

ORIGINAL

SIDE ONE

129-21083-0000

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

City/State/Zip Oklahoma City, OK 73126-0100

Purchaser: PEPL

Operator Contact Person: Raymond Hui

Phone (405) 749-2471

Contractor: Name: Zenith Drilling Company

License: 5141

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 **CAHO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Methods:

Mud Rotary Air Rotary Cable

7/6/91 7/17/91 9/5/91

Spud Date 7/6/91 Date Reached TD 7/17/91 Completion Date 9/5/91

API NO. 15- _____

County Morton

CNW/4NE/4 Sec. 8 Twp. 32S Rge. 39 XX East West

4620 Ft. North from Southeast Corner of Section

1980' Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

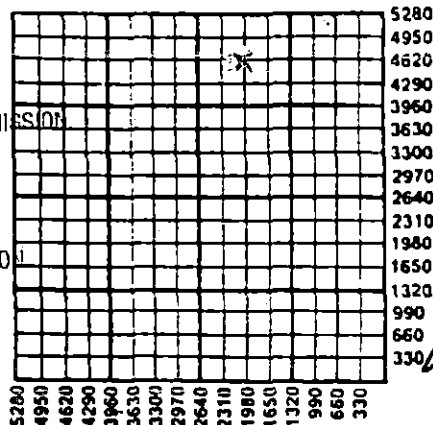
Lease Name Renshaw C Well # 1

Field Name East Kinsler

Producing Formation Morrow

Elevation: Ground 3266' KB 3277'

Total Depth 6000' PBD 5954'



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CONSERVATION DIVISION
WICHITA, KANSAS

Amount of Surface Pipe Set and Cemented at 1734' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set DV tool at 3027' Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ 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 9/6/91

Subscribed and sworn to before me this 6th day of September, 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)

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STATE CORPORATION COMMISSION

DEC 13 1991

CONSERVATION DIVISION
WICHITA, KANSAS

Form ACO-1 (7-89)

SIDE TWO

Operator Name OXY USA, Inc. Lease Name Renshaw C Well # 1
 Sec. 8 Twp. 32S Rge. 39 East County Morton
 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) Ran Dual Induction Log	<p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr><td>Winfield</td><td style="text-align: center;">2476'</td><td style="text-align: center;">3886'</td></tr> <tr><td>Heebner</td><td style="text-align: center;">3886'</td><td style="text-align: center;">4686'</td></tr> <tr><td>Morrow Shale</td><td style="text-align: center;">4686'</td><td style="text-align: center;">5381'</td></tr> <tr><td>Morrow L.</td><td style="text-align: center;">5381'</td><td style="text-align: center;">5438'</td></tr> <tr><td>Morrow S-4</td><td style="text-align: center;">5438'</td><td style="text-align: center;">5786'</td></tr> <tr><td>Keys</td><td style="text-align: center;">5786'</td><td style="text-align: center;">5851'</td></tr> <tr><td>Chester</td><td style="text-align: center;">5851'</td><td style="text-align: center;">6000'</td></tr> <tr><td>TD</td><td></td><td style="text-align: center;">6000'</td></tr> <tr><td>PBTD</td><td></td><td style="text-align: center;">5954'</td></tr> </tbody> </table>	Name	Top	Bottom	Winfield	2476'	3886'	Heebner	3886'	4686'	Morrow Shale	4686'	5381'	Morrow L.	5381'	5438'	Morrow S-4	5438'	5786'	Keys	5786'	5851'	Chester	5851'	6000'	TD		6000'	PBTD		5954'
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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
Conductor Pipe	30"	20"		38'	Redi mix	3 1/2 yds	
Surface	12 1/2"	8 5/8"	24#	1734'	Class C	675'	2% Ca Cl
Production	7 7/8"	5 1/2"	14 & 15.5#	*Please refer to csg data		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
2	5485'-5495'			Not treated.			
TUBING RECORD							
Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
2 3/8"	5495						
Date of First Production		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Waiting for PL Connection							
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
		600 MCFPD					

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Production Interval
5484'-5495'

*Production csg data: DV tool @3027'; cmtd 1st stage as follows: 410 sx 65/35 Cl H Poz w/6% gel, followed by 235 sx 50/50 Cl H Poz containing 2% gel, 2% CaCl. Cmtd 2nd stage as follows: 210 sx 65/35/Cl C Poz containing 6% gel, followed by 480 sx 50/50 Cl C Poz containing 2% gel.

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division
 TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 1-3-91
 Company: Okm USA Inc. Lease: Renshaw C Well No.: 1
 County: Morton Location: 660 FNL Section: 8 Township: 32 Range: 39 Acres:
 Field: E. Kinder Reservoir: Monow L Pipeline Connection: PEPL
 Completion Date: 12-18-91 Type Completion (Describe): Single Tkg Plug Back T.D.: 5954' Packer Set At:
 Production Method: Flowing Pumping Gas Lift Type Fluid Production: Oil + Wtr. API Gravity of Liquid/Oil: 44.5°
 Casing Size: 5 1/2" Weight: 14.0 # I.D.: 6000' Set At: 5484'-5495' Perforations: To
 Tubing Size: 2 3/8" Weight: 4.7 # I.D.: 5469 SN. Set At: 5437'-5438' Perforations: To
 Pretest: Starting Date 1-1-91 Time 10:30 AM Ending Date 1-2-91 Time 10:30 AM Duration Hrs. 24
 Test: Starting Date 1-2-91 Time 10:30 AM Ending Date 1-3-91 Time 10:30 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure	Separator Pressure	Choke Size
Casing: <u>760.0 #</u> Tubing: <u>600.0 #</u>	<u>98 #</u>	<u>15/64</u>

Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:	<u>300</u>	<u>1</u>	<u>4'</u>	<u>6"</u>	<u>90.27</u>	<u>7'</u>	<u>11"</u>	<u>158.81</u>	<u>0</u>	<u>68.54</u>
Test:	<u>300</u>	<u>1</u>	<u>7'</u>	<u>11"</u>	<u>158.81</u>	<u>11'</u>	<u>2"</u>	<u>224.00</u>	<u>0</u>	<u>65.19</u>
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps: <u>Flange Taps: ✓</u>	Differential: <u>50</u>		Static Pressure: <u>250</u>					
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure In. Water	Grav. Factor (Fg)	Flowing Temp. (t)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	<u>3.00"</u>	<u>1.250"</u>		<u>81.6</u>		<u>37.5"</u>	<u>.761</u>	<u>55°</u>
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension $\sqrt{hw \times Pm}$	Grav. Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>7.771</u>	<u>96.0</u>	<u>60.00</u>	<u>1.146</u>	<u>1.005</u>	<u>X</u>	

Gas Prod. MCFD Flow Rate (R): 537 Oil Prod. Bbls./Day: 65.19 Gas/Oil Ratio (GOR) = 8237 Cubic Ft. per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 3rd day of January 19 92

For Offset Operator

James R. Kapp
 For State

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STATE CORPORATION COMMISSION For Company

JAN 12 1992

CONSERVATION DIVISION
 WICHITA, KANSAS