

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

15-189-22217-00-00

API NO. _____
 County Stevens
 _____ - SE - NW - NW Sec. 22 Twp. 34S Rge. 35 ^E X _W

Operator: License # 5447

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

Name: OXY USA Inc.

Address P. O. Box 300

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

City/State/Zip Tulsa, OK 74102-0300

Lease Name Bonsall A Well # 3

Purchaser: Duke Pipeline Co.

Field Name Hugoton

Operator Contact Person: Raymond Hui

Producing Formation Chase

Phone (918) 561-3548

Elevation: Ground 2992 KB _____

Contractor: Name: Cheyenne Drilling Co.

Total Depth 2924 PBTD 2900

License: 3582

Amount of Surface Pipe Set and Cemented at 744 Feet

Wellsite Geologist: None on Loc.

Multiple Stage Cementing Collar Used? _____ Yes X No

Designate Type of Completion

If yes, show depth set _____ Feet

_____ New Well _____ Re-Entry _____ Workover

If Alternate II completion, cement circulated from _____

_____ Oil _____ SWD _____ SIGW _____ Temp. Abd.

feet depth to _____ w/ _____ sx cmt.

X Gas _____ ENHR _____ SIGW

Drilling Fluid Management Plan Att. 1 5-12-98 U.C.
 (Data must be collected from the Reserve Pit)

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Chloride content 3200 ppm Fluid volume 800 bbls

Operator: _____

Dewatering method used Evaporation X

Well Name: _____

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite:

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

Operator Name _____

_____ Plug Back _____ PBTD

Lease Name _____ License No. _____

_____ Commingled _____ Docket No. _____

_____ Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

_____ Dual Completion _____ Docket No. _____

County _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

8-12-97 8-15-97 10-27-97

Spud Date _____ Date Reached TD _____ Completion Date _____

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 Date 11-18-97

Subscribed and sworn to before me this 18th day of November, ~~1997~~ 1997.

Notary Public Elizabeth Kinion ELIZABETH KINION

Date Commission Expires 2-26-2000

K.C.C. OFFICE USE ONLY		
F	Letter of Confidentiality Attached	
C	<u>X</u> Wireline Log Received	
C	Geologist Report Received	
Distribution		
<u>X</u>	KCC	_____ SWD/Rep
_____	KGS	_____ Plug
_____		_____ NGPA
_____		_____ Other
(Specify)		

SIDE TWO

Operator Name OXY USA Inc. Lease Name Bonsall A Well # 4
 Sec. 22 Twp. 34S Rge. 35 East
 County Stevens West

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hollenberg	2660	338
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2679	319
		Krider	2708	290
		Winfield	2765	233
		Towanda	2818	180

List All E.Logs Run: Ran cased hole log

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	744	Class A	270	2% CC
Production	7 7/8"	5 1/2"	14	2921	Class A	270	2% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back ID				
<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)	Depth
2	2664-2720'	Acidized w/1000 gal.	
		7 1/2%	
		Frac'd w/1240 bbls.	

TUBING RECORD	Size <u>2 3/8"</u>	Set At <u>2921</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Pump Testing <u>10-27-97</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf <u>120 MCF</u>	Water Bbls.	Gas-Oil Ratio

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Other (Specify) _____

ORIGINAL

15-189-22217

Schlumberger

Dowell

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

Service Authorization

Job Number
20011639

Important- See other side for terms and conditions

ARRIVE LOCATION Date Time
8/12/97 2:00:00 AM

Service Instructions
Safely deliver & perform Surface Cement job with materials & equipment listed below. Per clients instructions.

Service Description
Cementing - Cem Surface Casing

AFE Rig
0 Cheyenne #3

County/Parish/Block Legal Location
Stevens Sec 22-34S-35W

Customer or Authorized Representative
Bill Owen

Invoice Mailing Address:
OXY USA INC

TULSA, OK 74102
US

Customer PO Contract
0 0

Well State/Province
BONSALL A-3 KS

Field
HUGOTON

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

Bill Owen

Signature of Dowell Representative

DUTTON JEFFREY

Thank you for Calling Dowell!

Schlumberger

Dowell

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

Service Order Receipt

19595
800 10580
900 23890

Job Number
20011639

ORIGINAL

Important- See other side for terms and conditions

Invoice Mailing Address:
OXY USA INC

TULSA, OK 74102
US

ARRIVE LOCATION	Date	Time
	8/12/97	2:00:00 AM
JOB COMPLETION	Date	Time
	8/12/97	11:00:00 AM

Service Instructions
Safely deliver & perform Surface Cement job with materials & equipment listed below. Per clients instructions.

Service Description
Cementing - Cem Surface Casing

Customer PO	Contract	AFE	Rig
0	0	0	Cheyenne #3
Well	State/Province	County/Parish/Block	Legal Location
BONSALL A-3	KS	Stevens	Sec 22-34S-35W
Field	Customer or Authorized Representative		
HUGOTON	Bill Owen		

Material	Description	Quantity	Unit	Unit Price	Amount
Services					
102871010	Casing Cmnt 501-1000' 1st 8hr	1	EA	\$940.00	\$940.00
59200002	Mileage, All Other Equipment	48	MI	\$3.15	\$151.20
49100000	Service Chg Cement Matl Land All DW Fur	285	CF	\$1.53	\$436.05
49102000	Transportation Cement Ton Mile	633	MI	\$1.12	\$736.96
59697000	PACR Treatment Analysis Recorder	1	JOB	\$179.00	\$179.00
Services Subtotal:					\$2,443.21

Products					
D903	Cement, Class C D903	270	CF	\$0.00	\$0.00
D079	Extender, Chemical D79	338	LB	\$1.56	\$527.28
D046	Antifoam Agent, All Purpose D46	23	LB	\$3.68	\$84.64
S001	Calcium Chloride 77% S1	508	LB	\$0.48	\$243.84
D029	Cellophane Flakes D29	68	LB	\$1.91	\$129.88
53003085	Insert, Orifice Fill	1	EA	\$396.00	\$396.00
56011085	Centralizer, Regular	4	EA	\$90.00	\$360.00
56702085	Plug, Cementing 8 5/8 In Top Plastic	1	EA	\$120.00	\$120.00
56008085	Basket, Cementing 8-5/8 In	1	EA	\$294.00	\$294.00
K232	Thread Locking Compound Kit K232	1	EA	\$31.00	\$31.00
Products Subtotal:					\$2,186.64

Overall Subtotal: \$4,629.85
Less Discount: \$1,388.96
Estimated Total: \$3,240.90

The estimated charges above are subject to correction by Dowell.

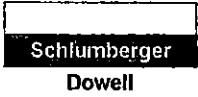
Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner	Signature of Customer or Authorized Representative <i>Bill Owen</i>	Signature of Dowell Representative <i>Jeffrey Dutton</i>
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Thank you for Calling Dowell!!

DUTTON JEFFREY

7555.65
5288.96

3090



Cementing Service Report

Customer OXY USA INC	Job Number 20011639
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Well BONSALL A-3		Location (legal) Sec 22-34S-35W		Dowell Location Ulysses, KS		Service Date 7/30/97			
Field HUGOTON		Formation Name/Type Surface		Deviation 0 °		Well MD 0 ft			
County Stevens		State/Province KS		BHP 0 psi		Well TVD 0 ft			
Rig Name Cheyenne #3		Drilled For Gas		Service Via Land		Casing/Liner			
Water Depth 0		Well Class 101		Well Type Development		Depth, ft 0			
Drilling Fluid Type Bentonite		Max. Density 9.2 lb/gal		Plastic Viscosity 34 cp		Size, in 8.63			
Service Line Cementing		Job Type Cem Surface Casing		Weight, lb/ft 24		Grade K55			
Max. Allowed Tubing Pressure 700 psi		Max. Allowed Ann. Pressure 0 psi		Wellhead Connection Single cement head		Thread 8RD			
Service Instructions Safely deliver & perform Surface Cement job with materials & equipment listed below. Per clients instructions. <div style="font-size: 2em; text-align: center; opacity: 0.5;">ORIGINAL</div>				Perforations/Open Hole		Depth			
				Top, ft		Bottom, ft		spf	
				0		0		0	
				0		0		0	
				0		0		0	
Treat Down		Displacement		Packer Type		Packer Depth			
Casing		46.7 bbl		None		0 ft			
Tubing Vol.		Casing Vol.		Annular Vol.		Open Hole Vol			
0 bbl		46.7 bbl		0 bbl		0 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: 299 psi				Shoe Type: Guide		Squeeze Type			
Pipe Rotated <input type="checkbox"/> Pipe Reciprocated <input type="checkbox"/>				Shoe Depth: 745 ft		Tool Type:			
No. Centralizers: 4 Top Plugs: 1 Bottom Plugs: 0				Stage Tool Type		Tool Depth: 0 ft			
Cement Head Type: Single				Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in			
Job Scheduled For: 8/12/97 2:00		Arrived on Location: 8/12/97 2:00		Collar Type: Auto-Fill		Tail Pipe Depth: 0 ft			
		Leave Location: 8/12/97		Collar Depth: 716 ft		Sqz Total Vol: 0 bbl			
Time	Density	Pressure U1	Pump	Rezero	Message				
24 hr clock	ppg	psi	bpm	bbl					
10:01	0	0	0	0	0	0	START ACQUISITION		
10:01	8.31	9.163	1398	233E-5	0	0			
10:02	8.31	1019	1495E-6	.2765	0	0			
10:02	8.31	1889	1858E-10	.2903	0	0			
10:02	0	0	0	0	0	0	Pressure Test Lines		
10:03	8.31	19.03	4097E-5	.3003	0	0			
10:04	8.31	9.164	.1443	.3523	0	0			
10:04	7.658	77.11	4.467	1.515	0	0			
10:05	8.099	94.19	4.623	4.125	0	0			
10:05	0	0	0	0	0	0	Start Mixing Lead Slurry		
10:05	0	0	0	0	0	0	[CumVol]=6.521 bbl		
10:05	0	0	0	0	0	0	Reset Volume		
10:05	11.06	126.9	4.784	6.842	0	0			
10:06	10.89	154.9	5.538	9.683	0	0			
10:06	11.27	157	5.552	12.86	0	0			
10:07	10.85	151.6	5.586	16.03	0	0			
10:08	11.45	161.9	5.545	19.2	0	0			
10:08	11.24	152.9	5.564	22.37	0	0			
10:09	11.01	151.3	5.558	25.55	0	0			
10:09	11.08	151.8	5.566	28.71	0	0			
10:10	10.94	150.7	5.555	31.89	0	0			

Well		Field			Service Date		Customer		Job Number
BONSALL #A-3		HUGOTON			7/30/97		OXY USA INC		20011639
Time	Density	Pressure U1	Pump	Razoro				Message	
24 hr clock	ppg	psi	bpm	bbf					
10:10	11.47	155.5	5.538	35.05	0	0	0		
10:11	11.12	150.7	5.543	38.21	0	0	0		
10:12	11.14	148.1	5.546	41.38	0	0	0		
10:12	11.19	148.1	5.546	44.55	0	0	0		
10:13	11.08	144.1	5.545	47.71	0	0	0	ORIGINAL	
10:13	11.05	142	5.546	50.87	0	0	0		
10:14	11.08	142	5.538	54.04	0	0	0		
10:14	11.06	142.1	5.55	57.2	0	0	0		
10:15	11.05	144.1	5.542	60.36	0	0	0		
10:16	11.17	145.7	5.538	63.52	0	0	0		
10:16	10.96	144.3	5.548	66.69	0	0	0		
10:17	11.13	146.9	5.552	69.84	0	0	0		
10:17	13.2	90.13	3.926	72.81	0	0	0		
10:17	0	0	0	0	0	0	0	[CumVol]=66.6 bbl	
10:17	0	0	0	0	0	0	0	Reset Volume	
10:18	0	0	0	0	0	0	0	End Tail Slurry	
10:18	15.09	114.6	3.767	74.97	0	0	0		
10:18	14.87	220.1	5.495	77.79	0	0	0		
10:19	14.9	212	5.517	80.94	0	0	0		
10:20	15	230.1	5.51	84.08	0	0	0		
10:20	15.03	225.3	5.503	87.22	0	0	0		
10:21	15.23	229	5.474	90.35	0	0	0		
10:21	14.71	217	5.527	93.49	0	0	0		
10:22	14.9	218	5.514	96.64	0	0	0		
10:22	14.77	218.4	5.515	99.78	0	0	0		
10:23	14.73	215.3	5.524	102.9	0	0	0		
10:24	14.52	127.5	4.045	105.9	0	0	0		
10:24	0	0	0	0	0	0	0	[CumVol]=33.14 bbl	
10:24	0	0	0	0	0	0	0	Reset Volume	
10:24	0	0	0	0	0	0	0	Drop Top Plug	
10:24	0	0	0	0	0	0	0	Start Displacement	
10:24	13.72	9.202	1664E-6	106.5	0	0	0		
10:25	13.82	9.163	2068E-10	106.5	0	0	0		
10:25	13.88	9.163	2571E-14	106.5	0	0	0		
10:26	13.88	9.163	3195E-18	106.5	0	0	0		
10:26	13.89	9.163	3971E-22	106.5	0	0	0		
10:27	13.89	9.163	4936E-26	106.5	0	0	0		
10:28	13.89	9.163	6135E-30	106.5	0	0	0		
10:28	11.07	105.9	2.268	107.5	0	0	0		
10:29	8.583	101.5	2.429	110.3	0	0	0		
10:29	8.192	87.2	2.426	113.3	0	0	0		
10:30	8.189	80.17	2.406	116.2	0	0	0		
10:30	8.158	80.32	2.405	119.1	0	0	0		
10:31	8.152	78.73	2.404	122	0	0	0		
10:32	8.154	82.14	2.401	125	0	0	0		
10:32	8.203	94.48	2.395	127.9	0	0	0		
10:33	8.22	109.6	2.385	130.8	0	0	0		
10:33	8.227	129.4	2.395	133.7	0	0	0		
10:34	8.234	146	2.383	136.6	0	0	0		
10:34	8.237	186	4.856	139.6	0	0	0		
10:35	8.235	212.6	5.449	142.8	0	0	0		
10:35	0	0	0	0	0	0	0	Lower Pump Rate	
10:36	8.309	157.4	2.756	145.4	0	0	0		

Well		Field			Service Date		Customer		Job Number	
BONSALL #A-3		HUGOTON			7/30/97		OXY USA INC		20011639	
Time	Density	Pressure UI	Pump	Rezero				Message		
24 hr clock	ppg	psi	bpm	bbf						
10:36	8.317	162.5	2.16	146.6	0	0	0			
10:37	8.317	170.9	2.147	147.9	0	0	0			
10:37	8.315	179.6	2.129	149.1	0	0	0			
10:38	8.318	188.8	2.118	150.3	0	0	0			
10:38	8.31	193.9	2.095	151.5	0	0	0			
10:39	8.311	201.2	2.079	152.7	0	0	0			
10:40	8.31	483.3	2311E-6	153.1	0	0	0	ORIGINAL		
10:40	8.318	744.2	.1885	153.1	0	0	0			
10:41	8.318	706.2	235E-7	153.2	0	0	0			
10:41	8.318	9.287	2921E-12	153.2	0	0	0			
10:42	8.318	9.163	124E-5	153.2	0	0	0			
10:42	8.318	9.163	1513E-10	153.2	0	0	0			
10:43	8.318	9.163	1881E-14	153.2	0	0	0			
10:44	8.318	9.163	2338E-18	153.2	0	0	0			
10:44	8.318	9.163	2905E-22	153.2	0	0	0			
10:45	8.318	9.163	3611E-26	153.2	0	0	0			
10:45	8.317	9.163	4488E-30	153.2	0	0	0			
10:46	8.318	9.163	5578E-34	153.2	0	0	0			
10:46	0	0	0	0	0	0	0	Shutdown		
10:46	8.318	9.163	6933E-38	153.2	0	0	0			
10:47	0	0	0	0	0	0	0	End Job		

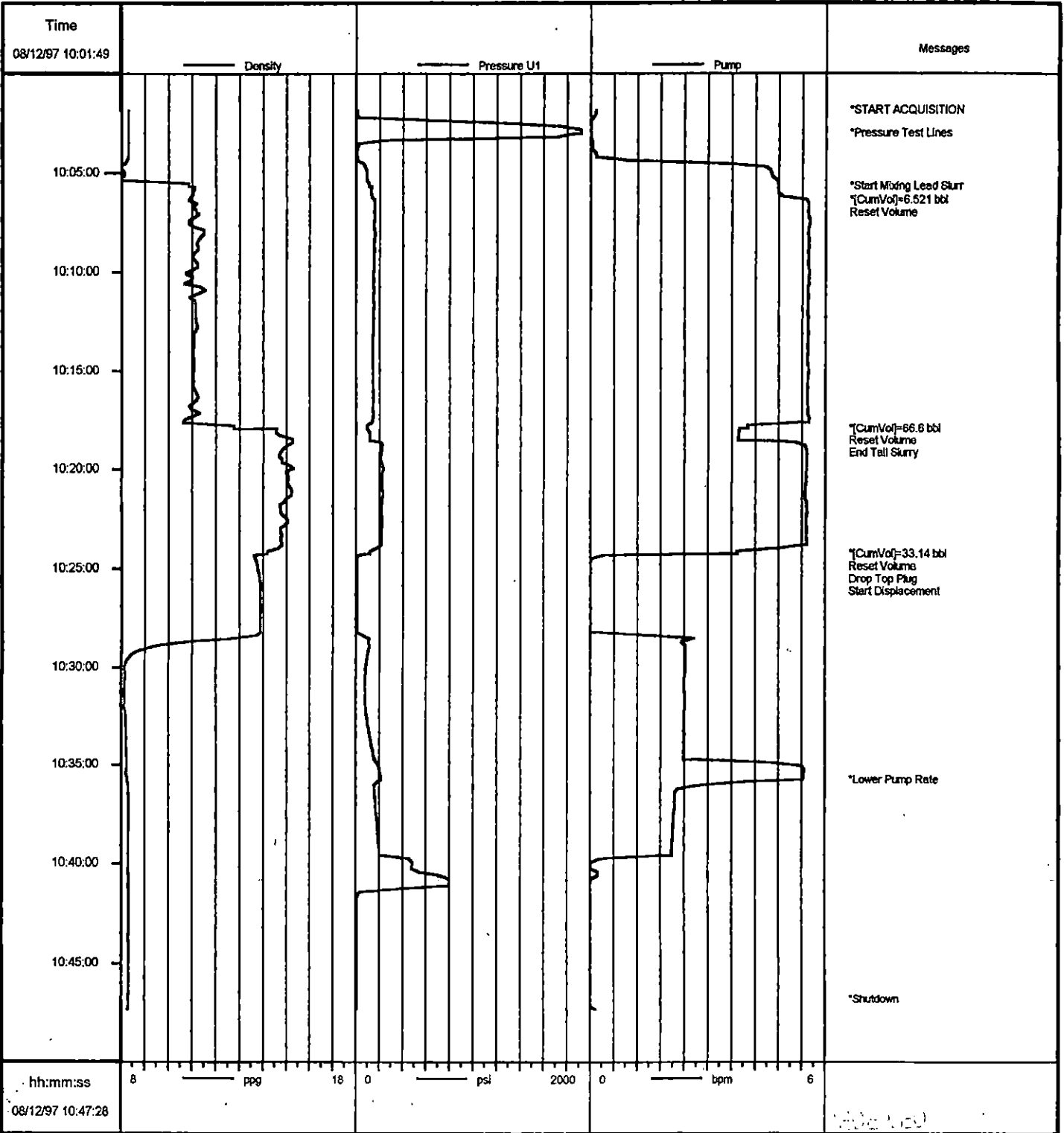
Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.5	0	0	5.5	104	0	0	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
0	0	0	0	0		555K 32 bbl 8 bbl	0 lb/gal bbl
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To 0 ft	
0 %	0 bbl	46.7 bbl					
Customer or Authorized Representative				Dowell Supervisor			
Bill Owen				DUTTON JEFFREY			
				<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

[Handwritten notes and signatures]

Well	Bonsall #A-3	Client	OXY USA
Field	Hugoton	SIR No.	20011639
Country	USA	Job Date	8/12/97 10:01:49 AM

ORIGINAL



Job: oxy11639

08/12/1997 15:30

* Mark of Schlumberger

10:47:28

ORIGINAL

15-189-22217

Schlumberger

Dowell

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

Service Authorization

Job Number
20011646

Important: See other side for terms and conditions

Invoice Mailing Address: OXY USA INC TULSA, OK 74102 US		ARRIVE LOCATION 8-15-97	Date 8-15-97	Time 0000
Service Instructions safely delever equipment and cement for 5 1/2 production casing as per custmer		Service Description Cementing - Cem Prod Casing		
Customer PO 0	Contract 0	AFE 0	Rig CHEYENNE WELL SERVICE 3	
Well BONSALL A-3	State/Province KS	County/Parish/Block Stevens	Legal Location	
Field HUGOTON	Customer or Authorized Representative bill owens			

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
Bill Owens
bill owens

Signature of Dowell Representative
Jeffrey Dutton
DUTTON JEFFREY

Thank you for Calling Dowell

*Perment. drill well
P.M. Wyke*

Schlumberger

Dowell

Dowell, A Division of Schlumberger Technology Corp.

204 S Missouri

Ulysses, KS

Service Order Receipt

20413
800 11746
900 26251

Job Number
20011646

Important: See other side for terms and conditions.

ARRIVE LOCATION	Date	Time
JOB COMPLETION	Date	Time

Invoice Mailing Address:
OXY USA INC

TULSA, OK 74102
US

ORIGINAL

Service Instructions

safely delever equipment and cement for 5 1/2 production casing as per custmer

Service Description

Cementing - Cem Prod Casing

Customer PO 0	Contract 0	AFE 0	Rig CHEYENNE WELL SERVICE 3
Well BONSALL A-3	State/Province KS	County/Parish/Block Stevens	Legal Location
Field HUGOTON	Customer or Authorized Representative bill owens		

Material	Description	Quantity	Unit	Unit Price	Amount
Services					
102871030	Casing Crmt 2501-3000' 1st 8hr	1	EA	\$1,560.00	\$1,560.00
59200002	Mileage, All Other Equipment	48	MI	\$3.15	\$151.20
49100000	Service Chg Cement Matl Land All DW Fur	285	CF	\$1.53	\$436.05
49102000	Transportation Cement Ton Mile	632	MI	\$1.12	\$707.84
59697000	PACR Treatment Analysis Recorder	1	JOB	\$179.00	\$179.00
Services Subtotal:					\$3,034.09
Products					
D903	Cement, Class C D903	270	CF	\$10.94	\$2,953.80
D079	Extender, Chemical D79	338	LB	\$1.56	\$527.28
D046	Antifoam Agent, All Purpose D46	23	LB	\$3.68	\$84.64
S001	Calcium Chloride 77% S1	508	LB	\$0.48	\$243.84
D029	Cellophane Flakes D29	68	LB	\$1.91	\$129.88
53003054	Insert, Orifice Fill	1	EA	\$286.00	\$286.00
56011054	Centralizer, Regular	10	EA	\$73.00	\$730.00
56702054	Plug, Cementing 5 1/2 In Top Plastic	1	EA	\$83.00	\$83.00
56008054	Basket, Cementing 5 1/2 In	1	EA	\$202.00	\$202.00
D827	Chemical Wash CW100 D827	420	GA	\$1.05	\$441.17
50101054	Shoe, Guide Cement Type 5 1/2 In	1	EA	\$190.00	\$190.00
K232	Thread Locking Compound Kit K232	1	EA	\$31.00	\$31.00
Products Subtotal:					\$5,902.61

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535

Schlumberger

Dowell

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

Service Order Receipt

Material	Description	Quantity	Unit	Unit Price	Amount
Overall Subtotal:					\$8,936.70
Less Discount:					\$2,681.01
Estimated Total:					\$6,255.69
The estimated charges above are subject to correction by Dowell.					
Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner	Signature of Customer or Authorized Representative		Signature of Dowell Representative		
	<i>Bill Owen</i>		<i>Jeffrey Dutton</i>		

DUTTON JEFFREY

Thank you for Calling Dowell!

ORIGINAL

8936.70
6255.69

30%

Wichita, Kansas



Cementing Service Report

Customer OXY USA INC	Job Number 20011646
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Well BONSALL A-3		Location (legal)		Dowell Location Ulysses, KS		Service Date 8/14/97			
Field HUGOTON		Formation Name/Type Shale		Deviation 0 °		Well MD 2,924 ft			
County Stevens		State/Province KS		BHP 0 psi		Well TVD 0 ft			
Rig Name VENNE WELL SERV		Drilled For Gas		Service Via Land		Fore Press. Gradient 0 psi/ft			
Water Depth		Well Class 101		Well Type Development		Casing/Liner			
Drilling Fluid Type		Max. Density 0 lb/gal		Plastic Viscosity 0 cp		Tubing/Drill Pipe			
Service Line Cementing		Job Type Cem Prod Casing		Depth, ft		Grade			
Max. Allowed Tubing Pressure 0 psi		Max. Allowed Ann. Pressure 0 psi		WellHead Connection Single cement head		Perforations/Open Hole			
Service Instructions safely delever equipment and cement for 5 1/2 production casing as per customer ORIGINAL		Depth, ft		Size, in		Weight, lb/ft			
		2924		5.5		14			
		0		0		0			
		2924		5.5		14		K55	
		0		0		0		8RD	
Top, ft		Bottom, ft		spf		No. of Shots			
0		0		0		0			
0		0		0		0			
0		0		0		0			
Treat Down Casing		Displacement 70.8 bbl		Packer Type		Packer Depth 0 ft			
Tubing Vol. 0 bbl		Casing Vol. 71.3 bbl		Annular Vol. 0 bbl		Open Hole Vol. 0 bbl			
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job			
LHR Pressure: 1724 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide			
No. Centralizers: 10		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 2925 ft			
Cement Head Type: Single		Job Scheduled For: 8/15/97 0:00		Arrived on Location: 8/15/97 0:00		Leave Location: 8/15/97			
Stage Tool Type		Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in		Tool Type:			
Collar Type: Auto-Fill		Collar Depth: 2903 ft		Sqz Total Vol: 0 bbl		Tool Depth: 0 ft			
Time		CumVol		Density		Pressure U1			
24 hr clock		bbl		ppg		psi			
						Pump			
						bpm			
						Message			
6:05		0		0		0			
6:05		2344E-6		8.272		-4.582			
6:05		8449E-5		8.272		-4.585			
6:06		.4437		8.287		457.6			
6:07		.4928		8.276		2256			
6:07		.4928		8.277		2156			
6:07		0		0		0			
6:07		0		0		0			
6:08		0		0		0			
6:08		1753E-12		8.272		2128			
6:08		1753E-12		8.272		43.75			
6:09		1517E-5		8.275		-1752E-8			
6:10		1.781		8.259		272			
6:10		5.185		8.256		279.5			
6:11		8.581		8.265		280.7			
6:11		0		0		0			
6:11		11.97		8.268		287.2			
6:12		15.38		8.155		287.5			
6:13		18.78		8.225		301.8			
6:13		0		0		0			
6:13		0		0		0			

Well		BONSALL #A-3				HUGOTON		Service Date	Customer	Job Number
								8/14/97	OXY USA INC	20011648
Time	CumVol	Density	Pressure Uf	Pump					Message	
24 hr clock	bbl	ppg	psl	bpm						
6:13	0	0	0	0	0	0	0	0	Start Mixing Lead Slurry	
6:13	1.6	11.66	356.1	5.62	0	0	0	0		
6:14	4.998	10.65	304.8	5.617	0	0	0	0		
6:14	8.416	11.08	240.1	5.669	0	0	0	0		
6:15	11.83	10.96	303.4	5.64	0	0	0	0		
6:16	15.22	10.85	283.4	5.604	0	0	0	0		
6:16	18.62	10.81	276.4	5.647	0	0	0	0		
6:17	22.04	10.9	262.5	5.662	0	0	0	0		
6:17	25.45	11.53	263.5	5.621	0	0	0	0		
6:18	28.85	11	241.6	5.669	0	0	0	0		
6:19	32.27	10.84	229.7	5.676	0	0	0	0		
6:19	35.7	11.04	225.6	5.654	0	0	0	0		
6:20	39.11	10.9	209	5.661	0	0	0	0		
6:21	42.54	10.89	196.2	5.672	0	0	0	0		
6:21	45.96	10.71	183.9	5.669	0	0	0	0		
6:22	49.39	10.76	165.9	5.653	0	0	0	0		
6:22	52.81	11.17	166.2	5.677	0	0	0	0		
6:23	56.24	10.35	138.1	5.694	0	0	0	0		
6:24	59.66	11.05	149.7	5.649	0	0	0	0		
6:24	63.08	10.91	148.8	5.699	0	0	0	0		
6:25	0	0	0	0	0	0	0	0	[CumVol]=65.66 bbl	
6:25	0	0	0	0	0	0	0	0	Reset Volume	
6:25	.757	13.27	171.3	5.643	0	0	0	0		
6:25	0	0	0	0	0	0	0	0	Start Mixing Tail Slurry	
6:25	4.125	14.37	153.8	4.792	0	0	0	0		
6:26	6.504	14.62	110	3.88	0	0	0	0		
6:27	8.852	14.98	109.6	3.877	0	0	0	0		
6:27	11.26	14.94	189.6	5.155	0	0	0	0		
6:28	14.63	15.1	223.1	5.612	0	0	0	0		
6:28	18.03	14.8	219.4	5.637	0	0	0	0		
6:29	21.43	14.83	227.7	5.619	0	0	0	0		
6:30	24.83	14.58	217.4	5.621	0	0	0	0		
6:30	28.23	14.2	205.1	5.666	0	0	0	0		
6:31	31.64	15.41	242.9	5.629	0	0	0	0		
6:31	35.05	14.89	251.3	5.641	0	0	0	0		
6:32	0	0	0	0	0	0	0	0	End Tail Slurry	
6:32	0	0	0	0	0	0	0	0	Reset Volume	
6:32	0	0	0	0	0	0	0	0	[CumVol]=35.8 bbl	
6:32	0	0	0	0	0	0	0	0	PAUSE ACQUISITION	
6:38	0	0	0	0	0	0	0	0	RESTART AFTER PAUSE	
6:38	7261E-7	8.394	1905E-5	2095E-14	0	0	0	0		
6:39	0	0	0	0	0	0	0	0	Start Displacement	
6:39	1.155	8.394	93.55	5.003	0	0	0	0		
6:40	4.621	8.394	117.8	5.839	0	0	0	0		
6:40	8.132	8.394	116.6	5.835	0	0	0	0		
6:41	11.63	8.394	116.1	5.794	0	0	0	0		
6:41	15.12	8.394	113	5.838	0	0	0	0		
6:42	18.63	8.394	114.4	5.825	0	0	0	0		
6:43	22.2	8.394	105.7	5.825	0	0	0	0		
6:43	25.71	8.38	102.2	5.833	0	0	0	0		
6:44	29.24	8.388	105.3	5.866	0	0	0	0		
6:44	32.77	8.384	101.9	5.844	0	0	0	0		
6:45	36.31	8.388	101.8	5.844	0	0	0	0		

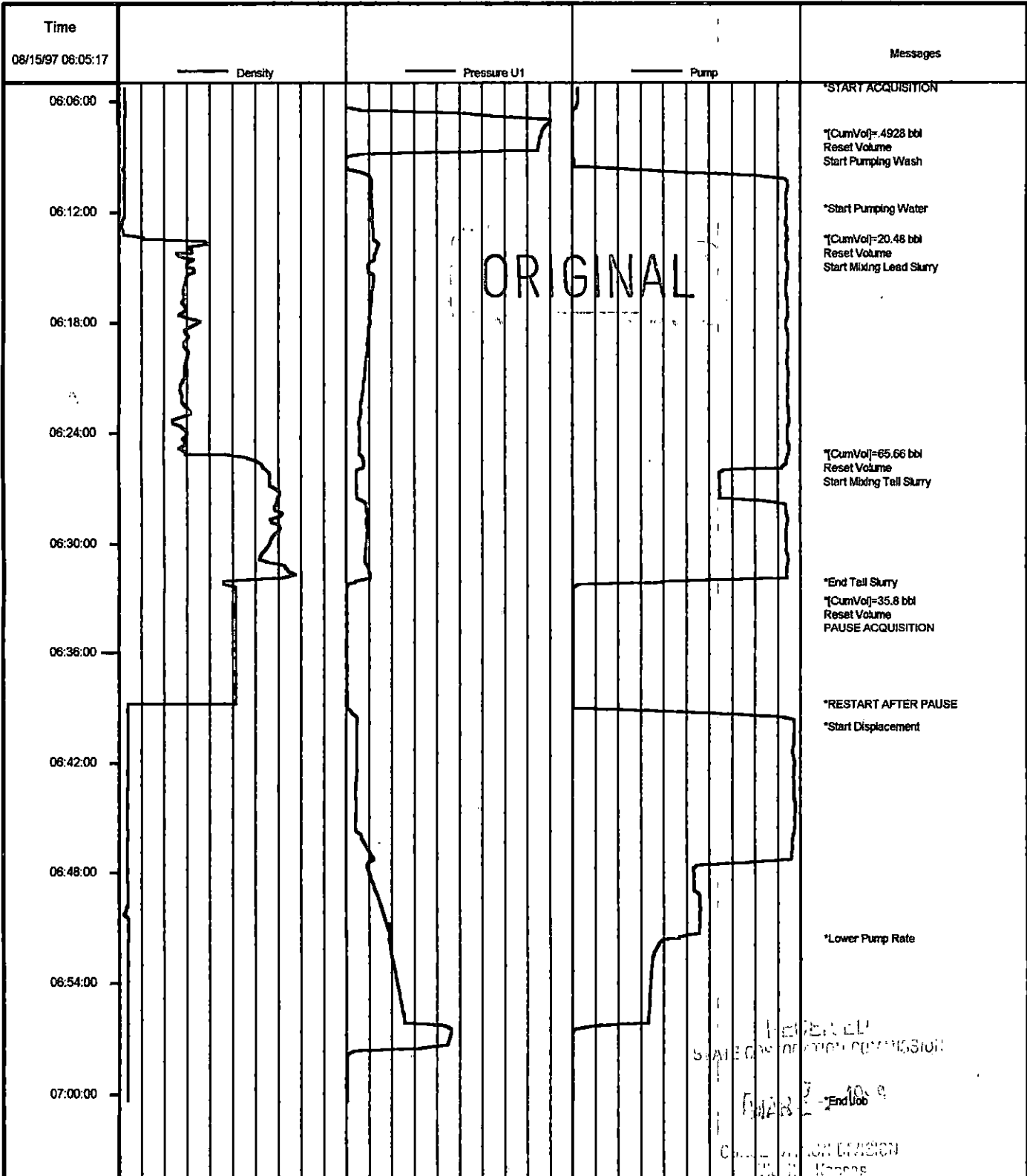
ORIGINAL

Well			HUGOTON			Service Date		Customer		Job Number	
BONSALL #A-3						8/14/97		OXY USA INC		20011646	
Time	CumVol	Density	Pressure UT	Pump					Message		
24 hr clock	bbl	ppg	psi	bpm							
6:46	39.82	8.393	163.6	5.793	0	0	0				
6:46	43.31	8.381	234.1	5.772	0	0	0				
6:47	46.78	8.374	306.8	5.741	0	0	0				
6:47	49.1	8.39	246.3	3.168	0	0	0				
6:48	51.02	8.388	285.1	3.197	0	0	0				
6:49	52.96	8.394	331.1	3.307	0	0	0		ORIGINAL		
6:49	54.96	8.396	371.9	3.336	0	0	0				
6:50	57	8.251	413.6	3.344	0	0	0				
6:50	59.02	8.425	452.8	3.34	0	0	0				
6:51	60.96	8.416	469.9	2.592	0	0	0				
6:51	0	0	0	0	0	0	0		Lower Pump Rate		
6:52	62.35	8.41	483.3	2.216	0	0	0				
6:52	63.65	8.41	507.6	2.111	0	0	0				
6:53	64.91	8.41	534.2	2.075	0	0	0				
6:53	66.16	8.41	556.4	2.062	0	0	0				
6:54	67.39	8.41	585.6	2.037	0	0	0				
6:55	68.62	8.405	605.7	2.029	0	0	0				
6:55	69.84	8.402	630.1	2.003	0	0	0				
6:56	70.91	8.402	1123	.3383	0	0	0				
6:56	70.93	8.402	1137	2473E-8	0	0	0				
6:57	70.93	8.406	389.1	1811E-12	0	0	0				
6:58	70.93	8.402	9.177	2226E-6	0	0	0				
6:58	70.93	8.406	9.163	2319E-8	0	0	0				
6:59	70.93	8.41	9.163	5488E-7	0	0	0				
6:59	70.93	8.409	9.163	4032E-11	0	0	0				
7:00	0	0	0	0	0	0	0		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	0		0	5	96	0	0	0	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density	
1137	1137	300	0	0		0 bbl		0 lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement	<input type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To 0 ft				
0 %		0 bbl		70.8 bbl					
Customer or Authorized Representative				Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
bill owens				DUTTON JEFFREY					

RECEIVED
 MAR 2 1999
 Page 3 of 3

Well	Bonsall #A-3	Client	OXY USA
Field	Hugoton	SIR No.	20011639
Country	USA	Job Date	8/15/97 6:05:17 AM

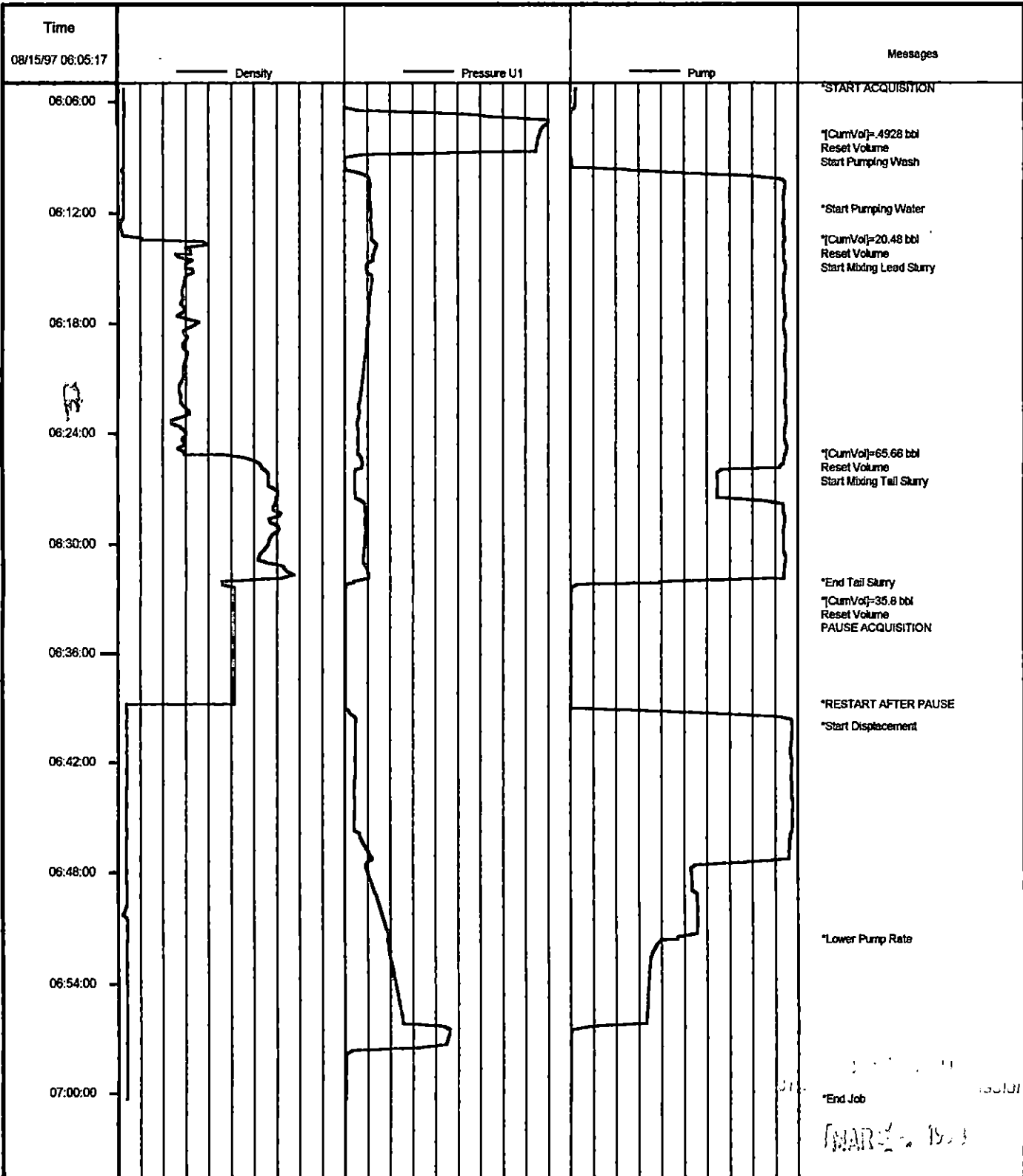


Job: oxy11639

REVIEWED
BY: [Signature]
DATE: 8/15/97
C. [Signature]
[Signature]

ORIGINAL

Well	Bonsall #A-3	Client	OXY USA
Field	Hugoton	SIR No.	20011639
Country	USA	Job Date	8/15/97 6:05:17 AM



Job: oxy11639

MAR 15 1998

CONCRETE WORK DIVISION
Wichita, Kansas