

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

Operator: License # 5952

Name: Amoco Production Company

Address P.O. Box 800, Room 2072

City/State/Zip Denver, CO 80201

Purchaser: _____

Operator Contact Person: Craig Carley

Phone (303) 830-4601

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover
Oil SWD SIOW 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 _____ PBTD

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

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

5/20/93 7/21/93 9/3/93

Spud Date Date Reached TD Completion Date

API No. 15 - 187-20676

County Stanton

C - W/2-NW - Sec. 16 Twp. 29 Rge. 39 East West

1320 Feet from S Line of Section

660 Feet from E Line of Section

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

Lease Name Esser Well # 1

Field Name Wildcat

Producing Formation Morrow

Elevation: Ground 3212 KB 3223

Total Depth 5900 PBTD 5847

Amount of Surface Pipe Set and Cemented at 702 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2,865 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 JH 3-1-94
(Data must be collected from the Reserve Pit)

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. _____

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 to the best of my knowledge.

Signature Craig Carley

Title Business Analyst Date 12-6-93

Subscribed and sworn to before me this 7th day of December 1993

My Commission Expires August 02, 1994
Notary Public Deanna Callahan

Date Commission Expires _____

K.C.C. OFFICE USE ONLY			
F	<input type="checkbox"/>	Letter of confidentiality Attached	
C	<input checked="" type="checkbox"/>	Wireline Log Received	
C	<input type="checkbox"/>	Drillers Timelog Received	
Distribution			
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/>	SWD/Rep
<input checked="" type="checkbox"/>	KGS	<input type="checkbox"/>	Plug
<input type="checkbox"/>		<input checked="" type="checkbox"/>	NGPA
		<input type="checkbox"/>	Other
			(Specify)

Operator Name Amoco Production Company Lease Name Esser Well # 1
 County Stanton
 Sec. 16 Twp. 29 Rge. 39 East West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool 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.) Log Formation (Top), Depth and Datums Sample

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E. Logs Run: PERFORATION LOG

Name	Top	Datum
Council Grove	5900	655
Pennsylvania	2568	199
Heebner	3024	-545
Lansing	3768	-1214
Mormafan	3866	-1932
Morrow	4437	-2360
Chester	5155	-2519
St. Louis	5583	-2677
	5742	

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	17-1/2"	13-3/8	54.50#	702	Class C	575	2% CaCl ₂ 0.25% fl. flocc.
Intermediate	12-1/4"	8-5/8"	32# & 24#	2583	Class C	900	2% CaCl ₂ 0.25% fl. flocc.
Production	7-7/8"	5-1/2"	15.5#	5898	Class C	900	15% salt 2% Ca 1.2% Halad 9

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	5564-5582		Acidize 2/1500 gal. 15% FE	5564-5582
			frac 2/650 CO ₂ foam and 94,580 lbs. 16/30 ottawa sand w/13,570 gal. fluid	5564-5582

TUBING RECORD N/A Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj SI Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas 1304 Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 5564-5582

(If vented, submit ACO-18) Other (Specify)

DRILLERS LOG

API#15-187-20676

AMOCO PRODUCTION COMPANY
ESSER #1
SECTION 16-T29S-R39W
STANTON COUNTY, KANSAS

SURFACE CASING: 702' OF 13 3/8"
CMTD W/425 SX LT "C", 2% C.C.,
1/4#/SX FLO-CELE; TAILED IN W/
150 SX "C", 2% C.C., 1/4#/SX FLO-CELE
INTERMEDIATE CASING: 2583' OF 8 5/8"
CMTD W/650 SX LT "C", 2% C.C.,
1/4#/SX FLO-CELE; TAILED IN W/
250 SX "C", 2% C.C., 1/4#/SX FLO-CELE

COMMENCED: 06-20-93
COMPLETED: 07-22-93

FORMATION	DEPTH
SURFACE CASING	0- 702
INTERMEDIATE CASING	702-2583
COUNCIL GROVE	2583-2855
SHALE & LIME	2855-2866
COUNCIL GROVE	2866-2941
LIME & SHALE	2941-3213
PENNSYLVANIAN	3213-3430
LIME & SHALE	3430-3944
LANSING	3944-4430
MARMATON	4430-4830
LIME & SHALE	4830-5208
MORROW	5208-5390
LIME, BLACK SHALE, SAND & MORROW	5390-5515
LIME & SHALE	5515-5628
CHESTER	5628-5745
LIME & SHALE	5745-5852
ST. LOUIS	5852-5900 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

Claude E. Norwood
CLAUDE E. NORWOOD

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28TH DAY OF JULY, 1993.

Becky J. Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC

