

ORIGINAL

SIDE ONE

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 26100
Oklahoma City, OK 73126-0100
City/State/Zip _____
Purchaser: None (SW Disposal well)
Operator Contact Person: Raymond Hui
Phone (405) 749-2471
Contractor: Name: Red Tiger Drilling Co.
License: 5302
Wellsite Geologist: Paul Ramondetta

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

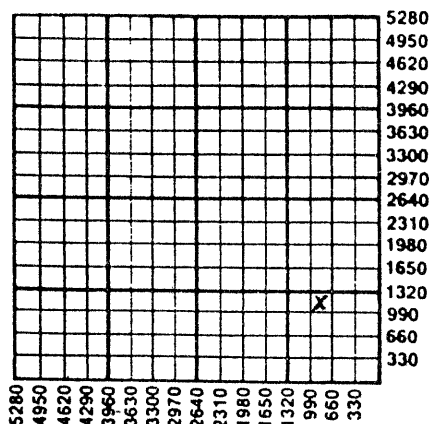
If **OWNO**: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
7-27-90 10-9-90 10-12-90
Spud Date Date Reached TD Completion Date

API NO. 15- 147-20516 00-00
County Phillips
approx. _____
NW SE SE Sec. 18 Twp. 5 Rge. 20 East West
1275 Ft. North from Southeast Corner of Section
710 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Kowitz Well # 2 D
Field Name Unnamed
Disposal _____
~~Producing~~ Formation Arbuckle

Elevation: Ground 2090 KB -
Total Depth 3865' PBDT (open hole completion)



Amount of Surface Pipe Set and Cemented at 362 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set DV Tool at 1642' Feet
If Alternate II completion, cement circulated from 1642
feet depth to 0 w/ 700 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Bryan Humphries
Title Engineering Manager Date 10-30-90
Subscribed and sworn to before me this 30th day of October 19 90.
Notary Public Ray Ann Kilmer
Date Commission Expires 4-16-94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)
RECEIVED
STATE CORPORATION COMMISSION
OCT 31 1990

10-31-90

SIDE TWO

Operator Name OXY USA, Inc. Lease Name Kowitz Well # 2 D
 Sec. 18 Twp. 5 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	Formation Description <input type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom Anhydrite 1632' TD 3865'
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Ran Guard Sidewall Neutron log from 3642' - 362'.		

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	17 1/2"	13 3/8"	48#	362'	C1.A	350	3% cc
Production	12 1/4"	8 5/8"	24 & 32#	3591'	*Pls refer to csg info below.		
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used) Depth			
OH	OH 3591-3865			Acidized OH w/10000 gal gal 15% NE/FE acid			3591-3865'
TUBING RECORD				Liner Run			
Size 5 1/2"		Set At 3568	Packer At 3568	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production 10-12-90	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) SW Disposal						
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.) Open Hole Perforation Dually Completed Commingled
 METHOD OF COMPLETION Other (Specify) _____ OH 3591-3865'

Production Csg Information: Cmt'd 1st stage cmt as follows: 200 sx C1.A + 1% HALAD. Cmt'd 2nd stage cmt as follows: Cmt'd w/650 sx, 12.7#/gal. light w/2% cc & 1/4#/sx flo; tailed in w/50 sx common w/2% cc.



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

A Halliburton Company

INVOICE NO. 904191 DATE 09/28/1990

WELL/LEASE NO./PLANT NAME: KOWITZ 2-D
WELL/PLANT LOCATION: PHILLIPS
STATE: KS
WELL/PLANT OWNER: OXY USA

SERVICE LOCATION: BERLIN
CONTRACTOR: RED TIGER DRILLING
JOB PURPOSE: CEMENT SURFACE CASING
TICKET DATE: 09/28/1990
ACCT. NO: 559167
CUSTOMER AGENT: JIM NOWELL
VENDOR NO: E-26
CUSTOMER P.O. NUMBER:
SHIPPED VIA: COMPANY TRUCK
FILE NO: 02424

OXY USA INC.
REGIONAL OFFICE
ATT: G. I. MCFARLAND
PO BOX 26100
OKLAHOMA CITY, OK 73126-0100

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	55	MI	2.35	129.25
001-016	CEMENTING CASING	358	FT	480.00	480.00
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	13	3/8 IN	131.00	131.00
504-308	STANDARD CEMENT	350	SK	6.75	2,362.50
509-406	ANHYDROUS CALCIUM CHLORIDE	13	SK	25.75	334.75
507-210	FLOCELE	88	LB	1.30	114.40
500-207	BULK SERVICE CHARGE	376	CFT	1.10	413.60
500-306	MILEAGE CMTG MAT DEL OR RETURN	935.41	TMI	.75	701.56

INVOICE SUBTOTAL 4,667.06

DISCOUNT-(BID) 20%
INVOICE BID AMOUNT 3,733.65

*-KANSAS STATE SALES TAX 133.51
*-DECATUR COUNTY SALES TAX 31.42

91572208 X 2420.1/724

32

006

BB

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$3,898.56

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHER OF LAW OR CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

FORM 1900-R PAGE: 1

ORIGINAL

FORM 1808 (7-11)

WELL NO. - FARM OR LEASE NAME Kovitz "A" - 2 SWD	COUNTY Phillips	STATE Ks	CITY / OFFSHORE LOCATION Phillips	DATE 10/8/80
CHARGE TO Oxy USA	OWNER Oxy USA	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	LOCATION 1 Oberlin Ks	
CONTRACTOR Red Tiger Drilling	DELIVERED TO S. Hoggan Ks	LOCATION 2	CODE 2552	
WELL TYPE 11-Drilling	WELL CATEGORY 01-Development	WELL PERMIT NO. B-822192	ORDER NO.	REFERRAL LOCATION
TYPE AND PURPOSE OF JOB 035 Cement Prod. Cng.				

As consideration, the above-named Customer agrees to pay Halliburton in accordance with the rates and terms stated in Halliburton's current price book, payable NET by the 15th of the following month or 15 days after the date of invoice, upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is rendered. Interest shall be assessed at the rate of 18% per annum, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all reasonable costs and fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any event shall be limited to the replacement or repair of such products, supplies or materials, or the allowance to the customer of credit for the cost of such products, supplies or materials, in the event such Halliburton or its subcontractors are unable to repair or replace such products, supplies or materials.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE-25A1	55				2.40	129.00
001-013	001-016			Pump Chg-1st Stage	3592	A	8	hr		1145.00
001-161				Pump Chg-2nd Stage	1643	A	8	hr		950.00
12A	825.217	1		Reg Guide Shoe	1	ea	885	lb		885.00
24A	815.1950	1		Insert Flt Valve	1	ea	885	lb		885.00
27	815.1943	1		Auto Fill Assy	1	ea	885	lb		885.00
40	807.93059	1		S-4 Centralizer	8	ea	885	lb	53.75	430.00
71	813.3110	1		Multi-Stage Contr	1	ea	885	lb		885.00
75	813.16682	1		D.V Plug Set	1	ea	885	lb		885.00
320	800.8888	1		Cmt Basket	2	ea	885	lb	12.50	25.00
350	890.10802	1		Howco Weld A	2	ea	1	lb	11.00	22.00
509-968		1		Sanded S.H	6	ea	50	lb	.10	30.00

ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-822192** SUB TOTAL **9959.91**

WAS ORDER MADE BY COMPUTER?

WAS ORDER MADE BY TELEPHONE?

WAS ORDER MADE BY PERSONAL REPRESENTATIVE?

CUSTOMER OF THIS AGENT (PLEASE PRINT) **Red Tiger Drilling**

CUSTOMER SIGNATURE **[Signature]**

HALLIBURTON OPERATOR **[Signature]**

HALLIBURTON APPROVAL **[Signature]**

CUSTOMER **[Signature]**

APPLICABLE TAXES WILL BE ADDED ON INVOICE

WELL DATA

ORIGINAL

SEC. 18 TWP. S5 RND. 20w COUNTY Phillips STATE KS

CUSTOMER

Oxy USA

Kaufz, A.

2500

Cm Prod Gng

10/8/80

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 **O.V. Tool** SET AT **1645'**
 BOTTOM HOLE TEMP _____ PRESSURE _____
 MISC. DATA **12 1/4" Hole** TOTAL DEPTH **3540'**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	32.24	8 5/8"	KC	3592	
LINER						
TUBING						
OPEN HOLE						SHOT/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR Insect Fill Valve	1ea	Howco
FLOAT SHOE Auto Fill Assy	1ea	
GUIDE ROOP Sa	1ea	
CENTRALIZERS Sa	8ea	
BOTTOM PLUG		
TOP PLUG O.V. Plug Set	1ea	
HEAD Howco DWD H	1ea	
PACKER O.V. Tool	1ea	
OTHER Cant Seal	2ea	

JOB DATA

CALLER/OUT	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
10/18/90	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90	10/18/90
0545	1400	1800	1800	1800	1800	1800	1800	1800

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
S. Oman	35504	Oberlin
J. Brown	P.U. 1400	
M. Vega	18	
	Bulk Field	
	Sup	
	Bulk	
	Cm Prod Gng	

CEMENT DATA

DATE	CEMENT	WATER	ADDITIVE	REMARKS

OCT 31 1990

Low Chart

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO.

904243

Location: Oberlin, Ks

DATE 10/8/90

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Oxy USA (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2 SWD LEASE Kowitz "A" SEC. 18 TWP. 5S RANGE 20W

FIELD COUNTY Phillips STATE Ks OWNED BY Oxy USA

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, NEW DEPTH, WEIGHT, DUES, FROM, TO, MAX. ALLOW. P.S.I.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

WARRANTY THE WELL IS IN PROPER CONDITION TO RECEIVE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES.

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As per... named Customer agrees. At the... record with the rates and terms stated in Halliburton's current price lists. Customer shall be responsible for and secure Halliburton against any liability for damage to property of Customer and of the well owner...

HAVE READ AND UNDERSTAND THIS CONTRACT AND SIGN THAT I AM EMPLOYED TO SIGN THE SAME AT OXY USA

DATE 10/8/90

TIME	RATE (HRS)	VOLUME (GAL)	PURCH		DISBURSE (GAL)		DESCRIPTION OF WORK DONE AND MATERIALS
			T	C	FUEL	OTHER	
1400							On hoc Rig Crew Start out with
1415							Drill Pipe Set up E
1800							Drill Pipe in derrick - Rig up to run 8 5/8" Cng
							Start Cng in hole, Reg Guide Shoe 1" Nipple collar, Insert Float Valve Auto Fill Assy in collar, Dr. Ball 1st collar up, Controlbers on 1 1/2", 5", 7", 9", 11", 14", 17", 19", collar, Cmt Bsk's above 1 1/2" & 4 1/2" collar, D.V. tool on 4 1/2" collar @ 1645, Ran 38 St's 32 lb 8 5/8" Cng on bottom, Remainder 24 lb Cng, 1 St 32 lb Cng on Top,
2110							Drop Ball, 7 St's off bottom
2130							Cng on bottom, Rig Down Tongs, Rig up Plug Container to Mud Pump
2145							Break Circ - Circulate for 2 hrs
2245							Finish Circ - Set Cng collar 3' below G.L.
0008	7					300	St 20 Rbl Salt H ₂ O / 1 St Desic 20 Rbl Salt H ₂ O, 2 Rbl Fresh H ₂ O
0012	6	43					Finish Flush, St 200 St's Std, 1 1/2" H-322, 1/4 lb Flake
0020	-	42				-	For Cmt - Shut Down - Wash out Pumps + lines, Drop D.V. Shut off Plug
0003	7					125	St Disol H ₂ O
0038	"	108				150	Finish H ₂ O - St Daily Mud
0057	-	231				1400	Plug Down - Shut Down
0102						1400	Cng Holding - Release Press
						1400	Coming back - Close Valve

See Page 2

LOG

WELL NO. _____

CUSTOMER

Oxy USA

ORIGINAL

PAGE NO.

2 of 2

JOB TYPE

Cent 8 1/8" Prod. Cing.

DATE

10/9/80

2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0106						1400	Press up - Cing Holding
	0108							Release Press - Coming Back
	0109						400	Close Valve
	0110						1700	Press up - Hold
	0112							Close Valve
	0115						500	Press up - Hold
	0118						1000	Open
	0120							Hold
	0122							Open
	0124	14						Press up
	0127		914				1000	Open
	0130							Hold
	0135							Press up
	0138	6						Hold
	0141	6						Press up
	0145							Hold
	0150	3					150	Press up
	0155	6					1000	Release Casing Plug St
	0200	6h	15450					Hold
	0205		10450				2000	Press down
	0210						2000	Hold
	0215						0	Hold
								"TS Bad Casing Cing"
								Job Complete
								Thank You
								Scott, Terry, Kent, Jack, John, Jerry

OCT 31 1980

CUSTOMER