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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: ONEOK  
Operator Contact Person: Vicki Carder  
Phone: (620) 629-4200  
Contractor: Name: Cheyenne Drilling LP  
License: 33375  
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: \_\_\_\_\_

API No. 15 - 175-21969-0000  
County: Seward  
     -      - C - NW Sec 29 Twp. 33 S. R. 33W  
1250 feet from S (N) (circle one) Line of Section  
1454 feet from E (W) (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE (NW) SW  
Lease Name: Cole B Well #: 2  
Field Name: Hugoton Chase  
Producing Formation: Chase  
Elevation: Ground: 2860 Kelly Bushing: 2869  
Total Depth: 2833 Plug Back Total Depth: 2783  
Amount of Surface Pipe Set and Cemented at 968 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.

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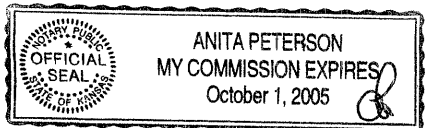
Drilling Fluid Management Plan ALT I WITH  
4-23-07  
(Data must be collected from the Reserve Pit)  
Chloride content 6100 mg/l ppm Fluid volume 900 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License 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 June 30, 2005  
Subscribed and sworn to before me this 30 day of June  
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: Cole B Well #: 2  
 Sec. 29 Twp. 33 S. R. 33W  East  West County: Seward

**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	Hollenberg	2612	257
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2642	227
List All E. Logs Run:	CBL (2 runs) TracerScan	Krider	2671	198
Induction	Sonic Microlog	Winfield	2725	144
Neutron		Towanda	2791	78

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	968	C	435	35/65 Poz + Additives
					C	195	Class C + Additives
Production	7 7/8	4 1/2	10.5	2833	C	140	Class C + Additives
					H	175	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 checked="" type="checkbox"/> Protect Casing	-	H	50	Perf 2700-2701, 4 spf & sqz w/50 sxs Class H
<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	2672-2697	Acidize - 62 bbls 17% HCL-FE	
4	2613-2617, 2619-2630, 2632-2637, 2642-2650	Acidize - 500 gls 15% HCL	
		Frac - 36960 gls WF130 75QN2,	
		86,347# 16/30 Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	2699		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
05/20/05	<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
		48	18		

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) \_\_\_\_\_

Customer OXY USA, INC.	<b>KCC</b>	Job Number 2205547824
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Well COLE 'B' 2		Location (legal) JUN 30 2005		Schlumberger Location Perryton, TX		Job Start 2005-Mar-06	
Field		Formation Name/Type CONFIDENTIAL		Deviation		Well TVD 969 ft	
County SEWARD		State/Province KANSAS		BHP psi		Well MD 969 ft	
Well Master: 0630670235		API / UWI:		BHST 93 °F		BHCT 85 °F	
Rig Name CHEYENNE 8		Drilled For Gas		Service Via Land		Casing/Liner	
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe	
Drilling Fluid Type Bentonite		Max. Density 9.3 lb/gal		Plastic Viscosity 33 cp		Perforations/Open Hole	
Service Line Cementing		Job Type Cem Surface Casing		Max. Allowed Tubing Pressure 1500 psi		Max. Allowed Ann. Pressure psi	
Wellhead Connection 8 5/8" H&SM		Top, ft		Bottom, ft		No. of Shots	
Service Instructions CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 430 SK 35:65 POZ C + 6% D020 + 2% S001 + 0.5 pps D029 195 SK CLASS C + 2% S001 + 0.25 pps D029 DISPLACE WITH FRESH WATER		Total Interval ft		Diameter in		Packer Depth ft	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: 320 psi		Shoe Type: Auto-Fill		Squeeze Type		Shoe Depth: 916.2 ft	
No. Centralizers: Top Plugs: Bottom Plugs: 1		Stage Tool Type:		Tool Depth: ft		Tool Type:	
Cement Head Type: Single		Stage Tool Depth: ft		Tail Pipe Size: in		Tail Pipe Depth: ft	
Job Scheduled For: Arrived on Location: 2005-Mar-06 11:30		Leave Location: 2005-Mar-06 19:30		Collar Type:		Collar Depth: ft	
Sqz Total Vol: bbl		Date		Time		Density	
Message		24 hr clock		lb/gal		bbl/min	
Volume		Flowmeter		Flowmeter Total Vol		CMT TREAT PRES	
bbl		bbl/min		bbl		psi	
0		0		0		0	
2005-Mar-06		17:12		8.34		0.0	
2005-Mar-06		17:12		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:13		8.34		0.0	
2005-Mar-06		17:14		8.34		0.0	
2005-Mar-06		17:14		8.34		0.0	
2005-Mar-06		17:15		8.34		0.0	
2005-Mar-06		17:16		8.34		0.0	
2005-Mar-06		17:16		8.34		0.0	
2005-Mar-06		17:17		8.32		0.0	
2005-Mar-06		17:18		8.32		0.0	
2005-Mar-06		17:18		9.54		0.0	
2005-Mar-06		17:19		11.35		0.0	
2005-Mar-06		17:19		11.63		0.0	
2005-Mar-06		17:19		11.67		0.0	
2005-Mar-06		17:19		11.67		0.0	

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Well		Field		Service Date		Customer		Job Number	
COLE 'B' #2				0565-Mar-06		OXY USA, INC.		2205547824	
Date	Time	Density	Rate	Volume	Flowmeter	FlowmeterTotalVol	CMT TREAT PRES	0	Message
	24 hr clock	lb/gal	bbbl/min	bbbl	bbbl/min	bbbl	psl	0	
2005-Mar-06	17:19	11.76	0.0	0.0	5.5	0.2	142	0	<b>KCC</b> JUN 30 2005 <b>CONFIDENTIAL</b>
2005-Mar-06	17:20	12.37	0.0	0.0	6.0	2.1	137	0	
2005-Mar-06	17:20	12.23	0.0	0.0	25.6	7.1	110	0	
2005-Mar-06	17:21	12.25	0.0	0.0	6.7	14.5	137	0	
2005-Mar-06	17:22	12.44	0.0	0.0	6.3	21.4	124	0	
2005-Mar-06	17:22	12.42	0.0	0.0	24.6	27.8	124	0	
2005-Mar-06	17:23	12.66	0.0	0.0	5.4	33.4	146	0	
2005-Mar-06	17:24	12.25	0.0	0.0	6.2	37.3	124	0	
2005-Mar-06	17:24	12.31	0.0	0.0	4.9	41.8	133	0	
2005-Mar-06	17:25	12.37	0.0	0.0	5.6	46.5	137	0	
2005-Mar-06	17:26	12.34	0.0	0.0	5.6	50.2	128	0	
2005-Mar-06	17:26	12.49	0.0	0.0	5.5	54.1	133	0	
2005-Mar-06	17:27	12.32	0.0	0.0	6.9	58.9	119	0	
2005-Mar-06	17:28	12.54	0.0	0.0	6.2	66.5	133	0	
2005-Mar-06	17:28	12.09	0.0	0.0	9.6	72.1	114	0	
2005-Mar-06	17:29	12.57	0.0	0.0	6.0	78.4	124	0	
2005-Mar-06	17:30	12.88	0.0	0.0	5.9	82.2	142	0	
2005-Mar-06	17:30	12.20	0.0	0.0	5.8	86.0	110	0	
2005-Mar-06	17:31	12.32	0.0	0.0	6.0	89.9	110	0	
2005-Mar-06	17:32	12.38	0.0	0.0	5.7	93.7	110	0	
2005-Mar-06	17:32	12.40	0.0	0.0	5.7	97.5	114	0	
2005-Mar-06	17:33	12.30	0.0	0.0	5.8	101.4	124	0	
2005-Mar-06	17:34	12.15	0.0	0.0	5.9	105.2	105	0	
2005-Mar-06	17:34	12.26	0.0	0.0	5.6	109.0	124	0	
2005-Mar-06	17:35	12.48	0.0	0.0	5.7	112.9	119	0	
2005-Mar-06	17:36	12.40	0.0	0.0	6.0	116.8	114	0	
2005-Mar-06	17:36	12.29	0.0	0.0	5.5	120.6	128	0	
2005-Mar-06	17:37	12.40	0.0	0.0	5.7	124.4	124	0	
2005-Mar-06	17:38	12.40	0.0	0.0	5.8	128.2	124	0	
2005-Mar-06	17:38	12.35	0.0	0.0	5.7	132.0	128	0	
2005-Mar-06	17:39	12.08	0.0	0.0	5.5	135.8	110	0	
2005-Mar-06	17:40	12.13	0.0	0.0	5.6	139.7	114	0	
2005-Mar-06	17:40	12.13	0.0	0.0	6.0	143.5	146	0	
2005-Mar-06	17:41	12.11	0.0	0.0	5.7	147.3	151	0	
2005-Mar-06	17:42	12.88	0.0	0.0	5.9	151.2	183	0	
2005-Mar-06	17:42	12.18	0.0	0.0	5.8	155.0	146	0	
2005-Mar-06	17:43	12.38	0.0	0.0	6.0	158.8	165	0	
2005-Mar-06	17:44	12.44	0.0	0.0	5.6	162.6	142	0	
2005-Mar-06	17:44	12.02	0.0	0.0	5.4	166.3	146	0	
2005-Mar-06	17:45	11.48	0.0	0.0	5.8	170.4	82	0	
2005-Mar-06	17:46	13.32	0.0	0.0	5.5	176.5	197	0	
2005-Mar-06	17:46	13.44	0.0	0.0	5.7	162.6	206	0	
2005-Mar-06	17:47	12.63	0.0	0.0	5.4	166.4	151	0	
2005-Mar-06	17:48	13.95	0.0	0.0	5.7	169.3	183	0	
2005-Mar-06	17:48								End Lead Slurry
2005-Mar-06	17:48	14.10	0.0	0.0	5.7	169.5	201	0	Reset Total, Vol = 170 bbl
2005-Mar-06	17:48								Start Mixing Tail Slurry
2005-Mar-06	17:48	14.23	0.0	0.0	5.7	0.2	201	0	
2005-Mar-06	17:48	14.56	0.0	0.0	5.7	0.7	215	0	
2005-Mar-06	17:48	15.47	0.0	0.0	5.6	4.4	243	0	
2005-Mar-06	17:49	14.79	0.0	0.0	5.7	8.2	211	0	
2005-Mar-06	17:50	14.38	0.0	0.0	5.7	12.0	169	0	
2005-Mar-06	17:50	14.67	0.0	0.0	5.8	15.8	179	0	

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Well		Field			Service Date		Customer		Job Number	
COLE 'B' #2					0585-Mar-06		OXY USA, INC.		2205547824	
Date	Time	Density	Rate	Volume	Flowmeter	FlowmeterTot	CMT TREAT	0	Message	
	24 hr clock	lb/gal	bbl/min	bbl	bbl/min	bbl	psi	0	KCC	
2005-Mar-06	17:51	14.76	0.0	0.0	5.7	19.6	183	0	JUN 30 2005	
2005-Mar-06	17:52	14.60	0.0	0.0	5.6	23.4	160	0	CONFIDENTIAL	
2005-Mar-06	17:52	14.57	0.0	0.0	5.7	27.2	165	0		
2005-Mar-06	17:53	14.66	0.0	0.0	4.3	30.9	110	0		
2005-Mar-06	17:54	14.94	0.0	0.0	5.7	33.8	183	0		
2005-Mar-06	17:54	14.96	0.0	0.0	5.7	37.6	197	0		
2005-Mar-06	17:55	14.89	0.0	0.0	5.8	41.4	174	0		
2005-Mar-06	17:56	14.87	0.0	0.0	5.8	45.3	179	0		
2005-Mar-06	17:56	15.06	0.0	0.0	4.2	48.4	119	0		
2005-Mar-06	17:56	15.00	0.0	0.0	2.3	48.8	5	0		
2005-Mar-06	17:56								End Tail Slurry	
2005-Mar-06	17:57								Reset Total, Vol = 49 bbl	
2005-Mar-06	17:57	14.70	0.0	0.0	0.0	48.9	5	0		
2005-Mar-06	17:57								Drop Top Plug	
2005-Mar-06	17:57	13.47	0.0	0.0	0.6	0.0	5	0		
2005-Mar-06	17:57								Start Displacement	
2005-Mar-06	17:57	13.55	0.0	0.0	0.6	0.0	5	0		
2005-Mar-06	17:57	10.39	0.0	0.0	4.8	1.2	0	0		
2005-Mar-06	17:58	9.56	0.0	0.0	3.3	4.5	5	0		
2005-Mar-06	17:58	9.59	0.0	0.0	0.2	4.7	5	0		
2005-Mar-06	17:59	9.54	0.0	0.0	0.3	4.8	5	0		
2005-Mar-06	18:00	9.50	0.0	0.0	0.3	5.1	5	0		
2005-Mar-06	18:00	9.47	0.0	0.0	0.4	5.3	5	0		
2005-Mar-06	18:01	9.45	0.0	0.0	0.3	5.5	5	0		
2005-Mar-06	18:02	9.43	0.0	0.0	0.4	5.8	5	0		
2005-Mar-06	18:02	9.43	0.0	0.0	0.4	6.0	5	0		
2005-Mar-06	18:03	9.93	1.4	0.3	2.6	6.6	37	0		
2005-Mar-06	18:04	8.92	2.2	1.8	5.8	10.1	69	0		
2005-Mar-06	18:04	8.41	2.2	3.3	5.9	14.8	50	0		
2005-Mar-06	18:05	8.33	2.2	4.8	5.8	18.7	69	0		
2005-Mar-06	18:06	8.33	2.2	6.3	0.3	20.4	114	0		
2005-Mar-06	18:06	8.34	5.2	18.3	6.6	17.5	124	0		
2005-Mar-06	18:07	8.34	5.2	21.6	6.4	21.8	146	0		
2005-Mar-06	18:08	8.34	5.2	25.1	6.4	26.1	174	0		
2005-Mar-06	18:08	8.34	5.2	28.7	6.5	30.5	183	0	RECEIVED	
2005-Mar-06	18:09	8.34	5.2	32.1	6.4	34.8	266	0	JUL 01 2005	
2005-Mar-06	18:10	8.34	5.2	35.6	6.4	39.0	233	0	KCC WICHITA	
2005-Mar-06	18:10	8.34	5.2	39.1	6.5	43.3	325	0		
2005-Mar-06	18:11	8.34	5.2	42.6	6.4	47.6	275	0		
2005-Mar-06	18:12	8.34	1.8	45.8	2.9	51.7	224	0		
2005-Mar-06	18:12	8.34	1.9	47.1	2.5	53.3	197	0		
2005-Mar-06	18:13	8.34	1.8	48.3	2.5	55.0	233	0		
2005-Mar-06	18:14	8.34	1.9	49.5	2.5	56.7	316	0		
2005-Mar-06	18:14	8.34	1.7	50.7	2.4	58.3	311	0		
2005-Mar-06	18:15	8.34	1.8	51.9	2.4	60.0	256	0		
2005-Mar-06	18:16	8.34	1.8	53.1	2.4	61.6	279	0		
2005-Mar-06	18:16	8.34	1.7	54.2	2.4	63.2	261	0		
2005-Mar-06	18:17	8.34	0.0	55.4	1.5	64.7	536	0		
2005-Mar-06	18:18								Bump Top Plug	
2005-Mar-06	18:18	8.34	0.0	55.4	0.2	64.9	641	0		
2005-Mar-06	18:18								End Displacement	
2005-Mar-06	18:18	8.34	0.0	55.4	0.2	64.9	641	0		
2005-Mar-06	18:18	8.34	0.0	55.4	0.3	64.9	641	0		
2005-Mar-06	18:18								Reset Total, Vol = 58.4 bbl	

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Well		Field		Service Date		Customer		Job Number		
COLE 'B' #2				0565-Mar-06		OXY USA, INC.		2205547824		
Date	Time	Density	Rate	Volume	Flowmeter	Flowmeter Total Vol	CMT TREAT PRES	0	Message	
	24 hr clock	lb/gal	bbt/min	bbt	bbt/min	bbt	psi	0		
2005-Mar-06	18:18	8.34	0.0	0.0	0.3	0.0	641	0	<b>KCC</b> <b>JUN 30 2005</b> <b>CONFIDENTIAL</b>	
2005-Mar-06	18:18	8.34	0.0	0.0	0.2	0.2	183	0		
2005-Mar-06	18:19	8.34	0.0	0.0	0.3	0.4	197	0		
2005-Mar-06	18:20	8.34	1.1	0.4	0.2	0.5	325	0		
2005-Mar-06	18:20	8.34	0.7	1.0	0.3	0.7	357	0		
2005-Mar-06	18:21	8.34	0.0	1.1	0.3	0.9	211	0		
2005-Mar-06	18:22	8.34	0.7	1.2	0.3	1.0	252	0		
2005-Mar-06	18:22	8.34	0.7	1.4	0.2	1.1	293	0		
2005-Mar-06	18:22									Plug did not hold tried prssuring up once more
2005-Mar-06	18:22	8.34	0.7	1.5	0.3	1.1	320	0		
2005-Mar-06	18:22								Pressure up to 500 psi and shut in	
2005-Mar-06	18:22	8.34	0.0	1.6	0.3	1.2	439	0		
2005-Mar-06	18:23	8.34	0.0	1.6	0.3	1.4	444	0		
2005-Mar-06	18:23								End Job	
2005-Mar-06	18:23	8.34	0.0	1.6	0.3	1.4	439	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		215	0	10			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density				
530		150	530			8.34 lb/gal				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	120	bbl		
%	215 bbl	58.4 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft			
Customer or Authorized Representative			Schlumberger Supervisor							
Willimon, Wes			Tan, Naveen			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		

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Schlumberger

Date	3/6/2005
Company	Oxy USA Inc.
Job Number	2205547824
Well Name	Cole
Well Number	B-2
County	Seward
State	Kansas

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	968.61	
Shoe Length	52.41	
Insert Depth	916.2	
Hole Size	12 1/4	
Hole Depth	969	

Lead	
430 sacks	35:65 Poz C
2.19 yield	D20,S1,D29
12.2 weight	
12.4 water	127
cubic ft.	942
height	2282
bbls	168

yh	
Pipe Volume	62
133 Annular Volume	71
Total Cement	214
Total Water	215

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

Tail	
195 sacks	Class C
1.34 yield	S1,D29
14.8 weight	
6.35 water	29
cubic ft.	261
height	633
bbls	46.5

Casing lift	398
Cement lift	263

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Test 1500

Mud

10 Spacer

168 Lead 12.2

47 Tail 14.8

58.4 Displacement

2000 Maximum Pressure

Pump time @ 4 BPM

68 MIN

3rd System	
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

**Schlumberger**

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**Cementing Service Report**

**ORIGINAL**

Customer <b>OXY USA, INC.</b>	<b>KCC</b>	Job Number <b>2205547997</b>
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Well <b>COLE 'B' 2</b>	Location (legal) <b>JUN 30 2005</b>	Schlumberger Location <b>Perryton, TX</b>	Job Start <b>2005-Apr-05</b>
---------------------------	--	--	---------------------------------

Field <b>SEWARD</b>	Formation Name/Type <b>KANSAS</b>	Deviation	Bit Size <b>7.88 in</b>	Well MD <b>2,780 ft</b>	Well TVD <b>2,780 ft</b>
------------------------	--------------------------------------	-----------	----------------------------	----------------------------	-----------------------------

County <b>SEWARD</b>	State/Province <b>KANSAS</b>	BHP <b>psi</b>	BHST <b>108 °F</b>	BHCT <b>°F</b>	Pore Press. Gradient <b>psi/ft</b>
-------------------------	---------------------------------	-------------------	-----------------------	-------------------	---------------------------------------

Well Master: <b>0630670235</b>	API / UWI:	Casing/Liner			
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Rig Name <b>Workover Unit</b>	Drilled For <b>Gas</b>	Service Via <b>Land</b>	Depth, ft <b>2780</b>	Size, in <b>4.5</b>	Weight, lb/ft <b>11.6</b>	Grade	Thread
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Offshore Zone	Well Class <b>New</b>	Well Type <b>Development</b>	Tubing/Drill Pipe				
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Drilling Fluid Type	Max. Density <b>lb/gal</b>	Plastic Vt: cp	Depth, <b>2660</b>	Size, in <b>2.375</b>	Weight, lb/ft <b>4.7</b>	Grade	Thread <b>8RD</b>
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Service Line <b>Cementing</b>	Job Type <b>BlkSqz Rpr Prod. Casing</b>	Perforations/Open Hole				
----------------------------------	--	------------------------	--	--	--	--

Max. Allowed Tubing Pressure <b>1500 psi</b>	Max. Allowed Ann. Pressure <b>psi</b>	WellHead Connection <b>2 3/8" &amp; 2" REG</b>	Top, ft <b>2700</b>	Bottom, ft <b>2701</b>	spf	No. of Shots	Total Interval <b>ft</b>
---	--	---	------------------------	---------------------------	-----	--------------	-----------------------------

Service Instructions <b>Squeeze under a retainer thru 2 3/8 tubing with:</b>		Diameter <b>in</b>	
<b>100 sks Class H Neat</b>		Treat Down <b>Tubing</b>	Packer Depth <b>2660 ft</b>
		Displacement <b>11 bbl</b>	Packer Type
		Tubing Vol. <b>10.3 bbl</b>	OpenHole Vol <b>bbl</b>
		Casing Vol. <b>0.7 bbl</b>	Annular Vol. <b>bbl</b>

Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Casing Tools	Squeeze Job
--	--	--------------	-------------

Lift Pressure: <b>psi</b>	Shoe Type:	Squeeze Type:
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth: <b>ft</b>
No. Centralizers: <b>Top Plugs:</b>	Bottom Plugs:	Tool Type:

Cement Head Type: <b>Single</b>	Stage Tool Type:	Tool Depth: <b>ft</b>
Job Scheduled For: <b>2005-Apr-05 8:00</b>	Arrived on Location: <b>2005-Apr-05 12:00</b>	Leave Location:
Collar Type:	Stage Tool Depth: <b>ft</b>	Tail Pipe Size: <b>in</b>
Collar Depth: <b>ft</b>	Tail Pipe Depth: <b>ft</b>	Sqz Total Vol: <b>bbl</b>

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-Apr-05	9:30	0	0.0	0.0	8.31	0.0	0.0	0	
2005-Apr-05	9:30	0	0.0	0.0	8.32	0.0	0.0	0	
2005-Apr-05	9:30								
2005-Apr-05	9:31	0	0.0	0.0	8.31	0.0	0.0	0	Start Job
2005-Apr-05	9:32	5	0.0	0.0	8.31	0.0	0.1	0	
2005-Apr-05	9:32	9	0.0	0.0	8.32	0.1	0.1	0	
2005-Apr-05	9:33	1849	0.0	0.2	8.31	0.0	0.3	0	
2005-Apr-05	9:33	1730	0.0	0.2	8.32	0.0	0.3	0	
2005-Apr-05	9:34	55	0.0	0.2	8.31	0.0	0.3	0	
2005-Apr-05	9:34	160	0.0	0.2	8.32	0.0	0.3	0	
2005-Apr-05	9:35	165	0.0	0.2	8.32	0.1	0.3	0	
2005-Apr-05	9:35	435	0.2	0.2	8.32	0.3	0.4	0	
2005-Apr-05	9:35								load annulas
2005-Apr-05	9:35	526	0.0	0.2	8.31	0.0	0.5	0	
2005-Apr-05	9:36	517	0.0	0.2	8.31	0.0	0.5	0	
2005-Apr-05	9:37	435	0.0	0.2	8.31	0.0	0.5	0	
2005-Apr-05	9:37	32	0.0	0.2	8.32	0.0	0.5	0	
2005-Apr-05	9:38	37	0.0	0.2	8.31	0.0	0.5	0	
2005-Apr-05	9:38	96	0.0	0.3	8.31	0.0	0.5	0	
2005-Apr-05	9:39	0	0.0	0.3	8.31	0.0	0.5	0	
2005-Apr-05	9:40	14	0.2	0.3	8.31	0.3	0.6	0	
2005-Apr-05	9:41	526	0.0	0.4	8.32	0.0	0.7	0	

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Well		Field			Service Date		Customer		Job Number	
COLE 'B' #2					0595-Apr-05		OXY USA, INC.		2205547987	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbf/min	bbf	lb/gal	bbf/min	bbf	0		
2005-Apr-05	9:41	0	0.0	0.4	8.31	0.0	0.7	0	KCC JUN 3 0 2005 CONFIDENTIAL	
2005-Apr-05	9:43	0	0.0	0.4	8.31	0.1	0.7	0		
2005-Apr-05	9:44	5	0.7	0.7	8.31	1.7	1.3	0		
2005-Apr-05	9:44	5	1.5	1.3	8.31	1.8	2.2	0		
2005-Apr-05	9:45	5	1.5	2.1	8.31	1.8	3.1	0		
2005-Apr-05	9:45									Start Pumping Water
2005-Apr-05	9:45	5	1.5	2.7	8.31	1.8	3.8	0		
2005-Apr-05	9:45	5	1.5	2.8	8.31	1.8	4.0	0		
2005-Apr-05	9:46	5	1.5	3.6	8.31	1.7	4.8	0		
2005-Apr-05	9:46	5	1.5	4.3	8.31	1.7	5.7	0		
2005-Apr-05	9:47	5	1.5	5.1	8.31	1.7	6.6	0		
2005-Apr-05	9:47	5	1.5	5.8	8.31	1.7	7.4	0		
2005-Apr-05	9:48	5	1.5	6.5	8.31	1.7	8.3	0		
2005-Apr-05	9:48	458	1.5	7.3	8.31	1.5	9.1	0		
2005-Apr-05	9:49	394	1.5	8.0	8.31	1.5	9.8	0		
2005-Apr-05	9:49	330	1.5	8.8	8.32	1.5	10.6	0		
2005-Apr-05	9:50	279	1.5	9.5	8.31	1.5	11.3	0		
2005-Apr-05	9:50	334	1.5	10.3	8.31	1.5	12.1	0		
2005-Apr-05	9:51	302	1.5	11.0	8.27	1.5	13.1	0		
2005-Apr-05	9:51	279	1.5	11.8	8.22	1.4	13.8	0		
2005-Apr-05	9:52	284	1.5	12.5	10.79	1.6	14.5	0		
2005-Apr-05	9:52	256	1.5	13.3	14.31	1.5	15.3	0		
2005-Apr-05	9:53	220	1.5	14.0	15.33	1.2	16.0	0		
2005-Apr-05	9:53	197	1.5	14.7	15.21	1.4	16.7	0		
2005-Apr-05	9:54	160	1.5	15.5	15.32	1.5	17.5	0		
2005-Apr-05	9:54	151	1.5	16.2	13.88	1.5	18.2	0		
2005-Apr-05	9:55	101	1.5	17.0	12.92	1.4	19.0	0		
2005-Apr-05	9:55	92	1.5	17.7	13.73	1.8	19.8	0		
2005-Apr-05	9:56	87	1.5	18.5	15.65	1.9	20.8	0		
2005-Apr-05	9:56	73	1.5	19.2	14.50	2.0	21.7	0		
2005-Apr-05	9:57	87	1.5	20.0	14.54	2.2	22.8	0		
2005-Apr-05	9:57	110	1.5	20.7	14.62	2.6	24.0	0		
2005-Apr-05	9:58	5	0.0	20.8	14.49	0.0	24.2	0		
2005-Apr-05	9:59	288	0.0	20.8	11.66	2.3	24.5	0		
2005-Apr-05	9:59	87	0.0	20.8	8.31	1.9	26.0	0		
2005-Apr-05	10:00	412	0.0	20.8	8.31	5.9	27.5	0		
2005-Apr-05	10:00	439	0.0	20.8	8.80	4.3	30.3	0		
2005-Apr-05	10:01	458	0.0	20.8	8.43	4.2	32.5	0		
2005-Apr-05	10:01	385	0.0	20.8	8.28	1.1	33.3	0		
2005-Apr-05	10:02	64	0.0	20.8	8.31	0.0	35.1	0		
2005-Apr-05	10:02	-5	0.0	20.8	8.31	0.1	35.1	0		
2005-Apr-05	10:03	5	0.0	20.8	8.28	1.1	35.1	0		
2005-Apr-05	10:03	5	0.0	20.8	8.31	1.3	35.8	0		
2005-Apr-05	10:04	5	0.0	20.8	8.31	1.3	36.4	0		
2005-Apr-05	10:04	9	0.0	20.8	8.31	0.0	36.7	0		
2005-Apr-05	10:05								Reset Total, Vol = 20.86 bbl	
2005-Apr-05	10:05	444	0.2	20.9	8.31	0.2	36.7	0	Start Displacement	
2005-Apr-05	10:05	806	0.2	20.9	8.31	0.2	36.7	0		
2005-Apr-05	10:05	1140	0.2	20.9	8.31	0.2	36.7	0		
2005-Apr-05	10:05	549	0.0	20.9	8.31	0.0	36.9	0		
2005-Apr-05	10:06	357	0.0	20.9	8.31	0.0	36.9	0		
2005-Apr-05	10:06	925	0.2	20.9	8.31	0.2	36.9	0		
2005-Apr-05	10:07	929	0.0	20.9	8.31	0.0	37.0	0		

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Well		Field			Service Date		Customer		Job Number	
COLE 'B' #2		CONFIDENTIAL			0595-Apr-05		OXY USA, INC.		2205547987	
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-Apr-05	10:07	764	0.0	20.9	8.31	0.0	37.0	0		
2005-Apr-05	10:08	1492	0.2	21.0	8.31	0.2	37.1	0	KCC JUN 30 2005 CONFIDENTIAL	
2005-Apr-05	10:08	1332	0.0	21.0	8.31	0.0	37.1	0		
2005-Apr-05	10:09	1144	0.0	21.0	8.31	0.0	37.1	0		
2005-Apr-05	10:09	1035	0.0	21.0	8.31	0.0	37.1	0		
2005-Apr-05	10:10	989	0.0	21.0	8.31	0.0	37.1	0		
2005-Apr-05	10:10	961	0.0	21.0	8.31	0.0	37.1	0		
2005-Apr-05	10:11	1721	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:11	1602	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:12	1561	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:12	1534	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:13	1511	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:13	1488	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:14	1465	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:14	1442	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:15	1419	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:15	1401	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:16	1382	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:16	1360	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:17	1341	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:17	1323	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:18	1305	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:18	1286	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:19	1273	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:19	1254	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:20	1236	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:20	1218	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:21	1204	0.0	21.0	8.31	0.0	37.3	0		
2005-Apr-05	10:21	1785	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:22	1694	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:22	1634	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:23	1602	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:23	1579	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:24	1552	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:24	1529	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:25	1506	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:25	1488	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:26	1465	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:26	1447	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:27	1428	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:27	1804	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:28	23	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:29	673	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:30								End Displacement	
2005-Apr-05	10:30	677	0.0	21.0	8.31	0.0	37.4	0		
2005-Apr-05	10:31	677	0.0	0.0	8.31	0.0	0.0	0		
2005-Apr-05	10:32	1204	0.3	0.1	8.31	0.4	0.1	0		
2005-Apr-05	10:33	1208	0.5	0.3	8.31	0.5	0.2	0		
2005-Apr-05	10:33	1176	0.5	0.5	8.31	0.5	0.5	0		
2005-Apr-05	10:34	1140	0.5	0.8	8.31	0.5	0.8	0		
2005-Apr-05	10:34								Start Rev. Circulation	
2005-Apr-05	10:34	1144	0.5	1.0	8.31	0.5	0.9	0		
2005-Apr-05	10:34	1154	0.5	1.1	8.31	0.5	1.0	0		
2005-Apr-05	10:35	1167	1.0	1.4	8.31	0.9	1.3	0		

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Well		Field			Service Date		Customer		Job Number	
COLE 'B' #2					0595-Apr-05		OXY USA, INC.		2205547897	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbbl/min	bbbl	lb/gal	bbbl/min	bbbl	0		
2005-Apr-05	10:35	1181	1.0	1.8	8.31	0.9	1.8	0	<div style="font-size: 2em; font-weight: bold;">KCC</div> <div style="font-size: 1.5em; font-weight: bold;">JUN 30 2005</div> <div style="font-size: 2em; font-weight: bold; opacity: 0.5;">CONFIDENTIAL</div>	
2005-Apr-05	10:36	1140	0.9	2.3	8.31	0.9	2.2	0		
2005-Apr-05	10:36	1108	1.0	2.8	8.31	0.9	2.7	0		
2005-Apr-05	10:37	1035	1.0	3.3	8.31	0.9	3.2	0		
2005-Apr-05	10:37	970	1.0	3.8	8.31	0.9	3.6	0		
2005-Apr-05	10:38	916	1.1	4.3	8.31	1.1	4.1	0		
2005-Apr-05	10:38	961	1.8	5.0	8.31	1.8	4.8	0		
2005-Apr-05	10:39	888	2.1	6.0	8.31	2.1	5.8	0		
2005-Apr-05	10:39	778	2.1	7.1	8.31	2.1	6.9	0		
2005-Apr-05	10:40	677	2.1	8.1	8.31	2.1	7.9	0		
2005-Apr-05	10:40	540	2.1	9.2	8.31	2.1	8.9	0		
2005-Apr-05	10:41	398	2.1	10.3	8.31	2.1	10.0	0		
2005-Apr-05	10:41	311	2.1	11.3	8.31	2.1	11.0	0		
2005-Apr-05	10:42	320	2.1	12.4	8.31	2.1	12.1	0		
2005-Apr-05	10:42	307	2.1	13.5	8.31	2.1	13.1	0		
2005-Apr-05	10:43	316	2.1	14.5	8.31	2.1	14.2	0		
2005-Apr-05	10:43	320	2.1	15.6	8.31	2.1	15.2	0		
2005-Apr-05	10:44	307	2.1	16.6	8.31	2.1	16.3	0		
2005-Apr-05	10:44	302	2.1	17.7	8.31	2.1	17.3	0		
2005-Apr-05	10:45	311	2.1	18.8	8.31	2.1	18.4	0		
2005-Apr-05	10:45	311	2.1	19.8	8.31	2.1	19.4	0		
2005-Apr-05	10:46	302	2.1	20.9	8.31	2.1	20.5	0		
2005-Apr-05	10:46	5	0.0	21.3	8.31	0.0	20.9	0		
2005-Apr-05	10:47	9	0.0	21.3	8.31	0.0	20.9	0		
2005-Apr-05	10:47								End Rev. Circulation	
2005-Apr-05	10:47								Reset Total, Vol = 21.31 bbl	
2005-Apr-05	10:47	14	0.0	21.3	8.31	0.0	20.9	0		
2005-Apr-05	10:47								End Job	
2005-Apr-05	10:47	27	0.0	0.0	8.31	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		
1			1.5	9.7		11			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
					bbbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Washed Thru Perfs		
%	9.4 bbl		2 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			Ahrends, Timothy						

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Well		Location (legal)		Schlumberger Location		Job Start		
COLE 'B' 2		Sec 29-T33S-R33W		Perryton, TX		2005-Mar-08		
Field		Formation Name/Type		Deviation		Well MD		
				7.88 in		2,836 ft		
County		State/Province		BHP		BHT		
Seward		Kansas		psi		109 °F		
Well Master:		API / UWI:		Casing/Liner				
0630670235		15175219690000						
Rig Name		Drilled For		Service Via		Depth, ft		
CHEYENNE 8		Gas		Land		2836		
Offshore Zone		Well Class		Well Type		Size, in		
		New		Development		4.5		
Drilling Fluid Type		Max. Density		Plastic Viscosity		Weight, lb/ft		
Bentonite		9.3 lb/gal		33		10.5		
Service Line		Job Type		Tubing/Drill Pipe				
Cementing		Cem Prod Casing						
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Well Head Connection		Depth, ft		
2000 psi		psi		4 1/2" H & SM		Size, in		
Service Instructions						Weight, lb/ft		
CEMENT PROD 4 1/2" CASING:						Grade		
20 BBLs CW/100						Thread		
140 SKS CLASS C + 3% D079 + 0.2% D046 + 0.25 PPS D029								
175 SKS 50/50 Poz:H+2%D20+3%M117+ 5 PPSD42+5 PPS D53+0.6								
%D112+ 0.25 %D65 + 0.25%D46								
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure: 430 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Auto-Fill		
						Shoe Depth: 2793.84 ft		
No. Centralizers: Top Plugs: 1 Bottom Plugs: 1				Stage Tool Type:		Squeeze Type:		
Cement Head Type: Single				Stage Tool Depth: ft		Tool Type:		
Job Scheduled For: Arrived on Location: 2005-Mar-08 16:30		Leave Location: 2005-Mar-08 20:00		Collar Type:		Tool Depth: ft		
				Collar Depth: ft		Tail Pipe Size: in		
						Tail Pipe Depth: ft		
						Sqz Total Vol: bbl		
Date	Time	Density	Rate	Volume	CMIT TREAT PRES	Flowmeter	Flowmeter Total Vol	Message
	24 hr clock	lb/gal	bbl/min	bbl	psi	bbl/min	bbl	
2005-Mar-08	18:09							Start Job
2005-Mar-08	18:09	8.37	0.0	0.0	5	0.0	0.0	
2005-Mar-08	18:09							Pressure Test Lines
2005-Mar-08	18:09	8.37	0.0	0.0	5	0.0	0.0	
2005-Mar-08	18:09	8.37	0.0	0.0	5	0.0	0.0	
2005-Mar-08	18:09							Start Pumping Wash
2005-Mar-08	18:10	8.37	0.0	0.0	5	0.0	0.0	
2005-Mar-08	18:10	8.37	0.0	0.0	5	0.0	0.0	
2005-Mar-08	18:11	8.37	0.0	0.0	37	2.0	0.1	
2005-Mar-08	18:12	8.37	0.0	0.0	41	0.0	0.7	
2005-Mar-08	18:12	8.37	0.0	0.2	1712	0.0	0.8	
2005-Mar-08	18:13	8.37	0.0	0.2	23	0.0	0.8	
2005-Mar-08	18:14	8.37	0.0	0.2	14	0.0	0.8	
2005-Mar-08	18:14	8.37	1.2	0.2	61	1.0	1.0	
2005-Mar-08	18:15	8.38	5.6	2.1	192	5.4	2.7	
2005-Mar-08	18:16	8.38	5.8	5.9	220	5.9	6.5	
2005-Mar-08	18:16	8.48	5.8	9.8	201	5.9	10.5	
2005-Mar-08	18:17	8.38	5.9	13.7	201	6.0	14.5	
2005-Mar-08	18:18	8.40	6.0	17.6	206	6.0	18.4	
2005-Mar-08	18:18	8.49	6.0	21.6	206	6.1	22.5	
2005-Mar-08	18:19	8.79	6.0	23.7	211	6.1	24.6	
2005-Mar-08	18:19							End Wash

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Well		Field			Service Date		Customer			Job Number
COLE 'B' #2					0567-Mar-08		OXY USA, INC.			20554174
Date	Time	Density	Rate	Volume	CMT TREAT PRES	Flowmeter	Flowmeter Total Vol	0	Message	
	24 hr clock	lb/gal	bbf/min	bbf	psi	bbf/min	bbf	0		
2005-Mar-08	18:19								Reset Total, Vol = 0.00 bbl	
2005-Mar-08	18:19								Reset Total, Vol = 23.99 bbl	
2005-Mar-08	18:19	8.99	5.9	24.0	211	6.1	24.9	0		
2005-Mar-08	18:19	9.11	6.0	0.2	211	6.1	0.2	0		
2005-Mar-08	18:19								Start Mixing Lead Slurry	
2005-Mar-08	18:19	9.76	6.0	1.6	229	6.1	1.6	0		
2005-Mar-08	18:20	10.82	6.0	5.6	238	6.1	5.7	0		
2005-Mar-08	18:20	10.97	6.1	9.6	220	6.2	9.8	0		
2005-Mar-08	18:21	11.03	6.1	13.7	206	6.2	13.9	0		
2005-Mar-08	18:22	11.01	6.1	17.9	183	6.2	18.1	0		
2005-Mar-08	18:22	10.99	6.1	21.9	160	6.3	22.3	0		
2005-Mar-08	18:23	10.90	6.1	26.0	137	6.2	26.4	0		
2005-Mar-08	18:24	10.92	6.1	30.1	137	6.3	30.6	0		
2005-Mar-08	18:24	11.05	6.4	34.1	233	6.5	34.6	0		
2005-Mar-08	18:25	10.99	6.2	38.3	142	6.4	38.8	0		
2005-Mar-08	18:26	10.91	6.2	42.4	146	6.4	43.1	0		
2005-Mar-08	18:26	11.47	6.1	46.5	151	6.3	47.3	0		
2005-Mar-08	18:27	11.61	6.3	50.7	156	6.4	51.5	0		
2005-Mar-08	18:28	11.39	6.2	54.8	151	6.3	55.8	0		
2005-Mar-08	18:28	10.94	6.2	58.9	142	6.3	60.0	0		
2005-Mar-08	18:29	10.84	6.2	63.1	133	6.4	64.2	0		
2005-Mar-08	18:30	11.03	6.2	67.2	137	6.3	68.4	0		
2005-Mar-08	18:30	11.12	6.2	71.3	146	6.4	72.6	0		
2005-Mar-08	18:31	10.92	6.2	75.5	142	6.3	76.8	0		
2005-Mar-08	18:32	11.43	6.2	79.6	146	6.1	80.9	0		
2005-Mar-08	18:32	11.72	6.2	82.0	151	6.0	83.3	0		
2005-Mar-08	18:32								End Lead Slurry	
2005-Mar-08	18:32								Reset Total, Vol = 82.28 bbl	
2005-Mar-08	18:32	11.76	6.2	82.3	156	6.0	83.6	0		
2005-Mar-08	18:32	11.79	6.2	0.3	160	6.0	0.3	0		
2005-Mar-08	18:32								Start Mixing Tail Slurry	
2005-Mar-08	18:32	12.18	6.2	1.4	160	6.0	1.4	0		
2005-Mar-08	18:33	12.69	6.2	5.6	183	5.9	5.5	0		
2005-Mar-08	18:34	12.99	6.2	9.7	206	6.0	9.5	0		
2005-Mar-08	18:34	13.46	4.9	13.0	142	4.5	12.7	0		
2005-Mar-08	18:35	13.97	4.9	16.2	174	4.7	15.8	0		
2005-Mar-08	18:36	13.85	5.8	19.8	215	5.6	19.1	0		
2005-Mar-08	18:36	13.84	5.8	23.6	224	5.6	22.9	0		
2005-Mar-08	18:37	13.91	5.8	27.5	229	5.6	26.6	0		
2005-Mar-08	18:38	13.77	5.8	31.3	229	5.7	30.4	0		
2005-Mar-08	18:38	13.78	5.8	35.2	233	5.7	34.1	0		
2005-Mar-08	18:39	13.84	5.8	39.0	238	5.5	37.9	0		
2005-Mar-08	18:40	13.85	5.8	42.9	238	5.6	41.6	0		
2005-Mar-08	18:40	14.33	5.8	46.7	256	5.7	45.4	0		
2005-Mar-08	18:41								End Tail Slurry	
2005-Mar-08	18:41								Start Mixing Tail Slurry	
2005-Mar-08	18:41	14.88	0.0	48.7	50	0.9	47.3	0		
2005-Mar-08	18:41	14.88	0.0	48.7	9	0.4	47.3	0		
2005-Mar-08	18:41								Reset Total, Vol = 48.67 bbl	
2005-Mar-08	18:41	14.88	0.0	0.0	5	0.3	0.0	0		
2005-Mar-08	18:41								Drop Top Plug	
2005-Mar-08	18:41								Start Displacement	
2005-Mar-08	18:41	14.88	0.0	0.0	9	0.1	0.0	0		
2005-Mar-08	18:42	14.88	0.0	0.0	0	0.0	0.0	0		

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Well		Field			Service Date		Customer		Job Number	
COLE 'B' #2					0567-Mar-08		OXY USA, INC.		2205547748	
Date	Time	Density	Rate	Volume	CMT TREAT PRES	Flowmeter	FlowmeterTot afVol	0	Message	
	24 hr clock	lb/gal	bbf/min	bbf	psi	bbf/min	bbf	0		
2005-Mar-08	18:42	14.88	0.0	0.0	0	0.0	0.0	0	KCC JUN 3 0 2005 CONFIDENTIAL	
2005-Mar-08	18:43	13.75	0.0	0.0	9	0.0	0.0	0		
2005-Mar-08	18:44	10.88	2.5	0.0	46	1.6	0.8	0		
2005-Mar-08	18:44	10.53	2.5	0.0	32	1.7	2.0	0		
2005-Mar-08	18:45	10.12	3.0	0.0	41	1.7	3.3	0		
2005-Mar-08	18:46	10.22	6.4	0.0	284	5.7	6.5	0		
2005-Mar-08	18:46	8.93	4.8	0.0	151	5.0	9.2	0		
2005-Mar-08	18:47	8.44	4.8	0.0	156	4.7	12.5	0		
2005-Mar-08	18:48	8.41	0.0	0.0	5	0.0	14.7	0		
2005-Mar-08	18:48	8.41	0.0	0.0	5	0.0	14.7	0		
2005-Mar-08	18:49	8.38	4.9	1.2	55	4.9	16.3	0		
2005-Mar-08	18:50	8.38	4.9	4.5	55	5.0	19.6	0		
2005-Mar-08	18:50	8.38	4.9	7.7	55	5.1	23.0	0		
2005-Mar-08	18:51	8.38	4.9	11.0	55	5.1	26.4	0		
2005-Mar-08	18:52	8.38	4.9	14.2	55	5.1	14.4	0		
2005-Mar-08	18:52	8.38	4.9	17.5	55	5.1	17.8	0		
2005-Mar-08	18:53	8.38	5.0	20.7	133	5.0	21.2	0		
2005-Mar-08	18:54	8.38	4.9	24.0	165	5.0	24.5	0		
2005-Mar-08	18:54	8.38	5.0	27.4	229	5.0	27.9	0		
2005-Mar-08	18:55	8.38	5.0	30.7	284	4.9	31.2	0		
2005-Mar-08	18:56	8.38	5.0	34.0	357	5.0	34.5	0		
2005-Mar-08	18:56	8.38	2.1	36.5	320	2.1	37.2	0		
2005-Mar-08	18:57	8.38	2.1	37.9	330	2.1	38.6	0		
2005-Mar-08	18:58	8.38	2.1	39.3	380	2.2	40.1	0		
2005-Mar-08	18:58	8.38	2.1	40.8	398	2.1	41.5	0		
2005-Mar-08	18:59	8.38	2.1	42.2	421	2.1	42.9	0		
2005-Mar-08	19:00	8.38	2.1	43.6	485	2.1	44.3	0		
2005-Mar-08	19:00	8.38	0.0	43.6	769	0.0	44.4	0		
2005-Mar-08	19:01	8.38	0.0	43.7	993	0.0	44.4	0		
2005-Mar-08	19:01								Bump Top Plug	
2005-Mar-08	19:01	8.38	0.0	43.7	993	0.0	44.4	0		
2005-Mar-08	19:01								End Displacement	
2005-Mar-08	19:01	8.38	0.0	43.7	993	0.0	44.4	0		
2005-Mar-08	19:01								Reset Total, Vol = 44.4 bbl	
2005-Mar-08	19:01	8.38	0.0	43.7	993	0.0	44.4	0		
2005-Mar-08	19:02	8.38	0.0	0.0	0	0.0	0.0	0		
2005-Mar-08	19:02								End Job	
2005-Mar-08	19:02	8.38	0.0	0.0	5	0.0	0.0	0		

**Post Job Summary**

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.5			6.2	130	0	20	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density	
980		230	980			8.34 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			
%	130 bbl	44.4 bbl	°F				
Customer or Authorized Representative			Schlumberger Supervisor		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Fillpot, Gregg			Gregg, Fillpot				

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Date	3/8/2005
Company	Oxy USA Inc.
Job Number	2205547748
Well Name	Cole
Well Number	B-2
County	Seward
State	KS

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	2837.56	0
Shoe Length	43.72	
Insert Depth	2793.84	
Hole Size	7 7/8	
Hole Depth	2836	

Lead	
140 sacks	Class C
3.3 yield	D79,D46,D29
11 weight	
20.3 water	67.8
cubic ft.	462
height	2028
bbls	82.3

160	Pipe Volume	45
	Annular Volume	115
	Total Cement	131
	Total Water	142

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

Tail	
175 sacks	50/50 POZ
1.55 yield	D46,D42,M117,D20,D65,D112,D53
13.8 weight	
7.1 water	30
cubic ft.	271
height	1191
bbls	48.3

Casing lift 1873  
Cement lift 669

Test 2000 psi

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

Mud

20 Spacer CW100

82 Lead 11

48 Tail 13.8

44.4 Displacement

2000 Maximum Pressure

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

Pump time @ 4 BPM

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