KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5663	API No. 15 - 135-24961-00-00
Name: Hess Oil Company	Spot Description: Approx
Address 1: P. O. Box 1009	SE_NE_SE_NE_Sec. 6 Twp. 16 S. R. 22 East West
Address 2:	1655 Feet from 🕡 North / 🗌 South Line of Section
City: McPherson State: KS Zip: 67460 + 1009	Feet from East / West Line of Section
Contact Person: Bryan Hess	Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 241-4640	☑NE □NW □SE □SW
CONTRACTOR: License # 4958	County: Ness
Name: Mallard JV, Inc.	Lease Name: Wanda B Well #: 1
Wellsite Geologist: James C. Hess	Field Name: Waring
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: 2368 Kelly Bushing: 2373
New Well Re-Entry Workover	Total Depth: 4370' Plug Back Total Depth:
Oil SWD SIOW	Amount of Surface Pipe Set and Cemented at: 212 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set:Feet
Other	If Alternate II completion, cement circulated from:
(Core, WSW, Expl., Cathodic, etc.)	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows: Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) 12-1-09
Original Comp. Date: Original Total Depth:	12-101
Deepening Re-perf Conv. to Enhr Conv. to SWD	Chloride content: ppm Fluid volume: bbls
Plug Back: Plug Back Total Depth	Dewatering method used:
Commingled Docket No.:	Location of fluid disposal if hauled offsite:
Dual Completion	Operator Name:
Other (SWD or Enhr.?) Docket No.:	Lease Name: License No.:
10/17/2009 10/23/2009 10/23/2009	Quarter Sec TwpS. R
Spud Date or Recompletion Date Date Reached TD Recompletion Date Completion Date or Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workover or of side two of this form will be held confidential for a period of 12 months if re-	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confidenell report shall be attached with this form. ALL CEMENTING TICKETS MUST arm with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate are complete and correct to the best of my knowledge.	the oil and gas industry have been fully complied with and the statements herein
Signature: Hen	KCC Office Use ONLY
Title: President Date: 11/20/2009	Letter of Confidentiality Received
Subscribed and sworn to before me this <u>20th</u> day of <u>November</u>	, If Denied, Yes Date:
20 09.	Wireline Log Received
Notary Public: CAROLA. I Notary Public - Ste	te of Kansas UIC Distribution
Date Commission Expires: My Appt. Expires June	KCC WICHITA

Side Two

7.7	\$ A 1 0th 1 m	•,		5	Side Two				, ,
Operator Name: Hess	Oil Company				se Name: _	Nanda R		1	
Sec. 6 Twp. 16					se Name: <u> </u>			Well #: <u>1</u>	-
INSTRUCTIONS: Sho time tool open and clos recovery, and flow rate surveyed. Attach final	ow important tops an sed, flowing and shu s if gas to surface te	d base of t-in press st, along	f formations pene sures, whether sh	etrated. nut-in pr	Detail all c	ores. Report all	, hydrostatic	pressures, bottom	hole temperature, flui
Drill Stem Tests Taken (Attach Additional S	heets)	✓ Y	∕es □No			og Formatio	n (Top), Dep	th and Datum	Sample
Samples Sent to Geolo Cores Taken Electric Log Run (Submit Copy)	ogical Survey		∕es ☑ No		Nam	e		Тор	Datum
List All E. Logs Run: Radiation Gua	ard	_							
		Rep	CASING F ort all strings set-co				ion. etc.		
Purpose of String	Size Hole Drilled	Si	ze Casing et (In O.D.)	٧	Veight os. / Ft.	Setting Depth	Type o		Type and Percent Additives
Surface	12-1/4"	8-5/8"		20		212'	common	140	2% gel, 3% cc
Purpose: —— Perforate —— Protect Casing —— Plug Back TD —— Plug Off Zone	Depth Top Bottom	Турс	ADDITIONAL e of Cement		ITING / SQU	JEEZE RECORD	•	and Percent Additives	5
Shots Per Foot			RD - Bridge Plugs Each Interval Perfo		oe .			ement Squeeze Reco of Material Used)	rd Depth
TUBING RECORD:	Size:	Set At	:	Packe	r At:	Liner Run:	Yes [No	
Date of First, Resumed F	Production, SWD or Ent	nr.	Producing Metho	od:	Flowing	g Pumpi	ng 🗆 G	Sas Lift Oth	ner (Explain)
Estimated Production Per 24 Hours	Oil	3bls.	Gas 1	Mcf	Wat		bls.	Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	=	M Open Hole Other (Specify)	ETHOD Perf.	OF COMPLE		mmingled	PRODUCT	ON INTERVAL:

P.O. BOX 1009 McPHERSON, KANSAS 67460-1009 (620) 241-4640

ACO-1 Completion Form Attachment

Wanda B #1 Approx. SE NE SE NE 1655' FNL, 140' FEL, Section 6-16-22W Ness County, Kansas API# 15-135-24961-00-00

Elevation: 2373' KB

FORMATION	SAMPLE TOP	DATUM
Anhydrite	1716'	(+657')
Base Anhydrite	1754'	(+619')
Heebner	3731'	(-1358')
Toronto	3749'	(-1376')
Lansing	3768'	(-1395')
Stark Shale	3980'	(-1607')
Base Kansas City	y 4032'	(-1659')
Marmaton	4057'	(-1684')
Pawnee	4134'	(-1761')
Fort Scott	4223'	(-1850')
Cherokee Shale	4246'	(-1873')
Cherokee Sand	4329'	(-1956')
RTD	4370'	(-1997')
LTD	4372'	(-1999')

DST #1

Depth: 4243' - 4333'

<u>Times</u>: 45-45-45

Blows: IF – weak to a strong in 45 min.

FF – weak to a free blow ½" to 6"

Recoveries: 90' Mud, 420' MW (30% M, 70% W)

<u>Pressures</u>: IH 2202#, IF 26-189#, ISI 1271#, FF 190-286#, FSI 1266#, FH 2097#

RECEIVED
NOV 2 3 2009
KCC WICHITA

QUALITY OILWELL CEMENTING, INC.

, .							40 0700F		No.	3001
Phone 785-483-2025 Cell 785-324-1041		Но	me Office	P.O. Bo	x 32	Russell, I	KS 67665		140.	
Jen 103-324-1041	Sec.	Twp.	Range	0	ounty		State	On Loc	ation	Finish
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Date 10-17-09	<u> </u>	10	22_	_ 	હડડ	Pasi	rell Ks			
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Contractor MONDRO	Oslo	}			Owner		z W 3 cementing, In	3/4 15 W	MAC	
Type Job Surface							uppend to ter	st comenting e	quipment	and turnish
Hole Size 1214		T.D.	212						ctor to do	work as listed.
Csg. 878		Depth	212		Charge To	HE	55 D.L	Co.		
Tbg. Size		Depth			Street		<u>.,</u>			
Tool		Depth			City		<u> </u>	State		
Cement Left in Csg.		Shoe Jo	oint /5'		The ab	ove was done	to satisfaction	and supervision	n of owner a	agent or contractor.
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Meas Line	EQUIP		- , , , , , , , , , , , , , , , , , , ,		Amou	nt Ordered	/40 sx	< Comma	3 290 E	213%4
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Bulktrk PV Drive			DVS		+	- Series			·	
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Signature .										

QUALITY OILWELL CEMENTING, INC.

3871 Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 Range County On Location Sec. Twp. State

Date 10-23-09 6	16 22	· _]	VESS	<u> </u>			0.0	
Lease Wanps W	Vell No.B # [Location	on [5	mownell K	, .>			
Contractor MALLARO I	pela		Owner	21/2 (JOYRU	34	Wis.	DHR
Type Job PTA	,		You are be	Oilwell Cementi ereby requested	to rent cementi	ng equipme	ent and fur	nish
Hole Size 77/8	T.D. 4370		cementer	and helper to as	sist owner or co	ontractor to	do work as	s listed.
Csg.	Depth		Charge To	HES	SOL	<u>(Ö.</u>		
Tbg. Size 412 D.P	Depth		Street	•				
Tool	Depth		City	 	State			
Cement Left in Csg.	Shoe Joint	··	The above	was done to satisf		vision of own	er agent or	contractor.
Meas Line	Displace			50-	CEMENT) - Kal	11/1/2	TEL
EQUIPM	_			rdered <u>300</u> 9	x 60/40 K	12 491	2C 19	UF-
Pumptrk S Helper	0 2		Common	1800				
BUIKITK 1 Driver NCH	18		Poz. Mix	1200				
Bulkirk P Driver	190		Gel.	100				<u> </u>
JOB SERVICES	& REMARKS		Calcium					
Remarks:	·	 	Hulls					
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		*/	J				<u> </u>	

HESS OIL COMPANY

225 N. Market, Suite 300 Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

WANDA #B - 1

3070' FSL, 140' FEL of

SECTION 6 - 16S - 22W

NESS COUNTY, KANSAS

Commenced: 10-17-09

Surface Pipe: 8-5/8" @ 212' KB

Completed:

10-25-09

Elevations: 2368' GR, 2373' Kl

MOV 23 2009
ACC WICHTA

Contractor: Mallard J.V.

Production Pipe: none

One foot drilling time was kept from 1680 to 1760' KB and from 3600' to rotary total depth. Ten foot drilling samples were kept from 4100' to RTD (wet & dry).

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

ANHYDRITE	1716	(+657)
BASE ANHYDRITE	1754	(+619)
HEEBNER	3731	(-1358)
TORONTO	3749	(-1376)
LANSING	3768	(-1395)
STARK SHALE	3980	(-1607)
BASE KANSAS CITY	4032	(-1659)

HESS OIL COMPANY

225 N. Market, Suite 300 Wichita, Kansas 67202

(316) 263-2243

Wanda B-1 Page 2

MARMATON 4057 (-1684)

PAWNEE 4134 (-1761)

FORT SCOTT 4223 (-1850)

CHEROKEE SHALE 4246 (-1873)

4262-70' KB Light grey, very finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline poro-

sity, no odor, slight stain, and a weak cut.

CHROKEE SAND 4329 (-1956)

4329-33' KB Clear, medium grainned, well sorted, fairly rounded, sandstone clusters & loose grains. Fair show of free oil in good intergrannular porosity, no odor, good

stain, and a good cut. (some heavy tar stain !?!)

DRILL STEM TEST #1 4243-4333' KB 90' Anchor

> Blow: slow build to BOB in 45 min. 2nd - slow build

to 6".

Times: Open 45, Closed 45, Open 45, Closed

Recovered: 90' Mud 420' Mud Cut SW (70% SW, 30% M)

Pressures: ΙH 2043# IF 26 - 189# ISIP 1271# FH 2000# FF 190 - 286# FSIP 1266#

4333-40' KB Clear, fine to medium grainned, well sorted, well

rounded, sandstone clusters & loose grains.

Some white, sharp, cherts. Weak show of free oil in free tar good intergrannular porosity, no odor,

stain, and a weak cut.

ROTARY TOTAL DEPTH 4370 (-1997)

The unusually A radiation guard log was run to conferm tops. upper show (below the Cherokee Shale) was included in DST #1. There were a few oil shows in the top of the tool on DST#1. The Wanda B-1 was plugged on 10-23-09.

> James C. Hess Geologist



Prepared For: Hess Oil Copany

P O Box 1009

McPherson Ks 67480-1009

DST#: 1

ATTN: Jamie Hess

6-16s-22w Ness KS

Wanda B#1

Start Date: 2009.10.22 @ 20:54:29

End Date: 2009.10.23 @ 04:09:23

Job Ticket #: 36684

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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Hess Oil Copany

Wanda B#1

PO Box 1009

McPherson Ks 67480-1009

Job Ticket: 36684

6-16s-22w Ness KS

DST#: 1

ATTN: Jamie Hess

Test Start: 2009.10.22 @ 20:54:29

GENERAL INFORMATION:

Time Test Ended: 04:09:23

Formation:

Miss

Deviated:

No Whipstock: Time Tool Opened: 22:38:24

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

Reference Bevations:

2373.00 ft (KB)

KB to GR/CF:

2368.00 ft (CF) 5.00 ft

Interval: Total Depth:

Hole Diameter:

Serial #: 8365

Press@RunDepth:

4243.00 ft (KB) To 4333.00 ft (KB) (TVD)

4333.00 ft (KB) (TVD)

7.85 inches Hole Condition: Fair

Capacity:

8000.00 psig

Start Date:

Inside

4246.01 ft (KB) 286.88 psig @

2009.10.23

Last Calib.:

2009.10.23

Start Time:

2009.10.22 20:54:29 End Date: End Time:

04:09:23

Time On Btm:

2009.10.22 @ 22:36:54

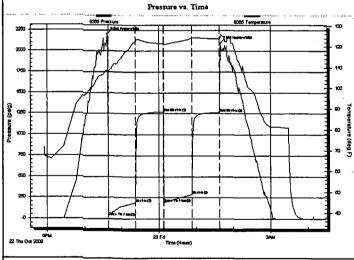
Time Off Btm:

2009.10.23 @ 01:38:53

TEST COMMENT: IFP- wk to a strg in 45 min

FFP-wk to a fr bl 1/2"to 6"bl

Times 45-45-45 no bl on shut-in



		PRESSURE SUMMARY									
130	1	Time	Pressure	Temp	Annotation						
120		(Min.)	(psig)	(deg F)							
_		. 0	2202.22	108.53	Initial Hydro-static						
110	1	2	26.95	107.78	Open To Flow (1)						
100		46	189.36	122.80	Shut-In(1)						
ec	٦,	90	1271.29	121.49	End Shut-In(1)						
	Temper	91	190.75	121.12	Open To Flow (2)						
80	ature	136	286.88	124.21	Shut-In(2)						
70	erature (deg F)	181	1266.24	123.81	End Shut-In(2)						
	ن	182	2097.58	124.32	Final Hydro-static						
80	٠										
60											
40											
-											
		٠.,									
		1			l ,						

Recovery							
Length (ft)	Description	Valume (bbl)					
90.00	Mud	4426.05					
420.00	MW 30%M70%W	7380.54					
·							
	+						
·		·					

	Gas Rat	es	
_	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 36684

Printed: 2009.10.27 @ 13:41:06 Page 2



TOOL DIAGRAM

Hess Of Copany

Wanda B#1

PO Box 1009

6-16s-22w Ness KS

Job Ticket: 36684

DST#:1

ATTN: Jamie Hess

McPherson Ks 67480-1009

Test Start: 2009.10.22 @ 20:54:29

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3984.00 ft Diameter: 0.00 ft Diameter: Length: 240.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume:

55.89 bbl 0.00 bbl 225.00 inches Volume: 11802.81 bbl

Tool Weight: Weight set on Packer: 25000.00 lb Weight to Pull Loose: 65000.00 lb

2200.00 lb

9.00 ft

Total Volume: 11858.70 bbl

Tool Chased String Weight: Initial 0.00 ft

Depth to Top Packer: Depth to Bottom Packer:

Drill Pipe Above KB:

4243.00 ft

52000.00 lb Final 53000.00 lb

Interval between Packers: Tool Length: Number of Packers:

90.02 ft 118.02 ft

2

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Seriai No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4216.00		
Shut In Tool	5.00			4221.00		
Hydraulic tool	5.00			4226.00		
Jars	5.00			4231.00		
"Safety Joint"	2:00			4233.00		and the second of the second o
Packer	5.00	•		4238.00	28.00	Bottom Of Top Packer
Packer	5.00			4243.00		Dotton Of Top Facker
Stubb	1.00			4244.00	•	
Perforations	2.00	•		4246.00		
Recorder	0.01	·8365	Inside	4246.01		
Recorder	0.01	6625	Outside	4246.02	•	
Blank Spacing	64.00			4310.02		
Perforations	20.00			4330.02		
Bullnose	3.00			4333.02	90.02	Bottom Packers & Anchor

Total Tool Length:

118.02

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FLUID SUMMARY

Hess Oil Copany

Wanda B#1

PO Box 1009

McPherson Ks 67480-1009

Job Ticket: 36684

ft

bbl

psig

6-16s-22w Ness KS

DST#: 1

ATTN: Jamie Hess

Test Start: 2009.10.22 @ 20:54:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal

Viscosity: Water Loss: 49.00 sec/qt 9.93 in³

Resistivity:

ohm.m 3000.00 ppm

Salinity: Filter Cake:

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity:

22000 ppm

2.00 inches

Recovery Information

Recovery Table

Length Description Volume ft ppl 90.00 Mud 4426.053 420.00 MW 30%M70%W 7380.543

Total Length:

510.00 ft

Total Volume:

11806.596 bbl

Num Fluid Samples: 0

Num Gas Bombs: . 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .33 @ 65F

