

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 31958
Name: Hesse Petroleum Company, L.L.C.
Address: 400 N. Woodlawn, Suite #7
City/State/Zip: Wichita, Kansas. 67208
Purchaser: na
Operator Contact Person: Phil Hesse
Phone: (316) 685-4746
Contractor: Name: Sterling Drilling Co.
License: 5142

API No. 15-~~3155~~-21445-0000 **ORIGINAL**
County: Reno
N/2 NW Sec. 20 Twp. 24 S. R. 9 East West
600' feet from (N) (circle one) Line of Section
1320' feet from (W) (circle one) Line of Section

Wellsite Geologist: Steve Stribling
Designate Type of Completion: **RECEIVED**
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. **DEC 13 2000**
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)
If Workover/Re-entry: Old Well Info as follows:

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE **(NW)** SW
Lease Name: Singleton Well #: 1-20
Field Name: Plevna South

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____
8/28/00 9/3/00 9/3/00
Spud Date or Date Reached TD Completion Date or Recompletion Date

Producing Formation: na
Formation: Ground: 1680' Kelly Bushing: 1689'
Total Depth: 3878' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 237KB Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D2A 97 6/26/00
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used Haul Off
Location of fluid disposal if hauled offsite: _____
Operator Name: C&C Tank Service
Lease Name: Roach License No.: 30708
Quarter _____ Sec. 14 Twp. 23 S. R. 9 East West
County: Reno Docket No.: 22208

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: Phil Hesse
Title: Partner Date: December 5, 2000
Subscribed and sworn to before me this 5TH day of DECEMBER, 2000
Notary Public: DAVID C. HESSE
My Appt. Expires: 10/16/04

KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
KCC

Operator Name: Hesse Petroleum Company, L.L.C. Lease Name: Singleton Well #: 1-20

Sec. 20 Twp. 24 S. R. 9 East West County: Reno

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: <u>DIL, CNL, CDL</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;"><input checked="" type="checkbox"/> Log</td> <td style="width:55%;">Formation (Top), Depth and Datum</td> <td style="width:15%;"><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Heebner Shale</td> <td>3120</td> <td>-1431</td> </tr> <tr> <td>Lansing</td> <td>3327</td> <td>-1638</td> </tr> <tr> <td>B/KC</td> <td>3665</td> <td>-1976</td> </tr> <tr> <td>Mississippian</td> <td>3774</td> <td>-2085</td> </tr> <tr> <td>Kinderhook, Shale</td> <td>3846</td> <td>-2157</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Heebner Shale	3120	-1431	Lansing	3327	-1638	B/KC	3665	-1976	Mississippian	3774	-2085	Kinderhook, Shale	3846	-2157
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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	# Sacs Used	Type and Percent Additives
Surface	12 1/2"	8 5/8"	24#	237	60/40	190	3%gel-2%cc

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

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
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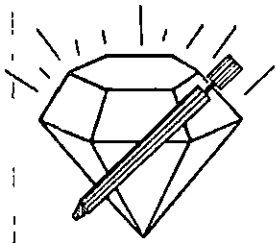
Date of First, Resumed Production, SWD or Enhr.	Producing Method
<u>D & A</u>	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>		

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Other (Specify) _____

Production Interval Commingled _____



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

15-155-21445-0000

RELEASED

ORIGINAL

DEC 17 2001

Page 1 of 5 Pages

FROM CONFIDENTIAL

Company Hesse Petroleum Co., L.L.C. Lease & Well No. Singleton No. 1-20

Elevation _____ Formation Mississippi Effective Pay 20 Ft. Ticket No. 1502

Date 9-2-00 Sec. 20 Twp. 24S Range 9W County Reno State Kansas

Test Approved By Steve Stribling Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,746 ft. to 3,792 ft. Total Depth 3,792 ft.

Packer Depth 3,741 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Packer Depth 3,746 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,734 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,789 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi

Drilling Contractor Sterling Drilling Company Drill Collar Length 249 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length --- ft. I.D. --- in.

Weight 9.5 Water Loss 8.8 cc. Drill Pipe Length 3,472 ft. I.D. 3 1/2 in.

Chlorides 5,200 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 46 ft. Size 4 1/2 - FH in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 20 secs. Gas to surface in 2 mins. Weak, 1/2 in., blow back during shut-in. (SEE GAS VOLUME REPORT)

2nd Open: Strong blow. Off bottom of bucket immediately.

Recovered 31 ft. of slightly oil & gas cut mud = .152520 bbls. (Grind out: 1% oil; 20% gas; 79% mud)

Recovered 124 ft. of slightly oil & gas cut mud = .610080 bbls. (Grind out: 1% oil; 24% gas; 75% mud)

Recovered 62 ft. of mud & gas cut oil = .305040 bbls. (Grind out: 6% mud; 39% gas; 55% oil)

Recovered 62 ft. of slightly water & mud cut gassy oil = .583440 bbls. (Grind out: 2% water; 8% mud; 20% gas; 70% oil)

Recovered 279 ft. of TOTAL FLUID = 1.651080 bbls. RECEIVED KANSAS CORPORATION

Remarks Tool Sample Grindout: 2%-water; 20%-gas; 6%-mud; 72%-oil

DEC 17 2001

Time Set Packer(s) 11:53 A.M. Time Started Off Bottom 2:53 P.M. CONSERVA VISION WICHITA KS Maximum Temperature 110 °

Initial Hydrostatic Pressure (A) 1899 P.S.I.

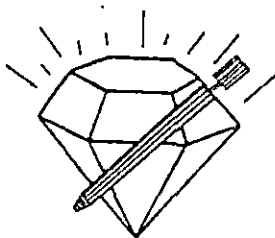
Initial Flow Period Minutes 30 (B) 232 P.S.I. to (C) 219 P.S.I.

Initial Closed In Period Minutes 45 (D) 833 P.S.I.

Final Flow Period Minutes 45 (E) 137 P.S.I. to (F) 123 P.S.I.

Final Closed In Period Minutes 60 (G) 560 P.S.I.

Final Hydrostatic Pressure (H) 1872 P.S.I.



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

15-155-21445-0000

ORIGINAL

FLUID SAMPLE DATA

Company Hesse Petroleum Co., L.L.C.
 Lease & Well No. Singleton No. 1-20
 Date 9-2-00 Sec. 20 Twp. 24 S Range 9 W
 Formation Test No. 1 Interval Tested From 3,746 ft. to 3,792 ft. Total Depth 3,792 ft.
 Formation Mississippi

	RECEIVED KANSAS CORPORATION COMMISSION	MUD PIT	RECOVERY
Viscosity		<u>48</u> CP	<u>52</u> CP
Weight	DEC 13 2000	<u>9.5</u>	<u>9.4</u>
Water Loss		<u>8.8</u> CC	<u>8.8</u> CC
PH Factor	CONSERVATION DIVISION WICHITA, KS	<u>10.5</u>	<u>11.0</u>

RELEASED

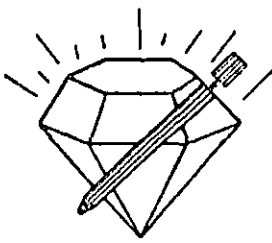
DEC 17 2001

	RESISTIVITY	CHLORIDE CONTENT	FROM CONFIDENTIAL
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm	
Recovery Mud	<u>.60</u> @ <u>104</u> °F.	<u>6,800</u> ppm	
Recovery Mud Filtrate	<u>.62</u> @ <u>103</u> °F.	<u>6,400</u> ppm	
Mud Pit Sample	<u>.64</u> @ <u>100</u> °F.	<u>6,800</u> ppm	
Mud Pit Sample Filtrate	<u>.70</u> @ <u>102</u> °F.	<u>6,000</u> ppm	

Sample Taken By ROGER D. FRIEDLY

Witness By Steve Stribling

Remarks Pit filtrate triton dish chlorides were 5,200 Ppm.
Recovery filtrate triton dish chlorides were 5,000 Ppm.



15-155-21445-0000

ORIGINAL

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Page 3 of 5 Pages

GAS VOLUME REPORT

Company Hesse Petroleum Co., L.L.C. Lease & Well No. Singleton No. 1-20
Date 9-2-00 Sec. 20 Twp. 24 S Rge. 9 W Location _____ County Reno State KS
Drilling Contractor Sterling Drilling Company Formation Mississippi DST No. 1
Remarks: 1st Open: Gas to surface in 2 mins. Burns nicely.

INITIAL FLOW

Open Tool: 11:53 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
11:58 a.m.	1 in.	6 psi	353,000
12:03 p.m.	1 in.	5½ psi	336,000
12:08 p.m.	1 in.	1½ psi	169,000
12:13 p.m.	½ in.	34 psi	253,000
12:18 p.m.	½ in.	40 psi	285,000
12:23 p.m.	½ in.	37 psi	270,000

FINAL FLOW

Open Tool: 1:08 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
1:13 p.m.	½ in.	26 psi	211,000
1:18 p.m.	½ in.	27-28 psi	216,000-222,000
1:23 p.m.	½ in.	22 psi	189,000
1:28 p.m.	½ in.	17 psi	159,000
1:33 p.m.	½ in.	13 psi	134,000
1:38 p.m.	½ in.	10 psi	116,000
1:43 p.m.	½ in.	8½ psi	105,000
1:48 p.m.	½ in.	6½ psi	90,100
1:53 p.m.	½ in.	4½ psi	73,600

* Surging action.

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 13 2000

CONSERVATION DIVISION
WICHITA, KS

RELEASED

DEC 17 2001

FROM CONFIDENTIAL

ALLIED CEMENTING CO., INC. 4262

Federal Tax I.D.# 48-0727860

15-155-21445-0000
SERVICE POINT: ORIGINAL
Mo Bend

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

DATE <u>9-3-00</u>	SEC. <u>20</u>	TWP. <u>24</u>	RANGE <u>9</u>	CALLED OUT <u>7:00 AM</u>	ON LOCATION <u>10/15 AM</u>	JOB START <u>10/15 AM</u>	JOB FINISH <u>12/30 PM</u>
LEASE <u>Singston</u> WELL # <u>1-20</u>			LOCATION <u>50 Langdon Rd - 35, W, W,</u>	COUNTY <u>Deno</u>	STATE <u>Ka</u>		
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/4 E, S/3</u>				

CONTRACTOR <u>Stearling #4</u>	
TYPE OF JOB <u>Rotary Plug</u>	
HOLE SIZE <u>2 7/8</u>	DEPTH <u>10-3880'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2"</u>	DEPTH <u>1450'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

OWNER <u>Same</u>
CEMENT AMOUNT ORDERED <u>140 lbs 60/40 4 1/2 Mol,</u>
COMMON <u>84</u> @ <u>6.35</u> <u>533.40</u>
POZMIX <u>56</u> @ <u>3.25</u> <u>182.00</u>
GEL <u>5</u> @ <u>9.50</u> <u>47.50</u>
CHLORIDE @
HANDLING <u>145</u> @ <u>1.05</u> <u>152.25</u>
MILEAGE <u>30</u> @ <u>5.83</u> <u>174.90</u>

EQUIPMENT RECEIVED
KANSAS CORPORATION COMMISSION

PUMP TRUCK # <u>181</u>	CEMENTER <u>Tom D</u>	DEC 13 2000
BULK TRUCK # <u>341</u>	HELPER <u>Bob B</u>	
BULK TRUCK #	DRIVER <u>Steve T</u>	CONSERVATION DIVISION WICHITA, KS

RELEASED TOTAL \$ 1089.15
DEC 17 2001 SERVICE

REMARKS:

Missed - 35 sh @ 1450'
35 sh @ 850'
25 sh @ 300'
20 sh @ 60'
15 sh in Rothole
10 sh in Narnedale

T. Thanks

FROM CONFIDENTIAL		
DEPTH OF JOB <u>1450'</u>		
PUMP TRUCK CHARGE		<u>470.00</u>
EXTRA FOOTAGE @		
MILEAGE <u>30</u> @ <u>3.00</u>		<u>90.00</u>
PLUG <u>1-8 1/2 Ampule</u> @ <u>23.00</u>		<u>23.00</u>
		TOTAL \$ 583.00

CHARGE TO: Herse Petroleum Inc, LLC
STREET 400 W Woodlawn Suite #17
CITY Wichita STATE Ks ZIP 67208

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE X Darryl Krier

FLOAT EQUIPMENT		
	@	
	@	
	@	
	@	
	@	

TAX <u>—</u>	
TOTAL CHARGE <u>\$ 1672.15</u>	
DISCOUNT <u>\$ 167.21</u>	IF PAID IN 30 DAYS

X DARRYL KRIER
PRINTED NAME
Net \$ 1504.94