SIDE ONE

20-14-22E

C

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

API NO. 15-..091/21.026.....

County.....Johnson.....

.SW. .SE. .SW.. Sec.20.. Twp.14.Rge..22.. X East / __ West

..495..... Ft North from Southeast Corner of Section
.3865..... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name...East Morris.....Well #..13....

Field Name.....

Producing Formation..Bartlesville Sandstone.....

Elevation: Ground.....—.....KB.....—

Operator: License # 03113
Name ...Martin Oil Properties.....
Address ...P.O. Box 18423.....
.....
City/State/Zip ...Okla. City, OK 73154..

Purchaser...Enron.....
.....

Operator Contact Person ...Dean Kramer.....
Phone ...(913) 883 4871.....

Contractor: License # ...5335.....
Name ...Hawkeye Drilling Co.....

Wellsite Geologist.....
Phone.....

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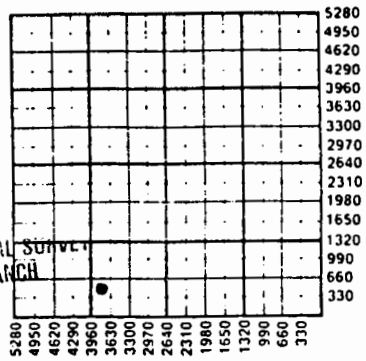
WICHITA BRANCH
AUG 11 1988

Designate Type of Completion
X New Well __ Re-Entry __ Workover

X Oil __ SWD __ Temp Abd
__ Gas __ Inj __ Delayed Comp.
__ Dry __ Other (Core, Water Supply etc.)

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

Section Plat



WELL HISTORY

Drilling Method:
X Mud Rotary __ Air Rotary __ Cable

.12/28/87..	..1/27/88....	...3/16/88...
Spud Date	Date Reached TD	Completion Date

.946.0'.....	.....
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at .40..feet
Multiple Stage Cementing Collar Used? __ Yes X No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name .....
Invoice # .....

WATER SUPPLY INFORMATION
Disposition of Produced Water: __ Disposal
Docket # ..... __ Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #.....

__ Groundwater.....Ft North from Southeast Corner
(Well) .....Ft West from Southeast Corner of
Sec Twp Rge __ East __ West

__ Surface Water.....Ft North from Southeast Corner
(Stream,pond etc).....Ft West from Southeast Corner
Sec Twp Rge __ East __ West

__ Other (explain).....
(purchased from city, R.W.D. #)

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. 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 .....

Title.....Broker..... Date ...8/3/88

Subscribed and sworn to before me this ...3rd...day of August
19....88
Notary Public.....

Date Commission Expires.....2-11-90.....

MARGARET CHILTON
State of Kansas
My Appt Exp

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)

Sec. 20 Twp. 14 Rge. 22

Form ACO-1 (5-86)

SIDE TWO

531272

Operator Name Martin Oil Properties Lease Name East Morris Well # 13

Sec. 20 Twp. 14 Rge. 22 [X] East [ ] West County Johnson

WELL LOG

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 [X] No
Samples Sent to Geological Survey [ ] Yes [X] No
Cores Taken [X] Yes [ ] No

Formation Description [X] Log [ ] Sample

Name	Top	Bottom
Bartlesville		
Attached		

Attached

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	6 5/8"	6"			100%	15	
Production	5 1/8"	2 7/8"		965.3'			

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	868.0' to 874.0'	50 gal. acid	
		80 bbl. oil frac	

TUBING RECORD Size 2 7/8" Set At 965.3' Packer at Liner Run [ ] Yes [ ] No

Date of First Production | Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (explain)

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	15 Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: [X] Vented [ ] Sold [ ] Used on Lease

[ ] Open Hole [X] Perforation
[ ] Other (Specify)

[ ] Dually Completed
[ ] Commingled

20-14-22E

LOG

Company Martin Oil Properties Lease East Morris Well No. 13

BARTLESVILLE SANDSTONE

Depth Interval, Feet	Description
875.0 - 876.0	Sandstone, light brown, friable.
876.0 - 877.2	Sandstone, brown and light brown, alternate layers, friable.
877.2 - 877.6	Sandstone, brown.
877.6 - 878.0	Sandstone, light brown with scattered light gray siltstone partings.
878.0 - 880.7	Sandstone, brown with widely scattered shale partings.
880.7 - 883.0	Sandstone, brown with scattered shale partings.
883.0 - 884.7	Sandstone, brown, shaly with scattered shale partings.
884.7 - 886.0	Shale and sandstone, gray and brown, laminated.

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531272

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Martin Oil Properties Lease East Morris Well No. 13

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	875.5	29.1	27	39	66	610	39.
2	876.5	29.0	33	37	70	742	43.
3	877.5	23.3	31	37	68	560	135.
4	878.5	15.8	67	29	96	821	14.
5	879.5	24.1	55	12	67	1028	181.
6	880.5	21.2	37	30	67	609	84.
7	881.4	20.3	45	30	75	709	19.
8	882.5	18.5	46	15	61	660	21.
9	883.5	16.1	50	36	86	625	5.4
10	884.5	19.5	48	40	88	726	4.3
11	885.5	16.1	28	68	96	350	0.78

868' — 874 — 13 SHOTS

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