

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

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 300

City/State/Zip Tulsa, OK 74102

Purchaser: _____

Operator Contact Person: David D. Juby

Phone (.918) 561-3564

Contractor: Name: _____

License: _____

Wellsite Geologist: _____

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 PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

3.17.97 Spud Date 3.24.97 Date Reached TD 3.24.97 Completion Date

API NO. 15- 147-20574-00-00 ORIGINAL

County Phillips

Sec. 23 Twp. 5S Rge. 20

2190 Feet from S(N) (circle one) Line of Section

2170 Feet from E(W) (circle one) Line of Section

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

Lease Name Hansen C Well # 12W

Field Name Hansen

Producing Formation LKC

Elevation: Ground 2176 KB 2181

Total Depth 3605 PBTD 3584

Amount of Surface Pipe Set and Cemented at 362 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1661 Feet

If Alternate II completion, cement circulated from 1661

feet depth to surface w/ 310 sx cmt.

Drilling Fluid Management Plan AH-2, 1-22-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ 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 [Signature]

Title Sr. Engineering Technician Date 6/26/97

Subscribed and sworn to before me this 26th day of June, 19 97,

Notary Public Quetta J. Shwadlenak

Date Commission Expires August 21, 1996 July 23, 1998

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

Operator Name OXY USA Inc. Lease Name Hansen C Well # 12W
 Sec. 23 Twp. 5S Rge. 20 East County Phillips
 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 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	Topeka	3082	- 901
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Oread	2185	-1004
List All E.Logs Run:	High Resolution Induction Density/Neutron & Micro Log GR w/CCL	Heebner	3231	-1050
		Toronto	3254	-1073
		Lansing	3272	-1091
		Arbuckle	3536	-1355

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	14.75"	10.75"	K-55	362	Class A	360	3% CC .25# flocele
Production	9 7/8"	7"	K-55	3599	Mid-Con	205	2% CC 1/4# flocele
					Ea-2	225	

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 TD				
<input type="checkbox"/> Plug Off Zone				

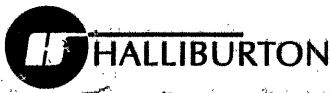
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	3459-63, 3440-42, 3428-31, 3399-3402	1900 gals. 15% Ne/Fe Az	3459/3280
	3360-65, 3340-44, 3326-30, 3306-11		
	3275-80		

TUBING RECORD		Size 2 3/8"	Set At 3403	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 5/1/97			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil 75	Bbls.	Gas 270	Mcf	Water 270
					Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented, submit ACO-18.) Other (Specify) _____



JOB SUMMARY

HALLIBURTON DIVISION MKS CONTRACTHALLIBURTON LOCATION HWS, KSBILLED ON TICKET NO. 196268WELL DATA 15-147-20574-00-00FIELD _____ SEC. 33 TWP. S6 RING. 20W COUNTY PHELPS STATE KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23	7"	KB	3598	
LINER						
TUBING						
OPEN HOLE			9 7/8	3598	3602	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
PERFORATOR BASKETS	4	MAWCO
FLOAT SHOE S-II	1	"
GUIDE SHOE		
CENTRALIZERS S-4	14	"
BOTTOM PLUG		
TOP PLUG PLUG SET	1	"
HEAD PC	1	"
PACKER DV TOOL	1	"
OTHER ROTATE HEAD	1	"

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 3-23	DATE 3-23	DATE 3-24	DATE 3-24
TIME 1700	TIME 2130	TIME 0200	TIME 1030

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
W. WILSON	B9377 39604 PFR	HWS, KS
R. WYER	H7187 532934	"
T. KOENIG	H7818 4444-5070 BULK	"
T. KOENIG	H7818 5122-7613 BULK	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____ GAL. _____ IN
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB 7" 2-STAGE LONGSTRING
 DV TOOL @ 1657' TOP ST # 45
 CENTRALIZERS - 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 45, 60, 76
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE [Signature]
 HALLIBURTON OPERATOR Wayne W. [Signature]
 COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	205	MARCON II		B	1/4 # FLOCCEL P/SK, 270cc	3.11	11.2
	225	EA-2	STD	B	10% CALSOL, 170cc, 10% SACT, 1/4 # FLOCCEL P/SK, 3/4 70 MARCON 322		
2	310	MARCON II		B	1/4 # FLOCCEL P/SK, 270cc	3.11	11.2

PRESSURES IN PSI

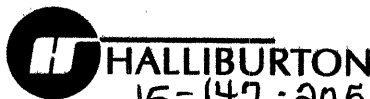
CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN-INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 37.16 REASON BAFFLE

SUMMARY

VOLUMES CUMULATIVE - DISCO
 PRESLUSH: BBL - 20 - 10 TYPE SUPERFLASH
 LOAD & BKDN: BBL - GAL. _____ PAD: BBL - GAL. _____
 TREATMENT: BBL - GAL. _____ DISPL: BBL - GAL. 140 - 65
 CEMENT SLURRY: BBL - GAL. 113.5 - 55.3 / 171.7
 TOTAL VOLUME: BBL - GAL. _____

REMARKS

SEE CEMENT - JOB LOG
THANK YOU



JOB LOG HAL-2013-C

15-147-20574-00-00

DATE 3-24-97 PAGE NO. 1

CUSTOMER OXY USA WELL NO. 12 LEASE MUSEW "C" JOB TYPE 7" LONGSTRING TICKET NO. 196268

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							CALLED OUT
	2130							ON LOCATION - DISCUSS JOB PROCEDURE
								BREAK CIRCULATION ROTATE
1	0205	6	20		✓	200		PUMP CUMFLEX II - DESO
		6	10		✓	200		PUMP SUPERFLUSH
		6	5		✓	200		PUMP H2O SPACER
	0218	6	168.8		✓	200		MIX CEMENT - 1ST STAGE
	0250							WASH OUT PUMP - LEWES STOP-ROTATE
	0251							RELEASE 1ST STAGE PLUG
	0255	7 1/2	0		✓	800		DISPLACE PLUG
	0316		140			1500		PLUG DOWN
	0318					1500		RELEASE PSE - HELD
	0320							DROP D.V. OPENING PLUG
								LOAD 2ND STAGE PLUG
	0328				✓	950		OPW D.V. TOOL
	0330							CONCRETE WELL - 4 HRS - 65 SEC CNT TO PRT
1	0800		4 1/2					PLUG BATHBLE - 10 SEC
	0806	7 1/2	171.7		✓	200		MIX CEMENT
	0832							WASH OUT PUMP - LEWES
	0833							RELEASE 2ND STAGE - CLOSING PLUG
	0837	6 1/2	0		✓	350		DEFURK PLUG
	0848		65.1			1600		PLUG DOWN - CONCRETE WELL - 4 HRS - 65 SEC CNT TO PRT
						1600		PSE UP CLOSE DV TOOL
	0851							RELEASE PSE HELD
								WASH UP
								RUCK UP
	1030							JOB COMPLETE

W. H. HES
 Keith Van Bort
 OXY USA Inc
 THANK YOU
 WAAK, RAY, TOM

CUSTOMER

15-147-20574-00-00

HALLIBURTON SUMMARY

HALLIBURTON LOCATION

1145 E. K3

BILLED ON TICKET NO.

196216

WELL DATA

FIELD _____ SEC 23 TWP. S2 RING. 20W COUNTY PHILLIPS STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	40.5	10 3/4	KA	362	
LINER						
TUBING						
OPEN HOLE			14 1/2	362	371	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>5-4 1.35</u>	<u>3</u>	<u>Howe</u>
BOTTOM PLUG		
TOP PLUG <u>wood</u>	<u>1</u>	<u>"</u>
HEAD <u>PC</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-17</u>	DATE <u>3-17</u>	DATE <u>3-17</u>	DATE <u>3-17</u>
TIME <u>1630</u>	TIME <u>1230</u>	TIME <u>3:00</u>	TIME <u>2300</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WILSON</u>	<u>B9377</u>	<u>39604</u>
	<u>PTAR</u>	<u>1145 E. K3</u>
<u>R. WITSE</u>	<u>H7197</u>	<u>532924</u>
	<u>BULK</u>	<u>"</u>
<u>D. REEDMAN</u>	<u>G1512</u>	<u>3287-7613</u>
		<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB 10 3/4" SURFACE

TOTAL PORE 373'

JOB DONE THRU: TUBING CASING ANNULUS TBS./ANN.

CUSTOMER REPRESENTATIVE X W. Wilson

HALLIBURTON OPERATOR W. Wilson

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL.
	<u>360</u>	<u>STANDARD</u>		<u>B</u>	<u>370 CC, 1/4" FLOXER P15X</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ FRESH UGH: BBL -GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL -GAL. _____ PAD: UDL -GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL -GAL. _____ DISPL: BBL -GAL. _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL -GAL. 75.7

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL -GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 15' REASON REQUESTED

REMARKS

SEE CHART - JOB LOG

THANK YOU

CUSTOMER: 1145 E. K3

LEASE: 1145 E. K3

WELL NO.: 12

JOB TYPE: 10 3/4" SURFACE

DATE: 3-17-96