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KCC WICHITA

CONFIDENTIAL

ORIGINAL

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: Southern Star
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: NA
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.
06/29/04 07/03/04 07/27/04
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 067-21584-0000
County: Grant
SW - SW - NE - SE Sec 36 Twp. 28 S. R. 37W
1390 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: Stubbs A Well #: 4
Field Name: Panoma Field
Producing Formation: Council Grove
Elevation: Ground: 3058 Kelly Bushing: 3069
Total Depth: 3105 Plug Back Total Depth: 3060
Amount of Surface Pipe Set and Cemented at 748 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 Alt I with 8-20-07
(Data must be collected from the Reserve Pit)
Chloride content 14500 mg/l 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 [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 October 22, 2004
Subscribed and sworn to before me this 22nd day of October
20 04
Notary Public: Kathleen R. Poulton
Date Commission Expires: November 3, 2006

KCC Office Use Only
[X] Letter of Confidentiality Attached
If Denied, Yes [ ] Date:
[X] Wireline Log Received
Geologist Report Received
UIC Distribution



ORIGINAL

Side Two

Operator Name: OXY USA Inc. Lease Name: Stubbs A Well #: 4

Sec. 36 Twp. 28 S. R. 37W 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy)
List All E. Logs Run: Induction Neutron Sonic Microlog
Log Formation (Top), Depth and Datum Sample
Name Top Datum
Herington 2485 584
Krider 2510 559
Winfield 2552 517
Towanda 2610 459
Ft. Riley 2667 402
Wreford 2752 317
Council Grove 2773 296

CASING RECORD New Used
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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

ADDITIONAL CEMENTING / SQUEEZE RECORD

Table with columns: Purpose (Perforate, Protect Casing, Plug Back TD, Plug off Zone), Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives

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 2505-2508, 2513-2517, 2867-2873 31 bbls 15% HCL-FE Acid
4 2793-2798, 2802-2826, 2829-2851 3000 gls 15% HCL
Divert Frac - 672 bbls 30# gel + 11,075#
100 mesh sand, 779 bbls 70QN2, 172,194#
12/20 sand, Dump 100 gls 5% acetic acid.

TUBING RECORD Size Set At Packer At Liner Run
2 3/8 2957 Yes No

Date of First, Resumed Production, SWD or Enhr. 08/13/04
Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil BBLS Gas Mcf Water Bbls Gas-Oil Ratio Gravity
150 3

Disposition of Gas

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
Other (Specify)



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**Cementing Service Report**

Customer OXY USA, INC.						KCC			Job Number 2205546229	
Well STUBBS 'A' 4			Location (legal) OCT 2 2 2004			Schlumberger Location Perryton, TX			Job Start	
Field		Formation Name/Type CONFIDENTIAL			Deviation		Bit Size 7.88 in	Well MD 3,105 ft	Well TVD 3,105 ft	
County GRANT		State/Province KANSAS			BHP psi	BHST 111 °F	BHCT °F	Pore Press. Gradient psi/ft		
Well Master: 0630596884		API / UWI:			Casing/Liner					
Rig Name MURFIN 20	Drilled For Oil & Gas		Service Via		Depth, ft 3104	Size, in 4.5	Weight, lb/ft 10.5	Grade	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 Prod Casing				Perforations/Open Hole				
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi	WellHead Connection 4 1/2 HSM			Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft
Service Instructions CEMENT 4 1/2 PROD. CASING WITH: 20 BBL CW100 25 SKS CLASS C+ADDS. (RAT/MOUSE) 200 SKS CLASS C+3%D79+0.2%D46+0.25PPS D29 (LEAD) 260 SKS 50/50 POZ CLASS H + ADDS. (TAIL) DISPLACE WITH 2% KCL & 1 lb. B69					Diameter in	Treat Down Casing	Displacement 48.7 bbl	Packer Type	Packer Depth ft	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>			Casing Tools			Squeeze Job		
Lift Pressure: 750 psi		Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>			Shoe Type:		Squeeze Type		
No. Centralizers:		Top Plugs: 1	Bottom Plugs: 1		Shoe Depth: 3104 ft		Tool Type:			
Cement Head Type: Single				Stage Tool Type:		Tool Depth: ft		Tail Pipe Size: in		
Job Scheduled For:		Arrived on Location:	Leave Location:		Stage Tool Depth: ft		Tail Pipe Depth: ft		Tail Pipe Depth: ft	
						Collar Type:		Collar Depth: 3060 ft		
						Collar Depth: 3060 ft		Sqz Total Vol: bbl		
Date	Time	Treating Pressure 24 hr clock psi	Density lb/gal	Pump Rate bbl/min	Pump Vol bbl	SK FLOWMETER bbl/min	0	0	Message	
2004-Jul-03	11:33	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:33	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:33								Start Job	
2004-Jul-03	11:33								Pressure Test Lines	
2004-Jul-03	11:33	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:33	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:34	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:34	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:35	-14	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:35	2028	8.46	0.0	0.1	0.0	0	0		
2004-Jul-03	11:36	4491	8.47	0.0	0.1	0.0	0	0		
2004-Jul-03	11:36	78	8.47	0.0	0.1	0.0	0	0		
2004-Jul-03	11:37	73	8.47	0.0	0.1	0.0	0	0		
2004-Jul-03	11:37								Start Pumping Wash	
2004-Jul-03	11:37	73	8.47	0.0	0.1	0.0	0	0		
2004-Jul-03	11:37	73	8.47	0.0	0.1	0.0	0	0		
2004-Jul-03	11:37								Reset Total, Vol = 0.11 bbl	
2004-Jul-03	11:37	119	8.47	0.0	0.0	0.0	0	0		
2004-Jul-03	11:38	137	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:38	114	8.46	0.0	0.0	0.0	0	0		
2004-Jul-03	11:39	142	8.47	0.0	0.0	0.0	0	0		
2004-Jul-03	11:39	137	8.47	0.0	0.0	0.0	0	0		

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4						OXY USA, INC.		2205546229	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-03	11:40	128	8.46	0.0	0.0	0.0	0	0	
2004-Jul-03	11:40	142	8.46	0.0	0.0	0.0	0	0	
2004-Jul-03	11:41	119	8.46	0.0	0.0	0.0	0	0	
2004-Jul-03	11:41	142	8.45	0.0	0.0	0.0	0	0	
2004-Jul-03	11:42	156	8.44	3.0	0.2	0.0	0	0	
2004-Jul-03	11:42	110	8.44	3.2	1.8	0.0	0	0	
2004-Jul-03	11:43	-18	8.44	0.0	2.1	0.0	0	0	
2004-Jul-03	11:43								End Wash
2004-Jul-03	11:43								Reset Total, Vol = 2.12 bbl
2004-Jul-03	11:43	-9	8.44	0.0	2.1	0.0	0	0	
2004-Jul-03	11:43	-9	8.44	0.0	0.0	0.0	0	0	
2004-Jul-03	11:43	-9	8.44	0.0	0.0	0.0	0	0	
2004-Jul-03	11:43								Start Mixing Lead Slurry
2004-Jul-03	11:43	-9	8.44	0.0	0.0	0.0	0	0	
2004-Jul-03	11:44	0	9.50	0.0	0.0	0.0	0	0	
2004-Jul-03	11:44	18	11.90	0.0	0.0	0.0	0	0	
2004-Jul-03	11:45	-14	11.96	0.3	0.0	0.0	0	0	
2004-Jul-03	11:45	14	12.18	1.8	0.8	0.0	0	0	
2004-Jul-03	11:46	64	12.75	2.5	1.8	0.0	0	0	
2004-Jul-03	11:46	69	11.94	2.5	3.1	0.0	0	0	
2004-Jul-03	11:47	60	12.24	2.5	4.4	0.0	0	0	
2004-Jul-03	11:47	73	11.62	2.5	5.7	0.0	0	0	
2004-Jul-03	11:48	5	11.02	0.0	6.1	0.0	0	0	
2004-Jul-03	11:48	0	11.18	0.0	6.1	0.0	0	0	
2004-Jul-03	11:49	-5	11.31	0.0	6.1	0.0	0	0	
2004-Jul-03	11:49	-5	11.40	0.0	6.1	0.0	0	0	
2004-Jul-03	11:50	-5	11.46	0.0	6.1	0.0	0	0	
2004-Jul-03	11:50	-5	11.38	0.0	6.1	0.0	0	0	
2004-Jul-03	11:51	-18	12.30	2.7	6.8	0.0	0	0	
2004-Jul-03	11:51	-32	12.53	2.1	8.0	0.0	0	0	
2004-Jul-03	11:52	14	12.30	2.1	9.1	0.0	0	0	
2004-Jul-03	11:52	41	12.00	2.0	10.1	0.0	0	0	
2004-Jul-03	11:53	37	11.72	2.1	11.1	0.0	0	0	
2004-Jul-03	11:53	14	11.47	1.5	12.2	0.0	0	0	
2004-Jul-03	11:54	-14	11.75	0.0	12.2	0.0	0	0	
2004-Jul-03	11:54	-9	11.69	0.0	12.2	0.0	0	0	
2004-Jul-03	11:55	179	11.98	4.9	13.3	0.0	0	0	
2004-Jul-03	11:55	302	12.07	5.6	15.9	0.0	0	0	
2004-Jul-03	11:56	261	13.53	5.6	18.7	0.0	0	0	
2004-Jul-03	11:56	233	12.72	5.6	21.5	0.0	0	0	
2004-Jul-03	11:57	174	12.37	5.6	24.3	0.0	0	0	
2004-Jul-03	11:57	151	11.87	5.6	27.1	0.0	0	0	
2004-Jul-03	11:58	124	12.13	5.7	30.0	0.0	0	0	
2004-Jul-03	11:58	105	12.26	5.6	32.9	0.0	0	0	
2004-Jul-03	11:59	119	12.14	5.7	35.7	0.0	0	0	
2004-Jul-03	11:59	114	12.03	5.6	38.6	0.0	0	0	
2004-Jul-03	12:00	114	12.14	5.7	41.4	0.0	0	0	
2004-Jul-03	12:00	124	12.32	5.7	44.2	0.0	0	0	
2004-Jul-03	12:01	114	12.19	5.6	47.0	0.0	0	0	
2004-Jul-03	12:01	96	11.97	5.7	49.9	0.0	0	0	
2004-Jul-03	12:02	92	12.00	5.6	52.7	0.0	0	0	
2004-Jul-03	12:02	101	12.06	5.6	55.5	0.0	0	0	
2004-Jul-03	12:03	96	11.96	5.6	58.4	0.0	0	0	
2004-Jul-03	12:03	92	11.92	5.6	61.2	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4						OXY USA, INC.		2205546229	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-03	12:04	105	11.91	5.6	64.0	0.0	0	0	
2004-Jul-03	12:04	101	11.92	5.7	66.8	0.0	0	0	
2004-Jul-03	12:05	110	11.98	5.6	69.7	0.0	0	0	
2004-Jul-03	12:05	105	11.98	5.6	72.5	0.0	0	0	
2004-Jul-03	12:06	105	12.05	5.7	75.3	0.0	0	0	
2004-Jul-03	12:06	105	12.11	5.7	78.1	0.0	0	0	
2004-Jul-03	12:07	114	12.11	5.6	81.0	0.0	0	0	
2004-Jul-03	12:07	110	12.01	5.7	83.8	0.0	0	0	
2004-Jul-03	12:08	101	11.92	5.7	86.6	0.0	0	0	
2004-Jul-03	12:08	96	11.98	5.7	89.5	0.0	0	0	
2004-Jul-03	12:09	101	11.88	5.7	92.3	0.0	0	0	
2004-Jul-03	12:09	114	11.93	5.6	95.1	0.0	0	0	
2004-Jul-03	12:10	119	12.40	5.6	98.1	0.0	0	0	
2004-Jul-03	12:10	101	11.82	5.7	100.9	0.0	0	0	
2004-Jul-03	12:11	96	11.70	5.7	102.6	0.0	0	0	
2004-Jul-03	12:11								End Lead Slurry
2004-Jul-03	12:11	82	11.77	5.7	102.8	0.0	0	0	
2004-Jul-03	12:11								Reset Total, Vol = 102.79 bbl
2004-Jul-03	12:11	101	11.82	5.7	0.2	0.0	0	0	
2004-Jul-03	12:11								Start Mixing Tail Slurry
2004-Jul-03	12:11	96	12.02	5.8	1.0	0.0	0	0	
2004-Jul-03	12:11	128	13.01	5.7	3.8	0.0	0	0	
2004-Jul-03	12:12	137	13.42	5.6	6.6	0.0	0	0	
2004-Jul-03	12:12	151	13.74	5.6	9.5	0.0	0	0	
2004-Jul-03	12:13	156	13.56	5.6	12.3	0.0	0	0	
2004-Jul-03	12:13	156	13.87	5.6	15.1	0.0	0	0	
2004-Jul-03	12:14	160	13.62	5.6	17.9	0.0	0	0	
2004-Jul-03	12:14	165	14.04	5.6	20.7	0.0	0	0	
2004-Jul-03	12:15	183	13.88	5.6	23.5	0.0	0	0	
2004-Jul-03	12:15	146	13.68	5.6	26.3	0.0	0	0	
2004-Jul-03	12:16	156	13.72	5.6	29.1	0.0	0	0	
2004-Jul-03	12:16	160	13.63	5.6	31.9	0.0	0	0	
2004-Jul-03	12:17	151	13.58	5.6	34.8	0.0	0	0	
2004-Jul-03	12:17	142	13.78	5.6	37.6	0.0	0	0	
2004-Jul-03	12:18	160	13.64	5.6	40.4	0.0	0	0	
2004-Jul-03	12:18	146	13.56	5.6	43.2	0.0	0	0	
2004-Jul-03	12:19	146	13.77	5.6	46.0	0.0	0	0	
2004-Jul-03	12:19	137	13.49	5.7	48.9	0.0	0	0	
2004-Jul-03	12:20	151	13.73	5.6	51.7	0.0	0	0	
2004-Jul-03	12:20	179	14.07	5.6	54.5	0.0	0	0	
2004-Jul-03	12:21	192	14.15	5.6	57.3	0.0	0	0	
2004-Jul-03	12:21	179	14.11	5.6	60.1	0.0	0	0	
2004-Jul-03	12:22	169	14.07	5.6	63.1	0.0	0	0	
2004-Jul-03	12:22	179	14.00	5.6	65.9	0.0	0	0	
2004-Jul-03	12:23	165	14.01	5.6	68.7	0.0	0	0	
2004-Jul-03	12:23	188	14.88	5.6	71.5	0.0	0	0	
2004-Jul-03	12:24	-9	15.19	0.0	74.1	0.0	0	0	
2004-Jul-03	12:24	-9	15.19	0.0	74.1	0.0	0	0	
2004-Jul-03	12:24								End Tail Slurry
2004-Jul-03	12:24	-9	15.19	0.0	74.1	0.0	0	0	
2004-Jul-03	12:24								Reset Total, Vol = 74.13 bbl
2004-Jul-03	12:24	-9	15.19	0.0	0.0	0.0	0	0	
2004-Jul-03	12:24								Drop Top Plug
2004-Jul-03	12:24	-14	15.19	0.0	0.0	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4						OXY USA, INC.		2205546229	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jul-03	12:24								Start Displacement
2004-Jul-03	12:24	-14	15.23	0.0	0.0	0.0	0	0	
2004-Jul-03	12:29	-23	8.46	0.0	0.0	0.0	0	0	
2004-Jul-03	12:29	5	8.46	4.0	1.0	0.0	0	0	
2004-Jul-03	12:30	0	8.47	3.8	3.0	0.0	0	0	
2004-Jul-03	12:30	14	8.47	3.9	4.9	0.0	0	0	
2004-Jul-03	12:31	37	8.47	5.1	7.1	0.0	0	0	
2004-Jul-03	12:31	32	8.47	5.1	9.7	0.0	0	0	
2004-Jul-03	12:32	32	8.46	5.1	12.3	0.0	0	0	
2004-Jul-03	12:32	165	8.47	4.9	14.7	0.0	0	0	
2004-Jul-03	12:33	183	8.47	4.7	17.1	0.0	0	0	
2004-Jul-03	12:33	275	8.47	4.7	19.5	0.0	0	0	
2004-Jul-03	12:34	288	8.47	4.6	21.8	0.0	0	0	
2004-Jul-03	12:34	343	8.47	4.6	24.2	0.0	0	0	
2004-Jul-03	12:35	476	8.47	4.5	26.5	0.0	0	0	
2004-Jul-03	12:35	421	8.47	4.6	28.7	0.0	0	0	
2004-Jul-03	12:36	531	8.47	4.5	31.0	0.0	0	0	
2004-Jul-03	12:36	453	8.47	4.5	33.3	0.0	0	0	
2004-Jul-03	12:37	586	8.47	4.4	35.5	0.0	0	0	
2004-Jul-03	12:37	632	8.47	4.4	37.7	0.0	0	0	
2004-Jul-03	12:38	641	8.47	3.9	39.9	0.0	0	0	
2004-Jul-03	12:38	549	8.47	2.1	40.8	0.0	0	0	
2004-Jul-03	12:39	632	8.47	2.1	41.8	0.0	0	0	
2004-Jul-03	12:39	673	8.47	2.1	42.9	0.0	0	0	
2004-Jul-03	12:40	673	8.47	2.1	44.0	0.0	0	0	
2004-Jul-03	12:40	710	8.47	2.0	45.0	0.0	0	0	
2004-Jul-03	12:41	714	8.47	2.0	46.0	0.0	0	0	
2004-Jul-03	12:41	769	8.47	2.0	47.0	0.0	0	0	
2004-Jul-03	12:42	778	8.47	1.9	48.0	0.0	0	0	
2004-Jul-03	12:42	774	8.47	1.9	47.5	0.0	0	0	
2004-Jul-03	12:43	1396	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:43	1401	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44	1405	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44	-9	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44								Bump Top Plug
2004-Jul-03	12:44	-9	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44	-14	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44								End Displacement
2004-Jul-03	12:44	-9	8.47	0.0	47.8	0.0	0	0	
2004-Jul-03	12:44								Reset Total, Vol = 47.85 bbl
2004-Jul-03	12:44								End Job
2004-Jul-03	12:44	-9	8.47	0.0	0.0	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4						OXY USA, INC.		2205546229	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
<b>Post Job Summary</b>									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5			5.7	165	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1200		700	1200		bbl	8.43 lb/gal			
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	20	bbl	
%	165 bbl		48.7 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed			
Fillpot, Greg			Landeros, Feliverto						

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**THE FOLLOWING GENERAL TERMS AND CONDITIONS OF THIS CONTRACT CONTAIN INDEMNITY PROVISIONS - PLEASE READ CAREFULLY.**

1. **Acceptance.** By requesting Schlumberger's services, equipment, or products, Customer voluntarily elects to enter into and be bound by these General Terms and Conditions.
2. **Definition.**
  - a. Schlumberger – Schlumberger Technology Corporation, a Texas corporation.
  - b. Customer – the person, firm or other entity to which equipment and/or services are supplied or provided.
  - c. Group – Either Schlumberger or Customer and its respective parents, affiliates, subsidiaries, and each of their respective officers, directors, employees, agents and invitees.
3. **Terms.** Cash in advance unless Schlumberger has approved Customer's credit prior to the sale. Terms of sale for credit-approved accounts are total invoice amount due on or before the 30<sup>th</sup> day from the date of invoice. Customer shall pay interest on past due balances at the lesser of 1.5% per month or the maximum allowed by applicable state or federal law. If Customer's account becomes delinquent, Schlumberger shall have the right to revoke any and all previously applied discounts. Upon such revocation, the full invoice price without discount will become immediately due and owing and subject to collection. Customer hereby agrees to pay all fees directly or indirectly incurred in the collection of past due or delinquent accounts.
4. **Taxes.** Customer shall pay any and all taxes or other levies (other than income taxes) imposed by any government, governmental unit or similar authority with respect to the charges made or payments received in connection with Schlumberger's services, equipment or products.
5. **Independent Contractor.** Schlumberger is and shall be an independent contractor with respect to the performance of the services set forth on this Service Contract, and neither Schlumberger nor anyone employed by Schlumberger shall be the agent, representative, employee or servant of Customer in the performance of such services or any part hereof. When Contractor's employees (defined to include Schlumberger's direct, borrowed, special, or statutory employees) are covered by the Louisiana Workers' Compensation Act, La R.S. 23:1021 *et seq.*, Customer and Schlumberger agree that all work and operations performed by Schlumberger and its employees pursuant to this Contract are an integral part of and are essential to the ability of Customer to generate Customer's goods, products and services for purposes of La R.S. 23:1061 (A)(1). Furthermore, Customer and Schlumberger agree that Customer is the statutory employer of Schlumberger's employees for purposes of La R.S. 23:1061 (A)(3). Irrespective of Customer's status as the statutory employer or special employer (as defined in La R.S. 23:1031 (C)) of Schlumberger's employees, Schlumberger shall remain primarily responsible for the payment of Louisiana workers' compensation benefits to its employees, and shall not be entitled to seek contribution for any such payments from Customer.
6. **Obligations of Customer**
  - (a) **Well Conditions, Notification of Hazardous Conditions.** Customer, having custody and control of the well and superior knowledge of the conditions in and surrounding it, shall provide Schlumberger with all necessary information to enable Schlumberger to perform its services safely and efficiently. Schlumberger's equipment is designed to operate under conditions normally encountered in the well bore, however, if hazardous or unusual conditions exist, Customer shall notify Schlumberger in advance and make special arrangements for servicing such wells.
  - (b) **Chemicals.** The handling and disposal of any chemical, waste or by-product used or generated ("Chemicals") in the performance of the services are the sole responsibility of Customer, who is the owner and generator thereof. Customer agrees that it will transport and dispose of any such Chemicals in accordance with all applicable federal, state and local laws and regulations. Customer hereby waives, releases and agrees not to assert any claim or bring any cost recovery action against Schlumberger in connection with the use, generation, storage, transportation or disposal of Chemicals under any common law theories or federal, state or local environmental laws or regulations, now existing or hereinafter enacted, without regard to the cause or causes thereof or the negligence of any party.
  - (c) **Radioactive Sources.** If any radioactive source is lost in a well, at the well site, while being transported by Customer or a third-party on behalf of Customer, or while under the custody or control of Customer, Customer shall exert its best efforts to recover the source and shall take precautions in order to avoid breaking or damaging the source. If the source is not recovered, or if the container is broken, Customer shall immediately comply with all applicable laws and regulations, including the isolation and marking of the location of the source.
  - (d) **Fishing Operations.** Customer shall assume the entire responsibility for operations in which Customer or its representatives attempt to fish for equipment but Schlumberger will, without assuming liability and if so requested by Customer, render assistance for the recovery of such equipment.
7. **Warranty for Products and Services.**
  - (a) Schlumberger represents and warrants that all services shall be performed in a good and workmanlike manner in accordance with good oilfield practices and that it shall exercise diligence to insure the correctness and safe transport of all log, test and other data. Schlumberger will give Customer the benefit of its best judgment based on its experience interpreting information and making written or oral recommendations concerning logs or tests or other data, type or amount of material or service required, manner of performance or predicting results. Nevertheless, all such recommendations or predictions are opinions only and in view of the impracticability of obtaining first-hand knowledge of the many variable conditions, the reliance on inferences, measurements and assumptions which are not infallible, and/or the necessity of relying on facts and supporting services furnished by others, **NO WARRANTY IS GIVEN CONCERNING THE ACCURACY OR COMPLETENESS OF LOG, TEST OR OTHER DATA, THE EFFECTIVENESS OF MATERIAL USED, RECOMMENDATIONS GIVEN, OR RESULTS OF THE SERVICES RENDERED. SCHLUMBERGER WILL NOT BE RESPONSIBLE FOR ACCIDENTAL OR INTENTIONAL INTERCEPTION OF OR TAMPERING WITH DATA BY OTHERS, NOR DOES SCHLUMBERGER GUARANTEE THE SAFE STORAGE OR THE LENGTH OF TIME OF STORAGE OF ANY DIGITAL TAPES, OPTICAL LOGS OR PRINTS, OR OTHER SIMILAR PRODUCTS OR MATERIALS.**
  - (b) Schlumberger warrants that products (including but not limited to tools, supplies and materials) furnished shall conform to the quality and specifications represented. Schlumberger warrants all its products to be free of defects in material and workmanship for a period of twelve (12) months from the date of installation or eighteen (18) months from the date of shipment, whichever occurs first.  
The above warranty does not apply to:
    - (i) products that have been modified and/or subjected to improper handling, storage, installation, operation or maintenance or to any product normally consumed in operation;
    - (ii) any item which is purchased by Schlumberger or furnished by Customer as a component part of a product, or not manufactured by Schlumberger and purchased for Customer except to the extent to which such items are covered by the warranty, if any, of the original manufacturer thereof;
    - (iii) the design on those jobs where Schlumberger prepares shop drawings, tracing drawings or lists from designs furnished by others;
    - (iv) models or samples which are furnished to Customer as illustrations only of the general properties of Schlumberger's products and workmanship;
    - (v) damage to a product caused by abrasive materials, corrosion due to aggressive fluids, lightning, improper voltage supply, mishandling or misapplication.
  - (c) Schlumberger's liability under its warranty is expressly limited to the repair, replacement or the refund of an equitable portion of the purchase price, at its sole option, of products or services which prove to be defective within the warranty period. A Customer claim made pursuant to this warranty shall be made immediately upon discovery and confirmed in writing within thirty (30) days after discovery of the defect. Defective items must be held for inspection and returned to the original F.O.B. point upon request. Schlumberger shall have the right to inspect the products claimed to be defective and shall have the right

to determine the cause of such defect. Returned products shall become the property of Schlumberger.  
**THE FOREGOING WARRANTIES FOR SERVICES AND PRODUCTS ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESS, IMPLIED OR STATUTORY. IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY SHALL NOT APPLY. SCHLUMBERGER'S WARRANTY OBLIGATIONS AND CUSTOMER'S REMEDIES THEREUNDER (EXCEPT AS TO TITLE) ARE SOLELY AND EXCLUSIVELY AS STATED HEREIN.**

8. **INDEMNITIES**
  - (a) **Personnel**
    1. SCHLUMBERGER SHALL BE RESPONSIBLE FOR AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP AND ITS INSURERS AGAINST ALL CLAIMS ARISING OUT OF OR IN CONNECTION WITH PERSONAL INJURY, ILLNESS OR DEATH OF ANY MEMBER OF SCHLUMBERGER GROUP OR ITS SUBCONTRACTORS.
    2. CUSTOMER SHALL BE RESPONSIBLE FOR AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS SCHLUMBERGER GROUP AND ITS INSURERS AGAINST ALL CLAIMS ARISING OUT OF OR IN CONNECTION WITH PERSONAL INJURY, ILLNESS OR DEATH OF ANY MEMBER OF CUSTOMER GROUP OR ITS CONTRACTORS (OTHER THAN SCHLUMBERGER) AND SUBCONTRACTORS.
  - (b) **Property**  
 CUSTOMER ASSUMES ALL LIABILITY FOR, AND HEREBY AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD THE SCHLUMBERGER GROUP AND THEIR INSURERS HARMLESS FROM AND AGAINST ALL DAMAGE, LOSS, LIABILITY, CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER (INCLUDING ALL COSTS AND EXPENSES THEREOF AND REASONABLE ATTORNEY'S FEES) ARISING IN CONNECTION THEREWITH:
    1. ON ACCOUNT OF LOSS OF AND/OR DAMAGE TO THE CUSTOMER GROUP OR ITS CONTRACTORS' (OTHER THAN SCHLUMBERGER) OR SUBCONTRACTORS' PROPERTY;
    2. ON ACCOUNT OF LOSS OF OR DAMAGE TO SCHLUMBERGER PROPERTY, EQUIPMENT, MATERIALS OR PRODUCTS, INCLUDING BUT NOT LIMITED TO, RECOVERY, REPAIR AND REPLACEMENT EXPENSES, WHEN SUCH LOSS OR DAMAGE OCCURS: (i) IN THE HOLE, (ii) WHILE IN TRANSIT OR BEING MOVED ON ANY FORM OF TRANSPORTATION OWNED OR FURNISHED BY CUSTOMER, (iii) WHILE LOCATED AT THE WELL SITE WHEN SCHLUMBERGER PERSONNEL ARE NOT PRESENT, (iv) AS A RESULT OF IMPROPERLY MAINTAINED, PRIVATE ACCESS ROADS TO THE WELLSITE, OR (v) WHILE BEING USED BY OR WHILE UNDER THE CUSTODY OR CONTROL OF ANY PERSON OTHER THAN A SCHLUMBERGER EMPLOYEE, WHETHER IN AN EMERGENCY OR OTHERWISE. THE PROPERTY, EQUIPMENT, MATERIALS AND PRODUCTS WILL BE VALUED AT THEIR RESPECTIVE LANDED REPLACEMENT COST. WITH RESPECT TO (i) ABOVE, RENTAL CHARGES ON THE EQUIPMENT LOST OR DAMAGED IN THE HOLE SHALL CONTINUE TO BE PAID UP TO AND INCLUDING THE DATE ON WHICH SCHLUMBERGER RECEIVES NOTICE IN WRITING OF THE LOSS OR DAMAGE.
  - (c) **Application of Indemnities.** THE ASSUMPTION OF LIABILITY AND INDEMNITIES IN (a) AND (b) ABOVE SHALL APPLY TO ANY LOSS, DAMAGE, EXPENSE, INJURY, ILLNESS OR DEATH WITHOUT REGARD TO THE CAUSE(S) THEREOF INCLUDING, WITHOUT LIMITATION, UNSEAWORTHINESS, STRICT LIABILITY, ULTRAHAZARDOUS ACTIVITY, BREACH OF EXPRESS OR IMPLIED WARRANTY, IMPERFECTION OF MATERIAL, DEFECT OR FAILURE OF EQUIPMENT, DEFECT OR "RUIN" OR OTHER CONDITION OF PREMISES, INCLUDING ANY CONDITIONS THAT PRE-EXIST THE EXECUTION OF THIS AGREEMENT, OR THE SOLE OR CONCURRENT, ACTIVE OR PASSIVE, NEGLIGENCE OR OTHER FAULT OF THE INDEMNITEE OR ITS CONTRACTORS OR SUBCONTRACTORS OR ITS OR THEIR EMPLOYEES, AGENTS OR INVITEES.
  - (d) **Special Indemnity.** NOTWITHSTANDING ANYTHING TO THE CONTRARY HEREIN, CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY, AND HOLD SCHLUMBERGER GROUP AND THEIR INSURERS HARMLESS FROM AND AGAINST ALL LOSS, LIABILITY, CLAIMS, DEMANDS AND CAUSES OF ACTION (INCLUDING ALL COSTS, EXPENSES AND ATTORNEY'S FEES) OF EVERY KIND AND CHARACTER, WITHOUT REGARD TO THE CAUSE OR CAUSES THEREOF, THE UNSEAWORTHINESS OF ANY VESSEL, STRICT LIABILITY OR THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE OF ANY PARTY (INCLUDING THE GROSS NEGLIGENCE OF SCHLUMBERGER GROUP), ARISING IN CONNECTION HERewith IN FAVOR OF CUSTOMER GROUP OR ITS CONTRACTORS OR SUBCONTRACTORS, SCHLUMBERGER GROUP AND ITS SUBCONTRACTORS OR ANY THIRD PARTY FOR: (i) PROPERTY DAMAGE, PERSONAL INJURY OR DEATH OR LOSS THAT RESULTS FROM BLOW-OUT, CRATERING, WILD WELL OR WORK PERFORMED TO CONTROL A WILD WELL; (ii) PROPERTY DAMAGE OR LOSS THAT RESULTS FROM POLLUTION, CONTAMINATION, OR RADIATION DAMAGE, WHETHER CAUSED BY CUSTOMER'S FAILURE TO PROPERLY HANDLE, TRANSPORT OR DISPOSE OF ANY CHEMICALS AS REQUIRED BY PARAGRAPH 6.(b) HEREOF OR OTHERWISE, INCLUDING CONTAINMENT, CLEAN-UP AND REMEDIATION OF THE POLLUTANT AND CONTAMINATION, WHETHER OR NOT REQUIRED BY AN APPLICABLE FEDERAL, STATE OR LOCAL LAW OR REGULATION; (iii) PROPERTY DAMAGE OR LOSS THAT RESULTS FROM RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES, OR WATER OR THE WELL BORE ITSELF, SURFACE DAMAGE ARISING FROM SUBSURFACE OR SUBSEA DAMAGE; (iv) COST TO CONTROL A WILD WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING ANY REDRILLING OR REWORKING AND RELATED CLEAN UP COSTS; (v) DAMAGE TO PROPERTY OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER, AND/OR WELL OWNER, IF DIFFERENT FROM CUSTOMER (THE TERM "WELL OWNER" SHALL INCLUDE WORKING AND ROYALTY INTEREST OWNERS OR THE OWNER OF ANY DRILLING RIG, PLATFORM OR OTHER STRUCTURE AT THE WELL SITE); OR (vi) SUBSURFACE TRESPASS.
  - (e) **Anti-Indemnity and Insurance Savings Clause.** If any defense, indemnity or insurance provision contained in this Contract conflicts with, is prohibited by or violates public policy under any federal, state or other law determined to be applicable to a particular situation arising from or involving any services, equipment and/or products hereunder, it is understood and agreed that the conflicting, prohibited, or violating provision shall be deemed automatically amended in that situation to the extent, but only to the extent, necessary to conform with, not be prohibited by and avoid violating public policy under such applicable law.
9. **Incidental or Consequential Damages.** IT IS EXPRESSLY AGREED THAT THE SCHLUMBERGER GROUP SHALL NOT BE LIABLE TO THE CUSTOMER GROUP FOR ANY PUNITIVE, INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, ANY LOSS OF PROFITS OR BUSINESS INTERRUPTION OR LOSS OF USE, LOSS OF PRODUCTION OR LOSS OF RIG TIME.
10. **Insurance.** Each party, as indemnitor, shall support the indemnity obligations it assumes under Paragraph 8, by obtaining at its own cost, adequate insurance for the benefit of the other party as indemnitee, with contractual indemnity endorsements. To the extent each party assumes liability, such insurance shall waive subrogation against and name the indemnitee and its Group as additional insured(s) and loss payee, and to the same extent such coverage shall be primary to that carried by the indemnified Group. Customer shall not self-insure without the written consent of Schlumberger.
11. **Limitation of Liability.** Schlumberger's liability, however arising from or in connection with this Contract (whether for breach of contract, negligence, misrepresentation, or otherwise), shall not in any circumstances exceed the full value of the consideration then owed to Schlumberger under this Contract.
12. **Miscellaneous.** Schlumberger shall not be liable for any delay or non-performance due to governmental regulation, labor disputes, hostile action, weather, fire, acts of God or any other causes beyond the reasonable control of Schlumberger. This Contract shall be governed by the laws of the state where the services are performed or equipment or products are furnished, except if furnished offshore or on navigable water, Federal Maritime Laws will govern. Should any clause, sentence, or part of these General Terms and Conditions be held invalid, such holding shall not invalidate the remainder, and the Terms and Conditions shall be interpreted as if the invalid clause, sentence, or part has been modified or omitted, if necessary, as required to conform to the jurisdiction purporting to limit such provision.

**NO FIELD EMPLOYEE OF SCHLUMBERGER IS AUTHORIZED OR EMPOWERED TO ALTER THESE GENERAL TERMS AND CONDITIONS.**



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**Schlumberger**

Date	7/3/2004
Company	OXY USA, INC.
Job Number	2205546229
Well Name	STUBBS 'A' 4
Well Number	A 4
County	GRANT
State	KANSAS

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	3103.82	0
Shoe Length	42.98	
Insert Depth	3060.84	
Hole Size	7 7/8	
Hole Depth	3105	
Prod. To Surf.	2355	
Pipe Volume	49	
Annular Volume	96	
Total Cement	165	
Total Water	165	

CLASS C + ADDS		
200	sacks	D79 D46 D29
2.61	yield	
12	weight	
15.2	water	72.2
	cubic ft.	522
	height	2291
	bbls	93

145

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

50:50 POZ H		
260	sacks	D46 D42 D53
1.55	yield	D112 M117 D132 D20
13.8	weight	D65
7.1	water	44
	cubic ft.	403
	height	1769
	bbls	71.8

Casing lift 2049  
Cement lift 971

3rd System		
25	sacks	
2.61	yield	
12	weight	
15.2	water	9
	cubic ft.	65.3
	height	286
	bbls	11.6

Test 4000	
0	MUD
20	Spacer
93	Lead <b>12</b>
72	Tail <b>13.8</b>
48.7	Displacement
1500 Maximum Pressure	
Pump time @ 4 BPM	53 MIN

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

Comments:

**Fluid Systems:**

DISPLACE			
2/1000 L64 & 1 LB B69			
Density:	lb/gal	Thickening Time:	
Yield:	ft <sup>3</sup> /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
L064	4 gal	4	
B069	1 lbs	1	

LEAD			
225 SKS CLASS C+3%D79+0.2%D46+0.25 PPS D29 (200 SKS LEAD/25 SKS RAT/MOUSE)			
Density:	12 lb/gal	Thickening Time:	
Yield:	2.61 ft <sup>3</sup> /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	
CLASS C	94 lbs/sk	21150	
D029	0.25 lbs/sk	56.25	
D046	0.188 lbs/sk	42.3	

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 ft <sup>3</sup> /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	
D065	0.216 lbs/sk	56.16	
CLASS H	47 lbs/sk	12220	
POZ	39.5 lbs/sk	10270	
D020	1.73 lbs/sk	449.8	
D112	0.216 lbs/sk	56.16	
M117	2.595 lbs/sk	674.7	
D046	0.216 lbs/sk	56.16	
D042	5 lbs/sk	1300	
D053	5 lbs/sk	1300	

WASH			
20 BBLs CW100			
Density:	lb/gal	Thickening Time:	
Yield:	ft <sup>3</sup> /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D122A	10 gal	10	
J237A	5 gal	5	

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Customer <b>OXY USA, INC.</b>						Job Number <b>2205546228</b>					
Well <b>STUBBS 'A' 4</b>			Location (legal) <b>KCC</b>			Schlumberger Location <b>Perryton, TX</b>			Job Start <b>2004-Jun-30</b>		
Field		Formation Name/Type <b>OCT 2 2</b>		Deviation <b>2004</b>		BH Size <b>12.3 in</b>		Well MD <b>750 ft</b>		Well TVD <b>750 ft</b>	
County <b>GRANT</b>		State/Province <b>KANSAS</b>		BHP <b>CONFIDENTIAL</b>		BHST <b>100 °F</b>		BHCT <b>°F</b>		Pore Press. Gradient <b>psi/ft</b>	
Well Master: <b>0630596884</b>		API / UWI:		Casing/Liner							
Rig Name <b>MURFIN 20</b>		Drilled For <b>Oil &amp; Gas</b>		Service Via		Depth, ft <b>748.91</b>		Size, in <b>8.63</b>		Weight, lb/ft <b>24</b>	
Offshore Zone		Well Class <b>New</b>		Well Type <b>Development</b>		Grade		Thread			
Drilling Fluid Type		Max. Density <b>lb/gal</b>		Plastic Vt: cp		Depth,		Size, in		Weight, lb/ft	
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>				Tubing/Drill Pipe		Grade		Thread	
Max. Allowed Tubing Pressure <b>1000 psi</b>		Max. Allowed Ann. Pressure <b>psi</b>		Wellhead Connection <b>8 5/8 HS&amp;M</b>		Top, ft		Bottom, ft		spf	
Service Instructions <b>CEMENT 8 5/8 CASING WITH: 280 SKS 35/65 POZ/C+6%D20+2%S1+0.25 PPS D29 150 SKS CLASS C + 2% S1 + 0.25 PPS D29</b>						No. of Shots		Total Interval <b>ft</b>		Diameter <b>in</b>	
						Treat Down <b>Casing</b>		Displacement <b>44.9 bbl</b>		Packer Type	
						Tubing Vol. <b>bbl</b>		Casing Vol. <b>48 bbl</b>		Annular Vol. <b>55 bbl</b>	
								Packer Depth <b>ft</b>		OpenHole Vol <b>103 bbl</b>	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure: <b>250 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type:		Squeeze Type			
No. Centralizers:		Top Plugs: <b>1</b>		Bottom Plugs:		Shoe Depth: <b>748.91 ft</b>		Tool Type:			
Cement Head Type: <b>Single</b>						Stage Tool Type:		Tool Depth: <b>ft</b>			
Job Scheduled For:		Arrived on Location: <b>2004-Jun-30 2:15</b>		Leave Location: <b>2004-Jun-30 6:03</b>		Stage Tool Depth: <b>ft</b>		Tail Pipe Size: <b>in</b>			
						Collar Type:		Tail Pipe Depth: <b>ft</b>			
						Collar Depth: <b>705.6 ft</b>		Sqz Total Vol: <b>bbl</b>			
Date	Time	Treating Pressure 24 hr clock psi	Density lb/gal	Pump Rate bbl/min	Pump Vol bbl	SK FLOWMETER bbl/min	0	0	Message		
2004-Jun-30	4:15	0	8.49	0.0	0.0	0.0	0	0			
2004-Jun-30	4:15	0	8.49	0.0	0.0	0.0	0	0			
2004-Jun-30	4:15								Start Job		
2004-Jun-30	4:15	0	8.48	0.0	0.0	0.0	0	0			
2004-Jun-30	4:16	2815	8.49	0.0	0.1	0.0	0	0			
2004-Jun-30	4:16	4889	8.49	0.0	0.1	0.0	0	0			
2004-Jun-30	4:17								Pressure Test Lines		
2004-Jun-30	4:17	5	8.48	0.0	0.1	0.0	0	0			
2004-Jun-30	4:17	0	8.48	0.0	0.1	0.0	0	0			
2004-Jun-30	4:17	5	8.48	0.0	0.1	0.0	0	0			
2004-Jun-30	4:18	5	8.48	0.0	0.3	0.0	0	0			
2004-Jun-30	4:18	78	8.48	3.2	1.2	0.0	0	0			
2004-Jun-30	4:18								Start Pumping Spacer		
2004-Jun-30	4:18	78	8.47	3.2	1.5	0.0	0	0			
2004-Jun-30	4:18								Reset Total, Vol = 1.73 bbl		
2004-Jun-30	4:18	73	8.47	3.2	1.7	0.0	0	0			
2004-Jun-30	4:19	156	8.40	5.8	1.4	0.0	0	0			
2004-Jun-30	4:19	146	8.43	5.8	4.3	0.0	0	0			
2004-Jun-30	4:20	151	8.44	5.8	7.2	0.0	0	0			
2004-Jun-30	4:20	146	8.46	5.7	10.1	0.0	0	0			
2004-Jun-30	4:21	142	8.45	5.8	12.5	0.0	0	0			
2004-Jun-30	4:21								End Spacer		

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4				04182-Jun-30		OXY USA, INC.		2205546228	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbf/min	bbl	bbl/min	0	0	
2004-Jun-30	4:21	142	8.45	5.7	12.7	0.0	0	0	
2004-Jun-30	4:21								Reset Total, Vol = 12.73 bbl
2004-Jun-30	4:21	142	8.44	5.7	0.2	0.0	0	0	
2004-Jun-30	4:21	151	9.57	5.7	1.3	0.0	0	0	
2004-Jun-30	4:21								Start Mixing Lead Slurry
2004-Jun-30	4:21	151	9.84	5.7	1.5	0.0	0	0	
2004-Jun-30	4:21								Reset Total, Vol = 1.53 bbl
2004-Jun-30	4:21	188	11.50	5.6	1.5	0.0	0	0	
2004-Jun-30	4:22	206	12.09	5.6	4.4	0.0	0	0	
2004-Jun-30	4:22	215	12.47	5.6	7.3	0.0	0	0	
2004-Jun-30	4:23	197	12.51	5.6	10.1	0.0	0	0	
2004-Jun-30	4:23	197	12.17	5.7	12.9	0.0	0	0	
2004-Jun-30	4:24	179	11.98	5.7	15.7	0.0	0	0	
2004-Jun-30	4:24	179	12.23	5.7	18.6	0.0	0	0	
2004-Jun-30	4:25	179	12.32	5.7	21.4	0.0	0	0	
2004-Jun-30	4:25	169	12.34	5.6	24.2	0.0	0	0	
2004-Jun-30	4:26	169	12.36	5.7	27.1	0.0	0	0	
2004-Jun-30	4:26	169	12.37	5.7	29.9	0.0	0	0	
2004-Jun-30	4:27	169	12.35	5.7	32.7	0.0	0	0	
2004-Jun-30	4:27	169	12.33	5.7	35.6	0.0	0	0	
2004-Jun-30	4:28	165	12.34	5.6	38.4	0.0	0	0	
2004-Jun-30	4:28	160	12.29	5.6	41.3	0.0	0	0	
2004-Jun-30	4:29	146	11.89	5.7	44.1	0.0	0	0	
2004-Jun-30	4:29	160	12.18	5.7	46.9	0.0	0	0	
2004-Jun-30	4:30	156	12.29	5.7	49.8	0.0	0	0	
2004-Jun-30	4:30	156	12.25	5.7	52.6	0.0	0	0	
2004-Jun-30	4:31	156	12.21	5.7	55.5	0.0	0	0	
2004-Jun-30	4:31	156	12.57	5.7	58.3	0.0	0	0	
2004-Jun-30	4:32	169	12.50	5.7	61.1	0.0	0	0	
2004-Jun-30	4:32	156	12.27	5.7	64.0	0.0	0	0	
2004-Jun-30	4:33	156	12.23	5.7	66.8	0.0	0	0	
2004-Jun-30	4:33	151	12.23	5.7	69.8	0.0	0	0	
2004-Jun-30	4:34	156	12.37	5.7	72.6	0.0	0	0	
2004-Jun-30	4:34	146	12.20	5.7	75.4	0.0	0	0	
2004-Jun-30	4:35	142	12.25	5.7	78.3	0.0	0	0	
2004-Jun-30	4:35	142	12.24	5.7	81.1	0.0	0	0	
2004-Jun-30	4:36	133	11.92	5.7	84.0	0.0	0	0	
2004-Jun-30	4:36	133	11.63	5.7	84.5	0.0	0	0	
2004-Jun-30	4:36								End Lead Slurry
2004-Jun-30	4:36	133	11.55	5.7	84.7	0.0	0	0	
2004-Jun-30	4:36								Reset Total, Vol = 84.74 bbl
2004-Jun-30	4:36	133	11.51	5.7	0.1	0.0	0	0	
2004-Jun-30	4:36								Start Mixing Tail Slurry
2004-Jun-30	4:36	124	11.80	5.8	2.1	0.0	0	0	
2004-Jun-30	4:37	151	12.83	5.7	5.0	0.0	0	0	
2004-Jun-30	4:37	174	13.49	5.7	7.8	0.0	0	0	
2004-Jun-30	4:38	183	13.96	5.6	10.6	0.0	0	0	
2004-Jun-30	4:38	206	14.40	5.6	13.4	0.0	0	0	
2004-Jun-30	4:39	211	14.50	5.6	16.2	0.0	0	0	
2004-Jun-30	4:39	119	14.78	3.9	18.3	0.0	0	0	
2004-Jun-30	4:40	133	15.23	3.9	20.2	0.0	0	0	
2004-Jun-30	4:40	124	15.01	3.9	22.2	0.0	0	0	
2004-Jun-30	4:41	124	15.10	3.9	24.1	0.0	0	0	
2004-Jun-30	4:41	133	14.97	3.9	26.1	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number	
STUBBS 'A' #4				04182-Jun-30		OXY USA, INC.		2205546228	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0	
2004-Jun-30	4:42	124	14.97	3.9	28.1	0.0	0	0	
2004-Jun-30	4:42	128	14.94	3.9	30.0	0.0	0	0	
2004-Jun-30	4:43	124	15.11	3.9	32.0	0.0	0	0	
2004-Jun-30	4:43	128	15.14	3.9	34.0	0.0	0	0	
2004-Jun-30	4:44	119	15.11	3.9	35.9	0.0	0	0	
2004-Jun-30	4:44	110	15.04	3.9	37.9	0.0	0	0	
2004-Jun-30	4:45	114	15.09	3.9	39.8	0.0	0	0	
2004-Jun-30	4:45								End Tail Slurry
2004-Jun-30	4:45	101	14.54	3.9	41.3	0.0	0	0	
2004-Jun-30	4:45								Reset Total, Vol = 41.34 bbl
2004-Jun-30	4:45	101	14.53	3.9	41.3	0.0	0	0	
2004-Jun-30	4:45	101	14.55	4.0	0.5	0.0	0	0	
2004-Jun-30	4:46	9	0.56	0.0	2.3	0.0	0	0	
2004-Jun-30	4:46	0	11.91	0.0	2.3	0.0	0	0	
2004-Jun-30	4:47	27	11.08	0.0	2.3	0.0	0	0	
2004-Jun-30	4:47	5	10.79	0.0	2.3	0.0	0	0	
2004-Jun-30	4:47	-5	9.63	0.0	2.3	0.0	0	0	
2004-Jun-30	4:47								Drop Top Plug
2004-Jun-30	4:48	5	7.47	2.3	2.4	0.0	0	0	
2004-Jun-30	4:48								Start Displacement
2004-Jun-30	4:48	5	9.24	2.5	2.5	0.0	0	0	
2004-Jun-30	4:48								Reset Total, Vol = 2.45 bbl
2004-Jun-30	4:48	32	9.40	2.5	0.3	0.0	0	0	
2004-Jun-30	4:48	18	8.66	4.0	1.9	0.0	0	0	
2004-Jun-30	4:49	0	8.53	4.0	3.9	0.0	0	0	
2004-Jun-30	4:49	5	8.47	4.0	5.9	0.0	0	0	
2004-Jun-30	4:50	9	8.47	4.0	7.9	0.0	0	0	
2004-Jun-30	4:50	55	8.45	5.8	10.1	0.0	0	0	
2004-Jun-30	4:51	64	8.41	5.8	13.0	0.0	0	0	
2004-Jun-30	4:51	101	8.42	5.8	15.9	0.0	0	0	
2004-Jun-30	4:52	119	8.41	5.8	18.8	0.0	0	0	
2004-Jun-30	4:52	146	8.44	5.9	21.7	0.0	0	0	
2004-Jun-30	4:53	110	8.47	4.1	24.5	0.0	0	0	
2004-Jun-30	4:53	101	8.47	4.1	26.5	0.0	0	0	
2004-Jun-30	4:54	119	8.48	4.1	28.6	0.0	0	0	
2004-Jun-30	4:54	142	8.48	4.1	30.6	0.0	0	0	
2004-Jun-30	4:55	160	8.48	4.1	32.7	0.0	0	0	
2004-Jun-30	4:55	174	8.48	4.1	34.7	0.0	0	0	
2004-Jun-30	4:56	156	8.48	2.6	36.5	0.0	0	0	
2004-Jun-30	4:56	229	8.48	2.1	37.7	0.0	0	0	
2004-Jun-30	4:57	133	8.48	2.1	38.8	0.0	0	0	
2004-Jun-30	4:57	174	8.48	2.1	39.8	0.0	0	0	
2004-Jun-30	4:58	169	8.48	2.0	40.8	0.0	0	0	
2004-Jun-30	4:58	211	8.48	2.0	41.8	0.0	0	0	
2004-Jun-30	4:59	197	8.48	2.0	42.8	0.0	0	0	
2004-Jun-30	4:59	206	8.48	2.0	43.8	0.0	0	0	
2004-Jun-30	5:00	201	8.48	2.0	44.8	0.0	0	0	
2004-Jun-30	5:00	604	8.48	0.0	45.6	0.0	0	0	
2004-Jun-30	5:00								Bump Top Plug
2004-Jun-30	5:00	600	8.49	0.0	45.6	0.0	0	0	
2004-Jun-30	5:00								End Displacement
2004-Jun-30	5:00	600	8.49	0.0	45.6	0.0	0	0	
2004-Jun-30	5:01	600	8.49	0.0	45.6	0.0	0	0	
2004-Jun-30	5:01	600	8.49	0.0	45.6	0.0	0	0	

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Well		Field		Service Date		Customer		Job Number		
STUBBS 'A' #4				04182-Jun-30		OXY USA, INC.		2205546228		
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	0	0		
2004-Jun-30	5:02	600	8.49	0.0	45.6	0.0	0	0		
2004-Jun-30	5:02								Reset Total, Vol = 45.55 bbl	
2004-Jun-30	5:02	197	8.49	0.0	0.0	0.0	0	0		
2004-Jun-30	5:02	-14	8.49	0.0	0.0	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			5.7		121	0	10			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density			
700		150	700		bbl		8.34 lb/gal			
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/>	Cement Circulated to Surface?	Volume	36 bbl		
%	121 bbl		44.9 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
Willimon, Wes			Landeros, Feliverto							

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Date	6/30/2004
Company	OXY USA, INC.
Job Number	2205546228
Well Name	STUBBS A 4
Well Number	A 4
County	GRANT
State	KANSAS

# Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	748.91	0
Shoe Length	43.31	
Insert Depth	705.6	
Hole Size	12 1/4	
Hole Depth	750	

35/65 POZ C			
220	sacks	D20	D029
2.17	yield		S001
12.2	weight		
17.7	water	92.7	
	cubic ft.	477	
	height	1157	
	bbls	85	

103	Pipe Volume	48
	Annular Volume	55
	Total Cement	121
	Total Water	160

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

CLASS C			
150	sacks		
1.34	yield	S001	D029
14.8	weight		
6.3	water	23	
	cubic ft.	201	
	height	487	
	bbls	35.8	

Casing lift 308  
Cement lift 202

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

Test 3000

0 Mud

10 Spacer

85 Lead **12.2**

36 Tail **14.8**

44.9 Displacement

1500 Maximum Pressure

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

Pump time @ 5 BPM

33 MIN

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6717

# Schlumberger

## Service Order

2004-Jun-27

Customer OXY USA, INC.		Person Taking Call Ousley, John		Dowell Location Perryton, TX		OrderDate 2004-Jun-14	Job Number 2205546228	
Well Name and Number STUBBS 'A' 4			Legal Location		Field		County GRANT	State/Province KANSAS
Well Master: 0630596884			API / UWI:					
Rig Name MURFIN 20		Well Age New		Sales Engineer Cambren, Charles		Job Type Cem Surface Casing		
Time Well Ready:	Deviation	Bit Size 12.3 in	Well MD 800 ft	Well TVD 800 ft	BHP psi	BHST 100 °F	BHCT °F	
Treat Down Casing	Packer Type	Packer Depth ft	WellHead Connection 8 5/8 HS&M		HHP on Location	Max Allowed Pressure 1000	Max Allowed AnnPressure	
<b>Casing</b>					<b>Services Instructions:</b>			
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	CEMENT 8 5/8 CASING WITH: 220 SKS 35/65 POZ/C+6%D20+2%S1+0.25 PPS D29 150 SKS CLASS C + 2% S1 + 0.25 PPS D29			
800	8.63	24						
<b>Tubing</b>					<b>Extra Equipment:</b>			
Depth,	Size, in	Weight, lb/ft	Grade	Thread	1 PUMP 2 ABT 1 CEMCAT			
<b>Perforated Intervals</b>								
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft				
				Diameter in				
<b>Expected On Location:</b>					<b>Ready To Pump:</b>			

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Contact	Voice	Mobile	FAX	Notes
Greg Fillpot		1 620 353 8669		
MURFIN RIG 20		1 785 694 3635		
RODNEY-MURFIN 20		1 785 694 3669		

**Notes:**  
FLOAT EQUIPMENT= 1 (8 5/8) TOP WOODEN PLUG

**Directions:**  
FROM PERRYTON TX === NORTH ON HWY 83 TO SUBLETTE, KS.=== 6 NORTH TO HWY 160 (ULYSSES BLACKTOP) ===12 1/2 WEST ON HWY 160 TO CO RD === 1/4 NORTH === 1/4 EAST INTO

**Other Notes:**  
FOLLOW ALL CONVOY POLICIES AND BE SAFE!!!!  
WATCH OUT AT ALL TRAFFIC INTERSECTIONS!!!!



Comments:

Fluid Systems:

LEAD			
220 SKS 35/65 POZ/C+6%D20+2%S1+0.25PPS D29			
Density:	12.2 lb/gal	Thickening Time:	
Yield:	2.17 ft <sup>3</sup> /sk		
H2O Mix:	17.7 gal/sk		
H2O:	3894 gal	Eq. Sack Weight:	88.75 lb
		Total Blend:	220 sacks
Dowell Code	Conc/ Amount	Total Quantity	
CLASS C	61.1 lbs/sk	13442	
D132	27.65 lbs/sk	6083	
D020	5.325 lbs/sk	1171.5	
D029	0.25 lbs/sk	55	
S001	1.775 lbs/sk	390.5	

TAIL			
150 SKS CLASS C + 2%S1+0.25PPS D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.34 ft <sup>3</sup> /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	
CLASS C	94 lbs/sk	14100	
D029	0.25 lbs/sk	37.5	
S001	1.88 lbs/sk	282	