

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

ORIGINAL

API NO. 15- 065-22724-00-00

County Graham

SE - NW - SE Sec. 34 Twp. 9S Rge. 25 X W

1420 Feet from S (circle one) Line of Section

1420 Feet from E (circle one) Line of Section

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

Lease Name Kuhn "A" Well # 8W

Field Name Emor

Producing Formation Lansing-Kansas City

Elevation: Ground 2546' KB 2551'

Total Depth 4121' PBDT 4078'

Amount of Surface Pipe Set and Cemented at 310 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 2216' Feet

If Alternate II completion, cement circulated from 2216'

feet depth to Surface w/ 475 sx cmt.

Drilling Fluid Management Plan ALT 2 J 2-25-94
(Data must be collected from the Reserve Pit)

Chloride content 2500 ppm Fluid volume 900 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled off

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rge.

County Docket No.

Operator: License # 5447

Name: OXY USA INC.

Address 110 S. Main #800

City/State/Zip Wichita, Kansas 67202

Purchaser:

Operator Contact Person: Stephen A. McDaniel

Phone (316) 265-5624

Contractor: Name: Abercrombie RTD, Inc.

License: #30684

Wellsite Geologist: Steve Davis - South Bay Oil

Designate Type of Completion

X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.

 Gas X ENHR SIGW

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

If Workover/Re-entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No. E-25,695

10-6-93 10-11-93 11-27-93

Spud Date Date Reached TD Completion Date

RECEIVED
KANSAS CORPORATION COMMISSION
12-9-93
Lic. No. 91993
CONSERVATION DIVISION
WICHITA, KSE/W

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 Carla J. Davis

Title ENGINEERING AIDE Date 12/9/93

Subscribed and sworn to before me this 9th day of DECEMBER, 19 93.

Notary Public Sheri A. Hininger

Date Commission Expires 8/27/96

K.C.C. OFFICE USE ONLY					
F	<input checked="" 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"/>	NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/>	Plug	<input type="checkbox"/>	Other (Specify)



Operator Name ROY, USA INC.

Lease Name Kuhn "A" Well # 8W

Sec. 34 Twp. 9S Rge. 25
 East
 West

County Graham

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.)

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
Topeka	3573'	(-1022)
Oread	3736'	(-1185)
Toronto	3812'	(-1261)
LKC	3826'	(-1275)

List All E.Logs Run:
 - Cement Bond Log
 - Array Induction Log
 - Compensated Neutron / Compensated Photo Density Log

CASING RECORD <input type="checkbox"/> New <input checked="" 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
(New) Surface Csg.	12-1/4"	8-5/8"	24#/ft.	310'	Class "A"	230	3% CC
(Used) Prod. Csg.	7-7/8"	4-1/2"	9.5#/ft.	4118'	50/50 Pozmix	400	2% Gel
					Standard	125	1% 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 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 JSPF	LKC 3962-68', 3984-92', 4006-12'	350 gals 15% MCA, 1000 gals 15% NE-FE	3962-4012'
		600 gals 15% NE-FE	4006-12'
		800 gals 15% NE-FE	3984-92'
		600 gals 15% NE-FE	3962-68'

TUBING RECORD Size 2-3/8" Set At 3942' Packer At 3942' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

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

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 3962-4012'



WELL DATA

FIELD _____ SEC. 34 TWP. 9S RNG. 25W COUNTY Graham 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 12 1/4" Hole TOTAL DEPTH 310'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>34.0</u>	<u>8 5/8"</u>	<u>KB</u>	<u>309.61</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>S.4 - 8 5/8"</u>	<u>3ea</u>	<u>Huro</u>
BOTTOM PLUG		
TOP PLUG <u>CP-1 - 8 5/8"</u>	<u>1ea</u>	<u>"</u>
HEAD		
PACKER		
OTHER		

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>10-6-93</u>	<u>10-6-93</u>	<u>10-6-93</u>	<u>10-6-93</u>
TIME <u>1815</u>	TIME <u>1820</u>	TIME <u>2015</u>	TIME <u>2015</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>S. D. Dike</u>	<u>40085</u>	<u>Oberlin Ks</u>
<u>J. Korman</u>	<u>3579 RCM HT-400</u>	<u>"</u>
<u>J. Alstrom</u>	<u>4118 Bulk</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 _____

GILLING AGENT TYPE _____ GAL.-LB. _____ IN _____

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

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cont. Serv.

DESCRIPTION OF JOB Cont. Serv.

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

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>230</u>	<u>Std</u>	<u>Reg</u>	<u>B</u>	<u>390CC, 1415 Flsck</u>	<u>1.18</u>	<u>15.6</u>

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 10 REASON Requested

SUMMARY

VOLUMES

PRESLUSH 4-160 GAL. TYPE _____

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 18

CEMENT SLURRY 48.3 GAL. _____

TOTAL VOLUME 70.3 GAL. _____

RAMARKS See Job Log + Chart

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MAR 01 1994

Thank You: Scott, Jerry + John

CONSERVATION DIVISION
 Wichita, Kansas



JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.	LEASE	JOB TYPE	TICKET NO.			
Oxy USA Inc		2	Kuhns A	Cmt Surf Casing	508010-2			
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1820							On line Rig Crew Circ Hole @ 312' T.D. - Set up Eq
								Start out of hole with Drill Pipe run 8 5/8" Casing - Centralizers on 1st, 2nd, 3rd collar
	2015							Casing on bottom - Rig up - Plug Container to Mud Pump
	2022							Break Circ - Rig Pump
	2030	4				200		Hack up to Pump Truck
	2031	5				200		St H ₂ O Ahead
	2032	6	4-H ₂ O			200		St 230 sls Sts. 370CC - 1/4 lb Floate
	2040	-	48-Cmt			-		Fin Cmt - Shut Down
	2042	5				-		Release Plug - St Displ
	2045	-	18-H ₂ O			150		Plug Down - Close Manifold
								5 Bbl Cmt Circ
								Job Complete
								Thank You
								Scott, Jerry, John

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CONSERVATION DIVISION Wichita, Kansas

CUSTOMER

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Oxy USA Inc		8		Kuhn "A" #8		Cmt Prod Cng		508011-9	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2030							On hoc. Rig Crew having Down Drill Pipe. Set up Eq	
	2200							Finish having down - Rig up to run 4 1/2" Cng	
	2300							Start Cng in hole. Insert vlv Float Shoe. Auto Fill Assy. Shut off Baffle in 1st collar Centralizer's on collar's #1-3-5-7-11-15-20-39-61-85, Cmt Bskt above 10 th , 39 th , 85 th collar's D.V. Tool on 60 th collar @ 2216'	
	0120							Drop Ball - 7 J's off bottom	
	0130							Cng on bottom. Rig up Rotating Head + Plug Container to Mud Pump	
	0145					850		Break Circ. Bell Thru - Rotate Cng	
	0340							Fin Circ. Hook up to Pump Truck	
	0345	5				200		Start 40 Bbl Salt Flush - 1sk Desco in 1 st 20 Bbl.	
	0353	"	40 Salt Flush			250		Start H2O Spacer	
		"	3-H2O			"		Start 500 Gal Mud Flush	
		"	12-Mud Flush			"		Start H2O Spacer - Take on H2O	
	0405	"	3-H2O			"		Start 400 sls 50/50 lb2-125 sl Std	
	0428	—	1187			—		Fin Cmt. Shut Down. Wash out pump & lines. Drop Shut-off plug	
	0431	6				—		St Displ. 30 Bbl H2O - 35 Bbl Orly Mud	
		"	36			250		Press Rate	
		"	60			"		"	
	0443	—	65			—		Plug Down. Holding	
	0445					—		Release Press - Holding	
	0450					—		Drop Opening Bomb - load Closing Plug - Wash up Truck	

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See Page 2

JOB LOG FORM 2013R-3

DATE 10-11-93 PAGE 2
TICKET NO. 508011-9

CUSTOMER Oxy USA Inc WELL NO. 8 LEASE Kuhn A JOB TYPE Cmt Prod Cng

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0508						1300	Open O.V Tool
	0510							Hook up to Mud Pump-Rig Circ
	0530							Mud Flush Circ to Pit
	0735							Fin Circ-Hook up to Pump Truck
	0738	5					200	Start H2O Ahead
		"	5 H2O					Start 475 sks HLC-4% AddGel- 14 lb Floxek
	0820		157 1/2					Fin Cmt Pump 1/2 Bbl H2O-Shut D
	0821	6	1 1/2 H2O					Release Plug-St Displ
		"	10-H2O				200	Cmt Circulating
	0828	—	35 H2O				1900	Plug Down-O.V. Closed-Holding
	0831						—	Release Press-Holding
	0833						2000	Press up-Holding
	0835						—	Release-Holding
								25 Bbl Cmt Circ.
								Job Complete
								"Thank You"
								Huro Crew
								Joseph [Signature]

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WICHITA, KS