

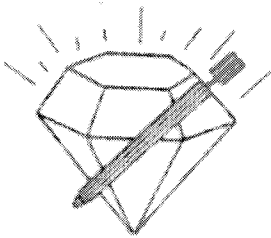
DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

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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.
1st Open: Strong blow. Off bottom of bucket in 20 secs. Gas to surface in 2 mins. Weak, 1 in., blow back during
Blow: 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. KANSAS CORPORATION
Remarks Tool Sample Grindout: 2% water; 20% gas; 6% mud; 72% oil

DEC 1 2000

Time Set Packer(s) 11:53 A.M. Time Started Off Bottom 2:53 P.M. CONSERVA 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.



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

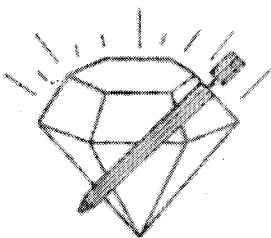
RELEASED

DEC 17 2001

	RESISTIVITY	CHLORIDE CONTENT
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	

FROM CONFIDENTIAL

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.



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GAS VOLUME REPORT

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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.