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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

Form ACO-1

September 1999

Form Must Be Typed

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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: Enron
 Operator Contact Person: Vicki Carder
 Phone: (620) 629-4200
 Contractor: Name: Murfin Drilling Co., Inc.
 License: 30606
 Wellsite Geologist: Tom Heflin
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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: _____

API No. 15 - 175-21896-0000
 County: Seward
 _____ - _____ - N/2 - NE Sec 17 Twp. 32 S. R. 34W
651 feet from S (N) (circle one) Line of Section
1342 feet from (E) W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) (NE) SE NW SW
 Lease Name: Jerman A Well #: 4
 Field Name: Un-named
 Producing Formation: Morrow
 Elevation: Ground: 2940 Kelly Bushing: 2951
 Total Depth: 6330 Plug Back Total Depth: 5775
 Amount of Surface Pipe Set and Cemented at 1753 ✓ feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set 3221
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.

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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. _____
05/02/03 05/14/03 05/29/03
 Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan All in 9.10.03
 (Data must be collected from the Reserve Pit)
 Chloride content 1300 ppm Fluid volume 1700 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 August 19, 2003
 Subscribed and sworn to before me this 19th day of Aug.
20 03
 Notary Public: Anita Peterson
 Date Commission Expires: Oct 1, 2005

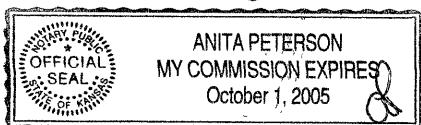
KCC Office Use Only

Letter of Confidentiality Attached
 If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution



Operator Name: OXY USA Inc. Lease Name: Jerman A Well #: 4
 Sec. 17 Twp. 32 S. R. 34W 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 checked="" type="checkbox"/> Yes <input 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	4198 1247
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	4225 1274
List All E. Logs Run:	Induction Neutron	Lansing	4334 1383
Sonic Microlog Geological Report		Marmaton	4996 2045
		Atoka	5349 2398
		Morrow	5584 2633
		Chester	5835 2884
		St. Genevieve	6225 3274

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	1753	C	725	35/65 + Additives (See Attached Cmt Tkt)
Production	7 7/8	4 1/2	10.5	5855	C	225	50/50 POZ + Additives (See Attached Cmt Tkt)

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	2500-3221	C	300	50/50 POZ H + Additives (See Attached Cmt Tkt)
<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
6	5598-5624	3000 Gals 7 1/2% MCA Acid	

TUBING RECORD	Size 2 3/8	Set At 5521	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. 07/03/03	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil BBLs 3.5	Gas Mcf 625	Water Bbls 0	Gas-Oil Ratio	Gravity

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) _____



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CEMENT JOB REPORT

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PAGE ___ of ___

CUSTOMER	DATE	FR#	SERV. SUPV.
LEASE & WELL NAME-OCSG	LOCATION	COUNTY-PARISH-BLOCK	
DISTRICT	DRILLING CONTRACTOR-BIG#	TYPE OF JOB	

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	PHYSICAL SLURRY PROPERTIES					
TOP		SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
BTM	N/A						

MATERIALS FURNISHED BY BJ							
300 cu 50/50 P ₂ H + 2% G _o l + 3% KCl + .5% FL-52		12.8	146	6.37		78	46
+ 5% LCM-1 + 5% A-10							
Displace + Reverse w/ Fresh water						25	25

Available Mix Water	120 Bbl.	Available Displ. Fluid	120 Bbl.	TOTAL	103	71
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HOLE			TBG-CSG-D.P.				TBG-CSG-D.P.				COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
-	-	-	2 3/8"	4.7	J-55	3221'	-	-	-	-	-	-	-

LAST CASING				PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT.	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
4 1/2"	16.5*	J-55		F.O. Tool		3221'	3221'	-	2 3/8"	8" EUE	water	8.33

CAL. DISPL. VOL.-Bbl.				CAL. PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV.	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
12.4	-	-	12.4	-	-	2000	-	2000	-	2000	water	8.33	X 200T	

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING.

PRESSURE / RATE DETAIL

TIME HR:MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION	
	PIPE	ANNULUS				SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	TEST LINES
08:29	3000				water		3000 PSI
08:34	2000				water		3000 PSI
08:47	550		3		water		3000 PSI
08:49	600		3	5	50/50		3000 PSI
09:15	800		3	78	water		3000 PSI
09:19	850		3	12	water		3000 PSI
09:23	2000				water		3000 PSI
09:31		750	3		water		3000 PSI
09:40		450	3	25	water		3000 PSI

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BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP	Bbl. CMT RETURNS/ REVERSED	TOTAL Bbl. PUMPED	PSI LEFT ON CSG	SPOT TOP CEMENT	SERV. SUPV.
Y/N	/	Y/N	2	120	0		[Signature]

1500

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CONFIDENTIAL Service Order

2003-May-02

Customer OXY USA, INC.		Person Taking Call Lingo, Monty		Dowell Location Perryton, TX		OrderDate 2003-May-02		Job Number 2205542683			
Well Name and Number JERMAN B 1			Legal Location		Field		County SEWARD		State/Province KANSAS		
Well Master: 0630497656			API / UW: 15175218960000								
Rig Name			Well Age New		Sales Engineer Parra Bandala-Dolores, Maria			Job Type Cem Surface Casing			
Time Well Ready:		Deviation		Bit Size 12.3 in		Well MD 1,500 ft		Well TVD 1,500 ft		BHP 1000 psi	
								BHST 90 °F		BHCT 85 °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	
Casing						Services Instructions:					
Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
1500		8.63		36		C75		8RD			
Tubing						CEMENT 8 5/8 IN SURFACE CASING WITH:					
Depth,		Size, in		Weight, lb/ft		Grade		Thread			
Perforated Intervals						LEAD: 575 SACKS 35:65 POZ+6%D20+2%S1+0.25 PPS					
Top, ft		Bottom, ft		spf		No. of Shots		Total Interval			
								ft			
								Diameter			
								in			
Expected On Location:						Ready To Pump:					

Services Instructions:
 CEMENT 8 5/8 IN SURFACE CASING WITH:
 LEAD: 575 SACKS 35:65 POZ+6%D20+2%S1+0.25 PPS
 D29+0.2%D46
 TAIL: 150 SACKS CLASS C +2%S1

Extra Equipment:
 2 ABTS
 1 CEMCAT
 1 PUMP

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Notes: 1 TOP PLUG

Directions:
 NORTH OF LIBERAL === ON HWY 83 TO HWY 51 === 7 MILES WEST TO MARTENEY ROAD
 === 7 MILES NORTH TO MOSCOW BLACK TOP === 3/4 MILES EAST === SOUTH INTO
 LOCATION ===

Other Notes:
 BE SAFE!! FOLLOW CONVOY POLICY!!!

Comments:

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Fluid Systems:

LEAD			
575 SKS 35:65 POZ C+ 6%D20 + 2%S1 + 0.25 PPS D29+0.2%D46			
Density:	12.2	lb/gal	Thickening Time:
Yield:	2.18	ft ³ /sk	
H2O Mix:	12.31	gal/sk	
H2O:	7078.25	gal	Eq. Sack Weight: 88.75 lb
			Total Blend: 575 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D046	0.188 lbs/sk	108.1	
D029	0.25 lbs/sk	143.75	
S001	1.775 lbs/sk	1020.625	
D020	5.325 lbs/sk	3061.875	
POZ	27.65 lbs/sk	15898.75	
CLASS C	61.1 lbs/sk	35132.5	

TAIL			
150 SKS CLASS C+2%S1			
Density:	14.8	lb/gal	Thickening Time:
Yield:	1.32	ft ³ /sk	
H2O Mix:	6.3	gal/sk	
H2O:	945	gal	Eq. Sack Weight: 94 lb
			Total Blend: 150 sacks
Dowell Code	Conc/ Amount	Total Quantity	
S001	1.88 lbs/sk	282	
CLASS C	94 lbs/sk	14100	

Customer OXY USA, INC.						Job Number 2205542683			
Well JERMAN B 1			Location (legal) KCC		Schlumberger Location Perryton, TX		Job Start 2003-May-03		
Field		Formation Name/Type AUG 19 2003		Bit Size 12.3 in	Well MD 1,768 ft	Well TVD 1,768 ft			
County SEWARD		State/Province KANSAS		BHP 1000 psi	BHST 90 °F	BHCT 85 °F	Pore Press. Gradient psi/ft		
Well Master: 0630497656		API / UWI: 15175218960000		Casing/Liner					
Rig Name	Drilled For Oil	Service Via Land		Depth, ft 1768	Size, in 8.63	Weight, lb/ft 24	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development		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 Surface Casing		Perforations/Open Hole					
Max. Allowed Tubing Pressure 490 psi	Max. Allowed Ann. Pressure psi	WellHead Connection 8 5/8 HS&M		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions CEMENT 8 5/8 IN SURFACE CASING WITH: LEAD: 575 SACKS 35:65 POZ+6%D20+2%S1+0.25 PPS D29+0.2%D46 TAIL: 150 SACKS CLASS C +2%S1				Diameter in	Treat Down Casing	Displacement 109 bbl	Packer Type None	Packer Depth 0 ft	
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Casing Tools		Squeeze Job					
Lift Pressure: 480 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:	Squeeze Type		
No. Centralizers:	Top Plugs: 1	Bottom Plugs:		Shoe Depth: 1768 ft	Tool Type:				
Cement Head Type:		Stage Tool Type	Stage Tool Depth: ft	Tool Depth: ft	Tail Pipe Size: in				
Job Scheduled For:		Arrived on Location: 2003-May-03 23:00	Leave Location: 2003-May-04 2:00		Collar Type:	Tail Pipe Depth: ft	Collar Depth: 1710 ft		Sqz Total Vol: bbl
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message
2003-May-03	23:16	0	0.0	8.43	0.0	0	0	0	
2003-May-03	23:21	0	0.0	8.41	0.0	0	0	0	
2003-May-03	23:23	5	0.0	8.01	0.0	0	0	0	
2003-May-03	23:23								Reset Total, Vol = 0.00 bbl
2003-May-03	23:26	0	0.0	8.38	0.0	0	0	0	
2003-May-03	23:31	5	0.0	8.36	9.5	0	0	0	
2003-May-03	23:31								Reset Total, Vol = 9.47 bbl
2003-May-03	23:31	9	0.0	8.37	9.5	0	0	0	
2003-May-03	23:31								Reset Total, Vol = 0.00 bbl
2003-May-03	23:31	9	0.0	9.17	9.5	0	0	0	
2003-May-03	23:31	9	0.0	9.66	0.0	0	0	0	
2003-May-03	23:31								Start Cement Slurry
2003-May-03	23:36	124	5.6	12.46	21.4	0	0	0	
2003-May-03	23:41	119	5.5	12.89	49.2	0	0	0	
2003-May-03	23:46	105	5.0	12.74	75.0	0	0	0	
2003-May-03	23:51	101	5.0	12.72	100.0	0	0	0	
2003-May-03	23:56	101	5.1	12.30	125.2	0	0	0	
2003-May-04	0:01	101	5.0	12.58	150.4	0	0	0	
2003-May-04	0:06	110	5.1	12.68	175.7	0	0	0	
2003-May-04	0:11	128	5.4	12.82	200.3	0	0	0	
2003-May-04	0:16	69	3.5	12.82	224.3	0	0	0	
2003-May-04	0:21	142	4.8	14.85	246.5	0	0	0	

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Well JERMAN B #1		Field		Service Date 03123-May-03		Customer OXY USA, INC.			Job Number 2205542683		
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message		
2003-May-04	0:26	69	3.0	15.31	265.5	0	0	0	AUG 13 2005		
2003-May-04	0:30	-5	0.0	10.08	270.1	0	0	0	CONFIDENTIAL		
2003-May-04	0:30								Reset Total, Vol = 270.15 bbl		
2003-May-04	0:30	-9	0.0	10.09	270.1	0	0	0			
2003-May-04	0:30								Reset Total, Vol = 0.00 bbl		
2003-May-04	0:30								Remark		
2003-May-04	0:30	32	0.0	10.03	0.0	0	0	0			
2003-May-04	0:31	82	5.5	9.26	1.5	0	0	0			
2003-May-04	0:36	37	4.1	8.37	23.1	0	0	0			
2003-May-04	0:41	137	5.2	8.38	47.7	0	0	0			
2003-May-04	0:46	302	5.0	8.38	72.8	0	0	0			
2003-May-04	0:51	467	4.7	8.38	96.7	0	0	0			
2003-May-04	0:55								Reset Total, Vol = 107.18 bbl		
2003-May-04	0:55	893	0.0	8.38	107.2	0	0	0			
2003-May-04	0:56	893	0.0	8.52	0.0	0	0	0			
2003-May-04	0:56								Remark		
2003-May-04	0:56	0	0.0	8.52	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				6	260		10				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density				
450		110	900		bbl		lb/gal				
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume		100 bbl				
%	258 bbl		109 bbl	°F	<input type="checkbox"/> Washed Thru Perfs To		ft				
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed			
REP, COMPANY			michael, king								

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Service Order

2003-May-14

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Customer OXY USA, INC.		Person Taking Call Lingo, Monty		Dowell Location Perryton, TX		OrderDate 2003-May-14		Job Number 2205542736					
Well Name and Number JERMAN B 1			Legal Location		Field		County SEWARD		State/Province KANSAS				
Well Master: 0630497656			API / UWI: 15175218960000										
Rig Name			Well Age New		Sales Engineer Parra Bandala-Dolores, Maria			Job Type Cem Prod Casing					
Time Well Ready:		Deviation °		Bit Size 7 in		Well MD 5,870 ft		Well TVD 5,870 ft		BHP 2000 psi			
								BHST 134 °F		BHCT 118 °F			
Treat Down Casing		Packer Type None		Packer Depth 0 ft		WellHead Connection 4 1/2 HS&M		HHP on Location		Max Allowed Pressure 2000			
Casing					Services Instructions:								
Depth, ft					CEMENT 4 1/2 IN PRODUCTION WITH:								
Size, in					SPACER: 20 BBLs CW100								
Weight, lb/ft					TAIL: 225 SACKS 50:50 POZ+ADDS								
Grade					MOUSE AND RAT HOLE: 25 SACKS 50:50 POZ+ADDS								
Thread													
5870										8RD			
Tubing					Extra Equipment:								
Depth,					1 ABT								
Size, in					1 PUMP								
Weight, lb/ft					1 CEMCAT								
Grade													
Thread													
Perforated Intervals													
Top, ft		Bottom, ft		spf		No. of Shots		Total Interval					
								ft					
								Diameter					
								in					
Expected On Location:						Ready To Pump:							

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Notes:
1 TOP PLUG AND BOTTOM PLUG

Directions:
NORTH OF LIBERAL === ON HWY 83 TO HWY 51 === 7 MILES WEST TO MARTENEY ROAD === 7 MILES NORTH TO MOSCOW BLACK TOP === 3/4 MILES EAST === SOUTH INTO LOCATION ===

Other Notes:
FOLLOW CONVOY POLICIES!!

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Comments:

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Fluid Systems:

MOUSE&RAT			
25 SACKS 50:50 POZ MIX			
<i>Density:</i>	13.8 lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	1.55 ft ³ /sk		
<i>H2O Mix:</i>	7.1 gal/sk		
<i>H2O:</i>	177.5 gal	<i>Eq. Sack Weight:</i>	86.5 lb
		<i>Total Blend:</i>	25 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D046	0.173 lbs/sk	4.325	
M117	2.595 lbs/sk	64.875	
D065	0.216 lbs/sk	5.4	
POZ	39.5 lbs/sk	987.5	
D053	5 lbs/sk	125	
D042	5 lbs/sk	125	
CLASS H	47 lbs/sk	1175	
D059	0.216 lbs/sk	5.4	
D020	1.73 lbs/sk	43.25	

TAIL			
225 SACKS 50:50 POZ H+2%D20+5 PPS D42+5 PPS D53+0.25%D059+0.25%D65+3%KCL+0.2%D46			
<i>Density:</i>	13.8 lb/gal	<i>Thickening Time:</i>	3 HRS
<i>Yield:</i>	1.55 ft ³ /sk		
<i>H2O Mix:</i>	7.1 gal/sk		
<i>H2O:</i>	1597.5 gal	<i>Eq. Sack Weight:</i>	86.5 lb
		<i>Total Blend:</i>	225 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D046	0.173 lbs/sk	38.925	
M117	2.595 lbs/sk	583.875	
D065	0.216 lbs/sk	48.6	
D059	0.216 lbs/sk	48.6	
D053	5 lbs/sk	1125	
D042	5 lbs/sk	1125	
POZ	39.5 lbs/sk	8887.5	
D020	1.73 lbs/sk	389.25	
CLASS H	47 lbs/sk	10575	

SPACER			
20 BBLs CW100			
<i>Density:</i>	lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	ft ³ /sk		
<i>H2O Mix:</i>	0 gal/sk		
<i>H2O:</i>	0 gal	<i>Eq. Sack Weight:</i>	0 lb
		<i>Total Blend:</i>	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
J237A	6 gal	6	
D122A	10 gal	10	

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Cementing Service Report

Customer OXY USA, INC.	KCC AUG 19 2003	Job Number 2205542736
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Well JERMAN B 1		Location (legal) Perryton, TX		Schlumberger Location Perryton, TX		Job Start 2003-May-15	
Field		Formation Name/Type CONFIDENTIAL		Bit Size 7.88 in	Well MD 5,857 ft	Well TVD 5,857 ft	
County SEWARD		State/Province KANSAS		BHP 2000 psi	BHST 134 °F	BHCT 118 °F	Pore Press. Gradient psi/ft
Well Master: 0630497656		API / UWI: 15175218960000		Casing/Liner			
Rig Name	Drilled For Oil	Service Via Land		Depth, ft 5857	Size, in 4.5	Weight, lb/ft 10.5	Grade
Offshore Zone	Well Class New	Well Type Development		Tubing/Drill Pipe			
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cp	Depth,	Size, in	Weight, lb/ft	Grade
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
Service Instructions CEMENT 4 1/2 IN PRODUCTION WITH: SPACER: 20 BBLs CW100 TAIL: 225 SACKS 50:50 POZ+ADDS MOUSE AND RAT HOLE: 25 SACKS 50:50 POZ+ADDS				Total Interval ft		Diameter in	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: 630 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Guide	
No. Centralizers: 		Top Plugs: 1		Bottom Plugs: 1		Shoe Depth: 5857 ft	
Cement Head Type: Single		Job Scheduled For: 2003-May-15 1:00		Arrived on Location: 2003-May-15 1:00		Leave Location: 2003-May-15 5:30	
Stage Tool Type: 		Stage Tool Depth: ft		Collar Type: insert		Collar Depth: 5770.79 ft	
Tool Depth: ft		Tail Pipe Size: in		Tail Pipe Depth: ft		Sqz Total Vol: bbl	

Date	Time	Treating Pressure	Flow Rate	CMT DENS					Message
	24 hr clock	psi	bbl/min	lb/gal					
2003-May-15	3:08	0	0.0	8.37	0	0	0	0	
2003-May-15	3:08	0	0.0	8.37	0	0	0	0	
2003-May-15	3:08								Start Job
2003-May-15	3:08	0	0.0	8.37	0	0	0	0	
2003-May-15	3:09	0	0.0	8.34	0	0	0	0	
2003-May-15	3:09	0	0.0	8.25	0	0	0	0	
2003-May-15	3:10	5	0.0	7.69	0	0	0	0	
2003-May-15	3:10	5	0.0	9.47	0	0	0	0	
2003-May-15	3:11	5	0.0	11.63	0	0	0	0	
2003-May-15	3:11	5	0.0	13.43	0	0	0	0	
2003-May-15	3:12	5	0.0	13.72	0	0	0	0	
2003-May-15	3:12	5	0.0	14.07	0	0	0	0	
2003-May-15	3:13	41	0.6	14.13	0	0	0	0	
2003-May-15	3:13	92	0.6	14.15	0	0	0	0	
2003-May-15	3:14	64	0.6	14.15	0	0	0	0	
2003-May-15	3:14	18	0.6	14.12	0	0	0	0	
2003-May-15	3:15	32	0.6	8.47	0	0	0	0	
2003-May-15	3:15	5	0.0	8.33	0	0	0	0	
2003-May-15	3:16	5	0.0	0.07	0	0	0	0	
2003-May-15	3:16	5	0.0	4.06	0	0	0	0	
2003-May-15	3:17	5	0.0	9.06	0	0	0	0	
2003-May-15	3:17	5	0.0	9.53	0	0	0	0	

RELEASED FROM CONFIDENTIAL

Well		Field			Service Date		Customer		Job Number
JERMAN B #1					03135-May-15		OXY USA, INC.		2205642736
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbf/min	lb/gal	0	0	0	0	KCC
2003-May-15	3:18	5	0.0	12.23	0	0	0	0	AUG 19 2003
2003-May-15	3:18	5	0.0	14.19	0	0	0	0	
2003-May-15	3:19	37	0.6	14.23	0	0	0	0	CONFIDENTIAL
2003-May-15	3:19	37	0.6	14.14	0	0	0	0	
2003-May-15	3:20	37	0.6	14.09	0	0	0	0	
2003-May-15	3:20	23	0.6	12.01	0	0	0	0	
2003-May-15	3:21	18	0.6	8.40	0	0	0	0	
2003-May-15	3:21	0	0.0	7.23	0	0	0	0	RELEASED
2003-May-15	3:22	0	0.0	8.05	0	0	0	0	FROM
2003-May-15	3:22	5	0.0	8.35	0	0	0	0	CONFIDENTIAL
2003-May-15	3:23	5	0.0	8.35	0	0	0	0	
2003-May-15	3:23	5	0.0	8.35	0	0	0	0	
2003-May-15	3:24	5	0.0	8.35	0	0	0	0	
2003-May-15	3:24	0	0.0	8.35	0	0	0	0	
2003-May-15	3:25	0	0.0	8.35	0	0	0	0	
2003-May-15	3:25	0	0.0	8.35	0	0	0	0	
2003-May-15	3:26	5	0.0	8.35	0	0	0	0	
2003-May-15	3:26	5	2.2	8.35	0	0	0	0	
2003-May-15	3:27	9	2.2	8.32	0	0	0	0	
2003-May-15	3:27	9	1.5	8.36	0	0	0	0	
2003-May-15	3:28	9	1.5	8.36	0	0	0	0	
2003-May-15	3:28	0	0.0	7.72	0	0	0	0	
2003-May-15	3:29	0	0.0	7.88	0	0	0	0	
2003-May-15	3:29	0	0.0	8.25	0	0	0	0	
2003-May-15	3:30	5	1.0	7.71	0	0	0	0	
2003-May-15	3:30	5	1.4	8.36	0	0	0	0	
2003-May-15	3:31	23	1.4	8.37	0	0	0	0	
2003-May-15	3:31	64	1.4	8.37	0	0	0	0	
2003-May-15	3:32	18	3.1	8.37	0	0	0	0	
2003-May-15	3:32	78	1.4	8.37	0	0	0	0	
2003-May-15	3:33	60	1.0	8.37	0	0	0	0	
2003-May-15	3:33	151	1.4	8.74	0	0	0	0	
2003-May-15	3:34	32	0.0	8.74	0	0	0	0	
2003-May-15	3:34	0	0.0	8.73	0	0	0	0	
2003-May-15	3:35	0	0.0	8.72	0	0	0	0	
2003-May-15	3:35	0	0.0	8.73	0	0	0	0	
2003-May-15	3:36	9	0.0	8.73	0	0	0	0	
2003-May-15	3:36	0	0.0	8.69	0	0	0	0	
2003-May-15	3:37	0	0.0	8.67	0	0	0	0	
2003-May-15	3:37	0	0.0	8.66	0	0	0	0	
2003-May-15	3:38	0	0.0	8.65	0	0	0	0	
2003-May-15	3:38	78	1.5	8.62	0	0	0	0	
2003-May-15	3:39	78	3.2	8.62	0	0	0	0	
2003-May-15	3:39	78	3.7	8.62	0	0	0	0	
2003-May-15	3:40	78	3.0	8.62	0	0	0	0	
2003-May-15	3:40	14	2.0	8.66	0	0	0	0	
2003-May-15	3:41	5566	0.0	8.67	0	0	0	0	
2003-May-15	3:41	5443	0.0	8.67	0	0	0	0	
2003-May-15	3:42	5	0.0	8.67	0	0	0	0	
2003-May-15	3:42	-5	0.0	8.65	0	0	0	0	
2003-May-15	3:43	50	3.2	8.65	0	0	0	0	
2003-May-15	3:43	215	3.9	8.65	0	0	0	0	
2003-May-15	3:43								Reset Total, Vol = 21.21 bbl
2003-May-15	3:43								Start Pumping Wash

Well		Field			Service Date		Customer		Job Number	
JERMAN B #1					03135-May-15		OXY USA, INC.		2205542736	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	KCC	
2003-May-15	3:43	261	3.9	8.65	0	0	0	0	AUG 19 2003	
2003-May-15	3:43	5	0.0	8.65	0	0	0	0		
2003-May-15	3:44	0	0.0	8.43	0	0	0	0	CONFIDENTIAL	
2003-May-15	3:44	0	0.0	8.04	0	0	0	0		
2003-May-15	3:45	343	3.9	8.60	0	0	0	0		
2003-May-15	3:45	174	3.9	8.60	0	0	0	0		
2003-May-15	3:46	142	3.9	8.60	0	0	0	0		
2003-May-15	3:46	146	3.9	8.61	0	0	0	0		
2003-May-15	3:47	169	3.9	8.61	0	0	0	0	RELEASED	
2003-May-15	3:47	137	3.9	8.61	0	0	0	0	FROM	
2003-May-15	3:48	179	3.9	8.61	0	0	0	0	CONFIDENTIAL	
2003-May-15	3:48	156	3.9	8.61	0	0	0	0		
2003-May-15	3:49	183	3.9	8.61	0	0	0	0		
2003-May-15	3:49	174	3.9	8.61	0	0	0	0		
2003-May-15	3:50	5	0.0	8.60	0	0	0	0		
2003-May-15	3:50	5	0.0	8.54	0	0	0	0		
2003-May-15	3:51	0	0.0	8.56	0	0	0	0		
2003-May-15	3:51	0	0.0	8.56	0	0	0	0	Drop Bottom Plug	
2003-May-15	3:52	375	4.7	8.93	0	0	0	0		
2003-May-15	3:52								End Wash	
2003-May-15	3:52	394	5.5	8.92	0	0	0	0		
2003-May-15	3:52	458	5.7	8.98	0	0	0	0		
2003-May-15	3:52								Reset Total, Vol = 20.63 bbl	
2003-May-15	3:52	101	5.7	9.34	0	0	0	0		
2003-May-15	3:52								Start Cement Slurry	
2003-May-15	3:52	256	5.7	12.69	0	0	0	0		
2003-May-15	3:53	362	5.7	13.84	0	0	0	0		
2003-May-15	3:53	293	5.8	13.86	0	0	0	0		
2003-May-15	3:54	233	5.7	13.91	0	0	0	0		
2003-May-15	3:54	270	5.7	13.88	0	0	0	0		
2003-May-15	3:55	252	5.7	13.91	0	0	0	0		
2003-May-15	3:55	188	5.7	13.96	0	0	0	0		
2003-May-15	3:56	197	5.7	13.95	0	0	0	0		
2003-May-15	3:56	165	5.7	13.94	0	0	0	0		
2003-May-15	3:57	256	5.7	13.72	0	0	0	0		
2003-May-15	3:57	243	5.7	13.79	0	0	0	0		
2003-May-15	3:58	284	5.7	13.87	0	0	0	0		
2003-May-15	3:58	252	5.7	13.83	0	0	0	0		
2003-May-15	3:59	224	5.7	13.80	0	0	0	0		
2003-May-15	3:59	220	5.7	13.78	0	0	0	0		
2003-May-15	4:00	233	5.7	13.80	0	0	0	0		
2003-May-15	4:00	197	5.7	13.81	0	0	0	0		
2003-May-15	4:01	211	5.7	13.73	0	0	0	0		
2003-May-15	4:01	252	5.7	13.72	0	0	0	0		
2003-May-15	4:02	247	5.7	13.75	0	0	0	0		
2003-May-15	4:02	233	5.7	13.79	0	0	0	0		
2003-May-15	4:03	224	5.7	13.77	0	0	0	0		
2003-May-15	4:03	201	5.7	13.86	0	0	0	0		
2003-May-15	4:04	215	5.7	13.78	0	0	0	0		
2003-May-15	4:04								End Cement Slurry	
2003-May-15	4:04	5	0.0	2.80	0	0	0	0		
2003-May-15	4:04	5	0.0	1.36	0	0	0	0		
2003-May-15	4:04								Reset Total, Vol = 69.16 bbl	
2003-May-15	4:04	0	0.0	0.56	0	0	0	0		

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Well		Field			Service Date		Customer		Job Number
JERMAN B #1					03135-May-15		OXY USA, INC.		2205542736
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	
2003-May-15	4:05	0	0.0	0.42	0	0	0	0	
2003-May-15	4:05								Drop Top Plug
2003-May-15	4:05	0	0.0	0.42	0	0	0	0	
2003-May-15	4:05								Start Displacement
2003-May-15	4:05	0	0.0	0.41	0	0	0	0	
2003-May-15	4:05	0	0.0	0.40	0	0	0	0	
2003-May-15	4:06	0	0.0	0.38	0	0	0	0	
2003-May-15	4:06	9	0.0	0.39	0	0	0	0	
2003-May-15	4:07	32	0.0	8.48	0	0	0	0	
2003-May-15	4:07	32	0.0	8.57	0	0	0	0	
2003-May-15	4:08	114	0.0	8.27	0	0	0	0	
2003-May-15	4:08	188	0.0	8.34	0	0	0	0	
2003-May-15	4:09	220	0.0	8.47	0	0	0	0	
2003-May-15	4:09	133	0.0	8.38	0	0	0	0	
2003-May-15	4:10	5	0.0	3.71	0	0	0	0	
2003-May-15	4:10	0	0.0	0.18	0	0	0	0	
2003-May-15	4:11	0	0.0	0.11	0	0	0	0	
2003-May-15	4:11	0	0.0	0.11	0	0	0	0	
2003-May-15	4:12	0	0.0	0.10	0	0	0	0	
2003-May-15	4:12	0	0.0	0.09	0	0	0	0	
2003-May-15	4:13	0	0.0	0.09	0	0	0	0	
2003-May-15	4:13	0	0.0	0.09	0	0	0	0	
2003-May-15	4:14	82	0.0	7.95	0	0	0	0	
2003-May-15	4:14	101	0.0	8.36	0	0	0	0	
2003-May-15	4:15	101	0.0	8.36	0	0	0	0	
2003-May-15	4:15	101	5.7	8.36	0	0	0	0	
2003-May-15	4:16	96	5.7	8.35	0	0	0	0	
2003-May-15	4:16	101	5.7	8.35	0	0	0	0	
2003-May-15	4:17	110	5.7	8.35	0	0	0	0	
2003-May-15	4:17	114	5.7	8.35	0	0	0	0	
2003-May-15	4:18	101	5.7	8.36	0	0	0	0	
2003-May-15	4:18	96	5.7	8.36	0	0	0	0	
2003-May-15	4:19	96	5.7	8.36	0	0	0	0	
2003-May-15	4:19	101	5.7	8.36	0	0	0	0	
2003-May-15	4:20	101	5.7	8.36	0	0	0	0	
2003-May-15	4:20	101	5.7	8.36	0	0	0	0	
2003-May-15	4:21	110	5.8	8.36	0	0	0	0	
2003-May-15	4:21	96	5.4	8.36	0	0	0	0	
2003-May-15	4:22	92	5.4	8.36	0	0	0	0	
2003-May-15	4:22	96	5.5	8.36	0	0	0	0	
2003-May-15	4:23	92	5.4	8.36	0	0	0	0	
2003-May-15	4:23	96	5.4	8.36	0	0	0	0	
2003-May-15	4:24	92	5.4	8.36	0	0	0	0	
2003-May-15	4:24	101	5.4	8.36	0	0	0	0	
2003-May-15	4:25	224	5.4	8.36	0	0	0	0	
2003-May-15	4:25	293	5.5	8.36	0	0	0	0	
2003-May-15	4:26	348	5.4	8.36	0	0	0	0	
2003-May-15	4:26	375	5.4	8.36	0	0	0	0	
2003-May-15	4:27	453	5.4	8.36	0	0	0	0	
2003-May-15	4:27	485	5.4	8.36	0	0	0	0	
2003-May-15	4:28	398	3.9	8.36	0	0	0	0	
2003-May-15	4:28	462	3.9	8.36	0	0	0	0	
2003-May-15	4:29	499	3.9	8.36	0	0	0	0	
2003-May-15	4:29	462	2.7	8.36	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
JERMAN B #1					03135-May-15		OXY USA, INC.		2205542736
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	0	0	0	0	KCC
2003-May-15	4:30	490	2.7	8.36	0	0	0	0	AUG 19 2003
2003-May-15	4:30	517	2.7	8.36	0	0	0	0	CONFIDENTIAL
2003-May-15	4:31	549	2.7	8.36	0	0	0	0	
2003-May-15	4:31	577	2.7	8.36	0	0	0	0	
2003-May-15	4:32	604	2.7	8.36	0	0	0	0	
2003-May-15	4:32	655	2.7	8.36	0	0	0	0	
2003-May-15	4:33	664	2.7	8.36	0	0	0	0	
2003-May-15	4:33	1534	0.0	8.36	0	0	0	0	
2003-May-15	4:34								Bump Top Plug
2003-May-15	4:34	1534	0.0	8.36	0	0	0	0	
2003-May-15	4:34								End Displacement
2003-May-15	4:34	1538	0.0	8.36	0	0	0	0	
2003-May-15	4:34								Reset Total, Vol = 93.76 bbl
2003-May-15	4:34	1534	0.0	8.36	0	0	0	0	
2003-May-15	4:34	1534	0.0	8.36	0	0	0	0	
2003-May-15	4:35	957	0.0	8.36	0	0	0	0	
2003-May-15	4:35	9	0.0	8.36	0	0	0	0	
2003-May-15	4:36	5	0.0	8.36	0	0	0	0	
2003-May-15	4:36	9	0.0	8.36	0	0	0	0	
2003-May-15	4:36	14	0.0	8.36	0	0	0	0	
2003-May-15	4:36								End Job

Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5		0	6	64	0	20	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density	
			1550				
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			
0 %	62 bbl	91.8 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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