

Russian Fiddler 36N-18HZ

API: 05-123-362130000



L:\SharedData\Denver\Wattenberg\HZ_WELL_FILES\2N65W\Sect_18\RUSSIAN FIDDLER 35-19HZ\RUSSIAN FIDDLER 36N-18HZ\Reports and plots

Operational Highlights:

- No major operational highlights.

Operational Difficulties:

- TOOH due to an MWD failure at 8623'
- Well TD's 300' short of planned TD due to the BHA getting stuck for several hours at 12128' and our inability to slide
- At TD, worked tight hole and pulled up to 315Klbs off bottom. Performed a dedicated reamer run and washed and reamed from 9242-10275' MD. Could only ream to 10797' MD until they got stood up. Tried to get past 10797' MD for 12 hours. Decision made to pick up at PDC bit, motor, and MWD tool to attempt to get past bridge at 10797' MD: still unable to get past. **Decision made to sidetrack the well.**

Lessons Learned/ Notes:

- Performed a 20 stand wiper trip at 11095', worked a tight spot at 10430' and reamed back to bottom
- Uncertain as to reason why we couldn't get past 10797' MD. Likely not Sharon Springs. Possibly a crumbled zone due to fault.
- Decision made to sidetrack the well back at 9650' MD.

Completions Status:

- Unable to get reamer past 10797' during reamer run
- Original wellbore will be sidetracked.
- 69% B Shale, 3% B Chalk, 16% B Marls, 13% A Shale

Geologist: Alec Duncan
 Geosteerer: Zack Heider/Rhead Cannon
 Geophysicist: Aaron Rothfolk
 Drilling Engineer: Mike Schmiegelt
 Rig: Ensign 145
 MWD/ Directional: Baker Hughes
 PC/Wireline Logs: none
 Mudloggers: Columbine
 Offset Well(s): Helgoth Heirs 2

Tops	MD	TVD	TVDSS	Hi/lo to prog
Sharon Springs	7,231'	7,044'	-2,031'	19' high
Niobrara A	7,320'	7,099'	-2,086'	19' high
Niobrara B	7,411'	7,146'	-2,133'	11' high
Landing Depth	7,668'	7,209'	-2,196'	1' low
Toe Depth	12,128'	7,180'	-2,167'	7' low

Fault #:	Projected	MD	VS	Throw
1	N	8,902'	1,593'	4' down
2	N	9,192'	1,883'	12' up
3	N	9,767'	2,458'	12' down
4	Y	10,753'	3,444'	113' down
5	N	11,248'	3,938'	15' up
6	N	11,631'	4,321'	11' down

Sec2-T65N-R19W	Pad: Russian Fiddler 35-18HZ
Spud Date	5/17/2013
Rig Release Date	NA
RKB	5,013'
MWD	GR Only
PCL	none
Target Zone	Nio B Chalk
KOP	6,762'
7" Casing TD	7,668'
Lateral TD	12,128'
Lateral Length	4,460'
Formation @ TD	Niobrara B Chalk
Ave Inst Lat ROP	164.3
Ave Lat Gas	3,494
% in Zone	3%

#	Target Changes:	Window	MD	Target Met	Comments
0	7208' @ 0' VS w/ 90.0° INC	10' up/ 10' down	0'	Y	Landing/ Drill Out Target
1	7269' @ 0' VS w/ 91.0° INC	10' up/ 10' down	10,787'	Y	Follow B Bench after fault #4

Please see Russian Fiddler 36N-18HZX for the sidetracked wellbore

