

15-081-21307

TRILOBITE TESTING L.L.C.

12-27s-34w

OPERATOR : Helmerich & Payne Inc.
 WELL NAME: Government B-3
 LOCATION : 12-27-34 Finney co KS
 INTERVAL : 5006.00 To 5150.00 ft

DATE 7-12-00
 KB 2969.00 ft TICKET NO: 13384 DST #1
 GR 2957.00 ft FORMATION: Morrow
 TD 5150.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11058	11058	2346			PF Fr. 2245 to 2300 hr
SI 60 Range(Psi)	4475.0	4475.0	4995.0	0.0	0.0	IS Fr. 2300 to 1200 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 1200 to 0100 hr
FS 180 Depth(ft)	5145.0	5145.0	5020.0	0.0	0.0	FS Fr. 0100 to 0400 hr

	Field	1	2	3	4	
A. Init Hydro	2591.0	2557.0	2443.0	0.0	0.0	T STARTED 1935 hr
B. First Flow	489.0	476.0	374.0	0.0	0.0	T ON BOTM 2242 hr
B1. Final Flow	545.0	545.0	480.0	0.0	0.0	T OPEN 2245 hr
C. In Shut-in	681.0	664.0	596.0	0.0	0.0	T PULLED 0400 hr
D. Init Flow	613.0	604.0	489.0	0.0	0.0	T OUT 1200 hr
E. Final Flow	692.0	675.0	592.0	0.0	0.0	
F. Fl Shut-in	692.0	664.0	596.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2580.0	2564.0	2298.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 108000.00 lbs
						Initial Str Wt 85000.00 lbs
						Unseated Str Wt 90000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 682.00 ft
						D.P. Length 4430.00 ft

RECOVERY

Tot Fluid 1488.00 ft of 682.00 ft in DC and 806.00 ft in DP
 1338.00 ft of Clean gassy oil reversed out
 0.00 ft of 30% gas 70% oil
 30.00 ft of Oil cut mud under circ. sub
 0.00 ft of 30% oil 70% mud
 60.00 ft of Slightly oil & water cut mud
 0.00 ft of 10% oil 15% water 75% mud
 60.00 ft of Slightly oil & mud cut water
 0.00 ft of 5% oil 60% water 35% mud
 SALINITY 52000.00 P.P.M. A.P.I. Gravity 35.00

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 1 minute.

Initial Shut-In:

Gas to surface 14 minutes into shutin
 Bled off throughout.

Final Flow:

Bottom of bucket in 1 minute. (gas to weak to gauge).

Final Shut-In:

Bled off throughout.

{pull tool off bottom @ 4:00am. hit fluid wait on tank to reverse into.}

SAMPLES: gas

SENT TO: Caraway, Liberal, KS

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	55.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	3
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Government B-3	P.O. SUB	
	C.O. SUB 1'	4975
LOCATION : 12-27-34 Finney co KS	S.I. TOOL 5'	4981
TICKET No. 13384 D.S.T. No. 1 DATE 7-12-00	sampler 3'	4984
TOTAL TOOL TO BOTTOM OF TOP PACKERS 30	HMV 5'	4989
INTERVAL TOOL	JARS 5'	4994
BOTTOM PACKERS AND ANCHOR 20		
TOTAL TOOL 50		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT 2'	4996
D.P. ANCHOR STND.Stands 2 Single Total 124	PACKER top	5001
TOTAL ASSEMBLY 174	PACKER bottom	5006
D.C. ABOVE TOOLS.Stands11 Single 1 Total 682	DEPTH 5006	
D.P. ABOVE TOOLS.Stands69 Single 1 Total 4306	1'	5007
	ANCHOR 12' perf	5019
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5162	1' c.o.	5020
	alpine recorder	5020
TOTAL DEPTH 5150	124' drillpipe	5144
TOTAL DRILL PIPE ABOVE K.B. 12		
REMARKS:		
Gas: .7 cubic ft.		
Oil: 2000 ml.		
Water: 500 ml.		
Mud:		
Total: 4,000 ml.		
Pressure:490 PSI		
chlorides in sampler 52,000 RW .12 @ 81°F	1' c.o.	5145
	ak-1 recorder	5145
	BULLNOSE 5' bullplug	5150
	T.D.	5150

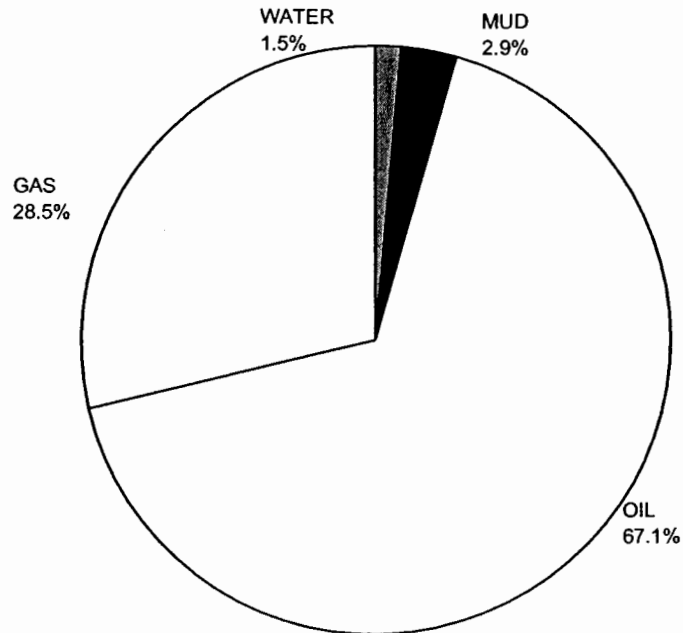
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 13384

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	806	30	241.8	70	564.2	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	532	30	159.6	70	372.4	0	0	0	0
COLLARS	2	30	0	0	30	9	0	0	70	21
	3	60	0	0	10	6	15	9	75	45
	4	60	0	0	5	3	60	36	35	21
	5	0	0	0	0	0	0	0	0	0
TOTAL		1488	0	401.4	0	954.6	0	45	0	87

			HRS OPEN		BBL/DAY
BBL OIL=	9.93198	*	1.25	=	190.69402
BBL WATER=	0.22005	*		=	4.22496
BBL MUD=	0.42543				
BBL GAS =	4.21884				

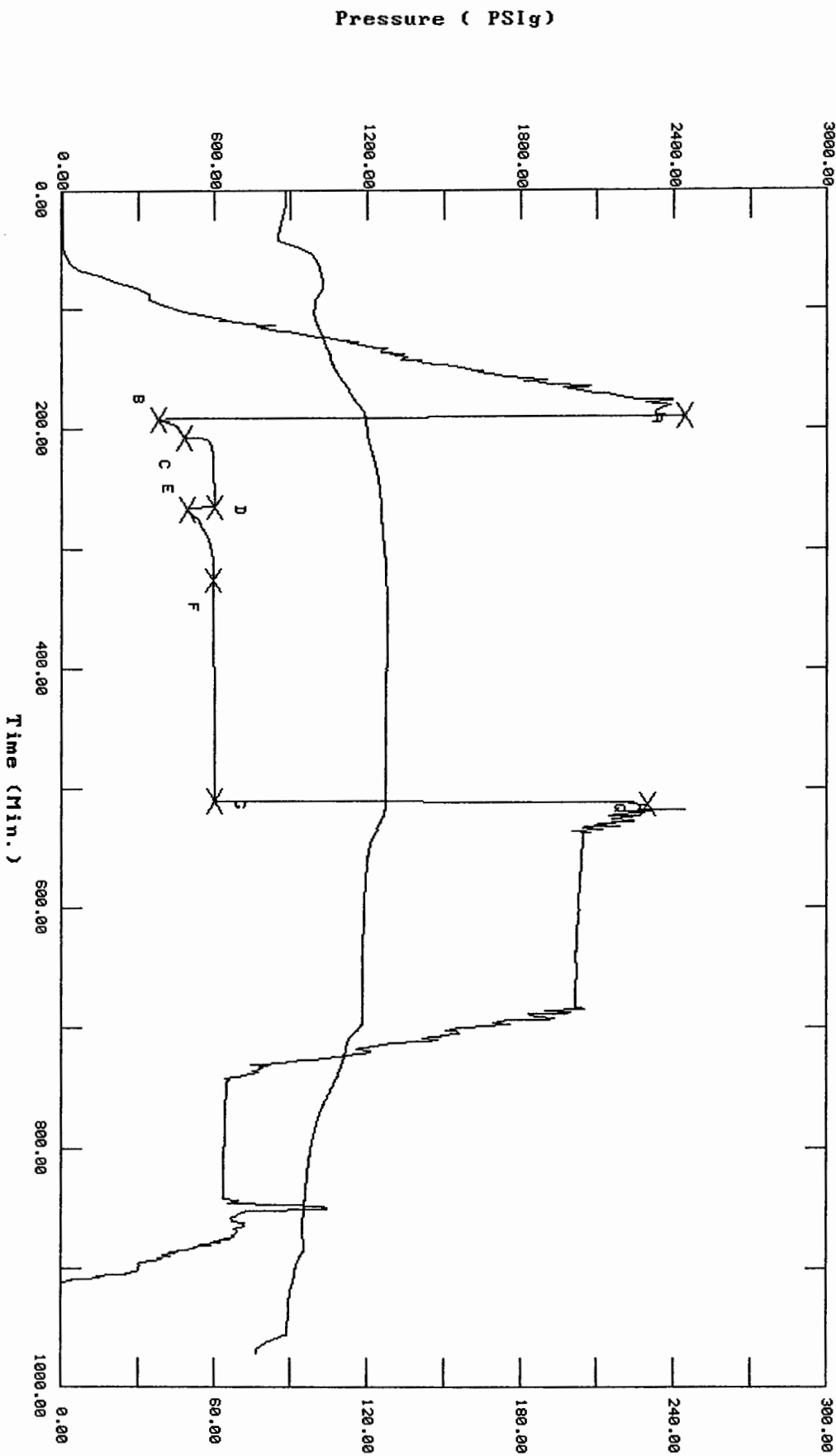


13384 DST #1 Government B-3 Helmerich & Payne Inc.

TEST HISTORY

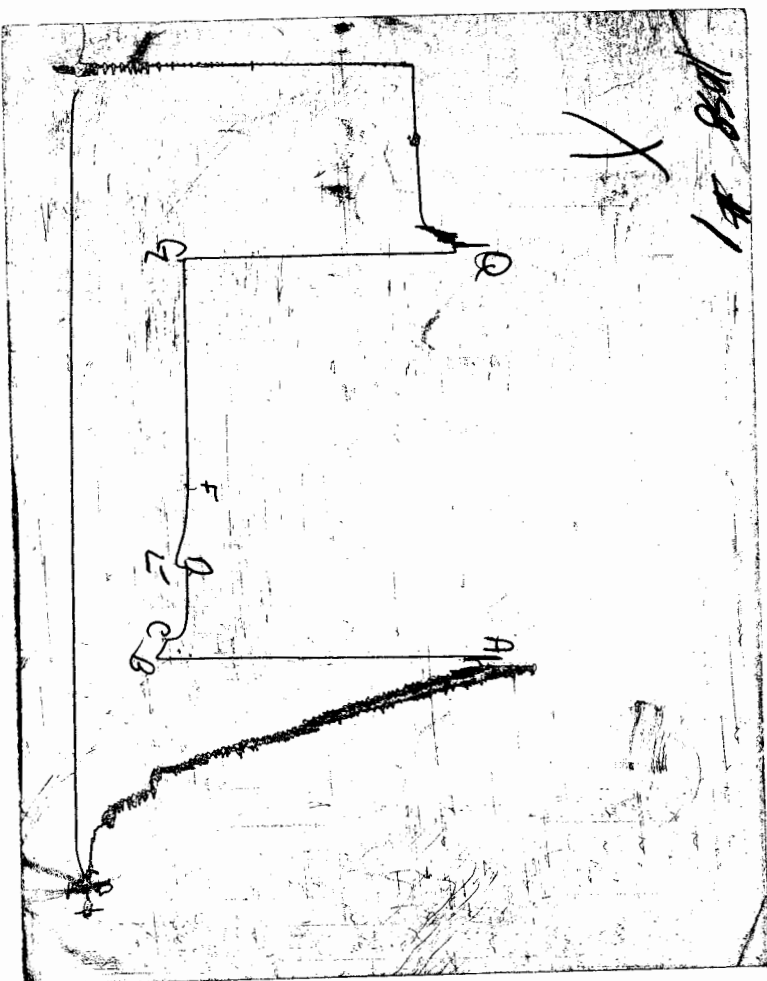
Flag Points
t(min.) P(PSig)

A: 0.00 2443.81
B: 0.00 374.29
C: 15.00 480.04
D: 58.00 596.70
E: 0.00 489.43
F: 59.00 592.99
G: 185.00 596.23
H: 0.00 2298.75



Temperature (DEG F)

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13384 Date 7-12-00
Company Name Helmerich & Payne Inc
Lease Government A B-3 Test No. #1
County Finney, Ks Sec. 12 Twp. 27 Rng. 34

SAMPLER RECOVERY

Gas .7 cft ~~ML~~
Oil 2,000 ML
Mud — ML
Water 500 ML
Other — ML
Pressure 490 PSI
Total 2,500^{ML} Fluid 1.7 cft Gas ML

SAMPLER ANALYSIS

Resistivity .12 ohms @ 81° F
Chlorides 52,000 ppm.
Gravity 35 corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 2800 ppm.
Resistivity 1.78 ohms @ 82° F
Viscosity 55
Mud Weight 9.1+
Filtrate 8.4
Other LCM #2

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity .12 ohms @ 81° F
Chlorides 52,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13384

Test Ticket

Well Name & No.	Government B-3		Test No.	1	Date	7-12-00
Company	Helmreich & Payne, Inc.		Zone Tested	Normal		
Address	1579 E 21 st Tulsa, OK, 74114		Elevation	2969'	KB	2957' GL
Co. Rep / Geo.	Brad Rine	Cont.	Cheyenne #3	Est. Ft. of Pay	Por. %	
Location: Sec.	12	Twp.	27	Rge.	34	Co. Finney State KS
No. of Copies	Distribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)		

Interval Tested	5006'	5150'	Initial Str Wt./Lbs.	85,000	Unseated Str Wt./Lbs.	90,000
Anchor Length	144'		Wt. Set Lbs.	26,000	Wt. Pulled Loose/Lbs.	108,000
Top Packer Depth	5001'		Tool Weight	5,000		
Bottom Packer Depth	5006'		Hole Size — 7 7/8" ✓	Rubber Size — 6 3/4" ✓		
Total Depth	5150'		Wt. Pipe Run	—	Drill Collar Run	682'
Mud Wt.	9.1+ LCM #2	Vis. 55	WL 8.4	Drill Pipe Size	4 1/2 XH	Ft. Run 4430'

Blow Description B.O.B in 1 min.
 I.S.I: G.T.S. 14 min into. Shut-in, Bleed off throughout
 F.F.I: B.O.B in 1 min (Gas to weak to gauge.)
 F.S.I: Bleed off throughout.

Recovery — Total Feet	1488'	GIP	G.T.S.	Ft. in DC	682'	Ft. in DP	806'
Rec.	1338'	Feet Of	C90 (reversed)	%gas	30%	%oil	70%
Rec.	30'	Feet Of	JO CM	%gas	30%	%oil	70%
Rec.	60'	Feet Of	50 3/4 W CM	%gas	10%	%oil	15%
Rec.	60'	Feet Of	50 3/4 M CW	%gas	5%	%oil	60%
Rec.		Feet Of		%gas		%oil	
BHT	128°	°F Gravity	37	°API D@	80°	°F Corrected Gravity	35
RW	.12	@	81°	°F Chlorides	52,000	ppm Recovery	Chlorides 2,800
						ppm System	

(A) Initial Hydrostatic Mud	AK-1 2591	Alpine 2443	PSI Recorder No.	2346	T-On Location	10:05 p.m.
(B) First Initial Flow Pressure	489	374	PSI (depth)	5020'	T-Started	19:35 p.m.
(C) First Final Flow Pressure	545	480	PSI Recorder No.	11058	T-Open	22:45 p.m.
(D) Initial Shut-In Pressure	681	596	PSI (depth)	5145'	T-Pulled	04:00 A.M.
(E) Second Initial Flow Pressure	613	489	PSI Recorder No.		T-Out	12:00 p.m.
(F) Second Final Flow Pressure	692	592	PSI (depth)		T-Off Location	13:15 p.m.
(G) Final Shut-in Pressure	692	596	PSI Initial Opening	15	Test	X 900
(Q) Final Hydrostatic Mud	2580	2298	PSI Initial Shut-in	60	Jars	X 200
			Final Flow	60	Safety Joint	X 50
			Final Shut-in	180	Straddle	
					Circ. Sub	X 35 00
					Sampler	X 200
					Extra Packer	
					Elec. Rec	X 150
					Mileage	6 miles
					Other	7.5 hrs 225
					TOTAL PRICE \$	1660

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Brad Rine
 Our Representative Shane M. B.