

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

| # | 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

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% |

