

# ORIGINAL

SIDE ONE

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

API NO. 15- 129-21048 66-00

County Morton

CNW NW SE/4 Sec. 22 Twp. 34s Rge. 42  East  West

2310 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

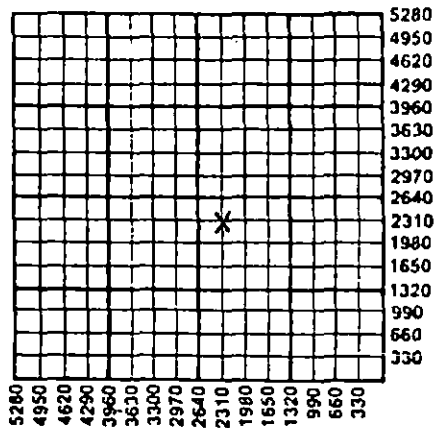
Lease Name Federal A Well # 1-22

Field Name Wildcat

Producing Formation Morrow

Elevation: Ground 3490 KB 3501

Total Depth 4952 PBDT 4912'



*AIT*

Amount of Surface Pipe Set and Cemented at 1514' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set DV Tool at 2980' Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Operator: License # 5447

Name: OXY USA, Inc.

Address P. O. BOX 26100

Oklahoma City, OK 73126-0100

City/State/Zip \_\_\_\_\_

Purchaser: None (Well is TA'd)

Operator Contact Person: Raymond Hui

Phone (405) 749-2471

Contractor: Name: Exeter Drilling Company

License: 3098' STATE CORPORATION COMMISSION

Wellsite Geologist: Andy Howell

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Methods:

Mud Rotary  Air Rotary  Cable

9-27-90 10-13-90 1-25-91  
Spud Date Date Reached TD Completion Date

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 Vic Tumlinson

Title Operations Drilling Manager Date 2-26-91

Subscribed and sworn to before me this 26th day of February, 19 91.

Notary Public Kay 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)

- SIDE TWO

Operator Name OXY USA, Inc. Lease Name Federal A Well # 1-22

Sec. 22 Twp. 34S Rge. 42  East  West  
 County Morton

**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 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	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">Formation Description</th> </tr> <tr> <td></td> <td align="center"><input checked="" type="checkbox"/> Log</td> <td align="center"><input type="checkbox"/> Sample</td> </tr> <tr> <th>Estimated Name</th> <th>Top</th> <th>Bottom</th> </tr> <tr> <td>BCA</td> <td align="center">1308</td> <td></td> </tr> <tr> <td>Topeka</td> <td align="center">2839</td> <td></td> </tr> <tr> <td>Heebner</td> <td align="center">3155</td> <td></td> </tr> <tr> <td>Winter Marmaton</td> <td align="center">3521</td> <td></td> </tr> <tr> <td>Marmaton</td> <td align="center">3805</td> <td></td> </tr> <tr> <td>Morrow</td> <td align="center">4291</td> <td></td> </tr> <tr> <td>TD</td> <td></td> <td align="center">4952</td> </tr> <tr> <td>PBTD</td> <td></td> <td align="center">4912</td> </tr> </table>	Formation Description				<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample	Estimated Name	Top	Bottom	BCA	1308		Topeka	2839		Heebner	3155		Winter Marmaton	3521		Marmaton	3805		Morrow	4291		TD		4952	PBTD		4912
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Ran BHC Sonic log; Dual Induction log.  
 TOC at 4369'

**CASING RECORD**  New  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#	1514'	C1.C	650	6% gel
Production	7 7/8"	5 1/2"	14#	4952'	*Pls refer to csg	info listed	below.

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Depth	
4	4409-4412'	Not Treated	
	4417-4420' (Squeezed w/75 sx cmt)		

<b>TUBING RECORD</b>	Size <u>2 3/8"</u>	Set At <u>4359'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production well is TD'd	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) Well is TA'd
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 100 Production Interval 4409-4412'  
 Other (Specify)

\*Production Csg. Info: Cmt'd 1st stage as follows: 165 sx Cl.H Poz., followed by 275 sx 50/50 Cl.H, containing 1/2% HALAD-9. Cmt'd 2nd stage as follows: Pumped 500 sx Cl.C cmt containing 1/4#/SX Flo.

ORIGINAL HALLIBURTON SERVICES

P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

A Halliburton Company

INVOICE NO.	DATE
014448	10/05/1990

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
FEDERAL A 1-22	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	EXETER	CEMENT PRODUCTION CASING	10/05/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
659167	CARROLL M. WYLIE	E-26	
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			03654

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	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	40	MI	2.35	94.00
007-013	MULT STAGE CEMENTING-1ST STAGE	4952	FT	1,260.00	1,260.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	950.00	950.00
26	INSERT VALVE F. S. - 4 1/2"	1	EA	223.00	223.00
847.6316					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19311					
40	CENTRALIZER 5-1/2" MODEL S-4	10	EA	44.00	440.00
807.93022					
66	FASGRIP LIMIT CLAMP 5 1/2"	1	EA	11.30	11.30
807.64031					
71	MULT STAGE CMTR-5-1/2" BRD	1	EA	2,450.00	2,450.00
813.80300					
75	PLUG SET 5 1/2"	1	EA	400.00	400.00
812.0162					
320	CEMENT BASKET 5 1/2"	1	EA	90.00	90.00
800.8883					
594	4 1/2" LATCH DOWN BAFFLE	1	EA	114.00	114.00
801.03734					
595	LATCH-DOWN SHUTOFF PLUG 5 1/2"	1	EA	345.00	345.00
812.01695					
350	HALLIBURTON WELD-A	2	LB	11.00	22.00
890.10802					
504-043	PREMIUM CEMENT	135	SK	6.85	924.75
506-105	POZMIX A	135	SK	3.91	527.85
506-121	HALLIBURTON-GEL 2X	5	SK	.00	N/C
504-118	HALLIBURTON LIGHT CEMENT -PREM	165	SK	6.16	1,016.40
504-120	HALL. LIGHT -PREMIUM PLUS	500	SK	6.29	3,145.00
507-210	FLOCELE	234	LB	1.30	304.20

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

# ORIGINAL HALLIBURTON SERVICES

INVOICE



INVOICE NO.	DATE
014448	10/05/1990

WELL/LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
FEDERAL A 1-22	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	EXETER	CEMENT PROTECTION CASING	10/05/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
659167	CARROLL M. WYLIE	E-26	
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			03654

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

9-1572137 x 2360.1/724 WOS10-29

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
507-665	HALAD-9	113	LB	6.65	751.45
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	26.25	131.25
509-968	SALT	1552	LB	.09	139.68
500-207	BULK SERVICE CHARGE	983	CFT	1.10	1,081.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	1735.180	TMI	.75	1,301.39
INVOICE SUBTOTAL					15,752.57
DISCOUNT - (BID)					2,362.84
INVOICE BID AMOUNT					13,389.73
*-KANSAS STATE SALES TAX					480.79
*-SEWARD COUNTY SALES TAX					113.16
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$13,983.68

RECEIVED  
STATE CORPORATION COMMISSION  
MAR - 4 1991  
CONSERVATION DIVISION  
Wichita, Kansas

53  
SM  
WRS  
006

AFFIX JOB TKT

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 HIGHEST LAWFUL 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.

**ORIGINAL**  
**HALLIBURTON SERVICES**

**INVOICE**

A Halliburton Company

INVOICE NO.	DATE
014334	10/03/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
FEDERAL 1-22		MORTON		KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL		EXETER DR LG #2	CEMENT SURFACE CASING		09/29/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
659167	CARROLL M WYLIE III	E-26		COMPANY TRUCK	02729	

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

9-1572137x 2360.1/724 was 10-16

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
<b>PRICING AREA - MID CONTINENT</b>					
000-117	MILEAGE	41	MI	2.35	96.35
		1	UNT		
001-016	CEMENTING CASING	1518	FT	945.00	945.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	8 5/8	IN	92.00	92.00
		1	EA		
12A	GUIDE SHOE - 8 5/8" 8RD THD.	1	EA	188.00	188.00
825.217					
24A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	171.00
815.19502					
27	FILL-UP UNIT 7"- 8 5/8" RECEIVED	1	EA	29.00	29.00
815.19414	STATE CORPORATION COMMISSION				
40	CENTRALIZER 8-5/8" MODEL S-4	16	EA	53.00	848.00
807.93059	MAR - 4 1991				
350	HALLIBURTON WELD-A	1	LB	11.00	11.00
890.10802	CONSERVATION DIVISION				
504-050	PREMIUM PLUS CEMENT	125	SK	7.08	885.00
504-120	HALL. LIGHT -PREMIUM PLUS	525	SK	6.29	3,302.25
507-210	FLOCELE	175	LB	1.30	227.50
509-406	ANHYDROUS CALCIUM CHLORIDE	11	SK	26.25	288.75
500-207	WELL SERVICE CHARGE	684	CFT	1.10	752.40
500-206	MESSAGE CHRG MAT DEL OR RETURN	1198.840	TMI	.75	899.13
	INVOICE SUBTOTAL				8,735.38
	DISCOUNT-(BDD)				1,310.28-
	INVOICE BID AMOUNT				7,425.10
	-KANSAS STATE SALES TAX				277.94
	-SEWARD COUNTY SALES TAX				65.39
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$7,768.43

**AFFIX JOB TKT 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 HIGHEST LAWFUL 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.