

23087
COPY

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

Operator: License # 6435

Name: Rader Exploration Co.

Address Route 1

Box 25A

City/State/Zip Edgerton, KS 66021

Purchaser: Enron

Operator Contact Person: Alan Rader

Phone (913) 882-6288

Contractor: Name: Evans Energy & Dev. Co.

License: 8509

Wellsite Geologist: Alan Rader

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGV
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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 PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

4-30-92 5-6-92 5-12-92
Spud Date Date Reached TD Completion Date

API NO. 15- 103-21,251

County Leavenworth

C - SW - NW - SW Sec. 23 Twp. 8S Rge. 21 ^X _E

1650 Feet from SW (circle one) Line of Section

330 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 # 4

Field Name West Leavenworth

Producing Formation 2nd McClouth Sandstone

Elevation: Ground 1041 KB _____

Total Depth 1434 PSTD 1424

Amount of Surface Pipe Set and Cemented at 44.20 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 1424

feet depth to Surface w/ 131 sx cnt.

Drilling Fluid Management Plan ALT 2 JH 6-20-94
(Data must be collected from the Reserve Pit)

Chloride content 2000 ppm Fluid volume 340 bbls

Dewatering method used Evap/pumping

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

County _____ Docket No. _____

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
Operator _____ Date 6-19-92

Subscribed and sworn to before me this 19 day of June, 19 92.

Notary Public _____

NOTARY PUBLIC - State of Kansas
Date Expires 4-30-93
My Appt. Exp. 4-30-93

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC
 KGS
SWD/REGISTRATION DIVISION
PLUG PERMIT
Wichita
OS/NGPA
Other (Specify) _____
JUN 2 1992

Operator Name Rader Exploration Co. Lease Name Massman A Well # 4
 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BKC	670	G.L.
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Riverton Coal	1281	G.L.
List All E.Logs Run:		1st McClouth	1311	G.L.
		2nd McClouth	1381	G.L.

Gamma/Neutron/Bond

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 Additive
Surface	8-5/8"	7"	21	44	Portland	10	3% CaCl ₂
Casing	6-1/4"	4 1/2"	9.5	1424	OWC/poz	131	gils/fl.sea bactericide

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	1150-T.D.	OWC	30	7% gilsonite/3% flow seal
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	surf-1150	Poz-Mix	101	1% flowseal/6% gel

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
	2	3 1/2" carrier,	1382-1394	30sx 10-20, 90sx 8-12 sand 16 balls, 190 Bbls Oil	

TUBING RECORD	Size 2-3/8"	Set At 1378	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 checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)							
5-30-92								
Estimated Production Per 24 Hours	Oil 50	Bbls.	Gas 2	Mcf	Water 0	Bbls.	Gas-Oil Ratio	Gravity 23.9

Disposition of Gas: vented sold used as lease open hole part dually comb commingled

METHOD OF COMPLETION

Production Interval: 1382-1394

Computer inventoried



310 N. Hospital Drive

Paola, Kansas 66071

K C C

JUN 20 1994

Custom
oil & gas
drilling

Lease Development

(913) 294-9083

WELL LOG

Massman # - #4 'A'

Rader Exploration Company

API #15-103-21,251

April 30 - May 6, 1992

23-85-21E

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
2	lime	17
14	clay	31
6	lime	37
10	shale	47
18	lime	65
6	shale	71
2	lime	73
15	shale	88
5	lime	93
260	shale	353
5	lime	358
4	shale	362
15	lime	377
3	shale	380-black
2	lime	382
25	shale	407
18	lime	425
5	shale	430
16	lime	446
45	shale	491
14	lime	505
5	shale	510
4	lime	514
14	shale	528
7	lime	535
18	shale	553
3	lime	556
3	shale	559
2	lime	561
15	shale	576
4	lime	580
8	shale	588
37	lime	625
7	shale	632
38	lime	670-base of the Kansas
109	shale	779
4	sand	803
15	shale	818

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JUN 24 1992

CONSERVATION DIVISION
Wichita, Kansas

Massman A - #4 (con't)

4	lime	822
2	shale	824
4	lime	828
12	shale	840
15	lime	855
11	shale	866
2	lime	868
6	shale	874
2	coal	876
1	shale	877
6	lime	883
7	shale	890
2	lime	892
11	shale	903
3	lime	906
6	shale	912
3	lime	915
4	shale	919
4	lime	923
61	shale	984
2	coal	986
295	shale	1281
3	coal	1284-Riverton
27	shale	1311
8	sand	1319
61	shale	1380
1	brown limey sand	1381-hard, oil show, core start
.5	limey sand	1381
17	sand	1398-brown, bleeding oil
36	shale	1434-TD

Set 44.20' of 7" T & C Surface Casing.

Set 1424.30' of 4½" Casing; including 5 Centralizers,
2 Scratchers, 1 Float Shoe, 1 Clamp, 2 Cement Baskets.

McClouth Formation Core Time

	<u>Min.</u>	<u>Sec.</u>
1382	1	10
1383		50
1384	1	00
1385		50
1386		55
1387	1	35
1388	1	00
1389	1	00
1390	1	00
1391	1	00
1392	1	00
1393	1	00
1394	1	00
1395	1	00
1396	1	10
1397	1	15
1398	1	15
1399	1	15

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CONSERVATION DIVISION
Wichita, Kansas

Massman A - #4 (con't)

	<u>Min.</u>	<u>Sec.</u>
1400	1	20
1401	1	20
1402	1	25
1403	1	35
1404	1	35
1405	1	30
1406	1	25
1407	1	40
1408	1	35
1409	1	50
1410	1	10
1411	2	10
1412	1	50
1413	2	00
1414	3	00
1415	1	30
1416	1	20
1417	1	30
1418	1	30
1419	2	40
1420	2	10

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STATE OF KANSAS COMMISSION
JUN 24 1972
CONSERVATION DIVISION
Wichita, Kansas