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ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY – DESCRIPTION OF WELL & LEASE

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: UGGS
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: NA

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

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

Original Comp. Date: _____ Original Total Depth: _____
_____ Deepening _____ Re-perf. _____ Conv. To Enhr./SWD
_____ Plug Back _____ Plug Back Total Depth
_____ Commingled Docket No. _____
_____ Dual Completion Docket No. _____
_____ Other (SWD or Enhr.?) Docket No. _____

05/12/04	05/15/04	06/07/04
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 067-21556-0000
County: Grant
SE - SE - NW - NW Sec 23 Twp. 28 S. R 35W
1250 feet from S / (N) *(circle one)* Line of Section
1250 feet from E / (W) *(circle one)* Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: McCandless A Well #: 5
Field Name: Panoma Council Grove
Producing Formation: Council Grove
Elevation: Ground: 3041 Kelly Bushing: 3052
Total Depth: 3105 Plug Back Total Depth: 3060
Amount of Surface Pipe Set and Cemented at 826 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.

ALT I 11-29-06 WHM

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 12500 mg/l ppm Fluid volume 850 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 an 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 CEMENTINGTICKETS 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 August 10, 2004
Subscribed and sworn to before me this 10th day of Aug
20 04
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2005

ANITA PETERSON
MY COMMISSION EXPIRES
October 1, 2005

KCC Office Use Only

✓ Letter of Confidentiality Attached
If Denied, Yes ☐ Date:
✓ Wireline Log Received
✓ Geologist Report Received
_____ UIC Distribution

Side Two

Operator Name: OXY USA Inc. Lease Name: McCandless A Well #: 5

Sec. 23 Twp. 28 S. R. 35W ☐ East ☐ West County: Grant

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

Drill Stem Tests Taken (Attach Additional Sheets) ☐ Yes ☒ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy) ☒ Yes ☐ No

List All E. Logs Run: Neutron CBL

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Chase	2590	462
Krider	2611	441
Winfield	2663	389
Towanda	2718	334
Ft. Riley	2769	283
Matfield	2841	211
Wreford	2859	193
Council Grove	2886	166

CASING RECORD ☒ New ☐ 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	826	C C	235 150	Panhandle Lite C + Add. Class C + Add.
Production	7 7/8	4 1/2	10.5	3103	C H	200 260	Class C + Add 50/50 Poz Class H + Add.

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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	2890-2900, 2902-2916, 2919-2924, 2928-2935,	Acidize - 57 bbls 15% HCL	
	2939-2943	Divert Frac - 24,941# 100 mesh, 25,286 gls	
		30# linear gel, 165,653# 12/20 sand,	
		22,743 gls 30# linear gel w/70Q N2	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	2955		☐ Yes ☒ No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
06/10/04	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil BBLS	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
		153	21		

Disposition of Gas

☐ Vented ☒ Sold ☐ Used on Lease
(If vented, Submit ACO-18)

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

Production Interval

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Service Order

2004-May-14

Customer	Person Taking Call	Dowell Location	Order Date	Job Number
OXY USA, INC.	Ousley, John	Perryton, TX	2004-May-10	2205545885

Well Name and Number	Legal Location	Field	County	State/Province
McCANDLES A-5			GRANT	KANSAS

Well Master:	API / UWI:	
0630593692		

Rig Name	Well Age	Sales Engineer	Job Type
	New	Cambern, Charles	Cem Prod Casing

Time Well Ready:	Deviation	Bit Size	Well MD	Well TVD	BHP	BHST	BHCT
	°	7.88 in	3,100 ft	3,100 ft	psi	111 °F	°F

Treat Down	Packer Type	Packer Depth	WellHead Connection	HHP on Location	Max AllowedPressure	Max Allowed AnnPressure
Casing		ft	4 1/2 HS&M		2000	

Casing

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
3100	4.5	10.5		

Tubing

Depth,	Size, in	Weight, lb/ft	Grade	Thread

Perforated Intervals

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
				ft
				Diameter
				in

Services Instructions:

CEMENT 4 1/2 PROD. CASING WITH:
25 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29
200 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29
260 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 2% KCL & 1 lb. B69

Extra Equipment:

1 PUMP
2 ABT
1 CEMCAT

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Expected On Location:

Ready To Pump:

Contact	Voice	Mobile	FAX	Notes
Greg Fillpot		1 620 353 8669		
Wes Willimon		1 620 655 1756		

Notes:

4 1/2 FE= 1 TOP PLUG & BOTTOM PLUG
25 SKS FOR RAT/MOUSE HOLE
2/1000 L64 & 1 LB B69

Directions:

FROM PERRYTON TX === NORTH ON HWY 83 TO SUBLETTE, KS.=== 6 NORTH TO JCT HWY 83/160W === 14 WEST ON HWY 160 === 2 3/4 NORTH == EAST INTO

101

Other Notes:

FOLLOW ALL CONVOY POLICIES AND BE SAFE!!!

Comments:

Fluid Systems:

DISPLACE

2/1000 L64 & 1 LB B69

Density:		lb/gal	*Thickening Time:*		
Yield:		ft³/sk			
H2O Mix:	0	gal/sk			
H2O:	0	gal	*Eq. Sack Weight:*	0	lb
			Total Blend:	0	sacks

Dowell Code	Conc/ Amount		Total Quantity
B069	1	lbs	1
L064	5	gal	5

LEAD

225 SACKS CLASS C+3%D79+0.2%D46+0.25ppsD29

Density:	12	lb/gal	*Thickening Time:*		
Yield:	2.61	ft³/sk			
H2O Mix:	15.16	gal/sk			
H2O:	3411	gal	*Eq. Sack Weight:*	94	lb
			Total Blend:	225	sacks

Dowell Code	Conc/ Amount		Total Quantity
D079	2.82	lbs/sk	634.5
D029	0.25	lbs/sk	56.25
D046	0.188	lbs/sk	42.3
CLASS C	94	lbs/sk	21150

TAIL

260 SACKS 50:50 POZ H+2%D20+5 PPS D42+5 PPS D53+0.25%D112+0.25%D65+3%M117KCL+0.25%D46

Density:	13.8	lb/gal	*Thickening Time:*		
Yield:	1.55	ft³/sk			
H2O Mix:	7.1	gal/sk			
H2O:	1846	gal	*Eq. Sack Weight:*	86.5	lb
			Total Blend:	260	sacks

Dowell Code	Conc/ Amount		Total Quantity
CLASS H	47	lbs/sk	12220
M117	2.595	lbs/sk	674.7
D065	0.216	lbs/sk	56.16
D112	0.216	lbs/sk	56.16
D053	5	lbs/sk	1300
D046	0.216	lbs/sk	56.16
D042	5	lbs/sk	1300
POZ	39.5	lbs/sk	10270
D020	1.73	lbs/sk	449.8

WASH

20 BBLS CW100

Density:		lb/gal	*Thickening Time:*		
Yield:		ft³/sk			
H2O Mix:	0	gal/sk			
H2O:	0	gal	*Eq. Sack Weight:*	0	lb
			Total Blend:	0	sacks

Dowell Code	Conc/ Amount		Total Quantity
J237A	5	gal	5
D122A	10	gal	10

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Schlumberger — Cementing Service Report

Customer	Job Number
OXY USA, INC.	2205545885

Well	Location (legal)	Schlumberger Location	Job Start
McCANDLES A-5		Perryton, TX	2004-May-15

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		°	7.88 in	3,105 ft	3,105 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
GRANT	KANSAS	psi	111 °F	°F	psi/ft

Well Master: 0630593692 | API / UWI:

Rig Name	Drilled For	Service Via
	Oil	

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Vi
	lb/gal	cp

Service Line	Job Type
Cementing	Cem Prod Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
2000 psi	psi	4 1/2 HS&M

Service Instructions

CEMENT 4 1/2 PROD. CASING WITH:
25 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29
200 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29
260 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 2% KCL & 1 lb. B69

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
3100	4.5	10.5		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
				ft
				Diameter
				in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	48.51 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
bbl	bbl	bbl	bbl

Casing/Tubing Secured ☐ | 1 Hole Volume Circulated prior to Cementing ☐

Lift Pressure: psi

Pipe Rotated ☐ | Pipe Reciprocated ☐

No. Centralizers: | Top Plugs: 1 | Bottom Plugs: 1

Cement Head Type: Double

Job Scheduled For:	Arrived on Location:	Leave Location:
	2004-May-15 14:00	2004-May-15 17:30

Casing Tools

Shoe Type:	Guide
Shoe Depth:	3103 ft
Stage Tool Type:	
Stage Tool Depth:	ft
Collar Type:	Float
Collar Depth:	3060.73 ft

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	ft
Tail Pipe Size:	in
Tail Pipe Depth:	ft
Sqz Total Vol:	bbl

Date	Time (24 hr clock)	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message
2004-May-15	15:25								start chem wash
2004-May-15	15:25	-24	0.1	8.43	0.1	0	0	0	
2004-May-15	15:26	-24	0.0	8.44	0.1	0	0	0	
2004-May-15	15:28	571	0.3	8.45	0.3	0	0	0	
2004-May-15	15:30	45	4.2	8.19	1.5	0	0	0	
2004-May-15	15:32	40	5.2	8.47	10.9	0	0	0	
2004-May-15	15:34	68	3.4	8.46	21.0	0	0	0	
2004-May-15	15:36	-28	0.2	8.47	0.0	0	0	0	
2004-May-15	15:36								cement mouse and rat holes
2004-May-15	15:36	-24	0.2	8.46	0.0	0	0	0	
2004-May-15	15:38	-24	0.5	8.43	0.4	0	0	0	
2004-May-15	15:40	-15	0.0	12.69	1.9	0	0	0	
2004-May-15	15:42	17	2.0	12.93	2.2	0	0	0	
2004-May-15	15:44	-15	0.2	9.63	4.7	0	0	0	
2004-May-15	15:46	114	4.0	13.20	11.3	0	0	0	start lead cement
2004-May-15	15:48	49	3.9	11.97	19.4	0	0	0	
2004-May-15	15:50	118	5.8	12.08	28.8	0	0	0	
2004-May-15	15:52	95	5.6	12.04	40.4	0	0	0	
2004-May-15	15:54	118	5.7	12.05	51.9	0	0	0	
2004-May-15	15:56	109	5.6	11.89	63.3	0	0	0	
2004-May-15	15:58	104	5.7	11.94	74.6	0	0	0	
2004-May-15	16:00	104	5.7	11.88	85.9	0	0	0	

Well	Field	Service Date	Customer	Job Number
McCANDLES #A-5		04136-May-15	OXY USA, INC.	2205545885

Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2004-May-15	16:02								Reset Total, Vol = 96.18 bbl
2004-May-15	16:02	114	5.6	12.98	96.2	0	0	0	
2004-May-15	16:02	136	5.6	13.55	0.9	0	0	0	
2004-May-15	16:02								tail cement
2004-May-15	16:02	141	5.5	13.69	1.2	0	0	0	
2004-May-15	16:04	155	5.6	13.75	12.1	0	0	0	
2004-May-15	16:06	150	5.4	13.52	23.2	0	0	0	
2004-May-15	16:08	164	5.4	13.81	34.2	0	0	0	
2004-May-15	16:10	173	5.6	13.91	45.3	0	0	0	
2004-May-15	16:12	173	5.6	13.82	56.5	0	0	0	
2004-May-15	16:14	178	5.5	13.76	67.6	0	0	0	end tail cement
2004-May-15	16:16	-19	0.1	11.49	72.0	0	0	0	
2004-May-15	16:18	187	5.5	8.57		0	0	0	pump out lines
2004-May-15	16:20	-28	0.2	8.47		0	0	0	
2004-May-15	16:21	-5	3.8	8.47	0.9	0	0	0	
2004-May-15	16:21								displace
2004-May-15	16:22	114	5.6	8.47	6.5	0	0	0	
2004-May-15	16:24	347	5.5	8.47	17.7	0	0	0	
2004-May-15	16:26	718	5.5	8.47	28.7	0	0	0	
2004-May-15	16:28	837	5.4	8.45	39.6	0	0	0	
2004-May-15	16:30	796	2.3	8.47	45.2	0	0	0	
2004-May-15	16:32	1153	0.0	8.47	48.5	0	0	0	
2004-May-15	16:32								Reset Total, Vol = 48.51 bbl
2004-May-15	16:32	1157	0.0	8.47	48.5	0	0	0	
2004-May-15	16:34	-10	0.0	8.46	0.0	0	0	0	

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Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
5			6

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
165			

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
700		400		

Breakdown Fluid

Volume	Density
bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface? Volume
%	165 bbl	48.5 bbl	°F	☑ 15 bbl

☐ Washed Thru Perfs To ft

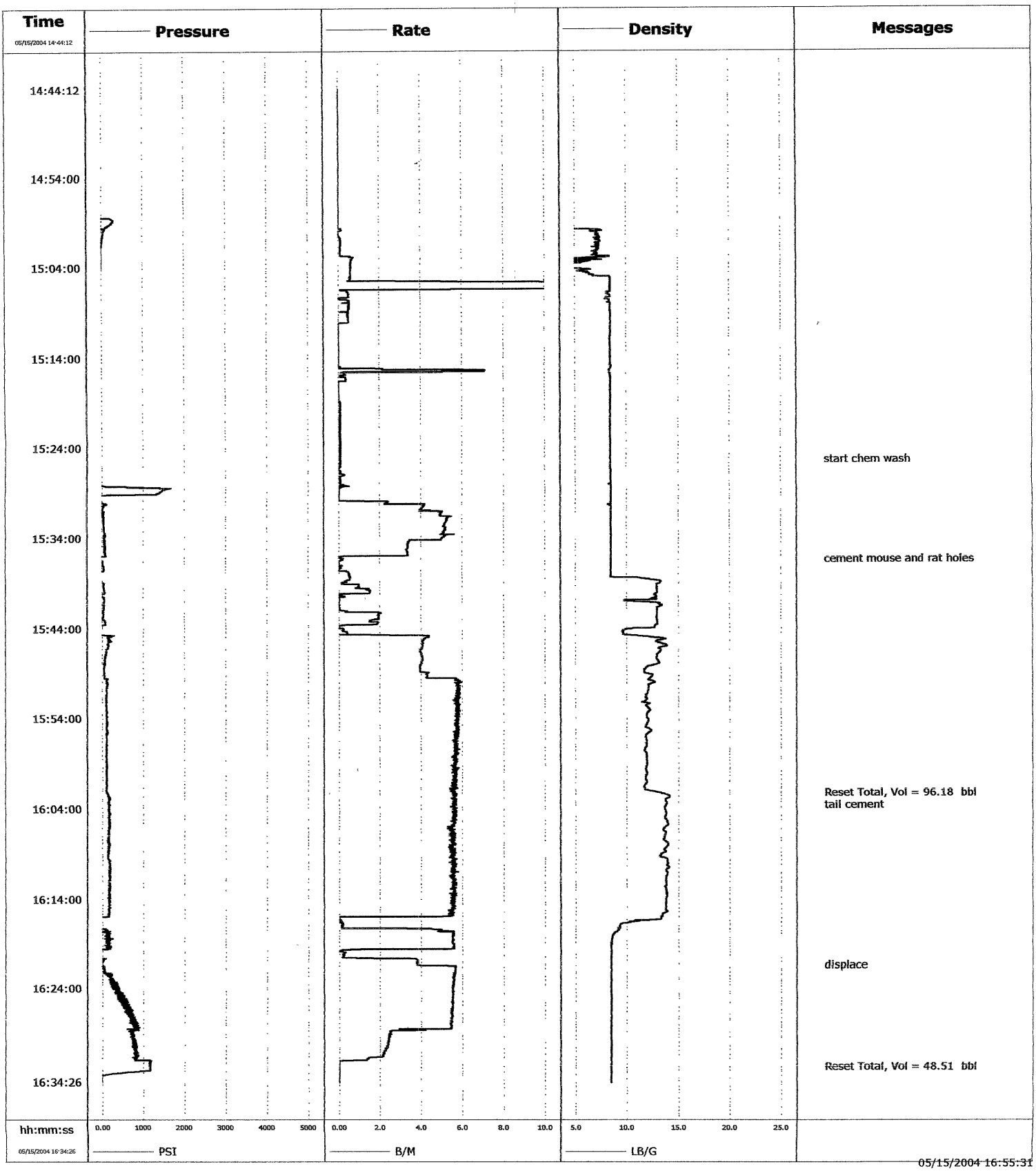
Customer or Authorized Representative	Schlumberger Supervisor		
Fillpot, Greg	king, mike	☐ CirculationLost	☑ Job Completed

Schlumberger

Cementing Job Report

CemCAT v1.0

Well	McCandles A-5	**Client**	Oxy USA
Field		**SIR No.**	2205545885
Engineer		**Job Type**	production
Country	United States	**Job Date**	05-15-2004



05/15/2004 16:55:31

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Date	05/13/04
Company	OXY
Job Number	2205545884
Well Name	McCandles
Well Number	A-5
County	Grant
State	KS

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Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	826	
Shoe Length	42	
Insert Depth	784	
Hole Size	12 1/4	
Hole Depth	830	

	Pipe Volume	53
113	Annular Volume	61
	Total Cement	145
	Total Water	157

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

Casing lift	339
Cement lift	206

1st System		
235 sacks	C	
2.61 yield		
12 weight		
15.2 water	84.8	
cubic ft.	613	
height	1486	
bbls	109	

2nd System		
150 sacks	C	
1.34 yield	S1,D29	
14.8 weight		
6.3 water	23	
cubic ft.	201	
height	487	
bbls	35.8	

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

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Test 2000 psi

0 Mud

10 Spacer

109 Lead 12

36 Tail 14.8

49.9 Displacement

1500 Maximum Pressure

Pump time @ 6 BPM 32 MIN

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Schlumberger

Cementing Service Report

Customer	Job Number
OXY USA, INC.	2205545884

Well	Location (legal)	Schlumberger Location	Job Start
McCANDLES A-5		Perryton, TX	2004-May-13

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		°	12.3 in	830 ft	830 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
GRANT	KANSAS	psi	°F	°F	psi/ft

Well Master:	API / UWI:
0630593692	

Rig Name	Drilled For	Service Via
MURFIN 22	Oil	

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Vi:
	lb/gal	cp

Service Line	Job Type
Cementing	Cem Surface Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
1000 psi	psi	8 5/8 HS&M

Service Instructions

CEMENT 8 5/8 CASING WITH:
185 SKS PANHANDLE LITE + 0.2% D46 + 0.5 PPS D29
150 SKS CLASS C + 2% S1 + 0.25 PPS D29

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
826	8.63	24		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
				ft
				Diameter
				in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	50 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
bbl	53 bbl	61 bbl	113 bbl

Casing/Tubing Secured ☑ 1 Hole Volume Circulated prior to Cementing ☑

Lift Pressure: 300 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers:	Top Plugs: 1	Bottom Plugs: 0

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:
	2004-May-12 23:00	2004-May-13 3:30

Casing Tools

Shoe Type:	
Shoe Depth:	826 ft
Stage Tool Type	
Stage Tool Depth:	ft
Collar Type:	
Collar Depth:	784 ft

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	ft
Tail Pipe Size:	in
Tail Pipe Depth:	ft
Sqz Total Vol:	bbl

Date	Time (24 hr clock)	Treating Pressure (psi)	Flow Rate (bbl/min)	Volume (bbl)	CMT DENS (lb/gal)	0	0	0	Message
2004-May-13	1:22	0	0.0	0.0	9.03	0	0	0	
2004-May-13	1:22	0	0.0	0.0	9.03	0	0	0	
2004-May-13	1:22								Start Job
2004-May-13	1:22	0	0.0	0.0	9.03	0	0	0	
2004-May-13	1:23	0	0.0	0.0	9.03	0	0	0	
2004-May-13	1:23	0	0.0	0.0	9.03	0	0	0	
2004-May-13	1:24	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:24	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:25	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:25	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:26	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:26	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:27	5	0.0	0.0	9.02	0	0	0	
2004-May-13	1:27	69	0.0	0.0	9.02	0	0	0	
2004-May-13	1:28	1474	0.0	0.1	9.02	0	0	0	
2004-May-13	1:28	1945	0.0	0.1	9.02	0	0	0	
2004-May-13	1:29	1913	0.0	0.1	9.02	0	0	0	
2004-May-13	1:29								Pressure Test Lines
2004-May-13	1:29	1904	0.0	0.1	9.02	0	0	0	
2004-May-13	1:30	1891	0.0	0.1	9.02	0	0	0	
2004-May-13	1:30	1886	0.0	0.1	9.02	0	0	0	
2004-May-13	1:31	9	0.0	0.1	9.02	0	0	0	

Well	Field	Service Date	Customer	Job Number
McCANDLES #A-5		04134-May-13	OXY USA, INC.	2205545884

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	0	0	0	
2004-May-13	1:31	9	0.0	0.1	9.02	0	0	0	
2004-May-13	1:32	9	0.0	0.1	9.02	0	0	0	
2004-May-13	1:32								Start Pumping Spacer
2004-May-13	1:32	9	0.0	0.1	9.02	0	0	0	
2004-May-13	1:32	5	0.0	0.1	9.01	0	0	0	
2004-May-13	1:33	5	0.0	0.1	9.01	0	0	0	
2004-May-13	1:33	55	0.0	0.1	9.01	0	0	0	
2004-May-13	1:34	64	3.0	0.3	9.01	0	0	0	
2004-May-13	1:34	188	5.5	2.3	9.00	0	0	0	
2004-May-13	1:35	160	5.5	5.0	8.99	0	0	0	
2004-May-13	1:35	188	5.5	7.8	8.92	0	0	0	
2004-May-13	1:36	183	5.5	10.5	9.15	0	0	0	
2004-May-13	1:36	192	5.5	11.5	10.79	0	0	0	
2004-May-13	1:36								Reset Total, Vol = 11.53 bbl
2004-May-13	1:36								End Spacer
2004-May-13	1:36	201	5.5	0.5	11.61	0	0	0	
2004-May-13	1:36								Start Mixing Lead Slurry
2004-May-13	1:36	252	5.5	0.9	12.42	0	0	0	
2004-May-13	1:37	256	5.5	1.8	13.12	0	0	0	
2004-May-13	1:37	220	5.5	4.6	11.20	0	0	0	
2004-May-13	1:38	229	5.5	7.3	13.40	0	0	0	
2004-May-13	1:38	261	5.5	10.1	13.02	0	0	0	
2004-May-13	1:39	220	5.5	12.8	12.36	0	0	0	
2004-May-13	1:39	201	5.5	15.5	12.17	0	0	0	
2004-May-13	1:40	179	5.5	18.3	11.79	0	0	0	
2004-May-13	1:40	211	5.5	21.0	12.88	0	0	0	
2004-May-13	1:41	183	5.5	23.8	12.75	0	0	0	
2004-May-13	1:41	165	5.5	26.5	12.21	0	0	0	
2004-May-13	1:42	160	5.5	29.3	11.12	0	0	0	
2004-May-13	1:42	55	2.7	31.8	9.61	0	0	0	
2004-May-13	1:43	37	2.7	33.2	9.83	0	0	0	
2004-May-13	1:43	101	4.0	34.9	12.16	0	0	0	
2004-May-13	1:44	165	5.5	37.0	12.31	0	0	0	
2004-May-13	1:44	165	5.5	39.7	12.34	0	0	0	
2004-May-13	1:45	156	5.5	42.5	12.26	0	0	0	
2004-May-13	1:45	151	5.5	45.2	12.36	0	0	0	
2004-May-13	1:46	142	5.5	48.0	12.32	0	0	0	
2004-May-13	1:46	133	5.5	50.7	12.27	0	0	0	
2004-May-13	1:47	137	5.5	53.5	12.05	0	0	0	
2004-May-13	1:47	133	5.5	56.2	12.02	0	0	0	
2004-May-13	1:48	128	5.5	58.9	12.08	0	0	0	
2004-May-13	1:48	124	5.5	61.8	12.02	0	0	0	
2004-May-13	1:49	124	5.5	64.5	11.71	0	0	0	
2004-May-13	1:49	128	5.5	67.3	11.76	0	0	0	
2004-May-13	1:50	128	5.5	70.0	12.31	0	0	0	
2004-May-13	1:50	142	5.5	72.8	12.28	0	0	0	
2004-May-13	1:51	128	5.5	75.5	12.20	0	0	0	
2004-May-13	1:51	137	5.5	78.2	11.93	0	0	0	
2004-May-13	1:52	133	5.5	81.0	11.67	0	0	0	
2004-May-13	1:52	142	5.5	83.7	11.75	0	0	0	
2004-May-13	1:53	128	5.5	86.5	11.82	0	0	0	
2004-May-13	1:53	137	5.5	89.2	12.19	0	0	0	
2004-May-13	1:54	146	5.5	92.0	12.16	0	0	0	
2004-May-13	1:54	137	5.5	94.7	12.08	0	0	0	

Well	Field	Service Date	Customer	Job Number
McCANDLES #A-5		04134-May-13	OXY USA, INC.	2205545884

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	0	0	0	
2004-May-13	1:55	133	5.5	97.4	12.02	0	0	0	
2004-May-13	1:55	142	5.5	100.2	12.03	0	0	0	
2004-May-13	1:56	146	5.5	102.9	12.03	0	0	0	
2004-May-13	1:56	133	5.5	105.7	12.01	0	0	0	
2004-May-13	1:57	142	5.5	108.4	11.99	0	0	0	
2004-May-13	1:57	151	5.5	111.2	11.94	0	0	0	
2004-May-13	1:58	151	5.5	113.9	12.16	0	0	0	
2004-May-13	1:58	146	5.5	116.7	12.45	0	0	0	
2004-May-13	1:59	160	5.5	119.4	12.43	0	0	0	
2004-May-13	1:59	156	5.5	122.1	12.20	0	0	0	
2004-May-13	2:00	146	5.5	125.0	12.13	0	0	0	
2004-May-13	2:00	160	5.5	127.7	12.24	0	0	0	
2004-May-13	2:01	165	5.5	130.5	12.41	0	0	0	
2004-May-13	2:01	160	5.5	133.2	12.45	0	0	0	
2004-May-13	2:02	156	5.5	136.0	12.48	0	0	0	
2004-May-13	2:02	165	5.5	138.7	12.48	0	0	0	
2004-May-13	2:03	151	5.5	141.5	12.47	0	0	0	
2004-May-13	2:03	151	5.5	144.2	11.98	0	0	0	
2004-May-13	2:04	160	5.5	146.9	12.28	0	0	0	
2004-May-13	2:04	165	5.5	149.7	12.61	0	0	0	
2004-May-13	2:05	55	3.4	152.4	12.35	0	0	0	
2004-May-13	2:05	105	3.9	153.9	14.17	0	0	0	
2004-May-13	2:05	110	4.0	154.3	14.59	0	0	0	
2004-May-13	2:05								Start Mixing Tail Slurry
2004-May-13	2:06	137	4.0	155.9	14.53	0	0	0	
2004-May-13	2:06	151	4.0	157.8	16.04	0	0	0	
2004-May-13	2:07	206	5.5	160.4	15.52	0	0	0	
2004-May-13	2:07	165	5.5	163.1	14.41	0	0	0	
2004-May-13	2:08	174	5.4	165.8	15.43	0	0	0	
2004-May-13	2:08	169	5.4	168.5	15.94	0	0	0	
2004-May-13	2:09	183	5.4	171.2	16.13	0	0	0	
2004-May-13	2:09	165	5.4	173.9	15.67	0	0	0	
2004-May-13	2:10	137	5.4	176.6	15.10	0	0	0	
2004-May-13	2:10	183	5.4	179.3	14.90	0	0	0	
2004-May-13	2:11	160	5.4	182.0	15.07	0	0	0	
2004-May-13	2:11	174	5.4	184.8	15.39	0	0	0	
2004-May-13	2:12	174	5.6	187.5	15.49	0	0	0	
2004-May-13	2:12	183	5.5	190.2	15.65	0	0	0	
2004-May-13	2:13	188	5.5	193.0	15.41	0	0	0	
2004-May-13	2:13	14	0.0	194.8	14.72	0	0	0	
2004-May-13	2:13								End Tail Slurry
2004-May-13	2:13	14	0.0	194.8	14.86	0	0	0	
2004-May-13	2:13	9	0.0	194.8	15.00	0	0	0	
2004-May-13	2:13								Reset Total, Vol = 194.81 bbl
2004-May-13	2:14	0	0.0	0.0	15.05	0	0	0	
2004-May-13	2:14	-5	0.0	0.0	15.04	0	0	0	
2004-May-13	2:15	-5	0.0	0.0	15.04	0	0	0	
2004-May-13	2:15	-9	0.0	0.0	15.06	0	0	0	
2004-May-13	2:16	-5	0.0	0.0	15.06	0	0	0	
2004-May-13	2:16	-5	0.0	0.0	15.10	0	0	0	
2004-May-13	2:17	0	1.2	0.2	11.15	0	0	0	
2004-May-13	2:17	105	5.8	1.5	9.03	0	0	0	
2004-May-13	2:17								Drop Top Plug
2004-May-13	2:17	23	5.7	2.5	9.03	0	0	0	

Well	Field	Service Date	Customer	Job Number
McCANDLES #A-5		04134-May-13	OXY USA, INC.	2205545884

Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	0	0	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	0	0	0	
2004-May-13	2:18	114	6.6	5.5	9.00	0	0	0	
2004-May-13	2:18	142	6.6	8.9	9.00	0	0	0	
2004-May-13	2:19	-14	6.6	12.2	3.76	0	0	0	
2004-May-13	2:19	-14	0.0	12.8	0.04	0	0	0	
2004-May-13	2:20	-14	0.0	12.8	0.03	0	0	0	
2004-May-13	2:20	114	6.5	13.6	8.72	0	0	0	
2004-May-13	2:21	101	6.6	16.9	9.01	0	0	0	
2004-May-13	2:21	174	6.6	20.2	9.92	0	0	0	
2004-May-13	2:22	133	6.6	23.5	9.14	0	0	0	
2004-May-13	2:22	169	6.6	26.8	8.98	0	0	0	
2004-May-13	2:23	188	6.6	30.2	8.99	0	0	0	
2004-May-13	2:23	220	6.6	33.6	8.99	0	0	0	
2004-May-13	2:24	279	6.6	36.9	8.99	0	0	0	
2004-May-13	2:24	238	6.6	40.2	9.02	0	0	0	
2004-May-13	2:25	224	6.6	43.5	8.93	0	0	0	
2004-May-13	2:25	224	3.3	46.0	8.70	0	0	0	
2004-May-13	2:26	211	2.5	47.3	8.68	0	0	0	
2004-May-13	2:26	211	2.5	48.5	8.74	0	0	0	
2004-May-13	2:27	183	2.5	49.8	8.81	0	0	0	
2004-May-13	2:27	243	2.5	51.0	8.86	0	0	0	
2004-May-13	2:28	925	1.5	52.2	8.86	0	0	0	
2004-May-13	2:28								Bump Top Plug
2004-May-13	2:28	1131	0.0	52.2	8.96	0	0	0	
2004-May-13	2:28	1131	0.0	52.2	8.98	0	0	0	
2004-May-13	2:29	1131	0.0	52.2	8.99	0	0	0	
2004-May-13	2:29	1117	0.0	52.2	8.99	0	0	0	
2004-May-13	2:30	0	0.0	52.2	8.99	0	0	0	
2004-May-13	2:30	5	0.0	52.2	8.99	0	0	0	
2004-May-13	2:31	5	0.0	52.2	8.99	0	0	0	
2004-May-13	2:31	9	0.0	52.2	8.96	0	0	0	
2004-May-13	2:32	5	0.0	52.2	8.96	0	0	0	
2004-May-13	2:32	-3571	0.0	52.2	-6.25	0	0	0	
2004-May-13	2:33	-3571	0.0	52.2	-6.25	0	0	0	
2004-May-13	2:33	-3571	0.0	52.2	-6.25	0	0	0	
2004-May-13	2:34	-3571	0.0	52.2	-6.25	0	0	0	
2004-May-13	2:34	-3571	0.0	52.2	-6.25	0	0	0	
2004-May-13	2:34								Reset Total, Vol = 52.23 bbl
2004-May-13	2:34	-3571	0.0	0.0	-6.25	0	0	0	

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Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
4	0	0	6.5

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
195	0	10	

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
			1100	

Breakdown Fluid

Volume	Density
bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	145 bbl	50 bbl	°F	☑	30 bbl
				☐ Washed Thru Perfs	To ft

Customer or Authorized Representative	Schlumberger Supervisor		
Fillpot, Greg	Ahrends, Timothy	☐ CirculationLost	☑ Job Completed