

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 300

City/State/Zip Tulsa, OK 74102-0300

Purchaser: Duke

Operator Contact Person: Raymond Hui

Phone (918) 561-3548

Contractor: Name: Cheyenne Drilling Co.

License: 5382

Wellsite Geologist: None

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

7-29-97 7-31-97 8-23-97
Spud Date Date Reached TD Completion Date

API NO. 15-189-22220-00-00

County Stevens

NE SW SW Sec. 35 Twp. 34S Rge. 35 X E W

1250 FSL Feet from S/W (circle one) Line of Section

4030 FEL Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Rennick A Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2967 KB _____

Total Depth 2952 PBTB 2925

Amount of Surface Pipe Set and Cemented at 690 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 3-16-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 3200 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 Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, 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 on 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 Raymond Hui

Title Analyst Raymond Hui Date 10-5-97

Subscribed and sworn to before me this 5th day of October, 1998.

Notary Public Elizabeth Kinion ELIZABETH KINION

Date Commission Expires 2-26-2000

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution: KCC SWD/Rep NGPA
 KGS Plug Other (Specify)
FEB 23 1998

Form ACO-1 (7-91) SION
Kansas

2-23-98

Operator Name CXY USA Inc.

Lease Name Rennick A

Well # 4

Sec. 35 Twp. 34S Rge. 35

East
 West

County Stevens

ORIGINAL

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: Ran Neutron Gamma Ray

Name	Top	Datum
Hollenberg	2654	313
Herington	2678	289
Krider	2708	259
Winfield	2762	205
Towanda	2829	138
Ft. Riley	2878	89

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24	690	Class A	270	2%
Production	7 7/8"	5 1/2"	14	2937	Class A	420	3%

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
2	Holl. 2658-2662; Herington 2682-2686; Krider 2714-2718; Winfield 2762-2764	1000 gal 7.5% HCL	
		Frac'd W/29600 Gal.	

TUBING RECORD Size 2 3/8" Set At 2812 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Pump Testing 9-27-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		50 MCF			

Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease (If vented, submit ACO-18.)

Production Interval Open Hole Perf. Dually Comp. Commingled 2658' - 2764'

Other (Specify) _____

Schlumberger

Dowell

15552

Dowell a Division of Schlumberger Technology Corporation
204 S Missouri
Ulysses, KS 67880

INVOICE

ORIGINAL

COPY

ORIGINAL

Service Date	07/29/1997	Job Number	20011137	Invoice Date	07/28/1997	Invoice	0090017612
Bill To: OXY USA INC PO Box 318 LIBERAL KS 67901				Remit To: Dowell a Division of Schlumberger Technology Corporation PO Box 201556 Houston TX 77216			
				Tax Registration Number: 22-1692661 We can invoice you EDI. Call (281) 285 4230 for more information.			
Terms 30 Days Net				Service Description DW Cementing-Case,Cement Surface			
Customer PO		Contract		AFE		Price Reference Dowell US	
Well RENNICK A-4		State KS	County/Parish/Block Stevens		Legal Location SEC:35 T:34S R:35W		
Field		Customer or Authorized Representative Russ Cravens				Rig CHEYENNE WELL SERVICE 3	

Item	Description	Quantity	List Price	Disc	Net Price	Net Amount
49100000	Service Chg Cement Matl Land All DW Fur	285.000 CF	1.53	30.001 %	1.0710	305.23
49102000	Transportation Cement Ton Mile	686.000 MI	1.12	30.001 %	0.7840	537.82
59200002	Mileage, All Other Equipment	52.000 MI	3.15	30.000 %	2.2050	114.66
59697000	PACR Treatment Analysis Recorder	1.000 JOB	179.00	30.000 %	125.3000	125.30
102871010	Casing Crmnt 501-1000' 1st 8hr	1.000 EA	940.00	30.000 %	658.0000	658.00
*Sub-Total Services						1,741.01
53003085	Insert, Orifice Fill	1.000 EA	396.00	30.000 %	277.2000	277.20
56008085	Basket, Cementing 8-5/8 In	1.000 EA	294.00	30.000 %	205.8000	205.80
56011085	Centralizer, Regular	4.000 EA	90.00	30.000 %	63.0000	252.00
56702085	Plug, Cementing 8 5/8 In Top Plastic	1.000 EA	120.00	30.000 %	84.0000	84.00
D029	Cellophane Flakes D29	68.000 LB	1.91	29.997 %	1.3371	90.92
D046	Antifoam Agent, All Purpose D46	23.000 LB	3.68	29.998 %	2.5761	59.25
D079	Extender, Chemical D79	338.000 LB	1.56	29.999 %	1.0920	369.10
D903	Cement, Class C D903	271.000 CF	10.94	30.000 %	7.6580	2,075.32
K232	Thread Locking Compound Kit K232	1.000 EA	31.00	30.000 %	21.7000	21.70
S001	Calcium Chloride 77% S1	508.000 LB	0.48	29.999 %	0.3360	170.69
*Sub-Total Products						3,605.98
*Tax, USState/CanGST		4.900 %				203.04
*Tax, US City		1.000 %				41.44
*Total Amount Due on or Before 08/27/97 payable in USD						5,591.47

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MAR 16 1998

CONSERVATION DIVISION
Wichita, Kansas

Please reference invoice number 0090017612 on payment.

Thank-you for calling Dowell

Schlumberger

Dowell

Dowell, A Division of Schlumberger Technology Corp.
204 S Missouri
Ulysses, KS

Service Authorization

ORIGINAL

Job Number
20011137

Important: See other side for terms and conditions

Invoice Mailing Address: OXY USA INC LIBERAL, KS 67901 US		ARRIVE LOCATION Scale: 7/29/97 Time: 8:00:00 AM
Customer PO 0		Contract 0
Well RENNICK A-4		State/Province KS
Field Hugoton		County/Parish/Elect Stevens
APR 0		Rig CHEYENNE WELL SERVICE 3
Service Description Cementing - Cem Surface Casing		Legal Location Sec. 35-34S-35W
Customer or Authorized Representative Russ Cravens		Customer or Authorized Representative Russ Cravens

Dowell will furnish and customer shall purchase materials and services required in the performance of the following service instructions in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order.

Comments

Service Order: I authorize work to begin as per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attachment to this form and represent that I have authority to accept and sign this order

Signature of Customer or Authorized Representative

Russ Cravens

Signature of Dowell Representative

Dave Brawley

Thank you for Calling Dowell!

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CONSERVATION DIVISION
Wichita, Kansas



Cementing Service Report

ORIGINAL

Well		Location (Legal)		Dowell Location		Service Date	
RENNICK A-4		Sec. 35-34S-35W		Ulysses, KS		7/28/97	
Field		Formation Name/Type		Deviation		Well TD	
Hugoton		Shale		0		692 ft	
County		State/Province		BHP		Well TVD	
Stevens		KS		0 psi		692 ft	
Rig Name		Drilled For		Service Via		Casing/Liner	
ENNE WELL SERV		Gas		Land		Depth, ft	
Water Depth		Well Class		Well Type		Size, in	
0		101		Development		Weight, lb/ft	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Grade	
Bentonite		9.2 lb/gal		33 op		Thread	
Service Line		Job Type		Depth, ft		Size, in	
Cementing		Cem Surface Casing		0		0	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Wellhead Connection		Perforations/Open Hole	
1000 psi		0 psi		Single cement head		Top, ft	
Service Instructions		Supply people & equipment to safely perform surface cement job with materials & equipment listed below. Per clients instructions.		Bottom, ft		sq ft	
				0		No. of Shots	
				0		Total Interval	
				0		0 ft	
				0		Diameter	
				0		0 in	
				Treat Down		Displacement	
				Casing		41.5 bbl	
				Feeder Type		None	
				Feeder Depth		0 ft	
				Tubing Vol.		Casing Vol.	
				0 bbl		44.2 bbl	
				Annular Vol.		51 bbl	
				Open Hole Vol		0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: 302 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide	
No. Centralizers: 4		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 695 ft	
Cement Head Type: Single		Stage Tool Type		Tool Type		Squeeze Type	
Job Scheduled For: 7/29/97 8:00		Arrived on Location: 7/29/97 8:00		Leave Location: 7/29/97 12:00		Stage Tool Depth: 0 ft	
						Tool Depth: 0 ft	
						Collar Type: Auto-Fill	
						Collar Depth: 652 ft	
						Sqr Total Vol: 0 bbl	
Time		Cem Vol		Density		Pressure U/I	
24 hr clock		bbl		ppg		psi	
				Reset Volume		Tot Flowrate	
				bbl		bpm	
						Message	
14:17		0		0		0	
14:17		0		8.097		4566	
14:17		0		0		0	
14:17		0		8.15		71.79	
14:18		0		8.154		55.51	
14:18		0		8.15		64.16	
14:19		0		8.144		74.27	
14:19		0		7.898		85.43	
14:20		0		8.099		81.55	
14:20		0		8.12		76.02	
14:21		0		8.117		80.95	
14:21		1.541		8.123		80.82	
14:22		3.976		8.093		189.1	
14:22		6.462		8.082		149.7	
14:23		0		0		0	
14:23		0		0		0	
14:23		9.323		11.12		183.7	
14:23		12.19		11.23		191	
14:24		15.08		10.6		165.6	
14:24		17.95		11.03		163	
14:25		20.83		11.17		162.9	
				[Reset Volume]=0 bbl			
				Start Mixing Lead Slurry			
				STATE OF KANSAS COMMISSION			
				LEAD 16 1997			
				CIVIL SERVICE DIVISION			

Well		Field				Service Date	Customer	Job Number
RENNICK #A-4		Hugoton				7/28/97	OXY USA INC	2001137
Time	Card Vol	Density	Pressure UI	Reset Volume	Tail Flowrate			Message
24 hr Clock	MM	PPH	psi	bbt	gpm			
14:25	23.7	11.02	153.6	16.19	5.711	0	0	
14:26	28.67	10.93	133	19.16	5.714	0	0	
14:26	29.55	10.94	133.1	22.05	5.707	0	0	
14:27	32.43	10.83	126	24.92	5.711	0	0	
14:27	35.3	11.03	128.9	27.79	5.711	0	0	
14:28	38.17	11.13	122.7	30.66	5.697	0	0	
14:28	41.04	11.03	135.8	33.53	5.711	0	0	
14:29	43.93	10.82	128.4	36.42	5.707	0	0	
14:29	46.8	10.96	128.9	39.29	5.718	0	0	
14:30	49.67	11.04	131.4	42.17	5.718	0	0	
14:30	52.54	10.98	128.2	45.04	5.706	0	0	
14:31	55.43	10.88	127.8	47.92	5.716	0	0	
14:32	58.3	10.94	122.5	50.79	5.72	0	0	
14:32	61.17	10.93	130	53.67	5.71	0	0	
14:33	64.05	10.97	129.6	56.54	5.702	0	0	
14:33	66.92	10.82	124.2	59.41	5.711	0	0	
14:34	69.8	11.06	124.2	62.3	5.714	0	0	
14:34	72.68	10.79	124.5	65.17	5.711	0	0	
14:34	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
14:34	0	0	0	0	0	0	0	Start Mixing Tail Slurry
14:35	75.55	13.46	160	1.436	5.717	0	0	
14:35	78.4	14.95	256.8	4.286	5.598	0	0	
14:36	81.21	14.43	225.2	7.098	5.578	0	0	
14:36	84.03	14.44	214.4	9.921	5.576	0	0	
14:37	86.85	14.48	228.6	12.73	5.582	0	0	
14:37	89.66	14.42	223	15.54	5.593	0	0	
14:38	92.47	14.5	221.2	18.36	5.592	0	0	
14:38	95.28	14.67	223.5	21.17	5.599	0	0	
14:39	98.11	14.78	226.3	23.99	5.591	0	0	
14:39	100.9	14.56	218.9	26.8	5.592	0	0	
14:40	103.7	14.45	208	29.62	5.58	0	0	
14:40	106.5	14.71	207.9	32.43	5.583	0	0	
14:41	109.3	14.32	131.3	35.21	4.492	0	0	
14:41	109.6	14.12	2.729	35.53	2137E-6	0	0	
14:42	109.6	14.24	5.857	35.53	785E-9	0	0	
14:42	109.6	14.21	4.618	35.53	2739E-13	0	0	
14:43	111.2	10.15	87.51	37.06	4.836	0	0	
14:43	113.6	8.927	45.29	38.47	4.782	0	0	
14:44	116	8.221	35.01	41.88	4.78	0	0	
14:44	0	0	0	0	0	0	0	[Reset Volume]=7 bbl
14:44	118.4	7.926	33.16	8.604	4.786	0	0	
14:45	120.8	7.998	33.25	11.01	4.779	0	0	
14:45	123.2	8.052	28.79	13.42	4.78	0	0	
14:46	125.6	8.073	19.23	15.83	4.783	0	0	
14:46	128	8.131	18.03	18.23	4.771	0	0	
14:47	130.4	8.142	48.35	20.63	4.782	0	0	
14:47	132.8	8.158	63.97	23.04	4.773	0	0	
14:48	135.2	8.126	100.9	25.43	4.772	0	0	
14:48	137.6	8.162	95.98	27.84	4.768	0	0	
14:49	140	8.145	141.4	30.24	4.767	0	0	
14:49	142.4	8.18	135.7	32.63	4.754	0	0	
14:50	144.8	8.167	162.3	35.02	4.753	0	0	
14:50	148.5	8.138	126.1	36.67	1.938	0	0	

ORIGINAL

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CONSERVATION DIVISION

MAR 10 1998

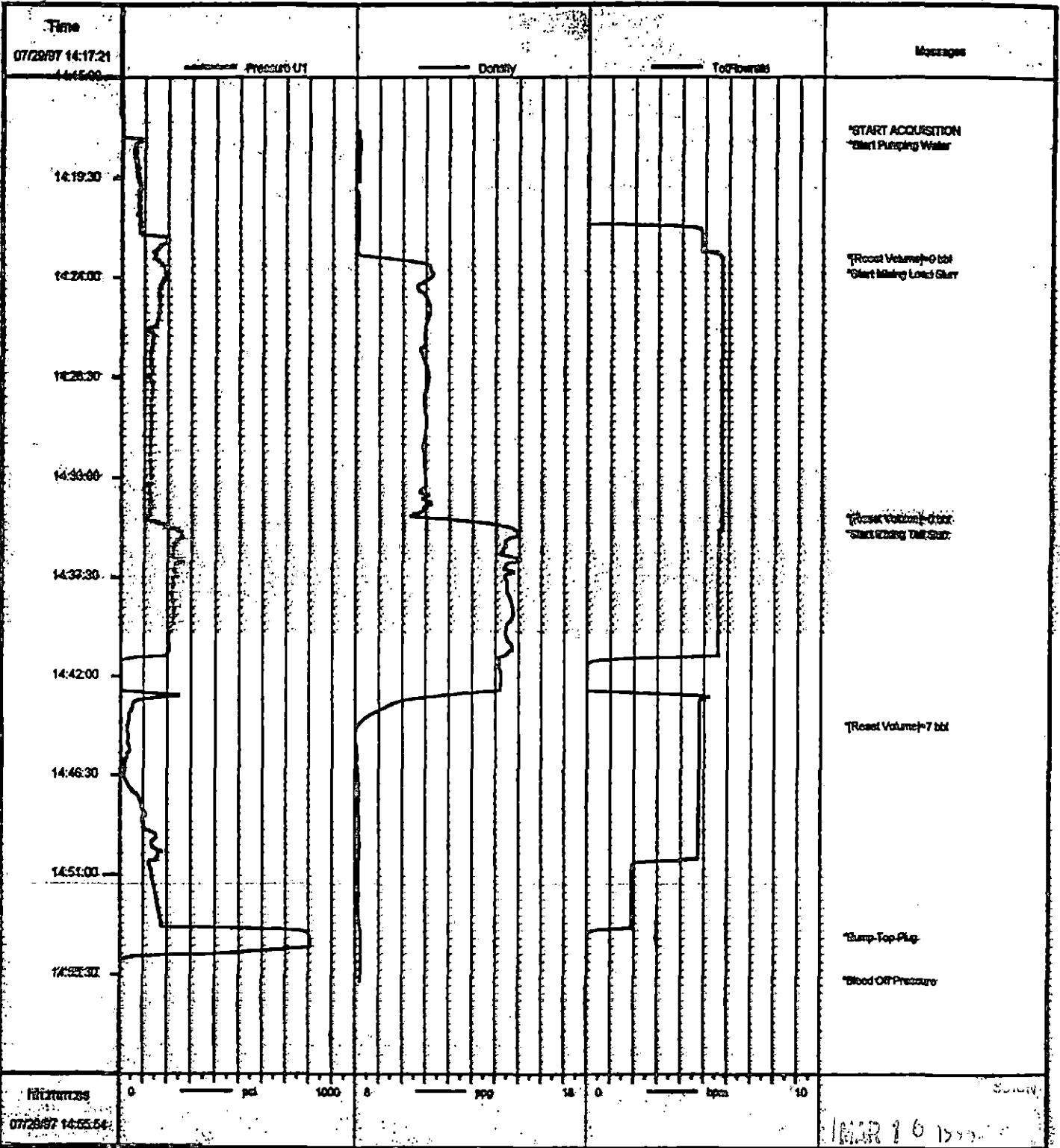
CONSERVATION DIVISION
Wichita, Kansas

Well		Field		Service Date		Customer		Job Number	
RENNICK #A-4		Hugoton		7/28/97		OXY USA INC		20011137	
Time	Control	Density	Pressure (ft)	Reset Volume	Total Volume			Message	
24 hr Clock	MM	PPH	psi	bbl	bbl				
14:51	147.4	8.143	135.2	37.64	1.921	0	0		
14:51	148.4	8.15	149.3	38.61	1.925	0	0		
14:52	149.4	8.131	157.7	39.57	1.922	0	0	ORIGINAL	
14:52	150.3	8.143	166.7	40.54	1.922	0	0		
14:53	151.3	8.171	177.3	41.5	1.921	0	0		
14:53	151.9	8.225	798.5	42.08	2945E-5	0	0		
14:53	0	0	0	0	0	0	0	Bump Top Plug	
14:54	151.9	8.219	808	42.06	1054E-8	0	0		
14:54	151.9	8.213	128.7	42.06	3775E-12	0	0		
14:55	151.9	8.204	-1.106	42.06	1351E-15	0	0		
14:55	151.9	8.204	-.4976	42.06	4839E-19	0	0		
14:55	0	0	0	0	0	0	0	Bleed Off Pressure	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	Hz	Med	Maximum Rate	Total Slurry	Med	Spacer	Hz		
5	0	0	5.7	100	0	0	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Peak	Average	Bump Plug to	Breakdown	Type	Volume	Density		
250	200	150	0	0		0 bbl	0 lb/gal		
Avg. Hz Percent	Designed Slurry Volume	Displacement			<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume		bbl		
0 %	0 bbl	41.5 bbl			<input type="checkbox"/> Washed Tubs Perfs To		0 ft		
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	
Russ Cravens			Dave Brawley						

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STATE OF MISSOURI

MAR 16 1997

Well: Rennick #A-4	Client: Oxy USA Inc.
Field: Hugoton	SIR No: 20011137
Country: USA	Job Date: 7/29/97 2:17:21 PM



Job: oxy11137

07/29/97 14:57

Pressure 0
07/29/97 14:55:54

1 AUG 16 1997