

SABA ENERGY OF TEXAS, INC.

LEASE: MORRIS

WELL NO.: 1

TEST NO.: 1

TICKET NO.: 410528

1-AUG-98

ODESSA



HALLIBURTON
ENERGY SERVICES



Halliburton Energy Services
Permian Basin
DST Report

General Information

Saba Energy of Texas, Inc. Morris # 1 DST # 1 TD: 10706 ft Test Interval: 10666 ft - 1706 ft Net Pay : 40 ft est. Drill Pipe Recovery: Recovery above circulating sub not available due to stuck drill pipe problems. Fluid above tools and below circulating sub was oil and gas cut mud. Gas to surface 25 minutes into first flow period. Sampler Recovery: 180 psi; 310 cc's oil; 40 cc's water; 1.06 cu ft gas	Test Date: 1-AUG-98 Report Date: 4-AUG-98 Ticket No.: 410528
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Pressure Data

Gauge No.: P95 Gauge Depth: 10624 ft

	Initial Hydrostatic	5141.5
29.5 min	Initial First Flow	146.2
	Final First Flow	215.1
1061.7 min	First CIP	3972.5
	Final Hydrostatic	5082.9

Comments

Drill pipe become stuck above tools during first hour of buildup period. Unable to cycle tools to open for second flow period. Drill pipe recovery was unable to be determined due to circulating in attempt to wash drill pipe free. Spotted oil to free tools. Estimated flow rates of 70.5 bpd oil with 100 MSCF/day gas were calculated using the pressure change method. A simulation match yielded a **perm of 0.0526 md; skin of -0.85; and Pi of 4124.68 psi** using a dual porosity pseudo steady state model. Semi-Log regression analysis yielded a **perm of 0.0691 md; skin of -2.51; and P* of 4014.25 psi**. Analysis should be considered questionable due to not being able to accurately determine liquid recovery and simulation match not fitting fully.

Alvey Bass	Office	915-385-3407
	Mobile	915-556-5561
	Pager	1-888-205-3022

Thank you for the opportunity to do your DST.



Company	Saba Energy	Formation interval	10666 ft - 10706 ft
Field		Perforated interval	40 ft net pay
Well	Morris # 1	Sampler Rec.	180 psi
Test	DST # 1		1.06 cu ft gas
Date	1-AUG-98	40 cc's water	310 cc's oil
Gauge	ZI Probe/ P95	Drill Pipe Rec.	Unable to determine
Depth	10624 ft	due to stuck	pipe. Gas to surface

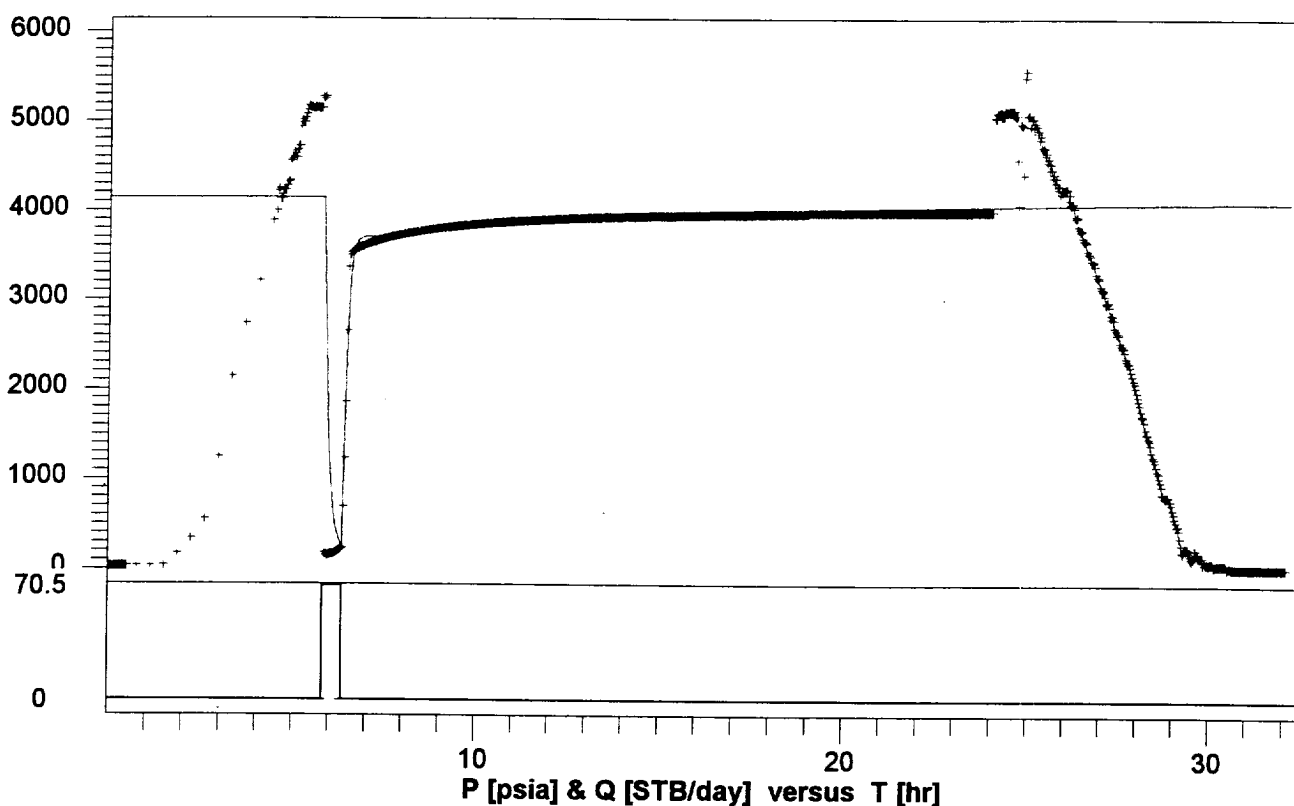
TEST TYPE	Standard	FLUID TYPE	Oil
Porosity Phi (%)	10	Volume Factor B	1.21459
Well Radius rw	0.328 ft	Total Compr. ct	1.19119E-5 psi-1
Pay Zone h	40 ft	Viscosity	0.648629 cp

Flow Period #	3	RESERVOIR	2 Phi PSS
Rate	0 STB/day	BOUNDARY	Infinite
Rate Change	70.5 STB/day	WELL	Storage & Skin
P at dt=0	215.084 psia	Storage C	0.00269 STB/psi
Pi	4124.68 psia	Ci/Cf	0.0701743
		Alpha	32.1
Time Match	0.36 (hr)-1	Skin factor	-0.85
Pressure Match	0.000268 (psia)-1	Delta P Skin	-3155.55 psia
		kh	2.1 md.ft
		k	0.0526 md
		Mobility k/mu	0.081
		Omega	0.00844
		Lambda	0.000319



Compa Saba Energy
Field
Well Morris # 1

Test DST # 1
Date 1-AUG-98
Gauge ZI Probe/ P95



Flow Period # 3
Rate 0 STB/day
Rate Change 70.5 STB/day
P at dt=0 215.084 psia
Pi 4124.68 psia
Time Match 0.36 (hr)⁻¹
Pressure Match 0.000268 (psia)⁻¹

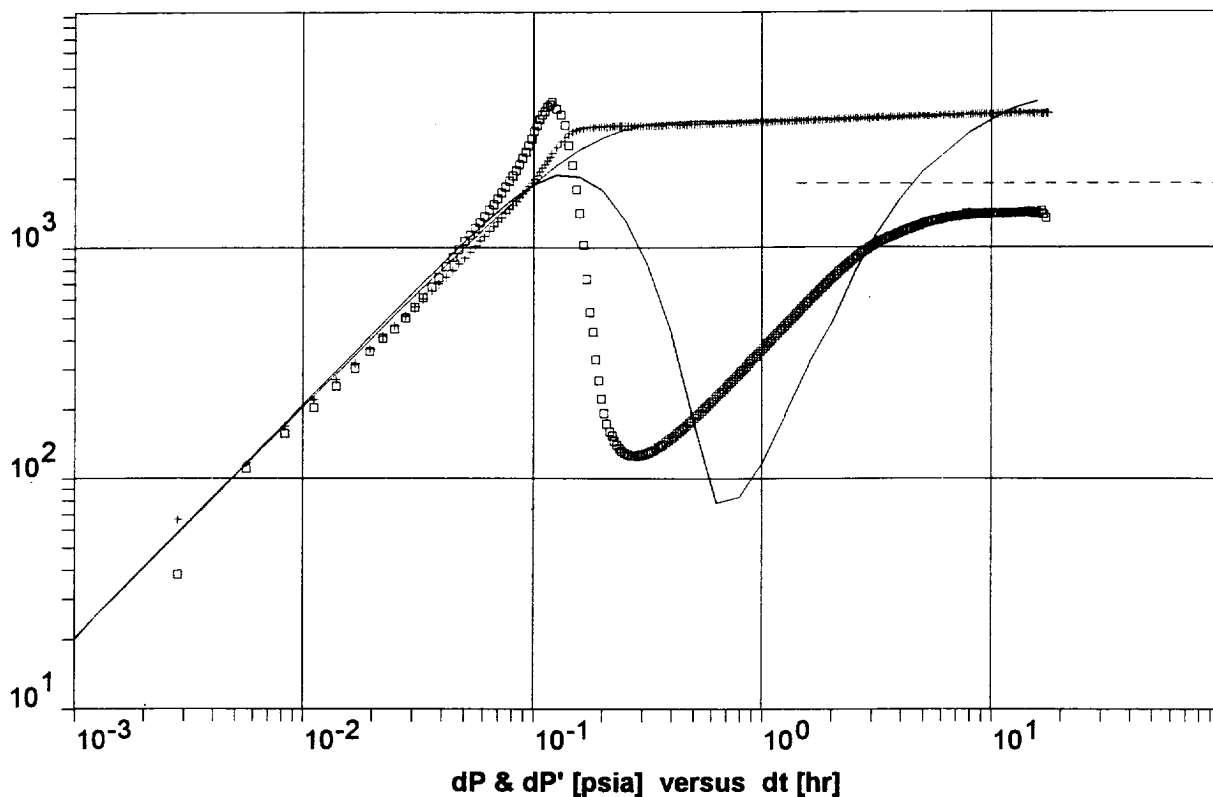
RESERVOIR 2 Phi PSS
BOUNDARY Infinite
WELL Storage & Skin
Storage C 0.00269 STB/psi
Ci/Cf 0.0701743
Alpha 32.1
Skin factor -0.85
Delta P Skin -3155.55 psia

kh 2.1 md.ft
k 0.0526 md
Mobility k/mu 0.081
Omega 0.00844
Lambda 0.000319



Compar Saba Energy
Field
Well Morris # 1

Test DST # 1
Date 1-AUG-98
Gauge ZI Probe/ P95



Flow Period # 3
Rate 0 STB/day
Rate Change 70.5 STB/day
P at dt=0 215.084 psia
Smoothing 0.1
Pi 4124.68 psia

Time Match 0.36 (hr)-1
Pressure Match 0.000268 (psia)-1

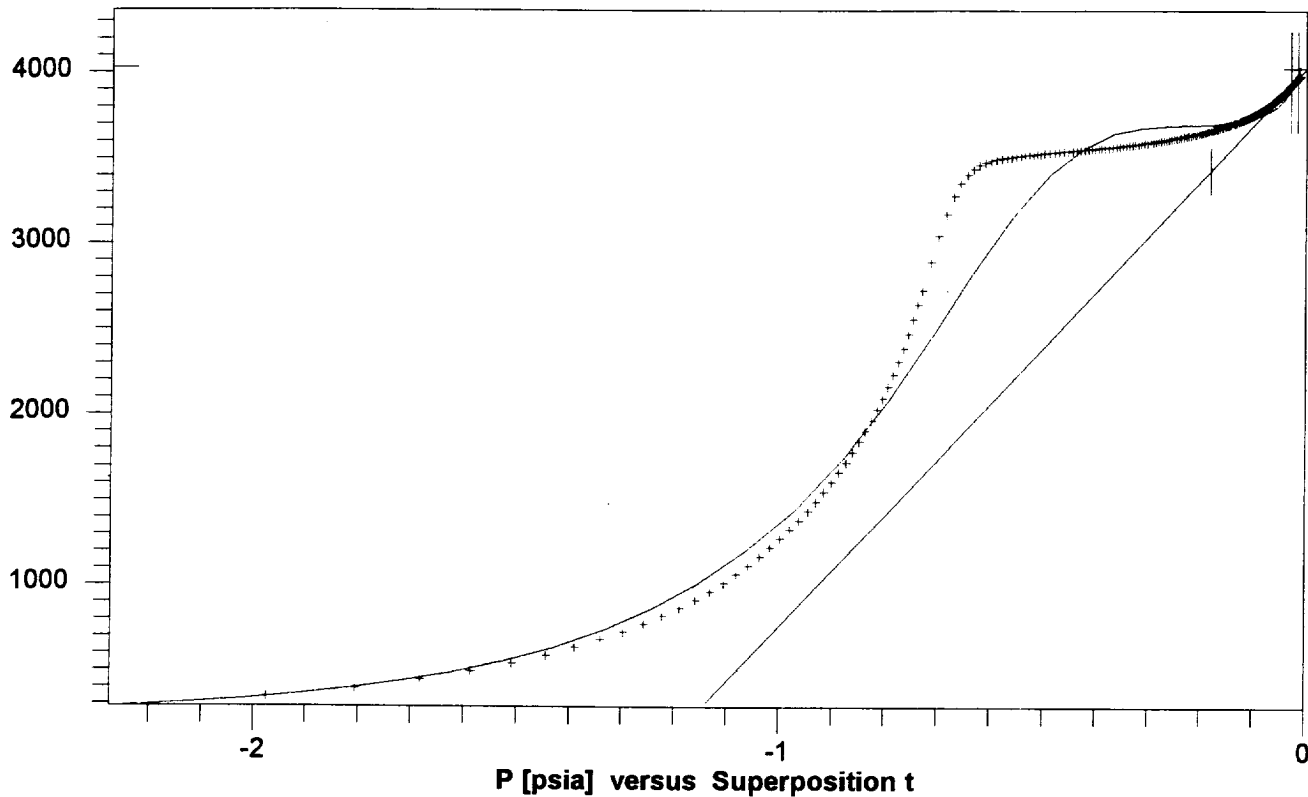
RESERVOIR 2 Phi PSS
BOUNDARY Infinite
WELL Storage & Skin
Storage C 0.00269 STB/psi
Ci/Cf 0.0701743
Alpha 32.1
Skin factor -0.85
Delta P Skin -3155.55 psia

kh 2.1 md.ft
k 0.0526 md
Mobility k/mu 0.081
Investig. R 31.7 ft
Omega 0.00844
Lambda 0.000319



Compa Saba Energy
Field
Well Morris # 1

Test DST # 1
Date 1-AUG-98
Gauge ZI Probe/ P95



Flow Period #	3	RESERVOIR	2 Phi PSS
Rate	0 STB/day	BOUNDARY	Infinite
Rate Change	70.5 STB/day	WELL	Storage & Skin
P at dt=0	215.084 psia	Storage C	0.00269 STB/psi
Pi	4124.68 psia	Ci/Cf	0.0701743
		Alpha	32.1
STRAIGHT	LINE	Skin factor	-0.85
		Delta P Skin	-3155.55 psia
From	7.5195 hr	kh	2.1 md.ft
To	13.9695 hr	k	0.0526 md
Slope	3270 psia	Mobility k/mu	0.081
Intercept	4014.25 psia	Omega	0.00844
value at dt=1hr	3417.96 psia	Lambda	0.000319
-> p*	4014.25 psia		
-> PMatch	0.000352 (psia)-1		
-> k.h	2.76 md.ft		
-> k	0.0691 md		
-> Skin	-2.51		
Time Match	0.36 (hr)-1		
Pressure Match	0.000268 (psia)-1		



Company	Saba Energy	Formation interval	10666 ft - 10706 ft
Field		Perforated interval	40 ft net pay
Well	Morris # 1	Sampler Rec.	180 psi
Test	DST # 1		1.06 cu ft gas
Date	1-AUG-98	40 cc's water	310 cc's oil
Gauge	ZI Probe/ P95	Drill Pipe Rec.	Unable to determine
Depth	10624 ft	due to stuck	pipe. Gas to surface

Date	Time	FP #	Rate STB/day	Duration hr
01/08/1998	09:58:53	1	0.00	5.83890
	15:49:13	2	70.5000	0.52220
	16:20:32	3	0.00	17.6945
02/08/1998	10:02:13	4	1E-5	8.44440

HALLIBURTON
ENERGY
SERVICES

REPORT TICKET NO: 410528
MEMORY GAUGE TICKET NO: 410528
DATE: 1-AUG-98
HALLIBURTON CAMP: ODESSA
TESTER: D. REX
WITNESS: T. HEADSTREAM

DRILLING CONTRACTOR: NORTON DRLG
LEGAL LOCATION: SEC8;T13S;R36E

OPERATOR: SABA ENERGY OF TEXAS, INC.
LEASE NAME: MORRIS
WELL NO: 1
TEST NO: 1
TESTED INTERVAL: 10666.00 - 10706.00 ft

FIELD AREA: S. TATUM,N.M.
COUNTY/LSD: LEA
STATE/PROVINCE: NEW MEXICO
COUNTRY: U.S.A.

NOTICE: THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION WHICH MUST BE RELIED UPON HALLIBURTON MAKES NO WARRANTY, EXPRESS OR IMPLIED AS TO THE ACCURACY OF THE DATA OR OF ANY CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE ARISING OUT OF OR IN CONNECTION WITH SUCH DATA, CALCULATIONS OR OPINIONS.

Date: 1-AUG-98

Ticket No: 410528

Page No: 1.1

SUMMARY OF TEST

Lease Owner: SABA ENERGY OF TEXAS, INC. Lease Name: MORRIS

Well No.: 1 Test No.: 1

County/LSD: LEA State/Province: NEW MEXICO

Country: U.S.A.

Formation Tested: CISCO

Hole Temp: 157.40 F

Total Depth: 10706.00 ft

Net Pay: 40.00 ft

Gross Tested Interval: 10666.00 - 10706.00 ft

Perforated Interval (ft):

RECOVERY:

RECOVERY ABOVE THE CIRCULATING SUB NOT AVAILABLE DUE TO STUCK PIPE PROBLEMS. FLUID ABOVE TOOLS AND BELOW CIRCULATING SUB WAS OIL AND GAS CUT MUD. SAMPLE CHAMBER WAS ALL OIL AND GAS. FLOWED GAS TO SURFACE IN FIRST FLOW PERIOD IN 25 MINUTES. MAXIMUM FLOW WAS 100 MCF\DAY.

REMARKS:

CISCO-DOLOMITE.
GAUGE NO. P96 APPEARS TO HAVE STOP TRIPPING IN THE HOLE
BUT RESTARTED WHEN TOOLS WERE CYCLED FOR THE BUILDUP.

TEST PERIOD SUMMARY

Gauge No.: P95 Depth: 10624.00 ft Blanked off: No

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A		Initial Hydrostatic	5141.53	
B	1	Start Draw-down	146.20	
C		End Draw-down	215.08	29.50
C	2	Start Build-up	215.08	
D		End Build-up	3972.54	1061.67
E		Final Hydrostatic	5082.86	

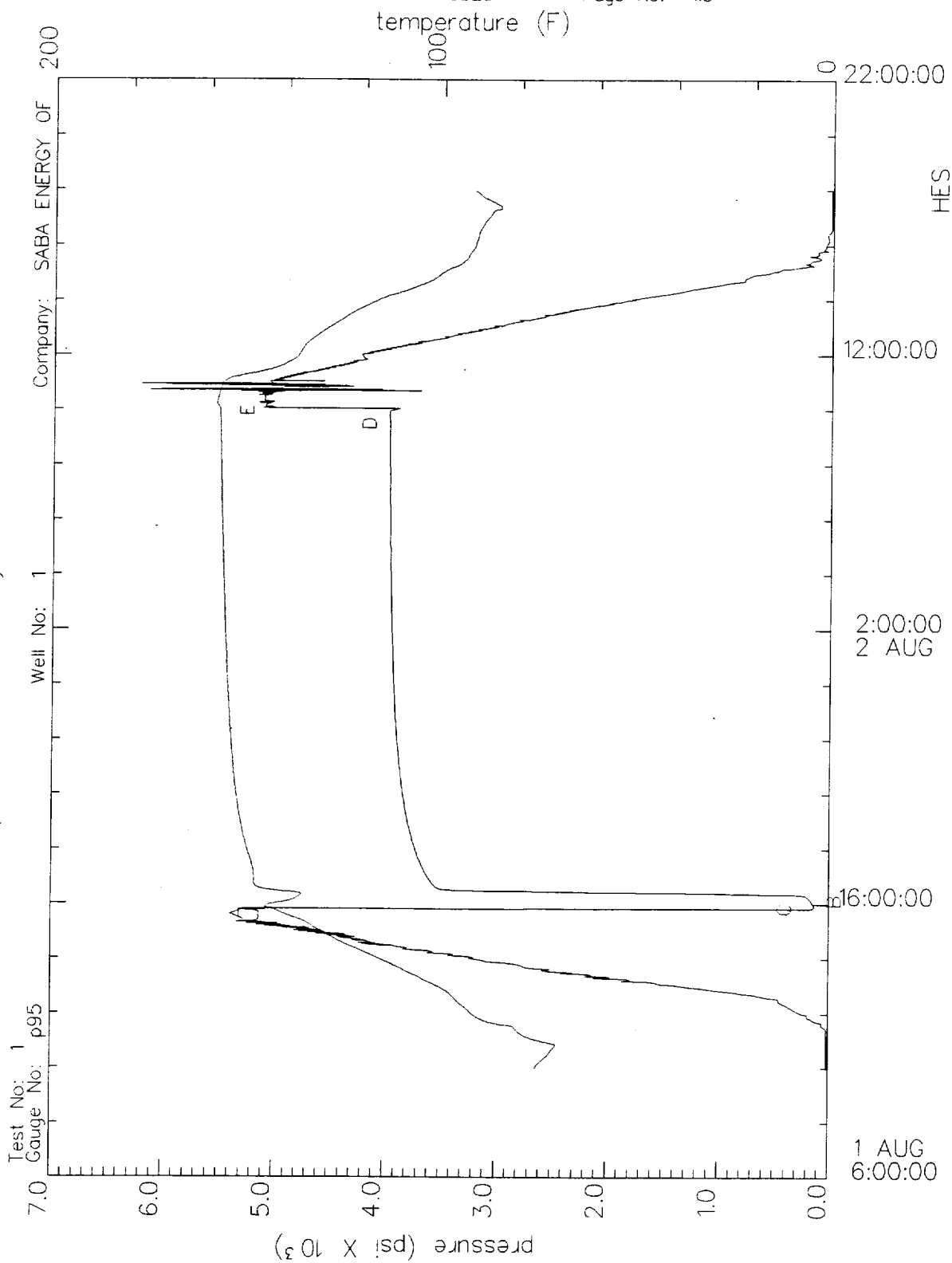
NOTE: for Pressure vs. Time Plot, see next page.

Date: 1-AUG-98

Ticket No: 410528

Page No: 1.3

Pressure/Temperature History



TEST AND FORMATION DATA

Formation Tested: CISCO
 All Depths Measured From: KB
 Elevation: 4016.00 ft
 Total Depth: 10706.00 ft
 Net Pay: 40.00 ft
 Hole or Casing Size: 7.875 in
 Gross Tested Interval: 10666.00 - 10706.00 ft
 Perforated Interval (ft):

HOLE FLUID

Type: MUD
 Weight: 9.20 lbm/gal
 Viscosity: 38.00 cp

HOLE TEMPERATURE

Depth: 10624.00 ft
 Estimated: F
 Actual: 157.40 F

HYDROCARBON PROPERTIES

Oil Gravity (API): 41.8 @ 60 F
 Gas/Oil ratio (ScF/STB): 483
 Gas Gravity (SG): 0.904- LABORATORY SERVICES- HOBBS

CUSHION DATA

TYPE AMOUNT WEIGHT
 NONE

FLUID PROPERTIES FOR RECOVERED MUD AND WATER

SOURCE	RESISTIVITY	CHLORIDES	PH	OIL GRAVITY	WATER CUT	
PIT	@ F	23000 PPM	9.5			MUD REPORT
TOP OF TOOLS	0.215 @ 72 F	19750 MPL	7.0			HOBBS HES LAB
MID OF RECOVERY	0.218 @ 72 F	18500 MPL	7.0			HOBBS HES LAB
SAMPLER	0.286 @ 72 F	15250 MPL	7.0	41.8	11.4 %	HOBBS HES LAB

SAMPLER DATA

Surface Pressure: 180 psi
 Volume of Gas: 1.06 ft3
 Volume of Oil: 310 cc
 Volume of Water: 40 cc
 Volume of Mud: cc
 Total Liquids: 350 cc

REMARKS:

CISCO-DOLOMITE
 GAUGE NO. P96 APPEARS TO HAVE STOP TRIPPING IN THE HOLE
 BUT RESTARTED WHEN TOOLS WERE CYCLED FOR THE BUILDUP.

Date: 1-AUG-98
Test No: 1

Ticket No: 410528

Page No: 1.5.1

OPERATOR JOB LOG

Type of Flow Measuring Device: POSTIVE CHOKE

TIME HH:MM:SS	CHOKE SIZE (in)	SURFACE PRESSURE (psi)	GAS RATE (Mscf/D)	LIQUID RATE (bbl/D)	REMARKS

1-Aug-98					
08:00:00					ON LOCATION
08:58:00					START GAUGE P95
08:59:00					START GAUGE P96
10:00:00					PICKUP TOLLS, RIH
15:00:00					RIG UP FLOOR
15:53:00					OPEN TOOL, ON HOSE, FLOW
15:54:00		1.00			PRESSURE RISING, HOSE
15:55:00		3.00			PRESSURE RISING, HOSE
15:56:00	16/64	5.00			SWITCH TO 1/4IN CHOKE
15:57:00	16/64	5.00			CHANGE GAUGE
15:58:00	16/64	5.00			STEADY INCREASE
16:03:00	16/64	13.00			STEADY INCREASE
16:08:00	16/64	23.00			STEADY INCREASE
16:13:00	16/64	34.00			STEADY INCREASE
16:18:00	16/64	44.00	90.0		GAS TO SURFACE
16:23:00	16/64	53.00	100.0		STEADY INCREASE
16:26:00	16/64	53.00	100.0		CLOSE TOOL, 1HR SHUT IN
17:26:00					ATTEMPT TO OPEN TOOLS
17:43:00					NO FREE TRAVEL IN TOOLS
18:00:00					ATTEMPT TO OPEN TOOLS
18:15:00					TOOLS NOT RESPONDING
18:30:00					ATTEMPT TO PULL TOOLS LOOSE
20:00:00					CAN NOT PULL TOOLS LOOSE
22:00:00					RELEASED FROM LOCATION
2-Aug-98					
					DRILL PIPE STUCK UP HOLE FROM
					TOOLS. CIRCULATE MUD IN ATTEMPT
					TO FREE DRILL PIPE. SPOT OIL.
10:00:00					TOOLS LOOSE. TRIP OUT OF HOLE
16:00:00					ON LOCATION
17:00:00					OUT OF THE HOLE W\ TOOLS
19:30:00					DOWNLOAD TEST
21:00:00					RELEASED FROM LOCATION

TEST STRING CONFIGURATION

	O.D. (in)	I.D. (in)	LENGTH (ft)	DEPTH (ft)
 DRILL PIPE	4.500	3.875	9776.740	
 DRILL COLLARS	6.250	2.250	735.160	
 PUMPOUT & IMPACT REVERSING SUB	6.000	3.000	1.050	10512.400
 DRILL COLLARS	6.250	2.250	89.400	
 CROSSOVER	6.000	2.500	1.100	
 MULTIPLE CIP SAMPLER	5.000	0.750	8.400	10607.650
 EXTENSION JOINT	5.000	0.870	4.550	
 EXTENSION JOINT	5.000	0.870	4.550	
 ELECTRONIC GAUGE RUNNING CASE	5.000	3.000	6.700	10624.300
 ELECTRONIC GAUGE RUNNING CASE	5.000	3.000	6.700	10631.000
 JAR	4.750	2.000	7.000	
 VR SAFETY JOINT	5.000	1.000	2.800	
 OPEN HOLE PACKER	7.000	1.530	5.130	10646.950
 OPEN HOLE PACKER	7.000	1.530	5.130	10652.080
 CROSSOVER	6.000	3.000	1.200	
 DRILL COLLARS	6.250	2.250	30.670	
 CROSSOVER	6.000	3.000	0.620	
 FLUSH JOINT ANCHOR	5.750	2.870	15.000	
 BLANKED-OFF RUNNING CASE ..	5.750	0.000	4.100	10703.000
TOTAL DEPTH				10706.00
HES				

Date: 1-AUG-98

Ticket No: 410528

Page No: 1.7

TEST PERIOD SUMMARY

Gauge No.: P96 Depth: 10631.00 ft Blanked off: No

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A	2	Start Build-up	87.86	
B		End Build-up	3972.07	1059.50
C		Final Hydrostatic	5065.91	

NOTE: for Pressure vs. Time Plot, see next page.