

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

Operator: License # 3555
Name GLEN S. SODERSTROM
Address 8700 Stemmons Freeway
Suite 311
City/State/Zip Dallas, TX 75247

Purchaser Koch Oil Company
Wichita, KS

Operator Contact Person Glen S. Soderstrom
Phone (214) 634-0425

Contractor: License # 8682
Name Golden Eagle Drilling Co.

Wellsite Geologist Roger Welty
Phone (913) 674-5835

Designate Type of Completion
 New Well Re-Entry Workover

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
9-19-87 9-27-87 11-6-87
Spud Date Date Reached TD Completion Date
4550'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 300 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...feet
If alternate 2 completion, cement circulated
from...feet depth to...w/...SX cmt
Cement Company Name BJ-Titan Services Co.
Invoice # XB078

API NO. 15-153-20,694 -00-00
County Rawlins
C W/2 SW NW Sec. 3 Twp. 1 Rge. 33 East
XX West

3300 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

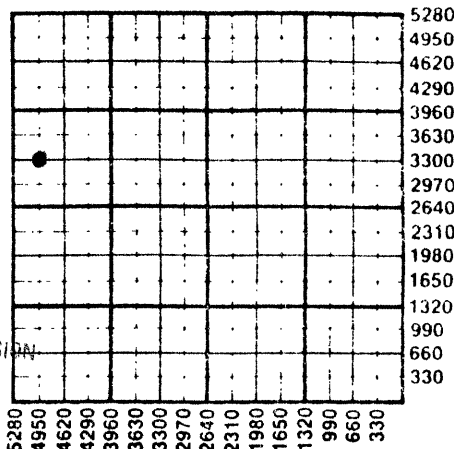
Lease Name RATHER Well # 1

Field Name West-Horinek

Producing Formation Lansing-Kansas City

Elevation: Ground 2982 KB 2989

Section Plat



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11-16-87
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Wichita, Kansas

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 # N/A

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 Elmer Hoff
(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 [Signature]
Title Operator Date 11-11-87

Subscribed and sworn to before me this 11th day of November 1987.
Notary Public LOU D. CRABTREE [Signature]

Date Commission Expires April 10, 1989



LOU D. CRABTREE
Notary Public, State of Texas
My Commission Expires 4-10-89

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 3, Twp. 1, Rge 33W

SIDE TWO

Operator Name Glen S. Soderstrom Lease Name Rather Well # 1

Sec. 3 Twp. 1 Rge. 33 East West County Rawlins

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 No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST#1-3965'-^{4010'}(^{"C"} Zone) Tool open 30 min. w/weak blow for 28 min. Shut in 60 min. Reopened for 30 min. w/no blow. Shut in 60 min. Recovered 15' oil cut mud. Flow pressures 57-57-57-57. ISIP 906/60 FSIP 763/60 BHT 118.

DST#2- 4009'-4065' ("D" Zone) Tool open w/weak blow for 30 min. Shut in 60 min. Reopened 30 min. w/weak blow. Shut in 60 min. Recovered 20' oil-cut mud. FP 49-49-59-59 ISIP 941/60 FSIP 785/60.

DST#3- 4057-4115' ("E" Zone) Tool open w/fair blow increasing to good blow. Shut in 60 min. Reopened for 60 min w/fair to good blow. SI 90 min. Recovered 140' gas in pipe, 230' clean gassy oil (37 gravity) 60' gas & oil-cut mud (30% oil, 50% mud, 20% gas) 60' gas & oil-cut mud (20% oil, 20% gas, 60% mud). FP 88-108-137-157. ISIP 275/60 FSIP 265/90 IHP 2143 FHP 2133 BHT 120.

Name	Top	Bottom
Topeka	3692	
Oread	3819	
Lansing	3892	
Cherokee Shale	4322	
Wea. Arbuckle	4483	

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	12 1/4	8 5/8	20#	303	Class "A"	210	2% gel 3% cc
Production	7 7/8	4 1/2	10.5#	4258	Class "A"	150	2% gel 10% salt

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4090 - 4097	500 gal 15% MCA & 3000 gal 15% N.E.	

TUBING RECORD Size 2 3/8 Set At 4115 Packer at _____ Liner Run Yes No

Date of First Production 11-6-87 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas TSTM MCF	Water Bbls	Gas-Oil Ratio CFPB	Gravity
	63		None	0	37

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled

..... 4090 - 4097

15-153-20694-00-00

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Glen S. Soderstorm	Test No.	1
Well Name & Number	Räther #1	Zone Tested	Kansas City "C"
Company Address	8700 Stemmons Frwy.- Suite 311, Dallas, Tx.	Date	9-24-87
Company Rep.	Roger Welty	Tester	Gary Hartwell
Contractor	Golden Eagle Drilling Co.	Elevation	2988 K.B.
Location: Sec. 3	Twp. 1S	Rge. 33W	Co. Rawlin State Ks.
			Est. Feet of Pay

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 4004 Clock # 23859

(A) Initial Hydrostatic Mud 2075 PSI

(B) First Initial Flow Pressure 57 PSI

(C) First Final Flow Pressure 57 PSI

(D) Initial Shut-in Pressure 906 PSI

(E) Second Initial Flow Pressure 57 PSI

(F) Second Final Flow Pressure 57 PSI

(G) Final Shut-in Pressure 763 PSI

(H) Final Hydrostatic Mud 2055 PSI

Temperature 118°

Mud Weight 9.2 Viscosity 48

Fluid Loss 7.2

Interval Tested 3965-4010

Anchor Length 45

Top Packer Depth 3960

Bottom Packer Depth 3965

Total Depth 4010

Drill Pipe Size 4 1/2" X.H.

COLLARS
Wt. Pipe I. D. 2.25 Ft. Run 358

Recovery-Total Feet 15

Recovered 15 Feet Of Oil Spotted Mud.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Extra Equipment _____ Price of Job _____

Recorder No. 13371 Type AK-1 Range 3900 PSI

Recorder Depth 4007 Clock # 25561

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 60 Mins.

Flow Period 30 Mins.

Final Shut-in 60 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 5:58 A.M.

Blow Remarks Weak 1/2" Blow Died in 28 min.

on 1st Opn.

2nd Open: No Blow.

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OPERATION DIVISION
Wichita, Kansas

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Glen S. Soderstorm</u>	Test No. <u>2</u>
Well Name & Number <u>Räther #1</u>	Zone Tested <u>Kansas City "D"</u>
Company Address <u>8700 Stemmons Frwy.- Suite 311, Dallas, Tx.</u>	Date <u>9-24-87</u>
Company Rep. <u>Roger Welty</u>	Tester <u>Gary Hartwell</u>
Contractor <u>Golden Eagle Drilling Co.</u>	Elevation <u>2988 K.B.</u>
Location: Sec. <u>3</u> Twp. <u>1S</u> Rge. <u>33W</u> Co. <u>Rawlin</u> State <u>Ks.</u>	Est. Feet of Pay _____

Recorder No. 13363 Type AK-1 Range 3800 PSI

Recorder Depth 4059 Clock # 23859

(A) Initial Hydrostatic Mud 2133 PSI

(B) First Initial Flow Pressure 49 PSI

(C) First Final Flow Pressure 49 PSI

(D) Initial Shut-in Pressure 941 PSI

(E) Second Initial Flow Pressure 59 PSI

(F) Second Final Flow Pressure 59 PSI

(G) Final Shut-in Pressure 785 PSI

(H) Final Hydrostatic Mud 2123 PSI

Temperature _____

Mud Weight 9.3 Viscosity 58

Fluid Loss 6.8

Interval Tested 4009-4065

Anchor Length 56

Top Packer Depth 4004

Bottom Packer Depth 4009

Total Depth 4065

Drill Pipe Size 4 1/2" X.H.

COLLARS
Wt. Pipe I. D. 2.25 Ft. Run 358

Recovery-Total Feet 20

Recovered 20 Feet Of Oil Spotted Mud.

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recorder No. 13371 Type AK-1 Range 3900 PSI

Recorder Depth 4062 Clock # 25561

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 60 Mins.

Flow Period 30 Mins.

Final Shut-in 60 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 10:23 P.M.

Blow Remarks Weak 1 1/2" Blow Dying to surface on 1st Open.

2nd Open: No Blow.

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Extra Equipment _____ Price of Job 625

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company <u>Glen S. Soderstrom</u>	Test No. <u>3</u>
Well Name & Number <u>Rather #1</u>	Zone Tested <u>K.C. "E"</u>
Company Address <u>8700 Stemmons Frwy. #311, Dallas, Tex. 75247</u>	Date <u>9-25-87</u>
Company Rep. <u>Roger Welty</u>	Tester <u>Gary Hartwell</u>
Contractor <u>Golden Eagle Drlg. Co.</u>	Elevation <u>2988 K.B.</u>
Location: Sec. <u>3</u> Twp. <u>1S</u> Rge. <u>33W</u> Co <u>Rawlins</u> State <u>Kan.</u>	Est. Feet of Pay _____

Recorder No. 13363 Type AK-1 Range 3800 PSI
 Recorder Depth 4109 Clock # 23859
 (A) Initial Hydrostatic Mud 2143 PSI
 (B) First Initial Flow Pressure 88 PSI
 (C) First Final Flow Pressure 108 PSI
 (D) Initial Shut-in Pressure 275 PSI
 (E) Second Initial Flow Pressure 137 PSI
 (F) Second Final Flow Pressure 157 PSI
 (G) Final Shut-in Pressure 263 PSI
 (H) Final Hydrostatic Mud 2133 PSI
 Temperature 1203
 Mud Weight 9.2 Viscosity 46
 Fluid Loss 7.2

Recorder No. 13371 Type AK-1 Range 3900 PSI
 Recorder Depth 4112 Clock # 25561
 Tool Open Before I.S.I. 30 Mins.
 Initial Shut-in 60 Mins.
 Flow Period 60 Mins.
 Final Shut-in 90 Mins.
 Top Choke Size 1" Hole Size 7 7/8"
 Bottom Choke Size 3/4" Rubber Size 6 3/4"
 Tool Open @ 1:44 P.M.
 Blow Remarks Fair building blow 11" on first open.
Fair building blow 12" on second open.

Interval Tested 4057-4115
 Anchor Length 58'
 Top Packer Depth 4052
 Bottom Packer Depth 4057
 Total Depth 4115
 Drill Pipe Size 4 1/2 EX.H.
 Wt. Pipe I. D. Collar 2.25 Ft. Run 358
 Recovery-Total Feet 350
 Recovered 140 Feet Of G.I.P.
 Recovered 230 Feet Of Clean Gsy oil (Gr. 37 Corr.)
 Recovered 60 Feet Of Gsy O.C.M. (30% Oil 50% Mud 20% Gas)
 Recovered 60 Feet Of Gsy O.C.M. (20% Oil 60% Mud 20% Gas)
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Extra Equipment _____ Price of Job _____

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