

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

ORIGINAL

APR NO. 15- 155-21,220-00-00

County Reno

- N2 - SE - SE Sec. 23 Twp. 24 Rge. 5 ^E _W

990 Feet from S (circle one) Line of Section

660 Feet from E (circle one) Line of Section

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

Lease Name BONTRAGER Well # 1

Field Name _____

Producing Formation Mississippi

Elevation: Ground 1499' KB 1507'

Total Depth 3860' PBDT 3523'

Amount of Surface Pipe Set and Cemented at 626 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan Alt 1 2-2-93
(Data must be collected from the Reserve Pit)

Chloride content 20,000 ppm Fluid volume 80 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

Operator: License # 5663

Name: Hess Oil Company

Address P.O. Box 1009

city/state/zip McPherson, KS 67460

Purchaser: _____

Operator Contact Person: Bryan Hess

Phone (316) 241-4640

Contractor: Name: Mallard JV, Inc.

License: 4958

Wellsite Geologist: James C. Hess

Designate Type of Completion
 New Well _____ Re-Entry _____ Workover ^{ok}

_____ Oil _____ SWD _____ SOW Temp. Abd.

_____ Gas _____ ENHR _____ SIGW

_____ Dry _____ Other (Core, MSW, 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 _____ PBDT

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

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

9-29-92 10-7-92 1-26-93
Spud Date Date Reached TD Completion Date

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.

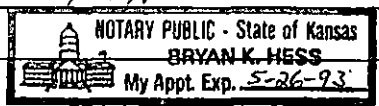
Signature [Signature]

Title Vice-President Date 1-26-93

Subscribed and sworn to before me this 26th day of January, 19 93.

Notary Public [Signature]

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
STATE CORPORATION COMMISSION
Log Received
Report Received
DISTRICT COMMISSIONER
JAN 28 1993
CONSERVATION DIVISION
WICHITA, KANSAS
1-28-93

Operator Name Hess Oil Company Lease Name BONTRAGER Well # 1

Sec. 23 Twp. 24 Rge. 5 East West County RENO Reno

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.)

Log Formation (Top), Depth and Datum Sample
Name Top Datum
(See Attached)

List All E.Logs Run:
Dual Induction Laterolog
Compensated Density Dual Spaced Neutron

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
Conductor	12-1/4"	10-3/4"	32	339'	60/40 poz	210	2% gel, 3% cc
Surface	9-7/8"	8-5/8"	23	626'	60/40 poz	70	2% gel, 3% cc
Production	7-7/8"	5-1/2"	15.5	3523'	EA-2	150	

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1	3395, 3400' - 01'	Acidized w/100 gal. 15% HCl, & Frac w/543 bbl. water, 5000# sand.	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production (SUD or Inj.) 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 Perf. Dually Comp. Commingled Other (Specify) Production Interval

P.O. BOX 1009
 McPHERSON, KANSAS 67460-1009
 (316) 241-4640

BONTRAGER #1
 N2 SE SE, Sec. 23-24S-5W
 Reno County, Kansas

FORMATION SAMPLE TOPS

Brown Lime	2658'	(-1151')
Lansing	2679'	(-1172')
Kansas City	2916'	(-1409')
Mississippi	3365'	(-1858')
Kinderhook	3564'	(-2057')
Misner	3698'	(-2191')
Hunton	3709'	(-2202')
Maquoketa	3736'	(-2229')
Viola	3812'	(-2305')
Simp. Sand	3841'	(-2334')
RTD	3860'	(-2353')

DST #1: 3370'-3400'. Times: 60-45-60-45. Strong blow - bottom of bucket in 3 minutes, gas to surface in 55 minutes. 2nd Blow: Strong blow, gas to surface throughout. Recovered 65' slightly gas cut mud w/oil specks in tool (5% gas, 95% mud). IH-1596, IF-32-44, ISIP-351, FF-44-50, FSIP-355, FH-1569. Temp. 107.

DST #2: 3830'-3860'. Times: 60-45-60-45. Strong blow - bottom of bucket in 30 seconds. 2nd Blow: Strong blow - bottom of bucket in 2 minutes. Recovered 2750' Sulfur water (chl. 28,000 ppm). IH-1819, IF-291-1213, FF-1183-1288, ISIP-1290, FSIP-1308, FH-1755.

RECEIVED
 STATE CORPORATION COMMISSION
 JAN 28 1993
 CONSERVATION DIVISION
 WICHITA, KANSAS

ORIGINAL

MALLARD JV, INC.
DRILLING CONTRACTORS
P. O. Box 1009 McPherson, KS 67460

DRILLER'S LOG

OPERATOR: Hess Oil Company P. O. Box 1009 McPherson, KS 67460	WELL: Bontrager #1 API #: 15-155-21,220-00-00
COMMENCED: September 29, 1992	LOCATION: N2 SE SE 990' FSL, 660' FEL Section 23, Township 24S, Range 5W Reno County, KS
COMPLETED: October 7, 1992	
TOTAL DEPTH: 3860'	ELEVATION: 1499' GL, 1507' KB

STATUS:	Set Casing – Mississippi Formation
SPUD:	4:20 pm 9/29/92
SIZE HOLE DRILLED:	12-1/4" x 340'
CONDUCTOR CASING:	10-3/4" x 32# x 339.83' (8 jts.)
SET AT:	339'
CEMENT:	210 sacks 60/40 Pozmix, 2% gel, 3% cc
SIZE HOLE DRILLED:	9-7/8" x 629'
SURFACE CASING:	8-5/8" x 23# x 616.37' (15 jts.)
SET AT:	625.97'
CEMENT:	70 sacks 60/40 Pozmix, 2% gel, 3% cc
SIZE HOLE DRILLED:	7-7/8" x 3860'
PRODUCTION CASING:	5-1/2" x 15.5# x 3515' (110 jts.)
SET AT:	3523'
CEMENT:	150 sacks EA-2
PD:	12:00 pm 10/7/92
DRILL STEM TESTS:	2
ELECTRIC LOG:	Yes

*** CERTIFICATE ***

I, Dick Hess, Vice-President of Mallard JV, Inc., hereby certify that this is a true and correct copy of the log of the Bontrager #1 well as reflected by our files.

Dick Hess

Dick Hess, Vice-President

STATE OF KANSAS }
COUNTY OF McPHERSON } ss.

Subscribed and sworn to before me this 15th day of October, 1992.

NOTARY PUBLIC - State of Kansas
BRYAN K. HESS
My Appt. Exp. 5-26-93

Bryan K Hess
Notary Public

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JAN 28 1993
CONSERVATION DIVISION
WICHITA, KANSAS

ORIGINAL

WELL DATA

FIELD _____ SEC. 24 TWP. 5 COUNTY Beard STATE Ks

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			5 1/2	0	3.525	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-7</u>	DATE <u>10-7</u>	DATE <u>10-7</u>	DATE <u>10-7</u>
TIME <u>7:00</u>	TIME <u>6:00</u>	TIME	TIME <u>1:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Blessing 52160</u>		
<u>Kenneth 26411</u>	<u>3471</u>	<u>Lot B and</u>
	<u>3703</u>	<u>Haris</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE	<u>1</u>	<u>Haws</u>
CENTRALIZERS	<u>4</u>	
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>"</u>
HEAD	<u>1</u>	<u>"</u>
PACKER	<u>1</u>	<u>"</u>
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENISTY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL.-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB Acid string

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Q. J. H.

HALLIBURTON OPERATOR M. H. J. COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>	<u>FH-2</u>		<u>B</u>	<u>5th col surf, 75% Haled 322</u> <u>12% 5th Kil' Spende</u>	<u>1.28</u>	<u>16.01</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL 13 TYPE acid flush

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 96.8

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL 34.2

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL 132.0

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 14 REASON Shor

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CONSTITUTION DIVISION
WICHITA, KANSAS

CUSTOMER Acid string
LEASE Beattiger
WELL NO. 1
JOB TYPE Acid string
DATE 10-7-92

JOB LOG

WELL NO. 1 LEASE Bentley TICKET NO. 276816

CUSTOMER Hess PAGE NO. _____

ORIGINAL

JOB TYPE long strings DATE 10-7-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	6:00							on location
	10:16				1			Break 2, 4
	11:16		0		1	300		Pump mud flush
	11:31		12		1			mud flush in
	11:23		12		1	1100		Start to mix cement
	11:31		46.2		1	300		Cement mix
								wash out line Release Plug
	11:34		116.2		1	300		Start Disp
	11:47		131.7		1	1100		land plug
	11:48							check float ok
								Run m-l 3504
								Wash up
								Rock up
								Thank you

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3471-P

JAN 28 1993
CONSERVATION DIVISION
WICHITA, KANSAS

CUSTOMER