CONFIDENTIAL

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY – DESCRIPTION OF WELL & LEASE

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: Duke Energy
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling Co., Inc.
License: 5382
Wellsite Geologist: NA

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

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

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

06/14/04	06/17/04	06/28/04
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 189-22473-0000
County: Stevens
SE - SE - NW - NE Sec 24 Twp. 34 S. R 35W
4030 feet from (S) N *(circle one)* Line of Section
1450 feet from (E) W *(circle one)* Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Hudkins A Well #: 2
Field Name: Hugoton Chase
Producing Formation: Chase
Elevation: Ground: 2972 Kelly Bushing: 2978
Total Depth: 2928 Plug Back Total Depth: 2870
Amount of Surface Pipe Set and Cemented at 775 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.

Drilling Fluid Management Plan Alt I W/fm 4-29-07
(Data must be collected from the Reserve Pit)
Chloride content 2600 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 ☒ West
County: ____ Docket No.: ____

INSTRUCTIONS: An original an two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market – Room 2078, Wichita, Kansas 6702, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTINGTICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Vicki Carder
Title: Capital Project Date September 28, 2004
Subscribed and sworn to before me this 29th day of September
20 04
Notary Public: Kathleen R. Poulton
Date Commission Expires: November 8, 2006

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 11-8-06

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

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KCC WICHITA

✓

Side Two

Operator Name: OXY USA Inc. Lease Name: Hudkins A Well #: 2

Sec. 24 Twp. 34 S. R. 35W ☐ East ☐ West 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 copyof all Electric Wireline Logs surveyed. Attach final geological well site report.

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

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy) ☒ Yes ☐ No

List All E. Logs Run: Neutron Tracer Scan

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

Name	Top	Datum
Hollenberg	2644	-334
Herington	2675	-303
Krider	2714	-264
Odell	2747	-231
Winfield	2757	-221
Gage	2796	-182
Towanda	2814	-164

CASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set(in. O.D.)	Weight Lbs./ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor					C		
Surface	12 1/4	8 5/8	24	775	C C	220 150	35/65 POZ + Additives Class C + Additives
Production	7 7/8	4 1/2	11.6	2927	C H	172 210	Class C + Additives 50/50 Litepoz + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing	-			
____ Plug Back TD ____ Plug off Zone	-			

Shots Per Foot	PERFORATION RECORD – Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2644-2663, 2678-2687	Acidize - 2800 gls 15% HCL	
		Diverta Frac - 22230 gls 30# linear gel,	
		18065# 100 mesh sand, 57350 gls 75Q N2,	
		102700# 12/20 Sand	
4	2756-2796, 2750-2754, 2714-2747		

TUBING RECORD Size 2 3/8 Set At 2838 Packer At

Liner Run ☐ Yes ☒ No

Date of First, Resumed Production, SWD or Enhr. 07/15/04

Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil BBLS	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
		38	117		

Disposition of Gas

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

METHOD OF COMPLETION

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

☐ Other (Specify)

Production Interval

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Schlumberger Cementing Service Report

Customer	Job Number
OXY USA, INC.	2205546179

Well	Location (legal)	Schlumberger Location	Job Start
HUDKINS 'A' 2		Perryton, TX	2004-Jun-17

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		°	7.88 in	2,928 ft	2,928 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
STEVENS	KANSAS	psi	109 °F	°F	psi/ft

Well Master: 0630593073	API / UWI:

Rig Name	Drilled For	Service Via
CHEYENNE 8	Oil & Gas	

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	Cem Prod Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	Wellhead Connection
2000 psi	psi	4 1/2 HSM

Service Instructions

CEMENT 4 1/2 PROD. CASING WITH:
20 BBL CW100
~~200~~ SKS CLASS C+3%D79+0.2%D46+0.25PPS D29(LEAD)
210 SKS 50/50 POZ CLASS H + ADDS.(TAIL)
DISPLACE WITH 2% KCL & 1 lb. B69

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Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2929	4.5	11.6		

Tubing/Drill Pipe

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

Perforations/Open Hole

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	44.6 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
bbl	45 bbl	321 bbl	366 bbl

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

Lift Pressure: 800 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

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

Cement Head Type: Single

Job Scheduled For: Arrived on Location: 2004-Jun-17 1:00 Leave Location: 2004-Jun-17 7:58

Casing Tools

Shoe Type:	
Shoe Depth:	2929 ft
Stage Tool Type:	
Stage Tool Depth:	ft
Collar Type:	
Collar Depth:	2879 ft

Squeeze Job

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

Date	Time (24 hr clock)	Treating Pressure (psi)	Density (lb/gal)	Pump Rate (bbl/min)	Pump Vol (bbl)	SK FLOWMETER (bbl/min)	SK FLOW STAGE (bbl)	0 (0)	Message
2004-Jun-17	6:01	5	7.98	0.0	0.0	0.0	0.0	0	
2004-Jun-17	6:01	5	8.05	0.1	0.1	0.0	0.0	0	
2004-Jun-17	6:01								Start Job
2004-Jun-17	6:01								Pressure Test Lines
2004-Jun-17	6:01	5	8.06	0.1	0.1	0.0	0.0	0	
2004-Jun-17	6:02	23	8.23	0.1	0.2	0.1	0.9	0	
2004-Jun-17	6:02	27	8.23	0.6	0.2	0.0	0.9	0	
2004-Jun-17	6:03	4866	8.22	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:03	4710	8.20	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:04	5	8.18	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:04	5	8.18	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:05	5	8.18	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:05	5	8.18	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:06	5	8.17	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:06	5	8.17	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:07	5	8.21	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:07	9	8.19	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:08								Reset Total, Vol = 0.31 bbl
2004-Jun-17	6:08	9	8.18	0.0	0.3	0.0	0.9	0	
2004-Jun-17	6:08								Start Pumping Spacer
2004-Jun-17	6:08	9	8.18	0.0	0.0	0.0	0.0	0	
2004-Jun-17	6:08	9	8.19	0.0	0.0	0.0	0.0	0	

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Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04169-Jun-17	OXY USA, INC.	2205546179

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-17	6:08	206	8.22	2.2	1.1	0.0	0.0	0	
2004-Jun-17	6:09	169	8.22	2.3	2.3	0.2	0.0	0	
2004-Jun-17	6:09	192	8.22	2.9	3.6	0.2	0.1	0	
2004-Jun-17	6:10	192	8.23	2.6	4.9	0.2	0.2	0	
2004-Jun-17	6:10	165	8.23	2.4	6.2	0.2	0.3	0	
2004-Jun-17	6:11	192	8.22	2.7	7.6	0.1	0.4	0	
2004-Jun-17	6:11	192	8.23	3.0	8.9	0.1	0.5	0	
2004-Jun-17	6:12	156	8.22	2.4	10.3	5.6	1.0	0	
2004-Jun-17	6:12	220	8.15	2.3	11.4	5.4	3.8	0	
2004-Jun-17	6:13	211	8.28	1.9	11.6	5.4	4.2	0	
2004-Jun-17	6:13								End Spacer
2004-Jun-17	6:13	220	8.37	2.0	11.7	5.5	4.4	0	
2004-Jun-17	6:13								Reset Total, Vol = 20 bbl
2004-Jun-17	6:13	220	8.56	2.1	0.1	5.4	0.3	0	
2004-Jun-17	6:13								Start Mixing Lead Slurry
2004-Jun-17	6:13	238	9.43	2.2	0.8	5.3	2.1	0	
2004-Jun-17	6:13	256	11.48	2.0	1.9	5.3	4.7	0	
2004-Jun-17	6:14	270	11.65	1.8	2.8	5.4	7.4	0	
2004-Jun-17	6:14	238	12.24	2.0	3.7	5.5	10.1	0	
2004-Jun-17	6:15	215	12.07	1.7	4.5	5.4	12.8	0	
2004-Jun-17	6:15	174	11.71	1.3	5.2	5.5	15.5	0	
2004-Jun-17	6:16	160	11.91	1.4	5.9	5.6	18.2	0	
2004-Jun-17	6:16	169	12.24	1.4	6.4	5.3	21.0	0	
2004-Jun-17	6:17	169	12.25	1.4	6.9	5.4	23.6	0	
2004-Jun-17	6:17	160	12.00	0.7	7.4	5.3	26.3	0	
2004-Jun-17	6:18	156	12.05	1.0	7.8	5.7	29.0	0	
2004-Jun-17	6:18	156	12.11	0.9	8.2	5.5	31.8	0	
2004-Jun-17	6:19	156	12.14	0.6	8.5	5.4	34.5	0	
2004-Jun-17	6:19	156	12.05	0.4	8.8	5.2	37.2	0	
2004-Jun-17	6:20	146	12.01	0.5	9.0	5.4	39.9	0	
2004-Jun-17	6:20	169	12.63	0.6	9.2	5.4	42.5	0	
2004-Jun-17	6:21	151	11.92	0.2	9.4	5.3	45.2	0	
2004-Jun-17	6:21	146	11.87	0.2	9.5	5.6	47.9	0	
2004-Jun-17	6:22	165	12.94	0.2	9.6	5.5	50.6	0	
2004-Jun-17	6:22	160	12.34	0.2	9.8	5.3	53.4	0	
2004-Jun-17	6:23	137	11.47	0.1	9.8	5.1	56.1	0	
2004-Jun-17	6:23	137	11.65	0.0	9.9	5.4	58.8	0	
2004-Jun-17	6:24	156	12.63	0.1	9.9	5.3	61.5	0	
2004-Jun-17	6:24	156	12.21	0.1	9.9	5.5	64.2	0	
2004-Jun-17	6:25	142	12.01	0.1	10.0	5.6	66.9	0	
2004-Jun-17	6:25	156	12.60	0.0	10.0	5.3	69.7	0	
2004-Jun-17	6:26	160	12.47	0.2	10.1	5.5	72.4	0	
2004-Jun-17	6:26	174	13.69	0.3	10.2	5.4	75.1	0	
2004-Jun-17	6:27	179	14.05	0.2	10.3	5.4	77.8	0	
2004-Jun-17	6:27	174	13.72	0.2	10.4	5.5	79.8	0	
2004-Jun-17	6:27								End Lead Slurry 80 bbls
2004-Jun-17	6:27								Start Mixing Tail Slurry
2004-Jun-17	6:27	174	13.87	0.2	0.0	5.4	0.2	0	
2004-Jun-17	6:27	179	13.93	0.2	0.0	5.3	0.4	0	
2004-Jun-17	6:28	197	14.65	0.1	0.3	4.2	2.7	0	
2004-Jun-17	6:28	224	14.62	0.3	0.5	5.3	5.3	0	
2004-Jun-17	6:29	124	15.06	1.3	0.9	3.6	7.5	0	
2004-Jun-17	6:29	224	14.90	0.7	1.3	5.2	9.8	0	
2004-Jun-17	6:30	215	14.75	0.8	1.6	5.2	12.4	0	

Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04169-Jun-17	OXY USA, INC.	2205546179

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-17	6:30	192	14.11	0.7	2.0	5.3	15.1	0	
2004-Jun-17	6:31	188	14.15	1.0	2.3	5.2	17.7	0	
2004-Jun-17	6:31	201	14.19	1.0	2.8	5.3	20.3	0	
2004-Jun-17	6:32	192	14.10	1.0	3.3	5.2	23.0	0	
2004-Jun-17	6:32	179	13.72	1.6	3.9	5.2	25.6	0	
2004-Jun-17	6:33	183	14.07	1.4	4.6	5.3	28.2	0	
2004-Jun-17	6:33	220	14.51	1.5	5.4	5.3	30.8	0	
2004-Jun-17	6:34	206	14.34	2.0	6.3	5.4	33.5	0	
2004-Jun-17	6:34	179	13.78	2.0	7.4	5.2	36.2	0	
2004-Jun-17	6:35	188	13.78	2.3	8.5	5.3	38.8	0	
2004-Jun-17	6:35	188	13.82	2.5	9.7	5.3	41.5	0	
2004-Jun-17	6:36	192	14.08	2.4	11.0	5.3	44.1	0	
2004-Jun-17	6:36	197	14.18	3.3	12.4	5.3	46.7	0	
2004-Jun-17	6:37	124	14.26	3.8	14.0	3.7	49.3	0	
2004-Jun-17	6:37	23	14.47	1.2	15.6	2.7	51.1	0	
2004-Jun-17	6:38	14	14.41	0.0	15.6	0.0	51.2	0	
2004-Jun-17	6:38	14	14.43	0.0	15.6	0.0	51.2	0	
2004-Jun-17	6:38								End Tail Slurry
2004-Jun-17	6:38								Reset Total, Vol = 55 bbl
2004-Jun-17	6:38	14	14.43	0.0	15.6	0.0	51.2	0	
2004-Jun-17	6:38								Drop Top Plug
2004-Jun-17	6:38	14	14.45	0.0	0.0	0.0	0.0	0	
2004-Jun-17	6:38	14	14.46	0.0	0.0	0.0	0.0	0	
2004-Jun-17	6:38								Start Displacement
2004-Jun-17	6:38	14	14.46	0.0	0.0	0.0	0.0	0	
2004-Jun-17	6:39	14	9.31	0.0	0.0	4.3	1.5	0	
2004-Jun-17	6:39	14	9.03	0.0	0.0	0.0	1.7	0	
2004-Jun-17	6:40	14	8.74	0.0	0.0	0.0	1.7	0	
2004-Jun-17	6:40	101	9.31	0.0	0.0	3.9	2.2	0	
2004-Jun-17	6:41	82	8.73	0.0	0.0	4.3	4.4	0	
2004-Jun-17	6:41	266	8.38	0.0	0.0	6.2	7.0	0	
2004-Jun-17	6:42	279	8.22	0.0	0.0	6.6	10.3	0	
2004-Jun-17	6:42	14	8.21	0.0	0.0	0.7	12.9	0	
2004-Jun-17	6:43	366	8.23	0.0	0.0	7.8	15.4	0	
2004-Jun-17	6:43	5	8.24	0.0	0.0	0.1	16.0	0	
2004-Jun-17	6:44	78	8.23	0.0	0.0	3.7	16.7	0	
2004-Jun-17	6:44	73	8.22	0.0	0.0	5.7	19.3	0	
2004-Jun-17	6:45	69	8.23	0.0	0.0	5.7	22.2	0	
2004-Jun-17	6:45	307	8.23	0.0	0.0	5.6	25.0	0	
2004-Jun-17	6:46	174	8.22	0.0	0.0	5.5	27.9	0	
2004-Jun-17	6:46	261	8.23	0.0	0.0	5.6	30.6	0	
2004-Jun-17	6:47	256	8.23	0.0	0.0	5.4	33.4	0	
2004-Jun-17	6:47	252	8.22	0.0	0.0	3.9	35.4	0	
2004-Jun-17	6:48	261	8.23	0.0	0.0	3.9	20.8	0	
2004-Jun-17	6:48	339	8.23	0.0	0.0	3.9	22.7	0	
2004-Jun-17	6:49	385	8.23	0.0	0.0	3.9	24.7	0	
2004-Jun-17	6:49	508	8.23	0.0	0.0	4.0	26.6	0	
2004-Jun-17	6:50	476	8.22	0.0	0.0	3.9	28.6	0	
2004-Jun-17	6:50	504	8.22	0.0	0.0	3.9	30.5	0	
2004-Jun-17	6:51	549	8.22	0.0	0.0	3.7	32.5	0	
2004-Jun-17	6:51	568	8.23	0.0	0.0	3.7	34.4	0	
2004-Jun-17	6:52	449	8.23	0.0	0.0	2.4	35.8	0	
2004-Jun-17	6:52	623	8.23	0.0	0.0	2.3	37.0	0	
2004-Jun-17	6:53	627	8.22	0.0	0.0	2.4	38.2	0	

Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04169-Jun-17	OXY USA, INC.	2205546179

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-17	6:53	645	8.23	0.0	0.0	2.4	39.4	0	
2004-Jun-17	6:54	677	8.22	0.0	0.0	2.4	40.6	0	
2004-Jun-17	6:54	732	8.23	0.0	0.0	2.4	41.8	0	
2004-Jun-17	6:55	723	8.23	0.0	0.0	2.0	43.0	0	
2004-Jun-17	6:55	764	8.23	0.0	0.0	2.0	43.9	0	
2004-Jun-17	6:56	783	8.22	0.0	0.0	1.9	44.9	0	
2004-Jun-17	6:56	1346	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:57	1328	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58	1236	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58	14	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58	14	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58								Bump Top Plug
2004-Jun-17	6:58	14	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58								End Displacement 44.6 bbls
2004-Jun-17	6:58	14	8.23	0.0	0.0	0.0	45.3	0	
2004-Jun-17	6:58								End Job

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
4			5.7

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
151	0	20	

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
1300		400	1300	

Breakdown Fluid

Volume	Density
bbl	8.43 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp
%	151 bbl	44.6 bbl	°F

☐ Cement Circulated to Surface? Volume bbl

☐ Washed Thru Perfs To ft

Customer or Authorized Representative	Schlumberger Supervisor		
Greg, Fillpot,	Landeros, Feliverto	☐ CirculationLost	☑ Job Completed

Date	6/15/2004
Company	OXY USA, INC.
Job Number	2205546179
Well Name	HUDKINS 'A' 2
Well Number	A' 2
County	STEVENS
State	KANSAS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	11.6	11.6
Pipe Depth	2928.84	0
Shoe Length	49.1	
Insert Depth	2879.74	
Hole Size	7 7/8	
Hole Depth	2928	

	Pipe Volume	45
366	Annular Volume	321
	Total Cement	151
	Total Water	152

Pipe Factor	0.0155	0.0155
Annular Factor	0.0406	
Height Factor	4.3898	

Casing lift	2136
Cement lift	881

172

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

199

50:50 POZ H					
210	sacks	D46	D42	D53	
1.55	yield	D112	M117	D132	D20
13.8	weight	D65			
7.1	water	36			
	cubic ft.	326			
	height	1429			
	bbls	58			

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

93 Lead 12

58 Tail 13.8

44.6 Displacement

2000 Maximum Pressure

Pump time @ 4 BPM 49 MIN

CONFIDENTIAL

Schlumberger

Cementing Service Report

Customer	Job Number
OXY USA, INC. SEP 2 9 2004	2205546178

Well	Location (legal)	Schlumberger Location	Job Start
HUDKINS 'A' 2	CONFIDENTIAL	Perryton, TX	2004-Jun-15

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
		°	12.3 in	775 ft	775 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
STEVENS	KANSAS	psi	90 °F	°F	psi/ft

Well Master: 0630593073	API / UWI:

Rig Name	Drilled For	Service Via
CHEYENNE 8	Oil & Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	Cem Surface Casing

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

Service Instructions

CEMENT 8 5/8 CASING WITH:
220 SKS 35/65 POZ/C+6%D20+2%S1+0.25 PPS D29
150 SKS CLASS C + 2% S1 + 0.25 PPS D29

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
789	8.63	24		

Tubing/Drill Pipe

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

Perforations/Open Hole

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

Treat Down	Displacement	Packer Type	Packer Depth
Casing	47.4 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
bbl	50 bbl	58 bbl	108 bbl

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

Lift Pressure: 350 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers: Top Plugs: 1 Bottom Plugs:

Cement Head Type: Single

Job Scheduled For: Arrived on Location: 2004-Jun-15 1:00 Leave Location: 2004-Jun-15 5:41

Casing Tools

Shoe Type:	
Shoe Depth:	775 ft
Stage Tool Type:	
Stage Tool Depth:	ft
Collar Type:	
Collar Depth:	744.86 ft

Squeeze Job

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

Date	Time (24 hr clock)	Treating Pressure (psi)	Density (lb/gal)	Pump Rate (bbl/min)	Pump Vol (bbl)	SK FLOWMETER (bbl/min)	SK FLOW STAGE (bbl)	0 (0)	Message
2004-Jun-15	3:57	5	8.21	0.0	0.0	0.0	0.0	0	
2004-Jun-15	3:57	5	8.21	0.0	0.0	0.0	0.0	0	
2004-Jun-15	3:57								Start Job
2004-Jun-15	3:57								Pressure Test Lines
2004-Jun-15	3:57	5	8.20	0.0	0.0	0.0	0.0	0	
2004-Jun-15	3:57	1620	8.21	0.0	0.2	0.0	0.0	0	
2004-Jun-15	3:58	4070	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	3:58	4005	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	3:59	3735	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	3:59	60	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:00	60	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:00	60	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:01	0	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:01	0	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:02	0	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:02	0	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:02								Start Pumping Spacer
2004-Jun-15	4:02	0	8.22	0.0	0.2	0.0	0.0	0	
2004-Jun-15	4:02								Reset Total, Vol = 0.22 bbl
2004-Jun-15	4:02	0	8.22	0.0	0.0	0.2	0.0	0	
2004-Jun-15	4:03	92	8.22	5.6	0.9	5.2	0.9	0	
2004-Jun-15	4:03	82	8.17	5.7	3.8	5.8	3.8	0	

RECEIVED
OCT 0 1 2004
KCC WICHITA

Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04167-Jun-15	OXY USA, INC.	2205546178

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	4:04	82	8.33	5.7	6.1	5.9	6.2	0	
2004-Jun-15	4:04								End Spacer
2004-Jun-15	4:04	82	8.47	5.8	6.3	5.9	6.4	0	
2004-Jun-15	4:04								Reset Total, Vol = 6.34 bbl
2004-Jun-15	4:04								Start Mixing Lead Slurry
2004-Jun-15	4:04	87	8.60	5.7	0.2	5.9	0.2	0	
2004-Jun-15	4:04	92	8.67	5.7	0.3	5.9	0.3	0	
2004-Jun-15	4:04	133	11.65	5.7	3.1	5.8	3.2	0	
2004-Jun-15	4:05	201	12.92	5.7	6.0	5.8	6.0	0	
2004-Jun-15	4:05	146	11.37	5.7	8.9	5.3	8.9	0	
2004-Jun-15	4:06	133	11.87	5.7	11.7	5.7	11.7	0	
2004-Jun-15	4:06	183	13.09	5.7	14.6	5.7	14.6	0	
2004-Jun-15	4:07	192	13.20	5.7	17.4	5.7	17.5	0	
2004-Jun-15	4:07	142	12.27	5.7	20.3	5.9	20.3	0	
2004-Jun-15	4:08	146	12.30	5.7	23.1	5.7	23.2	0	
2004-Jun-15	4:08	156	12.72	5.7	26.0	5.6	26.0	0	
2004-Jun-15	4:09	137	12.05	5.8	28.9	5.8	28.8	0	
2004-Jun-15	4:09	133	11.97	5.7	31.7	5.8	31.7	0	
2004-Jun-15	4:10	151	12.63	5.7	34.6	5.7	34.5	0	
2004-Jun-15	4:10	151	12.59	5.7	37.4	5.8	37.4	0	
2004-Jun-15	4:11	124	11.89	5.7	40.3	5.7	40.2	0	
2004-Jun-15	4:11	124	11.86	5.7	43.2	5.6	43.0	0	
2004-Jun-15	4:12	160	12.82	5.7	46.0	5.8	45.9	0	
2004-Jun-15	4:12	146	12.43	5.7	48.9	5.6	48.7	0	
2004-Jun-15	4:13	128	12.04	5.7	51.8	5.6	51.7	0	
2004-Jun-15	4:13	137	12.29	5.7	54.7	5.4	54.5	0	
2004-Jun-15	4:14	137	12.24	5.7	57.5	5.8	57.3	0	
2004-Jun-15	4:14	151	12.70	5.7	60.4	5.9	60.2	0	
2004-Jun-15	4:15	142	12.49	5.7	63.3	5.5	63.0	0	
2004-Jun-15	4:15	119	11.88	5.7	66.1	5.9	65.8	0	
2004-Jun-15	4:16	124	12.24	5.7	69.0	5.8	68.7	0	
2004-Jun-15	4:16	142	12.40	5.7	71.8	5.9	71.5	0	
2004-Jun-15	4:17	137	12.49	5.7	74.7	5.8	74.4	0	
2004-Jun-15	4:17	128	12.50	5.7	77.5	5.9	77.2	0	
2004-Jun-15	4:18	137	13.20	5.7	80.4	5.9	80.1	0	
2004-Jun-15	4:18	174	14.16	5.7	81.2	5.8	80.9	0	
2004-Jun-15	4:18								End Lead Slurry
2004-Jun-15	4:18	183	14.33	5.7	81.3	5.8	81.1	0	
2004-Jun-15	4:18								Reset Total, Vol = 81.35 bbl
2004-Jun-15	4:18	192	14.51	5.7	0.2	5.8	0.2	0	
2004-Jun-15	4:18								Start Mixing Tail Slurry
2004-Jun-15	4:18	261	15.20	5.7	1.9	5.6	1.9	0	
2004-Jun-15	4:19	197	14.38	5.7	4.8	5.8	4.8	0	
2004-Jun-15	4:19	220	15.10	5.7	7.6	5.6	7.6	0	
2004-Jun-15	4:20	224	15.02	5.7	10.5	5.7	10.4	0	
2004-Jun-15	4:20	243	15.23	5.7	13.3	5.6	13.3	0	
2004-Jun-15	4:21	229	14.88	5.7	16.2	5.7	16.1	0	
2004-Jun-15	4:21	233	15.23	5.7	19.1	5.8	19.0	0	
2004-Jun-15	4:22	229	15.18	5.9	21.9	5.9	21.8	0	
2004-Jun-15	4:22	197	14.65	5.7	24.8	5.7	24.7	0	
2004-Jun-15	4:23	266	15.65	5.7	27.6	5.9	27.5	0	
2004-Jun-15	4:23	224	14.95	5.7	30.5	5.7	30.4	0	
2004-Jun-15	4:24	247	15.76	5.7	33.3	5.9	33.2	0	
2004-Jun-15	4:24	27	14.32	0.0	34.3	0.0	34.2	0	

Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04167-Jun-15	OXY USA, INC.	2205546178

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	4:24								End Tail Slurry
2004-Jun-15	4:24	23	14.39	0.0	34.3	0.0	34.2	0	
2004-Jun-15	4:24								Reset Total, Vol = 34.26 bbl
2004-Jun-15	4:24								Drop Top Plug
2004-Jun-15	4:24	23	14.59	0.0	0.0	0.0	0.0	0	
2004-Jun-15	4:24								Start Displacement
2004-Jun-15	4:24	23	14.71	0.0	0.0	0.0	0.0	0	
2004-Jun-15	4:24	18	15.36	0.0	0.0	0.0	0.0	0	
2004-Jun-15	4:25	14	15.33	0.0	0.0	2.8	0.1	0	
2004-Jun-15	4:25	14	9.86	0.0	0.0	0.1	0.7	0	
2004-Jun-15	4:26	9	9.76	0.0	0.0	0.0	0.7	0	
2004-Jun-15	4:26	9	9.79	0.0	0.0	0.0	0.7	0	
2004-Jun-15	4:27	9	9.80	0.0	0.0	0.0	0.7	0	
2004-Jun-15	4:27	9	9.79	0.0	0.0	0.0	0.7	0	
2004-Jun-15	4:28	55	10.21	3.2	0.6	3.8	1.3	0	
2004-Jun-15	4:28	60	8.86	5.6	3.2	5.7	4.0	0	
2004-Jun-15	4:29	50	8.38	5.6	6.0	5.7	6.8	0	
2004-Jun-15	4:29	55	8.25	5.6	8.8	5.9	9.7	0	
2004-Jun-15	4:30	50	8.15	5.6	11.7	5.6	12.7	0	
2004-Jun-15	4:30	14	8.19	5.6	14.5	4.0	15.6	0	
2004-Jun-15	4:31	78	8.18	5.6	17.3	5.8	16.8	0	
2004-Jun-15	4:31	82	8.22	5.6	20.1	0.1	19.3	0	
2004-Jun-15	4:32	114	8.22	5.7	22.9	5.8	21.4	0	
2004-Jun-15	4:32	133	8.22	5.7	25.8	5.8	24.3	0	
2004-Jun-15	4:33	151	8.22	5.7	28.6	5.8	26.7	0	
2004-Jun-15	4:33	174	8.22	5.8	31.5	6.0	29.6	0	
2004-Jun-15	4:34	197	8.22	5.7	34.4	5.7	32.5	0	
2004-Jun-15	4:34	211	8.22	5.7	37.2	5.7	35.3	0	
2004-Jun-15	4:35	160	8.22	2.5	39.4	2.6	37.6	0	
2004-Jun-15	4:35	174	8.22	2.0	40.4	2.1	38.7	0	
2004-Jun-15	4:36	183	8.22	2.0	40.2	2.1	39.7	0	
2004-Jun-15	4:36	169	8.22	2.0	41.3	2.1	40.8	0	
2004-Jun-15	4:37	160	8.22	2.0	42.3	2.0	41.8	0	
2004-Jun-15	4:37	183	8.22	1.9	43.2	1.9	42.8	0	
2004-Jun-15	4:38	169	8.22	1.9	44.2	1.9	43.7	0	
2004-Jun-15	4:38	179	8.22	1.9	45.1	1.9	44.7	0	
2004-Jun-15	4:39	211	8.22	1.9	46.1	1.9	45.7	0	
2004-Jun-15	4:39	229	8.22	1.9	47.0	2.0	46.6	0	
2004-Jun-15	4:40								Bump Top Plug
2004-Jun-15	4:40	797	8.22	0.0	47.2	0.0	46.8	0	
2004-Jun-15	4:40								End Displacement
2004-Jun-15	4:40	797	8.22	0.0	47.2	0.0	46.8	0	
2004-Jun-15	4:40	797	8.22	0.0	47.2	0.0	46.8	0	
2004-Jun-15	4:40								Reset Total, Vol = 47.15 bbl
2004-Jun-15	4:40	801	8.22	0.0	0.0	0.0	0.0	0	
2004-Jun-15	4:41	-14	8.22	0.0	0.0	0.0	0.0	0	
2004-Jun-15	4:41								End Job
2004-Jun-15	4:41	-9	8.22	0.0	0.0	0.0	0.0	0	

Well	Field	Service Date	Customer	Job Number
HUDKINS 'A' #2		04167-Jun-15	OXY USA, INC.	2205546178

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	

Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
2.5			5.7	121	0	10	

Treating Pressure Summary, psi					Breakdown Fluid	
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density
800		150	830		bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	121 bbl	47.4 bbl	°F	☐ Washed Thru Perfs To ft	17 bbl

Customer or Authorized Representative	Schlumberger Supervisor		
Fillpot, Greg	Landeros, Feliverto	☐ CirculationLost	☑ Job Completed

Date	6/15/2004
Company	OXY
Job Number	2205546178
Well Name	HUDKINS 'A' 2
Well Number	A' 2
County	STEVENS
State	KANSAS

Schlumberger

	Pipe Size	8 5/8	
	Pipe Weight	24	24
	Pipe Depth	788.62	0
	Shoe Length	43.76	
	Insert Depth	744.86	
	Hole Size	12 1/4	
	Hole Depth	775	
	Pipe Volume	50	
108	Annular Volume	58	
	Total Cement	121	
	Total Water	163	

Pipe Factor	0.0637	0.0637
Annular Factor	0.0735	
Height Factor	2.4231	

Casing lift	324
Cement lift	209

CLASS C

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

CLASS C

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

3rd System

0	sacks	
0	yield	
0	weight	
0	water	0
	cubic ft.	0
	height	0
	bbls	0

4th System

	sacks	
	yield	
	weight	
	water	0
	cubic ft.	0
	height	0
	bbls	0

Test 3000

0	Mud	
10	Spacer	
85	Lead	12.2
36	Tail	14.8
47.4	Displacement	
1500	Maximum Pressure	

Pump time @ 5 BPM 34 MIN

6671

Schlumberger **Service Order** 2004-Jun-07

Customer	Person Taking Call	Dowell Location	OrderDate	Job Number
OXY USA, INC.	Ousley, John	Perryton, TX	2004-Jun-14	**2205546178**

Well Name and Number	Legal Location	Field	County	State/Province
HUDKINS 'A' 2			STEVENS	KANSAS

Well Master:	API / UWI:	
0630593073		

Rig Name	Well Age	Sales Engineer	Job Type
CHEYENNE 8	New	Cambern, Charles	Cem Surface Casing

Time Well Ready:	Deviation	Bit Size	Well MD	Well TVD	BHP	BHST	BHCT
	°	12.3 in	800 ft	800 ft	psi	90 °F	°F

Treat Down	Packer Type	Packer Depth	WellHead Connection	HHP on Location	Max AllowedPressure	Max Allowed AnnPressure
Casing		ft	8 5/8 HS&M		1000	

Casing

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
800	8.63	24		

Tubing

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

Perforated Intervals

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

Services Instructions:

CEMENT 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

Extra Equipment:

1 PUMP
1 ABT
1 CEMCAT

Expected On Location:

Ready To Pump:

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

Notes:

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

Directions:

PERRYTON TX, HWY 83 NORTH TO LIBERAL KS, TAKE TRUCK ROUTE NORTH TO STOP LIGHT(PANCAKE BLVD), CONTINUE NORTH 1.9 MI TO TUCKER RD, WEST ON TUCKER RD TO STOP LIGHT,CONTINUE 8 MI WEST ON TUCKER RD, 1 1/2 MI NORTH, 1/4 WEST, 1/4 NORTH TO LOC.

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	ft³/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
S001	1.775	lbs/sk	390.5
D029	0.25	lbs/sk	55

TAIL

150 SKS CLASS C + 2%S1+0.25PPS D29

Density:	14.8	lb/gal	*Thickening Time:*		
Yield:	1.34	ft³/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
D029	0.25	lbs/sk	37.5
S001	1.88	lbs/sk	282
CLASS C	94	lbs/sk	14100