottom Plugs:		Shoe Depth: ft	Tool Type:	Squeeze Type		
Cement Head Type:			Stage Tool Type:	Tool Depth: ft	Stage Tool Depth: ft			
Job Scheduled For:	Arrived on Location: 2005-Jan-04 13:47	Leave Location: 2005-Jan-04 23:50		Collar Type:	Tail Pipe Size: in	Collar Depth: ft		
Collar Depth: ft	Sqz Total Vol: bbl	Message						
Date	Time	Annulus psi	Density lb/gal	Rate bbl/min	Volume bbl	0	0	0
2005-Jan-04	20:51	0	8.35	0.0	0.0	0	0	0
2005-Jan-04	20:51					0	0	0
2005-Jan-04	20:51	5	8.35	0.0	0.0	0	0	0
2005-Jan-04	20:51	5	8.35	0.0	0.0	0	0	0
2005-Jan-04	20:51					0	0	0
2005-Jan-04	20:51	0	8.35	0.0	0.0	0	0	0
2005-Jan-04	20:51					0	0	0
2005-Jan-04	20:52	5	8.36	0.0	0.0	0	0	0
2005-Jan-04	20:53	5	8.36	0.0	0.0	0	0	0
2005-Jan-04	20:54	5	8.36	0.0	0.0	0	0	0
2005-Jan-04	20:55	5	8.36	0.0	0.0	0	0	0
2005-Jan-04	20:56	5	8.35	4.2	1.5	0	0	0
2005-Jan-04	20:57	0	8.38	4.4	6.0	0	0	0
2005-Jan-04	20:58	5	8.37	4.4	10.4	0	0	0
2005-Jan-04	20:59	5	8.37	4.4	14.8	0	0	0
2005-Jan-04	21:00	0	8.37	4.3	19.1	0	0	0
2005-Jan-04	21:00	5	8.37	4.2	22.0	0	0	0
2005-Jan-04	21:00					0	0	0
2005-Jan-04	21:00	0	8.48	4.2	22.2	0	0	0
2005-Jan-04	21:00					0	0	0
2005-Jan-04	21:00	0	8.61	4.2	22.4	0	0	0

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Well		Field				Service Date		Customer			Job Number
REED 'D' #4						054-Jan-04		OXY USA, INC.			2205547195
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message		
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0			
2005-Jan-04	21:00								Reset Total, Vol = 22.39 bbl		
2005-Jan-04	21:01	0	9.60	4.2	1.0	0	0	0	KCC APR 29 2005		
2005-Jan-04	21:02	5	10.82	4.5	5.1	0	0	0			
2005-Jan-04	21:03	0	10.86	4.6	9.6	0	0	0			
2005-Jan-04	21:04	5	11.63	4.7	14.3	0	0	0	CONFIDENTIAL		
2005-Jan-04	21:05	5	11.37	4.9	19.2	0	0	0			
2005-Jan-04	21:06	5	11.34	5.0	24.1	0	0	0			
2005-Jan-04	21:07	5	11.34	4.8	29.0	0	0	0			
2005-Jan-04	21:08	9	11.60	5.1	33.9	0	0	0			
2005-Jan-04	21:09	5	11.52	5.1	39.0	0	0	0			
2005-Jan-04	21:10	5	11.26	5.2	44.2	0	0	0			
2005-Jan-04	21:11	5	11.64	3.5	48.9	0	0	0			
2005-Jan-04	21:12	5	11.40	5.0	53.5	0	0	0			
2005-Jan-04	21:13	5	11.12	5.4	58.9	0	0	0			
2005-Jan-04	21:14	5	11.61	5.4	64.2	0	0	0			
2005-Jan-04	21:15	5	11.56	5.4	69.6	0	0	0			
2005-Jan-04	21:16	0	11.44	5.4	75.0	0	0	0			
2005-Jan-04	21:17	5	11.32	5.4	80.3	0	0	0			
2005-Jan-04	21:18	0	11.27	5.4	85.7	0	0	0			
2005-Jan-04	21:19	0	11.46	5.4	91.1	0	0	0			
2005-Jan-04	21:20	0	11.66	5.4	96.5	0	0	0			
2005-Jan-04	21:21	0	12.11	5.4	101.8	0	0	0			
2005-Jan-04	21:21	0	12.31	5.4	103.4	0	0	0			
2005-Jan-04	21:21								End Lead Slurry		
2005-Jan-04	21:21								Start Mixing Tail Slurry		
2005-Jan-04	21:21	0	12.33	5.4	103.7	0	0	0			
2005-Jan-04	21:21								Reset Total, Vol = 103.88 bbl		
2005-Jan-04	21:21	0	12.28	5.4	103.9	0	0	0			
2005-Jan-04	21:22	5	10.94	5.4	3.3	0	0	0			
2005-Jan-04	21:23	0	13.42	5.4	8.7	0	0	0			
2005-Jan-04	21:24	0	14.11	5.4	14.0	0	0	0			
2005-Jan-04	21:25	5	14.02	5.4	19.5	0	0	0			
2005-Jan-04	21:26	0	13.84	5.4	21.7	0	0	0			
2005-Jan-04	21:27	5	14.02	5.3	27.1	0	0	0			
2005-Jan-04	21:28	5	13.62	5.4	32.5	0	0	0			
2005-Jan-04	21:29	5	13.92	5.3	37.8	0	0	0			
2005-Jan-04	21:30	0	13.85	5.4	43.2	0	0	0			
2005-Jan-04	21:31	0	13.96	5.3	48.6	0	0	0			
2005-Jan-04	21:32	5	13.60	5.3	53.9	0	0	0			
2005-Jan-04	21:32								End Tail Slurry		
2005-Jan-04	21:32	5	13.43	0.0	57.7	0	0	0			
2005-Jan-04	21:33	5	13.58	0.0	57.7	0	0	0			
2005-Jan-04	21:33								Reset Total, Vol = 57.73 bbl		
2005-Jan-04	21:33	9	11.18	0.0	0.0	0	0	0			
2005-Jan-04	21:33								Drop Top Plug		
2005-Jan-04	21:33								Start Displacement		
2005-Jan-04	21:39	5	8.44	0.0	0.0	0	0	0			
2005-Jan-04	21:39								Reset Total, Vol = 0.00 bbl		
2005-Jan-04	21:39	5	8.41	0.0	0.0	0	0	0			
2005-Jan-04	21:40	5	8.37	0.0	0.5	0	0	0			
2005-Jan-04	21:41	5	8.38	0.3	1.3	0	0	0			
2005-Jan-04	21:42	0	8.38	0.3	1.6	0	0	0			
2005-Jan-04	21:43	5	8.38	0.3	1.9	0	0	0			

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Well		Field		Service Date		Customer		Job Number	
REED 'D' #4				054-Jan-04		OXY USA, INC.		2205647195	
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2005-Jan-04	21:44	0	8.38	0.3	2.1	0	0	0	KCC APR 29 2005 CONFIDENTIAL
2005-Jan-04	21:45	5	8.38	0.3	2.4	0	0	0	
2005-Jan-04	21:46	5	8.38	0.3	2.7	0	0	0	
2005-Jan-04	21:47	5	8.38	0.3	3.0	0	0	0	
2005-Jan-04	21:48	0	8.35	2.0	3.6	0	0	0	
2005-Jan-04	21:49	5	8.35	3.3	5.9	0	0	0	
2005-Jan-04	21:50	0	8.37	3.0	8.9	0	0	0	
2005-Jan-04	21:51	0	8.37	3.1	12.0	0	0	0	
2005-Jan-04	21:52	5	8.37	3.3	15.1	0	0	0	
2005-Jan-04	21:53	5	8.37	3.5	18.6	0	0	0	
2005-Jan-04	21:54	5	8.37	3.5	22.1	0	0	0	
2005-Jan-04	21:55	0	8.37	3.8	25.7	0	0	0	
2005-Jan-04	21:56	5	8.37	3.7	29.4	0	0	0	
2005-Jan-04	21:57	0	8.37	2.3	33.0	0	0	0	
2005-Jan-04	21:58	5	8.37	2.3	35.2	0	0	0	
2005-Jan-04	21:59	5	8.37	2.2	37.5	0	0	0	
2005-Jan-04	22:00	5	8.37	2.2	39.7	0	0	0	
2005-Jan-04	22:01	0	8.37	2.2	41.9	0	0	0	
2005-Jan-04	22:02	5	8.37	0.0	43.1	0	0	0	
2005-Jan-04	22:03	5	8.37	0.0	43.4	0	0	0	
2005-Jan-04	22:04								Reset Total, Vol = 43.45 bbl
2005-Jan-04	22:04	5	8.37	0.0	43.4	0	0	0	
2005-Jan-04	22:04	5	8.37	0.0	0.0	0	0	0	
2005-Jan-04	22:05	5	8.37	0.0	0.0	0	0	0	
2005-Jan-04	22:06	5	8.37	0.0	0.0	0	0	0	
2005-Jan-04	22:07	0	8.37	0.0	0.0	0	0	0	
2005-Jan-04	22:07								Bump Top Plug
2005-Jan-04	22:07								End Displacement = 49.5 bbl
2005-Jan-04	22:07	0	8.37	0.0	0.0	0	0	0	
2005-Jan-04	22:07								End Job

Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4.5			5.5	167	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
900		150	600		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	5	bbl	
%	167 bbl	49.1 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	
WYLIE, CAL			Tan, Naveen						

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Schlumberger

Date	1/4/2005
Company	Oxy USA Inc.
Job Number	2205547195
Well Name	Reed D - 4
Well Number	D-4
County	Grant
State	KS

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	3129	0
Shoe Length	42.2	
Insert Depth	3086.8	
Hole Size	7 7/8	
Hole Depth	3120	

Lead	
195 sacks	Class C
3.3 yield	D79,D46,D29
11	
20.3	94.4
cubic ft.	644
height	2825
bbls	115

Pipe Volume	50
177 Annular Volume	127
Total Cement	167
Total Water	176

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

Tail	
190 sacks	50/50 POZ
1.55 yield	D46,D42,M117,D20,
13.8	D65,D112,D53
7.1	32
cubic ft.	295
height	1293
bbls	52.5

Casing lift 2066
Cement lift 810

KANSAS CORPORATION OCCUPATION
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WICHITA, KS

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

Wiles & bonds

Test 2000 psi

Mud

20 Spacer CW100

115 Lead

52 Tail

49.1 Displacement
With L64 & B69
2000 Maximum Pressure

4th System	
sacks	
yield	
	0
cubic ft.	0
height	0

Pump time @ 4 BPM

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Customer OXY USA, INC.		Job Number 2205547194	
Well REED 'D' 4		Location (legal) Schlumberger Location Perryton, TX	
Field		Job Start 2005-Jan-03	
Formation Name/Type		Well MD 745 ft	
County GRANT		Well TVD 745 ft	
State/Province KANSAS		BHP psi	
Well Master: 0630652860		BHST 88 °F	
API / UWI:		BHCT °F	
Rig Name		Pore Press. Gradient psi/ft	
Drilled For Oil & Gas		Service Via Land	
Well Class New		Well Type Development	
Offshore Zone		Casing/Liner	
Drilling Fluid Type		Depth, ft	
Max. Density lb/gal		Size, in	
Plastic Viscosity cp		Weight, lb/ft	
Service Line Cementing		Grade	
Job Type Cem Surface Casing		Thread	
Max. Allowed Tubing Pressure psi		Perforations/Open Hole	
Max. Allowed Ann. Pressure psi		Top, ft	
Well/Head Connection 8 5/8" H&SM		Bottom, ft	
Service Instructions CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 215 SK 35:65 POZ:CLASS C + 6% D020 + 2% S001 + 0.5 pps D029 150 SK CLASS C + 2% S001 + 0.25 pps D029		spf	
		No. of Shots	
		Total Interval ft	
		Diameter in	
		Packer Depth ft	
Treat Down Casing		Displacement 44.9 bbl	
Tubing Vol. bbl		Packer Type	
Casing Vol. 48 bbl		Annular Vol. 55 bbl	
Open Hole Vol. 109 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	
Lift Pressure: 190 psi		Casing Tools	
Pipe Rotated <input type="checkbox"/>		Shoe Type: Guide	
Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: 748.3 ft	
No. Centralizers: Top Plugs: 1		Squeeze Job	
Bottom Plugs:		Squeeze Type	
Cement Head Type: Single		Tool Type:	
Job Scheduled For: Arrived on Location: 2005-Jan-02 23:00		Stage Tool Type:	
Leave Location: 2005-Jan-03 5:16		Stage Tool Depth: ft	
		Tool Depth: ft	
		Collar Type: Auto-Fill	
		Collar Depth: 705.07 ft	
		Tail Pipe Size: in	
		Tail Pipe Depth: ft	
		Sqz Total Vol: bbl	

Date	Time	Treating Pressure psi	Pump Rate bbl/min	Pump Vol bbl	CMT DENS lb/gal	CS Flowmeter bbl/min	CS Flowmeter Stage bbl	CS Flowmeter Total bbl	Message
2005-Jan-03	3:21	-5	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:21								Start Job
2005-Jan-03	3:21	0	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:21								Pressure Test Lines
2005-Jan-03	3:21	0	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:21								Start Pumping Spacer
2005-Jan-03	3:21	-5	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:21	0	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:22	-5	0.0	0.0	8.40	0.0	0.0	0.0	
2005-Jan-03	3:22	0	0.0	0.0	8.37	0.0	0.0	0.0	
2005-Jan-03	3:23	23	0.0	0.0	8.37	0.1	0.3	0.3	
2005-Jan-03	3:23	46	0.0	0.1	8.37	0.2	0.4	0.4	
2005-Jan-03	3:24	96	0.2	0.1	8.37	0.2	0.5	0.5	
2005-Jan-03	3:24	2110	0.0	0.2	8.37	0.0	0.5	0.5	
2005-Jan-03	3:25	5	0.0	0.2	8.37	0.0	0.5	0.5	
2005-Jan-03	3:25	50	3.6	0.6	8.36	4.0	1.3	1.3	
2005-Jan-03	3:26	87	4.6	2.8	8.35	4.6	3.5	3.5	
2005-Jan-03	3:26	110	5.0	5.2	8.33	5.0	5.9	5.9	
2005-Jan-03	3:27	124	5.0	7.7	8.34	5.1	8.5	8.5	
2005-Jan-03	3:27	124	5.0	8.0	8.34	5.2	8.7	8.7	
2005-Jan-03	3:27								End Spacer
2005-Jan-03	3:27								Reset Total, Vol = 8.23 bbl

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Well		Field			Service Date		Customer		Job Number
REED 'D' #4					053-Jan-03		OXY USA, INC.		KCC 2205647194
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	CS Flowmeter	CS Flowmeter Stage	CS Flowmeter Total	Message APR 29 2005 CONFIDENTIAL
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl	
2005-Jan-03	3:27	124	5.1	8.2	8.34	5.2	9.0	9.0	CONFIDENTIAL
2005-Jan-03	3:27	119	5.1	0.3	8.35	5.1	0.3	0.3	
2005-Jan-03	3:27								Start Mixing Lead Slurry
2005-Jan-03	3:27	119	5.1	2.0	8.38	5.1	2.1	2.1	
2005-Jan-03	3:28	119	5.2	4.6	8.38	5.3	4.6	4.6	
2005-Jan-03	3:28	23	0.0	5.4	8.38	0.0	5.9	5.9	
2005-Jan-03	3:29	14	0.0	5.4	9.89	2.7	7.0	7.0	
2005-Jan-03	3:29	46	3.4	5.6	10.29	3.1	7.3	7.3	
2005-Jan-03	3:29								Reset Total, Vol = 5.55 bbl
2005-Jan-03	3:29	114	4.2	1.5	11.58	4.1	1.5	1.5	
2005-Jan-03	3:30	114	4.3	3.6	12.10	4.3	3.6	3.6	
2005-Jan-03	3:30	92	4.3	5.8	12.52	3.9	5.7	5.7	
2005-Jan-03	3:31	133	5.0	8.1	12.32	5.1	7.8	7.8	
2005-Jan-03	3:31	133	5.0	10.6	12.26	5.0	10.2	10.2	
2005-Jan-03	3:32	124	5.0	13.1	12.02	5.1	12.8	12.8	
2005-Jan-03	3:32	124	5.1	15.6	12.07	5.1	15.3	15.3	
2005-Jan-03	3:33	128	5.1	18.2	12.19	5.1	17.9	17.9	
2005-Jan-03	3:33	119	5.1	20.7	11.96	5.1	20.4	20.4	
2005-Jan-03	3:34	73	4.0	22.8	12.08	4.1	22.6	22.6	
2005-Jan-03	3:34	73	4.0	24.8	12.65	4.1	24.6	24.6	
2005-Jan-03	3:35	82	4.1	26.8	12.85	4.1	26.6	26.6	
2005-Jan-03	3:35	101	4.9	29.2	12.70	4.5	28.9	28.9	
2005-Jan-03	3:36	119	5.1	31.7	12.46	5.2	31.4	31.4	
2005-Jan-03	3:36	114	5.1	34.2	12.16	5.2	34.0	34.0	
2005-Jan-03	3:37	110	5.1	36.8	11.98	5.2	36.6	36.6	
2005-Jan-03	3:37	101	4.8	39.3	11.89	4.9	39.2	39.2	
2005-Jan-03	3:38	96	4.7	41.7	12.14	4.7	41.6	41.6	
2005-Jan-03	3:38	96	4.7	44.0	12.23	4.8	43.9	43.9	
2005-Jan-03	3:39	96	4.7	46.4	12.37	4.8	46.3	46.3	
2005-Jan-03	3:39	96	4.7	48.7	12.58	4.8	48.7	48.7	
2005-Jan-03	3:40	96	4.7	51.1	12.27	4.8	51.1	51.1	
2005-Jan-03	3:40	96	4.7	53.5	12.41	4.9	53.5	53.5	
2005-Jan-03	3:41	96	4.7	55.8	12.69	4.8	55.9	55.9	
2005-Jan-03	3:41	96	4.7	58.2	12.53	4.9	58.3	58.3	
2005-Jan-03	3:42	92	4.7	60.5	12.16	4.8	60.6	60.6	
2005-Jan-03	3:42	92	4.7	62.9	11.74	4.8	63.0	63.0	
2005-Jan-03	3:43	46	3.2	64.8	11.73	3.5	65.0	65.0	
2005-Jan-03	3:43	46	3.4	66.4	12.07	3.5	66.7	66.7	
2005-Jan-03	3:44	46	3.3	68.1	12.00	3.6	68.5	68.5	
2005-Jan-03	3:44	41	3.4	69.8	12.22	3.5	70.3	70.3	
2005-Jan-03	3:45	41	3.3	71.4	12.10	3.6	72.0	72.0	
2005-Jan-03	3:45	41	3.1	73.1	12.13	3.6	73.8	73.8	
2005-Jan-03	3:46	41	3.0	74.6	12.21	3.5	75.6	75.6	
2005-Jan-03	3:46	41	3.0	76.1	12.59	3.5	77.3	77.3	
2005-Jan-03	3:47	41	2.9	77.6	13.39	3.5	79.0	79.0	
2005-Jan-03	3:47								End Lead Slurry
2005-Jan-03	3:47	46	2.9	78.7	14.66	3.3	80.3	80.3	
2005-Jan-03	3:47	46	2.9	78.8	14.69	3.3	80.4	80.4	
2005-Jan-03	3:47								Reset Total, Vol = 78.77 bbl
2005-Jan-03	3:47	46	2.9	0.1	14.71	3.2	0.2	0.2	
2005-Jan-03	3:47								Start Mixing Tail Slurry
2005-Jan-03	3:47	46	2.9	0.3	14.71	3.0	0.4	0.4	
2005-Jan-03	3:48	46	3.1	1.9	14.71	3.3	2.0	2.0	
2005-Jan-03	3:48	55	3.4	3.5	15.10	3.3	3.6	3.6	

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Well		Field			Service Date		Customer		Job Number	
REED 'D' #4					053-Jan-03		OXY USA, INC.		2205547194	
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	CS Flowmeter	CS Flowmeter Stage	CS Flowmeter Total	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl		
2005-Jan-03	3:49	142	4.8	5.5	15.38	4.7	5.5	5.5	KCC APR 29 2005 CONFIDENTIAL	
2005-Jan-03	3:49	188	5.1	8.1	15.58	5.1	8.0	8.0		
2005-Jan-03	3:50	192	5.2	10.6	15.52	5.2	10.6	10.6		
2005-Jan-03	3:50	174	5.2	13.2	15.26	5.2	13.2	13.2		
2005-Jan-03	3:51	160	5.2	15.8	14.92	5.3	15.8	15.8		
2005-Jan-03	3:51	160	5.2	18.4	14.77	5.4	18.4	18.4		
2005-Jan-03	3:52	165	5.2	21.0	14.92	5.2	21.0	21.0		
2005-Jan-03	3:52	151	5.1	23.5	15.08	4.9	23.6	23.6		
2005-Jan-03	3:53	169	5.1	26.1	15.17	5.2	26.2	26.2		
2005-Jan-03	3:53	128	4.4	28.5	15.17	4.5	28.7	28.7		
2005-Jan-03	3:54	119	4.3	30.7	15.27	4.4	30.9	30.9		
2005-Jan-03	3:54	124	4.3	32.9	15.52	4.5	33.1	33.1		
2005-Jan-03	3:55	-14	0.0	34.4	14.69	0.0	34.9	34.9		
2005-Jan-03	3:55	-14	0.0	34.4	14.69	0.0	34.9	34.9		
2005-Jan-03	3:55								End Tail Slurry	
2005-Jan-03	3:55	-9	0.0	34.4	14.79	0.0	34.9	34.9		
2005-Jan-03	3:55								Reset Total, Vol = 34.43 bbl	
2005-Jan-03	3:55								Drop Top Plug	
2005-Jan-03	3:55	-14	0.0	0.0	15.33	0.0	0.0	0.0		
2005-Jan-03	3:55	-9	0.0	0.0	15.35	0.0	0.0	0.0		
2005-Jan-03	3:55								Start Displacement	
2005-Jan-03	3:55	-14	0.0	0.0	15.45	0.0	0.0	0.0		
2005-Jan-03	3:56	-14	0.0	0.0	14.85	0.0	0.0	0.0		
2005-Jan-03	3:56	-14	0.0	0.0	12.27	0.2	0.1	0.1		
2005-Jan-03	3:57	-14	0.0	0.0	10.63	0.3	0.2	0.2		
2005-Jan-03	3:57	-9	0.0	0.0	10.11	0.2	0.2	0.2		
2005-Jan-03	3:58	-9	0.0	0.0	9.86	0.1	0.3	0.3		
2005-Jan-03	3:58	-9	0.0	0.0	9.57	0.2	0.3	0.3		
2005-Jan-03	3:59	-9	0.0	0.0	8.97	4.2	1.3	1.3		
2005-Jan-03	4:00	-14	0.0	0.0	8.91	0.0	1.5	1.5		
2005-Jan-03	4:00	-14	0.0	0.0	8.91	0.0	1.5	1.5		
2005-Jan-03	4:01	-14	0.0	0.0	8.91	0.0	1.5	1.5		
2005-Jan-03	4:01	-9	0.0	0.0	8.91	0.0	1.5	1.5		
2005-Jan-03	4:02	-14	0.0	0.0	8.90	0.0	1.5	1.5		
2005-Jan-03	4:02	41	2.9	0.1	8.85	2.8	1.8	1.8		
2005-Jan-03	4:03	64	4.9	2.4	8.85	5.2	4.1	4.1		
2005-Jan-03	4:03	69	5.0	4.9	8.82	5.1	6.6	6.6		
2005-Jan-03	4:04	60	5.0	7.4	8.38	5.2	9.2	9.2		
2005-Jan-03	4:04	55	5.0	9.9	8.38	5.3	11.8	11.8		
2005-Jan-03	4:05	73	5.0	12.4	8.44	5.1	14.4	14.4		
2005-Jan-03	4:05	82	5.1	15.0	8.45	5.2	17.0	17.0		
2005-Jan-03	4:06	96	5.1	17.5	8.38	5.2	19.6	19.6		
2005-Jan-03	4:06	119	5.1	20.1	8.38	5.1	22.2	22.2		
2005-Jan-03	4:07	142	5.1	22.6	8.38	5.2	24.8	24.8		
2005-Jan-03	4:07	156	5.1	25.2	8.38	5.2	27.4	27.4		
2005-Jan-03	4:08	169	5.1	27.7	8.38	5.3	30.0	30.0		
2005-Jan-03	4:08	188	5.2	30.3	8.38	5.3	32.6	32.6		
2005-Jan-03	4:09	211	5.2	32.9	8.37	5.3	35.2	35.2		
2005-Jan-03	4:09	188	2.9	35.4	8.37	4.1	37.8	37.8		
2005-Jan-03	4:10	160	1.7	36.5	8.37	1.7	38.9	38.9		
2005-Jan-03	4:10	165	1.6	37.3	8.37	1.7	39.8	39.8		
2005-Jan-03	4:11	165	1.7	38.2	8.37	1.7	40.7	40.7		
2005-Jan-03	4:11	174	1.6	39.0	8.37	1.8	41.5	41.5		
2005-Jan-03	4:12	179	1.7	39.8	8.37	1.7	42.3	42.3		

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Well		Field			Service Date		Customer		Job Number	
REED 'D' #4					053-Jan-03		OXY USA, INC.		2205547194	
Date	Time	Treating Pressure	Pump Rate	Pump Vol	CMT DENS	CS Flowmeter	CS Flowmeter Stage	CS Flowmeter Total	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	bbl		
2005-Jan-03	4:12	183	1.7	40.6	8.37	1.6	43.2	43.2	KCC APR 29 2005 CONFIDENTIAL	
2005-Jan-03	4:13	201	1.7	41.5	8.37	1.7	44.0	44.0		
2005-Jan-03	4:13	206	1.7	42.3	8.37	1.7	44.9	44.9		
2005-Jan-03	4:14	211	1.7	43.1	8.37	1.7	45.7	45.7		
2005-Jan-03	4:14	623	1.5	44.0	8.37	1.7	46.5	46.5		
2005-Jan-03	4:14	906	0.0	44.0	8.37	0.0	46.6	46.6		
2005-Jan-03	4:14								Bump Top Plug	
2005-Jan-03	4:14								End Displacement	
2005-Jan-03	4:14	897	0.0	44.0	8.37	0.0	46.6	46.6		
2005-Jan-03	4:14	893	0.0	44.0	8.37	0.0	46.6	46.6		
2005-Jan-03	4:14								Reset Total, Vol = 44.02 bbl	
2005-Jan-03	4:15	888	0.0	0.0	8.37	0.0	0.0	0.0		
2005-Jan-03	4:15	96	0.0	0.0	8.37	0.0	0.0	0.0		
2005-Jan-03	4:16	-9	0.0	0.0	8.37	0.0	0.0	0.0		
2005-Jan-03	4:16								FLOATS HOLDING	
2005-Jan-03	4:16	-9	0.0	0.0	8.37	0.0	0.0	0.0		
2005-Jan-03	4:16	-9	0.0	0.0	8.37	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	
4			5.6	120	0	10		
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density		
1000		190	1000			8.34 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	50	bbl	
%	120 bbl	44.9 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor		<input type="checkbox"/> CirculationLost			<input checked="" type="checkbox"/> Job Completed
Greg, Fillpot,			Landeros, Feliverto					

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Schlumberger

Date	1/3/2004
Company	OXY USA, INC.
Job Number	2205547194
Well Name	REED 'D' 4
Well Number	D-4
County	GRANT
State	KANSAS

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	748.3	
Shoe Length	43.23	
Insert Depth	705.07	
Hole Size	12 1/4	
Hole Depth	745	
Shoe Volume	3	
Pipe Volume	48	
Annular Volume	55	
Total Cement	120	
Total Water	131	
Total Excess	113%	
Pipe Factor	0.0637	
Annular Factor	0.0735	0.0602
Height Factor	2.4231	

O.H. 
109

35/65 POZ C + ADDS	
215 sacks	
2.19 yield	
12.2 weight	
12.4 water	63.5
cubic ft.	471
height	1141
bbls	83.9

CLASS C + 2% S001	
150 sacks	
1.34 yield	
14.8 weight	
6.35 water	23
cubic ft.	201
height	487
bbls	35.8

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

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

Casing lift 276
Cement lift 209

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CONSERVATION DIVISION
WICHITA, KS

Test 2500

0 Mud

0 Spacer

84 Lead 12.2

36 Tail 14.8

44.9 Displacement

500 Maximum Pressure

Pump time @ 4 BPM

41 MIN