

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BEACH C "2 Test No. 1 Date 1/9/92
Company HELMERICH & PAYNE INC Zone Tested SIMPSON SAND
Address P.O. BOX 558 GARDEN CITY KS 67846 Elevation 1953 G.L.
Co. Rep./Geo. PAUL MONTOIA Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay _____
Location: Sec. 22 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3420-3445 Drill Pipe Size 4.5 XH
Anchor Length 25 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3415 Drill Collar — 2.25 Ft. Run _____
Bottom Packer Depth 3420
Total Depth 3445

Mud Wt. 10.1 lb / gal. Viscosity 44 Filtrate 11.2

Tool Open @ 5:30 PM Initial Blow VERY GOOD-BOTTOM OF BUCKET IN 2 MINUTES

Final Blow SAME AS INITIAL

Recovery — Total Feet 2100 Flush Tool? NO

Rec. 180 Feet of GAS IN PIPE

Rec. 1100 Feet of CLEAN GASSY OIL

Rec. 940 Feet of GAS & MUD CUT OIL-20%GAS/75%OIL/5%WATER

Rec. 60 Feet of MUD & OIL CUT WATER-10%OIL/75%WTR/15%MUD

Rec. _____ Feet of _____

BHT 108 °F Gravity 32 °API @ 70 °F Corrected Gravity 31 °API

RW 0.25 @ 60 °F Chlorides 33000 ppm Recovery Chlorides 54000 ppm System

(A) Initial Hydrostatic Mud 1972.1 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 151.7 PSI @ (depth) 3425 w/Clock No. 25814

(C) First Final Flow Pressure 506.3 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 853.1 PSI @ (depth) 3445 w/Clock No. 25813

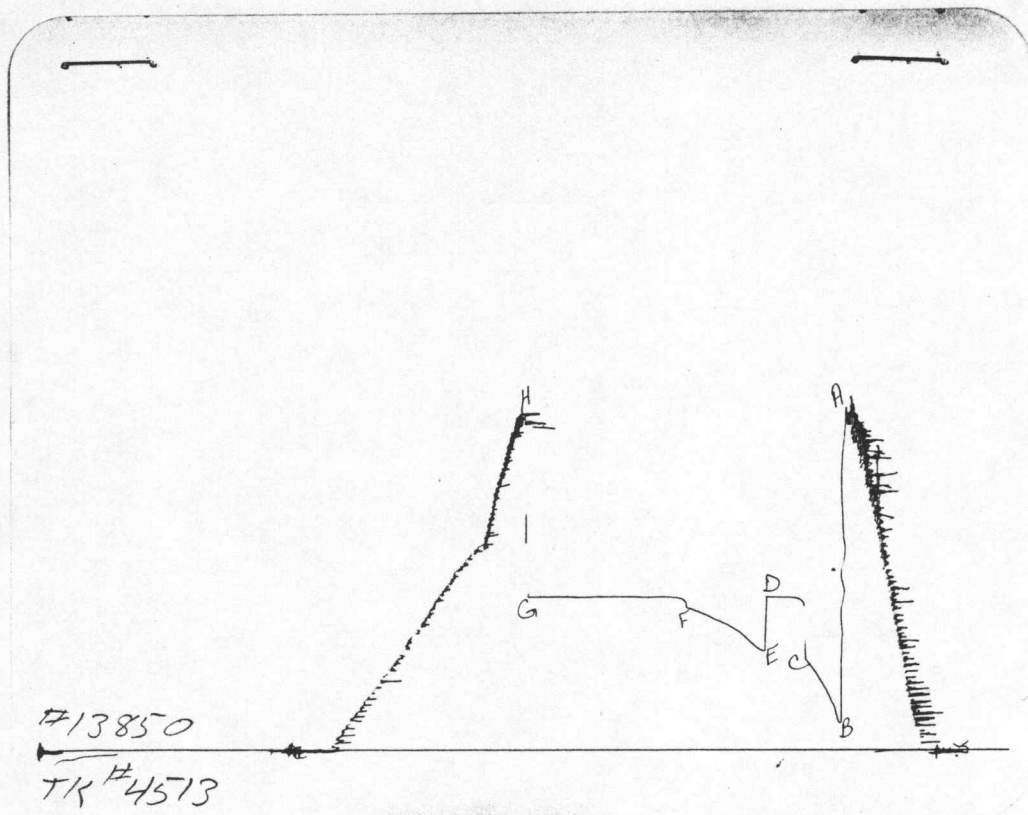
(E) Second Initial Flow Pressure 553.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 793.6 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 856.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1960.2 PSI Initial Shut-in 30 Final Shut-in 120

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 1000

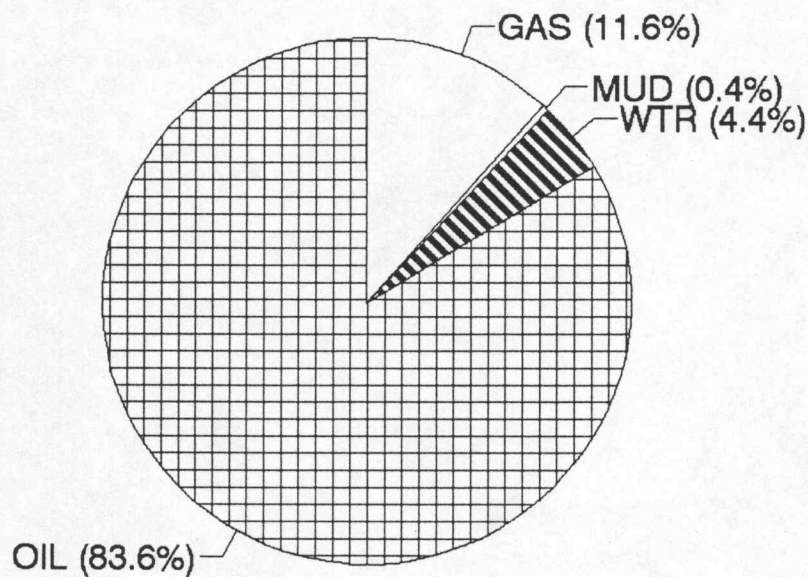


POINT This is an actual photograph of recorder chart
PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1962	1972.1
(B) FIRST INITIAL FLOW PRESSURE	144	151.7
(C) FIRST FINAL FLOW PRESSURE	532	506.3
(D) INITIAL CLOSED-IN PRESSURE	882	853.1
(E) SECOND INITIAL FLOW PRESSURE	554	553.2
(F) SECOND FINAL FLOW PRESSURE	816	793.6
(G) FINAL CLOSED-IN PRESSURE	882	856.3
(H) FINAL HYDROSTATIC MUD	1962	1960.2

CALCULATED RECOVERY ANALYSIS						DRILL	PIPE		
DST #	1		TICKET # 4513						
SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	1100	5	55	95	1045	0	0	0	0
2	940	20	188	75	705	5	47	0	0
3	60	0	0	10	6	75	45	15	9
4			0		0		0		0
5			0		0		0		0
TOTAL	2100	11.6	243	83.619	1756	4.38095	92	0.42857	9

HRS OPEN BBL/DAY
 BBL OIL= 24.97032 * 1.5 399.525
 BBL WATER 1.30824 * 20.9318
 BBL MUD= 0.12798
 BBL GAS 3.45546



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FLUID SAMPLER DATA

Ticket No. 4513 Date 1/9/92
Company Name HELMERICH & PAYNE INC
Lease BEACH C "2 Test No. 1
County ELLIS Sec. 22 Twp. 11S Rng. 17W

SAMPLER RECOVERY

Gas TRACE ML Chlorides 33000 ppm.
Oil 2500 ML Resistivity 0.14 ohms @ 70 F
Mud ML Viscosity 44
Water ML Mud Weight 10.1
Other ML Filtrate 11.2
Pressure 800 PSI Other
Total 2500 ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity ohms @ F
Chlorides ppm.
Gravity corrected @ 80 F

PIPE RECOVERY

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

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 4513 Date 1-9-92
Company Name HELMERICH & PAYNIE INC
Lease BEACH C H 2 Test No. ONE
County ELLIS Sec. 22 Twp. 11 S Rng. 17 W

SAMPLER RECOVERY

Gas TRACE ML
Oil 2500 CC ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 800 PSI
Total 2500 ML

PIT MUD ANALYSIS

Chlorides 54,000 ppm.
Resistivity 0.14 ohms @ 70 F
Viscosity 44
Mud Weight 10.1
Filtrate 11.2
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity 31 corrected @ 60 F

NITRATES
0 TO TRACE

PIPE RECOVERY

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

TRILOBITE TESTING COMPANY

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Test Ticket

No 4513

Well Name & No. <u>BEACH C #2</u>	Test No. <u>ONE</u>	Date <u>1-9-92</u>
Company <u>HELMERICH & PAYNE INC</u>	Zone Tested <u>SIMPSON SAND</u>	
Address <u>P.O. 558 GARDEN CITY KS 67846</u>	Elevation <u>1953 GL</u>	
Co. Rep./Geo. <u>PAUL MONTOLA</u>	Cont. <u>ADECROMBIE</u>	Est. Ft. of Pay _____
Location: Sec. <u>22</u> Twp. <u>11 S</u> Rge. <u>17 W</u>	Co. <u>ELLIS</u>	State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet _____ Yes ☒ No ☐	Turnkey _____ Yes ☐ No ☒ Evaluation _____

Interval Tested <u>3420 TO 3445</u>	Drill Pipe Size <u>4 1/2" X 1 1/2"</u>
Anchor Length <u>25'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3415</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3420</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3445</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>10.1</u> lb/gal.	Viscosity <u>44</u> Filtrate <u>11.2</u>
Tool Open @ <u>5:30 P</u>	Initial Blow <u>VERY GOOD BOT. BUCKET IN 2 MIN.</u>

Final Blow SAME AS INITIAL

Recovery — Total Feet <u>2100</u>	Feet of Gas in Pipe <u>180</u>	Flush Tool? <u>NO</u>
Rec. <u>1100</u> Feet Of <u>CLEAN GAS OIL</u>	%gas <u>100%</u> oil _____ %water _____ %mud _____	
Rec. <u>940</u> Feet Of <u>G + M.C.O.</u>	<u>20</u> %gas <u>75%</u> oil <u>5%</u> water _____ %mud _____	
Rec. <u>60</u> Feet Of <u>M + O.C.W.</u>	%gas <u>10%</u> oil <u>75%</u> water <u>15%</u> mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 108 °F Gravity 32 °API @ 70 °F Corrected Gravity 31 °API

RW 0.25 @ 60 °F Chlorides 33,000 ppm Recovery Chlorides 54,000 ppm System

(A) Initial Hydrostatic Mud <u>1962</u>	PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(B) First Initial Flow Pressure <u>144</u>	PSI	@ (depth) <u>3425</u>	w/Clock No. <u>25814</u>
(C) First Final Flow Pressure <u>532</u>	PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>882</u>	PSI	@ (depth) <u>3445</u>	w/Clock No. <u>25813</u>
(E) Second Initial Flow Pressure <u>554</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>816</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>882</u>	PSI	Initial Opening <u>30</u>	Test <u>5500</u>
(H) Final Hydrostatic Mud <u>1962</u>	PSI	Initial Shut-In <u>30</u>	Jars <u>2000</u>

TRILOBITE TESTING COMPANY 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 SUBSTAINED, 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.

Final Flow 60 Safety Joint 5000
Final Shut-In 120 Straddle _____

Approved By Paul D. Montola, Geologist

Our Representative [Signature]

Circ. Sub _____
Sampler 2000
Extra Packer _____
Other _____
TOTAL PRICE \$ 1000.00