

SIDE ONE

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

Operator: License # 5952
Name: Amoco Production Company
Address P.O. Box 800, Rm. 1833

City/State/Zip Denver, CO 80201
Purchaser: N/A
Operator Contact Person: J. A. Victor
Phone (303) 830-4009
Contractor: Name: Exeter Drilling
License: 3098
Wellsite Geologist: _____

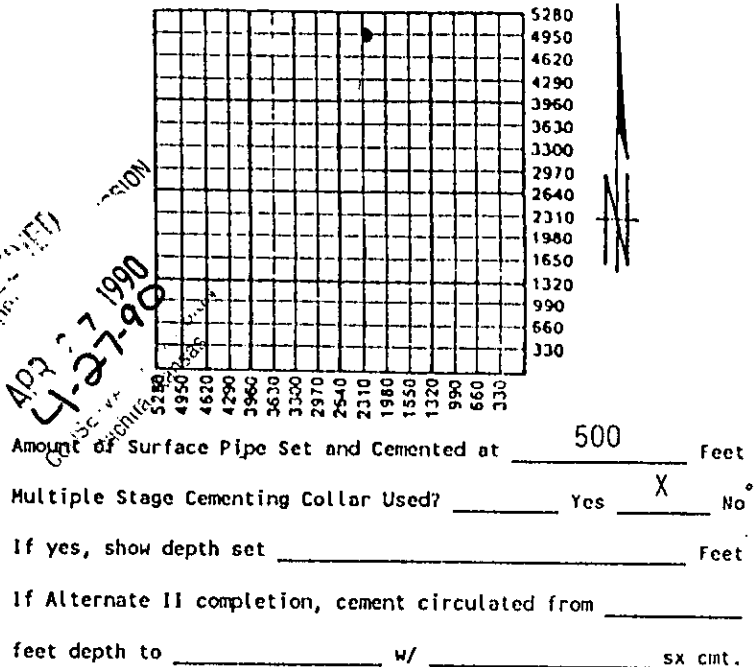
Designate Type of Completion
 New Well Re-Entry Workover

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

If OWMO: old well info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
1/12/90 1/19/90 1/20/90
Spud Date Date Reached TD Completion Date

API NO. 15- 071-20489-0000
County Greeley
NW NW NE Sec. 26 Twp. 18 Rge. 43 East West
4950 Ft. North from Southeast Corner of Section
2300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Settles Well # 1
Field Name Moore-Johnson
Producing Formation N/A
Elevation: Ground 3882' KB 3894'
Total Depth 5300' PBTD _____



STATE CORPORATION COMMISSION
APR 27 1990
4-27-90

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 J. L. Hampton
Title Sr. Staff Admin. Supv. Date 4/9/90
Subscribed and sworn to before me this 9th day of April, 19 90.
Notary Public Julie A. Victor
Date Commission Expires 4/7/94

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify) _____

ORIGINAL

SIDE TWO

Operator Name Amoco Production Company Lease Name Settles Well # 1
 Sec. 26 Twp. 18 Rge. 43 East County Greeley
 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 (Attach Additional Sheets.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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 (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom
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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
Surface	12-1/4"	8-5/8"	24#	500'	Premium + Premium	180 125	2% CACL 2% CACL

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD				Liner Run
Size	Set At	Packer At		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
None		None		

Date of First Production Dry Hole	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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

ORIGINAL

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SIDE TWO

Operator Name Amoco Production Company Lease Name Settles Well # 1

Sec. 26 Twp. 18 Rge. 43 East West
County Greeley

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.)

DST #1 - set on bottom at 5150'
Rec. 75' of dilg. mud,
temperature 160°.

Formation Description

Log Sample

Name	Top	Bottom
Upper Monow	5012'	5135'

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"	24#	500'	Premium + Premium	180 125	2% CACL 2% CACL

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Depth

TUBING RECORD

Size None Set At None Packer At None

Liner Run Yes No

Date of First Production Dry Hole Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

SETTLES
 LEASE NAME
 HELL NO. 1
 TEST NO. 1
 FIELD
 HILDEBIT
 COUNTY
 GREELEY
 STATE
 KANSAS DR
 4938.7 - 5150.0
 11 STD INTERVAL
 AMOCO PRODUCTION COMPANY
 LEASE OWNER/COMPANY NAME

AMOCO PRODUCTION COMPANY
 LEASE : SETTLES
 WELL NO. : 1
 TEST NO. : 1

TICKET NO. 00897600
 22-JAN-90
 LIBERAL.

15-071-20,489

EQUIPMENT & HOLE DATA

FORMATION TESTED: MORROW
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 161.3
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 3882.0
 TOTAL DEPTH (ft): 5150.0
 PACKER DEPTH(S) (ft): 4983. 4989
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 8.80
 MUD VISCOSITY (sec): 40
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 158 @ 5145.0 ft

TICKET NUMBER: 00897600
 DATE: 1-18-90 TEST NO: _____
 TYPE DST: OPEN HOLE
 FIELD CAMP: LIBERAL
 TESTER: M. HESTON
 M. KELLY
 WITNESS: JOE EUDEY
 GEORGE GRAY
 DRILLING CONTRACTOR: EXETER #2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT</u>	<u>0.330 @ 67 °F</u>	<u>16173 ppm</u>
<u>BOTTOM</u>	<u>0.400 @ 67 °F</u>	<u>5371 ppm</u>
<u>SAMPLER</u>	<u>0.400 @ 67 °F</u>	<u>5371 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 125.0
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 2200.0
 TOTAL LIQUID cc: 2200.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA




















TYPE AMOUNT WEIGHT

RECOVERED :

75' OF DRILLING MUD

MEASURED FROM
TESTER VAI VF

REMARKS :

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.825	4440.3	
3		DRILL COLLARS.....	6.250	2.000	419.3	
50		IMPACT REVERSING SUB.....	6.000	2.170	1.3	4850.3
3		DRILL COLLARS.....	6.250	2.000	88.7	
5		CROSSOVER.....	6.000	2.370	1.0	
11		HANDLING SUB & CHGKE ASSEMBLY...	4.500	2.430	4.7	
12		DUAL CIF VALVE.....	5.000	0.750	5.5	
50		HYDROSPRING TESTER.....	5.000	0.750	5.0	4955.8
80		AP RUNNING CASE.....	5.000	2.250	4.1	4957.7
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4982.9
70		OPEN HDLE PACKER.....	6.750	1.530	5.8	4988.7
5		CROSSOVER.....	6.000	2.370	1.0	
3		DRILL COLLARS.....	6.250	2.000	119.0	
5		CROSSOVER.....	6.000	2.370	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	33.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.5	5145.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	5147.0
TOTAL DEPTH						5150.0