

HESS OIL COMPANY

Computer Inventoried

COPY

26-11-21W

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

ACO-1 Completion Form Attachment

BERNICE #3

Approx. SE NW NE, Sec. 26-11-21W, Trego County, KS
API #15-195-22,138

DST #1: 3538'-3600'. Times 30-30-30-30. Weak surface blow died in 15 min. 2nd open - no blow. Rec 20' sltly oil specked mud. Pressures IH 1754, IF 70-46, ISI 778, FF 58-58, FSI 746, FH 1650. BHT 109.

DST #2: 3592'-3665'. Times 60-60-60-60. 1/2" blow building to 4.5". 2nd open - surface blow building to 2". Rec 130' watery mud w/ oil specks (10% wtr, 90% mud); & 120' muddy wtr w/ oil specks (60% wtr, 40% mud). Pressures IH 1744, IF 57-100, ISI 209, FF 120-137, FSI 204, FH 1734. BHT 110.

DST #3: 3874'-3895'. Times 30-30-30-30. Very weak surface blow died in 24 min. 2nd open - no blow. Rec 12' clean oil & 3' muddy oil. Pressures IH 1931, IF 2-18, ISI 1119, FF 55-39, FSI 1114, FH 1899. BHT 116.

DST #4: 3892'-3904'. Times 60-60-60-60. Strong blow bottom of bucket in 3 min. 2nd open - 1/2" blow building to bottom of bucket in 8 min. Rec 340' gassy oil (5% gas, 95% oil); 250' gassy oil & wtr cut mud (5% gas, 45% oil, 45% wtr, 5% mud); & 1230' sltly oil specked muddy wtr (90% wtr, 10% mud). Pressures IH 1957, IF 85-505, ISI 1158, FF 546-746, FSI 1162, FH 909. BHT 123.

MICT: Perf 3942-44' w/8 shots. FU 1400' SW. Set plug @ 3936' & perf 3922-24' w/8 shots. FU 1600' SW. Set plug @ 3916' & perf 3896-98' w/8 shots. Swb down & rec 10' oil w/few wtr spots. Overnight FU 200' oil (5% SW). Swb down & acidized w/250 gal 15% MCA w/ Penn 88. Rec 112 bbls SW. Squeezed top perf w/100 sx cmt. Perf 3896-97' w/6 shots. Rec 1 cup OCSW. Acidized w/ 250 gal 15% MCA w/Penn 88. Acid did not go. Re-perf 3896-98'. Pmpd in acid. Rec 100 bbl SW w/oil show. Half hr tests - 30' muddy oil. Overnight FU 300' gas, 150' oil, 250' SW. Half hr test - 20' w/50% muddy oil. Acidized w/250 gal 15% MCA w/Penn 88. Rec 104 bbl SW w/good show oil on last pull. Half hr test - 70' w/50% oil. Swbd 45' w/37% oil/half hr. Acidized w/300 gal 15% MCA w/Penn 88. Perf 3898-99' w/4 holes. Pressure dropped slowly. Perf 3899-3900' w/4 holes. Pmpd in acid. Rec 112 bbl - 10% oil in last 100' pull. Overnight FU 900' gas, 200' oil, 1800' SW. Swbd 200' w/15% oil/half hr. Perf 3880-86' w/12 shots. Isolated zone & acidized w/300 gal 15% MCA w/Penn 88. Rec 20 bbl/hr w/scum oil. Overnight FU (all perfs open) 2700' w/150' oil (5% oil). Swbd 18 bbl/hr, 8% oil.

FINAL COMPLETION:

PBTD @ 3916'
PERFS @ 3880-86' & 3896-3900'
PCP

RECEIVED
STATE CORPORATION COMMISSION

AUG 23 1994

CONSERVATION DIVISION
WICHITA, KANSAS

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BERNICE #3 Test No. 1 Date 5/29/94
Company HESS OIL CO., INC. Zone LKC A & TOR
Address BOX 1009 McPHERSON KANSAS 67460-1009 Elevation 2280
Co. Rep./Geo. JAMES C. HESS Cont. MURFIN DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 11S Rge. 21W Co. TREGO State KS

Interval Tested <u>3538-3600</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>62</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3533</u>	Drill Collar - 2.25 Ft. Run <u>526</u>
Bottom Packer Depth <u>3538</u>	Mud Wt. <u>9.3</u> lb/Gal.
Total Depth <u>3600</u>	Viscosity <u>45</u> Filtrate <u>12.4</u>

Tool Open @ 6:57 PM Initial Blow WEAK SURFACE BLOW - DIED IN 15 MINUTES

Final Blow NO BLOW

Recovery - Total Feet 20 Flush Tool? NO

Rec. <u>20</u>	Feet of <u>SLTLY OIL SPECKED MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1754.6 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 69.7 PSI @ (depth) 3572 w / Clock No. 23839

(C) First Final Flow Pressure 45.9 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 777.6 PSI @ (depth) 3597 w / Clock No. 25109

(E) Second Initial Flow Pressure 57.8 PSI AK1 Recorder No. _____ Range _____

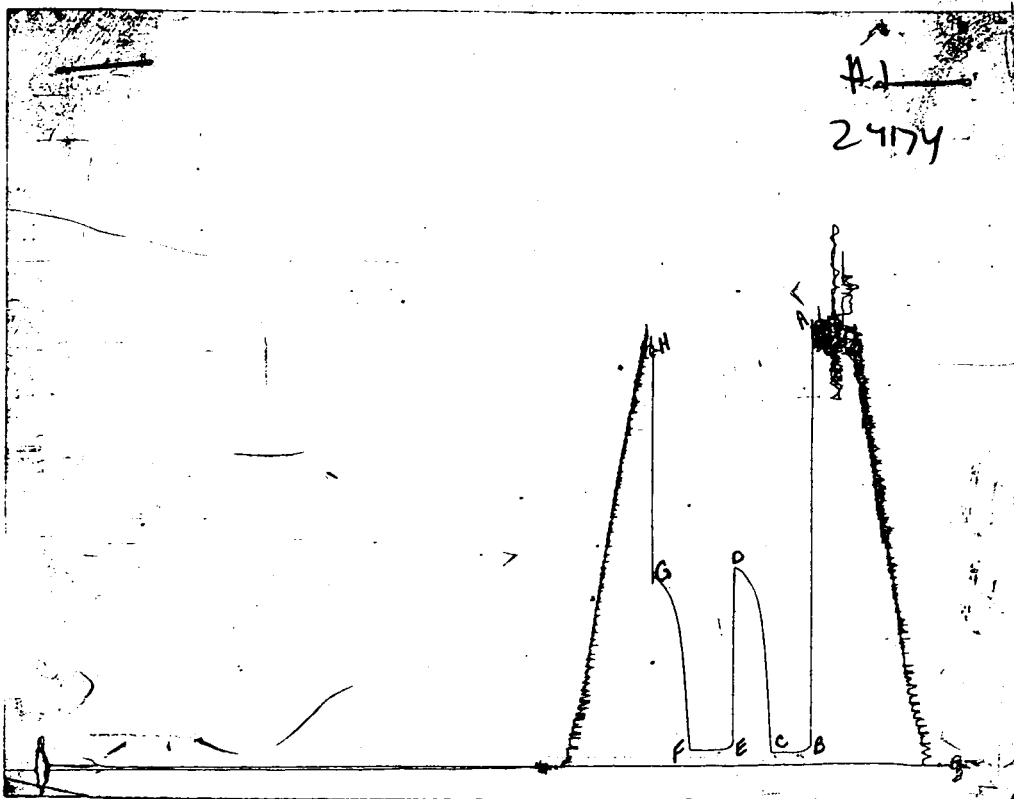
(F) Second Final Flow Pressure 57.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 745.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1649.5 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart # 24174

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1750	1754.6
(B) FIRST INITIAL FLOW PRESSURE	37	69.7
(C) FIRST FINAL FLOW PRESSURE	44	45.9
(D) INITIAL CLOSED-IN PRESSURE	781	777.6
(E) SECOND INITIAL FLOW PRESSURE	52	57.8
(F) SECOND FINAL FLOW PRESSURE	52	57.8
(G) FINAL CLOSED-IN PRESSURE	736	745.6
(H) FINAL HYDROSTATIC MUD	1697	1649.5

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BERNICE #3 Test No. 2 Date 5/30/94
Company HESS OIL CO., INC. Zone LKC - "B & C"
Address BOX 1009 McPHERSON KANSAS 67460-1009 Elevation 2280
Co. Rep./Geo. JAMES C. HESS Cont. MURFIN DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 11S Rge. 21W Co. TREGO State KS

Interval Tested <u>3592-3665</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>73</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3587</u>	Drill Collar - 2.25 Ft. Run <u>294</u>
Bottom Packer Depth <u>3592</u>	Mud Wt. <u>9.3</u> lb/Gal.
Total Depth <u>3665</u>	Viscosity <u>42</u> Filtrate <u>8.8</u>

Tool Open @ 9:50 AM Initial Blow 1/2" BLOW BUILDING TO 4.5"

Final Blow SURFACE BLOW BUILDING TO 2"

Recovery - Total Feet 250 Flush Tool? NO

Rec. <u>130</u>	Feet of <u>WATERY MUD W/ OIL SPECKS-10% WTR/ 90% MUD</u>
Rec. <u>120</u>	Feet of <u>MUDDY WATER W/ OIL SPECKS-60% WTR/ 40% MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.1 @ 99 °F Chlorides 53000 ppm Recovery Chlorides 3800 ppm System

(A) Initial Hydrostatic Mud 1744.1 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 57.4 PSI @ (depth) 3596 w / Clock No. 23839

(C) First Final Flow Pressure 99.6 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 208.8 PSI @ (depth) 3662 w / Clock No. 25109

(E) Second Initial Flow Pressure 119.7 PSI AK1 Recorder No. _____ Range _____

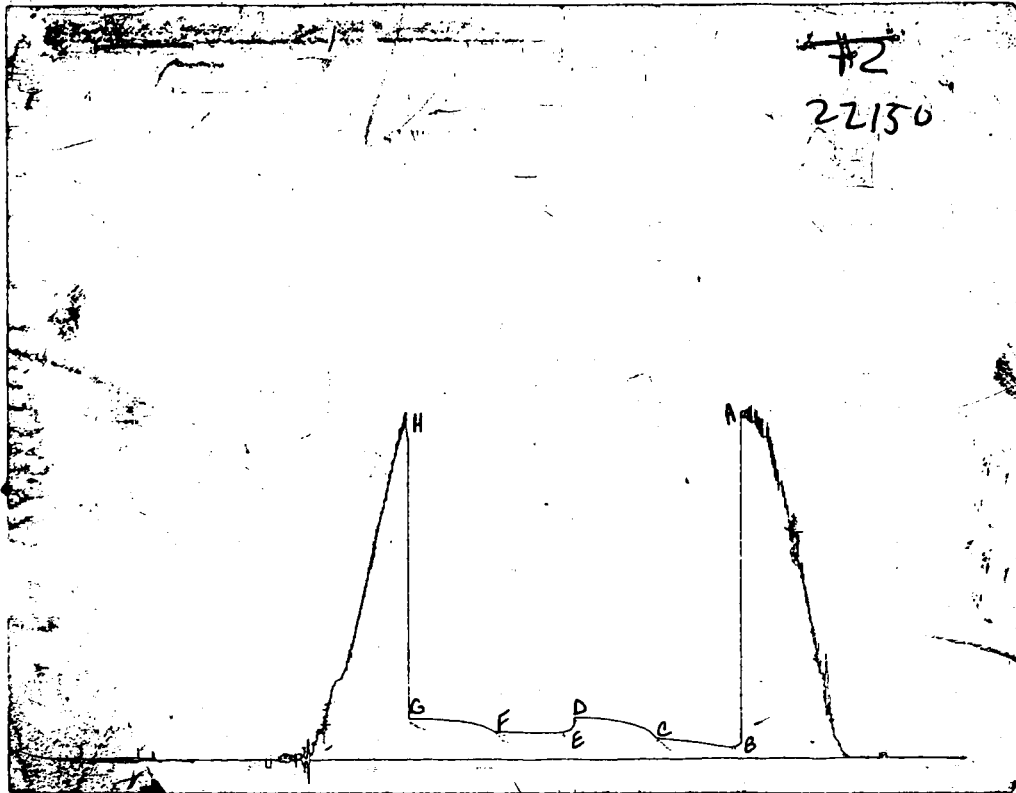
(F) Second Final Flow Pressure 136.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 204.0 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 1734.2 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart # 22150

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1744	1744.1
(B) FIRST INITIAL FLOW PRESSURE	48	57.4
(C) FIRST FINAL FLOW PRESSURE	96	99.6
(D) INITIAL CLOSED-IN PRESSURE	211	208.8
(E) SECOND INITIAL FLOW PRESSURE	124	119.7
(F) SECOND FINAL FLOW PRESSURE	144	136.9
(G) FINAL CLOSED-IN PRESSURE	201	204
(H) FINAL HYDROSTATIC MUD	1734	1734.2

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BERNICE #3 Test No. 3 Date 5/31/94
Company HESS OIL CO., INC. Zone ARBUCKLE
Address BOX 1009 McPHERSON KANSAS 67460-1009 Elevation 2280
Co. Rep./Geo. JAMES C. HESS Cont. MURFIN DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 11S Rge. 21W Co. TREGO State KS

Interval Tested 3874-3895 Drill Pipe Size 4.5" XH
Anchor Length 21 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3869 Drill Collar - 2.25 Ft. Run 294
Bottom Packer Depth 3874 Mud Wt. 9.4 lb/Gal.
Total Depth 3895 Viscosity 51 Filtrate 8.4

Tool Open @ 3:46 PM Initial Blow VERY WEAK SURFACE BLOW DIED IN 24 MINUTES

Final Blow NO BLOW

Recovery - Total Feet 15 Flush Tool? NO

Rec. 12 Feet of CLEAN OIL
Rec. 3 Feet of MUDDY OIL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 116 °F Gravity 30 °API @ 90 °F Corrected Gravity 27 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1930.9 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 2.2 PSI @ (depth) 3880 w / Clock No. 23839

(C) First Final Flow Pressure 18.5 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1119.3 PSI @ (depth) 3892 w / Clock No. 23935

(E) Second Initial Flow Pressure 54.8 PSI AK1 Recorder No. _____ Range _____

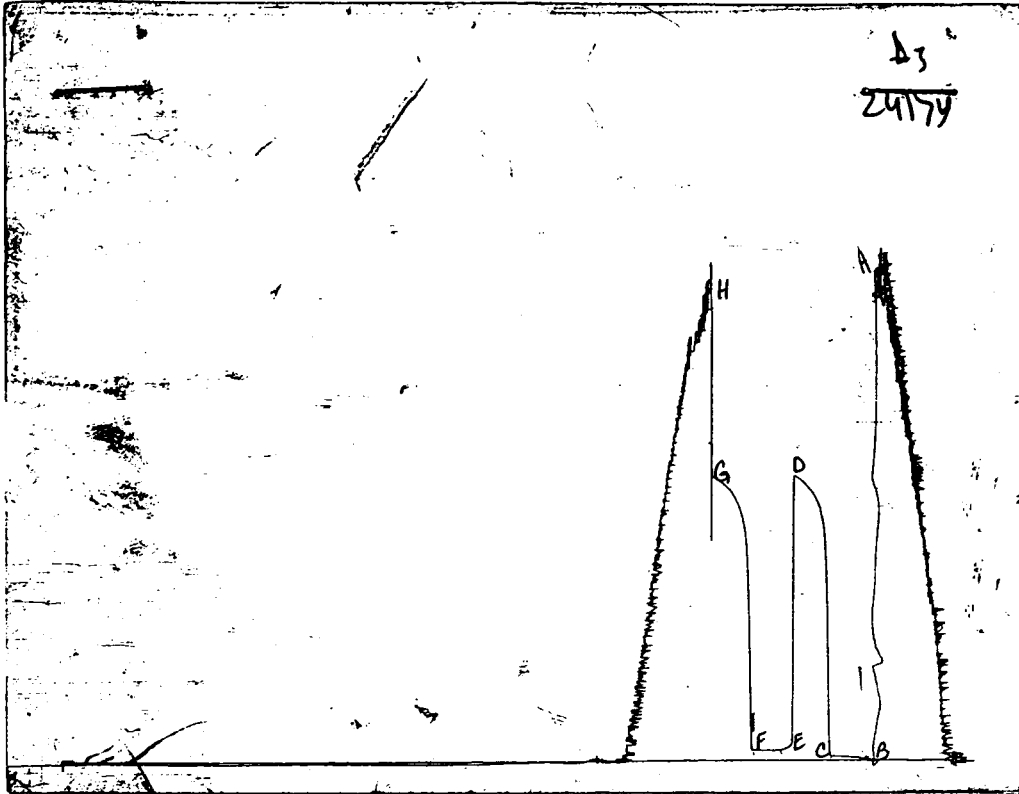
(F) Second Final Flow Pressure 39.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1114.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1899.4 PSI Initial Shut-in 30 Final Shut-in 30

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CHART PAGE



This is an actual photograph of recorder chart # 24174

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1936	1930.9
(B) FIRST INITIAL FLOW PRESSURE	7	2.2
(C) FIRST FINAL FLOW PRESSURE	15	18.5
(D) INITIAL CLOSED-IN PRESSURE	1114	1119.3
(E) SECOND INITIAL FLOW PRESSURE	30	54.8
(F) SECOND FINAL FLOW PRESSURE	30	39.2
(G) FINAL CLOSED-IN PRESSURE	1114	1114.3
(H) FINAL HYDROSTATIC MUD	1904	1899.4

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BERNICE #3 Test No. 4 Date 6/1/94
Company HESS OIL CO., INC. Zone ARBUCKLE
Address BOX 1009 McPHERSON KANSAS 67460-1009 Elevation 2280
Co. Rep./Geo. JAMES C. HESS Cont. MURFIN DRLG RIG #8 Est. Ft. of Pay _____
Location: Sec. 26 Twp. 11S Rge. 21W Co. TREGO State KS

Interval Tested <u>3892-3904</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>12</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3887</u>	Drill Collar - 2.25 Ft. Run <u>294</u>
Bottom Packer Depth <u>3892</u>	Mud Wt. <u>9.4</u> lb/Gal.
Total Depth <u>3904</u>	Viscosity <u>51</u> Filtrate <u>84</u>

Tool Open @ 2:14 AM Initial Blow STRONG-BOTTOM OR BUCKET IN 3 MINUTES

Final Blow 1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 8 MINUTES

Recovery - Total Feet 1820 Flush Tool? NO

Rec. <u>340</u>	Feet of <u>GASSY OIL- 5% GAS/ 95% OIL</u>
Rec. <u>250</u>	Feet of <u>GSY OIL & WTR CUT MUD-5% GAS/ 45%OIL/45%WTR/5% MUD</u>
Rec. <u>1230</u>	Feet of <u>SLTLY OIL SPECKED MUDDY WATER-90% WTR/ 10% MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 123 °F Gravity 28 °API @ 70 °F Corrected Gravity 27 °API
RW 0.21 @ 67 °F Chlorides 34000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1957.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 85.4 PSI @ (depth) 3894 w / Clock No. 25109

(C) First Final Flow Pressure 505.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1158.5 PSI @ (depth) 3901 w / Clock No. 23839

(E) Second Initial Flow Pressure 546.5 PSI AK1 Recorder No. _____ Range _____

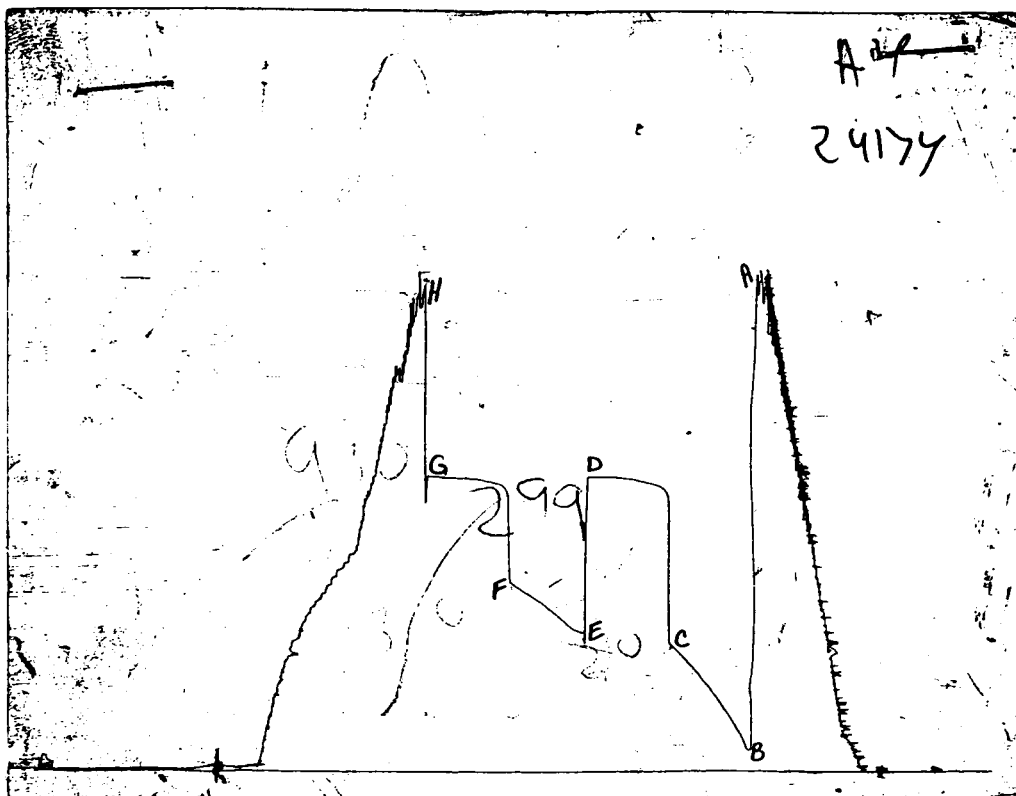
(F) Second Final Flow Pressure 746.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1161.6 PSI Initial Opening 60 Final Flow 60

(H) Final Hydrostatic Mud 1908.6 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart # 24174

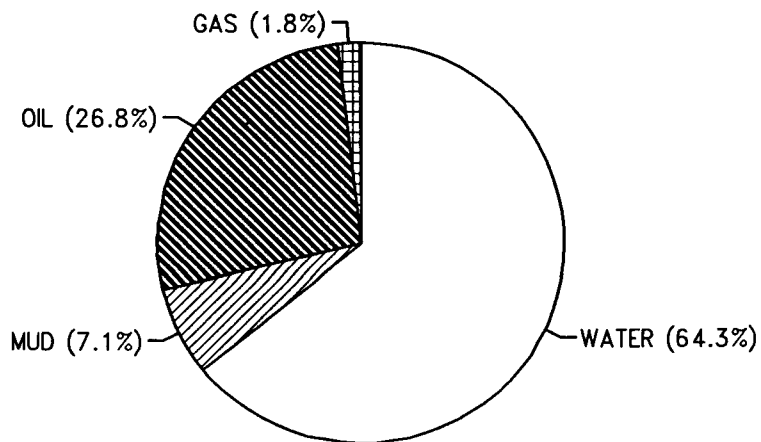
	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1949	1957.2
(B) FIRST INITIAL FLOW PRESSURE	74	85.4
(C) FIRST FINAL FLOW PRESSURE	491	505.2
(D) INITIAL CLOSED-IN PRESSURE	1160	1158.5
(E) SECOND INITIAL FLOW PRESSURE	537	546.5
(F) SECOND FINAL FLOW PRESSURE	743	746.4
(G) FINAL CLOSED-IN PRESSURE	1160	1161.6
(H) FINAL HYDROSTATIC MUD	1919	1908.6

CALCULATED RECOVERY ANALYSIS

DST	4	TICKET # 6598							
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	340	5	17	95	323	0	0	0	0
PIPE 2	250	5	12.5	45	112.5	45	112.5	5	12.5
3	936	0	0	0	0	90	842.4	10	93.6
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	294	0	0	0	0	90	264.6	10	29.4
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1820		29.5		435.5		1219.5		135.5

			HRS OPEN	BBL/DAY
BBL OIL=	6.19281	*	2	74.31372
BBL WATER=	14.872572	*		178.47086
BBL MUD=	1.652508			
BBL GAS =	0.41949			



Hess

WELL NAME Bernice #3 DST # 4 RECORDER # 24174
INIT. HYD. MUD. 2.580 1957.2 FINAL HYD. MUD 2.517 1908.6

INITIAL FLOW		INITIAL SHUTIN		FINAL FLOW		FINAL SHUTIN	
MINUTES	INTERVAL	MINUTES	INTERVAL	MINUTES	INTERVAL	MINUTES	INTERVAL
115	85.4			1	722 546.5		
169		1.456		2	728	1.462	
206		1.475		3	737	1.485	
238		1.485		4	748	1.493	
270		1.491		5	764	1.498	
303		1.497		6	784	1.505	
330		1.501		7	800	1.507	
360		1.506		8	819	1.513	
388		1.511		9	833	1.517	
416		1.516		10	848	1.519	
445		1.519		11	867	1.520	
468		1.521		12	882	1.522	
494		1.524		13	893	1.522	
522		1.527		14	909	1.523	
545		1.528		15	921	1.524	
565		"		16	932	1.524	
588		"		17	946	1.525	
611		"		18	959	1.527	
630		"		19	973	1.529	
650		1.528		20	984 746.4	1.531	
668	505.2	1.528	1158.5	21		1.532	1161.6
				22			
				23			
				24			
				25			
				26			
				27			