

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

COPY

API NO. 15- 103-21,252

County Leavenworth

SW NW NW SW Sec. 23 Twp. 8S Rge. 21 ^X E

2310 Feet from S (circle one) Line of Section

165 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Massman A Well # 1W SWD

Field Name Leavenworth West

Producing Formation McClouth

Elevation: Ground 1017 KB

Total Depth 810 PBDT 801

Amount of Surface Pipe Set and Cemented at 40.65 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 801

feet depth to surface w/ 112 sx cm.

Drilling Fluid Management Plan Drilled with air.
(Data must be collected from the Reserve Pit) 6-25-92

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

License # 6435

Name: Rader Exploration Co.

Address: Route 1, Box 25A

City/State/Zip Edgerton, Kansas 66021

Purchaser: Enron

Operator Contact Person: Alan Rader

Phone (913) 882-6288

Contractor: Name: Evan Energy Dev. Co.

License: 8509

Wellsite Geologist: Alan Rader

Designate Type of Completion
XXX New Well _____ Re-Entry _____ Workover _____

Oil X SWD _____ S10W _____ Temp. Abd.

Gas _____ ENHR _____ SIGW _____

Dry _____ Other (Core, WSW, Expl., Cathodic, etc) _____

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____

Plug Back _____ PBDT _____

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

5-8-92 5-9-92
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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 Alan Rader

Title Operator Date 6-19-92

Subscribed and sworn to before me this 19th day of June 1992.

Notary Public State of Kansas
KAY CARUTHERS
Docket Commission Expires

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C X Wireline Log Received
C Geologist Report Received
Distribution
KCC SVD/Rep
KCS JUN 24 1992
RECEIVED
KANSAS CORPORATION COMMISSION
MGA
Other (Specify)
DIVISION
Kansas

SIDE TWO

Operator Name Rader Exploration Co.

Lease Name Massman A

Well # 1W

Sec. 23 Twp. 8S Rge. 21

East
 West

County Leavenworth

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.)

Log Formation (Top), Depth and Datum Sample
Name Top Datum
Base KC Lime 637 Surface
Oswego Lime 737 Surface

List All E.Logs Run:
Gamma/Neutron

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	8-5/8"	7"	21	40.65'	portland	10	3% CaCl ₂
Casing	5-5/8"	2-7/8"	6.2	801	pozmix	112	4 1/4% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	737 to 740, 743 to 750 3per ft	60 gal. 14 1/2% HCL	737-750

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.]	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval



310 N. Hospital Drive

Paola, Kansas 66071

COPY

Custom
oil & gas
drilling
Lease Development

(913) 294-9083

WELL LOG
Massman - #1W
Rader Exploration Company
API #15-103-21,252
May 8 - 9, 1992

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
4	soil & clay	4
2	lime	6
4	shale	10
22	lime	32
23	shale	55
6	lime	61
26	shale	87
2	lime	89
4	sand	93
225	shale	318
6	lime	324
4	shale	328
12	lime	340
7	shale	347
2	lime	349
23	shale	372
19	lime	391
3	shale	394
21	lime	415
43	shale	458
13	lime	471
6	shale	477
5	lime	482
10	shale	492
9	lime	501
16	shale	517
10	lime	527
13	shale	540
7	lime	547
7	shale	552
3	lime	557
9	shale	566
22	lime	588
6	shale	594
11	lime	615
3	shale	618-black
2	lime	620-slight oil odor
3	shale	623
14	lime	637-base of the Kansas City

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JUN 9 4 1992

COMMISSION DIVISION
Topeka, Kansas

Massman - #1W

90	shale	727
3	limey shale	730
17	shale	747
7	lime	754-sandy
32	shale	786-green
5	lime	791
5	shale	796
2	lime	798
12	shale	810-TD

Set 40.65' of 7" T & C Surface casing. Set 801' of 2 7/8"
 8 Round upset tubing including, 2 Centralizers, 1 Float shoe,
 1 Clamp.

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JUN 24 1992

CONSERVATION DIVISION
 Wichita, Kansas