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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

Form ACO-1
September 1999

Form Must Be Typed

KCC WICHITA

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: ONEOK
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling Inc.
License: 5382
Wellsite Geologist: NA
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Re-Entry
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl, Cathodic, etc.)
If Workover/Re-entry: Old Well Info as follows:
Operator: OXY USA, Inc.
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. _____
11/12/03 11/14/03 11/21/03
Spud Date or Date Reached TD Completion Date or Recompletion Date

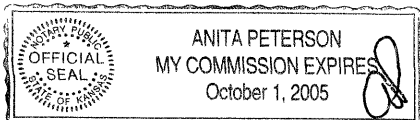
API No. 15 - 129-21719-0000
County: Morton
SE - SE - NW - NW Sec 20 Twp. 34 S. R. 40W
1250 feet from S Line of Section
1250 feet from E Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE SW
Lease Name: Miller M Well #: 3
Field Name: Hugoton
Producing Formation: Hugoton Chase
Elevation: Ground: 3374 Kelly Bushing: 3379
Total Depth: 2830 Plug Back Total Depth: 2784
Amount of Surface Pipe Set and Cemented at 482 feet
Multiple Stage Cementing Collar Used? Yes No
 Yes, show depth set _____
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Alc/ur 4-26-04
(Data must be collected from the Reserve Pit)
Chloride content 5000 ppm Fluid volume 800 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp, _____ S. R. East West
County: _____ Docket No.: _____

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

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

Signature: Vicki Carder
Title: Capital Project Date March 3, 2004
Subscribed and sworn to before me this 3rd day of Mar
20 04
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2005



KCC Office Use Only
 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: Miller M Well #: 3
 Sec. 20 Twp. 84 S. R. 40W East West County: Morton

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Neutron CBL-GR	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Hollenberg</td> <td>2419</td> <td>960</td> </tr> <tr> <td>Herington</td> <td>2452</td> <td>927</td> </tr> <tr> <td>Paddock</td> <td>2483</td> <td>896</td> </tr> <tr> <td>Krider</td> <td>2485</td> <td>894</td> </tr> <tr> <td>Winfield</td> <td>2529</td> <td>850</td> </tr> <tr> <td>Gage</td> <td>2574</td> <td>805</td> </tr> <tr> <td>Towanda</td> <td>2607</td> <td>772</td> </tr> </table>	Name	Top	Datum	Hollenberg	2419	960	Herington	2452	927	Paddock	2483	896	Krider	2485	894	Winfield	2529	850	Gage	2574	805	Towanda	2607	772
Name	Top	Datum																							
Hollenberg	2419	960																							
Herington	2452	927																							
Paddock	2483	896																							
Krider	2485	894																							
Winfield	2529	850																							
Gage	2574	805																							
Towanda	2607	772																							

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	482	C	100 100	Panhandle Lite + Additive Class C + Additives
Production	7 7/8	4 1/2	11.6	2829	C	220 220	Class C + Additives 50/50 Lite POZ

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	2511-2514, 2489-2502, 2476-2482, 2456-2462	Acidize-1000 gls 15% HCL Frac - 637 bbls 80Q WF130 N2	
4	2529-2535, 2550-2560, 2565-2574, 2602-2610, 2613-2626		

TUBING RECORD	Size 2 3/8	Set At 2676	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. 12/04/03	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf 150	Water Bbls 2	Gas-Oil Ratio	Gravity
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Disposition of Gas <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18)</i>	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____
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Schlumberger

Cementing Service Report

MAR 04 2004

ORIGINAL

Customer OXY USA, INC.	Location (legal) KCC	Schlumberger Location Perryton, TX	Job Number 2205544146
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Well MILLER M-3		Location (legal) KCC		Schlumberger Location Perryton, TX		Job Start 2003-Nov-12	
Field SEC 20-T34-R40W		Formation Name/Type MAR 03 2004		Deviation		Well TVD 500 ft	
County MORTON CO		State/Province KANSAS		BHP psi		Well MD 500 ft	
Well Master: 0630544099		API / UWI:		Casing/Liner			
Rig Name		Drilled For Oil & Gas		Service Via Land		Well TVD 500 ft	
Offshore Zone		Well Class New		Well Type Exploration		Pore Press. Gradient psi/ft	
Drilling Fluid Type		Max. Density lb/gal		Plastic Vi: cp		Casing/Liner	
Service Line Cementing		Job Type Cem Surface Casing		Depth, ft		Grade	
Max. Allowed Tubing Pressure 500 psi		Max. Allowed Ann. Pressure psi		WellHead Connection 8 5/8 HS&M		Thread	
Service Instructions CEMENT 8 5/8 IN SURFACE CASING WITH: 100 SKS (PANHANDLE LITE CLASS C) + 0.2%D46 + 0.25 PPS D29 100 SKS CLASS C + 2% S001 + 0.25 PPS D29		Max. Density lb/gal		Plastic Vi: cp		Casing/Liner	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Depth, ft		Grade	
Lift Pressure: 110 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Casing/Liner	
No. Centralizers: Top Plugs: 1		Bottom Plugs: 0		Depth, ft		Grade	
Cement Head Type: Single		Job Scheduled For: 11/12/2003		Arrived on Location: 2003-Nov-12 18:30		Leave Location: 2003-Nov-12	
Casing Tools		Squeeze Job		Depth, ft		Grade	
Shoe Type: Other		Squeeze Type		Depth, ft		Grade	
Shoe Depth: 474.87 ft		Tool Type:		Depth, ft		Grade	
Stage Tool Type:		Tool Depth:		Depth, ft		Grade	
Stage Tool Depth: ft		Tail Pipe Size: in		Depth, ft		Grade	
Collar Type: Float		Tail Pipe Depth: ft		Depth, ft		Grade	
Collar Depth: 431.51 ft		Sqz Total Vol: bbl		Depth, ft		Grade	

Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2003-Nov-12	20:13	0	8.44	0.0	0.0	0	0	0	
2003-Nov-12	20:13	0	8.44	0.0	0.0	0	0	0	
2003-Nov-12	20:13								Pressure Test Lines
2003-Nov-12	20:14	0	8.44	0.0	0.0	0	0	0	
2003-Nov-12	20:14	0	8.62	0.0	0.0	0	0	0	
2003-Nov-12	20:15	0	8.47	0.0	0.0	0	0	0	
2003-Nov-12	20:15	0	8.44	0.0	0.0	0	0	0	
2003-Nov-12	20:16	46	8.44	0.3	0.0	0	0	0	
2003-Nov-12	20:16	1025	8.44	0.0	0.2	0	0	0	
2003-Nov-12	20:17	938	8.44	0.0	0.2	0	0	0	
2003-Nov-12	20:17	41	8.38	0.0	0.2	0	0	0	
2003-Nov-12	20:18	41	8.38	0.0	0.2	0	0	0	
2003-Nov-12	20:18	41	8.35	2.9	0.8	0	0	0	
2003-Nov-12	20:19	96	8.36	4.7	2.7	0	0	0	
2003-Nov-12	20:19	96	8.38	4.7	5.0	0	0	0	
2003-Nov-12	20:19	105	8.52	4.7	6.4	0	0	0	
2003-Nov-12	20:19								Reset Total, Vol = 6.36 bbl
2003-Nov-12	20:19								Start Mixing Lead Slurry
2003-Nov-12	20:19	105	8.62	4.7	0.2	0	0	0	
2003-Nov-12	20:20	110	9.79	4.7	1.0	0	0	0	
2003-Nov-12	20:20	110	10.92	4.7	3.4	0	0	0	
2003-Nov-12	20:21	119	10.52	4.8	5.7	0	0	0	

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Well		Field				Service Date		Customer		Job Number
MILLER #M-3		SEC 20-T34-R40W				03316-Nov-12		OXY USA, INC.		2205544146
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbt/min	bbt	0	0	0		
2003-Nov-12	20:21	114	10.79	4.8	8.1	0	0	0	KCC MAR 03 2004 CONFIDENTIAL	
2003-Nov-12	20:22	114	11.22	4.8	10.5	0	0	0		
2003-Nov-12	20:22	119	11.73	4.8	12.9	0	0	0		
2003-Nov-12	20:23	119	11.76	4.9	15.3	0	0	0		
2003-Nov-12	20:23	114	11.36	4.8	17.8	0	0	0		
2003-Nov-12	20:24	110	11.02	4.9	20.2	0	0	0		
2003-Nov-12	20:24	110	11.11	4.9	22.6	0	0	0		
2003-Nov-12	20:25	105	11.50	4.9	25.1	0	0	0		
2003-Nov-12	20:25	101	11.47	4.9	27.6	0	0	0		
2003-Nov-12	20:26	96	11.50	4.9	30.1	0	0	0		
2003-Nov-12	20:26	92	11.37	4.9	32.5	0	0	0		
2003-Nov-12	20:27	92	11.27	4.9	35.0	0	0	0		
2003-Nov-12	20:27	92	11.24	5.0	37.4	0	0	0		
2003-Nov-12	20:28	96	11.40	5.0	39.9	0	0	0		
2003-Nov-12	20:28	96	11.51	5.0	42.4	0	0	0		
2003-Nov-12	20:29	96	11.50	5.0	44.9	0	0	0		
2003-Nov-12	20:29	101	11.46	5.0	47.4	0	0	0		
2003-Nov-12	20:30	101	11.32	5.0	49.8	0	0	0		
2003-Nov-12	20:30	101	11.47	5.0	52.3	0	0	0		
2003-Nov-12	20:31	101	11.66	5.0	54.8	0	0	0		
2003-Nov-12	20:31	101	11.72	5.0	57.3	0	0	0		
2003-Nov-12	20:32	96	11.23	5.0	59.8	0	0	0		
2003-Nov-12	20:32	96	10.89	5.0	62.3	0	0	0		
2003-Nov-12	20:33	96	10.82	5.0	64.8	0	0	0		
2003-Nov-12	20:33	101	12.21	5.0	67.3	0	0	0		
2003-Nov-12	20:33	105	13.38	5.0	69.3	0	0	0		
2003-Nov-12	20:33									Reset Total, Vol = 69.32 bbl
2003-Nov-12	20:34	105	7.25	5.0	0.2	0	0	0		
2003-Nov-12	20:34									Start Mixing Tail Slurry
2003-Nov-12	20:34	110	1.64	5.0	0.4	0	0	0		
2003-Nov-12	20:34	114	14.08	5.0	2.9	0	0	0		
2003-Nov-12	20:35	119	14.30	5.0	5.4	0	0	0		
2003-Nov-12	20:35	133	14.87	5.0	7.9	0	0	0		
2003-Nov-12	20:36	133	15.49	5.0	10.4	0	0	0		
2003-Nov-12	20:36	124	14.99	5.0	12.8	0	0	0		
2003-Nov-12	20:37	119	14.30	5.0	15.4	0	0	0		
2003-Nov-12	20:37	128	15.23	5.0	17.9	0	0	0		
2003-Nov-12	20:38	137	15.56	5.0	20.4	0	0	0		
2003-Nov-12	20:38	133	15.43	5.0	22.9	0	0	0		
2003-Nov-12	20:39	128	15.34	5.0	25.4	0	0	0		
2003-Nov-12	20:39	-5	14.99	0.0	27.1	0	0	0		
2003-Nov-12	20:39	-5	14.99	0.0	27.1	0	0	0		
2003-Nov-12	20:39								Reset Total, Vol = 27.09 bbl	
2003-Nov-12	20:39	-9	14.99	0.0	0.0	0	0	0		
2003-Nov-12	20:39								Drop Top Plug	
2003-Nov-12	20:39	-5	14.99	0.0	0.0	0	0	0		
2003-Nov-12	20:39								Start Displacement	
2003-Nov-12	20:40	-5	15.01	0.0	0.0	0	0	0		
2003-Nov-12	20:40	-9	13.40	0.0	0.0	0	0	0		
2003-Nov-12	20:41	-5	12.16	0.0	0.0	0	0	0		
2003-Nov-12	20:41	-9	11.39	0.0	0.0	0	0	0		
2003-Nov-12	20:42	-9	10.92	0.0	0.0	0	0	0		
2003-Nov-12	20:42	-9	10.71	0.0	0.0	0	0	0		
2003-Nov-12	20:43	-9	10.56	0.0	0.0	0	0	0		

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Well		Field		Service Date		Customer		Job Number	
MILLER #M-3 _t		SEC 20-T34-R40W		03316-Nov-12		OXY USA, INC.		2205544146	
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0	
2003-Nov-12	20:43	-9	10.34	0.0	0.0	0	0	0	KCC MAR 03 2004 CONFIDENTIAL
2003-Nov-12	20:44	-9	10.76	0.0	0.0	0	0	0	
2003-Nov-12	20:44	-9	10.50	0.0	0.0	0	0	0	
2003-Nov-12	20:45	-9	10.36	0.0	0.0	0	0	0	
2003-Nov-12	20:45	-9	10.27	0.0	0.0	0	0	0	
2003-Nov-12	20:46	50	9.46	2.9	0.5	0	0	0	
2003-Nov-12	20:46	50	9.37	0.5	1.3	0	0	0	
2003-Nov-12	20:47	41	8.59	0.6	1.6	0	0	0	
2003-Nov-12	20:47	41	8.44	2.9	2.8	0	0	0	
2003-Nov-12	20:48	50	8.44	4.5	4.9	0	0	0	
2003-Nov-12	20:48	69	8.67	4.6	13.4	0	0	0	
2003-Nov-12	20:49	82	8.56	4.5	15.7	0	0	0	
2003-Nov-12	20:49	96	8.44	4.6	18.0	0	0	0	
2003-Nov-12	20:50	55	8.44	2.0	19.2	0	0	0	
2003-Nov-12	20:50	55	8.45	2.0	20.2	0	0	0	
2003-Nov-12	20:51	60	8.46	2.0	21.2	0	0	0	
2003-Nov-12	20:51	69	8.47	2.0	22.3	0	0	0	
2003-Nov-12	20:52	69	8.47	2.0	23.3	0	0	0	
2003-Nov-12	20:52	87	8.44	2.1	24.3	0	0	0	
2003-Nov-12	20:53	92	8.44	2.0	25.3	0	0	0	
2003-Nov-12	20:53	96	8.44	2.0	26.3	0	0	0	
2003-Nov-12	20:54	101	8.44	2.0	27.4	0	0	0	
2003-Nov-12	20:54	485	8.44	0.0	27.9	0	0	0	
2003-Nov-12	20:55	485	8.42	0.0	27.9	0	0	0	
2003-Nov-12	20:55								Reset Total, Vol = 28.5 bbl
2003-Nov-12	20:55	485	8.42	0.0	27.9	0	0	0	
2003-Nov-12	20:55	481	8.42	0.0	27.9	0	0	0	
2003-Nov-12	20:56	-5	8.42	0.0	27.9	0	0	0	
2003-Nov-12	20:56	-5	8.42	0.0	27.9	0	0	0	
2003-Nov-12	20:56								Bump Top Plug
2003-Nov-12	20:56								Float Holding
2003-Nov-12	20:56	0	8.42	0.0	27.9	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	
2				5	79		10		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density		
110		60	485				bbl	8.34 lb/gal	
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?		Volume	30 bbl	
%	79 bbl		28.5 bbl	°F	<input checked="" type="checkbox"/>		To	ft	
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	
Willimon, Wes			Ousley, John						

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MAR 03 2004

ORIGINAL

Customer: OXY USA	Job #: 2205544146
Well name: Miller	Job Type: Surface
Well #: M3	Bit Size: 12 1/4
County: Morton	Well Depth: 484
State: Kansas	Stage: Primary

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System 1	
100 sks	Panhandle Lite+.2%D46+.25 pps D29
3.07 :yield	55 bbl cmt
18.23 :H2O	43 bbl H2O
11.4 wt.	307 cu. ft.
441 ann Psi	744 ann. ft

System 2	
100 sks	Class C+2%S1+.25 pps D29
1.34 :yield	24 bbl cmt
6.3 :H2O	15 bbl H2O
14.8 wt.	134 cu. ft.
215 ann. Psi	325 ann. ft

Nitrogen	
0 bbl of	9.4 lb/gal
0 scf/bbl	0 cooldown
0 scf downhole	0
0 scf total used	0 psi ann.hyd.

Mud Removal/Spacer	
10 bbl of	FreshWater
136 ft ann. Height	59 psi ann. hyd.

Pipe Data			
8.625 O.D.	DV Tool	feet	
8.097 I.D.			
Csg Wt.	Feet	cap.	volume
24	474.87	0.0637	30.25 bbl
32	17	0.0609	1.04 bbl
24	0	0.0637	0.00 bbl

TD	484 feet	7.87 ft above floor
TP	491.87 feet	31.28 bbl
SJ	43.36 feet	2.76 bbl
Float @	448.51 feet	28.5 bbl

Annular Data	
12.250 OH	cap. 0.1458 bbl/ft
0.0735 bbl/ft	0.4127 cuft/ft
13.6035 ft/bbl	2.4229 ft/cuft

Csg Wt. Air	11940.88 lb.
CrossSect. Area	6.9345 sq. in.
Bouyancy	2177 lb.
Csg Wt. Fluid	9763 lb.
Csg Inside Area	51.4919 sq. in.
Csg Lift Pressure	190 psi
Ann Hydrostatic	314 psi
Differential	119 psi

D132 Poz	Plug down @ 2100	hrs
D020 Bentonite	Lift Pressure 110	psi
D053 Gypsum	Bumped to 485	psi
D042 Kolite		
D065 TIC Dispersant	Thickening Time	hrs
D029 Celloflake		
D112 Fluid Loss		
M117 KCl		
D046 Antifoam		
D079 Extender		

Totals		
Nitrified Mud	0 bbl with	0 scf/bbl
FreshWater	10 bbl @	8.33 lb/gal
System 1	55 bbl @	11.4 lb/gal
System 2	24 bbl @	14.8 lb/gal
Displacement	28.5 bbl with	0 % flush
OpenHole Volume	71 bbl	
Annular Volume	36 bbl	
Total Cement	76 bbl	
Total Water	118 bbl needed	
Differential	119 psi	
Casing Lift	190 psi	
Top of Scav/Lead	0 ft	
Top of Tail	205 ft	
Total Excess	110 %	

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

Displacement Chemicals	
0 % Treated Displacement	
L055	0 gal/1000
L064	0 gal/1000
F103	0 gal/1000
B69	0 lbs.

Chemical Wash	
none	0 gal needed
none	0 gal needed

Time			
Stage	Vol	Rate	Minutes
N2/Mud	0	4	0
Spacer	10	4	3
Scavenger	55	5	11
Tail	24	5	5
Displace	18.5	5	4
Slowdown	10	2	5
Total Pump Time			47

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Well MILLER M-3										
Field SEC 20-T34-R40W			Formation Name/Type CONFIDENTIAL							
County MORTON CO			State/Province KANSAS			BHP psi	BHST 120 °F	BHCT 100 °F	Pore Press. Gradient psi/ft	
Well Master: 0630544099			API / UWI:			Casing/Liner 7.89 in 2,830 ft 2,830 ft				
Rig Name		Drilled For Oil & Gas		Service Via		Depth, ft 2829	Size, in 4.5	Weight, lb/ft 11.6	Grade	Thread
Offshore Zone		Well Class New		Well Type Exploration		Tubing/Drill Pipe				
Drilling Fluid Type			Max. Density lb/gal	Plastic Viscosity cp		Depth,	Size, in	Weight, lb/ft	Grade	Thread
Service Line Cementing		Job Type Cem Prod Casing		Perforations/Open Hole						
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 4 1/2 HS&M		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
Service Instructions CEMENT 4 1/2 PRODUCTION CASING WITH: 20 BBL CW100 220 SKS CLASS C + 3%D79 + 0.2%D46 + 0.25 PPS D29 220 SKS 50/50 POZ CLASS H + 2%D20 + 3%M117 + 5 PPS D42 + 5 PPS D53 + 0.25% D112 + 0.25% D65 + 0.25% D46 DISPLACE WITH 4 GAL L64 + 1 LB OF B69						Treat Down Casing	Displacement 43.2 bbl	Packer Type	Packer Depth ft	
						Tubing Vol. bbl	Casing Vol. 44 bbl	Annular Vol. 115 bbl	Open Hole Vol. 159 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>			1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>			Casing Tools		Squeeze Job		
Lift Pressure: 600 psi			Pipe Rotated <input type="checkbox"/>			Pipe Reciprocated <input checked="" type="checkbox"/>			Shoe Type:	Squeeze Type
No. Centralizers:			Top Plugs: 1	Bottom Plugs: 0		Shoe Depth: 2829 ft		Tool Type:		
Cement Head Type: Single			Job Scheduled For: 2003-Nov-14 15:00			Arrived on Location: 2003-Nov-14 20:00			Leave Location:	Stage Tool Type:
						Stage Tool Depth: ft		Tool Depth: ft		
						Collar Type:		Tail Pipe Size: in		
						Collar Depth: 2784 ft		Tail Pipe Depth: ft		
								Sqz Total Vol: bbl		
Date	Time	Treating Pressure 24 hr clock psi	Flow Rate bbl/min	CMT DENS. lb/gal	Volume bbl	0	0	0	Message	
2003-Nov-14	18:19								Start Job	
2003-Nov-14	18:19	0	0.0	8.40	0.0	0	0	0		
2003-Nov-14	18:19	0	0.0	8.40	0.0	0	0	0		
2003-Nov-14	18:20	0	0.0	8.40	0.0	0	0	0		
2003-Nov-14	18:20	174	0.4	8.39	0.1	0	0	0		
2003-Nov-14	18:21	2454	0.0	8.40	0.1	0	0	0		
2003-Nov-14	18:21	2449	0.0	8.40	0.1	0	0	0		
2003-Nov-14	18:21								Pressure Test Lines	
2003-Nov-14	18:21	2440	0.0	8.40	0.1	0	0	0		
2003-Nov-14	18:21								Start Pumping Wash	
2003-Nov-14	18:21	2371	0.0	8.40	0.1	0	0	0		
2003-Nov-14	18:22	55	0.0	8.43	0.1	0	0	0		
2003-Nov-14	18:22	78	2.9	8.40	1.0	0	0	0		
2003-Nov-14	18:23	133	4.9	8.41	3.1	0	0	0		
2003-Nov-14	18:23	137	5.0	8.41	5.6	0	0	0		
2003-Nov-14	18:24	146	5.0	8.44	8.2	0	0	0		
2003-Nov-14	18:24	165	5.1	8.44	10.7	0	0	0		
2003-Nov-14	18:25	174	5.1	8.44	13.2	0	0	0		
2003-Nov-14	18:25	179	5.1	8.44	15.8	0	0	0		
2003-Nov-14	18:26	197	5.1	8.44	18.3	0	0	0		
2003-Nov-14	18:26	215	5.1	8.46	20.9	0	0	0		
2003-Nov-14	18:27	215	5.1	8.57	22.6	0	0	0		

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Well		Field			Service Date		Customer		Job Number
MILLER #M-3		SEC 20-T34-R40W			03/18-Nov-14		OXY USA, INC.		2205644148
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	0	0	0	Message
	24 hr clock	psi	bb/min	lb/gal	bbbl	0	0	0	
2003-Nov-14	18:27								End Wash
2003-Nov-14	18:27	215	5.1	8.57	22.7	0	0	0	
2003-Nov-14	18:27								Start Pumping Spacer
2003-Nov-14	18:27	229	5.1	8.57	23.4	0	0	0	
2003-Nov-14	18:27	229	5.1	9.57	25.7	0	0	0	
2003-Nov-14	18:27								End Spacer
2003-Nov-14	18:27								Reset Total, Vol = 25.92 bbl
2003-Nov-14	18:27	233	5.2	10.26	25.9	0	0	0	
2003-Nov-14	18:27	238	5.1	10.29	0.1	0	0	0	
2003-Nov-14	18:27								Start Mixing Lead Slurry
2003-Nov-14	18:27	243	5.2	10.40	0.3	0	0	0	
2003-Nov-14	18:28	261	5.2	11.24	2.7	0	0	0	
2003-Nov-14	18:28	270	5.2	10.86	5.3	0	0	0	
2003-Nov-14	18:29	283	5.2	11.05	6.5	0	0	0	
2003-Nov-14	18:29								Reset Total, Vol = 6.47 bbl
2003-Nov-14	18:29	252	5.2	11.38	7.9	0	0	0	
2003-Nov-14	18:29	270	5.2	11.79	10.5	0	0	0	
2003-Nov-14	18:30	275	5.2	11.68	13.1	0	0	0	
2003-Nov-14	18:30	233	5.2	11.33	15.7	0	0	0	
2003-Nov-14	18:31	252	5.8	11.00	18.4	0	0	0	
2003-Nov-14	18:31	233	5.8	10.86	21.3	0	0	0	
2003-Nov-14	18:32	165	5.1	10.83	24.0	0	0	0	
2003-Nov-14	18:32	156	5.1	10.98	26.5	0	0	0	
2003-Nov-14	18:33	133	5.1	11.30	29.1	0	0	0	
2003-Nov-14	18:33	96	5.1	11.22	31.6	0	0	0	
2003-Nov-14	18:34	82	5.1	11.02	34.2	0	0	0	
2003-Nov-14	18:34	82	5.1	11.05	36.8	0	0	0	
2003-Nov-14	18:35	87	5.1	10.89	39.3	0	0	0	
2003-Nov-14	18:35	82	5.1	10.93	42.0	0	0	0	
2003-Nov-14	18:36	87	5.1	11.01	44.5	0	0	0	
2003-Nov-14	18:36	87	5.1	11.08	47.1	0	0	0	
2003-Nov-14	18:37	82	5.1	11.11	49.6	0	0	0	
2003-Nov-14	18:37	82	5.1	11.09	52.2	0	0	0	
2003-Nov-14	18:38	87	5.1	11.05	54.8	0	0	0	
2003-Nov-14	18:38	87	5.1	10.87	57.3	0	0	0	
2003-Nov-14	18:39	82	5.1	11.27	59.9	0	0	0	
2003-Nov-14	18:39	87	5.1	11.45	62.5	0	0	0	
2003-Nov-14	18:40	87	5.1	11.40	65.0	0	0	0	
2003-Nov-14	18:40	82	5.1	11.27	67.6	0	0	0	
2003-Nov-14	18:41	87	5.1	11.27	70.2	0	0	0	
2003-Nov-14	18:41	82	5.1	11.16	72.7	0	0	0	
2003-Nov-14	18:42	82	5.1	11.05	75.3	0	0	0	
2003-Nov-14	18:42	87	5.1	10.97	77.9	0	0	0	
2003-Nov-14	18:43	82	5.1	10.94	80.4	0	0	0	
2003-Nov-14	18:43	82	5.1	10.98	83.0	0	0	0	
2003-Nov-14	18:44	87	5.1	11.10	85.6	0	0	0	
2003-Nov-14	18:44	82	5.1	11.30	88.1	0	0	0	
2003-Nov-14	18:45	78	5.1	11.24	90.7	0	0	0	
2003-Nov-14	18:45	82	5.1	11.39	93.3	0	0	0	
2003-Nov-14	18:46	82	5.1	11.20	95.8	0	0	0	
2003-Nov-14	18:46	82	5.1	11.26	98.4	0	0	0	
2003-Nov-14	18:47	82	5.1	11.04	101.1	0	0	0	
2003-Nov-14	18:47	73	5.1	11.15	103.6	0	0	0	
2003-Nov-14	18:48	78	5.1	10.95	106.2	0	0	0	

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Nov 14, 2003 WRS3 v3.410-SR

Cementing Service Report



Customer: OXY USA, INC. Location (legal): Perryton, TX
 Schlumberger-Location: Perryton, TX
 Job Number: 2205644148
 Page 2 of 5 - Job start
 2003-Nov-14
 Well MD: Well TVD
 Deviation: Bit Size

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Date	Time 24 hr clock	Treating Pressure	Flow Rate	CHT DENS	Volume	0	0	0	
		psi	bbl/min	lb/gal	bbl	0	0	0	
2003-Nov-14	18:48	78	5.1	10.90	108.8	0	0	0	KCC MAR 0 3 2004 CONFIDENTIAL
2003-Nov-14	18:49	73	5.1	11.02	111.3	0	0	0	
2003-Nov-14	18:49	73	5.1	11.06	113.9	0	0	0	
2003-Nov-14	18:50	87	5.1	11.08	116.5	0	0	0	
2003-Nov-14	18:50	82	5.1	11.21	119.1	0	0	0	
2003-Nov-14	18:51	87	5.2	11.46	121.6	0	0	0	
2003-Nov-14	18:51	105	5.1	11.24	124.2	0	0	0	
2003-Nov-14	18:52	82	5.2	11.28	126.8	0	0	0	
2003-Nov-14	18:52	78	5.2	11.31	129.3	0	0	0	
2003-Nov-14	18:53	82	5.2	11.25	131.9	0	0	0	
2003-Nov-14	18:53	101	5.1	11.26	134.5	0	0	0	
2003-Nov-14	18:54	82	5.1	11.52	137.1	0	0	0	
2003-Nov-14	18:54	96	5.2	11.36	138.1	0	0	0	
2003-Nov-14	18:54								End Lead Slurry
2003-Nov-14	18:54								Reset Total, Vol = 131.80 bbl
2003-Nov-14	18:54	92	5.2	11.33	139.3	0	0	0	Start Mixing Tail Slurry
2003-Nov-14	18:54								
2003-Nov-14	18:54	92	5.1	11.31	0.1	0	0	0	RELEASED FROM CONFIDENTIAL RECEIVED MAR 0 4 2004 KCC WICHITA
2003-Nov-14	18:54	92	5.1	11.68	1.4	0	0	0	
2003-Nov-14	18:55	96	5.2	12.83	3.9	0	0	0	
2003-Nov-14	18:55	105	5.1	13.33	6.5	0	0	0	
2003-Nov-14	18:56	110	5.1	13.92	9.1	0	0	0	
2003-Nov-14	18:56	119	5.1	14.24	11.7	0	0	0	
2003-Nov-14	18:57	128	5.1	14.24	14.2	0	0	0	
2003-Nov-14	18:57	119	5.1	14.05	16.8	0	0	0	
2003-Nov-14	18:58	124	5.1	13.85	19.4	0	0	0	
2003-Nov-14	18:58	119	5.1	13.88	21.9	0	0	0	
2003-Nov-14	18:59	124	5.1	14.15	24.6	0	0	0	
2003-Nov-14	18:59	133	5.1	14.33	27.2	0	0	0	
2003-Nov-14	19:00	133	5.1	14.26	29.7	0	0	0	
2003-Nov-14	19:00	128	5.1	14.14	32.3	0	0	0	
2003-Nov-14	19:01	119	5.1	14.07	34.9	0	0	0	
2003-Nov-14	19:01	124	5.1	14.06	37.4	0	0	0	
2003-Nov-14	19:02	119	5.1	13.98	40.0	0	0	0	
2003-Nov-14	19:02	119	5.2	13.79	42.6	0	0	0	
2003-Nov-14	19:03	114	5.1	13.88	45.2	0	0	0	
2003-Nov-14	19:03	110	5.1	13.82	47.7	0	0	0	
2003-Nov-14	19:04	114	5.1	13.90	50.3	0	0	0	
2003-Nov-14	19:04	114	5.1	14.09	52.9	0	0	0	
2003-Nov-14	19:05	110	5.1	14.11	55.4	0	0	0	
2003-Nov-14	19:05	110	5.1	14.14	58.0	0	0	0	
2003-Nov-14	19:06	119	5.1	14.28	60.6	0	0	0	
2003-Nov-14	19:06	128	5.2	14.19	63.2	0	0	0	
2003-Nov-14	19:07	124	5.1	14.14	65.7	0	0	0	
2003-Nov-14	19:07	32	0.0	14.06	67.2	0	0	0	
2003-Nov-14	19:07								End Tail Slurry
2003-Nov-14	19:07	-18	0.0	14.03	67.2	0	0	0	Reset Total, Vol = 67.19 bbl
2003-Nov-14	19:07								
2003-Nov-14	19:07	-18	0.0	14.00	0.0	0	0	0	Drop Top Plug Start Displacement
2003-Nov-14	19:08	-18	0.0	14.00	0.0	0	0	0	
2003-Nov-14	19:08								Drop Top Plug Start Displacement
2003-Nov-14	19:08	-14	0.0	14.00	0.0	0	0	0	
2003-Nov-14	19:08	-18	0.0	13.98	0.0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
MILLER #M-3		SEC 20-T34-R40W			03318-Nov-14		OXY USA, INC.		2205544148
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2003-Nov-14	19:08	-18	0.0	13.32	0.0	0	0	0	KCC MAR 0 3 2004 CONFIDENTIAL
2003-Nov-14	19:09	-9	0.0	12.40	0.0	0	0	0	
2003-Nov-14	19:09	41	2.9	10.47	0.0	0	0	0	
2003-Nov-14	19:10	206	7.6	13.20	0.0	0	0	0	
2003-Nov-14	19:10	156	7.6	13.20	0.0	0	0	0	
2003-Nov-14	19:11	261	7.5	8.60	0.0	0	0	0	
2003-Nov-14	19:11	78	7.8	0.70	0.0	0	0	0	
2003-Nov-14	19:12	142	0.2	8.15	0.0	0	0	0	
2003-Nov-14	19:12	-14	0.0	8.44	0.0	0	0	0	
2003-Nov-14	19:13	-14	0.0	8.44	0.0	0	0	0	
2003-Nov-14	19:13	-14	0.0	8.44	0.0	0	0	0	
2003-Nov-14	19:14	-14	0.0	8.44	0.0	0	0	0	
2003-Nov-14	19:14	73	2.9	8.42	0.4	0	0	0	
2003-Nov-14	19:15	46	5.1	8.42	2.8	0	0	0	
2003-Nov-14	19:15	46	5.7	8.42	5.7	0	0	0	
2003-Nov-14	19:16	46	5.7	8.42	8.5	0	0	0	
2003-Nov-14	19:16	105	5.8	8.42	11.4	0	0	0	
2003-Nov-14	19:17	156	5.8	8.42	14.3	0	0	0	
2003-Nov-14	19:17	215	5.8	8.42	17.2	0	0	0	
2003-Nov-14	19:18	270	5.8	8.42	20.1	0	0	0	
2003-Nov-14	19:18	334	5.9	8.42	23.0	0	0	0	
2003-Nov-14	19:19	394	5.9	8.42	25.9	0	0	0	
2003-Nov-14	19:19	421	5.9	8.42	28.8	0	0	0	
2003-Nov-14	19:20	490	6.0	8.42	31.8	0	0	0	
2003-Nov-14	19:20	403	2.8	8.42	34.3	0	0	0	
2003-Nov-14	19:21	458	2.8	8.42	35.7	0	0	0	
2003-Nov-14	19:21	481	2.8	8.42	37.1	0	0	0	
2003-Nov-14	19:22	494	2.8	8.42	38.6	0	0	0	
2003-Nov-14	19:23	522	1.9	8.42	39.9	0	0	0	
2003-Nov-14	19:23	554	1.9	8.42	40.8	0	0	0	
2003-Nov-14	19:24	549	1.9	8.42	41.8	0	0	0	
2003-Nov-14	19:24	549	1.9	8.42	42.7	0	0	0	
2003-Nov-14	19:25	1062	0.0	8.42	43.1	0	0	0	
2003-Nov-14	19:25	1067	0.0	8.42	43.1	0	0	0	
2003-Nov-14	19:25								Bump Top Plug
2003-Nov-14	19:25	1067	0.0	8.42	43.1	0	0	0	
2003-Nov-14	19:25								End Displacement
2003-Nov-14	19:25	1067	0.0	8.42	43.1	0	0	0	
2003-Nov-14	19:25								Reset Total, Vol = 43.05 bbl
2003-Nov-14	19:25	1067	0.0	8.42	0.0	0	0	0	
2003-Nov-14	19:26	1021	0.0	8.42	0.0	0	0	0	
2003-Nov-14	19:26	-23	0.0	8.42	0.0	0	0	0	

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Well	Field	Service Date	Customer
MILLER #M-3	SEC 20-T34-R40W	03318 Nov 14	OXY USA, INC.

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Well MILLER #M-3		Field SEC 20-T34-R40W		Service Date 03318-Nov-14		Customer OXY USA, INC.		Job Number 2205544148	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbt/min	CMT DENS lb/gal	Volume bbt	0	0	0	Message
						0	0	0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2	
5	0	0	6		190	0	25		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density		
			1100				bbt lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement		Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	30 bbl	
%	190 bbl		43.2 bbl		°F	<input type="checkbox"/> Washed Thru Perfs	To	ft	
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	
Rep, Company			Ahrends, Timothy						

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