

CONFIDENTIAL

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

ORIGINAL

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905

Purchaser: Jayhawk
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200

Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
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: 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. _____
10/27/03 11/04/03 11/13/03

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 129-21718-0000
County: Morton
SW - SW - NW Sec 33 Twp. 34 S. R. 41W
2640 feet from S (N)(circle one) Line of Section
100 feet from E (W)(circle one) Line of Section

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

Lease Name: Wilburton Morrow Sand Unit Well #: 1107
Field Name: Wilburton
Producing Formation: Morrow

Elevation: Ground: 3451 Kelly Bushing: 3462
Total Depth: 5040 Plug Back Total Depth: 4990
Amount of Surface Pipe Set and Cemented at 1456 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.

Drilling Fluid Management Plan **ALT I WHM**
2-12-07
(Data must be collected from the Reserve Pit)
Chloride content 800 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.

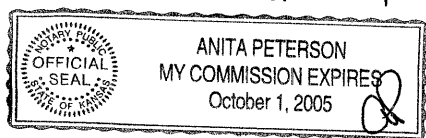
Signature: Vicki Carder
Title: Capitol Project Date February 9, 2004
Subscribed and sworn to before me this 9th day of Feb
20 04
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2005

KCC Office Use Only
 Letter of Confidentiality Attached
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution



Operator Name: OXY USA Inc. Lease Name: Wilburton Morrow Sand Unit Well #: 1107

Sec. 33 Twp. 24 S. R. 41W 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3458	+4
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3536	-74
List All E. Logs Run:	Microlog Neutron	Marmaton	4112	-650
Induction		Cherokee	4362	-908
		Atoka	4597	-1135
		Morrow	4715	-1253

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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	1456	C	485	Panhandle Lite + Additive See attach cmt tkt for additives
Production	7 7/8	5 1/2	15.5	5038	H	155	50/50 Poz + Additives See attach cmt tkt for 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
3	4863-4908		

TUBING RECORD	Size 2 7/8	Set At 4921	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 12/03/03	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 28	Gas Mcf	Water Bbls 260	Gas-Oil Ratio Gravity

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) _____

Well WMSU 1107		Location (legal) KCC		Schlumberger Location Perryton, TX		Job Start 2003-Oct-28	
Field		Formation Name/Type FEB 09 2004		Deviation		Well MD 1,460 ft	
County MORTON CO		State/Province KANSAS		BHP 1000 psi		Well TVD 1,460 ft	
Well Master: 0630542640		API / UWI:		BHPST 100 °F		BHTC 86 °F	
Rig Name		Drilled For Oil & Gas		Service Via		Casing/Liner	
Offshore Zone		Well Class New		Well Type Development		Depth, ft 1460	
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cp		Size, in 8.625	
Service Line Cementing		Job Type Cem Surface Casing		Weight, lb/ft 24		Grade K55	
Max. Allowed Tubing Pressure 1000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 8 5/8 HS&M		Thread 8RD	
Service Instructions CEMENT 8 5/8 IN SURFACE CASING WITH: 335 SKS (PANHANDLE LITE) CLASS C + 1.0% D30 + 2.0% D79 + 2.0% D53 + 3% S001 + 6 PPS D044 + 0.2%D46 + 0.25 PPS D29 150 SKS CLASS C + 2% S001+ 0.25 PPS D29		Perforations/Open Hole		Top, ft		Bottom, ft	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		spf		No. of Shots	
Lift Pressure: 240 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Total Interval ft	
No. Centralizers: Top Plugs: 1		Bottom Plugs: 0		Treat Down Casing		Displacement bbl	
Cement Head Type: Single		Job Scheduled For: 2003-Oct-28 18:30		Arrived on Location: 2003-Oct-29 2:00		Packer Type None	
Stage Tool Type:		Collar Type: None		Annular Vol. bbl		Packer Depth 0 ft	
Stage Tool Depth: ft		Collar Depth: ft		OpenHole Vol bbl		Squeeze Job	
Tail Pipe Size: in		Tail Pipe Depth: ft		Squeeze Type		Tool Type:	
Tail Pipe Depth: ft		Squeeze Total Vol: bbl		Tool Depth: ft		Tool Type:	
Squz Total Vol: bbl		Message		Tool Depth: ft		Tool Type:	

Date	Time	Treating Pressure 24 hr clock psi	Flow Rate bbf/min	Volume bbl	CMT DENS lb/gal	0	0	0	Message
2003-Oct-28	21:52	0	0.0	0.0	8.44	0	0	0	
2003-Oct-28	21:52								Start Job
2003-Oct-28	21:52								Pressure Test Lines
2003-Oct-28	23:30	0	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:31	-5	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:32	0	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:32	0	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:33	0	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:34	-5	0.0	0.0	8.44	0	0	0	
2003-Oct-28	23:35	1195	0.9	0.1	8.46	0	0	0	
2003-Oct-28	23:36	37	0.0	0.1	8.44	0	0	0	
2003-Oct-28	23:37	41	0.2	0.1	8.44	0	0	0	
2003-Oct-28	23:37								Pressure Test Lines
2003-Oct-28	23:37	119	4.4	2.0	8.44	0	0	0	
2003-Oct-28	23:37								Start Pumping Spacer
2003-Oct-28	23:37	124	4.4	2.2	8.44	0	0	0	
2003-Oct-28	23:37								End Spacer
2003-Oct-28	23:37	128	4.4	2.5	8.51	0	0	0	
2003-Oct-28	23:37								Start Mixing Lead Slurry
2003-Oct-28	23:38								Reset Total, Vol = 2.90 bbl
2003-Oct-28	23:38	128	4.4	2.9	9.38	0	0	0	
2003-Oct-28	23:38	142	4.5	3.1	11.81	0	0	0	

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Well		Field				Service Date		Customer		Job Number
WMSU #1107						03301-Oct-28		OXY USA, INC.		2205543880
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message	
	24 hr clock	psi	bbf/min	bbf	lb/gal	0	0	0		
2003-Oct-28	23:39	133	4.5	6.9	11.15	0	0	0		
2003-Oct-28	23:40	137	4.6	10.7	11.92	0	0	0		
2003-Oct-28	23:41	133	4.6	14.5	11.40	0	0	0		
2003-Oct-28	23:42	124	4.7	18.4	10.92	0	0	0		
2003-Oct-28	23:42	119	4.7	22.3	11.26	0	0	0		
2003-Oct-28	23:43	119	4.7	26.2	11.80	0	0	0		
2003-Oct-28	23:44	119	4.8	30.2	11.89	0	0	0		
2003-Oct-28	23:45	119	4.8	34.1	11.66	0	0	0		
2003-Oct-28	23:46	105	4.8	38.1	11.08	0	0	0		
2003-Oct-28	23:47	105	4.8	42.1	11.34	0	0	0		
2003-Oct-28	23:47	105	4.8	46.1	11.44	0	0	0		
2003-Oct-28	23:48	105	4.8	50.1	11.31	0	0	0		
2003-Oct-28	23:49	105	4.8	54.1	11.29	0	0	0		
2003-Oct-28	23:50	105	4.9	58.2	11.30	0	0	0		
2003-Oct-28	23:51	105	4.8	62.3	11.27	0	0	0		
2003-Oct-28	23:52	105	4.9	66.3	11.41	0	0	0		
2003-Oct-28	23:52	105	4.9	70.4	11.39	0	0	0		
2003-Oct-28	23:53	105	4.9	74.4	11.36	0	0	0		
2003-Oct-28	23:54	101	4.8	78.5	11.38	0	0	0		
2003-Oct-28	23:55	105	4.9	82.5	11.43	0	0	0		
2003-Oct-28	23:56	105	4.9	86.6	11.40	0	0	0		
2003-Oct-28	23:57	105	4.9	90.7	11.40	0	0	0		
2003-Oct-28	23:57	105	4.9	94.7	11.39	0	0	0		
2003-Oct-28	23:58	105	4.9	98.8	11.49	0	0	0		
2003-Oct-28	23:59	105	4.9	102.9	11.56	0	0	0		
2003-Oct-29	0:00	105	4.9	107.0	11.62	0	0	0		
2003-Oct-29	0:01	105	4.9	111.1	11.44	0	0	0		
2003-Oct-29	0:02	105	4.9	115.2	11.47	0	0	0		
2003-Oct-29	0:02	110	4.9	119.3	11.53	0	0	0		
2003-Oct-29	0:03	110	4.9	123.4	11.42	0	0	0		
2003-Oct-29	0:04	110	4.9	127.5	11.38	0	0	0		
2003-Oct-29	0:05	110	4.9	131.5	11.34	0	0	0		
2003-Oct-29	0:06	105	4.8	135.5	11.33	0	0	0		
2003-Oct-29	0:07	105	4.9	139.6	11.40	0	0	0		
2003-Oct-29	0:07	105	4.9	143.6	11.56	0	0	0		
2003-Oct-29	0:08	110	4.9	147.7	11.61	0	0	0		
2003-Oct-29	0:09	110	4.9	151.8	11.64	0	0	0		
2003-Oct-29	0:10	110	4.9	155.8	11.68	0	0	0		
2003-Oct-29	0:11	114	5.0	160.0	11.65	0	0	0		
2003-Oct-29	0:12	110	4.9	164.0	11.13	0	0	0		
2003-Oct-29	0:12	105	4.9	168.1	11.59	0	0	0		
2003-Oct-29	0:13	119	4.9	172.3	11.85	0	0	0		
2003-Oct-29	0:14	119	4.9	176.4	11.80	0	0	0		
2003-Oct-29	0:15	114	4.9	180.4	11.60	0	0	0		
2003-Oct-29	0:16	114	4.9	184.5	11.59	0	0	0		
2003-Oct-29	0:17	119	4.9	188.6	11.56	0	0	0		
2003-Oct-29	0:17	114	4.9	192.7	11.53	0	0	0		
2003-Oct-29	0:18	114	4.8	196.8	11.45	0	0	0		
2003-Oct-29	0:19	119	4.9	200.9	11.48	0	0	0		
2003-Oct-29	0:20	124	4.9	205.0	12.33	0	0	0		
2003-Oct-29	0:21	137	4.9	209.1	13.15	0	0	0		
2003-Oct-29	0:21								End Lead Slurry	
2003-Oct-29	0:21	137	4.9	212.1	13.44	0	0	0		
2003-Oct-29	0:21	137	4.9	212.2	13.44	0	0	0		

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Well		Field		Service Date		Customer			Job Number
WMSU #110				03301-Oct-28		OXY USA, INC.			2205543880
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	ps	bbl/min	bbl	lb/gal	0	0	0	
2003-Oct-29	0:21								Start Mixing Tail Slurry
2003-Oct-29	0:21	37	4.9	212.4	13.48	0	0	0	
2003-Oct-29	0:21								Reset Total, Vol = 212.41 bbl
2003-Oct-29	0:22	42	4.9	0.7	13.89	0	0	0	
2003-Oct-29	0:22	56	4.9	4.8	15.07	0	0	0	
2003-Oct-29	0:23	33	4.7	9.0	14.33	0	0	0	
2003-Oct-29	0:24	46	4.7	12.9	15.33	0	0	0	
2003-Oct-29	0:25	37	4.7	16.8	14.76	0	0	0	
2003-Oct-29	0:26	56	4.7	20.6	15.23	0	0	0	
2003-Oct-29	0:27	65	4.7	24.5	15.27	0	0	0	
2003-Oct-29	0:27	51	4.7	28.4	15.18	0	0	0	
2003-Oct-29	0:28	51	4.7	32.3	15.16	0	0	0	
2003-Oct-29	0:29	60	4.7	36.2	15.10	0	0	0	
2003-Oct-29	0:30	45	0.0	39.0	14.41	0	0	0	
2003-Oct-29	0:30	45	0.0	39.0	14.67	0	0	0	
2003-Oct-29	0:30								End Tail Slurry
2003-Oct-29	0:30								Drop Top Plug
2003-Oct-29	0:30	45	0.0	39.0	14.76	0	0	0	
2003-Oct-29	0:30	45	0.0	39.0	14.77	0	0	0	
2003-Oct-29	0:30								Bump Top Plug
2003-Oct-29	0:30								Start Displacement
2003-Oct-29	0:30	45	0.0	39.0	14.81	0	0	0	
2003-Oct-29	0:30								Reset Total, Vol = 39.05 bbl
2003-Oct-29	0:30	45	0.0	39.0	14.78	0	0	0	
2003-Oct-29	0:30								Reset Total, Vol = 0.00 bbl
2003-Oct-29	0:30	49	0.0	0.0	14.71	0	0	0	
2003-Oct-29	0:30	49	0.0	0.0	14.61	0	0	0	
2003-Oct-29	0:30								Reset Total, Vol = 0.00 bbl
2003-Oct-29	0:31	49	0.0	0.0	12.86	0	0	0	
2003-Oct-29	0:32	50	0.0	0.0	8.98	0	0	0	
2003-Oct-29	0:32	55	4.7	2.4	8.88	0	0	0	
2003-Oct-29	0:33	73	5.0	6.6	8.44	0	0	0	
2003-Oct-29	0:34	78	5.4	11.1	8.47	0	0	0	
2003-Oct-29	0:35	87	5.4	15.6	8.43	0	0	0	
2003-Oct-29	0:36	82	5.4	20.2	8.43	0	0	0	
2003-Oct-29	0:37	78	5.4	24.7	8.43	0	0	0	
2003-Oct-29	0:37	78	5.4	29.2	8.42	0	0	0	
2003-Oct-29	0:38	82	5.4	33.7	8.42	0	0	0	
2003-Oct-29	0:39	87	5.4	38.3	8.42	0	0	0	
2003-Oct-29	0:40	110	5.4	42.8	8.42	0	0	0	
2003-Oct-29	0:41	137	5.5	47.4	8.42	0	0	0	
2003-Oct-29	0:42	160	5.5	51.9	8.42	0	0	0	
2003-Oct-29	0:42	188	5.5	56.5	8.42	0	0	0	
2003-Oct-29	0:43	224	5.5	61.1	8.42	0	0	0	
2003-Oct-29	0:44	261	5.5	65.7	8.42	0	0	0	
2003-Oct-29	0:45	284	5.5	70.3	8.42	0	0	0	
2003-Oct-29	0:46	256	2.9	74.7	8.42	0	0	0	
2003-Oct-29	0:47	307	4.1	78.0	8.42	0	0	0	
2003-Oct-29	0:47	256	2.1	80.5	8.42	0	0	0	
2003-Oct-29	0:48	279	2.2	82.3	8.42	0	0	0	
2003-Oct-29	0:49	284	2.2	84.1	8.42	0	0	0	
2003-Oct-29	0:50	302	2.1	85.8	8.42	0	0	0	
2003-Oct-29	0:51	316	2.1	87.8	8.42	0	0	0	
2003-Oct-29	0:51								End Displacement

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Well WMSU #1107		Field		Service Date 03301-Oct-28		Customer OXY USA, INC.		Job Number 2205543880	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	0	0	0	Message
2003-Oct-29	0:51	815	0.0	88.1	8.42	0	0	0	KCC FEB 09 2004 CONFIDENTIAL
2003-Oct-29	0:52	815	0.0	88.1	8.42	0	0	0	
2003-Oct-29	0:53	783	0.0	88.1	8.41	0	0	0	
2003-Oct-29	0:53								
2003-Oct-29	0:53	0	0.0	88.1	8.41	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	219	0	10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
2000		200	815			lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	70	bbl	
%	219 bbl	90.1 bbl	°F		<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor						
Rep, Company			Gonzales, Paul			<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	

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Service Order

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2003-Oct-27

Customer OXY USA, INC.		Person Taking Call Sola Lasisi, Tajudeen		Dowell Location Perryton, TX		OrderDate 2003-Oct-27		Job Number 2205543880	
Well Name and Number WMSU 1107			Legal Location		Field		County MORTON CO		State/Province KANSAS
Well Master: 0630542640			API / UWI:						
Rig Name		Well Age New	Sales Engineer Cothren, Randy,			Job Type Cem Surface Casing			
Time Well Ready:		Deviation °	Bit Size 12.3 in	Well MD 1,460 ft	Well TVD 1,460 ft	BHP 1000 psi	BHST 100 °F	BHCT 86 °F	
Treat Down Casing	Packer Type None	Packer Depth 0 ft	WellHead Connection 8 5/8 HS&M		HHP on Location	Max Allowed Pressure 1000		Max Allowed AnnPressure	
Casing					Services Instructions: CEMENT 8 5/8 IN SURFACE CASING WITH: 335 SKS (PANHANDLE LITE) CLASS C + 1.0% D30 + 2.0% D79 + 2.0% D53 + 3% S001 + 6 PPS D044 + 0.2%D46 + 0.25 PPS D29 150 SKS CLASS C + 2% S001+ 0.25 PPS D29				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
1460	8.625	24	K55	8RD	Extra Equipment: 2 ABTS 1 PUMP 1 CEMCAT				
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
Perforated Intervals									
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval					
				ft					
				Diameter					
				in					
Expected On Location:					Ready To Pump:				

Contact	Voice	Mobile	FAX	Notes
Company Rep				

Notes:
 FLOAT EQUIPMENT===== 1 TOP PLUG

Directions:
 FROM WILLBURTON===1 MILE WEST ON HWY 56 ===== 2 MILES SOUTH =====EAST INTO LOCATION

Other Notes:
 PLEASE FOLLOW CONVOY POLICIES AND BE SAFE!!!

Comments:

BULK PLANT===== LOAD LEAD PANHANDLE LITE IN 1 ABT ===== TAIL IN ANOTHER ABT

Fluid Systems:

PANHANDLE			
335 SKS CLASS C + 1.0% D30 + 2.0% D79 + 2.0% D053 + 3.0% S001 + 6 PPS D044 + 0.2% D46 + 0.25 PPS D29			
<i>Density:</i>	11.4	lb/gal	<i>Thickening Time:</i>
<i>Yield:</i>	3.07	ft ³ /sk	
<i>H2O Mix:</i>	18.23	gal/sk	
<i>H2O:</i>	6107.05	gal	<i>Eq. Sack Weight:</i> 94 lb
		<i>Total Blend:</i>	335 sacks
Dowell Code	Concl	Amount	Total Quantity
D029	0.25	lbs/sk	83.75
D046	0.188	lbs/sk	62.98
D044	6	lbs/sk	2010
S001	2.82	lbs/sk	944.7
D053	1.88	lbs/sk	629.8
D079	1.88	lbs/sk	629.8
D030	0.94	lbs/sk	314.9
CLASS C	94	lbs/sk	31490

TAIL			
150 SKS CLASS C+2%S1 + 0.25 PPS D29			
<i>Density:</i>	14.8	lb/gal	<i>Thickening Time:</i>
<i>Yield:</i>	1.34	ft ³ /sk	
<i>H2O Mix:</i>	6.3	gal/sk	
<i>H2O:</i>	945	gal	<i>Eq. Sack Weight:</i> 94 lb
		<i>Total Blend:</i>	150 sacks
Dowell Code	Concl	Amount	Total Quantity
D029	0.25	lbs/sk	37.5
S001	1.88	lbs/sk	282
CLASS C	94	lbs/sk	14100

Customer OXY USA, INC.						Job Number 2205544144				
Well WMSU 1107			Location (legal)			Schlumberger Location Perryton, TX			Job Start 2003-Nov-05	
Field		Formation Name/Type		Deviation 0 °		Bit Size 7.8 in	Well MD 5,040 ft	Well TVD 5,040 ft		
County MORTON CO		State/Province KANSAS		BHP 2000 psi	BHST 125 °F	BHCT 118 °F	Pore Press. Gradient psi/ft			
Well Master: 0630542640		API / UWI:		Casing/Liner						
Rig Name		Drilled For Oil & Gas		Service Via		Depth, ft 5038	Size, in 5.5	Weight, lb/ft 15.5	Grade KCC FEB 0 9 2004	
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe				
Drilling Fluid Type		Max. Density lb/gal		Plastic Vt: cp		Depth,	Size, in	Weight, lb/ft	Grade CONFIDENTIAL	
Service Line Cementing		Job Type Cem Prod Casing		Perforations/Open Hole						
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		WellHead Connection 5 1/2 HS&M		Top, ft	Bottom, ft	spf	No. of Shots	
Service Instructions CEMENT 5 1/2 IN PRODUCTION CASING WITH: 20 BBLS CW 100 CEMENT: 155 SACKS 50:50 POZ H +2%D20+5 PPS D42+5 PPS D53+0.25%D59+0.25%D65+3%M117+0.2%D46 20 SKS 50/50 POZ + ADDS FOR RAT/MOUSE HOLE								Total Interval ft		
								Diameter in		
						Treat Down Casing	Displacement 118.9 bbl	Packer Type None	Packer Depth 0 ft	
						Tubing Vol. bbl	Casing Vol. 120 bbl	Annular Vol. 155 bbl	OpenHole Vol 275 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: 500 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:		Squeeze Type		
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 5038 ft		Tool Type:		
Cement Head Type: Single		Stage Tool Type:		Tool Depth: ft		Stage Tool Depth: ft		Tail Pipe Size: in		
Job Scheduled For:		Arrived on Location: 2003-Nov-05 1:30		Leave Location: 2003-Nov-05 5:00		Collar Type:		Tail Pipe Depth: ft		
						Collar Depth: 4995 ft		Sqz Total Vol: bbl		
Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	Volume bbl	0	0	0	Message	
2003-Nov-05	3:10	64	0.0	8.77	0.0	0	0	0		
2003-Nov-05	3:10	64	0.0	8.77	0.0	0	0	0		
2003-Nov-05	3:10								Reset Total, Vol = 0.00 bbl	
2003-Nov-05	3:10	64	0.0	8.75	0.0	0	0	0		
2003-Nov-05	3:10								Start Job	
2003-Nov-05	3:10	471	0.1	8.66	0.2	0	0	0		
2003-Nov-05	3:11	357	0.0	8.64	0.2	0	0	0		
2003-Nov-05	3:11	897	0.3	8.64	0.2	0	0	0		
2003-Nov-05	3:12	348	0.0	8.63	0.3	0	0	0		
2003-Nov-05	3:12	339	0.0	8.63	0.3	0	0	0		
2003-Nov-05	3:13	73	0.0	8.57	0.3	0	0	0		
2003-Nov-05	3:13	5	0.0	7.93	0.3	0	0	0		
2003-Nov-05	3:14	32	0.0	9.50	0.3	0	0	0		
2003-Nov-05	3:14	5	0.0	1.49	0.3	0	0	0		
2003-Nov-05	3:15	-5	0.0	1.11	0.3	0	0	0		
2003-Nov-05	3:15	-5	0.0	1.01	0.3	0	0	0		
2003-Nov-05	3:16	-5	0.0	10.12	0.3	0	0	0		
2003-Nov-05	3:16								Reset Total, Vol = 0.25 bbl	
2003-Nov-05	3:16	-5	0.0	9.65	0.3	0	0	0		
2003-Nov-05	3:16	-5	0.0	9.49	0.3	0	0	0		
2003-Nov-05	3:17	37	0.3	8.41	0.3	0	0	0		
2003-Nov-05	3:17	78	2.8	8.41	0.6	0	0	0		

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Well		Field			Service Date		Customer		Job Number
WMSU #1107					03309-Nov-05		OXY USA, INC.		2205544144
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-05	3:17								Start Pumping Wash
2003-Nov-05	3:17	78	2.8	8.41	1.3	0	0	0	
2003-Nov-05	3:18	142	3.5	8.41	2.8	0	0	0	
2003-Nov-05	3:18	124	3.6	8.41	4.5	0	0	0	
2003-Nov-05	3:19	133	3.6	8.41	6.3	0	0	0	
2003-Nov-05	3:19	124	4.4	8.41	8.1	0	0	0	
2003-Nov-05	3:20	266	5.8	8.41	10.7	0	0	0	
2003-Nov-05	3:20	224	5.9	8.41	13.6	0	0	0	
2003-Nov-05	3:21	252	5.9	8.41	16.5	0	0	0	
2003-Nov-05	3:21	229	5.9	8.41	19.5	0	0	0	
2003-Nov-05	3:22	270	6.0	8.99	22.4	0	0	0	
2003-Nov-05	3:22	197	6.0	10.75	25.5	0	0	0	
2003-Nov-05	3:23	224	4.9	8.71	28.3	0	0	0	
2003-Nov-05	3:23	165	4.1	8.62	30.7	0	0	0	
2003-Nov-05	3:23	174	4.1	8.60	31.1	0	0	0	
2003-Nov-05	3:23								End Wash
2003-Nov-05	3:23	174	4.1	8.61	31.2	0	0	0	
2003-Nov-05	3:23								Reset Total, Vol = 30.98 bbl
2003-Nov-05	3:23	174	4.1	8.72	0.2	0	0	0	
2003-Nov-05	3:23								Start Cement Slurry
2003-Nov-05	3:24	270	6.1	10.08	1.7	0	0	0	
2003-Nov-05	3:24	183	4.5	11.43	4.4	0	0	0	
2003-Nov-05	3:25	206	4.8	12.31	6.9	0	0	0	
2003-Nov-05	3:25	211	4.8	13.14	9.3	0	0	0	
2003-Nov-05	3:26	192	4.8	13.66	11.7	0	0	0	
2003-Nov-05	3:26	174	4.9	14.20	14.1	0	0	0	
2003-Nov-05	3:27	169	4.9	13.93	16.6	0	0	0	
2003-Nov-05	3:27	128	4.9	13.87	19.0	0	0	0	
2003-Nov-05	3:28	128	4.9	13.84	21.4	0	0	0	
2003-Nov-05	3:28	119	4.9	13.95	23.9	0	0	0	
2003-Nov-05	3:29	133	4.9	13.98	26.3	0	0	0	
2003-Nov-05	3:29	114	4.9	14.00	28.7	0	0	0	
2003-Nov-05	3:30	128	4.9	13.82	31.2	0	0	0	
2003-Nov-05	3:30	110	4.9	13.83	33.6	0	0	0	
2003-Nov-05	3:31	119	4.9	13.89	36.0	0	0	0	
2003-Nov-05	3:31	124	4.9	13.97	38.5	0	0	0	
2003-Nov-05	3:32	124	4.9	14.06	41.0	0	0	0	
2003-Nov-05	3:32	133	4.9	14.13	43.4	0	0	0	
2003-Nov-05	3:33	110	5.0	14.08	45.9	0	0	0	
2003-Nov-05	3:33	128	4.9	13.93	48.4	0	0	0	
2003-Nov-05	3:33								End Cement Slurry
2003-Nov-05	3:33	32	0.0	13.83	49.4	0	0	0	
2003-Nov-05	3:33	23	0.0	13.82	49.4	0	0	0	
2003-Nov-05	3:33								Reset Total, Vol = 49.37 bbl
2003-Nov-05	3:39	96	6.1	8.42	0.5	0	0	0	
2003-Nov-05	3:39								Drop Top Plug
2003-Nov-05	3:39								Start Displacement
2003-Nov-05	3:39	96	6.1	8.42	0.7	0	0	0	
2003-Nov-05	3:39	92	5.8	8.42	1.1	0	0	0	
2003-Nov-05	3:39	87	5.8	8.44	4.0	0	0	0	
2003-Nov-05	3:40	78	5.8	8.42	6.9	0	0	0	
2003-Nov-05	3:40	82	5.8	8.42	9.8	0	0	0	
2003-Nov-05	3:41	82	5.8	8.42	12.6	0	0	0	
2003-Nov-05	3:41	82	5.8	8.42	15.5	0	0	0	

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Well		Field			Service Date		Customer			Job Number
WMSU #1107					03309-Nov-05		OXY USA, INC.			2205544144
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-05	3:42	82	5.8	8.42	21.8	0	0	0		
2003-Nov-05	3:42	78	5.8	8.42	24.7	0	0	0		
2003-Nov-05	3:43	82	5.8	8.42	27.6	0	0	0		
2003-Nov-05	3:43	78	5.8	8.42	30.5	0	0	0		
2003-Nov-05	3:44	82	5.8	8.42	33.4	0	0	0		
2003-Nov-05	3:44	82	5.8	8.42	36.3	0	0	0		
2003-Nov-05	3:45	78	5.9	8.42	39.2	0	0	0		
2003-Nov-05	3:45	82	5.8	8.42	42.1	0	0	0		
2003-Nov-05	3:46	78	5.8	8.42	45.0	0	0	0		
2003-Nov-05	3:46	82	5.9	8.42	47.9	0	0	0		
2003-Nov-05	3:47	78	5.8	8.42	50.9	0	0	0		
2003-Nov-05	3:47	78	5.9	8.42	53.9	0	0	0		
2003-Nov-05	3:48	78	5.8	8.42	56.8	0	0	0		
2003-Nov-05	3:48	82	5.8	8.42	59.7	0	0	0		
2003-Nov-05	3:49	73	5.8	8.42	62.6	0	0	0		
2003-Nov-05	3:49	82	5.8	8.42	65.5	0	0	0		
2003-Nov-05	3:50	78	5.8	8.42	68.4	0	0	0		
2003-Nov-05	3:50	78	5.8	8.42	71.3	0	0	0		
2003-Nov-05	3:51	78	5.8	8.42	74.2	0	0	0		
2003-Nov-05	3:51	82	5.8	8.42	77.0	0	0	0		
2003-Nov-05	3:52	73	5.8	8.42	80.0	0	0	0		
2003-Nov-05	3:52	78	5.8	8.42	82.9	0	0	0		
2003-Nov-05	3:53	78	5.9	8.42	85.8	0	0	0		
2003-Nov-05	3:53	78	5.9	8.42	88.7	0	0	0		
2003-Nov-05	3:54	82	5.9	8.42	91.7	0	0	0		
2003-Nov-05	3:54	252	5.8	8.42	94.6	0	0	0		
2003-Nov-05	3:55	275	5.9	8.42	97.5	0	0	0		
2003-Nov-05	3:55	330	5.9	8.42	100.5	0	0	0		
2003-Nov-05	3:56	398	5.9	8.42	103.5	0	0	0		
2003-Nov-05	3:56	471	6.0	8.42	106.4	0	0	0		
2003-Nov-05	3:57	508	6.0	8.42	109.4	0	0	0		
2003-Nov-05	3:57	362	2.1	8.42	110.5	0	0	0		
2003-Nov-05	3:58	380	2.1	8.42	111.6	0	0	0		
2003-Nov-05	3:58	394	2.1	8.42	112.7	0	0	0		
2003-Nov-05	3:59	412	2.1	8.42	113.8	0	0	0		
2003-Nov-05	3:59	426	2.1	8.42	114.8	0	0	0		
2003-Nov-05	4:00	449	2.1	8.42	115.9	0	0	0		
2003-Nov-05	4:00	467	2.1	8.42	116.9	0	0	0		
2003-Nov-05	4:01	481	2.1	8.42	118.0	0	0	0		
2003-Nov-05	4:01	989	0.0	8.42	118.5	0	0	0		
2003-Nov-05	4:02	993	0.0	8.42	118.5	0	0	0		
2003-Nov-05	4:02									
2003-Nov-05	4:02	989	0.0	8.42	118.5	0	0	0	Bump Top Plug	
2003-Nov-05	4:02									
2003-Nov-05	4:02	989	0.0	8.42	118.5	0	0	0	End Displacement	
2003-Nov-05	4:02									
2003-Nov-05	4:02	989	0.0	8.42	118.5	0	0	0	Reset Total, Vol = 118.47 bbl	
2003-Nov-05	4:02									
2003-Nov-05	4:02	27	0.0	8.42	0.0	0	0	0		
2003-Nov-05	4:03	-9	0.0	8.42	0.0	0	0	0		
2003-Nov-05	4:03	-9	0.0	8.42	0.0	0	0	0		
2003-Nov-05	4:03									
2003-Nov-05	4:03	-9	0.0	8.42	0.0	0	0	0	End Job	

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Well		Field		Service Date		Customer		Job Number	
WMSL #				03309-Nov-05		OXY USA, INC.		2205544144	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	Volume				Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
						0	0	0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2			
5	0	0	6	43	0	25			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			1000		bbl	lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume bbl <input type="checkbox"/> Washed Thru Perfs To ft					
%	43 bbl	118.9 bbl	°F						
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			
REP, COMPANY			Ahrends, Timothy						

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