

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: CITGO

Operator Contact Person: Raymond Hui

Phone (405) 749-2471

Contractor: Name: Red Tiger Drilling Company

License: 5302'

Wellsite Geologist: Bill Keller

Designate Type of Completion

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

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

11-6-90 11-12-90 1-12-91

Spud Date Date Reached TD Completion Date

API NO. 15- 147-20522 00-00

County Phillips

CSE/4 NW/4 NE/4 Sec. 32 Twp. 5S Rge. 20 East West

4290 Ft. North from Southeast Corner of Section

1650 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

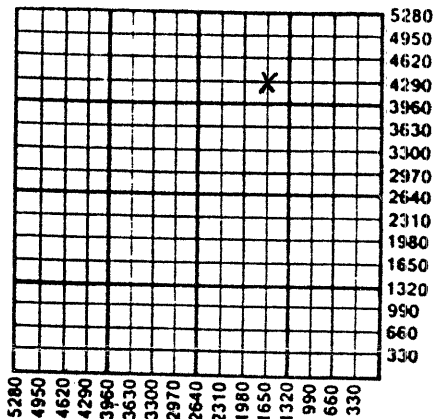
Lease Name Ray C Well # 5

Field Name Ray

Producing Formation Reagan

Elevation: Ground 2201 KB 2206

Total Depth 3657 PBDT 3633'



Amount of Surface Pipe Set and Cemented at 353' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set DV tool at 1740' Feet

If Alternate II completion, cement circulated from 1740

feet depth to 0 w/ 400 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 Vic Tumlinson

Title Operations Drilling Manager Date 2-6-91

Subscribed and sworn to before me this 6th 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 Ray C Well # 5
 Sec. 32 Twp. 5S Rge. 20 East West
 County Phillips

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.)

Ran Dual Induction Laterlog Spectral Density,
 Dual Spaced Neutron II Log and Microlog.

Name	Formation Description	
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
	Top	Bottom
Topeka	3163	
Heebner	3312	
Toronto	3334	
LKC	3353	
Basil Penn	3360	
Reagan	3596	
Granite Wash	3620	
TD		3657
PBTD		3635

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#	353'	C1.A	250	3% cc
Production	7 7/8"	5 1/2"	15.5#	3655'	*Pls refer to data 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	3595-3598	Not Treated	

TUBING RECORD			
Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2 7/8"	3598		

Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
1-8-91							
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	22	-	864				

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perforation Dually Completed Commingled Other (Specify) _____ Production Interval 3595-3598'

*Prod. csg & cement data: Cemented 1st stage w/175 sx. Cemented top stage w/400 Howco light w/1/4#/sx.

ORIGINAL

January 25, 1991

CHRONOLOGICAL WELL REPORT

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OXY USA INC., RAY "C" #5
PHILLIPS, KS WSN: 1303498

- 11/7/90 PR OPNS: DRILLING;
MD 358; DRLD(MD) 358; DSS 1; DOL 1; *** FIRST REPORT ***;
MW 8.8; FV 26; PH 7; CHL 300; SLD % 1; CASING 8.625;
@ 353; DEV MD 358; ANGLE 0.5;
ACTIVITY SUMMARY:
* AFE TO DRILL DEVELOPMENT WELL * RU RED TIGER RIG #2.
SPUDED 12-1/4" HOLE AT 10:00 AM 11/6/90. DRILLED TO 358'.
SHORT TRIPPED BIT. RAN BACK TO BOTTOM. CIRCULATED. POOH
W/ COLLARS. RIH W/ 8 JTS 8-5/8", 24#, K-55, "A"-GRADE
CASING (347') TO 358'. SET 2' BELOW GROUND LEVEL. RIGGED
UP HOWCO. CEMENTED W/ 250 SX CLASS "A" + 3% CC + 1/4#/SK
FLOCELE. PLUG DOWN AT 8:30 PM 11/6/90. CEMENT CIRCULATED.
CMIC J. NOWELL; DAILY COST \$ 10,957; CUM COST \$ 10,957;
- 11/8/90 PR OPNS: DRILLING;
MD 1,858; DRLD(MD) 1,500; DSS 2; DOL 2;
MW 9.2; FV 28; PH 7; CHL 400; CASING 8.625; @ 353;
DEV MD 873; ANGLE 0.5; DEV MD 1,374; ANGLE 1; DEV MD 1,734; ANGLE 0.5;
ACTIVITY SUMMARY:
MADE BIT TRIP AT 1734'. DRILLERS ANHYDRITE 1730-1766'.
DRILLING AT 1858' AT REPORT TIME.
CMIC J. NOWELL; DAILY COST \$ 9,375; CUM COST \$ 20,332;
- 11/9/90 PR OPNS: DRILLING;
MD 2,776; DRLD(MD) 918; DSS 3; DOL 3;
MW 9.3; FV 26; PH 7; CHL 800; SLD % 7; CASING 8.625;
@ 353; DEV MD 2,401; ANGLE 1;
ACTIVITY SUMMARY:
DRILLING AT 2776' AT REPORT TIME.
CMIC J. NOWELL; DAILY COST \$ 5,738; CUM COST \$ 26,070;
- 11/10/90 PR OPNS: DRILLING;
MD 3,259; DRLD(MD) 483; DSS 4; DOL 4;
MW 9.4; FV 35; PH 11; WL 9.2; CHL 1000; SLD % 7.6;
CASING 8.625; @ 353; DEV MD 3,212; ANGLE 0.75;
ACTIVITY SUMMARY:
DISPLACED MUD AT 2806'. DRILLING AT 3259' AT REPORT TIME.
CMIC J. NOWELL; DAILY COST \$ 4,344; CUM COST \$ 30,414;
- 11/11/90 PR OPNS: DRILLING; PREPARING TO LOG;
MD 3,532; DRLD(MD) 273; DSS 5; DOL 5;
MW 9.6; FV 38; LCM 1; PH 10.5; WL 8.8; CHL 900;
SLD % 9; CASING 8.625; @ 353;
ACTIVITY SUMMARY:
ESTIMATED FORMATION TOPS: TOPEKA 3163' (-957)
HEEBNER 3312' (-1106)
TORONTO 3334' (-1128)
LKC 3353' (-1147)
BASIL PENN 3350' (-1344)
REAGAN SAND 3596' (-1390)
GRANITE WASH 3620' (-1414)
CMIC J. NOWELL; DAILY COST \$ 2,014; CUM COST \$ 32,428;
- 11/12/90 PR OPNS: PREPARING TO RUN 5-1/2" CASING;
MD 3,657; DRLD(MD) 125; DSS 6; DOL 6;
MW 9.7; FV 46; LCM 0.5; PH 10; WL 8.4; CHL 900;
SLD % 9.5; CASING 8.625; @ 353; DEV MD 3,657; ANGLE 1.5;
ACTIVITY SUMMARY:
TD @ 3657'. CIRCULATED 1 HOUR. SHORT TRIPPED. RAN BACK
TO BOTTOM. CIRCULATED 1 HOUR. POOH W/ DRILL PIPE. RU
HOWCO LOGGING. RIH W/ DUAL INDUCTION LATERLOG SPECTRAL
DENSITY, DUAL SPACED NEUTRON II LOG AND MICROLOG. RIH W/
DRILL PIPE. CIRCULATED 1 HOUR. SDON.
CMIC J. NOWELL; DAILY COST \$ 15,599; CUM COST \$ 48,027;
- 11/13/90 PR OPNS: WAITING ON CEMENT;
MD 3,657; DSS 7; DOL 7; *** DROP FROM REPORT PENDING COMPLETION ***;
MW 9.7; FV 46; LCM 0.5; PH 10; WL 8.4; CHL 900;
SLD % 9.5; CASING 8.625; @ 353;
ACTIVITY SUMMARY:
POOH W/ DRILL PIPE LAYING DOWN. RU TO RUN 5-1/2". RIH W/
15' SHOE, 90 JTS, 15.5#, "A"-GRADE, K-55, 5-1/2" CASING.
BOTTOM 16 JTS SANDBLASTED (667'). TOTAL OF 3655' SET AT
3653'. RAN INSERT VALVE FLOAT SHOE. SHUT OFF BAFFLE IN
TOP OF SHOE JOINT AND DV ON TOP OF 48 JTS (1747').
CENTRALIZERS ON 1ST, 3RD, 5TH, 7TH, 9TH, 11TH, 13TH, 16TH,
47TH, AND 49TH JTS. RAN CEMENT BASKET 20' BELOW DV. RAN
MUD FLUSH AND CEMENT ACCORDING TO PROGNOSIS. OPENED DV AND
CIRCULATED FOR 2 HOURS. CEMENTED TOP STAGE WITH 400 SX
HOWCO LIGHT W/ 1/4#/SK FLOCELE. CIRCULATED 45 BBLs CEMENT
TO PIT. PLUG DOWN AT 3:52 PM 11/12/90. RELEASED RIG AT
4:40 PM 11/12/90.
CMIC J. NOWELL; DAILY COST \$ 32,713; CUM COST \$ 80,740;

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STATE CORPORATION COMMISSION

MAY 06 1991

CONSERVATION DIVISION
Wichita, Kansas

3 1/2" 15.5 #
3655'

ORIGINAL

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2

January 25, 1991

CHRONOLOGICAL WELL REPORT

PAGE: 2
G8MH

OXY USA INC., RAY "C" #5
PHILLIPS, KS WSN: 1303498

CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
* COMPLETION OPERATIONS * RU OWS WELL SERVICE RIG #14. RIH
W/ 4-3/4" ROCK BIT, 4 - 3-1/2" DRILL COLLARS, 5-1/2" SCRAPER
AND 56 JTS 2-7/8", J-55 TUBING. TAGGED DV AT 1740'.
DRILLED DV. CIRCULATED HOLE CLEAN. SDON.
CMIC J. NOWELL; DAILY COST \$ 2,975; CUM COST \$ 83,715;

11/28/90 PR OPNS: PREPARING TO PERFORATE ADDITIONAL 1';
FORM: REAGAN 3595-96';
PBDT 3,635; MTD 3,657; PERFS(MD) 3,595; - 3,596; DSS 22; DOL 22;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
RAN TUBING AND BIT TO BOTTOM. CIRCULATED HOLE CLEAN,
(TAGGED AT 3635'). PRESSURED UP TO 300 PSI - HELD OK.
POOH W/ TUBING, COLLARS AND BIT. RIGGED UP HALLIBURTON
LOGGING SERVICE. RIH W/ GR/CCL/CBL AND LOGGED FROM
3622-2500' AND 1800-1650'. RIH AND PERFORATED REAGAN AT
3595-96' AT 4 SPF W/ 3-1/8" JET GUN. POOH. STARTED
SWABBING CASING. SWABBED WELL DOWN. NO FLUID ENTRY.
SDON.
CMIC J. NOWELL; DAILY COST \$ 4,030; CUM COST \$ 87,745;

11/29/90 PR OPNS: PREPARING TO REPERFORATE;
FORM: REAGAN 3595-97';
PBDT 3,635; MTD 3,657; PERFS(MD) 3,595; - 3,596; DSS 23; DOL 23;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
OVERNIGHT FILLUP 600'. FL @ 2995'. SWABBED DRY.
PERFORATED REAGAN 3596-97' @ 4 SPF. SWABBED DRY.
CMIC J. NOWELL; DAILY COST \$ 1,985; CUM COST \$ 89,730;

11/30/90 PR OPNS: SWAB TESTING;
FORM: REAGAN 3595-98';
PBDT 3,635; MTD 3,657; PERFS(MD) 3,595; - 3,598; DSS 24; DOL 24;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
OVERNIGHT FILLUP 50'. FL @ 3345'. PERFORATED REAGAN FROM
3597-98' @ 4 SPF. FLUID LEVEL JUMPED 300' AS SOON AS
REAGAN WAS PERFORATED. SWABBED DOWN. RAN SWAB TESTS.
1ST HR: 45 BF, 8% OIL, FL @ 1600'.
2ND HR: 46 BF, 8% OIL, FL @ 1700'.
SDON.
CMIC J. D. HININGER; DAILY COST \$ 2,026; CUM COST \$ 91,756;

12/1/90 PR OPNS: PREPARING TO PUT WELL ON PUMP;
FORM: REAGAN 3595-98';
PBDT 3,635; MTD 3,657; PERFS(MD) 3,595; - 3,598; DSS 25; DOL 25;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
NO WORK FROM 12/1/90 TO 12/3/90.
CMIC J. NOWELL; CUM COST \$ 91,756;

12/4/90 PR OPNS: WAITING ON EQUIPMENT;
FORM: REAGAN 3595-98';
PBDT 3,633; MTD 3,657; PERFS(MD) 3,595; - 3,598; DSS 28; DOL 28;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
OVERNIGHT FL @ 1600', 90' OIL, 1905' WATER. SWABBED DOWN.
1ST HR TEST: 45 BBLs, 8% OIL, FL @ 1600'.
2ND HR TEST: 45 BBLs, 8% OIL, FL @ 1700'.
3RD HR TEST: 45 BBLs, 8% OIL, FL @ 1700'.
* DROP FROM REPORT PENDING INSTALLATION OF PUMPING
EQUIPMENT *
CMIC J. D. HININGER; DAILY COST \$ 900; CUM COST \$ 92,656;

1/8/91 PR OPNS: PUMP TESTING;
FORM: REAGAN 3595-98';
PBDT 3,633; MTD 3,657; PERFS(MD) 3,595; - 3,598; DSS 63; DOL 63;
*** PICK UP FROM REPORT ON 12/4/90 ***;
CASING 5.5; @ 3,655;
ACTIVITY SUMMARY:
RIH W/ 2-7/8" MUD ANCHOR (12.5'), 3-1/4 X 16' PREC TUBING
PUMP W/ 4' PLUNGER (.5 UNDER SIZED) WITH 1-1/2 X 16'
POLISHED RODS ON PLUNGER, BROWNING ON/OFF TOOL AND 113 JTS,
2-7/8", "A"-GRADE, J-55, 6.5# TUBING TO (3523'), 8 - 1-1/2"
SINKER BARS, 72 - 3/4" NORRIS 97 "A"-GRADE RODS, 60 - 7/8"
NORRIS 97 "A"-GRADE RODS, 1 - 1-1/2 X 22' POLISHED ROD.
SET LUFKIN C-320-250-85 PUMPING UNIT ("C"-GRADE FROM OKC
GENERAL STOCK WITH 30 HP ELECTRIC MOTOR FROM OKC GENERAL
STOCK). WELL RUNNING 85" X 9-1/2 X 3-1/4".
WELL TEST: 29 BO & 835 BWPD.
CMIC J. NOWELL; DAILY COST \$ 40,998; CUM COST \$ 132,753;

1/9/91 PR OPNS: PUMP TESTING;
FORM: REAGAN 3595-98';

RECEIVED
STATE CORPORATION COMMISSION

MAY 06 1991

CONSERVATION DIVISION
Wichita, Kansas