

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

API NO. 15- 063-21500 0000

County Gove

S/2 - NW - SE Sec. 7 Twp. 15S Rge. 27W X

1650 Feet from (S)N (circle one) Line of Section

1980 Feet from (E)W (circle one) Line of Section

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

Lease Name Jim Coberly Well # 1

Field Name Leighton South

Producing Formation None

Elevation: Ground 2505 XB 2513

Total Depth 4330 PBDT

Amount of Surface Pipe Set and Cemented at 202.55 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 cmt.

Drilling Fluid Management Plan DFA U.C.
(Data must be collected from the Reserve Pit) 1224-97

Chloride content 14,000 ppm Fluid volume 2700 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name 4-3-97

Lease Name _____ License No. _____

Quarter Sec. Twp. S' Rng. E/W

County _____ Docket No. _____

Operator: License # 9860

Name: Castle Resources, Inc.

Address 1200 East 27th, Suite C

City/State/Zip Hays, Kansas 67601

Purchaser: _____

Operator Contact Person: Jerry Green

Phone (913) 625-5155

Contractor: Name: Discovery Drilling, Inc.

License: 31548

Wellsite Geologist: Jerry Green

Designate Type of Completion
 New Well Re-Entry Workover

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

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

4/1/97 4/6/97 4/7/97
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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.

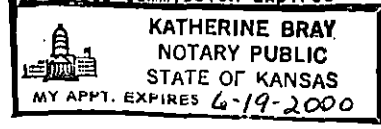
Signature [Signature]
Title President Date 4-24-97

Subscribed and sworn to before me this 24th day of April, 19 97.

Notary Public Katherine Bray

Date Commission Expires 6-19-2000

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)



Operator Name Castle Resources, Inc.

Lease Name Jim Oberly

Well # 1

Sec. 7 Twp. 15S Rge. 27W

East
 West

County Gove

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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Heebner	3695	-1182
Lansing-KC	3735	-1222
Stark Shale	3982	-1469
Fort Scott	4234	-1721
Mississippi	4322	-1809

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 Pipe	12 1/4	8 5/8	20	202.55	60/40Poz	140	2%Gel&3%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

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

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

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

Disposition of Gas:

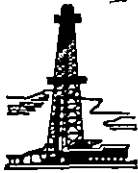
Vented Sold Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Other (Specify)

Production Interval

Commingled



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (913) 623-2920 • CELLULAR (913) 635-1511

ORIGINAL

15-063-21500

DRILLER'S LOG

Operator: **CASTLE RESOURCES, INC.**
1200 East 27th, Suite C
Hays, KS 67601

Contractor: **DISCOVERY DRILLING, INC.**
P.O. Box 763
Hays, KS 67601

Lease: Jim Coberly #1

Location: S/2 NW/SE
Sec. 7/15S/27W
Gove Co., KS

Loggers Total Depth: 4330'
Rotary Total Depth: 4330'
Commenced: 04/01/97
Casing: 8 5/8" @ 202.55 w/140sks

Elevation: 2505' Gr/2513' KB
Completed: 04/07/97
Status: D&A

DEPTHS & FORMATIONS

(All measurements from K.B.)

Surface, Sand & Shale	0'	Shales	1997'
Dakota Sand	765'	Shales & Lime	2210'
Shales	956'	Shales	2328'
Cedar Hill Sand	1501'	Shales & Lime	2471'
Red Bed Shale	1749'	Lime & Shales	3862'
Anhydrite	1962'	RTD	4330'
Base Anhydrite	1997'		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling, Inc. states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 4-14-97.

My Commission Expires: 9-20-2000.

(Place stamp or seal above.)

Notary Public

RECEIVED
KANSAS CORP COMM
1997 APR 30 A 10:17



ALLIED CEMENTING CO., INC.

8467

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL SERVICE POINT: R

DATE <u>4-1-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>10:30am</u>	JOB START	JOB FINISH <u>12:45pm</u>
LEASE <u>Coberly</u>		WELL # <u>1</u>	LOCATION <u>Quarter 19 S 7 W 2 1/2 S 3 1/2 E</u>		COUNTY <u>Greene</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>34N</u>				

CONTRACTOR D. Scammy 112

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 205

CASING SIZE 8 7/8 DEPTH 202 20 1/2

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10-15

PERFS.

DISPLACEMENT 12 1/4

OWNER _____

CEMENT AMOUNT ORDERED 140 6 1/4 3% cc 2% og

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER M. G.

153 HELPER Red

BULK TRUCK

305 DRIVER Drum

BULK TRUCK

DRIVER

TOTAL _____

REMARKS:

Cement Did Circ. ✓

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Castle Resources Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was

RECEIVED
 KANSAS STATE DEPT. OF REVENUE
 APR 11 1997

ALLIED CEMENTING CO., INC.

5440

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: R

DATE <u>4/7/97</u>	SEC. <u>7</u>	TWP. <u>15S</u>	RANGE <u>27W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:15 PM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>Co. only</u>	WELL # <u>1</u>	LOCATION <u>Quarter 19S 7W 22 5 3/4 E 4N</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Discovery Rig 1

TYPE OF JOB plug

HOLE SIZE 7 7/8 T.D. 4330

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 200 @ 6 1/2 gal

1/16 floccul

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

177 Drive

PUMP TRUCK CEMENTER Glen

_____ HELPER _____

BULK TRUCK _____

_____ DRIVER _____

BULK TRUCK _____

213 DRIVER Jason

REMARKS:

25 @ 1990

100 @ 910

40 @ 255

10 @ 40 w/c plug

10 mouse hole

15 Rat hole

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG Dry Hole 82 @ _____

_____ @ _____

RECEIVED
 ALLIED CEMENTING CO.
 KANSAS CITY, MO
 APR 10 1997

TOTAL _____

CHARGE TO: Case Resources

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

ORIGINAL

15-063-21500

WELL NAME: Fossil Gully #1
COMPANY: Castle Resources
LOCATION: 7-15S-27W
Gove County Kansas
DATE: 04/09/97

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources
 WELL NAME: Fossil Gully #1
 LOCATION : 7-15-27
 INTERVAL : 4220.00 To 4330.00 ft

DATE 4-6-97
 KB 2513.00 ft TICKET NO: 9954 DST #1
 GR 2508.00 ft FORMATION: Mississippi
 TD 4330.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	11057	11057	2342			PF Fr. 0106 to 0151 hr
SI 45	Range (Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0151 to 0236 hr
SF 45	Clock (hrs)	12	12 HR	24			SF Fr. 0236 to 0321 hr
FS 45	Depth(ft)	4325.0	4325.0	4261.0	0.0	0.0	FS Fr. 0321 to 0406 hr

	Field	1	2	3	4	
A. Init Hydro	2185.0	2168.0	2184.0	0.0	0.0	T STARTED 2245 hr
B. First Flow	78.0	98.0	33.0	0.0	0.0	T ON BOTM 0102 hr
Bl. Final Flow	89.0	81.0	48.0	0.0	0.0	T OPEN 0106 hr
C. In Shut-in	1174.0	1156.0	1148.0	0.0	0.0	T PULLED 0406 hr
D. Init Flow	100.0	109.0	51.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	100.0	95.0	62.0	0.0	0.0	
F. Fl Shut-in	1152.0	1120.0	1120.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2174.0	2115.0	2076.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 26000.00 lbs

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP
 70.00 ft of Drilling 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
 0.00 ft of

Unseated Str Wt 43000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.60 in
 D.C. Length 0.00 ft
 D.P. Length 4283.00 ft

SALINITY 2000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 .25" at open, built to 1.25"

Initial Shut In:
 No return

Final Flow:
 Weak surface blow, built to .25"

Final Shut In:
 No return

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/c
 Vis. 46.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Shane McBride
 Co. Rep. Jerry Green
 Contr. Discovery
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Fossil Gully #1

LOCATION : 7-15-27

TICKET No. 9954 D.S.T. No. 1 DATE 4-6-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 47

TOTAL TOOL 67

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 63

TOTAL ASSEMBLY 130

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands Single 1 Total 4220

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4350

TOTAL DEPTH 4330

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

P.O. SUB	
C.O. SUB 1'	4200
S.I. TOOL 5'	4206
HMV 5'	4211
JARS	
SAFETY JOINT	
PACKER top	4215
PACKER bottom	4220
DEPTH 4220	
STUBB 1'	4221
ANCHOR 39'perf	4260
1' c.o.	4261
Alpine rec. @ 4261	
T.C.	
DEPTH	
63' drillpipe	4324
1' c.o.	4325
Ak-1 rec. @ 4325	
BULLNOSE 5' bullplug	4330
T.D.	4330

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9954 DST #1 Castle Resources
 DATE: 04/06/97 TIME: 21:42:09

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	143.00	2184.0	0.0	113.45		
***** Start Flow 1	0.00	33.5	0.0	114.13		
	1.00	34.2	0.8	114.22		
	2.00	34.5	1.0	114.28		
	3.00	35.1	1.6	114.34		
	4.00	35.2	1.8	114.40		
	5.00	35.7	2.3	114.46		
	6.00	36.3	2.9	114.54		
	7.00	36.6	3.1	114.61		
	8.00	37.0	3.5	114.69		
	9.00	37.2	3.7	114.77		
	10.00	37.4	3.9	114.86		
	11.00	38.0	4.5	114.95		
	12.00	38.1	4.6	115.04		
	13.00	38.2	4.7	115.13		
	14.00	39.3	5.8	115.23		
	15.00	39.8	6.3	115.32		
	16.00	40.3	6.8	115.42		
	17.00	40.9	7.4	115.52		
	18.00	41.0	7.6	115.62		
	19.00	40.8	7.3	115.72		
	20.00	41.5	8.1	115.81		
	21.00	42.3	8.8	115.91		
	22.00	42.0	8.6	116.01		
	23.00	41.7	8.2	116.10		
	24.00	41.8	8.3	116.20		
	25.00	42.0	8.6	116.29		
	26.00	42.5	9.0	116.39		
	27.00	42.7	9.2	116.49		
	28.00	43.1	9.7	116.58		
	29.00	43.6	10.2	116.67		
	30.00	44.1	10.6	116.77		
	31.00	44.6	11.1	116.85		
	32.00	44.8	11.3	116.95		
	33.00	45.2	11.7	117.05		
	34.00	45.5	12.0	117.13		
	35.00	46.4	12.9	117.23		
	36.00	47.3	13.8	117.31		
	37.00	46.6	13.1	117.40		
	38.00	46.7	13.3	117.48		
	39.00	47.0	13.5	117.58		
	40.00	47.3	13.8	117.66		
	41.00	47.7	14.2	117.74		
	42.00	47.8	14.4	117.83		
***** End Flow 1	43.00	48.1	14.6	117.91		
***** Start Shutin 1	0.00	48.1	0.0	117.91	0.0000	0.002
	1.00	53.3	5.2	117.99	44.0000	0.003
	2.00	83.2	35.1	118.08	22.5000	0.007
	3.00	153.5	105.4	118.16	15.3333	0.024
	4.00	297.1	249.0	118.26	11.7500	0.088
	5.00	474.9	426.8	118.35	9.6000	0.225

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9954 DST #1 Castle Resources
 DATE: 04/06/97 TIME: 21:42:09

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
6.00	629.9	581.8	118.46	8.1667	0.397
7.00	748.2	700.1	118.57	7.1429	0.560
8.00	835.7	787.7	118.68	6.3750	0.698
9.00	899.7	851.6	118.79	5.7778	0.809
10.00	946.5	898.4	118.89	5.3000	0.896
11.00	981.1	933.0	119.00	4.9091	0.963
12.00	1006.9	958.8	119.10	4.5833	1.014
13.00	1026.8	978.8	119.20	4.3077	1.054
14.00	1042.0	993.9	119.29	4.0714	1.086
15.00	1054.2	1006.1	119.38	3.8667	1.111
16.00	1064.1	1016.0	119.45	3.6875	1.132
17.00	1072.4	1024.3	119.55	3.5294	1.150
18.00	1079.4	1031.3	119.63	3.3889	1.165
19.00	1085.4	1037.3	119.70	3.2632	1.178
20.00	1090.7	1042.6	119.77	3.1500	1.190
21.00	1095.6	1047.5	119.84	3.0476	1.200
22.00	1099.9	1051.8	119.91	2.9545	1.210
23.00	1103.8	1055.7	119.99	2.8696	1.218
24.00	1107.3	1059.3	120.05	2.7917	1.226
25.00	1110.6	1062.5	120.11	2.7200	1.233
26.00	1113.6	1065.5	120.18	2.6538	1.240
27.00	1116.5	1068.4	120.24	2.5926	1.247
28.00	1119.2	1071.1	120.31	2.5357	1.253
29.00	1121.7	1073.6	120.37	2.4828	1.258
30.00	1124.0	1076.0	120.43	2.4333	1.263
31.00	1126.2	1078.1	120.49	2.3871	1.268
32.00	1128.2	1080.2	120.56	2.3438	1.273
33.00	1130.2	1082.2	120.61	2.3030	1.277
34.00	1132.1	1084.0	120.67	2.2647	1.282
35.00	1133.9	1085.9	120.73	2.2286	1.286
36.00	1135.7	1087.6	120.79	2.1944	1.290
37.00	1137.3	1089.2	120.84	2.1622	1.293
38.00	1138.8	1090.7	120.90	2.1316	1.297
39.00	1140.3	1092.2	120.96	2.1026	1.300
40.00	1141.7	1093.6	121.01	2.0750	1.303
41.00	1143.1	1095.0	121.06	2.0488	1.307
42.00	1144.3	1096.3	121.12	2.0238	1.310
43.00	1145.8	1097.7	121.17	2.0000	1.313
44.00	1147.0	1099.0	121.22	1.9773	1.316
45.00	1148.2	1100.1	121.28	1.9556	1.318
***** End Shut-in 1					
***** Start Flow 2					
0.00	51.1	0.0	121.28		
1.00	51.2	0.1	121.28		
2.00	51.4	0.3	121.27		
3.00	51.7	0.6	121.28		
4.00	51.9	0.8	121.30		
5.00	52.2	1.1	121.32		
6.00	52.4	1.3	121.35		
7.00	52.7	1.6	121.38		
8.00	53.0	1.9	121.40		
9.00	53.5	2.3	121.45		
10.00	53.9	2.8	121.49		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9954 DST #1 Castle Resources

DATE: 04/06/97 TIME: 21:42:09

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	11.00	54.0	2.9	121.52		
	12.00	54.0	2.9	121.57		
	13.00	54.4	3.3	121.60		
	14.00	54.6	3.5	121.65		
	15.00	54.8	3.7	121.69		
	16.00	55.0	3.9	121.74		
	17.00	55.4	4.3	121.78		
	18.00	55.6	4.4	121.82		
	19.00	55.8	4.7	121.86		
	20.00	56.0	4.9	121.91		
	21.00	56.3	5.2	121.95		
	22.00	56.6	5.5	121.99		
	23.00	57.0	5.9	122.03		
	24.00	57.3	6.2	122.07		
	25.00	57.6	6.5	122.11		
	26.00	58.0	6.9	122.16		
	27.00	58.2	7.0	122.20		
	28.00	58.5	7.4	122.24		
	29.00	58.7	7.6	122.27		
	30.00	58.9	7.8	122.32		
	31.00	59.1	8.0	122.36		
	32.00	59.4	8.3	122.40		
	33.00	59.7	8.6	122.44		
	34.00	59.8	8.7	122.49		
	35.00	60.2	9.1	122.52		
	36.00	60.3	9.2	122.56		
	37.00	60.5	9.4	122.60		
	38.00	60.8	9.7	122.64		
	39.00	61.0	9.9	122.67		
	40.00	61.2	10.1	122.71		
	41.00	61.4	10.3	122.75		
	42.00	61.6	10.5	122.79		
***** End Flow 2	43.00	61.8	10.7	122.82		
***** Start Shutin 2	0.00	61.8	0.0	122.82	0.0000	0.004
	1.00	66.2	4.4	122.85	87.0000	0.004
	2.00	83.0	21.1	122.90	44.0000	0.007
	3.00	109.1	47.3	122.93	29.6667	0.012
	4.00	152.1	90.2	122.97	22.5000	0.023
	5.00	222.7	160.8	123.02	18.2000	0.050
	6.00	326.0	264.1	123.07	15.3333	0.106
	7.00	448.4	386.6	123.12	13.2857	0.201
	8.00	567.2	505.3	123.18	11.7500	0.322
	9.00	669.5	607.6	123.25	10.5556	0.448
	10.00	752.9	691.1	123.31	9.6000	0.567
	11.00	819.0	757.1	123.37	8.8182	0.671
	12.00	871.1	809.2	123.44	8.1667	0.759
	13.00	911.8	849.9	123.50	7.6154	0.831
	14.00	943.6	881.7	123.57	7.1429	0.890
	15.00	968.9	907.0	123.62	6.7333	0.939
	16.00	988.8	927.0	123.68	6.3750	0.978
	17.00	1004.9	943.1	123.73	6.0588	1.010

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9954 DST #1 Castle Resources
 DATE: 04/06/97 TIME: 21:42:09

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	1018.0	956.2	123.78	5.7778	1.036
	19.00	1028.9	967.0	123.82	5.5263	1.059
	20.00	1037.8	976.0	123.88	5.3000	1.077
	21.00	1045.6	983.7	123.92	5.0952	1.093
	22.00	1052.2	990.3	123.96	4.9091	1.107
	23.00	1058.1	996.2	124.01	4.7391	1.120
	24.00	1063.2	1001.3	124.05	4.5833	1.130
	25.00	1067.9	1006.0	124.11	4.4400	1.140
	26.00	1072.1	1010.2	124.13	4.3077	1.149
	27.00	1075.9	1014.0	124.16	4.1852	1.157
	28.00	1079.3	1017.5	124.20	4.0714	1.165
	29.00	1082.6	1020.7	124.24	3.9655	1.172
	30.00	1085.6	1023.8	124.27	3.8667	1.179
	31.00	1088.4	1026.5	124.31	3.7742	1.185
	32.00	1091.0	1029.1	124.34	3.6875	1.190
	33.00	1093.5	1031.6	124.38	3.6061	1.196
	34.00	1095.8	1033.9	124.42	3.5294	1.201
	35.00	1098.0	1036.2	124.45	3.4571	1.206
	36.00	1100.2	1038.4	124.49	3.3889	1.210
	37.00	1102.1	1040.3	124.52	3.3243	1.215
	38.00	1104.1	1042.2	124.55	3.2632	1.219
	39.00	1105.9	1044.1	124.59	3.2051	1.223
	40.00	1107.6	1045.7	124.62	3.1500	1.227
	41.00	1109.3	1047.4	124.65	3.0976	1.230
	42.00	1111.0	1049.2	124.67	3.0476	1.234
	43.00	1112.5	1050.7	124.71	3.0000	1.238
	44.00	1114.0	1052.2	124.75	2.9545	1.241
	45.00	1115.6	1053.7	124.77	2.9111	1.244
	46.00	1116.9	1055.1	124.79	2.8696	1.247
	47.00	1118.3	1056.5	124.82	2.8298	1.251
***** End Shut-in 2	48.00	1119.7	1057.8	124.86	2.7917	1.254
***** Final Hydro.	332.00	2076.2	0.0	125.05		

TEST HISTORY

9954 DST #1 Castle Resources

Flag Points
t(Min.) P(PSig)

A:	0.00	2184.05
B:	0.00	33.48
C:	43.00	48.08
D:	45.00	1148.21
E:	0.00	51.10
F:	43.00	61.85
G:	48.00	1119.67
Q:	0.00	2076.20

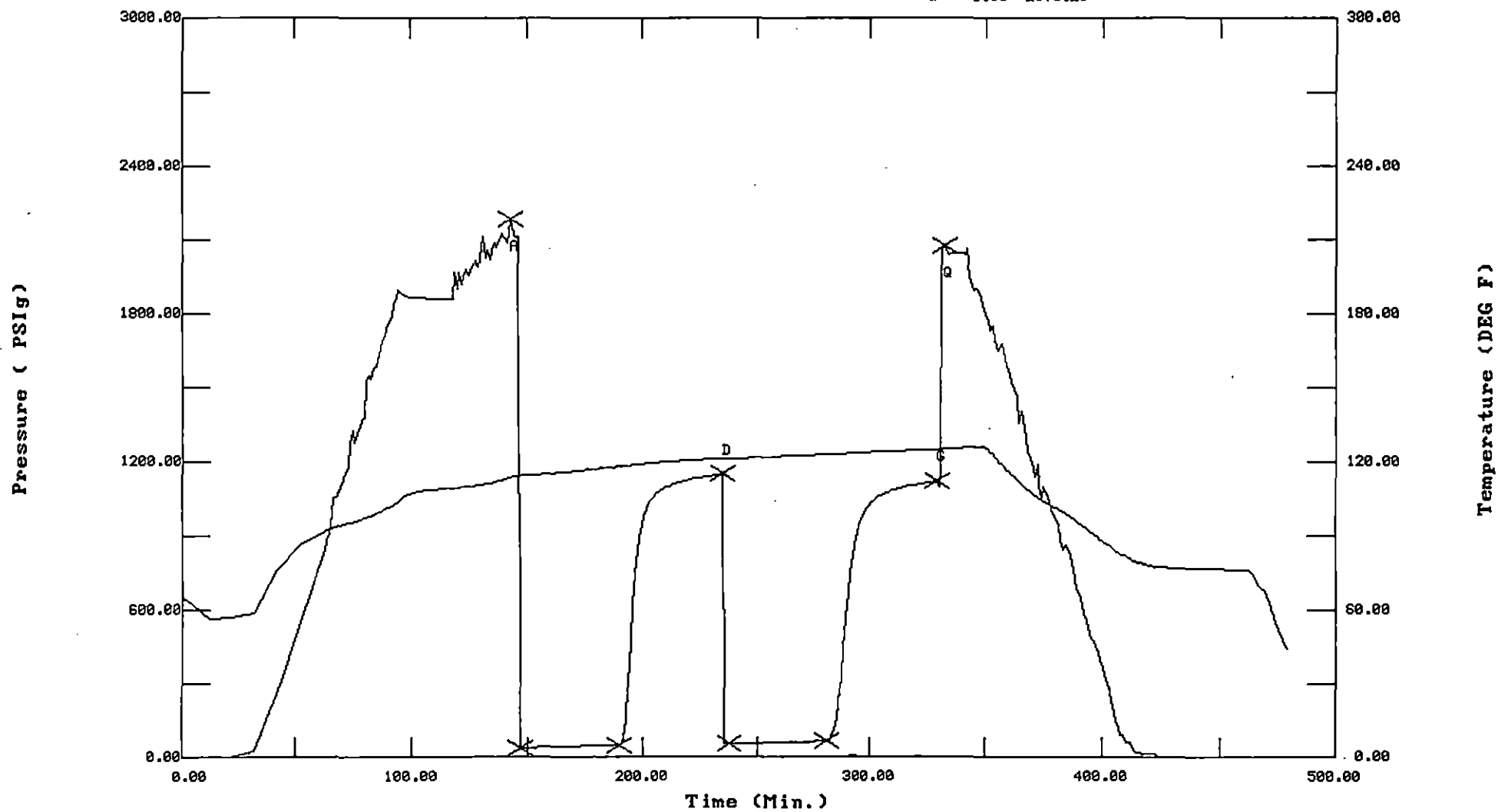
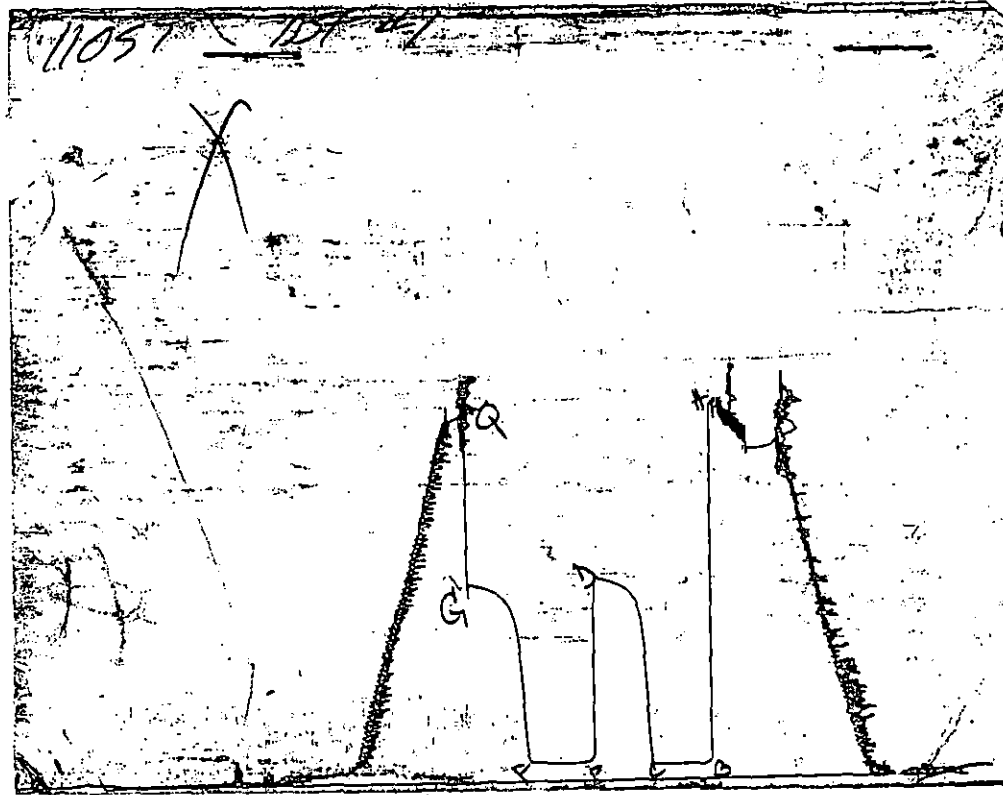


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 9954

Well Name & No. <u>Fossil Gully #1</u>		Test No. <u>1</u>	Date <u>4-6-97</u>
Company <u>Castle Resources</u>		Zone Tested <u>MISS</u>	
Address <u>1200 East 27th St. Suite C Hays KS 67601</u>		Elevation <u>2513'</u>	KB <u>2508'</u> GL
Co. Rep / Geo. <u>Jerry Green</u>		Cont. <u>Dis. #2</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>7</u>	Twp. <u>15</u>	Rge. <u>27</u>	Co. <u>Gove</u> State <u>KS</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>		Turnkey (Y, N) <u>Y</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4220' - 4330'</u>	Initial Str Wt./Lbs. <u>43000</u>	Unseated Str Wt./Lbs. <u>43000</u>
Anchor Length <u>110'</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>73,000</u>
Top Packer Depth <u>4215'</u>	Tool Weight <u>5,000</u>	
Bottom Packer Depth <u>4220'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u>4330'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.4</u> LCM <u> </u> Vis. <u>4/6</u> WL <u>9.0</u>	Drill Pipe Size <u>4 1/2 x 14</u>	Ft. Run <u>422.3'</u>
Blow Description <u>1/2" in @ open, built to 1/4" in.</u>		

ISFI: No return
FSFI: weak surface blow, built to 1/4" in.
ISFI: No return

Recovery — Total Feet <u>70'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>70'</u>
Rec. <u>70</u> Feet Of <u>Only mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u>100</u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>

BHT 124° °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud <u>2125</u> <u>2124</u> PSI	Recorder No. <u>2842</u>	T-Started <u>22:45 P.M.</u>
(B) First Initial Flow Pressure <u>78</u> <u>33</u> PSI	(depth) <u>4261'</u>	T-Open <u>01:06 A.M.</u>
(C) First Final Flow Pressure <u>89</u> <u>48</u> PSI	Recorder No. <u>11057</u>	T-Pulled <u>04:06 A.M.</u>
(D) Initial Shut-in Pressure <u>1174</u> <u>1148</u> PSI	(depth) <u>4325'</u>	T-Out <u>07:00 A.M.</u>
(E) Second Initial Flow Pressure <u>100</u> <u>51</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>100</u> <u>61</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>1152</u> <u>1119</u> PSI	Initial Opening <u>45</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>2174</u> <u>2076</u> PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
	Final Flow <u>45</u>	Safety Joint <u> </u>
	Final Shut-in <u>45</u>	Straddle <u> </u>
		Circ. Sub <u>X</u> <u>N/C</u>
		Sampler <u> </u>
		Extra Packer <u> </u>
		Elect. Rec. <u>X</u>
		Other <u> </u>

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Approved By AK-1 AKP/ML