

CONFIDENTIAL

OCT 06 2004
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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

ORIGINAL

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: NA
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:
 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: _____
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. _____
06/14/04 06/22/04 06/24/04
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 067-21585-0000
County: RELEASED Grant
W/2 SW SE Sec 22 Twp. 27 S. R. 36W
625 feet from (S) N (circle one) Line of Section
629 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Harris A Well #: 1
Field Name: _____
Producing Formation: Well TA'd
Elevation: Ground: 3102 Kelly Bushing: 3113
Total Depth: 5720 Plug Back Total Depth: 3007
Amount of Surface Pipe Set and Cemented at 1912 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.
ALT 7 WITHIN 10-15-06

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 700 mg/l ppm Fluid volume 1600 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 October 6, 2004
Subscribed and sworn to before me this 6th day of October
20 04
Notary Public: Kathleen R. Poulton
Date Commission Expires: November 9, 2006

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

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 11-9-06

Customer OXY USA, INC.						Job Number 2205546227									
Well HARRIS 'A' 1			Location (legal) KCC			Schlumberger Location Perryton, TX			Job Start 2004-Jun-24						
Field		Formation Name/Type OCT 0 6 2004		Deviation		Bit Size 7.88 in		Well MD 5,720 ft		Well TVD 5,720 ft					
County GRANT		State/Province KANSAS		BHST psi		BHCT 137 °F		Pore Press. Gradient °F		psi/ft					
Well Master: 0630600703		API / UWI:		Casing/Liner											
Rig Name MURFIN 20		Drilled For Oil & Gas		Service Via		Depth, ft 3215	Size, in 10.5	Weight, lb/ft	Grade	Thread					
Offshore Zone		Well Class New		Well Type Development		RELEASED FROM RIG									
Drilling Fluid Type		Max. Density lb/gal		Plastic Vt: cp		Depth, ft	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 HS&M		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft					
Service Instructions CEMENT 5 1/2 PROD. CASING WITH: 20 BBL CW100 325 SKS 50/50 POZ CLASS H + ADDS. (300 SKS TAIL / 25 SKS RAT/MOUSE) DISPLACE WITH 1 lb. B69 & L064						Treat Down Casing	Displacement 47.8 bbl	Packer Type	Packer Depth ft						
						Tubing Vol. bbl	Casing Vol. 51 bbl	Annular Vol. 321 bbl	OpenHole Vol 372 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: 450 psi						Shoe Type:			Squeeze Type						
Pipe Rotated <input type="checkbox"/>						Pipe Reciprocated <input type="checkbox"/>			Shoe Depth: 3215 ft						
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 1		Stage Tool Type:			Tool Depth: ft						
Cement Head Type: Single						Stage Tool Depth: ft			Tail Pipe Size: in						
Job Scheduled For:		Arrived on Location: 2004-Jun-24 16:30		Leave Location: 2004-Jun-24 20:37		Collar Type:			Tail Pipe Depth: ft						
						Collar Depth: 3003 ft			Sqz Total Vol: bbl						
Date	Time	Treating Pressure psi	Density lb/gal	Pump Rate bbl/min	Pump Vol bbl	SK FLOWMETER bbl/min	0	0	Message						
2004-Jun-24	18:43	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:43								Start Job						
2004-Jun-24	18:43								Pressure Test Lines						
2004-Jun-24	18:43	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:43	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:44	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:44	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:45	-37	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:45	-32	8.22	1.2	0.0	0.0	0	0							
2004-Jun-24	18:46	4491	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:46	220	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:47	-23	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:47	-23	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:47								Start Pumping Spacer						
2004-Jun-24	18:47	-23	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:48	-23	8.22	0.0	0.4	0.0	0	0							
2004-Jun-24	18:48								Reset Total, Vol = 0.39 bbl						
2004-Jun-24	18:48	-23	8.22	0.0	0.0	0.0	0	0							
2004-Jun-24	18:48	201	8.22	3.4	1.0	0.0	0	0							
2004-Jun-24	18:49	215	8.22	5.4	3.4	0.0	0	0							
2004-Jun-24	18:49	224	8.22	5.4	6.1	0.0	0	0							
2004-Jun-24	18:50	206	8.22	5.4	8.9	0.0	0	0							

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Well		Field		Service Date		Customer		Job Number	
HARRIS 'A' #1				04176-Jun-24		OXY USA, INC.		2205546227	
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-24	18:50	206	8.22	5.4	11.6	0.0	0	0	
2004-Jun-24	18:51	188	8.22	5.4	14.3	0.0	0	0	
2004-Jun-24	18:51	211	8.22	5.4	17.0	0.0	0	0	
2004-Jun-24	18:52	-5	8.20	0.0	19.3	0.0	0	0	
2004-Jun-24	18:52								End Spacer
2004-Jun-24	18:52	-18	8.21	0.0	19.3	0.0	0	0	
2004-Jun-24	18:52	-18	8.21	0.0	19.3	0.0	0	0	
2004-Jun-24	18:52								Reset Total, Vol = 19.30 bbl
2004-Jun-24	18:52	-23	8.15	0.0	0.0	0.0	0	0	
2004-Jun-24	18:52								Start Mixing Scav Slurry
2004-Jun-24	18:53	-18	8.22	0.0	0.0	0.1	0	0	
2004-Jun-24	18:53	-27	8.59	0.0	0.0	4.3	0	0	
2004-Jun-24	18:54	23	11.02	0.0	0.0	2.0	0	0	
2004-Jun-24	18:54	64	13.76	0.0	0.0	2.6	0	0	
2004-Jun-24	18:55	60	13.97	0.0	0.0	2.1	0	0	
2004-Jun-24	18:55	105	14.01	0.0	0.0	2.5	0	0	
2004-Jun-24	18:56	-23	12.63	0.0	0.0	2.5	0	0	
2004-Jun-24	18:56	-27	14.27	0.0	0.0	3.9	0	0	
2004-Jun-24	18:57	-27	13.83	0.0	0.0	0.0	0	0	
2004-Jun-24	18:57	-27	13.87	0.0	0.0	0.0	0	0	
2004-Jun-24	18:58	-32	13.88	0.0	0.0	0.0	0	0	
2004-Jun-24	18:58	128	13.79	0.0	0.0	2.7	0	0	
2004-Jun-24	18:59	137	13.82	0.0	0.0	2.7	0	0	
2004-Jun-24	18:59	-5	13.38	0.0	0.0	0.0	0	0	
2004-Jun-24	19:00	-14	13.38	0.0	0.0	0.0	0	0	
2004-Jun-24	19:00	-23	13.33	0.0	0.0	0.0	0	0	
2004-Jun-24	19:01	-23	12.66	0.0	0.0	0.0	0	0	
2004-Jun-24	19:01	-18	11.83	0.0	0.0	0.0	0	0	
2004-Jun-24	19:02	37	9.91	0.0	0.0	0.0	0	0	
2004-Jun-24	19:02								Start Cement Slurry
2004-Jun-24	19:02								Reset Total, Vol = 0.00 bbl
2004-Jun-24	19:02	37	9.93	0.0	0.0	0.0	0	0	
2004-Jun-24	19:02	37	9.95	0.1	0.0	0.0	0	0	
2004-Jun-24	19:02	78	13.13	2.2	2.2	2.9	0	0	
2004-Jun-24	19:03	284	14.01	5.4	4.8	5.2	0	0	
2004-Jun-24	19:03	224	14.11	5.4	7.5	5.3	0	0	
2004-Jun-24	19:04	192	13.99	5.4	10.2	5.2	0	0	
2004-Jun-24	19:04	174	13.82	5.4	13.0	5.3	0	0	
2004-Jun-24	19:05	197	14.18	5.4	15.7	5.3	0	0	
2004-Jun-24	19:05	174	13.72	5.4	18.4	5.3	0	0	
2004-Jun-24	19:06	179	13.94	5.4	21.1	5.3	0	0	
2004-Jun-24	19:06	169	13.75	5.4	23.8	5.1	0	0	
2004-Jun-24	19:07	188	14.17	5.4	26.6	5.2	0	0	
2004-Jun-24	19:07	179	13.76	5.4	29.3	5.3	0	0	
2004-Jun-24	19:08	183	14.13	5.4	32.1	5.3	0	0	
2004-Jun-24	19:08	206	14.36	5.4	34.8	5.1	0	0	
2004-Jun-24	19:09	50	13.87	2.7	36.9	2.9	0	0	
2004-Jun-24	19:09	174	13.69	5.4	39.4	5.3	0	0	
2004-Jun-24	19:10	206	14.43	5.4	42.1	5.3	0	0	
2004-Jun-24	19:10	206	14.28	5.4	44.8	5.1	0	0	
2004-Jun-24	19:11	192	13.95	5.5	47.5	5.2	0	0	
2004-Jun-24	19:11	179	13.85	5.4	50.3	5.2	0	0	
2004-Jun-24	19:12	211	14.34	5.4	53.0	5.1	0	0	
2004-Jun-24	19:12	197	13.97	5.4	55.7	5.3	0	0	

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Well		Field		Service Date		Customer		Job Number	
HARRIS 'A' #1				04176-Jun-24		OXY USA, INC.		2205546227	
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-24	19:13	188	13.88	5.4	58.4	5.2	0	0	
2004-Jun-24	19:13	188	13.95	5.4	61.2	5.3	0	0	
2004-Jun-24	19:14	197	14.12	5.4	63.9	5.2	0	0	
2004-Jun-24	19:14	192	13.98	5.4	66.6	5.2	0	0	
2004-Jun-24	19:15	188	13.84	5.4	69.3	5.2	0	0	
2004-Jun-24	19:15	192	14.04	5.4	72.0	5.2	0	0	
2004-Jun-24	19:16	192	14.05	5.4	74.8	5.3	0	0	
2004-Jun-24	19:16	192	14.06	5.4	77.5	5.1	0	0	
2004-Jun-24	19:17	201	14.46	5.4	80.2	5.3	0	0	
2004-Jun-24	19:17	78	14.13	3.9	82.3	3.7	0	0	
2004-Jun-24	19:18								End Cement Slurry
2004-Jun-24	19:18	-9	14.18	1.3	83.9	1.7	0	0	
2004-Jun-24	19:18	-14	14.16	0.0	83.9	0.1	0	0	
2004-Jun-24	19:18								Reset Total, Vol = 83.94 bbl
2004-Jun-24	19:18								Drop Top Plug
2004-Jun-24	19:18	-18	14.14	0.0	0.0	0.0	0	0	
2004-Jun-24	19:18	-18	14.14	0.0	0.0	0.0	0	0	
2004-Jun-24	19:18								Start Displacement
2004-Jun-24	19:18	-27	14.09	0.0	0.0	0.1	0	0	
2004-Jun-24	19:19	-37	10.88	0.0	0.0	3.9	0	0	
2004-Jun-24	19:19	-37	9.03	0.0	0.0	0.0	0	0	
2004-Jun-24	19:20	-32	8.83	0.0	0.0	0.1	0	0	
2004-Jun-24	19:20	37	8.94	0.0	0.0	2.0	0	0	
2004-Jun-24	19:21	206	8.88	0.0	0.0	5.4	0	0	
2004-Jun-24	19:21	183	8.45	0.0	0.0	5.3	0	0	
2004-Jun-24	19:22	188	8.22	0.0	0.0	5.4	0	0	
2004-Jun-24	19:22	-18	8.36	0.0	0.0	0.0	0	0	
2004-Jun-24	19:23	-23	8.29	0.0	0.0	0.0	0	0	
2004-Jun-24	19:23	82	8.22	6.4	1.9	6.6	0	0	
2004-Jun-24	19:24	96	8.22	6.4	5.1	6.5	0	0	
2004-Jun-24	19:24	78	8.22	6.4	8.3	6.6	0	0	
2004-Jun-24	19:25	78	8.22	6.4	11.5	6.5	0	0	
2004-Jun-24	19:25	87	8.22	6.4	14.7	6.6	0	0	
2004-Jun-24	19:26	78	8.22	6.4	18.0	6.5	0	0	
2004-Jun-24	19:26	82	8.22	6.4	21.2	6.6	0	0	
2004-Jun-24	19:27	82	8.22	6.4	24.4	6.5	0	0	
2004-Jun-24	19:27	151	8.22	6.4	27.6	6.6	0	0	
2004-Jun-24	19:28	160	8.22	5.0	30.3	5.0	0	0	
2004-Jun-24	19:28	247	8.21	4.9	32.8	4.9	0	0	
2004-Jun-24	19:29	348	8.22	4.9	35.2	5.0	0	0	
2004-Jun-24	19:29	288	8.22	2.3	37.4	2.3	0	0	
2004-Jun-24	19:30	238	8.22	2.0	38.4	2.1	0	0	
2004-Jun-24	19:30	311	8.22	2.0	39.4	2.1	0	0	
2004-Jun-24	19:31	279	8.22	2.0	40.5	2.1	0	0	
2004-Jun-24	19:31	339	8.22	2.1	41.5	2.1	0	0	
2004-Jun-24	19:32	330	8.22	2.1	42.5	2.1	0	0	
2004-Jun-24	19:32	375	8.22	2.1	43.6	2.1	0	0	
2004-Jun-24	19:33	398	8.22	2.0	44.6	2.1	0	0	
2004-Jun-24	19:33	412	8.22	2.0	45.6	2.1	0	0	
2004-Jun-24	19:34	467	8.22	2.0	46.6	2.0	0	0	
2004-Jun-24	19:34	467	8.22	2.0	47.6	2.1	0	0	
2004-Jun-24	19:35	847	8.22	2.0	48.6	2.0	0	0	
2004-Jun-24	19:35	1016	8.22	0.0	48.7	0.0	0	0	
2004-Jun-24	19:35								Bump Top Plug

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Well		Field		Service Date		Customer		Job Number	
HARRIS 'A' #1				04176-Jun-24		OXY USA, INC.		2205546227	
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	0	0	Message
	24 hr clock	psi	lb/gal	bbbl/min	bbbl	bbbl/min	0	0	
2004-Jun-24	19:35	1016	8.22	0.0	48.7	0.0	0	0	
2004-Jun-24	19:35								End Displacement
2004-Jun-24	19:35	1012	8.22	0.0	48.7	0.0	0	0	
2004-Jun-24	19:35								Reset Total, Vol = 48.66 bbl
2004-Jun-24	19:35	1002	8.22	0.0	48.7	0.0	0	0	
2004-Jun-24	19:36	1007	8.22	0.0	0.0	0.0	0	0	
2004-Jun-24	19:36	-23	8.22	0.0	0.0	0.0	0	0	
2004-Jun-24	19:37	-23	8.22	0.0	0.0	0.0	0	0	
2004-Jun-24	19:37	-27	8.22	0.0	0.0	0.0	0	0	
2004-Jun-24	19:37								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			5.5	90	0	20			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
1000		250	1000		bbbl	8.43 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		<input type="checkbox"/> Cement Circulated to Surface?	Volume	bbbl		
%	90 bbl	47.8 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	
Fillpot, Greg			Landeros, Feliverto						

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Date	6/24/2004
Company	OXY USA, INC.
Job Number	2205546232
Well Name	HARRIS 'A' 1
Well Number	A' 1
County	GRANT
State	KANSAS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	10.5	10.5
Pipe Depth	3215.26	0
Shoe Length	211.96	
Insert Depth	3003.3	
Hole Size	7 7/8	
Hole Depth	5720	

50/50 POZ H	
25 sacks	D112 D46 M117
1.55 yield	D20 D65 D132 D42
13.8 weight	D53
7.1 water	4.23
cubic ft.	38.8
height	170
bbls	6.9

Pipe Volume	51
372 Annular Volume	321
Total Cement	90
Total Water	103

Pipe Factor	0.0159	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

50:50 POZ H	
300 sacks	D46 D42 D53
1.55 yield	D112 M117 D132 D20
13.8 weight	D65
7.1 water	51
cubic ft.	465
height	2041
bbls	82.8

Casing lift 2123
Cement lift 628

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

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

Test 5000	
0 MUD	
20 Spacer	
7 Lead	13.8
83 Tail	13.8
47.8 Displacement	
1500 Maximum Pressure	
Pump time @ 4 BPM	34 MIN

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Service Order

2004-Jun-23

Customer OXY USA, INC.		Person Taking Call Ousley, John		Dowell Location Perryton, TX		Order Date 2004-Jun-21		Job Number 2205546227			
Well Name and Number HARRIS 'A' 1			Legal Location		Field		County GRANT		State/Province KANSAS		
Well Master: 0630600703			API / UWI:								
Rig Name MURFIN 20			Well Age New		Sales Engineer Cambern, Charles			Job Type Cem Prod Casing			
Time Well Ready:		Deviation		Bit Size 7.88 in		Well MD 5,700 ft		Well TVD 5,700 ft		BHP psi	
										BHST 137 °F	
										BHCT °F	
Treat Down Casing		Packer Type		Packer Depth ft		WellHead Connection 4 1/2 HS&M		HHP on Location		Max Allowed Pressure 2000	
Casing						Services Instructions:					
Depth, ft		Size, in		Weight, lb/ft		Grade		CEMENT 5 1/2 PROD. CASING WITH: 20 BBL CW100 325 SKS 50/50 POZ CLASS H + ADDS. (300 SKS TAIL / 25 SKS RAT/MOUSE) DISPLACE WITH 1 lb. B69 & L064			
3000		4.5		10.5							
Tubing											
Depth,		Size, in		Weight, lb/ft		Grade		Extra Equipment:			
								1 PUMP 1 ABT 1 CEMCAT			
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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 KCC WICHITA

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

Notes:
 4 1/2 FE= 1 TOP PLUG & BOTTOM PLUG
 300 SKS TAIL FOR CSG, 25 SKS LEAD FOR RAT/MOUSE
 DISPLACE WITH L64 & 1 LB B69

Directions:
 FROM PERRYTON TX === NORTH ON HWY 83 TO SUBLETTE, KS.=== 14 MI NORTH TO
 HITCH FEEDER RD === 20 MI WEST ON HITCH FEEDER RD === 1/2 MI NORTH === WEST
 INTO

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

Comments:

Fluid Systems:

DISPLACE			
1 LB B69 & 2%KCL			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /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	

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

TAIL			
325 sx 50/50 Poz H + 2% D20 +5# D42 + 5# D53 + 0.25% D112 + 0.25% D65 + 3% M117 + 0.25% D46			
Density:	13.8 lb/gal	Thickening Time:	
Yield:	1.55 ft ³ /sk		
H2O Mix:	7.1 gal/sk		
H2O:	2307.5 gal	Eq. Sack Weight:	86.5 lb
		Total Blend:	325 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D112	0.216 lbs/sk	70.2	
M117	2.595 lbs/sk	843.375	
D20	1.73 lbs/sk	562.25	
D65	0.216 lbs/sk	70.2	
CLASS H	47 lbs/sk	15275	
D132	39.5 lbs/sk	12837.5	
D046	0.216 lbs/sk	70.2	
D42	5 lbs/sk	1625	
D53	5 lbs/sk	1625	

CONFIDENTIAL



Cementing Service Report

Customer OXY USA, INC.	Job Number 2205546224
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Well HARRIS 'A' 1	Location (legal) KCC	Schlumberger Location Perryton, TX	Job Start
Field	Formation Name/Type CCNFIDENTIAL	Deviation	Well TVD 1,912 ft
County GRANT	State/Province KANSAS	Bit Size 12.3 in	Well MD 1,912 ft
Well Master: 0630600703	API / UWI:	BHP psi	BHST °F
		BHCT °F	Pore Press. Gradient psi/ft

Rig Name	Drilled For Oil & Gas	Service Via	Depth 1914	Size, in 24	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	Casing/Liner RELEASED FROM CONFIDENTIAL					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 1000 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 CASING WITH: 575 535 SKS PANHANDLE LITE + 0.2% D46 + 0.5 PPS D29 150 SKS CLASS C + 2% S1 + 0.25 PPS D29			Diameter in		Packer Type		Packer Depth ft
			Treat Down Casing	Displacement 119 bbl	Annular Vol. 141 bbl		Open Hole Vol 263 bbl
			Tubing Vol. bbl	Casing Vol. 122 bbl	Annular Vol. 141 bbl		Open Hole Vol 263 bbl

Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Casing Tools	Squeeze Job
Lift Pressure: 500 psi	Pipe Rotated <input type="checkbox"/>	Shoe Type:	Squeeze Type:
No. Centralizers:	Top Plugs:	Bottom Plugs:	Shoe Depth: 1914 ft
Cement Head Type:	Stage Tool Type:	Tool Depth: ft	Tool Type:
Job Scheduled For:	Arrived on Location:	Leave Location:	Stage Tool Depth: ft
			Tail Pipe Size: in
			Tail Pipe Depth: ft
			Collar Depth: 1870 ft
			Sqz Total Vol: bbl

Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	SK FLOW STAGE	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	bbl	0	
2004-Jun-15	19:29							0	Start Job
2004-Jun-15	19:29	0	8.21	0.0	0.0	0.0	0.0	0	
2004-Jun-15	19:29	0	8.21	0.0	0.0	0.0	0.0	0	
2004-Jun-15	19:29							0	Pressure Test Lines
2004-Jun-15	19:30	0	8.21	0.0	0.0	0.0	0.0	0	
2004-Jun-15	19:30	1543	8.21	0.2	0.3	0.0	0.0	0	
2004-Jun-15	19:31	2600	8.21	0.0	0.3	0.0	0.1	0	
2004-Jun-15	19:31	5	8.21	0.0	0.3	0.1	0.1	0	
2004-Jun-15	19:32	5	8.21	0.0	0.3	0.0	0.1	0	
2004-Jun-15	19:32	5	8.21	0.0	0.3	0.0	0.1	0	
2004-Jun-15	19:32							0	Start Pumping Spacer
2004-Jun-15	19:32	5	8.21	0.0	0.3	0.0	0.1	0	
2004-Jun-15	19:32							0	Reset Total, Vol = 0.33 bbl
2004-Jun-15	19:32	50	8.20	3.2	0.2	3.0	0.2	0	
2004-Jun-15	19:33	119	8.17	5.7	2.8	5.8	2.8	0	
2004-Jun-15	19:33	156	8.18	6.4	6.0	6.5	6.0	0	
2004-Jun-15	19:34							0	End Spacer
2004-Jun-15	19:34	169	8.32	6.4	8.8	6.6	8.8	0	
2004-Jun-15	19:34							0	Reset Total, Vol = 9.10 bbl
2004-Jun-15	19:34	165	8.41	6.4	9.1	6.6	9.2	0	
2004-Jun-15	19:34	160	8.43	6.4	0.1	6.6	0.1	0	
2004-Jun-15	19:34	160	8.44	6.4	0.2	6.5	0.2	0	

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Well		Field			Service Date		Customer		Job Number
HARRIS 'A' #1							OXY USA, INC.		2205546224
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	SK FLOW STAGE	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	bbl	0	
2004-Jun-15	19:34								Start Mixing Lead Slurry
2004-Jun-15	19:34	188	9.61	6.4	3.3	6.6	3.4	0	
2004-Jun-15	19:35	211	10.98	6.4	6.5	6.5	6.6	0	
2004-Jun-15	19:35	247	12.17	6.4	9.7	6.3	9.8	0	
2004-Jun-15	19:36	252	12.27	6.4	12.9	6.3	13.0	0	
2004-Jun-15	19:36	229	12.11	6.4	16.1	6.4	16.2	0	
2004-Jun-15	19:37	220	11.85	6.4	19.3	6.3	19.4	0	
2004-Jun-15	19:37	211	11.92	6.4	22.5	6.3	22.5	0	
2004-Jun-15	19:38	224	12.66	6.4	25.7	6.3	25.8	0	
2004-Jun-15	19:38	211	12.28	6.4	28.9	6.0	28.9	0	
2004-Jun-15	19:39	197	12.02	6.4	32.2	6.2	32.2	0	
2004-Jun-15	19:39	197	12.16	6.4	35.4	6.1	35.3	0	
2004-Jun-15	19:40	179	12.19	6.4	38.6	6.1	38.5	0	
2004-Jun-15	19:40	183	12.14	6.4	41.8	6.1	41.6	0	
2004-Jun-15	19:41	174	12.16	6.4	45.0	6.3	44.7	0	
2004-Jun-15	19:41	188	12.14	6.4	48.2	6.2	47.9	0	
2004-Jun-15	19:42	192	12.17	6.4	51.4	6.3	51.0	0	
2004-Jun-15	19:42	169	11.92	6.4	54.6	6.3	54.1	0	
2004-Jun-15	19:43	179	12.53	6.4	57.8	6.4	57.3	0	
2004-Jun-15	19:43	160	12.10	6.4	61.0	6.3	60.4	0	
2004-Jun-15	19:44	192	12.37	6.4	64.2	6.2	63.6	0	
2004-Jun-15	19:44	211	12.09	6.4	67.4	6.1	66.7	0	
2004-Jun-15	19:45	151	11.85	6.4	70.6	6.3	69.8	0	
2004-Jun-15	19:45	165	12.59	6.4	73.8	6.3	72.9	0	
2004-Jun-15	19:46	151	12.42	6.4	77.0	5.9	76.0	0	
2004-Jun-15	19:46	41	11.61	3.1	79.8	3.1	78.7	0	
2004-Jun-15	19:47	82	11.66	4.6	81.5	4.3	80.2	0	
2004-Jun-15	19:47	174	11.24	6.4	84.2	6.0	82.8	0	
2004-Jun-15	19:48	238	13.01	6.4	87.4	6.2	85.9	0	
2004-Jun-15	19:48	156	12.27	6.4	90.6	6.4	89.0	0	
2004-Jun-15	19:49	233	12.46	6.4	93.8	6.2	92.1	0	
2004-Jun-15	19:49	156	12.05	6.4	97.0	6.1	95.1	0	
2004-Jun-15	19:50	151	12.27	6.4	100.2	6.2	98.2	0	
2004-Jun-15	19:50	224	12.54	6.4	103.5	6.4	101.4	0	
2004-Jun-15	19:51	174	11.70	6.4	106.7	6.2	104.5	0	
2004-Jun-15	19:51	142	12.24	6.4	109.9	6.1	107.6	0	
2004-Jun-15	19:52	188	12.54	6.4	113.1	6.2	110.7	0	
2004-Jun-15	19:52	156	12.02	6.4	116.3	6.3	113.8	0	
2004-Jun-15	19:53	197	12.05	6.4	119.5	6.2	116.8	0	
2004-Jun-15	19:53	179	12.19	6.4	122.7	6.2	119.9	0	
2004-Jun-15	19:54	151	12.21	6.4	125.9	6.1	122.9	0	
2004-Jun-15	19:54	142	12.21	6.4	129.1	6.1	126.0	0	
2004-Jun-15	19:55	160	12.23	6.4	132.3	6.2	129.0	0	
2004-Jun-15	19:55	197	12.23	6.4	135.5	6.2	132.0	0	
2004-Jun-15	19:56	160	11.77	6.4	138.7	5.9	135.1	0	
2004-Jun-15	19:56	137	12.10	6.4	141.9	6.2	138.1	0	
2004-Jun-15	19:57	133	12.02	6.4	145.1	6.1	141.1	0	
2004-Jun-15	19:57	238	12.57	6.4	148.3	6.1	144.2	0	
2004-Jun-15	19:58	192	12.05	6.4	151.5	6.5	147.3	0	
2004-Jun-15	19:58	69	12.39	4.6	154.5	4.2	150.1	0	
2004-Jun-15	19:59	165	12.94	6.4	157.6	6.1	153.1	0	
2004-Jun-15	19:59	60	12.21	4.6	160.6	4.0	155.9	0	
2004-Jun-15	20:00	137	12.01	4.6	162.4	3.7	157.5	0	
2004-Jun-15	20:00	183	12.23	6.4	165.4	5.9	160.2	0	

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Well		Field			Service Date		Customer		Job Number
HARRIS 'A' #1							OXY USA, INC.		2205546224
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	SK FLOW STAGE	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	bbl	0	
2004-Jun-15	20:01	156	12.24	5.7	168.4	5.8	163.0	0	
2004-Jun-15	20:01	160	12.29	5.7	171.2	5.7	165.9	0	
2004-Jun-15	20:02	160	12.35	5.7	174.2	5.6	168.8	0	
2004-Jun-15	20:02	160	12.34	5.7	177.0	5.5	171.7	0	
2004-Jun-15	20:03	165	12.38	5.7	179.9	5.6	174.5	0	
2004-Jun-15	20:03	151	12.05	5.7	182.8	5.7	177.4	0	
2004-Jun-15	20:04	151	12.04	5.7	185.6	5.6	180.2	0	
2004-Jun-15	20:04	142	11.97	5.7	188.5	5.9	183.1	0	
2004-Jun-15	20:05	179	12.86	5.7	191.3	5.7	186.0	0	
2004-Jun-15	20:05	169	12.25	5.7	194.2	5.8	188.8	0	
2004-Jun-15	20:06	165	12.63	5.7	197.1	5.7	191.7	0	
2004-Jun-15	20:06	169	12.72	5.7	199.9	5.7	194.6	0	
2004-Jun-15	20:07	165	12.37	5.7	202.8	6.2	197.4	0	
2004-Jun-15	20:07	142	11.69	5.7	205.6	6.0	200.3	0	
2004-Jun-15	20:08	174	12.90	5.7	208.5	5.7	203.2	0	
2004-Jun-15	20:08	174	12.30	5.7	211.4	5.7	206.0	0	
2004-Jun-15	20:09	160	12.30	5.7	214.2	5.9	208.9	0	
2004-Jun-15	20:09	165	12.47	5.7	217.1	5.7	211.8	0	
2004-Jun-15	20:10	160	12.21	5.7	219.9	5.9	214.7	0	
2004-Jun-15	20:10	101	11.84	5.7	222.8	5.7	217.5	0	
2004-Jun-15	20:11	165	12.59	5.7	225.6	5.8	220.4	0	
2004-Jun-15	20:11	174	12.63	5.7	228.5	5.7	223.2	0	
2004-Jun-15	20:12	160	11.83	5.7	231.4	5.6	226.1	0	
2004-Jun-15	20:12	165	12.36	5.7	234.2	5.3	228.9	0	
2004-Jun-15	20:13	160	11.98	5.7	237.1	5.6	231.8	0	
2004-Jun-15	20:13	174	12.49	5.7	240.0	5.7	234.7	0	
2004-Jun-15	20:14	174	12.41	5.7	242.9	6.0	237.5	0	
2004-Jun-15	20:14	165	12.14	5.7	245.7	5.5	240.4	0	
2004-Jun-15	20:15	188	12.72	5.7	248.6	5.7	243.2	0	
2004-Jun-15	20:15	179	12.27	5.7	251.5	5.6	246.0	0	
2004-Jun-15	20:16	188	12.66	5.7	254.3	5.6	248.9	0	
2004-Jun-15	20:16	128	12.39	3.9	257.1	4.7	251.7	0	
2004-Jun-15	20:17	114	12.10	3.9	259.1	3.9	253.6	0	
2004-Jun-15	20:17	60	11.94	2.5	259.3	2.5	253.8	0	
2004-Jun-15	20:17								End Lead Slurry
2004-Jun-15	20:17								Reset Total, Vol = 259.42 bbl
2004-Jun-15	20:17	60	11.89	2.5	259.4	2.4	253.9	0	
2004-Jun-15	20:17	60	12.03	2.5	0.1	2.4	0.1	0	
2004-Jun-15	20:17								Start Mixing Tail Slurry
2004-Jun-15	20:17	215	13.87	5.3	1.2	4.2	1.1	0	
2004-Jun-15	20:18	270	14.71	5.7	4.0	5.7	4.0	0	
2004-Jun-15	20:18	279	14.97	5.7	6.9	5.6	6.8	0	
2004-Jun-15	20:19	288	14.88	5.7	9.7	5.7	9.6	0	
2004-Jun-15	20:19	275	14.84	5.7	12.6	5.5	12.4	0	
2004-Jun-15	20:20	279	14.91	5.7	15.5	5.7	15.2	0	
2004-Jun-15	20:20	275	15.14	5.7	18.3	5.8	18.0	0	
2004-Jun-15	20:21	298	15.27	5.7	21.2	5.3	20.9	0	
2004-Jun-15	20:21	247	14.57	5.7	24.0	5.7	23.7	0	
2004-Jun-15	20:22	261	15.07	5.7	26.9	5.7	26.5	0	
2004-Jun-15	20:22	266	15.14	5.7	29.7	5.7	29.3	0	
2004-Jun-15	20:23	270	15.26	5.7	32.6	5.7	32.2	0	
2004-Jun-15	20:23	165	15.32	3.9	35.0	3.7	34.5	0	
2004-Jun-15	20:24	32	15.45	0.8	36.9	1.4	36.3	0	
2004-Jun-15	20:24								End Tail Slurry

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Well		Field			Service Date		Customer		Job Number
HARRIS 'A' #1							OXY USA, INC.		2205546224
Date	Time	Treating Pressure	Density	Pump Rate	Pump Vol	SK FLOWMETER	SK FLOW STAGE	0	Message
	24 hr clock	psi	lb/gal	bbl/min	bbl	bbl/min	bbl	0	
2004-Jun-15	20:24	27	15.39	0.0	36.9	0.0	36.4	0	
2004-Jun-15	20:24	37	15.38	0.0	36.9	0.2	36.4	0	
2004-Jun-15	20:24								Reset Total, Vol = 36.92 bbl
2004-Jun-15	20:24								Drop Top Plug
2004-Jun-15	20:24	37	15.38	0.0	0.0	0.2	0.0	0	
2004-Jun-15	20:24	32	15.39	0.0	0.0	0.0	0.0	0	
2004-Jun-15	20:24								Start Displacement
2004-Jun-15	20:24	23	13.55	0.0	0.0	3.0	0.3	0	
2004-Jun-15	20:25	18	11.25	0.0	0.0	0.0	0.4	0	
2004-Jun-15	20:25	18	10.38	0.0	0.0	0.0	0.5	0	
2004-Jun-15	20:26	41	10.45	1.8	0.0	0.9	0.5	0	
2004-Jun-15	20:26	206	9.90	7.2	1.8	6.6	2.0	0	
2004-Jun-15	20:27	137	8.27	7.9	5.7	7.5	5.8	0	
2004-Jun-15	20:27	156	8.14	7.8	9.7	7.6	9.6	0	
2004-Jun-15	20:28	174	8.17	7.8	13.6	8.0	13.5	0	
2004-Jun-15	20:28	183	8.19	7.9	17.5	8.0	17.5	0	
2004-Jun-15	20:29	183	8.20	7.9	21.4	7.9	21.4	0	
2004-Jun-15	20:29	206	8.21	7.9	25.4	7.9	25.5	0	
2004-Jun-15	20:30	220	8.20	7.8	29.3	7.9	29.4	0	
2004-Jun-15	20:30	233	8.21	7.8	33.2	0.5	33.1	0	
2004-Jun-15	20:31	252	8.22	7.8	37.1	0.1	33.2	0	
2004-Jun-15	20:31	256	8.36	7.9	41.1	0.2	33.3	0	
2004-Jun-15	20:32	215	8.22	6.5	45.0	7.3	35.4	0	
2004-Jun-15	20:32	238	8.21	6.6	48.3	0.1	37.8	0	
2004-Jun-15	20:33	233	8.20	6.6	51.6	0.2	50.0	0	
2004-Jun-15	20:33	279	8.20	6.6	54.9	6.8	51.1	0	
2004-Jun-15	20:34	275	8.21	6.6	56.9	6.7	54.5	0	
2004-Jun-15	20:34	288	8.21	6.7	60.2	6.6	60.2	0	
2004-Jun-15	20:35	302	8.21	6.6	63.5	6.6	63.5	0	
2004-Jun-15	20:35	325	8.21	6.6	66.8	6.5	66.9	0	
2004-Jun-15	20:36	325	8.20	6.6	70.1	6.6	70.2	0	
2004-Jun-15	20:36	343	8.20	6.6	73.4	6.7	73.5	0	
2004-Jun-15	20:37	352	8.21	6.6	76.8	6.6	76.9	0	
2004-Jun-15	20:37	380	8.21	6.6	80.1	6.6	80.2	0	
2004-Jun-15	20:38	394	8.21	6.7	83.4	6.5	83.5	0	
2004-Jun-15	20:38	430	8.21	6.6	86.7	6.5	86.7	0	
2004-Jun-15	20:39	371	8.21	4.6	89.4	4.4	89.4	0	
2004-Jun-15	20:39	412	8.21	4.6	91.7	4.6	91.7	0	
2004-Jun-15	20:40	412	8.21	4.6	94.0	4.6	94.0	0	
2004-Jun-15	20:40	426	8.21	4.6	96.3	4.6	96.3	0	
2004-Jun-15	20:41	453	8.21	4.6	98.6	4.6	98.6	0	
2004-Jun-15	20:41	449	8.22	4.6	100.9	4.5	100.9	0	
2004-Jun-15	20:42	490	8.21	4.6	103.2	4.6	103.2	0	
2004-Jun-15	20:42	494	8.21	3.9	105.4	4.0	105.4	0	
2004-Jun-15	20:43	504	8.21	3.9	107.3	3.9	107.4	0	
2004-Jun-15	20:43	508	8.21	3.9	109.3	3.9	109.4	0	
2004-Jun-15	20:44	513	8.21	3.9	111.2	3.9	111.3	0	
2004-Jun-15	20:44	462	8.21	2.3	112.7	2.3	112.8	0	
2004-Jun-15	20:45	522	8.21	2.3	113.9	2.5	114.0	0	
2004-Jun-15	20:45	540	8.21	2.3	115.1	2.4	115.2	0	
2004-Jun-15	20:46	494	8.21	2.3	116.3	2.4	116.3	0	
2004-Jun-15	20:46	545	8.21	2.3	117.4	2.3	117.5	0	
2004-Jun-15	20:47	508	8.21	2.3	118.6	2.4	118.7	0	
2004-Jun-15	20:47	536	8.21	2.3	119.8	2.3	119.9	0	

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Well HARRIS 'A' #1			Field			Service Date		Customer OXY USA, INC.		Job Number 2205546224									
Date	Time 24 hr clock	Treating Pressure psi	Density lb/gal	Pump Rate bbl/min	Pump Vol bbl	SK FLOWMETER bbl/min	SK FLOW STAGE bbl	0 0	Message										
2004-Jun-15	20:48	984	8.22	0.0	120.2	0.0	120.3	0											
2004-Jun-15	20:48	989	8.22	0.0	120.2	0.0	120.3	0											
2004-Jun-15	20:48								Bump Top Plug										
2004-Jun-15	20:48	984	8.22	0.0	120.2	0.0	120.3	0											
2004-Jun-15	20:48								End Displacement										
2004-Jun-15	20:48								Reset Total, Vol = 120.20 bbl										
2004-Jun-15	20:48	984	8.22	0.0	120.2	0.0	120.3	0											
2004-Jun-15	20:48	980	8.22	0.0	0.0	0.0	0.0	0											
2004-Jun-15	20:49	806	8.22	0.0	0.0	0.0	0.0	0											
2004-Jun-15	20:49	-9	8.22	0.0	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						8		303		0		10							
Treating Pressure Summary, psi						Breakdown Fluid													
Maximum		Final		Average		Bump Plug to		Breakdown		Volume		Density							
1000				500		1000						bbl		8.34 lb/gal					
Avg. N2 Percent		Designed Slurry Volume		Displacement		Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?		Volume		85 bbl							
%		303 bbl		119 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			
Fillpot, Greg				Landeros, Feliverto															

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Date	6/15/2004
Company	OXY
Job Number	2205546178
Well Name	HARRIS 'A' 1
Well Number	A' 1
County	GRANT
State	KANSAS

Schlumberger

Pipe Size	8 5/8	
Pipe Weight	24	24
Pipe Depth	1914	0
Shoe Length	43.27	
Insert Depth	1870.73	
Hole Size	12 1/4	
Hole Depth	1912	

CLASS C	
575 sacks	D20 S001 D029
2.61 yield	
12 weight	
15.2 water	208
cubic ft.	1501
height	3636
bbls	267

263	Pipe Volume	122
	Annular Volume	141
	Total Cement	303
	Total Water	349

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 786
Cement lift 421

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

Test 3000

0 Mud

10 Spacer

267 Lead 12

36 Tail 14.8

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

119.2 Displacement

1500 Maximum Pressure

Pump time @ 5 BPM 84 MIN