

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

September 1999

CONFIDENTIAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL  
Form Must Be Typed

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 - 067-21592-0000  
County: Grant  
NW - NW - SE - SE Sec 11 Twp. 29 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: Diehl A Well #: 4  
Field Name: Panoma Council Grove  
Producing Formation: Council Grove

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

Elevation: Ground: 3033 Kelly Bushing: 3039  
Total Depth: 3128 Plug Back Total Depth: 3085  
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.

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. \_\_\_\_\_  
01/09/05 01/11/05 02/17/05  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

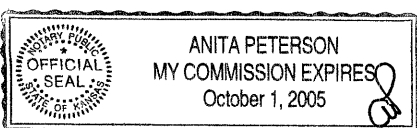
Drilling Fluid Management Plan ALTI WHM  
(Data must be collected from the Reserve Pit) 4-6-07  
Chloride content 6000 mg/l ppm Fluid volume 900 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License 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 3, 2005  
Subscribed and sworn to before me this 3<sup>rd</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



X

Side Two

Operator Name: OXY USA Inc. Lease Name: Diehl A Well #: 4  
 Sec. 11 Twp. 29 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	2574	459
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Krider	2594	439
List All E. Logs Run:	Neutron TracerScan	Winfield	2640	393
CBL		Towanda	2708	325
		Ft. Riley	2760	273
		Florence	2815	218
		Matfield	2832	201
		Wreford	2850	183
		Council Grove	2877	156

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	195	35/65 Poz + Additives
					C	150	Class C + Additives
Production	7 7/8	4 1/2	10.5	3127	C	190	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 (Amount and Kind of Material Used)	Depth
4	2914-2951		
2	2878-2914	Acidize - 4500 gls 15% HCL	
		Diverta Frac - 17,508 gls WF125 gel wtr,	
		12,665# 100 mesh sand, 20618 gls WF125	
		75%N2, 180,000# 16/30 sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8	2965		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 03/10/05			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	Water BbLS	Gas-Oil Ratio	Gravity
		87	33		

Disposition of Gas

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
*(If vented, Submit ACO-18)*  
 Other (Specify) \_\_\_\_\_

Customer <b>OXY USA, INC.</b>	Job Number <b>2205547610</b>
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Well <b>DIEHL A-4</b>			Location (legal) <b>Sec 11-T29S-R35W</b>			Schlumberger Location <b>Perryton, TX</b>			Job Start <b>2005-Jan-09</b>			
Field <b>Council Grove</b>			Formation Name/Type			Deviation <b>°</b>		Bit Size <b>12.3 in</b>	Well MD <b>745 ft</b>		Well TVD <b>745 ft</b>	
County <b>GRANT</b>			State/Province <b>Kansas</b>			BHP <b>psi</b>	BHST <b>88 °F</b>	BHCT <b>°F</b>		Pore Press. Gradient <b>psi/ft</b>		
Well Master: <b>0630652885</b>			API / UWI:			Casing/Liner						
Rig Name		Drilled For <b>Gas</b>		Service Via <b>Land</b>		Depth, ft <b>743.61</b>	Size, in <b>8.63</b>	Weight, lb/ft <b>24</b>	Grade	Thread		
Offshore Zone		Well Class <b>New</b>		Well Type <b>Development</b>		Tubing/Drill Pipe						
Drilling Fluid Type			Max. Density <b>lb/gal</b>		Plastic Vt. cp	Depth,	Size, in	Weight, lb/ft	Grade	Thread		
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>					Perforations/Open Hole					
Max. Allowed Tubing Pressure <b>2000 psi</b>		Max. Allowed Ann. Pressure <b>psi</b>		Wellhead Connection <b>8 5/8" H&amp;SM</b>		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval <b>ft</b>		
Service Instructions <b>CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 195 SK 35.65 POZ:CLASS C + 6% D020 + 2% S001 + 0.5 pps D029 150 SK CLASS C + 2% S001 + 0.25 pps D029</b>						Treat Down <b>Casing</b>	Displacement <b>45 bbl</b>	Packer Type		Packer Depth <b>ft</b>		
						Tubing Vol. <b>bbl</b>	Casing Vol. <b>48 bbl</b>	Annular Vol. <b>55 bbl</b>		Open Hole Vol. <b>103 bbl</b>		
Casing/Tubing Secured <input checked="" type="checkbox"/>			1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>			Casing Tools			Squeeze Job			
Lift Pressure: <b>200 psi</b>			Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input type="checkbox"/>			Shoe Type:			
No. Centralizers:			Top Plugs:		Bottom Plugs: <b>1</b>		Shoe Depth: <b>ft</b>			Squeeze Type:		
Cement Head Type: <b>Single</b>			Job Scheduled For:			Arrived on Location: <b>2005-Jan-09 13:00</b>			Leave Location: <b>2005-Jan-09 23:30</b>			
						Stage Tool Type:			Tool Depth: <b>ft</b>			
						Stage Tool Depth: <b>ft</b>			Tail Pipe Size: <b>in</b>			
						Collar Type:			Tail Pipe Depth: <b>ft</b>			
						Collar Depth: <b>ft</b>			Sqz Total Vol: <b>bbl</b>			
Date	Time	Annulus psi	Density lb/gal	Rate bbl/min	Volume bbl	0	0	0	Message			
2005-Jan-09	21:07	0	8.35	0.0	0.0	0	0	0				
2005-Jan-09	21:07								Start Job			
2005-Jan-09	21:07	-5	8.35	0.0	0.0	0	0	0				
2005-Jan-09	21:09								Pressure Test Lines			
2005-Jan-09	21:09	0	8.35	0.0	0.0	0	0	0	Start			
2005-Jan-09	21:09	0	8.35	0.0	0.0	0	0	0	<b>RECEIVED</b>			
2005-Jan-09	21:09	0	8.35	0.0	0.0	0	0	0	<b>MAY - 6 2005</b>			
2005-Jan-09	21:10	0	8.35	0.0	0.0	0	0	0	<b>KCC WICHITA</b>			
2005-Jan-09	21:11	-5	8.35	0.0	0.0	0	0	0				
2005-Jan-09	21:12	-5	8.35	0.0	0.0	0	0	0	<b>KCC</b>			
2005-Jan-09	21:13	0	8.35	0.0	0.0	0	0	0	<b>MAY 04 2005</b>			
2005-Jan-09	21:14	-5	8.35	0.0	0.0	0	0	0	<b>CONFIDENTIAL</b>			
2005-Jan-09	21:15	0	8.36	0.9	0.1	0	0	0				
2005-Jan-09	21:16	0	8.36	0.0	0.2	0	0	0				
2005-Jan-09	21:17	-5	8.36	0.0	0.2	0	0	0				
2005-Jan-09	21:18	0	8.36	4.0	0.4	0	0	0				
2005-Jan-09	21:19	0	9.01	4.9	5.0	0	0	0				
2005-Jan-09	21:19	-5	9.28	4.9	5.5	0	0	0				
2005-Jan-09	21:19								End Spacer			
2005-Jan-09	21:19	0	9.42	4.9	5.8	0	0	0				
2005-Jan-09	21:19								Start Cement Slurry			

Well		Field			Service Date		Customer		Job Number
DIEHL #A-4		Council Grove			059-Jan-09		OXY USA, INC.		2205547610
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbbl/min	bbbl	0	0	0	
2005-Jan-09	21:19								Reset Total, Vol = 10 bbl
2005-Jan-09	21:19	-5	9.61	4.9	6.1	0	0	0	
2005-Jan-09	21:20	0	11.29	5.3	4.1	0	0	0	
2005-Jan-09	21:21	0	12.31	5.4	9.5	0	0	0	
2005-Jan-09	21:22	0	12.31	5.7	15.0	0	0	0	
2005-Jan-09	21:23	0	12.21	5.7	20.7	0	0	0	
2005-Jan-09	21:24	0	12.11	5.8	26.5	0	0	0	
2005-Jan-09	21:25	0	12.35	5.8	32.3	0	0	0	
2005-Jan-09	21:26	-5	12.21	4.4	38.1	0	0	0	
2005-Jan-09	21:27	-5	12.07	5.3	43.5	0	0	0	
2005-Jan-09	21:28	0	12.37	5.6	49.2	0	0	0	
2005-Jan-09	21:29	0	12.36	5.8	54.8	0	0	0	
2005-Jan-09	21:30	0	12.33	6.0	60.7	0	0	0	
2005-Jan-09	21:31	-5	12.27	6.0	66.7	0	0	0	
2005-Jan-09	21:32	0	12.09	6.1	72.7	0	0	0	
2005-Jan-09	21:33	0	14.29	4.1	76.9	0	0	0	
2005-Jan-09	21:34	-5	14.65	5.2	82.0	0	0	0	
2005-Jan-09	21:35								End Cement Slurry
2005-Jan-09	21:35	0	14.18	5.4	84.7	0	0	0	
2005-Jan-09	21:35								Start Mixing Tail Slurry
2005-Jan-09	21:35	-5	14.18	5.4	84.8	0	0	0	
2005-Jan-09	21:35	0	14.18	5.4	85.1	0	0	0	
2005-Jan-09	21:35								Reset Total, Vol = 76 bbl
2005-Jan-09	21:35	0	14.43	5.3	2.1	0	0	0	
2005-Jan-09	21:36	0	14.91	5.3	13.4	0	0	0	
2005-Jan-09	21:37	-5	14.57	5.3	18.7	0	0	0	
2005-Jan-09	21:38	-5	14.64	5.3	24.1	0	0	0	
2005-Jan-09	21:39	0	14.59	5.3	29.5	0	0	0	
2005-Jan-09	21:40	0	14.47	2.9	33.3	0	0	0	
2005-Jan-09	21:40	0	14.42	0.0	33.4	0	0	0	
2005-Jan-09	21:40								End Tail Slurry
2005-Jan-09	21:40	0	14.42	0.0	33.4	0	0	0	
2005-Jan-09	21:40								Reset Total, Vol = 33.40 bbl
2005-Jan-09	21:41	-5	14.42	0.0	0.0	0	0	0	
2005-Jan-09	21:41								Drop Top Plug
2005-Jan-09	21:41	0	14.42	0.0	0.0	0	0	0	
2005-Jan-09	21:41								Start Displacement
2005-Jan-09	21:41	-5	8.39	0.0	0.0	0	0	0	
2005-Jan-09	21:42	-5	8.39	0.0	0.0	0	0	0	
2005-Jan-09	21:43	0	9.38	0.0	0.0	0	0	0	
2005-Jan-09	21:44	0	9.20	0.0	0.0	0	0	0	
2005-Jan-09	21:45	0	9.17	0.0	0.0	0	0	0	
2005-Jan-09	21:46	0	9.15	0.0	0.0	0	0	0	
2005-Jan-09	21:47	0	8.93	0.0	0.0	0	0	0	
2005-Jan-09	21:48	0	8.93	0.0	0.0	0	0	0	
2005-Jan-09	21:49	0	8.92	0.0	0.0	0	0	0	
2005-Jan-09	21:50	-5	8.91	0.0	0.0	0	0	0	
2005-Jan-09	21:51	0	8.89	0.0	0.0	0	0	0	
2005-Jan-09	21:52	-5	8.88	0.0	0.0	0	0	0	
2005-Jan-09	21:53	5	8.87	0.0	0.0	0	0	0	
2005-Jan-09	21:54	0	8.85	0.0	0.0	0	0	0	
2005-Jan-09	21:55	0	8.83	0.0	0.0	0	0	0	
2005-Jan-09	21:56	-5	8.91	3.9	2.5	0	0	0	
2005-Jan-09	21:57	0	8.37	3.9	6.4	0	0	0	

KCC  
MAY 14 2015  
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**ORIGINAL**

Well		Field			Service Date		Customer		Job Number	
DIEHL #A-4		Council Grove			059-Jan-09		OXY USA, INC.		2205547610	
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbf/min	bbf	0	0	0		
2005-Jan-09	21:58	-5	8.45	4.0	10.4	0	0	0	<b>KCC</b> <b>MAY 04 2005</b> <b>CONFIDENTIAL</b>	
2005-Jan-09	21:59	-5	8.37	3.9	14.3	0	0	0		
2005-Jan-09	22:00	-5	8.38	4.0	18.3	0	0	0		
2005-Jan-09	22:01	-5	8.38	3.9	22.2	0	0	0		
2005-Jan-09	22:02	-5	8.37	5.2	26.5	0	0	0		
2005-Jan-09	22:03	-5	8.37	4.5	31.6	0	0	0		
2005-Jan-09	22:04	0	8.37	2.5	35.6	0	0	0		
2005-Jan-09	22:05	0	8.37	2.3	37.9	0	0	0		
2005-Jan-09	22:06	-5	8.37	2.3	40.2	0	0	0		
2005-Jan-09	22:07	-5	8.37	2.3	42.5	0	0	0		
2005-Jan-09	22:08	-5	8.37	2.3	44.8	0	0	0		
2005-Jan-09	22:09	-5	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:10	-5	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:11	-5	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:12	0	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:13	-5	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:14	0	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:14								End Displacement	
2005-Jan-09	22:14								Bump Top Plug	
2005-Jan-09	22:14	0	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:14								Reset Total, Vol = 45.38 bbl	
2005-Jan-09	22:14	-5	8.37	0.0	45.4	0	0	0		
2005-Jan-09	22:14								End Job	
2005-Jan-09	22:14	0	8.37	0.0	0.0	0	0	0		
Post Job Summary										
Average Pump Rates, bpm					Volume of Fluid Injected, bbl					
Slurry	N2		Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4				5	112		10			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average		Bump Plug to	Breakdown	Volume		Density		
500		120		500		bbl		lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume			
%	112 bbl		45 bbl	°F	<input type="checkbox"/>		To ft			
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		
Fillpot, Gregg			Tan, Naveen							

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ORIGINAL

MAY 04 2005

629-1413

CONFIDENTIAL Schlumberger

Date	1/9/2005
Company	Oxy USA Inc.
Job Number	2205547610
Well Name	DIEHL
Well Number	A-4
County	Grant
State	Kansas

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	749.61	
Shoe Length	43	
Insert Depth	706.61	
Hole Size	12 1/4	
Hole Depth	745	

Lead	
195 sacks	35:65 Poz C
2.19 yield	D20,S1,D29
12.2 weight	
12.4 water	57.6
cubic ft.	427
height	1035
bbls	76.1

103	Pipe Volume	48
	Annular Volume	55
	Total Cement	112
	Total Water	125

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

Tail	
150 sacks	Class C
1.34 yield	S1,D29
14.8 weight	
6.35 water	23
cubic ft.	201
height	487
bbls	35.8

Casing lift 308  
Cement lift 202

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

Test 2000 psi

Mud

10 Spacer

76 Lead 12.2

36 Tail 14.8

45.0 Displacement

2000 Maximum Pressure

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

Pump time @ 4 BPM 39 MIN

Customer OXY USA, INC.	Job Number 2205547615
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Well DIEHL A-4		Location (legal) Sec 11-T29S-R35W		Schlumberger Location Perryton, TX		Job Start 2005-Jan-12			
Field Council Grove		Formation Name/Type		Deviation °		Bit Size 7.88 in			
County GRANT		State/Province Kansas		BHP psi		Well MD 3,128 ft			
Well Master: 0630652885		API / UWI:		Casing/Liner					
Rig Name		Drilled For Gas		Service Via Land		Well TVD 3,128 ft			
Offshore Zone		Well Class New		Well Type Development		Well MD 3,128 ft			
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Pore Press. Gradient psi/ft			
Service Line Cementing		Job Type Cem Prod Casing		Casing/Liner					
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		Well Head Connection 4 1/2" H & SM		Perforations/Open Hole			
Service Instructions CEMENT PROD 4 1/2" CASING: 20 BBLs CW100 190 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 + 0.25 %D112 + 0.25 %D65 + 0.25%D46 DISPLACE W/ TREATED WATER				Top, ft		Bottom, ft			
				spf		No. of Shots			
				Total Interval ft		Diameter in			
				Treat Down Casing		Displacement 49.2 bbl			
				Packer Type		Packer Depth ft			
				Tubing Vol. bbl		Casing Vol. 50 bbl			
				Annular Vol. 127 bbl		Open Hole Vol. 177 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools					
Lift Pressure: 600 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Squeeze Job			
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 1		Shoe Type: Auto-Fill			
Cement Head Type: Single						Shoe Depth: ft			
Job Scheduled For:		Arrived on Location: 2005-Jan-11 23:00		Leave Location: 2005-Jan-12 3:00		Stage Tool Depth: ft			
						Tail Pipe Size: in			
						Collar Type: Float			
						Collar Depth: 3091 ft			
						Sqz Total Vol: bbl			
Date	Time	Annulus psi	Density lb/gal	Rate bbl/min	Volume bbl	0	0	0	Message
2005-Jan-12	0:28	-5	8.36	0.0	0.0	0	0	0	
2005-Jan-12	0:28					0	0	0	Start Job
2005-Jan-12	0:28	0	8.34	0.0	0.0	0	0	0	Pressure Test Lines
2005-Jan-12	0:28	0	8.34	0.0	0.0	0	0	0	
2005-Jan-12	0:28	0	8.35	0.0	0.0	0	0	0	Start Pumping Wash
2005-Jan-12	0:28					0	0	0	
2005-Jan-12	0:29	-5	8.35	0.0	0.0	0	0	0	
2005-Jan-12	0:30	-5	8.35	0.0	0.0	0	0	0	
2005-Jan-12	0:31								Reset Total, Vol = 0.00 bbl
2005-Jan-12	0:31	-5	8.34	0.0	0.0	0	0	0	
2005-Jan-12	0:31	-5	8.36	0.0	0.0	0	0	0	
2005-Jan-12	0:32	-5	8.36	0.0	0.3	0	0	0	
2005-Jan-12	0:33	0	8.36	0.0	0.3	0	0	0	
2005-Jan-12	0:34	-5	8.36	0.0	0.3	0	0	0	
2005-Jan-12	0:34								Reset Total, Vol = 0.28 bbl
2005-Jan-12	0:34	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	0:35	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	0:36	0	8.37	4.9	3.4	0	0	0	
2005-Jan-12	0:37	0	8.37	0.4	6.7	0	0	0	
2005-Jan-12	0:38	-5	8.37	0.4	7.1	0	0	0	
2005-Jan-12	0:39	0	8.37	0.4	7.5	0	0	0	

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Well		Field			Service Date		Customer		Job Number	
DIEHL #A-4		Council Grove			0512-Jan-12		OXY USA, INC.		2205547615	
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0		
2005-Jan-12	0:40	0	8.37	0.2	7.7	0	0	0	<b>KCC</b> <b>MAY 04 2005</b> <b>CONFIDENTIAL</b>	
2005-Jan-12	0:41	0	8.37	0.2	7.9	0	0	0		
2005-Jan-12	0:42	0	8.36	0.2	8.0	0	0	0		
2005-Jan-12	0:43	-5	8.36	0.2	8.2	0	0	0		
2005-Jan-12	0:44	-5	8.35	3.0	9.1	0	0	0		
2005-Jan-12	0:45	0	8.35	0.4	9.8	0	0	0		
2005-Jan-12	0:46	0	8.35	0.4	10.2	0	0	0		
2005-Jan-12	0:47	-5	8.34	4.9	13.7	0	0	0		
2005-Jan-12	0:48	0	8.35	5.1	18.7	0	0	0		
2005-Jan-12	0:49	0	8.35	0.3	22.5	0	0	0		
2005-Jan-12	0:49	0	8.35	0.3	22.6	0	0	0		
2005-Jan-12	0:49								End Wash	
2005-Jan-12	0:49								Reset Total, Vol = 22.58 bbl	
2005-Jan-12	0:49	-5	8.35	0.2	22.6	0	0	0		
2005-Jan-12	0:49	0	8.35	0.2	0.0	0	0	0		
2005-Jan-12	0:49								Start Mixing Lead Slurry	
2005-Jan-12	0:50	-5	8.85	3.6	0.6	0	0	0		
2005-Jan-12	0:51	0	10.74	4.9	5.3	0	0	0		
2005-Jan-12	0:52	-5	11.00	3.0	10.0	0	0	0		
2005-Jan-12	0:53	-5	11.77	3.8	13.0	0	0	0		
2005-Jan-12	0:54	0	10.63	4.0	17.0	0	0	0		
2005-Jan-12	0:55	0	11.66	4.9	21.2	0	0	0		
2005-Jan-12	0:56	-5	11.49	5.0	26.2	0	0	0		
2005-Jan-12	0:57	-5	10.99	4.7	31.1	0	0	0		
2005-Jan-12	0:58	0	10.71	4.8	35.8	0	0	0		
2005-Jan-12	0:59	0	11.85	4.8	40.6	0	0	0		
2005-Jan-12	1:00	0	10.63	4.8	45.4	0	0	0		
2005-Jan-12	1:01	0	11.22	4.8	50.1	0	0	0		
2005-Jan-12	1:02	-5	11.15	4.8	54.9	0	0	0		
2005-Jan-12	1:03	-5	10.90	4.8	59.7	0	0	0		
2005-Jan-12	1:04	0	10.83	4.8	64.5	0	0	0		
2005-Jan-12	1:05	-5	10.88	4.8	69.3	0	0	0		
2005-Jan-12	1:06	0	10.92	4.8	74.1	0	0	0		
2005-Jan-12	1:07	0	10.94	4.8	78.9	0	0	0		
2005-Jan-12	1:08	0	10.81	4.8	83.8	0	0	0		
2005-Jan-12	1:09	-5	11.13	4.8	88.7	0	0	0		
2005-Jan-12	1:10	-5	11.36	4.8	93.5	0	0	0		
2005-Jan-12	1:11	0	11.22	4.8	98.3	0	0	0		
2005-Jan-12	1:12	0	11.14	4.9	103.2	0	0	0		
2005-Jan-12	1:13	0	11.43	4.8	108.0	0	0	0		
2005-Jan-12	1:14	0	12.46	4.8	112.9	0	0	0		
2005-Jan-12	1:14									
2005-Jan-12	1:14	-5	12.71	4.9	113.3	0	0	0	End Lead Slurry	
2005-Jan-12	1:14	0	12.79	4.8	113.4	0	0	0		
2005-Jan-12	1:14									
2005-Jan-12	1:14	0	12.82	4.9	0.1	0	0	0	Reset Total, Vol = 113.42 bbl	
2005-Jan-12	1:14									
2005-Jan-12	1:15	-5	13.65	4.9	4.3	0	0	0	Start Mixing Tail Slurry	
2005-Jan-12	1:16	0	13.62	4.8	9.1	0	0	0		
2005-Jan-12	1:17	-5	13.76	4.9	14.0	0	0	0		
2005-Jan-12	1:18	0	13.81	4.9	18.8	0	0	0		
2005-Jan-12	1:19	5	13.86	4.9	23.7	0	0	0		
2005-Jan-12	1:20	0	13.73	4.9	28.6	0	0	0		
2005-Jan-12	1:21	-5	13.82	4.9	33.5	0	0	0		



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Well		Field		Service Date		Customer			Job Number
DIEHL #A-4		Council Grove		0512-Jan-12		OXY USA, INC.			2205547615
Date	Time	Annulus	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2005-Jan-12	1:22	0	13.81	4.9	38.4	0	0	0	<b>KCC</b> <b>MAY 04 2005</b> <b>CONFIDENTIAL</b>
2005-Jan-12	1:23	0	13.84	4.9	43.3	0	0	0	
2005-Jan-12	1:24	0	13.78	4.9	48.1	0	0	0	
2005-Jan-12	1:25	0	13.87	4.9	53.0	0	0	0	
2005-Jan-12	1:26	0	13.79	3.4	57.7	0	0	0	
2005-Jan-12	1:27	0	13.75	0.0	59.2	0	0	0	
2005-Jan-12	1:27								End Tail Slurry
2005-Jan-12	1:27								Reset Total, Vol = 59.16 bbl
2005-Jan-12	1:27	-5	13.68	0.0	59.2	0	0	0	
2005-Jan-12	1:27	0	13.46	0.0	0.0	0	0	0	
2005-Jan-12	1:28	0	13.22	0.0	0.0	0	0	0	
2005-Jan-12	1:29	0	12.37	0.0	0.0	0	0	0	
2005-Jan-12	1:30	0	8.76	4.5	0.0	0	0	0	
2005-Jan-12	1:31	0	8.39	5.1	0.0	0	0	0	
2005-Jan-12	1:32	0	8.38	5.1	0.0	0	0	0	
2005-Jan-12	1:33	-5	8.36	0.0	0.0	0	0	0	
2005-Jan-12	1:34								Reset Total, Vol = 0.00 bbl
2005-Jan-12	1:34	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	1:34								Drop Top Plug
2005-Jan-12	1:34	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	1:34	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	1:34								Start Displacement
2005-Jan-12	1:34	0	8.36	0.0	0.0	0	0	0	
2005-Jan-12	1:35	0	8.35	4.9	3.2	0	0	0	
2005-Jan-12	1:36	0	8.35	5.0	8.2	0	0	0	
2005-Jan-12	1:37	-5	8.35	5.0	13.1	0	0	0	
2005-Jan-12	1:38	0	8.35	5.0	18.1	0	0	0	
2005-Jan-12	1:39	0	8.35	5.1	23.1	0	0	0	
2005-Jan-12	1:40	0	8.35	4.5	27.6	0	0	0	
2005-Jan-12	1:41	-5	8.35	4.5	32.1	0	0	0	
2005-Jan-12	1:42	0	8.35	4.5	36.7	0	0	0	
2005-Jan-12	1:43	0	8.35	2.5	41.1	0	0	0	
2005-Jan-12	1:44	0	8.35	2.5	43.5	0	0	0	
2005-Jan-12	1:45	0	8.35	1.9	45.6	0	0	0	
2005-Jan-12	1:46	0	8.35	1.9	47.5	0	0	0	
2005-Jan-12	1:47	0	8.35	1.9	49.5	0	0	0	
2005-Jan-12	1:48	-5	8.35	0.0	49.6	0	0	0	
2005-Jan-12	1:49	-5	8.35	0.0	49.6	0	0	0	
2005-Jan-12	1:50	0	8.35	0.0	49.6	0	0	0	
2005-Jan-12	1:50								Bump Top Plug
2005-Jan-12	1:50	0	8.35	0.0	49.6	0	0	0	
2005-Jan-12	1:50								End Displacement
2005-Jan-12	1:50	-5	8.35	0.0	49.6	0	0	0	
2005-Jan-12	1:50								Reset Total, Vol = 49.63 bbl
2005-Jan-12	1:50	-5	8.35	0.0	0.0	0	0	0	
2005-Jan-12	1:50								End Job

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Well DIEHL #A-4		Field Council Grove		Service Date 0512-Jan-12		Customer OXY USA, INC.		Job Number 2205547615	
Date	Time 24 hr clock	Annulus psi	Density lb/gal	Rate bbl/min	Volume bbl	0	0	0	Message
						0	0	0	
<b>Post Job Summary</b>									
Average Pump Rates, bpm				Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4			4.5	167	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
600		100	1000		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 5 bbl <input type="checkbox"/> Washed Thru Perfs To ft					
%	167 bbl	49.3 bbl	°F						
Customer or Authorized Representative Fillpot, Greg			Schlumberger Supervisor Tan, Naveen			<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	

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Date	1/11/2005
Company	Oxy USA Inc.
Job Number	2205547615
Well Name	DIEHL A-4
Well Number	A-4
County	Grant
State	KS

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Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	3134	0
Shoe Length	42.49	
Insert Depth	3091.51	
Hole Size	7 7/8	
Hole Depth	3128	

Lead	
190 sacks	Class C
3.3 yield	D79,D46,D29
11 weight	
20.3 water	92
cubic ft.	627
height	2752
bbls	112

177	Pipe Volume	50
	Annular Volume	127
	Total Cement	167
	Total Water	175

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

Tail	
200 sacks	50/50 POZ
1.55 yield	D46,D42,M117,D20,D65,D112,D53
13.8 weight	
7.1 water	34
cubic ft.	310
height	1361
bbls	55.2

Casing lift 2069  
Cement lift 817

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

Test 2000 psi

Mud

20 Spacer CW100

112 Lead 11

55 Tail 13.8

49.2 Displacement With L64 &

2000 Maximum Pressure

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

Pump time @ 4 BPM 54 MIN