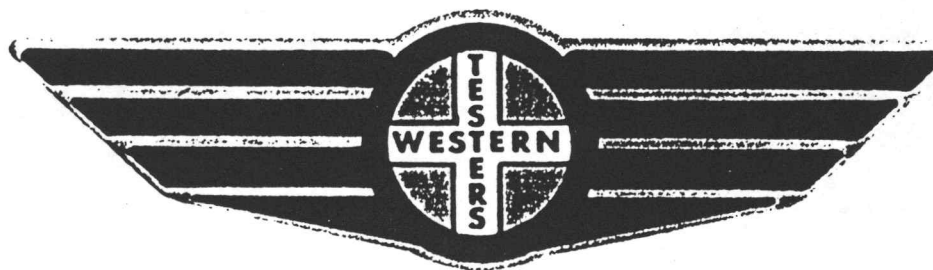


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY _____ CASTLE ROCK PRODUCTION, INC. LEASE & WELL NO. _____ YOUNG A-1
SEC. _____ 15 TWP. _____ 19S RGE. _____ 20W TEST NO. _____ 1 DATE _____ 6/12/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	6-12-88	TICKET	:	13761		
CUSTOMER	:	CASTLE-ROCK PETROLEUM INC.	LEASE	:	YOUNG		
WELL	:	#A-1 TEST: 1	GEOLOGIST	:	R SAENZ		
ELEVATION	:	2258 KB	FORMATION	:	CHEROKEE		
SECTION	:	15	TOWNSHIP	:	19S		
RANGE	:	20W	COUNTY :	RUSH	STATE :	KANSAS	
GAUGE SN#	:	13403	RANGE :	4050	CLOCK	:	12

INTERVAL FROM	:	4255	TO	:	4294	TOTAL DEPTH	:	4294
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4250	SIZE	:	6.63			
PACKER DEPTH	:	4255	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	LOBO			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.2	WATER LOSS (CC)	:	10
CHLORIDES (PPM)	:	24000			
JARS-MAKE	:	-	SERIAL NUMBER	:	-
DID WELL FLOW ?	:	-	REVERSED OUT ?	:	-

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	320	FT	I.D. inch	:	2.75
DRILL PIPE LENGTH	:	3915	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	39	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 FH

BLOW COMMENT #1 : INITIAL FLOW-VERY WEAK BLOW DIED IN 5 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 3 FT OF: MUD

Total Barrels Fluid = 0.02
Total Fluid Prod Rate = 0.53 BFPD
Indicated Wtr Rate = 0.05 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 8:45 PM

TIME STARTED OFF BOTTOM : 10:45 PM

WELL TEMPERATURE : 117

INITIAL HYDROSTATIC PRESSURE

(A) 2152

INITIAL FLOW PERIOD MIN: 30

(B) 45 PSI TO (C) : 45

INITIAL CLOSED IN PERIOD MIN: 30

(D) 45

FINAL FLOW PERIOD MIN: 30

(E) 45 PSI TO (F) : 45

FINAL CLOSED IN PERIOD MIN: 30

(G) 45

FINAL HYDROSTATIC PRESSURE

(H) 2107

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CASTLE-ROCK PETROLEUM INC.
RIG : RUSH-KANSAS
FIELD : YOUNG
WELL : #A-1
DATE : 6-12-88
GAUGE NO : 13403

OPERATIONAL COMMENTS

COMPANY : CASTLE-ROCK PETROLEUM INC.

WELL : #A-1

GAUGE # : 13403

DATE : 12/ 6/88

FIELD : YOUNG

JOB # : 13761

DEPTH : 4294

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8:45: 0	0.000	45.000	117.00	0.000
2	8:49:59	0.083	45.000	117.00	0.000
3	8:55: 0	0.167	45.000	117.00	0.000
4	9: 0: 0	0.250	45.000	117.00	0.000
5	9: 4:59	0.333	45.000	117.00	0.000
6	9:10: 0	0.417	45.000	117.00	0.000
7	9:15: 0	0.500	45.000	117.00	0.000
8	9:18: 0	0.550	45.000	117.00	0.000
9	9:21: 0	0.600	45.000	117.00	0.000
10	9:24: 0	0.650	45.000	117.00	0.000
11	9:27: 0	0.700	45.000	117.00	0.000
12	9:30: 0	0.750	45.000	117.00	0.000
13	9:33: 0	0.800	45.000	117.00	0.000
14	9:36: 0	0.850	45.000	117.00	0.000
15	9:39: 0	0.900	45.000	117.00	0.000
16	9:42: 0	0.950	45.000	117.00	0.000
17	9:45: 0	1.000	45.000	117.00	0.000
18	9:46: 0	1.017	45.000	117.00	0.000
19	9:49:59	1.083	45.000	117.00	0.000
20	9:55: 0	1.167	45.000	117.00	0.000
21	10: 0: 0	1.250	45.000	117.00	0.000
22	10: 4:59	1.333	45.000	117.00	0.000
23	10:10: 0	1.417	45.000	117.00	0.000
24	10:15: 0	1.500	45.000	117.00	0.000
25	10:18: 0	1.550	45.000	117.00	0.000
26	10:21: 0	1.600	45.000	117.00	0.000
27	10:24: 0	1.650	45.000	117.00	0.000
28	10:27: 0	1.700	45.000	117.00	0.000
29	10:30: 0	1.750	45.000	117.00	0.000
30	10:33: 0	1.800	45.000	117.00	0.000
31	10:36: 0	1.850	45.000	117.00	0.000
32	10:39: 0	1.900	45.000	117.00	0.000
33	10:42: 0	1.950	45.000	117.00	0.000
34	10:45: 0	2.000	45.000	117.00	0.000

WESTERN TESTING CO. INC.

JK # 13761

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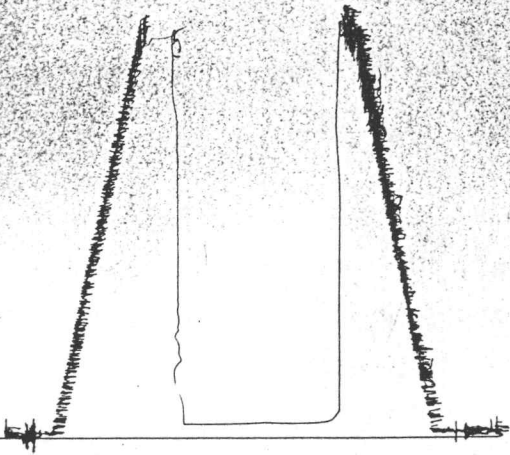


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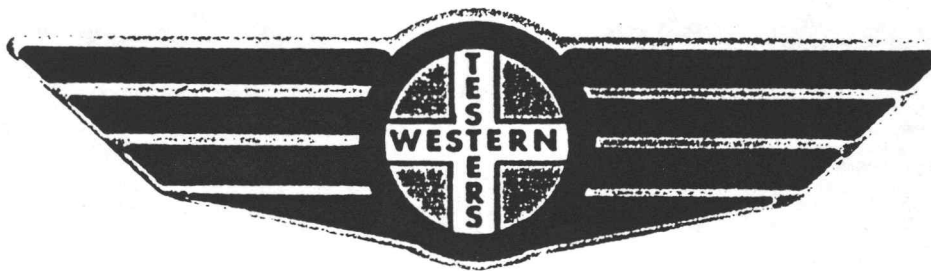


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Sk # 13761



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CASTLE ROCK PRODUCTION, INC. LEASE & WELL NO. YOUNG A-1 SEC. 15 TWP. 19S RGE. 20W TEST NO. 2 DATE 6/13/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	6-13-88	TICKET	:	13762
CUSTOMER	:	CASTLE-ROCK PETROLEUM INC.	LEASE	:	YOUNG
WELL	:	#A-1 TEST: 2	GEOLOGIST	:	R. SAENZ
ELEVATION	:	2258 KB	FORMATION	:	CHEROKEE
SECTION	:	15	TOWNSHIP	:	19S
RANGE	:	20W	COUNTY	:	RUSH
GAUGE SN#	:	13547	RANGE	:	4200
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	4256	TO	:	4307	TOTAL DEPTH	:	4307
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4251	SIZE	:	6.63			
PACKER DEPTH	:	4256	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	LOBO	VISCOSITY	:	46
MUD TYPE	:	CHEMICAL	WATER LOSS (CC)	:	9.2
WEIGHT	:	9.2			
CHLORIDES (PPM)	:	23000	SERIAL NUMBER	:	-
JARS-MAKE	:	-	REVERSED OUT ?	:	-
DID WELL FLOW ?	:	-			

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	320	FT	I.D. inch	:	2.75
DRILL PIPE LENGTH	:	3916	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	51	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW DIED IN 15 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: MUD

Total Barrels Fluid = 0.22
Total Fluid Prod Rate = 5.29 BFPD
Indicated Wtr Rate = 0.53 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 8:00 AM

TIME STARTED OFF BOTTOM : 10:00 AM

WELL TEMPERATURE : 117

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

(A) 2150

INITIAL CLOSED IN PERIOD MIN: 30

(B) 75 PSI TO (C) : 75

FINAL FLOW PERIOD MIN: 30

(D) 75

FINAL CLOSED IN PERIOD MIN: 30

(E) 75 PSI TO (F) : 75

FINAL HYDROSTATIC PRESSURE

(G) 75

(H) 2137

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CASTLE-ROCK PETROLEUM INC.
RIG : RUSH-KANSAS
FIELD : YOUNG
WELL : #A-1
DATE : 6-13-88
GAUGE NO : 13547

OPERATIONAL COMMENTS

COMPANY : CASTLE-ROCK PETROLEUM INC.

FIELD : YOUNG

WELL : #A-1

JOB # : 13762

GAUGE # : 13547

DEPTH : 4307

DATE : 13/ 6/88

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8: 0: 0	0.000	75.000	117.00	0.000
2	8: 4: 59	0.083	75.000	117.00	0.000
3	8:10: 0	0.167	75.000	117.00	0.000
4	8:15: 0	0.250	75.000	117.00	0.000
5	8:19: 59	0.333	75.000	117.00	0.000
6	8:25: 0	0.417	75.000	117.00	0.000
7	8:30: 0	0.500	75.000	117.00	0.000
8	8:33: 0	0.550	75.000	117.00	0.000
9	8:36: 0	0.600	75.000	117.00	0.000
10	8:39: 0	0.650	75.000	117.00	0.000
11	8:42: 0	0.700	75.000	117.00	0.000
12	8:45: 0	0.750	75.000	117.00	0.000
13	8:48: 0	0.800	75.000	117.00	0.000
14	8:51: 0	0.850	75.000	117.00	0.000
15	8:54: 0	0.900	75.000	117.00	0.000
16	8:57: 0	0.950	75.000	117.00	0.000
17	9: 0: 0	1.000	75.000	117.00	0.000
18	9: 1: 0	1.017	75.000	117.00	0.000
19	9: 4: 59	1.083	75.000	117.00	0.000
20	9:10: 0	1.167	75.000	117.00	0.000
21	9:15: 0	1.250	75.000	117.00	0.000
22	9:19: 59	1.333	75.000	117.00	0.000
23	9:25: 0	1.417	75.000	117.00	0.000
24	9:30: 0	1.500	75.000	117.00	0.000
25	9:33: 0	1.550	75.000	117.00	0.000
26	9:36: 0	1.600	75.000	117.00	0.000
27	9:39: 0	1.650	75.000	117.00	0.000
28	9:42: 0	1.700	75.000	117.00	0.000
29	9:45: 0	1.750	75.000	117.00	0.000
30	9:48: 0	1.800	75.000	117.00	0.000
31	9:51: 0	1.850	75.000	117.00	0.000
32	9:54: 0	1.900	75.000	117.00	0.000
33	9:57: 0	1.950	75.000	117.00	0.000
34	10: 0: 0	2.000	75.000	117.00	0.000

WESTERN TESTING CO. INC.

JK # 13762

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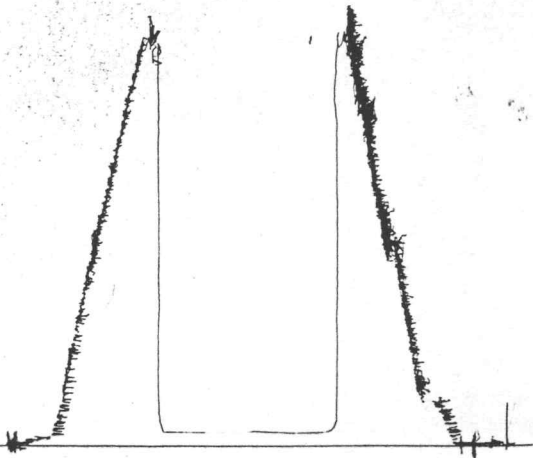
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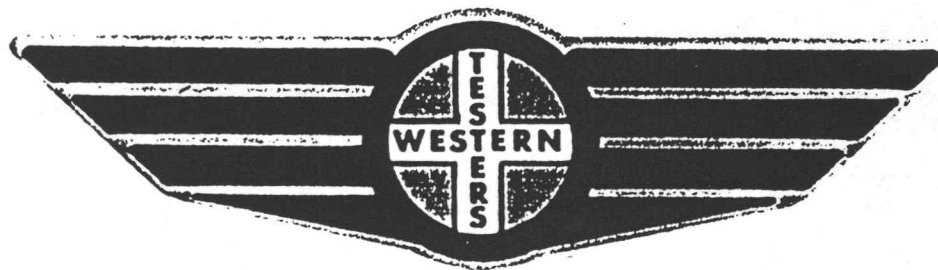
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JK # 13762

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CASTLE ROCK PRODUCTION, INC. LEASE & WELL NO. YOUNG A-1
SEC. 15 TWP. 19S RGE. 20W TEST NO. 3 DATE 6/13/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	6-13-88	TICKET	:	13763
CUSTOMER	:	CASTLE-ROCK PETROLEUM INC.	LEASE	:	YOUNG
WELL	:	#A-1 TEST: 3	GEOLOGIST	:	R SAENZ
ELEVATION	:	2258 KB	FORMATION	:	MISSISSIPPI
SECTION	:	15	TOWNSHIP	:	19S
RANGE	:	20W	STATE	:	KANSAS
Gauge SN#	:	13403	CLOCK	:	12
		COUNTY :	RUSH		
		RANGE :	4050		

INTERVAL FROM	:	4379	TO	:	4388	TOTAL DEPTH	:	4388
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4374	SIZE	:	6.63			
PACKER DEPTH	:	4379	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	LOBO	VISCOSITY	:	46
MUD TYPE	:	CHEMICAL	WATER LOSS (CC)	:	9.2
WEIGHT	:	9.2			
CHLORIDES (PPM)	:	23000	SERIAL NUMBER	:	-
JARS-MAKE	:	-	REVERSED OUT ?	:	-
DID WELL FLOW ?	:	-			

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	320	FT	I.D. inch	:	2.75
DRILL PIPE LENGTH	:	4039	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	9	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW DIED IN 20 MINUTES.
BLOW COMMENT #2 : FINAL FLWO-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: MUD

Total Barrels Fluid = 0.15
Total Fluid Prod Rate = 3.53 BFPD
Indicated Wtr Rate = 0.35 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 9:50 PM

TIME STARTED OFF BOTTOM : 11:50 PM

WELL TEMPERATURE : 121

INITIAL HYDROSTATIC PRESSURE

(A) 2140

INITIAL FLOW PERIOD MIN: 30

(B) 63 PSI TO (C) : 42

INITIAL CLOSED IN PERIOD MIN: 33

(D) 1061

FINAL FLOW PERIOD MIN: 30

(E) 44 PSI TO (F) : 44

FINAL CLOSED IN PERIOD MIN: 27

(G) 874

FINAL HYDROSTATIC PRESSURE

(H) 2140

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CASTLE-ROCK PETROLEUM INC.
RIG : RUSH-KANSAS
FIELD : YOUNG
WELL : #A-1
DATE : 6-13-88
GAUGE NO : 13403

OPERATIONAL COMMENTS

COMPANY : CASTLE-ROCK PETROLEUM INC.

WELL : #A-1

GAUGE # : 13403

DATE : 13/ 6/88

FIELD : YOUNG

JOB # : 13763

DEPTH : 4388

TEST :

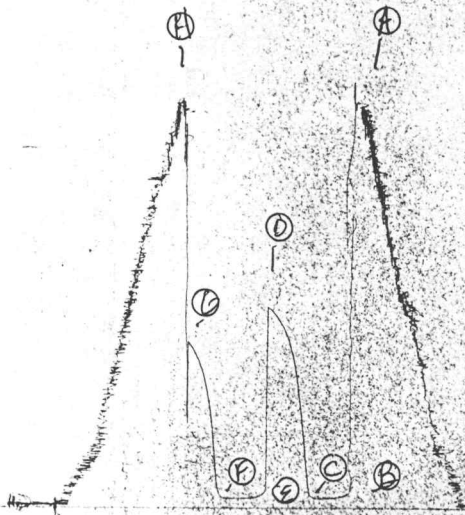
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:50: 0	0.000	63.000	121.00	0.000
2	9:54:59	0.083	54.000	121.00	-9.000
3	10: 0: 0	0.167	46.000	121.00	-8.000
4	10: 5: 0	0.250	43.000	121.00	-3.000
5	10: 9:59	0.333	42.000	121.00	-1.000
6	10:15: 0	0.417	42.000	121.00	0.000
7	10:20: 0	0.500	42.000	121.00	0.000
8	10:23: 0	0.550	84.000	121.00	42.000
9	10:26: 0	0.600	309.000	121.00	225.000
10	10:29: 0	0.650	527.000	121.00	218.000
11	10:32: 0	0.700	714.000	121.00	187.000
12	10:35: 0	0.750	820.000	121.00	106.000
13	10:38: 0	0.800	894.000	121.00	74.000
14	10:41: 0	0.850	952.000	121.00	58.000
15	10:44: 0	0.900	983.000	121.00	31.000
16	10:47: 0	0.950	1017.000	121.00	34.000
17	10:50: 0	1.000	1047.000	121.00	30.000
18	10:53: 0	1.050	1061.000	121.00	14.000
19	10:54: 0	1.067	44.000	121.00	-1017.000
20	10:57:59	1.133	44.000	121.00	0.000
21	11: 3: 0	1.217	44.000	121.00	0.000
22	11: 8: 0	1.300	44.000	121.00	0.000
23	11:12:59	1.383	44.000	121.00	0.000
24	11:18: 0	1.467	44.000	121.00	0.000
25	11:23: 0	1.550	44.000	121.00	0.000
26	11:26: 0	1.600	48.000	121.00	4.000
27	11:29: 0	1.650	92.000	121.00	44.000
28	11:32: 0	1.700	344.000	121.00	252.000
29	11:35: 0	1.750	556.000	121.00	212.000
30	11:38: 0	1.800	673.000	121.00	117.000
31	11:41: 0	1.850	756.000	121.00	83.000
32	11:44: 0	1.900	806.000	121.00	50.000
33	11:47: 0	1.950	847.000	121.00	41.000
34	11:50: 0	2.000	874.000	121.00	27.000

WESTERN TESTING CO. INC.

JK # 13763

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Alt # 13763

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