

WELL NAME: James #3
COMPANY: Castle Resources
LOCATION: 26-16s-29w
Lane County, Kansas
DATE: 11/21/97

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources

DATE 11/19/97

WELL NAME: James #3

KB 2808.00 ft

TICKET NO: 10554

DST #1

LOCATION : Sec26 T16s R29w Lane KS

GR 2800.00 ft

FORMATION: Lansing J

INTERVAL : 4186.00 To 4232.00 ft

TD 4232.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	AK-1	AK-1	Alpine			PF Fr. 0430 to 0500 hr
SI 30 Range (Psi)	4300.0	4300.0	4995.0	0.0	0.0	IS Fr. 0500 to 0530 hr
SF 15 Clock (hrs)	12hr	12hr	Elec			SF Fr. 0530 to 0545 hr
FS 0 Depth(ft)	4227.0	4227.0	4194.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2122.0	2050.0	2035.0	0.0	0.0	T STARTED 0300 hr
B. First Flow	24.0	56.0	1.0	0.0	0.0	T ON BOTM 0428 hr
B1. Final Flow	24.0	31.0	2.0	0.0	0.0	T OPEN 0430 hr
C. In Shut-in	208.0	216.0	215.0	0.0	0.0	T PULLED 0545 hr
D. Init Flow	24.0	43.0	2.0	0.0	0.0	T OUT 0730 hr
E. Final Flow	24.0	43.0	3.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2112.0	2043.0	2026.0	0.0	0.0	Tool Wt. 1900.00 lbs
Inside/Outside	O	O	I	B		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 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 0.00 ft
						D.P. Length 4193.00 ft
						H.W. I.D 2.70 in

RECOVERY

Tot Fluid 3.00 ft of 0.00 ft in DC and 3.00 ft in DP
 3.00 ft of mud with a few oil spots
 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

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

BLOW DESCRIPTION

Initial Flow-
 weak surface blow died in 10
 minutes

Initial Shutin-
 no blow

Final Flow-
 no blow -flush tool - no blow
 after surge

Final Shutin-

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	45.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Jerry Green
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: James #3

LOCATION : Sec26 T16s R29w Lane KS

TICKET No. 10554 D.S.T. No. 1 DATE 11/19/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15 perf

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 67

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands68 Single Total 4193

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4260

TOTAL DEPTH 4232

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

P.O. SUB	
C.O. SUB Top of tool @	4166
S.I. TOOL Sterling	4172
HMV Sterling	4177
JARS Sterling	n/a
SAFETY JOINT Bowen	n/a
PACKER Top	4181
PACKER Bottom	4186
DEPTH 4186	
STUBB 1'	4187
ANCHOR	
2' perf	4189
5' perf	4194
Alpine rec. @4194	
1 joint of pipe & subs to	4227
T.C. DEPTH	
AK-1 rec @ 4227	
BULLNOSE 5' bullplug to	4232
T.D.	

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 10554 Castle Resources James #3 DST #1
 DATE: 11/19/97 TIME: 02:04:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	145.50	2035.1	0.0	110.29		
***** Start Flow 1	0.00	0.2	0.0	110.28		
	0.50	0.5	0.3	110.30		
	1.00	0.6	0.3	110.31		
	1.50	0.7	0.4	110.31		
	2.00	0.8	0.6	110.32		
	2.50	0.8	0.6	110.32		
	3.00	0.9	0.7	110.33		
	3.50	0.9	0.7	110.33		
	4.00	1.0	0.8	110.33		
	4.50	1.0	0.8	110.33		
	5.00	1.0	0.8	110.33		
	5.50	1.0	0.8	110.33		
	6.00	1.1	0.8	110.33		
	6.50	1.1	0.8	110.34		
	7.00	1.2	0.9	110.35		
	7.50	1.2	0.9	110.34		
	8.00	1.2	0.9	110.35		
	8.50	1.1	0.8	110.36		
	9.00	1.3	1.0	110.36		
	9.50	1.3	1.0	110.37		
	10.00	1.3	1.0	110.37		
	10.50	1.3	1.0	110.38		
	11.00	1.3	1.0	110.38		
	11.50	1.3	1.0	110.39		
	12.00	1.3	1.0	110.39		
	12.50	1.3	1.1	110.40		
	13.00	1.3	1.1	110.41		
	13.50	1.3	1.1	110.41		
	14.00	1.3	1.1	110.43		
	14.50	1.3	1.0	110.43		
	15.00	1.3	1.0	110.44		
	15.50	1.3	1.0	110.46		
	16.00	1.4	1.2	110.45		
	16.50	1.4	1.2	110.47		
	17.00	1.4	1.2	110.48		
	17.50	1.3	1.1	110.49		
	18.00	1.3	1.0	110.50		
	18.50	1.3	1.1	110.51		
	19.00	1.4	1.2	110.53		
	19.50	1.4	1.2	110.53		
	20.00	1.4	1.2	110.54		
	20.50	1.4	1.2	110.55		
	21.00	1.4	1.2	110.57		
	21.50	1.4	1.2	110.57		
	22.00	1.3	1.1	110.59		
	22.50	1.3	1.1	110.60		
	23.00	1.5	1.3	110.61		
	23.50	1.5	1.3	110.62		
	24.00	1.5	1.3	110.64		
	24.50	1.5	1.3	110.65		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10554 Castle Resources James #3 DST #1

DATE: 11/19/97

TIME: 02:04:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	1.5	1.3	110.66		
	25.50	1.5	1.3	110.67		
	26.00	1.4	1.2	110.69		
	26.50	1.4	1.2	110.70		
	27.00	1.6	1.4	110.71		
	27.50	1.6	1.4	110.73		
	28.00	1.6	1.4	110.74		
	28.50	1.6	1.4	110.76		
	29.00	1.6	1.4	110.76		
	29.50	1.6	1.4	110.79		
	30.00	1.6	1.4	110.79		
	30.50	1.6	1.4	110.81		
	31.00	1.5	1.3	110.83		
	31.50	1.5	1.3	110.84		
	32.00	1.5	1.3	110.85		
	32.50	1.7	1.4	110.87		
***** End Flow 1	33.00	2.3	2.1	110.88		
***** Start Shutin 1	0.00	2.3	0.0	110.88	0.0000	0.000
	0.50	3.0	0.7	110.90	67.0000	0.000
	1.00	3.8	1.4	110.91	34.0000	0.000
	1.50	4.6	2.3	110.92	23.0000	0.000
	2.00	5.4	3.0	110.94	17.5000	0.000
	2.50	6.2	3.9	110.95	14.2000	0.000
	3.00	7.1	4.8	110.97	12.0000	0.000
	3.50	8.1	5.8	110.99	10.4286	0.000
	4.00	9.1	6.7	110.99	9.2500	0.000
	4.50	10.1	7.7	111.02	8.3333	0.000
	5.00	11.2	8.8	111.03	7.6000	0.000
	5.50	12.2	9.9	111.05	7.0000	0.000
	6.00	13.3	11.0	111.06	6.5000	0.000
	6.50	14.8	12.4	111.08	6.0769	0.000
	7.00	16.0	13.7	111.10	5.7143	0.000
	7.50	17.4	15.0	111.11	5.4000	0.000
	8.00	18.9	16.5	111.13	5.1250	0.000
	8.50	20.5	18.1	111.14	4.8824	0.000
	9.00	22.0	19.6	111.16	4.6667	0.000
	9.50	23.8	21.5	111.18	4.4737	0.001
	10.00	25.7	23.3	111.19	4.3000	0.001
	10.50	27.5	25.2	111.20	4.1429	0.001
	11.00	29.6	27.3	111.22	4.0000	0.001
	11.50	31.8	29.5	111.24	3.8696	0.001
	12.00	34.2	31.8	111.24	3.7500	0.001
	12.50	36.7	34.3	111.27	3.6400	0.001
	13.00	39.4	37.0	111.28	3.5385	0.002
	13.50	42.0	39.7	111.29	3.4444	0.002
	14.00	45.1	42.8	111.31	3.3571	0.002
	14.50	48.4	46.1	111.33	3.2759	0.002
	15.00	51.7	49.3	111.34	3.2000	0.003
	15.50	55.5	53.1	111.36	3.1290	0.003
	16.00	59.2	56.9	111.38	3.0625	0.004
	16.50	63.3	60.9	111.40	3.0000	0.004

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 11/19/97

TIME: 02:04:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	67.6	65.2	111.41	2.9412	0.005
	17.50	72.1	69.7	111.43	2.8857	0.005
	18.00	76.7	74.4	111.44	2.8333	0.006
	18.50	81.6	79.2	111.46	2.7838	0.007
	19.00	86.7	84.3	111.47	2.7368	0.008
	19.50	91.9	89.6	111.49	2.6923	0.008
	20.00	97.4	95.1	111.51	2.6500	0.009
	20.50	103.1	100.7	111.53	2.6098	0.011
	21.00	108.8	106.5	111.54	2.5714	0.012
	21.50	114.9	112.5	111.56	2.5349	0.013
	22.00	120.8	118.4	111.57	2.5000	0.015
	22.50	127.0	124.6	111.60	2.4667	0.016
	23.00	133.2	130.8	111.61	2.4348	0.018
	23.50	139.5	137.1	111.64	2.4043	0.019
	24.00	145.8	143.4	111.65	2.3750	0.021
	24.50	152.0	149.6	111.66	2.3469	0.023
	25.00	158.4	156.0	111.68	2.3200	0.025
	25.50	164.7	162.4	111.69	2.2941	0.027
	26.00	171.2	168.9	111.72	2.2692	0.029
	26.50	177.7	175.3	111.73	2.2453	0.032
	27.00	184.0	181.6	111.75	2.2222	0.034
	27.50	190.4	188.1	111.76	2.2000	0.036
	28.00	196.6	194.3	111.78	2.1786	0.039
	28.50	202.9	200.6	111.80	2.1579	0.041
	29.00	209.1	206.7	111.81	2.1379	0.044
	29.50	215.3	212.9	111.84	2.1186	0.046
***** End Shut-in 1	30.00	214.5	212.2	111.86	2.1000	0.046
***** Start Flow 2	0.00	2.0	0.0	111.86		
	0.50	2.0	0.0	111.87		
	1.00	2.0	0.0	111.88		
	1.50	2.0	0.0	111.89		
	2.00	2.0	0.0	111.90		
	2.50	2.0	0.0	111.91		
	3.00	2.1	0.1	111.92		
	3.50	2.1	0.1	111.95		
	4.00	2.1	0.1	111.95		
	4.50	2.1	0.1	111.97		
	5.00	2.1	0.1	111.98		
	5.50	1.8	-0.3	111.99		
	6.00	2.2	0.2	112.00		
	6.50	2.2	0.2	112.02		
	7.00	2.1	0.1	112.03		
	7.50	2.1	0.1	112.04		
	8.00	2.3	0.3	112.06		
	8.50	2.3	0.3	112.07		
	9.00	2.3	0.3	112.09		
	9.50	2.2	0.2	112.10		
	10.00	2.9	0.9	112.12		
	10.50	2.9	0.9	112.16		
	11.00	2.9	0.9	112.19		
	11.50	3.0	1.0	112.20		

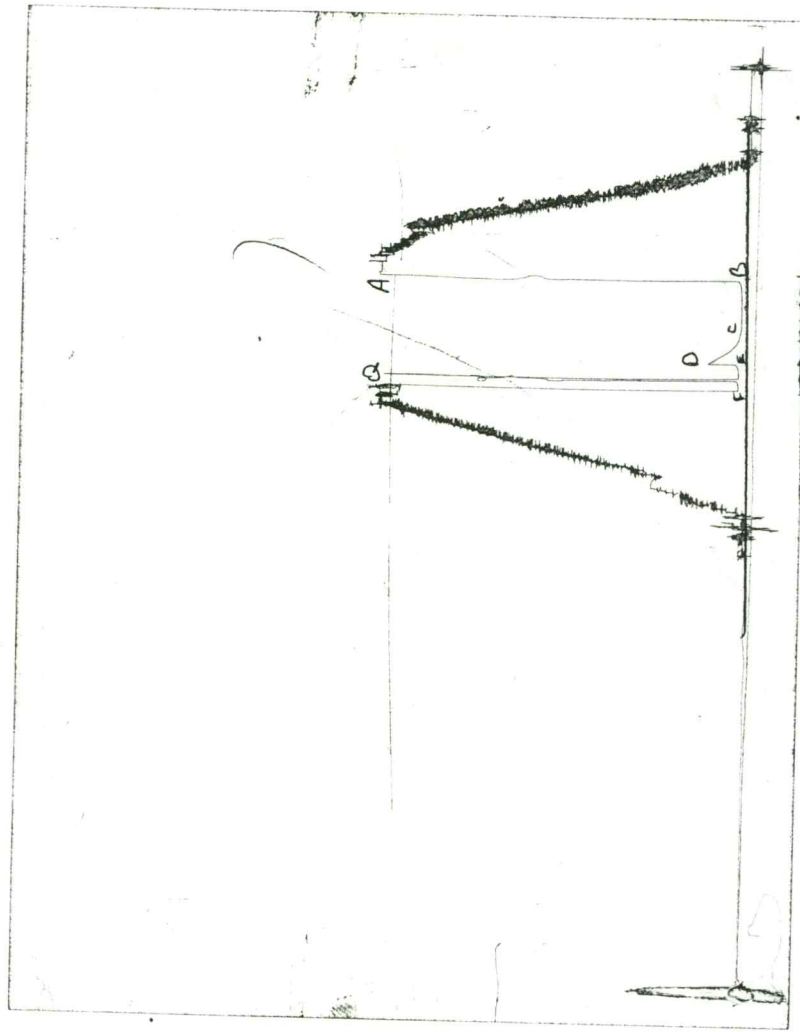
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10554 Castle Resources James #3 DST #1

DATE: 11/19/97 TIME: 02:04:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	12.00	3.0	1.0	112.21		
	12.50	3.1	1.1	112.22		
	13.00	3.1	1.1	112.23		
	13.50	3.0	1.0	112.24		
	14.00	3.2	1.2	112.26		
	14.50	3.0	1.0	112.27		
	15.00	3.1	1.1	112.28		
	15.50	3.1	1.1	112.29		
	16.00	3.2	1.2	112.31		
	16.50	3.1	1.1	112.32		
	17.00	3.0	1	112.33		
***** End Flow 2	17.50	3.2	1.2	112.34		
***** Start Shutin 2	0.00	3.2	0.0	112.34	0.0000	0.000
***** End Shut-in 2	0.50	2026.1	2022.9	112.42	102.0000	4.105
***** Final Hydro.	227.50	2026.1	0.0	112.42		

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 10554

Well Name & No. <u>James #3</u>	Test No. <u>1</u>	Date <u>11-19-97</u>
Company <u>Castle Resources</u>	Zone Tested <u>LKC J</u>	
Address <u>Box 87 Schoenchen Ks 67607</u>	Elevation <u>2808</u>	KB <u>2800</u> GL
Co. Rep / Geo. <u>Jerry Green</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u>	Twp. <u>16s</u>	Rge. <u>29w</u> Co. <u>Lane</u> State <u>Ks</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested 4186-4232 Initial Str Wt./Lbs. 40,000 Unseated Str Wt./Lbs. 40,000
Anchor Length 46 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
Top Packer Depth 4181 Tool Weight 1900
Bottom Packer Depth 4186 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4232 Wt. Pipe Run Drill Collar Run
Mud Wt. 9.4 LCM Vis. 45 WL Drill Pipe Size 4 3/4 Ft. Run 4193
Blow Description Weak surface blow died in 10 minutes

FS - no blow - flush tool no blow after surge

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>3</u>	<u> </u>	<u> </u>	<u>3</u>
Rec. <u>3</u> Feet Of <u>Mud w/ few oil spots</u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud
BHT <u>112</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery	Chlorides <u> </u> ppm System		
(A) Initial Hydrostatic Mud <u>2122</u> <u>2035</u> PSI	Recorder No. <u>2341</u>	T-Started <u>0300</u>	
(B) First Initial Flow Pressure <u>24</u> <u>1</u> PSI	(depth) <u>4194</u>	T-Open <u>0430</u>	
(C) First Final Flow Pressure <u>24</u> <u>2</u> PSI	Recorder No. <u>11084</u>	T-Pulled <u>0545</u>	
(D) Initial Shut-in Pressure <u>208</u> <u>214</u> PSI	(depth) <u>4227</u>	T-Out <u>0530</u>	
(E) Second Initial Flow Pressure <u>24</u> <u>2</u> PSI	Recorder No. <u> </u>		
(F) Second Final Flow Pressure <u>24</u> <u>3</u> PSI	(depth) <u> </u>		
(G) Final Shut-in Pressure <u> </u> <u> </u> PSI	Initial Opening <u>30</u>	Test <u>700</u>	
(H) Final Hydrostatic Mud <u>2112</u> <u>2026</u> PSI	Initial Shut-in <u>30</u>	Jars <u> </u>	

Alpine

Final Flow 15 Safety Joint
Final Shut-in 68 stand Straddle
Circ. Sub
Sampler

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Approved By Paul Simpson
Our Representative

Extra Packer
Elect. Rec. X 150
Other
TOTAL PRICE \$ 850

TEST HISTORY

10554 Castle Resources James #3 DST #1

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2035.07
B:	0.00	0.24
C:	33.00	2.34
D:	30.00	214.51
E:	0.00	2.01
F:	17.50	3.18
Q:	0.00	2026.09

