SIDE ONE

19-7-22W ✓

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

API NO. 15-...065-22,387.....

County.....Graham.....

NE SW NW ..... 19 ..... 7 ..... 22 ..... __ East
Sec. Twp. Rge. XX West

...3630... Ft North from Southeast Corner of Section
...4290... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

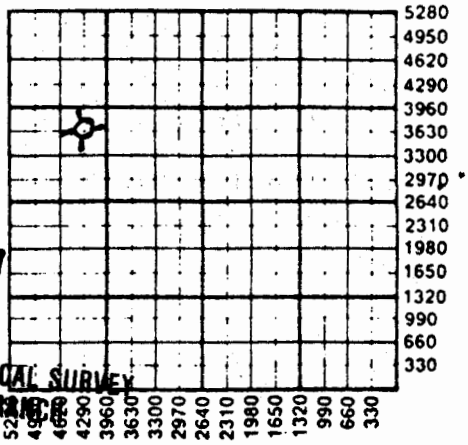
Lease Name.....Steward.....Well #.1.....

Field Name.....

Producing Formation.....

Elevation: Ground.....2294.....KB.....2302..

Section Plat



AUG 10 1987

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Operator: License # ...5663.....
Name ...Hess Oil Company.....
Address Box 1009.....
.....McPherson, KS 67460.....
City/State/Zip .....

Purchaser.....
.....

Operator Contact Person ...James C. Hess.....
Phone ..(316) 263-2243.....

Contractor: License # ..4958.....
Name ..Mallard JV, Inc.....

Wellsite Geologist.....Beth A. Fuhr.....
Phone.....(316) 263-2243.....

Designate **Type of Completion**
X New Well __ Re-Entry __ Workover

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

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

WELL HISTORY

Drilling Method:
X Mud Rotary __ Air Rotary __ Cable

6-21-87	6-26-87	6-26-87
Spud Date	Date Reached TD	Completion Date

3760'	
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 210 feet
Multiple Stage Cementing Collar Used? __ Yes X No
if yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....210..feet depth to..surf..w/.140 SX cmt
Cement Company Name ....Allied.....
Invoice # ...781.....

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 #.....

__ 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

X Other (explain)..Purchased from land owner.....
(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.

...rules and regulations promulgated to regulate the oil and gas industry have

SIDE TWO

Operator Name ..... Hess Oil Company ..... Lease Name ..... Steward ..... Well # ..1..

Sec. 19 Twp. 7 Rge. 22 ☐ East ☒ West County ..... Graham .....

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

DST #1: 3684-3725, 20-45-5-flushed tool (tool slid 12' to botoom). 1st Open- very weak blow, died after 20 minutes; 2nd Open- no blow, flushed tool, no help. Rec: 95' oil cut mud (2% oil). ISIP 169#, IFP 105-137#, FSIP NA, FFP NA, Hyd 1995-1963#, Tmp 118.

Formation Description ☐ Log ☒ Sample

Name	Top	Bottom
Anhydrite	1925	1963
Heebner	3507	
Toronto	3535	
Lansing	3553	3753
R.T.D.	3760	

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	12¼	8.5/8"	20#	210.69'	60/40poz	140	3%cc, 2%gel

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

TUBING RECORD Size Set At Packer at Liner Run ☐ Yes ☐ No

Date of First Production | Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

19-7-22W

DRILLERS' LOG

COMPANY: Hess Oil Company

CONTRACTOR: Mallard Drilling
P. O. Box 1009
McPherson KS 67460

COMMENCED: June 21, 1987

COMPLETED: June 26, 1987

TOTAL DEPTH: 3760'

WELL: Steward #1

API#: 15-065-22,387

LOCATION: NE SW NW

Sec. 19, Twp. 7S, Rge. 22W

COUNTY: Graham

ELEVATION: 2294' G. L.
2302' K. B.

****

FORMATION	FROM	TO
Soil, Shale	0'	215'
Shale, Sand	215'	1464'
Cedar Hills	1464'	1685'
Shale, Sand, Clay	1685'	1925'
Anhydrite	1925'	1962'
Shale	1962'	2881'
Shale, Lime	2881'	3760' R.T.D. Lansing

REMARKS

Cut 12¼" hole to 215' and ran 5 joints new 8 5/8" X 20# X 201.19' surface casing. Set at 210.69' and cemented with 140 sacks 60/40 poz mix, 3% cc, 2% gel. Cement did circulate. P.D. at 10:30 p.m., 6/21/87.

Ran 1 DST.

Plugged hole with 200 sacks 60/40 poz mix, 6% gel, 3% cc as follows:
25 sacks @ 1950'
100 sacks @ 1075' plus 1 sack hulls
40 sacks @ 260'
10 sacks @ 40'; circulated
P.D. @ 5:15 p.m., 6/26/87

****

STATE OF KANSAS)
) SS:
COUNTY OF McPHERSON)