



BEST IMAGE
AVAILABLE

Sharples #4 Talamantes Creek

- 4134-59 ss, fg gr "S&P" CF, tight to poor perm
- 91 sh, gr, gr-br, blk
- 4216 siltstone, gr and br
- 4216-60 ss, fg, mg, cg gr "S&P" sl CF, ptly loose grains,
poor to fair perm

Fort Union

- 4260-97 sh, gr, gr-grn, grn-br, gr-br; siltstone, gr and br
- 4307 ss, fg to mg gr sl "S&P" sl CF, poor perm
- 4307-91 sh, gr, br, blk
- 99 ss, vfg gr "S&P" CF, tight
- 4450 siltstone, gr ptly shaly; sh, gr and blk
- 4450-4880 sh, gr and br; siltstone, gr
- 4880-96 ss, vfg gr "S&P" tight; siltstone, gr
- 4915 sh, gr
- 4915-46 ss, vfg gr sl "S&P" silty, calc, tight
- 5006 siltstone, gr and br; sh, gr, gr-grn, br
- 5006-20 ss, vfg gr sl "S&P" silty, calc, tight
- 61 sh, gr, gr-grn, blk; siltstone, gr and br shaly
- 70 siltstone, gr
- 74 coal
- 82 siltstone, gr
- 5100 sh, blk ptly silty
- 5100-10 siltstone, gr ptly shaly
- 47 ss, vfg to fg gr to gr-tan "S&P" ptly calc, ptly
shaly, tight
- 51 siltstone, gr ptly shaly
- 58 coal
- 70 siltstone, br shaly; streaks of coal
- 92 sh, gr, gr-grn, br, blk
- 5203 ss, vfg gr clean, tight
- 5203-36 sh, gr, gr-grn, br, blk
- 90 ss, fg to mg gr clean, ptly sl CF, poor to fair
perm, basal part has blk sh grains and coarse
chert fragments, milky and smoky
- 5325 sh, gr, gr-grn, br; ss, vfg, fg, mg "S&P" CF, ptly
shaly, ptly sl silc, tight

Lance

- 5325-40 ss, fg gr "S&P" CF, tight to poor perm
- 80 ss, vfg to fg wh to gr CF, tight to poor perm

Lewis

- 5380-5407 ss, vfg gr "S&P" calc, silty, ptly shaly, tight
(almost a siltstone)
- 5407-30 siltstone, gr ptly shaly; sh, dk gr silty

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Sample Description
(interpretive samples using log depths)

Lower Wasatch

- 3004-37 ss, vfg to fg gr ptly calc, tight
40 sh, varicolored
46 coal
67 sh, varicolored
81 ss, fg gr "S&P" sl CF, tight
86 coal
93 sh, varicolored
3108 ss, fg gr "S&P" sl CF, tight to poor perm
3108-20 sh, varicolored
42 ss, fg gr "S&P" sl CF, tight to poor perm
51 sh, varicolored
59 coal
3250 sh, gr, gr-grn, grn-br, blk; siltstone, dk gr ptly shaly
3250-3327 sh, gr, gr-grn, blk
3327-32 coal
86 sh, gr and gr-br; siltstone, gr sdy "S&P" ptly shaly. tight
92 coal
3403 sh, gr
3403-31 ss, fg gr "S&P" CF, tight
3601 sh, gr, gr-grn, blk; siltstone, gr ptly shaly
3601-60 siltstone, same; sh, gr and gr-grn
76 ss, fg gr "S&P" sl CF, poor perm
95 sh, gr, gr-grn, grn-br
3706 ls, litho br sile
3706-22 sh, gr and blk
34 siltstone, gr ptly shaly
67 ss, fg gr "S&P" CF, tight
91 ss, vfg gr "S&P" ptly shaly, tight
3810 sh, gr and blk
3810-46 siltstone, gr ptly shaly; sh, gr and blk
76 siltstone, same; ss, vfg gr silty calc "S&P", tight
3921 sh, gr and blk
3921-67 siltstone, gr ptly shaly; ss, vfg gr "S&P" ptly shaly, CF, tight
73 sh, blk
78 coal
88 sh, gr, gr-grn, br, blk
4002 sh, dk br calc
4002-11 siltstone, gr
32 sh, gr and blk
44 ls, litho br sile
4134 siltstone, gr ptly shaly; sh, gr and blk

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Discussion

This well was structurally considerably lower than anticipated. On the primary objective, the lower Fort Union sandstone, it was 40' low to a similar development in the northeast offset, which had good oil shows.

There were no shows of oil in the samples. The gas detector picked up two gas shows worthy of mention:

- (1) While drilling in the Wasatch at 3310 a gas kick occurred that continued until 50 minutes after starting to circulate at 3330. At that time, it seemed probable that the gas had come from a sand that had just been drilled. Loose sand grains were noted in the samples, not in a large amount but enough grains to make the show to be apparently coming from a sand. It was decided to run a DST of the show. However, when the testing tool was ready to be run in the hole a 2" stream of mud was noticed to be coming out of the hole. This made it too dangerous to test because of the chance of getting stuck by the hole caving so the idea of testing was abandoned. It was decided that there would be no use testing after getting the flow stopped since along with the flow of mud the mud had been getting lighter, the viscosity decreasing, the water loss rapidly rising and the chloride content increasing. All the evidence pointed to a salty water flow. After logging, it was apparent that the water had broken in, evidently with some gas associated, from up the hole as the last sand drilled above the show was at 3140.
- (2) There was a gas kick from a thin mostly tight stray sand in the upper Fort Union 4297-4307. Samples indicated that this sand was mostly tight and drilling time did not point to any appreciable thickness. Log analysis gave this sand four feet of 14% porosity with the other six feet ranging down to 5% porosity. Since it was decided that regardless of what a test would have shown that no completion would be attempted from this zone, it was not tested.

There is no question in my opinion but that this is a dry hole. However, the 54' thick lower Fort Union sandstone is the best developed of any in the area. This good sand development with good oil shows present in the adjacent higher well makes the area still prospective. This lower Fort Union sand seems to be developed in enough wells that a nearby appreciably higher well should have a good chance of being commercially productive.

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Hole Deviation

<u>Depth</u>	<u>Degrees</u>
219	3/4
375	1/2
643	1/2
892	1/2
1234	1/4
1537	1/2
1846	3/4
2062	3/4
2273	1/4
2459	1/2
2644	3/4
2764	1-1/4
3015	1
3330	2
3563	1-3/4
3889	2
4043	1-1/2
4186	1-1/2
4438	1
4677	3/4
4988	1/2
5252	3/4

Plugging Program

50 sacks cement 5340-5180
35 sacks cement 4300-4200
35 sacks cement 3200-3100
50 sacks cement 280-220
5 sacks cement at top

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Well History

<u>Date</u>	<u>8 AM Depth</u>	<u>Remarks</u>
12-19-63		Spudded 7 PM.
12-20-63	300	Set surface casing, plug down 10:30 AM.
12-21-63	300	Drilled plug 11 AM.
12-22-63	1519	
12-23-63	2650	
12-24-63	3060	Circulate for DST at 3330. When ready to start in hole with test tool noticed well flowing 2" stream of mud. While circulating for test salt content had gone from 200 to 1200 ppm chloride, also water loss had gone from 8.5 to 25 until brought back down by additional treatment. DST cancelled.
12-25-63	3467	Mixed heavier mud, shut off water flow.
12-26-63	3889	
12-27-63	4186	Water still coming in, flows 1/2" stream of mud with 10.0 weight. Added mud to bring weight to 10.2.
12-28-63	4439	
12-29-63	4654	
12-30-63	4860	
12-31-63	5055	
1-1-64	5229	
1-2-64	5368	
1-3-64	5430	Ran logs. Plugged.

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Drilling Time

1900-2000	8-8-6-6-11	7-7-7-8-9
2000-2100	13-9-11-21-13	16-15-11-8-8
2100-2200	4-6-5-5-8	3-3-2-3-2
2200-2300	5-5-11-9-11	5-11-10-7-8
2300-2400	12-5-3-7-10	12-12-13-7-8
2400-2500	5-5-11-13-10	13-10-13-19-14
2500-2600	13-12-13-10-10	10-9-6-4-12
2600-2700	11-13-10-17-19	19-13-13-10-11
2700-2800	14-14-11-14-14	27-16-8-4-5
2800-2900	16-13-11-16-15	18-16-28-29-24
2900-3000	34-33-37-36-29	37-29-35-37-27
3000-3100	25-36-24-29-35	59-19-18-7-9
3100-3200	8-8-7-8-12	12-16-12-11-15
3200-3300	18-23-24-14-27	27-15-16-15-15
3300-3400	16-25-25-14-17	13-16-18-12-16
3400-3500	15-10-10-14-25	22-14-28-24-24
3500-3600	16-12-11-24-30	24-29-13-14-14
3600-3700	10-17-16-18-22	23-19-12-23-23
3700-3800	29-20-31-26-20	26-19-34-36-32
3800-3900	38-43-35-43-35	33-39-36-37-19
3900-4000	21-24-27-29-36	40-31-18-41-43
4000-4100	39-42-42-55-36	30-19-21-38-30
4100-4200	32-46-33-23-35	23-38-61-43-27
4200-4300	30-26-17-19-17	23-25-29-28-37
4300-4400	33-64-40-41-30	40-40-41-45-36
4400-4500	45-47-51-57-35	25-45-29-38-46
4500-4600	49-56-57-45-37	56-50-49-46-47
4600-4700	63-81-70-67-75	84-81-88-33-43
4700-4800	57-38-47-42-48	53-48-54-50-45
4800-4900	60-47-50-62-60	61-47-39-41-46
4900-5000	44-47-44-43-51	68-66-63-66-43
5000-5100	47-56-37-48-42	54-44-42-49-43
5100-5200	63-36-37-40-47	36-40-62-62-125
5200-5300	117-123-160-159-54	71-37-45-39-109
5300-5400	127-109-94-51-63	64-63-69-81-66
5400-5430	82-80-87	