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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

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

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
[X] Commingled Docket No. Pending
[ ] Dual Completion Docket No.
[ ] Other (SWD or Enhr.?) Docket No.
01/30/06 02/09/06 03/22/06
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 189-22503 -00-00
County: Stevens
SW - NE - SE - NW Sec 23 Twp. 34 S. R. 35W
1836 feet from S (N circle one) Line of Section
2128 feet from E (W circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Elerding B Well #: 2
Field Name: Ski Block
Producing Formation: Chester/Morrow
Elevation: Ground: 2975 Kelly Bushing: 2986
Total Depth: 6400 Plug Back Total Depth: 6354
Amount of Surface Pipe Set and Cemented at 1718 feet
Multiple Stage Cementing Collar Used? [ ] Yes [X] No
If yes, show depth set
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

Drilling Fluid Management Plan With 6-26-07
(Data must be collected from the Reserve Pit)
Chloride content 1100 mg/l ppm Fluid volume 1550 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp, S. R. [ ] East [X] 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 05/25/06
Subscribed and sworn to before me this 25 day of May
20 06
Notary Public: Anita Peterson
Date Commission Expires: Oct 1, 2009

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[X] Letter of Confidentiality Attached
If Denied, Yes [ ] Date:
[ ] Wireline Log Received
[ ] Geologist Report Received
[ ] UIC Distribution
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ANITA PETERSON
Notary Public - State of Kansas
My Appt. Expires October 1, 2009

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Side Two

Operator Name: OXY USA Inc. Lease Name: Elerding B Well #: 2

Sec. 23 Twp. 34 S. R. 35W County: Stevens

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, Samples Sent to Geological Survey, Cores Taken, Electric Log Run, List All E. Logs Run, Log Formation (Top), Depth and Datum, Sample

CASING RECORD Table with columns: Purpose of String, Size Hole Drilled, Size Casing Set, Weight Lbs./ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives

PERFORATION RECORD - Bridge Plugs Set/type, Acid, Fracture, Shot, Cement Squeeze Record

TUBING RECORD Table with columns: Size, Set At, Packer At, Liner Run

Date of First Resumed Production, SWD or Enhr., Producing Method

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

Disposition of Gas, METHOD OF COMPLETION, Production Interval

Side Three

Operator Name: OXY USA Inc. Lease Name: Elerding B Well #: 2

Sec. 23 Twp. 34 S. R. 35W  East  West County: Stevens

<u>Name</u>	<u>Top</u>	<u>Datum</u>
Lansing	4434	-1448
Marmaton	5148	-2162
Cherokee	5449	-2463
Atoka	5685	-2699
Morrow	5846	-2860
Chester	6215	-3229

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Schlumberger

Cementing Service Report

Customer OXY USA, INC.						Job Number 2205549192				
Well ELERDING B 2			Location (legal) Sec 23-T34S-R35W			Schlumberger Location Perryton, TX		Job Start 2006-Jan-31		
Field HUGOTON		Formation Name/Type		Deviation °	Bit Size 12.3 in	Well MD 1,718 ft	Well TVD 1,718 ft			
County STEVENS		State/Province KANSAS		BHP psi	BHST 98 °F	BHCT °F	Pore Press. Gradient psi/ft			
Well Master: 0630763304		API / UWI: 15189225030000		Casing/Liner						
Rig Name MURFIN 20		.Drilled For Gas		Service Via Land		Depth, ft 1718	Size, in 8.63	Weight, lb/ft 24	Grade 8RD	Thread
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	Thread
Service Line Cementing		Job Type Cem Surface Casing		Perforations/Open Hole						
Max. Allowed Tubing Pressure 1500 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 8 5/8" H&SM		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
Service Instructions CEMENT 8 5/8" SURFACE CASING WITH: 10 BBL FRESH WATER 575 SK 35:65 POZ C + 6% D020 + 2% S001 + 0.5 pps D029 195 SK CLASS C + 2% S001 + 0.25 pps D029 DISPLACE WITH FRESH WATER						Treat Down Casing	Displacement 106.5 bbl	Packer Type	Packer Depth ft	Diameter in
						Tubing Vol. bbl	Casing Vol. 109 bbl	Annular Vol. 126 bbl	OpenHole Vol 236 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>						1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job
LIR Pressure: 530 psi						Shoe Type:		Squeeze Type		
Pipe Rotated <input type="checkbox"/>						Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: 1718 ft		Tool Type:
No. Centralizers: Top Plugs: 1						Bottom Plugs: 0		Stage Tool Type:		Tool Depth: ft
Cement Head Type: Single						Stage Tool Depth: ft		Tail Pipe Size: in		
Job Scheduled For: 2006-Jan-31 17:30						Arrived on Location: 2006-Jan-31 17:30		Leave Location: 2006-Jan-31 21:30		Collar Type: ft
						Collar Depth: 1672 ft		Sqz Total Vol: bbl		
Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT VOL bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0	0	Message
2006-Jan-31	19:32	5	0.0	0.0	8.34	0.0	0.0	0	0	
2006-Jan-31	19:32									Start Job
2006-Jan-31	19:32	0	0.0	0.0	8.34	0.0	0.0	0	0	
2006-Jan-31	19:33	5	0.0	0.0	8.34	0.0	0.0	0	0	
2006-Jan-31	19:34	92	0.0	0.0	8.33	0.1	0.5	0	0	
2006-Jan-31	19:34	2119	0.0	0.1	8.34	0.1	0.6	0	0	
2006-Jan-31	19:34									Pressure Test Lines
2006-Jan-31	19:35	1959	0.0	0.1	8.34	0.0	0.6	0	0	
2006-Jan-31	19:35	1859	0.0	0.1	8.34	0.0	0.6	0	0	
2006-Jan-31	19:36	9	0.0	0.1	8.34	0.0	0.6	0	0	
2006-Jan-31	19:36	211	5.0	1.3	8.20	5.0	1.9	0	0	
2006-Jan-31	19:36									Start Pumping Spacer
2006-Jan-31	19:36	192	5.6	2.2	8.18	5.8	2.8	0	0	
2006-Jan-31	19:37	192	5.6	4.0	8.18	5.8	4.7	0	0	
2006-Jan-31	19:37	201	5.8	6.9	8.21	6.0	7.7	0	0	
2006-Jan-31	19:38	197	5.8	9.8	8.23	6.0	10.7	0	0	
2006-Jan-31	19:38	201	5.8	11.5	8.90	6.1	12.5	0	0	
2006-Jan-31	19:38									End Spacer
2006-Jan-31	19:38									Reset Total, Vol = 11.60 bbl
2006-Jan-31	19:38	206	5.8	11.6	8.99	6.1	12.6	0	0	
2006-Jan-31	19:38	211	5.9	1.1	9.90	6.1	1.1	0	0	
2006-Jan-31	19:39	243	5.9	4.0	11.24	6.1	4.2	0	0	

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Well			Field			Service Date		Customer		Job Number
ELERDING B #2			HUGOTON			0631-Jan-31		OXY USA, INC.		2205549192
Date	Time	Treating Pressure	Flow Rate	CMT VOL	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0		
2006-Jan-31	19:39	266	5.9	6.9	11.93	6.4	7.3	0		
2006-Jan-31	19:40	279	6.0	9.9	12.30	6.7	10.4	0		
2006-Jan-31	19:40	275	6.0	12.9	12.46	5.2	13.5	0		
2006-Jan-31	19:41	256	6.1	15.9	12.23	6.3	16.5	0		
2006-Jan-31	19:41	252	6.1	19.0	12.07	6.4	19.7	0		
2006-Jan-31	19:42	233	6.1	22.0	12.18	6.4	22.9	0		
2006-Jan-31	19:42	238	6.1	25.1	12.37	6.4	26.0	0		
2006-Jan-31	19:43	229	6.1	28.1	12.41	6.2	29.3	0		
2006-Jan-31	19:43	220	6.2	31.2	12.43	6.3	32.4	0		
2006-Jan-31	19:44	215	6.2	34.3	12.39	6.4	35.6	0		
2006-Jan-31	19:44	206	6.2	37.4	12.30	6.7	38.9	0		
2006-Jan-31	19:45	188	6.1	40.5	12.26	6.4	42.2	0		
2006-Jan-31	19:45	188	6.2	43.6	12.31	6.0	45.3	0		
2006-Jan-31	19:46	188	6.2	46.7	12.32	6.5	48.6	0		
2006-Jan-31	19:46	188	6.2	49.9	12.31	6.7	51.9	0		
2006-Jan-31	19:47	183	6.2	53.0	12.30	6.5	55.2	0		
2006-Jan-31	19:47	188	6.2	56.1	12.31	6.5	58.5	0		
2006-Jan-31	19:48	188	6.2	59.2	12.30	6.2	61.7	0		
2006-Jan-31	19:48	183	6.2	62.3	12.29	6.6	64.9	0		
2006-Jan-31	19:49	183	6.3	65.4	12.24	6.7	68.2	0		
2006-Jan-31	19:49	183	6.2	68.6	12.01	6.3	71.4	0		
2006-Jan-31	19:50	183	6.2	71.7	12.33	6.5	74.7	0		
2006-Jan-31	19:50	192	6.3	74.8	12.45	6.5	78.0	0		
2006-Jan-31	19:51	192	6.3	77.9	12.41	6.6	81.3	0		
2006-Jan-31	19:51	192	6.2	81.1	12.30	6.6	84.5	0		
2006-Jan-31	19:52	192	6.3	84.2	12.37	6.5	87.8	0		
2006-Jan-31	19:52	192	6.3	87.3	12.36	6.5	91.1	0		
2006-Jan-31	19:53	188	6.3	90.5	12.42	6.5	94.4	0		
2006-Jan-31	19:53	192	6.3	93.6	12.41	6.8	97.7	0		
2006-Jan-31	19:54	192	6.3	96.8	12.31	6.5	101.0	0		
2006-Jan-31	19:54	192	6.3	99.9	12.27	6.6	104.3	0		
2006-Jan-31	19:55	179	6.2	103.1	12.24	6.6	107.5	0		
2006-Jan-31	19:55	192	6.3	106.2	12.26	6.6	110.8	0		
2006-Jan-31	19:56	192	6.3	109.3	12.27	6.5	114.0	0		
2006-Jan-31	19:56	192	6.3	112.5	12.29	6.6	117.3	0		
2006-Jan-31	19:57	183	6.3	115.7	12.30	6.6	120.7	0		
2006-Jan-31	19:57	165	6.3	118.9	12.33	5.8	123.8	0		
2006-Jan-31	19:58	128	6.4	122.1	12.30	5.8	126.7	0		
2006-Jan-31	19:58	146	6.4	125.3	12.33	5.7	129.6	0		
2006-Jan-31	19:59	201	6.9	128.3	12.38	5.4	132.3	0		
2006-Jan-31	19:59	165	5.8	131.3	12.36	6.0	135.3	0		
2006-Jan-31	20:00	133	5.8	134.2	12.33	6.0	138.4	0		
2006-Jan-31	20:00	105	5.8	137.1	12.30	5.1	141.0	0		
2006-Jan-31	20:01	101	5.8	140.0	12.27	5.0	143.5	0		
2006-Jan-31	20:01	128	5.8	142.8	12.24	5.3	146.1	0		
2006-Jan-31	20:02	137	5.8	145.7	12.16	5.2	148.7	0		
2006-Jan-31	20:02	142	5.9	148.6	12.39	5.4	151.3	0		
2006-Jan-31	20:03	133	6.0	151.5	12.50	5.4	153.9	0		
2006-Jan-31	20:03	151	6.0	154.5	12.40	5.5	156.6	0		
2006-Jan-31	20:04	156	6.0	157.5	12.22	5.4	159.4	0		
2006-Jan-31	20:04	110	6.0	160.5	12.07	5.4	162.1	0		
2006-Jan-31	20:05	128	6.0	163.5	12.11	5.4	164.8	0		
2006-Jan-31	20:05	165	6.1	166.5	12.34	5.5	167.5	0		
2006-Jan-31	20:06	156	5.9	169.5	12.51	5.5	170.2	0		

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Well			Field			Service Date		Customer		Job Number
ELERDING B #2			HUGOTON			0631-Jan-31		OXY USA, INC.		2205549192
Date	Time	Treating Pressure	Flow Rate	CMT VOL	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0		
2006-Jan-31	20:06	156	6.8	172.4	12.46	6.4	172.8	0		
2006-Jan-31	20:07	105	5.6	175.2	12.34	5.2	175.6	0		
2006-Jan-31	20:07	151	5.9	178.2	12.25	5.4	178.3	0		
2006-Jan-31	20:08	114	5.9	181.1	12.14	5.4	181.0	0		
2006-Jan-31	20:08	146	5.9	184.1	12.47	5.4	183.7	0		
2006-Jan-31	20:09	146	5.9	187.1	12.43	5.1	186.3	0		
2006-Jan-31	20:09	270	6.2	190.0	12.37	5.3	188.9	0		
2006-Jan-31	20:10	156	6.1	193.0	12.39	5.3	191.5	0		
2006-Jan-31	20:10	128	6.0	196.0	12.38	5.4	194.2	0		
2006-Jan-31	20:11	151	5.9	199.0	12.40	5.3	196.8	0		
2006-Jan-31	20:11	124	6.0	202.0	12.42	5.3	199.5	0		
2006-Jan-31	20:12	174	6.1	205.0	12.43	5.4	202.1	0		
2006-Jan-31	20:12	160	5.9	208.0	12.40	5.3	204.8	0		
2006-Jan-31	20:13	137	5.9	210.9	12.34	5.2	207.4	0		
2006-Jan-31	20:13	160	5.9	213.9	12.27	5.2	210.0	0		
2006-Jan-31	20:14	156	6.1	216.9	12.18	5.2	212.6	0		
2006-Jan-31	20:14	156	6.0	219.9	12.17	5.0	215.1	0		
2006-Jan-31	20:14								End Lead Slurry	
2006-Jan-31	20:14	142	6.0	221.0	12.71	5.0	216.1	0		
2006-Jan-31	20:14	151	5.9	221.3	12.87	5.0	216.3	0		
2006-Jan-31	20:14								Reset Total, Vol = 221.25 bbl	
2006-Jan-31	20:14								Start Mixing Tail Slurry	
2006-Jan-31	20:14	137	6.0	0.1	12.92	5.1	0.1	0		
2006-Jan-31	20:15	169	6.0	1.6	13.59	5.2	1.4	0		
2006-Jan-31	20:15	233	6.1	4.6	14.46	5.2	3.9	0		
2006-Jan-31	20:16	229	6.0	7.6	14.83	5.1	6.5	0		
2006-Jan-31	20:16	243	6.0	10.6	15.17	5.1	9.0	0		
2006-Jan-31	20:17	224	6.0	13.6	15.01	5.1	11.6	0		
2006-Jan-31	20:17	238	6.1	16.6	14.94	5.1	14.1	0		
2006-Jan-31	20:18	229	6.1	19.7	14.91	5.2	16.8	0		
2006-Jan-31	20:18	206	6.0	22.7	14.88	5.2	19.4	0		
2006-Jan-31	20:19	211	6.0	25.7	14.84	5.1	21.9	0		
2006-Jan-31	20:19	206	6.0	28.7	14.81	5.2	24.5	0		
2006-Jan-31	20:20	211	6.0	31.8	14.88	5.2	27.1	0		
2006-Jan-31	20:20	211	6.0	34.8	14.87	5.2	29.6	0		
2006-Jan-31	20:21	206	6.0	37.8	14.81	5.1	32.2	0		
2006-Jan-31	20:21	211	6.0	40.8	14.86	5.2	34.8	0		
2006-Jan-31	20:22	206	6.0	43.8	14.93	5.1	37.4	0		
2006-Jan-31	20:22	179	6.0	46.8	15.20	5.1	39.9	0		
2006-Jan-31	20:23	165	6.1	49.8	15.20	5.1	42.5	0		
2006-Jan-31	20:23	288	6.0	52.8	15.28	5.6	45.1	0		
2006-Jan-31	20:24	-5	0.5	55.7	13.47	4.6	47.9	0		
2006-Jan-31	20:24								End Tail Slurry	
2006-Jan-31	20:24	-5	0.0	55.7	13.54	1.4	48.1	0		
2006-Jan-31	20:24								Reset Total, Vol = 55.69 bbl	
2006-Jan-31	20:24	0	0.0	55.7	13.53	0.8	48.1	0		
2006-Jan-31	20:24								Drop Top Plug	
2006-Jan-31	20:24								Start Displacement	
2006-Jan-31	20:24	0	0.0	0.0	3.58	0.1	0.0	0		
2006-Jan-31	20:24	-5	0.0	0.0	-0.00	0.0	0.1	0		
2006-Jan-31	20:25	-5	0.0	0.0	9.33	2.8	1.1	0		
2006-Jan-31	20:25	-5	0.0	0.0	9.21	3.0	2.6	0		
2006-Jan-31	20:26	-5	0.0	0.0	9.03	0.4	4.0	0		
2006-Jan-31	20:26	-5	0.0	0.0	9.21	0.0	4.0	0		

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Well			Field			Service Date		Customer		Job Number
ELERDING B #2			HUGOTON			0631-Jan-31		OXY USA, INC.		2205549192
Date	Time	Treating Pressure	Flow Rate	CMT VOL	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0		
2006-Jan-31	20:27	128	6.1	1.7	8.96	6.2	5.6	0		
2006-Jan-31	20:28	105	5.9	4.7	8.94	6.2	8.7	0		
2006-Jan-31	20:28	137	6.0	7.8	8.35	6.2	11.9	0		
2006-Jan-31	20:29	133	5.6	10.6	8.35	5.7	14.8	0		
2006-Jan-31	20:29	133	5.6	13.4	8.38	5.8	17.7	0		
2006-Jan-31	20:30	142	5.6	16.2	8.35	5.7	20.6	0		
2006-Jan-31	20:30	179	6.2	19.2	8.35	6.4	23.6	0		
2006-Jan-31	20:31	192	6.4	22.4	8.36	6.5	22.4	0		
2006-Jan-31	20:31	206	6.4	25.6	8.35	6.9	25.8	0		
2006-Jan-31	20:32	215	6.4	28.7	8.35	6.5	29.0	0		
2006-Jan-31	20:32	229	6.4	32.0	8.35	6.5	32.3	0		
2006-Jan-31	20:33	238	6.4	35.2	8.35	6.5	35.5	0		
2006-Jan-31	20:33	247	6.6	38.4	8.35	6.8	38.8	0		
2006-Jan-31	20:34	266	6.4	41.6	8.35	6.5	42.1	0		
2006-Jan-31	20:34	279	6.5	44.9	8.35	6.6	45.4	0		
2006-Jan-31	20:35	293	6.5	48.1	8.35	6.6	48.7	0		
2006-Jan-31	20:35	311	6.5	51.3	8.35	6.7	52.0	0		
2006-Jan-31	20:36	325	6.6	54.6	8.35	6.6	55.3	0		
2006-Jan-31	20:36	357	6.5	57.8	8.35	6.6	58.6	0		
2006-Jan-31	20:37	366	6.6	61.1	8.35	6.7	61.9	0		
2006-Jan-31	20:37	394	6.6	64.3	8.35	6.5	65.2	0		
2006-Jan-31	20:38	412	6.6	67.6	8.35	6.7	68.5	0		
2006-Jan-31	20:38	444	6.6	70.9	8.35	6.7	71.9	0		
2006-Jan-31	20:39	462	6.6	74.3	8.35	6.8	75.3	0		
2006-Jan-31	20:39	485	6.7	77.7	8.35	6.8	78.7	0		
2006-Jan-31	20:40	513	6.7	81.0	8.35	6.8	82.1	0		
2006-Jan-31	20:40	522	6.7	84.4	8.35	6.8	85.5	0		
2006-Jan-31	20:41	526	6.3	87.7	8.35	6.9	88.9	0		
2006-Jan-31	20:41	531	6.1	90.8	8.35	6.1	92.0	0		
2006-Jan-31	20:42	554	6.0	93.8	8.35	6.1	95.0	0		
2006-Jan-31	20:42	577	6.0	96.8	8.35	6.1	98.0	0		
2006-Jan-31	20:43	595	6.0	99.8	8.35	6.1	101.1	0		
2006-Jan-31	20:43	490	2.7	102.4	8.35	2.9	103.9	0		
2006-Jan-31	20:44	517	2.6	103.7	8.35	2.7	105.2	0		
2006-Jan-31	20:44	536	2.7	105.0	8.35	2.7	106.6	0		
2006-Jan-31	20:45	1044	0.0	106.1	8.35	0.3	107.8	0		
2006-Jan-31	20:45	1044	0.0	106.1	8.35	0.0	107.8	0		
2006-Jan-31	20:45								Bump Top Plug	
2006-Jan-31	20:45	1039	0.0	106.1	8.35	0.0	107.8	0		
2006-Jan-31	20:45								End Displacement	
2006-Jan-31	20:45								Reset Total, Vol = 106.11 bbl	
2006-Jan-31	20:45	1044	0.0	0.0	8.35	0.0	0.0	0		
2006-Jan-31	20:45	1039	0.0	0.0	8.35	0.0	0.0	0		
2006-Jan-31	20:46	499	0.0	0.0	8.35	0.0	0.0	0		
2006-Jan-31	20:46								End Job	
2006-Jan-31	20:46	5	0.0	0.0	8.35	0.0	0.0	0		

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Well ELERDING B #2		Field HUGOTON		Service Date 0631-Jan-31		Customer OXY USA, INC.		Job Number 2205549192	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	CMT VOL bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	0  0	Message
<b>Post Job Summary</b>									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2	
6			7		270	0	10		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density		
			1030			bbl		lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 106.5 bbl		Displacement 106.5 bbl	Mix Water Temp °F	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	70	bbl	
					<input type="checkbox"/> Washed Thru Perfs	To		ft	
Customer or Authorized Representative Fillpot, Greg			Schlumberger Supervisor Ahrends, Timothy			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

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Date	01/31/06
Company	OXY
Job Number	2205549192
Well Name	Elerding
Well Number	B 2
County	Stevens
State	KS

# Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	1718	
Shoe Length	46	
Insert Depth	1672	
Hole Size	12 1/4	
Hole Depth	1718	

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1st System	
575 sacks	C
2.18 yield	D132,D20,S1,D29
12.2 weight	
12.4 water	170
cubic ft.	1254
height	3037
bbls	223

236	Pipe Volume	109
	Annular Volume	126
	Total Cement	270
	Total Water	305

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

2nd System	
195 sacks	C
1.34 yield	S1,D29
14.8 weight	
6.3 water	29
cubic ft.	261
height	633
bbls	46.5

Casing lift 706  
Cement lift 407

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

Test 2000

0 Mud

10 Spacer

223 Lead **12.2**

47 Tail **14.8**

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

106.5 Displacement

1000 Maximum Pressure

Pump time @ 6 BPM

63 MIN

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## Cementing Service Report

Customer OXY USA, INC.						Job Number 2205549200								
Well ELERDING B 2			Location (legal) Sec 23-T34S-R35W			Schlumberger Location Perryton, TX			Job Start 2006-Feb-10					
Field HUGOTON		Formation Name/Type Clean-Sandstone			Deviation °		Bit Size 7.88 in	Well MD 6,400 ft	Well TVD 6,400 ft					
County STEVENS		State/Province KANSAS			BHP psi	BHST 144 °F	BHCT 115 °F	Pore Press. Gradient psi/ft						
Well Master: 0630763304		API / UWI:			Casing/Liner									
Rig Name MURFIN 20		Drilled For Gas		Service Via		Depth, ft 6401	Size, in 5.5	Weight, lb/ft 17	Grade N80	Thread 8RD				
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe								
Drilling Fluid Type Bentonite		Max. Density 9 lb/gal		Plastic Viscosity 30 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 5 1/2" H & M		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft				
Service Instructions Cmt 5 1/2" Prod casing with 20 bbls CW100 (25 SKS LEAD FOR RAT & MOUSE HOLES) 106 SKS Class C + 3%D79 + 0.2%D46 110 SKS 50/50 Poz: H+2%D20+3%M117+ 5 PPS D42+5 PPS D53+0.25 %D112+ 0.25 %D65 + 0.25%D46						Diameter in	Treat Down Casing	Displacement 147.5 bbl	Packer Type	Packer Depth ft				
						Tubing Vol. bbl	Casing Vol. 148.5 bbl	Annular Vol. 198 bbl	Open Hole Vol 386 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: 4880 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Float	Squeeze Type	
No. Centralizers: 12		Top Plugs: 1		Bottom Plugs:		Shoe Depth: ft	Tool Type:							
Cement Head Type: Single		Stage Tool Type: ft		Tool Depth: ft		Stage Tool Depth: ft	Tail Pipe Size: in							
Job Scheduled For:		Arrived on Location: 2006-Feb-10 8:00		Leave Location: 2006-Feb-10 13:30		Collar Type: Insert	Tail Pipe Depth: ft		Collar Depth: 6354 ft	Sqz Total Vol: bbl				
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	CMT STG VOL bbl	CMT VOL bbl	0	0	Message					
2006-Feb-10	11:31	0	0.0	8.29	0.0	0.0	0	0	KCC MAY 25 2006 CONFIDENTIAL					
2006-Feb-10	11:31	0	0.0	8.29	0.0	0.0	0	0						
2006-Feb-10	11:31								Start Job					
2006-Feb-10	11:31								Pressure Test Lines					
2006-Feb-10	11:32	64	4.5	8.32	0.3	0.3	0	0						
2006-Feb-10	11:32	0	0.0	8.28	1.1	1.1	0	0						
2006-Feb-10	11:33								Start CW100					
2006-Feb-10	11:33	0	0.0	8.28	1.1	1.1	0	0						
2006-Feb-10	11:33	1355	0.0	8.28	1.2	1.2	0	0						
2006-Feb-10	11:33	2408	0.0	8.28	1.2	1.2	0	0						
2006-Feb-10	11:34	14	0.0	8.28	1.2	1.2	0	0						
2006-Feb-10	11:34	119	2.7	8.28	1.6	1.6	0	0						
2006-Feb-10	11:35	247	5.6	8.29	3.9	3.9	0	0						
2006-Feb-10	11:35	256	5.7	8.31	6.7	6.7	0	0						
2006-Feb-10	11:36	279	5.8	8.29	9.6	9.6	0	0						
2006-Feb-10	11:36	284	5.9	8.29	12.5	12.5	0	0						
2006-Feb-10	11:37	288	5.9	8.29	15.5	15.5	0	0						
2006-Feb-10	11:37	293	6.1	8.28	18.5	18.5	0	0						
2006-Feb-10	11:38								Reset Total, Vol = 20.50 bbl					
2006-Feb-10	11:38	298	6.1	8.29	20.5	20.5	0	0						
2006-Feb-10	11:38	302	6.1	8.29	0.2	20.7	0	0						

Well			Field			Service Date		Customer		Job Number
ELERDING B #2			HUGOTON			0641-Feb-10		OXY USA, INC.		2205549200
Date	Time	Treating Pressure	Flow Rate	Density	CMT STG VOL	CMT VOL	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	bbl	0	0		
2006-Feb-10	11:38								Start Water Spacer	
2006-Feb-10	11:38	302	6.1	8.31	1.0	21.5	0	0		
2006-Feb-10	11:38	320	6.2	8.27	4.1	24.6	0	0		
2006-Feb-10	11:39	27	2.8	8.28	6.1	26.6	0	0		
2006-Feb-10	11:39								Reset Total, Vol = 6.15 bbl	
2006-Feb-10	11:39	18	0.0	8.29	0.1	26.8	0	0		
2006-Feb-10	11:39	5	0.0	8.29	0.1	26.8	0	0		
2006-Feb-10	11:39								Batch Mix Lead for Rat hole and mouse hole	
2006-Feb-10	11:39	5	3.9	8.36	0.1	26.8	0	0		
2006-Feb-10	11:40	5	4.9	10.75	0.1	26.8	0	0		
2006-Feb-10	11:40	5	5.2	11.01	0.1	26.8	0	0		
2006-Feb-10	11:41	5	5.2	11.00	0.1	26.8	0	0		
2006-Feb-10	11:41	60	5.9	11.00	0.1	26.8	0	0		
2006-Feb-10	11:42	87	3.0	10.98	1.7	28.4	0	0		
2006-Feb-10	11:42	82	3.0	10.98	3.2	29.9	0	0		
2006-Feb-10	11:43	82	3.0	10.97	4.7	31.4	0	0		
2006-Feb-10	11:43	5	5.6	9.67	5.2	31.9	0	0		
2006-Feb-10	11:44	9	4.9	10.37	5.2	31.9	0	0		
2006-Feb-10	11:44	9	5.0	10.69	5.2	31.9	0	0		
2006-Feb-10	11:45	9	5.2	10.89	5.2	31.9	0	0		
2006-Feb-10	11:45	9	5.1	11.35	5.2	31.9	0	0		
2006-Feb-10	11:46	87	3.0	11.34	6.5	33.1	0	0		
2006-Feb-10	11:46	87	3.0	11.35	8.0	34.6	0	0		
2006-Feb-10	11:47	87	3.0	11.34	9.5	36.1	0	0		
2006-Feb-10	11:47	0	0.1	11.21	10.7	37.3	0	0		
2006-Feb-10	11:48	9	0.0	11.05	10.7	37.3	0	0		
2006-Feb-10	11:48	5	0.0	9.02	10.8	37.4	0	0		
2006-Feb-10	11:49	37	0.0	8.94	10.8	37.4	0	0		
2006-Feb-10	11:49	197	3.4	10.24	11.5	38.2	0	0		
2006-Feb-10	11:50	252	5.0	10.98	13.8	40.5	0	0		
2006-Feb-10	11:50								Reset Total, Vol = 16.08 bbl	
2006-Feb-10	11:50	298	5.7	10.89	16.1	42.7	0	0		
2006-Feb-10	11:50	302	5.8	10.87	0.4	43.1	0	0		
2006-Feb-10	11:50								Start Mixing Lead Slurry	
2006-Feb-10	11:50	293	5.8	10.87	0.8	43.5	0	0		
2006-Feb-10	11:51	307	6.3	10.95	3.4	46.2	0	0		
2006-Feb-10	11:51	261	6.3	11.03	6.7	49.4	0	0		
2006-Feb-10	11:52	284	6.2	11.09	9.8	52.5	0	0		
2006-Feb-10	11:52	343	6.4	11.15	12.9	55.6	0	0		
2006-Feb-10	11:53	211	5.8	11.16	16.0	58.7	0	0		
2006-Feb-10	11:53	197	6.0	11.14	18.9	61.7	0	0		
2006-Feb-10	11:54	284	6.0	11.15	21.9	64.6	0	0		
2006-Feb-10	11:54	160	6.1	11.14	24.9	67.6	0	0		
2006-Feb-10	11:55	179	6.1	11.13	27.9	70.6	0	0		
2006-Feb-10	11:55	146	6.0	11.02	30.9	73.6	0	0		
2006-Feb-10	11:56	133	6.1	11.15	33.9	76.6	0	0		
2006-Feb-10	11:56	133	6.1	11.15	36.9	79.6	0	0		
2006-Feb-10	11:57	133	6.0	11.11	39.9	82.6	0	0		
2006-Feb-10	11:57	133	6.1	11.18	42.9	85.7	0	0		
2006-Feb-10	11:58	137	6.1	11.02	46.0	88.7	0	0		
2006-Feb-10	11:58	128	6.1	11.01	49.0	91.7	0	0		
2006-Feb-10	11:59	137	6.1	11.06	52.1	94.8	0	0		
2006-Feb-10	11:59	133	6.2	11.00	55.1	97.9	0	0		

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Well - ELERDING B #2			Field HUGOTON		Service Date 0641-Feb-10		Customer OXY USA, INC.		Job Number 2205549200
Date	Time	Treating Pressure	Flow Rate	Density	CMT STG VOL	CMT VOL	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	bbbl	0	0	
2006-Feb-10	12:00	142	6.1	11.28	58.2	100.9	0	0	
2006-Feb-10	12:00	142	6.1	11.65	61.1	103.8	0	0	
2006-Feb-10	12:00								Reset Total, Vol = 61.07 bbl
2006-Feb-10	12:00								End Lead Slurry
2006-Feb-10	12:00	146	6.2	11.72	0.1	103.9	0	0	
2006-Feb-10	12:00	142	6.2	11.77	0.2	104.0	0	0	
2006-Feb-10	12:00								Start Mixing Tail Slurry
2006-Feb-10	12:00	146	6.1	11.82	0.3	104.1	0	0	
2006-Feb-10	12:01	165	6.1	12.74	3.2	107.0	0	0	
2006-Feb-10	12:01	183	5.9	13.21	6.2	110.0	0	0	
2006-Feb-10	12:02	197	6.0	13.72	9.2	113.0	0	0	
2006-Feb-10	12:02	201	6.0	13.56	12.2	116.0	0	0	
2006-Feb-10	12:03	201	6.1	13.51	15.3	119.1	0	0	
2006-Feb-10	12:03	215	6.0	13.69	18.3	122.1	0	0	
2006-Feb-10	12:04	211	6.1	13.77	21.3	125.1	0	0	
2006-Feb-10	12:04	206	6.0	13.62	24.4	128.2	0	0	
2006-Feb-10	12:05	206	6.0	13.49	27.4	131.2	0	0	
2006-Feb-10	12:05	215	6.1	13.78	30.4	134.2	0	0	
2006-Feb-10	12:06	243	6.1	14.20	33.4	137.2	0	0	
2006-Feb-10	12:06	233	6.1	14.13	36.5	140.3	0	0	
2006-Feb-10	12:07	9	0.8	13.75	37.2	141.0	0	0	
2006-Feb-10	12:07								Reset Total, Vol = 37.19 bbl
2006-Feb-10	12:07	5	0.4	13.75	0.0	141.0	0	0	
2006-Feb-10	12:07								End Tail Slurry
2006-Feb-10	12:07	0	0.0	13.75	0.0	141.0	0	0	
2006-Feb-10	12:07	0	0.0	11.62	0.0	141.0	0	0	
2006-Feb-10	12:08	9	0.0	10.48	0.0	141.0	0	0	
2006-Feb-10	12:08	64	1.8	9.38	0.1	141.1	0	0	
2006-Feb-10	12:09	133	4.1	9.00	0.8	141.8	0	0	
2006-Feb-10	12:09	128	4.3	8.80	0.8	141.8	0	0	
2006-Feb-10	12:10	174	5.1	8.55	0.8	141.8	0	0	
2006-Feb-10	12:10	165	5.1	8.25	0.8	141.8	0	0	
2006-Feb-10	12:11	87	0.0	9.04	0.8	141.8	0	0	
2006-Feb-10	12:11	165	5.5	8.29	0.8	141.8	0	0	
2006-Feb-10	12:12	5	0.0	8.29	0.8	141.8	0	0	
2006-Feb-10	12:12	5	0.0	8.29	0.8	141.8	0	0	
2006-Feb-10	12:13	64	5.3	8.29	2.9	143.9	0	0	
2006-Feb-10	12:13	64	5.3	8.29	5.5	146.5	0	0	
2006-Feb-10	12:14	64	5.3	8.29	8.2	149.1	0	0	
2006-Feb-10	12:14	60	5.8	8.29	10.9	151.9	0	0	
2006-Feb-10	12:15	60	5.9	8.29	13.9	154.9	0	0	
2006-Feb-10	12:15	60	5.8	8.29	16.8	157.8	0	0	
2006-Feb-10	12:16	60	5.9	8.29	19.8	160.7	0	0	
2006-Feb-10	12:16	60	5.9	8.29	22.7	163.7	0	0	
2006-Feb-10	12:17	82	6.7	8.29	26.0	166.9	0	0	
2006-Feb-10	12:17	82	6.8	8.29	29.3	170.3	0	0	
2006-Feb-10	12:18	82	6.7	8.29	32.7	173.7	0	0	
2006-Feb-10	12:18	82	6.8	8.29	36.0	177.0	0	0	
2006-Feb-10	12:19	82	6.8	8.29	39.4	180.4	0	0	
2006-Feb-10	12:19	82	6.8	8.29	42.8	183.8	0	0	
2006-Feb-10	12:20	82	6.8	8.29	46.2	187.2	0	0	
2006-Feb-10	12:20	87	6.8	8.29	49.6	190.6	0	0	
2006-Feb-10	12:21	82	6.8	8.29	53.0	194.0	0	0	
2006-Feb-10	12:21	82	6.8	8.29	56.4	197.4	0	0	

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Well			Field		Service Date		Customer		Job Number
ELERDING B #2			HUGOTON		0641-Feb-10		OXY USA, INC.		2205549200
Date	Time	Treating Pressure	Flow Rate	Density	CMT STG VOL	CMT VOL	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	bbbl	0	0	
2006-Feb-10	12:22	82	6.8	8.29	59.8	200.8	0	0	
2006-Feb-10	12:22	87	6.9	8.29	63.3	204.2	0	0	
2006-Feb-10	12:23	82	6.9	8.29	66.7	207.7	0	0	
2006-Feb-10	12:23	82	6.8	8.29	70.1	211.1	0	0	
2006-Feb-10	12:24	87	6.9	8.29	73.6	214.6	0	0	
2006-Feb-10	12:24	87	6.9	8.29	77.0	218.0	0	0	
2006-Feb-10	12:25	87	6.9	8.29	80.4	221.4	0	0	
2006-Feb-10	12:25	87	6.8	8.29	83.9	224.9	0	0	
2006-Feb-10	12:26	87	6.9	8.29	87.3	228.3	0	0	
2006-Feb-10	12:26	60	5.5	8.29	90.5	231.5	0	0	
2006-Feb-10	12:27	60	5.5	8.29	93.2	234.2	0	0	
2006-Feb-10	12:27	64	4.2	8.29	95.9	236.9	0	0	
2006-Feb-10	12:28	64	3.9	8.29	97.9	238.9	0	0	
2006-Feb-10	12:28	128	4.6	8.29	99.9	240.9	0	0	
2006-Feb-10	12:29	165	5.4	8.29	102.5	243.5	0	0	
2006-Feb-10	12:29	211	5.3	8.29	105.2	246.2	0	0	
2006-Feb-10	12:30	224	5.4	8.29	107.9	248.9	0	0	
2006-Feb-10	12:30	252	5.4	8.29	110.6	251.6	0	0	
2006-Feb-10	12:31	307	5.4	8.29	113.2	254.2	0	0	
2006-Feb-10	12:31	352	5.4	8.29	115.9	256.9	0	0	
2006-Feb-10	12:32	398	5.4	8.29	118.6	259.6	0	0	
2006-Feb-10	12:32	435	5.4	8.29	121.3	262.3	0	0	
2006-Feb-10	12:33	485	5.4	8.29	124.0	265.0	0	0	
2006-Feb-10	12:33	526	5.4	8.29	126.7	267.7	0	0	
2006-Feb-10	12:34	577	5.5	8.29	129.4	270.4	0	0	
2006-Feb-10	12:34	613	5.4	8.29	132.1	273.1	0	0	
2006-Feb-10	12:35	700	5.5	8.29	134.9	275.8	0	0	
2006-Feb-10	12:35	742	5.5	8.29	137.6	278.6	0	0	
2006-Feb-10	12:36	797	5.6	8.29	140.3	281.3	0	0	
2006-Feb-10	12:36	870	5.5	8.29	143.1	284.1	0	0	
2006-Feb-10	12:37	870	5.6	8.29	145.9	286.9	0	0	
2006-Feb-10	12:37	737	2.4	8.29	147.5	288.5	0	0	
2006-Feb-10	12:38	829	2.3	8.29	148.7	289.7	0	0	
2006-Feb-10	12:38	760	2.3	8.29	149.9	290.9	0	0	
2006-Feb-10	12:39	1346	0.0	8.29	150.5	291.5	0	0	
2006-Feb-10	12:39	1318	0.0	8.29	150.5	291.5	0	0	
2006-Feb-10	12:40	1309	0.0	8.29	150.5	291.5	0	0	
2006-Feb-10	12:40	0	0.0	8.29	150.5	291.5	0	0	
2006-Feb-10	12:41	0	0.0	8.29	150.5	291.5	0	0	
2006-Feb-10	12:41	41	1.5	8.28	150.6	291.6	0	0	
2006-Feb-10	12:41								Reset Total, Vol = 150.65 bbl
2006-Feb-10	12:41								End Displacement. 144 bbl by truck
2006-Feb-10	12:41	55	2.5	8.29	0.0	291.6	0	0	
2006-Feb-10	12:41	55	2.7	8.29	0.0	291.6	0	0	
2006-Feb-10	12:41								End Job
2006-Feb-10	12:41	55	2.8	8.29	0.0	291.6	0	0	

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Well		Field		Service Date		Customer		Job Number	
ELERDING B #2		HUGOTON		0641-Feb-10		OXY USA, INC.		2205549200	
Date	Time	Treating Pressure	Flow Rate	Density	CMT STG VOL	CMT VOL	0	0	Message
	24 hr clock	psi	bbf/min	lb/gal	bbf	bbf	0	0	
<b>Post Job Summary</b>									
Average Pump Rates, bpm					Volume of Fluid Injected, bbf				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5.5			7	99		20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
720		200	1500			8.34 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface?		Volume			
%	92 bbf	144 bbf	60 °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	
Fillpot, Greg			Grigoriev, Valeriy						

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Client: Oxy USA  
 Well Name: Elrding B  
 Well Number: 2  
 Legal Location: Sec 23-T34S-R35W  
 County: Stevens  
 State: KS

Job Number: 2205549197  
 Job Type: LS  
 Hole Size: 7 7/8  
 Casing Size: 5 1/2  
 Total Depth: 6400  
 DV Tool @

**Fluid Systems**

<b>Mud:</b>	bbl	
weight:	9 lb/gal	
height	feet	

<b>Wash:</b>	20 bbl	CW100			
weight:	8.35 lb/gal	volumes:	112 cuft	slurry:	20 bbls
yield:	cuft/sk	height:	648 feet	water:	20 bbls
mix req:	gal/sk				

<b>Lead:</b>	106 sks	Class C + 3%D079 + 0.2%D046			
weight:	11 lb/gal	volumes:	349 cuft	slurry:	62 bbls
yield:	3.29 cuft/sk	height:	2,013 feet	water:	53 bbls
mix req:	20.84 gal/sk			Thickening Time:	hr:min

<b>Tail:</b>	110 sks	50/50 POZ/H + 2%D020 + 3%M117 + 5 pps D042 + 5 pps D053 + 0.25%D112 + 0.25%D065 + 0.25%D046			
weight:	13.8 lb/gal	volumes:	171 cuft	slurry:	30 bbls
yield:	1.55 cuft/sk	height:	984 feet	water:	19 bbls
mix req:	7.24 gal/sk			Thickening Time:	hr:min

<b>Displacement:</b>	147.72 bbl	Fresh Water	density	8.33 lb/gal
Total:	147.72 bbl			

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**Casing Data**

MAY 25 2006

O.D.	5.500 inches	CSG vol:	0.0232 bbl/ft	Ann. vol:	0.0309 bbl/ft
I.D.	4.892 inches	OH vol:	0.0602 bbl/ft		5.7715 ft/cuft
<b>Csg Wt:</b>	<b>Feet</b>	<b>volume</b>	<b>Shoe Joint Length</b>		
0.023	17	6401.00	148.50 bbls.	Csg:	47.00 feet
0.077	36		0.00 bbls.	Shoe:	feet
0.077	36		0.00 bbls.	Collar:	feet

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**Volumes**

<b>Total Depth</b>	6400 feet	1.00 Above Floor		
<b>Total Pipe</b>	6401 feet	148.50 bbls.	<b>Open Hole</b>	385.56 bbls.
<b>Shoe Joint</b>	47 feet	1.09 bbls.	<b>Annulus</b>	197.52 bbls.
<b>Float Collar@</b>	6354 feet	147.72 bbls.	<b>Total Water</b>	287 bbls needed
<b>Post Job Info</b>				
<b>TOC LEAD</b>	3,404 ft	<b>Final Diff. Pressure</b>	psi	
<b>TOC TAIL</b>	5,417 ft	<b>Bump Top Plug to</b>	psi @ approx.	hours
<b>Excess</b>	10 %			

<b>Casing Wt (Air)</b>	108,817 lbs.	<b>Casing Area ID</b>	18.7959 sq in.
<b>Hyd PSI(Annulus)</b>	3,451 psi	<b>Hyd PSI(Casing)</b>	2,786 psi
<b>Csg Cross Sect.</b>	4.9624 sq in.	<b>#VALUE!</b>	2,786
<b>Bouyancy</b>	17,123 lbs.	<b>Casing Lift Pressure</b>	4,878 psi
<b>Hook Load</b>	91,694 lbs.	<b>Differential Lift Pressure</b>	~665 psi

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Pressure Test: 2000 psi  
Top Pressure : 1500 psi

20 bbl CW100  
5 bbl Water Spacer  
62 bbl Lead Slurry @ 11.0 ppg  
30 bbl Tail Slurry @ 13.8 ppg  
SDDP Wash lines  
148 bbl Fresh Water Displacement  
Bump Plug @ 1500 psi

Differential P = 665 psi  
Lift Pressure = 4878 psi

Total Water Needed= 287 bbl

0021  
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