

ORIGINAL

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

RECEIVED

JUL 30 1998

Operator: License # 9953 CONSERVATION DIVISION

Name: Harris Oil and Gas Company Wichita, Kansas

Address 1125 Seventeenth Street
Suite 2290

City/State/Zip Denver, CO 80202

Purchaser: N/A

Operator Contact Person: Doug Hoisington

Phone (303) 293-8838

Contractor: Name: Allen Drilling Company RELEASED

License: 5418

Wellsite Geologist: Austin Garner SEP 28 1999

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGM
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Comingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

5/18/98 5/28/98 6/14/98
 Spud Date Date Reached TD Completion Date

APl No. 15- 129-215580000

County Morton

C - NW-SW Sec. 20 Twp. 33S Rge. 42 X ^E _W

1980 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 Rich Smith Well # 2-20

Field Name Wildcat

Producing Formation N/A

Elevation: Ground 3549' KB 3560'

Total Depth 5200' PBDT 3824'

Amount of Surface Pipe Set and Cemented at 1389 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) ART 1 DFW 9-14-98

Chloride content 900 ppm Fluid volume 1000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:
N/A

Operator Name _____

Lease Name KCC License No. _____

Quarter 2 Sec. 20 Twp. _____ S Rng. _____ E/W

County CONFIDENTIAL Docket No. _____

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 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 Doug Hoisington

Title Operations Manager Date 7/28/98

Subscribed and sworn to before me this 28 day of July, 1998.

Notary Public Sammy by Adamek

Date Commission Expires March 31, 2001

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
 C Wireline Log Received
 C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

SIDE TWO

Operator Name Harris Oil and Gas Company

Lease Name Rich Smith

Well # 2-20

Sec. 20 Twp. 33S Rge. 42

East
 West

County Morton

ORIGINAL

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.)

List All E.Logs Run:

**CNS/PDS
DIS
MLS
ACBL**

Log Formation (Top), Depth and Datums Sample
Name Top Datum

See Attached

RECEIVED
STATE CORPORATION COMMISSION

KCC

JUL 5 0 1990

JUL 28 1998

CONSERVATION DIVISION
WICHITA, KANSAS

CONFIDENTIAL

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
Surface	12 1/4"	8 5/8	24	1389'	Midcon/C1 C	415	3% CaCl; 1/4# Floccete
Production	7 7/8"	4 1/2	10.5	3910'	Class H	150	10% NaCl; 7% Cal Seal; 6% Halad

322

ADDITIONAL CEMENTING/SQUEEZE RECORD **N/A**

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JUL 5 0 1990

FROM CONFIDENTIAL

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
4	3669'-3678'	750 gal 7 1/2% DSFE	
CIBP			3650'
4	3493'-3506'	1300 gal 15% DSFE	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
N/A				

Date of First, Resumed Production, SWD or Inj.	Producing Method	Other (Explain)		
N/A	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other			

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

Disposition of Gas: **N/A** METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled

Other (Specify) **Temporary Abandonment**

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SEP 28 1999

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

JUL 30 1998

CONSERVATION DIVISION
Wichita Kansas

15-129-21558

LOG TOPS		DATUM
Kansas City "A"	3492'	+67
Kansas City "C"	3624'	-64
Marmaton	3838'	-278
Cherokee	4074'	-514
Morrow	4380'	-820
Morrow L ₁	absent	
Morrow L ₂	4496'	-936
Morrow Structural Marker	4554'	-894
Morrow L ₃	4602'	-1042
Lower Morrow "G"	4849'	-1289
Keyes	4873'	-1313
St. Louis ϕ	5116'	-1556

KCC
JUL 28 1998
CONFIDENTIAL

ORIGINAL RELEASED

SEP 28 1999



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

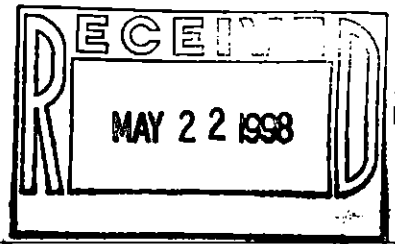
FROM: HALLIBURTON ENERGY SERVICES A Division of Halliburton Company

INVOICE NO.	DATE
196532	05/19/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
RICH SMITH 2-20		MORTON		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL	ALLEN DRILLING	SHOWN BELOW		05/19/1998	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
366550	HAROLD FRAULI			COMPANY TRUCK	41601

ORIGINAL

HARRIS OIL & GAS CO
1125 17TH STREET
SUITE 2290
DENVER, CO 80202



RECEIVED
DIRECT CORRESPONDENCE TO:
P O BOX 1598
LIBERAL KS 67901
JUL 30 1998
CONSERVATION DIVISION
Wichita, Kansas

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	94 MI		3.65	343.10
		1 UNT			
	DISCOUNT-(BID)	38.0 %			130.37-
000-119	MILEAGE FOR CREW	94 MI		2.15	202.10
		1 UNT			
	DISCOUNT-(BID)	38.0 %			76.79-
001-016	CEMENTING CASING	1389 FT		1,630.00	1,630.00
		1 UNT			
	DISCOUNT-(BID)	38.0 %			619.40-
030-018	CEMENTING PLUG 5W, PLASTIC TOP	8 5/8 IN		143.00	143.00
		1 EA			
	DISCOUNT-(BID)	38.0 %			54.34-
12A 825.217	GUIDE SHOE - 8 5/8" 8RD THD.	1 EA		238.00	238.00
	DISCOUNT-(BID)	25.0 %			59.50-
24A 815.19502	INSERT FLOAT VALVE - 8 5/8" 8RD	1 EA		207.00	207.00
	DISCOUNT-(BID)	25.0 %			51.75-
27 815.19415	FILL-UP UNIT 7"- 8 5/8"	1 EA		81.00	81.00
	DISCOUNT-(BID)	25.0 %			20.25-
41 806.61048	CENTRALIZER - 8-5/8 X 12-1/4	4 EA		71.40	285.60

KCC
JUL 28 1998
CONFIDENTIAL

***** CONTINUED ON NEXT PAGE *****

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ORIGINAL

RELEASED



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

SEP 28 1999

HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
196532	05/19/1998

FROM:

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
RICH SMITH 2-20		MORTON		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL		ALLEN DRILLING		SHOWN BELOW	
ACCT. NO.		CUSTOMER AGENT		VENDOR NO.	
366550		HAROLD FRAULI			
				CUSTOMER P.O. NUMBER	
				SHIPPED VIA	
				COMPANY TRUCK	
				FILE NO.	
				41601	

DIRECT CORRESPONDENCE TO:

HARRIS OIL & GAS CO
1125 17TH STREET
SUITE 2290
DENVER, CO 80202

P O BOX 1598
LIBERAL KS 67901

ORIGINAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)	25.0 %			71.40-
320 806.71460	BASKET-CMT-8 5/8 CSG X 21"-SLP	1 EA		146.00	146.00
	DISCOUNT-(BID)	25.0 %			36.50-
350 890.10802	HALLIBURTON WELD-A-AL FILLED	1 EA		18.43	18.43
	DISCOUNT-(BID)	25.0 %			4.60-
504-282	MIDCON-2 PREMIUM PLUS CEMENT	315 SK		18.48	5,821.20
	DISCOUNT-(BID)	38.0 %			2,212.05-
504-050	CEMENT - PREMIUM PLUS KCC	100 SK		15.69	1,569.00
	DISCOUNT-(BID)	38.0 %			596.22-
507-210	FLOCELE	183 LB		2.09	382.47
	DISCOUNT-(BID)	38.0 %			145.33-
509-406	ANHYDROUS CALCIUM CHLORIDE	11 SK		46.90	515.90
	DISCOUNT-(BID)	38.0 %			196.04-
500-207	BULK SERVICE CHARGE	466 CFT		1.66	773.56
	DISCOUNT-(BID)	38.0 %			293.95-
500-306	MILEAGE CMTG MAT DEL OR RETURN	948.52 TMI		1.25	1,185.65
	DISCOUNT-(BID)	38.0 %			450.54-
045-050	COMPUPAC SYSTEM W/HALLIBURTON	1 JOB		760.00	760.00
	DISCOUNT-(BID)	75.0 %			570.00-

***** CONTINUED ON NEXT PAGE *****

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ORIGINAL

RELEASED

SEP 28 1999



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

FROM OF

HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
196532	05/19/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
RICH SMITH 2-20		MORTON		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL		ALLEN DRILLING		SHOWN BELOW	
ACCT. NO.		CUSTOMER AGENT		VENDOR NO.	
366550		HAROLD FRAULI			
				CUSTOMER P.O. NUMBER	
				SHIPPED VIA	
				COMPANY TRUCK	
				TICKET DATE	
				05/19/1998	
				FILE NO.	
				41601	

DIRECT CORRESPONDENCE TO:

HARRIS OIL & GAS CO
1125 17TH STREET
SUITE 2290
DENVER, CO 80202

ORIGINAL

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				14,302.01
	INVOICE SUBTOTAL				14,302.01
	DISCOUNT--(BID)			KCC	5,589.03-
	INVOICE BID AMOUNT				8,712.98
	*--KANSAS STATE SALES TAX				351.56
	*--LIBERAL CITY SALES TAX				71.76
	*--SEWARD COUNTY SALES TAX				107.62
	Vendor # <u>34060</u>				
	Invoice # <u>196532</u>				
	Invoice Date <u>5/19/98</u>				
	Invoice \$ <u>9,243.92</u>				
	Well # <u>26002</u>				
	Charge Date <u>5/98</u>				120-10-11
	Description <u>Cement 85/8 CSG</u>				Acad
	A/P Ref # <u>24811</u>				
	A/P Code <u>120-10-11</u>				
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$9,243.92

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ORIGINAL

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INVOICE

SEP 26 1999



HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

Table with columns INVOICE NO. and DATE. Values: 234046, 05/28/1998

Table with columns: WELL LEASE NO./PROJECT, WELL/PROJECT LOCATION, STATE, OWNER, SERVICE LOCATION, CONTRACTOR, JOB PURPOSE, TICKET DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

RECEIVED JUN 01 1998

RECEIVED STATE CORPORATION COMMISSION DIRECT CORRESPONDENCE TO: P O BOX 1578 LIBERAL KS 67901 JUL 30 1998 CONSERVATION DIVISION Wichita, Kansas

HARRIS OIL & GAS CO PETROLEUM MANAGEMENT P. O. BOX 976 LIBERAL, KS 67905

Main table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, UM, UNIT PRICE, AMOUNT. Includes items like MILEAGE CEMENTING ROUND TRIP, WILFAGE FOR CREW, CEMENTING CASING, SUPER FLUSH, CLAYFIX II, GUIDE SHOEL, INSERT FLOAT VALVE, FILL-UP UNIT.

ORIGINAL

KCC JUL 28 1998 CONFIDENTIAL

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials.

ORIGINAL

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INVOICE

SEP 28 1998



HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

Table with columns INVOICE NO. (234046) and DATE (05/28/1998)

Table with columns WELL LEASE NO./PROJECT, WELL/PROJECT LOCATION, STATE, OWNER, SERVICE LOCATION, CONTRACTOR, JOB PURPOSE, TICKET DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

HARRIS OIL & GAS CO PETROLEUM MANAGEMENT P. O. BOX 976 LIBERAL, KS 67905

DIRECT CORRESPONDENCE TO:

P O BOX 1598 LIBERAL KS 67901

ORIGINAL

Main table with columns REFERENCE NO., DESCRIPTION, QUANTITY, UM, UNIT PRICE, AMOUNT. Includes items like CENTRALIZER, CLAMP LIME, BASKET, HALIBURTON WELD, CEMENTING FLUX, COMPUPAC SYSTEM, CEMENT - PREMIUM, HALAD, SALT.

KCC JUL 28 1998 CONFIDENTIAL

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials.

ORIGINAL

RELEASED

SEP 23 1999

INVOICE

FROM:



HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE NO.	DATE
234046	05/28/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
RICH SMITH 2-20		MORTON		KS	GAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
LIBERAL		SHAW BELOW			05/28/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
266550	CJ DISEKER			COMPANY TRUCK	41941

DIRECT CORRESPONDENCE TO:

HARRIS OIL & GAS CO
PETROLEUM MANAGEMENT
P. O. BOX 976
LIBERAL, KS 67905

ORIGINAL

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
508-127	CAL SEAL 60	11	SK	20.00	220.00
	DISCOUNT -(30)	28.0	%		-117.04
500-207	BULK SERVICE CHARGE	174	CBT	1.66	288.84
	DISCOUNT -(30)	38.0	%		-107.75
500-306	MILEAGE CHRG MAY DEL OR RETURN	398.33	TM1	1.25	497.90
	DISCOUNT -(30)	38.0	%		-139.23

JOB PURPOSE SUBTOTAL

KCC

Vendor # 34060

9,750.10

JUL 28 1998

Invoice # 234046

INVOICE SUBTOTAL

CONFIDENTIAL

Invoice Date 5/28/98

9,750.10

DISCOUNT -(30)

Invoice \$ 6074.51

INVOICE BID AMOUNT

Well # 26002

3,900.39

5,849.71

- * KANSAS STATE SALES TAX
- * LIBERAL CITY SALES TAX
- * SQUARED COUNTY SALES TAX

Charge Date 5/98

148.83

Description Cement

20.39

4 1/2 CSB

45.58

PETROLEUM MANAGEMENT COMPANY

DRLG _____ COMP. X

TANG _____ INTANG. _____

PROD. OPER. ROOM EXPENSE _____

LEASE Smith 2-20

USED FOR Cement 4 1/2 CSB

INVOICE TOTAL PLEASE PAY THIS AMOUNT 96,074.51

A/P Ref # 25220

A/P Code 120-30-07

DLW

APPROVED BY _____

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KCC

JUL 28 1998

CONFIDENTIAL

WELL NAME:

COMPANY:

LOCATION:

DATE:

Rich Smith #2-20

Harris Oil & Gas

20-33S-42W

Morton County, Kansas

5/28/98

ORIGINAL

CONFIDENTIAL

RELEASED

SEP 28 1999

15-129-21558

FROM

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas DATE 5-25-98
 WELL NAME: Rich Smith #2-20 KB 3560.00 ft TICKET NO: 9825 DST #1
 LOCATION : 20-33s-42w Morton KS GR 3550.00 ft FORMATION: Keyes
 INTERVAL : 4852.00 To 4875.00 ft TD 4875.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10333	10333	3026			PF Fr. 0906 to 0936 hr
SI 60	Range(Psi)	4050.0	4050.0	4995.0	0.0	0.0	IS Fr. 0936 to 1036 hr
SF 60	Clock(hrs)	12hr	12hr	elect			SF Fr. 1036 to 1136 hr
FS 120	Depth(ft)	4875.0	4875.0	4860.0	0.0	0.0	FS Fr. 1136 to 1336 hr

	Field	1	2	3	4	
A. Init Hydro	2305.0	2305.0	2362.0	0.0	0.0	T STARTED 0702 hr
B. First Flow	50.0	64.0	33.0	0.0	0.0	T ON BOTM 0904 hr
B1. Final Flow	61.0	65.0	74.0	0.0	0.0	T OPEN 0906 hr
C. In Shut-in	863.0	864.0	937.0	0.0	0.0	T PULLED 1336 hr
D. Init Flow	50.0	67.0	46.0	0.0	0.0	T OUT 1545 hr
E. Final Flow	71.0	82.0	76.0	0.0	0.0	
F. Fl Shut-in	874.0	873.0	938.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2295.0	2266.0	2331.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 24000.00 lbs

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
 120.00 ft of mud 100%
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

RELEASED

SEP 28 1999

FROM COMPANY

MUD DATA-----

Mud Type chemical
 Weight 9.00 lb/c
 Vis. 51.00 S/L
 W.L. 8.00 in3
 F.C. 0.00 in
 Mud Drop Y 20.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 1220.00 F
 Hole Condition good
 % Porosity 12.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Scott Bugbee
 Co. Rep. Austin Garner
 Contr. Allen
 Rig # 2
 Unit #
 Pump T.

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 2 Mins.
 Initial Shut-in:
 Bled 2" no blow back
 Final Flow:
 Bottom of bucket as soon as tool opened gas to surface in 30 ins.
 Final Shut-in:
 Bled 2" no blow back gas will burn

SAMPLES: yes
 SENT TO: Caraway Analytical

Test Successful: Y

GAS RECOVERY

COMPANY: Harris Oil & Gas DATE: 5-25-98
WELL NAME: Rich Smith #2-20 KB Elev: 3560.00 ft TICKET #9825 DST #1
WELL LOCATION: 20-33s-42w Morton KS GR Elev: 3550.00 ft FORMATION: Keyes
INTERVAL Fr.: 4852.00 To 4875.00 T.D.: 4875.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Gauge

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.00	22	0	773000.0
10	1.00	10	0	472000.0
15	0.50	6	0	86300.0
20	0.50	6	0	86300.0
25	0.50	5	0	78100.0
30	0.50	6	0	86300.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich Smith #2-20

LOCATION : 20-33s-42w Morton KS

TICKET No. 9825 D.S.T. No. 1 DATE 5-25-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands9 Single Total 554

D.P. ABOVE TOOLS.Stands68 Single 1 Total 4272

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4879

TOTAL DEPTH 4875

TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS:

Sampler Data

850 PSI

10.0 CFS Gas

P.O. SUB top pf tool	4822
C.O. SUB 1'	4823
S.I. TOOL 5'	4828
Sampler	4831
HMV 5'	4836
JARS 5'	4841
SAFETY JOINT 2'	4843
PACKER 5'	4848
PACKER 5'	4852
DEPTH 4852	
STUBB 1'	4853
ANCHOR	
2' Perf	4855
Alpine Rec.	4860
5' PU sub	4860
T.C.	
DEPTH	
10' Perf	4870
AK1 Rec	4875
BULLNOSE	
T.D. 5'	4875

TEST HISTORY

9825 DST#1 Harris Oil & Gas Rich Smith #2-20

Flag Points	
t(Min.)	P(PSig)
A:	0.00 2362.14
B:	0.00 33.33
C:	23.50 74.47
D:	59.75 937.13
E:	0.00 45.45
F:	57.00 76.85
G:	120.25 938.02
Q:	0.00 2331.98

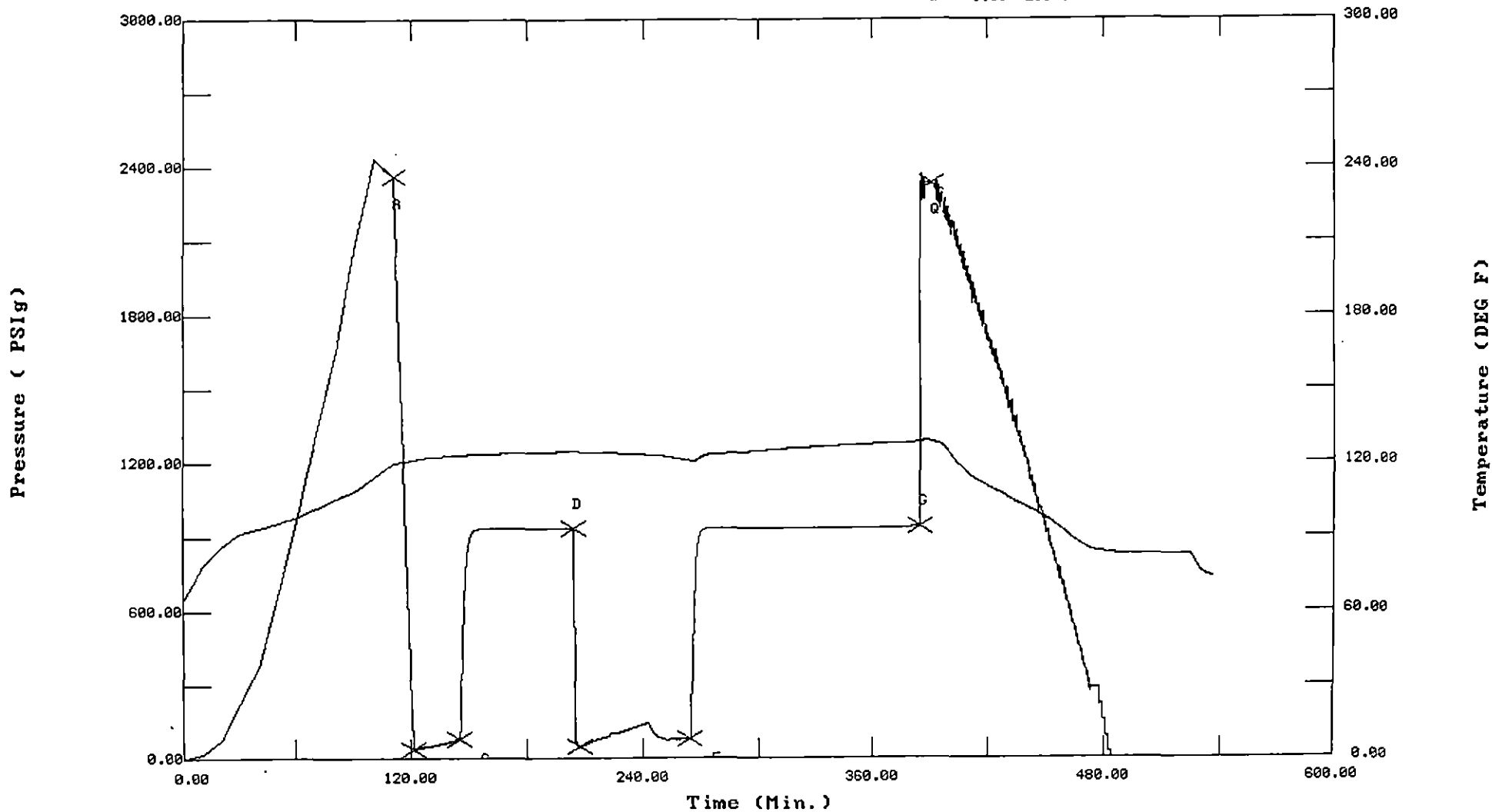
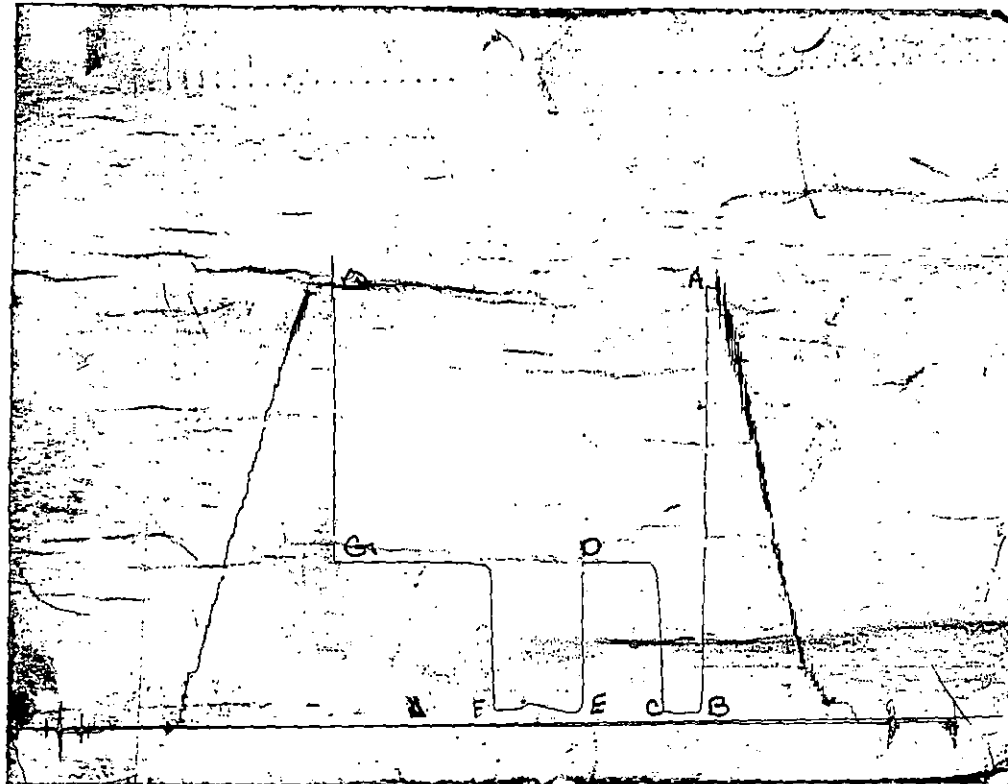
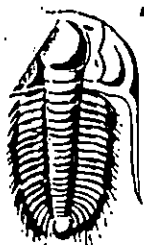


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 825-4778

GAS VOLUME REPORT

Harris Oil + Gas
OPERATOR

Rich Smith 2-20
WELL NAME AND NO.

*1
DST NO.

Mln.	Ins. of Water (PSIG)	Orifice Size	MCF/D	Mln.	Ins. of Water PSIG	Orifice Size	MCF/D
5	22	1"	773,000				
10	10	1"	472,000				
15	6	1/2"	86,300				
20	6	1/2"	86,300				
25	5	1/2"	78,100				
30	6	1/2"	86,300				

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9825 Date 5-25-98
Company Name Harris Oil + Gas
Lease Rich Smith 2-20 Test No. #1
County Morton Sec. 20 Twp. 335 Rng. 426

SAMPLER RECOVERY

Gas 4000 ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 850 PSI
Total _____ ML

PIT MUD ANALYSIS

Chlorides 1.000 ppm.
Resistivity 2.4 ohms @ 68° F
Viscosity 51
Mud Weight 9.0
Filtrate 8.0
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9825

Name & No. Rich Smith # 2-20 Test No. DST #1 Date 5-25-98
 Company Harris Oil & Gas Zone Tested Keyes
 Address 1125 17th St, Suite 2290 Denver Colo, 80202 Elevation 3560 KB 3550 GL
 Co. Rep / Geo. Austin Garner Cont. Allen Rig #2 Est. Ft. of Pay 8 Por. 12%
 Location: Sec. 20 Twp. 33S Rge. 42 W Co. Morton State Ks.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4852 - 4875 Initial Str Wt./Lbs. 84,000 Unseated Str Wt./Lbs. 86,000
 Anchor Length 23' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 95,000
 Top Packer Depth 4847 Tool Weight 1800
 Bottom Packer Depth 4852 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4875 Wt. Pipe Run _____ Drill Collar Run 554 ^{95 lbs}
 Mud Wt. 9.0 LCM 2 Vis. 51 WL 8.0 Drill Pipe Size 4 1/2 Ft. Run 4875 ^{18 1/2} ~~18 1/2~~ ^{stds}

Blow Description I.O. Strong blow B.O.B. in 2 min.
I.S.I. Bled 2" no blow back
2nd open B.O.B. as soon as open tool G.T.S. in 30 min.
F.S.I. Bled 2" no blow back gas will burn

Recovery — Total Feet	GIP	A.T.S.	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
120			120				100	
Rec. 120	Feet Of	Mud						
Rec. _____	Feet Of				%gas	%oil	%water	%mud
Rec. _____	Feet Of				%gas	%oil	%water	%mud
Rec. _____	Feet Of				%gas	%oil	%water	%mud
Rec. _____	Feet Of				%gas	%oil	%water	%mud

BHT 122 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud	<u>2305</u> <u>2362</u>	PSI	Recorder No. <u>3026</u>	T-Started	<u>7:02 A.M.</u>
(B) First Initial Flow Pressure	<u>50</u> <u>33</u>	PSI	(depth) <u>4860</u>	T-Open	<u>9:06 A.M.</u>
(C) First Final Flow Pressure	<u>61</u> <u>74</u>	PSI	Recorder No. <u>10333</u>	T-Pulled	<u>1:36 P.M.</u>
(D) Initial Shut-in Pressure	<u>863</u> <u>937</u>	PSI	(depth) <u>4875</u>	T-Out	<u>3:45 P.M.</u>
(E) Second Initial Flow Pressure	<u>50</u> <u>46</u>	PSI	Recorder No. _____		
(F) Second Final Flow Pressure	<u>71</u> <u>76</u>	PSI	(depth) _____		
(G) Final Shut-in Pressure	<u>874</u> <u>938</u>	PSI	Initial Opening <u>30</u>	Test	<input checked="" type="checkbox"/> <u>700⁰⁰</u>
(H) Final Hydrostatic Mud	<u>2295</u> <u>2331</u>	PSI	Initial Shut-in <u>60</u>	Jars	<input checked="" type="checkbox"/> <u>200⁰⁰</u>
	<u>AKI</u> <u>Alpine</u>		Final Flow <u>60</u>	Safety Joint	<input checked="" type="checkbox"/> <u>50⁰⁰</u>
			Final Shut-in <u>120</u>	Straddle	_____
				Circ. Sub	<input checked="" type="checkbox"/>
				Sampler	<input checked="" type="checkbox"/> <u>200⁰⁰</u>
				Extra Packer	_____
				Elect. Rec.	<input checked="" type="checkbox"/> <u>150⁰⁰</u>
				Other	_____

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Approved By [Signature]
Keith B...