

Plugged 0
1-18-98

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

API NO. 15- 191-223150000

County Sumner

80'N of E/2SE - NW Sec. 21 Twp. 30S Rge. 1 X ^E _W

3380 Feet from (S)W (circle one) Line of Section

2970 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Maechtlen Well # 1

Field Name _____

Producing Formation _____

Elevation: Ground 1287 KB 1292

Total Depth 4087 PBTD _____

Amount of Surface Pipe Set and Cemented at 413 Feet

Multiple Stage Cementing Collar Used? Yes x No _____

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ SX cnt.

Drilling Fluid Management Plan D&A, 5-13-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 300 ppm Fluid volume 500 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

Operator: License # 32211

Name: O'Brien Energy Resources Corp.

Address 75 Congress St

City/State/Zip Portsmouth NH 03801-4006

Purchaser: _____

Operator Contact Person: John Forma

Phone (316)427-2099

Contractor: Name: Berentz Drilling Company, Inc.

License: 5892

Wellsite Geologist: Frank Fitch

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

1-6-98 1-18-98
Spud Date Date Reached TD Completion Date

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 [Signature]

Title President Date 1/27/98

Subscribed and sworn to before me this 27 day of January, 1998.

Notary Public Heidi L. Byers

Date Commission Expires _____
HEIDI L. BYERS, Notary Public
My Commission Expires August 6, 2002

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution 1998		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> S&D/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

ORIGINAL

Operator Name O'Brien Energy Resources Corp Lease Name Maechtlen Well # 1

Sec. 21 Twp. 30S Rge. 1 East West
 County Sumner

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: Dual Induction
 Dual Compensated

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 Kansas City 2958 lime.no vis.por.NS
 Base KC 3184-3195 lime.shale NS
 Miss. 3577-3586 shale,dk grey,dolomite,NS
 20/40/60 slight flour.no free oil or cut
 Simpson SS 3985-3982-sand.clear,med.grain.
 subrounded,clumps and indiv.grains,friable,
 fluor.& cut,no free oil. 5' drlg break bet.
 3988-99 apparent res.&shows,DST called
 DST 3985-98 30/60/45/90 weak blow both opens
 recd.63'M FP12-24 31-46 SIP 1281-1278

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
Conductor	17"	13 3/8"	72	35	Common	35	3% CC
Surface	12 1/4"	8 5/8"	23	413	Common	325	3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purposes:	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 checked="" type="checkbox"/> Plug Off Zone	RH-465	60/40 pozmix	85	300lbs.gel

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

TUBING RECORD Size Set At Pecker At Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. D+A Producing Method Flowing Pumping Gas Lift Other (Explain)

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

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____



LOG OF WELL

MAECHTLEN #1
80' N of E/2 SE NW OF SEC 21-30S-1W
SUMNER CO., KANSAS

ORIGINAL

OPERATOR : O'BRIEN ENERGY RESOURCES CORP.
CONTRACTOR : BERENTZ DRILLING CO., INC.

COMMENCED : 1-06-98 ELEVATION : 1287 GL
COMPLETED : 1-18-98 1292 KB

CASING : 13 3/8" - 35 ft CEMENTED W/35 SX 3% CC
 8 5/8 " - 413 ft CEMENTED W/325 SX

SOIL	12 ft
SHALE	35 ft
LIME & SHALE	413 ft
SHALE	1010 ft
SHALE & LIME	1550 ft
SHALE	1720 ft
SHALE & LIME	2688 ft
SHALE	2962 ft
LIME - KANSAS CITY	3325 ft
SHALE AND LIME	3504 ft
SHALE	3615 ft
LIME - MISSISSIPPI	3948 ft
SHALE - KINDERHOOK	3990 ft
SAND SIMPSON	4075 ft
SHALE	4087 ft RTD

STATE CORPORATION COMMISSION

FEB 2 1998

ORIGINAL

GEOLOGIC REPORT

O'Brien Energy Resources Corp.

Maechtlen # 1
C E/2 SE/4 NW/4 Section 21
Sumner County
Kansas

1/7/98-1/18/98

15-191-22315

Wellsite Geologist: Frank W. Fitch III

STATE OF KANSAS
RECEIVED

FEB 2 1998

WICHITA, KANSAS

ORIGINAL

Company : O'Brien Energy Resources Corporation
75 Congress St.
Portsmouth, N.H. 03801

Lease: Maechtlen # 1

Field: Wildcat

Location: C E/2 SE/4 NW/4 Section 21-T 30 S-R 1 W
Sumner County, Kansas

Contractor: Berentz Drilling

Spud: 1/7/98 Comp: 1/18/98

RTD: 4087 LTD: 4083

Mud Up: 1/12/98 Type Mud: Chemical

Elevations: KB 1292 DF 1289 GL 1287 Measurements all from KB

Casing: Surface 8 5/8" @ 412' Production D&A

Electrical Surveys: Log-Tech DIL NEU-DEN

Samples Saved From: 2700 to TD

Drilling Time Kept From: 2500 to TD

Samples Examined From: 2700 to TD

Geologic Supervision From: 2700 to TD

Geologist On Well: Frank Fitch

FEB 2 1998

Wildcat, Kansas

Geologic Summary:	Formation Tops	Log	Samples
	Kansas City	2958 (-1666)	2962
	Base KC	3184 (-1892)	3195
	Mississippian	3577 (-2285)	3586
	Simpson SS	3985 (-2693)	3982

Prospect Summary: Drilling based on a Simpson show to the north with free oil (10 feet), good structural flattening, isopach thin on the Miss-Simpson interval, and good Miss uphole backup. Came in slightly low and tight on the Simpson reservoir. DST'ed 63 feet of mud from the upper Simpson drilling break. Miss was eighteen feet low to east offset well, indicating may have crossed a small fault.

Geologic Recommendation: Recommended plug and abandon due to lack of reservoir and hydrocarbons in Simpson and up hole reservoirs. Future work might include remap and look at available seismic. Current data does not support another well.

--- FEB 2 1994

FEB 2 1994

CONVENTION DIVISION
Wichita, Kansas

Sample Description from O'Brien Energy Maechtlen # 1 2700-TD:

Depth	Sample Description	Formation
2700-2730	Shale-Grey to black, silty in places Sandstone-White to grey, very fine grained, no vis Por, NS	Stalnaker
2730-2780	Sandstone-Grey to white, friable, very fine grained, some dead oil stn, no vis por, NS Shale-Brown to black, silty	
2780-2830	Shale-Brown to grey, silty, friable Sandstone-White, granular, small clusters, dead oil stn	
2830-2850	Shale-Dark grey to red-brown, very friable Sandstone-Rare small clusters and loose grains, NS	
2850-2880	Shale-Dark grey to red-brown, friable Sandstone-Rare small clusters and loose grains, NS Limestone-Rare, cream, no vis por, NS Chert-Tan to brown	
2880-2900	Shale-Dark grey to brown, silty Sandstone-White to clr, clusters and indiv grns, NS	
2900-2960	Shale-Dark grey to black, scattered pyrite	
2960-2990	Limestone-Cream to buff, fine xline, No vis por. Kansas City No Show	
2990-3000	Limestone-Buff to tan, med. xline, some oolitic, no vis. Por NS Chert-some tan	
3000-3010	Limestone-Buff to Crm, fine xline, fossil (horn coral) in pt, dead oil stn, no vis por, NS	
3010-3020	Limestone-Buff to gr, microxline, no vis por, -NS some pyrite	

FEB 9 1964

Geological Survey
University of Kansas

Sample Description (ctd) page 2

Depth	Sample Description	Formation
3020-30	Limestone-Tan to Crm, some oolitic, dead oil Chert-grey Shale-Black, silty	Kansas City
3030-40	Limestone-Gr to Buff, fossil(pelecypod) in part, dead oil Shale-Black, silty	
3040-70	Limestone-Buff to Crm, fine xline, no vis por, some dead oil Shale -Black, silty	
3070-80	Limestone-Buff to Crm, some oolitic, loose ooids, dead oil Chert -Grey	
3080-90	Limestone-Crm to buff, fine xline, No vis por, NS Chert-White to gr	
3090-3100	Shale-Black Limestone-Buff to crm, fn xline, fossil	Swope Shale
3100-10	Limestone-Buff to gr, fn xline, no vis por, NS Shale-Black Chert-White w/sponge spicules	
3110-20	Limestone-Grey to buff,fn xline, some small oolites, NS Pyrite-in small amts	
3120-30	Limestone-Buff to dk gr, fn xline, fossil in pt, dead oil stn Shale-Dark gr to blk	
3130-40	Limestone-Buff to dk gr, fn xline, fossil(shell & coral), NS Pyrite-small pieces Chert-Gr to tan	
3140-60	Limestone-Buff to dk gr, fn xline, oolitic in pt, dead oil, No vis- por	

FEB 2 1996

Sample Description (ctd) p. 3

Depth	Sample Description
3160-80	Limestone-Tan to crm, fn xline, no vis por, dead oil str Shale-Dk gr to blk
3180-90	Limestone-Buff to crm, oolitic in pt, fn xline, NS Shale-Dk gr to blk
3190-3200	Limestone-Buff to gr, fn xline, no vis por, dead oil str Shale-Dk gr to blk Base KC
3200-20	Limestone-Crm to Buff-fn xline, dead oil on fract, no vis por Shale-Dk gr to blk
3220-40	Limestone-Crm to buff-v fn xline, no vis por, dead oil Shale-Dk gr to blk
3240-50	Limestone-Buff to crm, v fn xline, oolitic in pt, no vis por, NS Shale-lt to dk gr
3250-60	Limestone-Buff to crm, fossil (coiled shell), fn xline, dead oil some vis por Shale-Blk to gr Marmaton
3260-3300	Limestone-Buff to gr, fn xline, no vis por, NS Shale-Blk to gr
3300-50	Limestone-Buff to gr, v fn xline, no vis por, NS Shale Dk gr to blk, slty
3350-80	Limestone-Crm to gr, v fn xline, oolitic, no vis por, NS Shale-Blk to gr, slty
3380-90	Limestone-Buff to gr, v fn xline, no vis por, NS Shale-Dk gr to blk
3390-3400	Shale-Black to gr, slty

FEB 2 1994

Geological Survey
Kansas

Sample Description (ctd.) page 4

Depth	Sample Description
3400-10	Limestone-Buff to gr, v fn xlline,no vis por, NS Shale-Dark gr to blk
3410-20	Limestone-Buff to gr, v fn xlline, no vis por, NS Shale-Dk gr to blk
3420-30	Limestone-Crm to buff, sltly oolitic, no vis por, NS Shale-Dk gr to blk
3430-50	Limestone-Buff to tan,fn xlline, no vis por, NS Cherokee Shale-Blk to dk gr Pyrite
3450-80	Limestone-Tan to crm, cryptoxlline, no vis por, NS Shale-Blk to dk gr
3480-3500	Limestone-Buff to brn, fossil(bryozoan) in pt, no vis por, NS Shale-Dk gr to blk
3500-3510	Dolomite-Buff to crm,v fn xlline,no vis por, NS Shale-Dk gr to blk
3510-20	Shale-Black to grey, silty Dolomite-Crm to Buff, v fn xlline,no vis por, NS
3520-30	Dolomite-Crm to buff, v fn xlline,no vis por, NS Shale-Black to gr, argillaceous
3530-50	Shale-Grey to blk, argillaceous Dolomite-Crm to buff,v fn xlline, no vis por, NS
3550-80	Shale-It to dk gr, argillaceous Chert-White to gr

FEB 9 1974

U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.

Sample Description (ctd.) page 5

Depth	Sample Description	Formation
3580-86 Circ.60"	Shale-Dark grey, argillaceous Dolomite-Crm to buff, fn xline, no vis por, NS Chert-White-several pieces	Mississippian
20/40/60	Samples all examined for shows, porosity, and lithology. Some slight fluorescence, no free oil or cut were seen. No visible porosity was seen in samples, and it was determined that we would drill ahead looking for drilling breaks and shows.	
3586-90	Dolomite-Crm to buff, sucrosic, little fluorescence, no vis por, no odor, no free oil. Shale-Gr to blk, silty	
3590-3600	Dolomite-Buff to tan, sucrosic, v fn xline, no vis por, NS Shale-Dk gr to blk Pyrite	
3600-10	Dolomite-Buff to tan, sucrosic, v fn xline, no vis por, NS Sh-Dk gr to blk	
3610-20	Dolomite-Buff to crm, sucrosic, v fn xline, no vis por, NS Shale-Grey to grn, argillaceous Chert-white	
3620-60	Dolomite-Grey to crm, sucrosic, No vis por, NS Shale-Gr to grn, argillaceous Chert-varicolored	
	Drlg Bk @3660 was Circ 60". Some porosity was visible but no show.	
3660-80	Shale-Dk gr to blk, argillaceous Dolomite-Crm to buff, sucrosic, no vis por, NS	
3680-3700	Shale-Lt gr to dk gr, argillaceous Limestone-Crm to brn, dirty, no vis por, NS	

FEB 9 1960

Sample Description (ctd.) page 6

Depth	Sample Description	Formation
3700-10	Limestone-Gr to brn, dirty, mottled sucrosic, no vis por, NS Shale-Grey to crm, argillaceous Chert-White w/sponge spicules	Mississippian
3710-30	Dolomite-Crm to gr, v fn xlline, dirty, mottled, sucrosic no vis por, NS Shale-Dk gr to grn, argillaceous	
3730-50	Shale-Brn to gr, argillaceous Dolomite-Crm to brn, sucrosic, v fn xlline, no vis por, NS Chert-White to gr	
3750-70	Dolomite-Crm to brn, dirty, limey in pt, no vis por, NS Shale-Lt to dk gr, argillaceous	
3770-80	Dolomite-Brn, dirty, sucrosic, no vis por, NS Shale-Lt to dk gr, argillaceous Pyrite	
3780-90	Shale-Gr to grn, argillaceous Dolomite-Brn, dirty, sucrosic, no vis por, NS Chert-White w/sponge spicules	
3790-3800	Dolomite-Brn to crm, sucrosic, no vis por, NS Shale-Dk gr to grn, argillaceous Chert-white	
3800-10	Dolomite-Brn to crm, sucrosic, no vis por, NS Shale-Lt gr to grn, argillaceous Chert-White Pyrite-some	
3810-20	Shale-Dk to Lt Gr, argill.	

MISSISSIPPIAN
 FEB 2
 CONSERVATION DIVISION
 WICHITA, KANSAS

ORIGINAL

Sample Description (ctd.) page 7

Depth	Sample Description	Formation
3820-30	Dolomite-Dk gr to Brn, sucrosic, no vis por, NS Shale-Lt to dk gr, argillaceous	Mississippian
3830-60	Dolomite-Dark Brn to Gr, friable, sucrosic, no vis por, NS Shale-Lt to dk gr, argillaceous Chert-White w/spnge spicules	
3860-90	Limestone-Dk brn, sucrosic, no vis por, NS Shale-Lt to dk gr, argillaceous, pyrite streaks	
3890-3900	Shale-Lt to dk gr, argillaceous Limestone-Crm to dk brn, dirty, sucrosic, no vis por, NS Chert-White w/sponge spicules	
3900-10	Limestone-Dk brn to crm, dirty, sucrosic, no vis por, NS Shale-Lt to dk gr, sm brn, argillaceous	
3910-20	Dolomite-Dk brn to gr, sucrosic, no vis por, NS Shale-Lt to dk gr, argillaceous	
3920-30	Shale-Lt to dk gr, argillaceous Dolomite-Crm to tan, sucrosic, no vis por, NS	
3930-80	Shale-Dk gr to blk some brn, argillaceous, spores	Kinderhook
3980-90	Sandstone-clear, medium grained, subrounded, clumps and indiv. grains, friable, fluorescence and cut, No free oil.	Simpson
Circulated samples at 3990 for 60", 3992 for 40", and 3994 for 60". Based on 5 feet of drlg break betw 3988-99, plus apparent reservoir and shows, DST # 1 was called.		
3990-4000	Sandstone-clear, medium-grained, subrounded, well sorted, with friable clumps and individual grains,	

RECEIVED
STATE CORPORATION COMMISSION
FEB 5 1968

Depth Sample Description

DST # 1-3985-98 30/60/45/90 Very weak blow both opens Rec'd. 63' M
FP 12-24 31-46 SIP 1281-1278

4000-10 Sandstone-Clear, subrounded, well-sorted clusters and grains
Friable, some interstitial pyrite, apparent por., NS
Shale-Lt to dk gr, argillaceous

4010-30 Sandstone-Clear, subrounded, well-sorted, friable clusters
Pyrite abundant in parts, some fluorescence, no FO
Shale-Lt to dk gr to brn, argillaceous

4030-40 Shale-Gr, red-brn to blk, argillaceous
Sandstone-aa NS

4040-50 Sandstone-Clear, subrounded, well-sorted clusters, pyritic,
no fluorescence, por occluded
Shale-Gr to brn, argillaceous

4050-60 Shale-Gr to brn, argillaceous
Sandstone-Clear, subrounded, well-sorted clusters, pyritic
por filled with silica cement, NS
Chert-cream

4060-4087 Shale-Lt to dk gr, some brn, argillaceous
Sandstone-Clear to white, subrounded, well-sorted, tite
NS

FEB 9 1964
EXHIBITION

ORIGINAL

WELL NAME: Maechtlin "1"
COMPANY: O'Brien Energy Resources
LOCATION: 21-30S-1W
Summer County, Kansas
DATE: 1/21/98

15-191-22315

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TRILOBITE TESTING L.L.C.

OPERATOR : O'Brien Energy Res.
 WELL NAME: Maechtlin No.1
 LOCATION : 21-30S-1W Summer Co.Ks.
 INTERVAL : 3985.00 To 3998.00 ft

DATE 1-16-98
 KB 1292.00 ft TICKET NO: 11001 DST #1
 GR 1287.00 ft FORMATION: Simpson Sand
 TD 3998.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	1566	1566	2357			PF Fr. 2022 to 2052 hr
SI 60 Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 2052 to 2152 hr
SF 30 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 2152 to 2222 hr
FS 90 Depth(ft)	3995.0	3995.0	3987.0	0.0	0.0	FS Fr. 2222 to 2352 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	1731.0	0.0	0.0	T STARTED 1906 hr
B. First Flow	0.0	0.0	12.0	0.0	0.0	T ON BOTM 2019 hr
B1. Final Flow	0.0	0.0	24.0	0.0	0.0	T OPEN 2022 hr
C. In Shut-in	0.0	0.0	1304.0	0.0	0.0	T PULLED 0007 hr
D. Init Flow	0.0	0.0	31.0	0.0	0.0	T OUT 0220 hr
E. Final Flow	0.0	0.0	46.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1303.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	1928.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 53000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 53000.00 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 281.00 ft
						D.P. Length 3677.00 ft

RECOVERY

Tot Fluid 63.00 ft of 63.00 ft in DC and 0.00 ft in DP
 63.00 ft of Mud
 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 2900.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Very weak blow died in 5 min.

Final Flow:
 No blow.

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 49.00 S/L
 W.L. 10.40 in3
 F.C. 0.20 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 114.00 F
 Hole Condition good
 % Porosity 12.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Steve Eisenhour
 Co. Rep. Frank Fitch
 Contr. Berentz
 Rig # 1
 Unit #
 Pump T.

SAMPLES: none
 SENT TO: Caraway Analytical

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

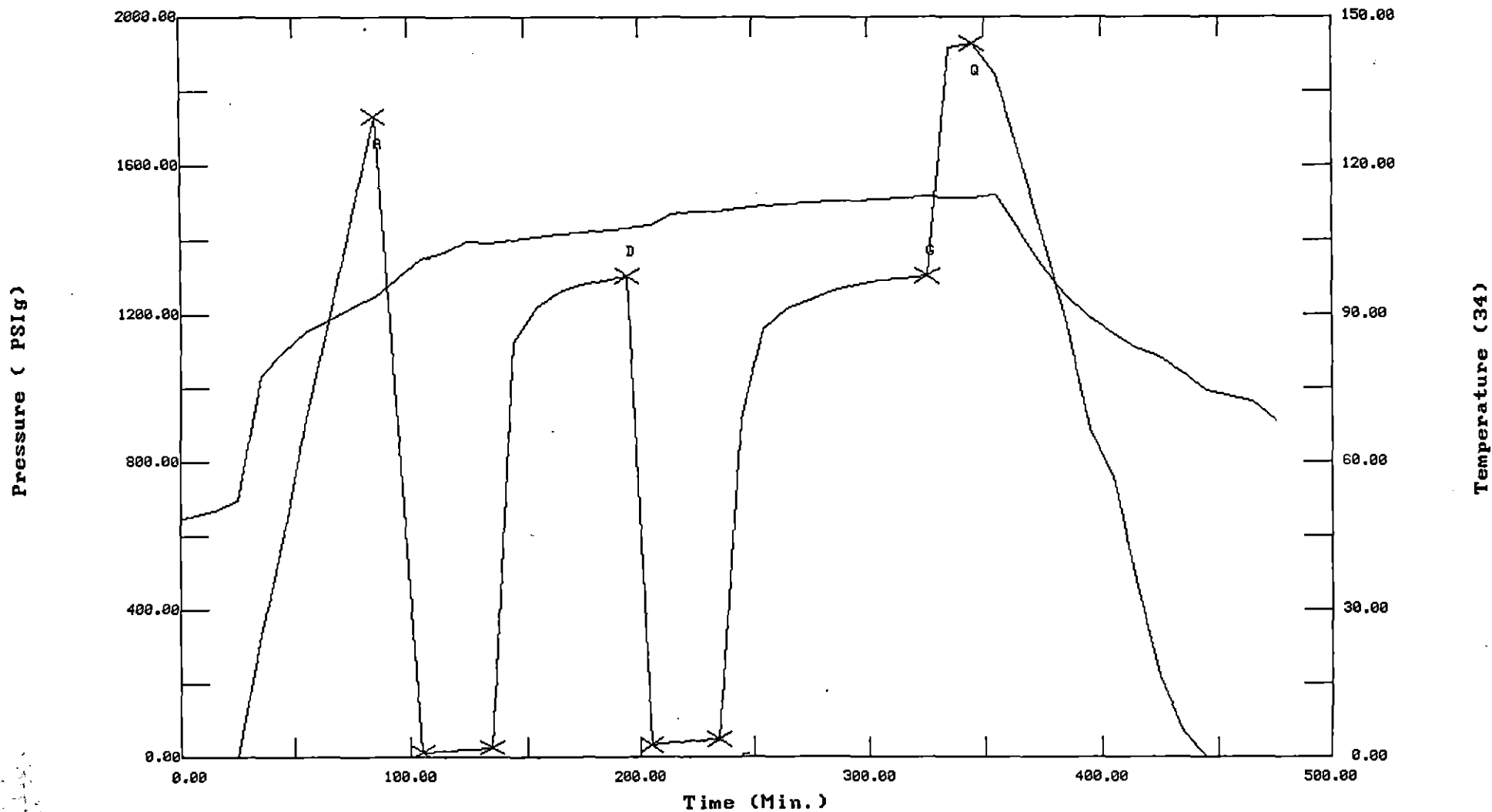
WELL NAME: Maechtlin No.1	P.O. SUB	3957
LOCATION : 21-30S-1W Summer Co.Ks.	C.O. SUB @ top of tool	3958
TICKET No. 11001 D.S.T. No. 1 DATE 1-16-98	S.I. TOOL	3963
TOTAL TOOL TO BOTTOM OF TOP PACKERS 27		
INTERVAL TOOL	HMV	3968
TOTAL PACKERS AND ANCHOR 13	JARS	3973
TOTAL TOOL 40		
DRILL COLLAR ANCHOR IN INTERVAL		
.C. ANCHOR STND.Stands Single Total	SAFETY JOINT	3976
.P. ANCHOR STND.Stands Single Total	PACKER	3980
TOTAL ASSEMBLY 40	PACKER	3985
.C. ABOVE TOOLS.Stands4 Single Total 281	DEPTH 3985	
.P. ABOVE TOOLS.Stands 61 Single 1 Total 3707	STUBB	3986
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4028	ANCHOR	
TOTAL DEPTH 3998	5' perf	3991
TOTAL DRILL PIPE ABOVE K.B. 30	3' perf	3994
REMARKS:	Alpine rec @3987	
FLUID SAMPLER DATA (not run)		
	T.C.	
	DEPTH	
	AK1-rec @3995	
	BULLNOSE 4' perfs	
	T.D.	3998

TEST HISTORY

TK.No.11001 D.S.T.1 MAECHTLIN No.1 O'BRIEN ENERGY RES.

Flag Points

	t(Min.)	P(PSig)
R:	0.00	1730.92
B:	0.00	11.57
C:	30.00	24.41
D:	60.00	1303.89
E:	0.00	31.13
F:	30.00	46.49
G:	90.00	1303.39
Q:	0.00	1928.07



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK.No.11001 D.S.T.1 MAECHTLIN No.1 O'BRIEN ENERGY RES.

DATE: 01/01/55 TIME: -22:-34:-34

	Time	Pressure PSig	delta P PSig	Temp. 34	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	85.00	1730.9	0.0	93.61		
***** Start Flow 1	0.00	11.6	0.0	101.24		
	10.00	16.2	4.6	102.67		
	20.00	20.0	8.4	104.59		
***** End Flow 1	30.00	24.4	12.8	104.43		
***** Start Shutin 1	0.00	24.4	0.0	104.43	0.0000	0.001
	10.00	1125.9	1101.5	105.09	4.0000	1.268
	20.00	1221.4	1197.0	105.65	2.5000	1.492
	30.00	1259.7	1235.2	106.15	2.0000	1.587
	40.00	1281.3	1256.9	106.59	1.7500	1.642
***** End Shut-in 1	60.00	1303.9	1279.5	107.56	1.5000	1.700
***** Start Flow 2	0.00	31.1	0.0	108.03		
	10.00	39.8	8.6	110.13		
	20.00	43.0	11.8	110.61		
***** End Flow 2	30.00	46.5	15.4	110.78		
***** Start Shutin 2	0.00	46.5	0.0	110.78	0.0000	0.002
	10.00	913.2	866.7	111.40	7.0000	0.834
	20.00	1158.6	1112.1	111.93	4.0000	1.342
	30.00	1216.4	1170.0	112.22	3.0000	1.480
	50.00	1265.1	1218.6	112.71	2.2000	1.601
	60.00	1278.1	1231.6	112.95	2.0000	1.634
	70.00	1290.5	1244.0	113.19	1.8571	1.665
	80.00	1297.8	1251.3	113.42	1.7500	1.684
***** End Shut-in 2	90.00	1303.4	1256.9	113.65	1.6667	1.699
***** Final Hydro.	345.00	1928.1	0.0	113.51		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11001

Well Name & No. Maechlin "1" Test No. DST 1 Date 1-16-98
 Company O'Brien Energy Res. Zone Tested Simpson
 Address 75 Congress St. Portsmouth N.H. 03801-4006 Elevation 1292 KB 1287 GL
 Co. Rep / Geo Frank Fitch Cont. _____ Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 21 Twp. 30S Rge. 1W Co. Summer State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3985 - 3998 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 53,000
 Anchor Length 13 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3980 Tool Weight 2,500
 Bottom Packer Depth 3985 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —
 Total Depth 3998 Wt. Pipe Run _____ Drill Collar Run 281
 Mud Wt. 9.4 LCM 1# Vis. 49 WL 10.4 Drill Pipe Size 4 1/2 X H Ft. Run 3007
 Flow Description IF - Very weak blow, died in 5 min
FF - No blow, Flush tool in 10 min, had flush blow, after that
No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>63</u>	_____	<u>63</u>	_____
Sec. <u>63</u> Feet Of <u>mud</u>	%gas	%oil	%water
Sec. _____ Feet Of _____	%gas	%oil	%water
Sec. _____ Feet Of _____	%gas	%oil	%water
Sec. _____ Feet Of _____	%gas	%oil	%water
Sec. _____ Feet Of _____	%gas	%oil	%water

API 114 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides 2900 ppm Recovery Chlorides 2900 ppm System

A) Initial Hydrostatic Mud 1780 PSI Recorder No. 2357 T-Started 19:06
 B) First Initial Flow Pressure 11.57 PSI (depth) 3987 T-Open 20:22
 C) First Final Flow Pressure 24.41 PSI Recorder No. 1566 T-Pulled 12:07
 D) Initial Shut-in Pressure 1286.32 PSI (depth) 3995 T-Out 2:20
 E) Second Initial Flow Pressure 31.13 PSI Recorder No. _____
 F) Second Final Flow Pressure 46.49 PSI (depth) _____
 G) Final Shut-in Pressure 1278 PSI Initial Opening 30 Test ✓
 H) Final Hydrostatic Mud 1842 PSI Initial Shut-in 60 Jars ✓
 Final Flow 45 Safety Joint ✓
 Final Shut-in 90 Straddle _____
 _____ Circ. Sub _____
 _____ Sampler _____
 _____ Extra Packer _____
 _____ Elect. Rec. ✓
 _____ Other _____

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Approved By Frank Fitch