



HILCORP ENERGY COMPANY
MITCHELL 1E
MESA VERDE RECOMPLETION SUNDRY

API #:

3004523645

JOB PROCEDURES

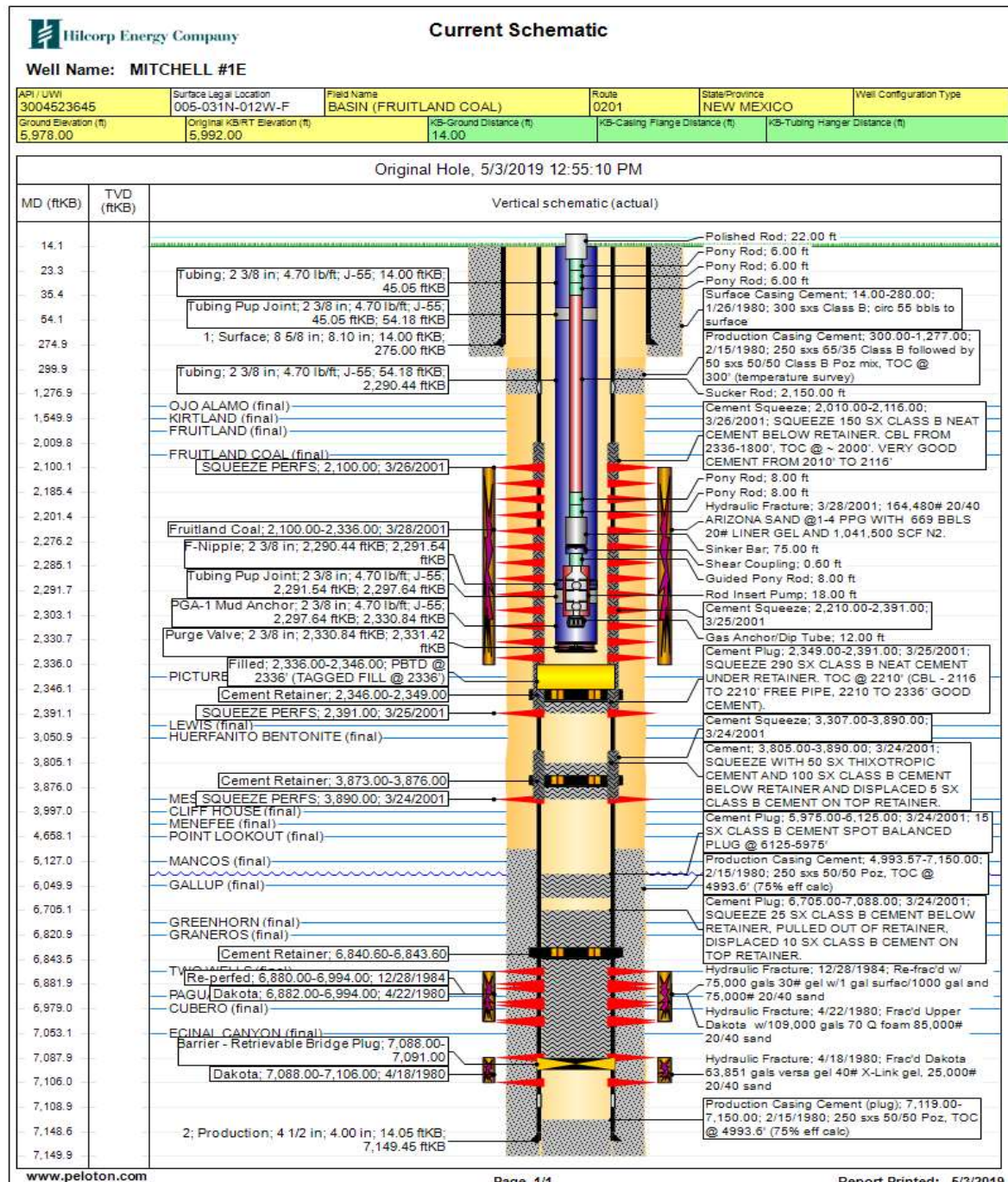
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|-------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | NMOCD | Contact OCD and BLM (where applicable) 24 hrs prior to MIRU. Record and document all casing pressures <u>daily</u>, including BH, IC (if present) and PC. Comply with all NMOCD, BLM (where applicable), and HEC safety and environmental regulations. |
| <input checked="" type="checkbox"/> | BLM | |

1. MIRU workover rig and associated equipment; NU and test BOP.
2. Gather **Fruitland Coal** gas analysis. TOOH with **2 3/8"** tubing set at **2,331'**
3. Drill out CICR @ **2346'**
4. Drill out CICR @ **3873'**, CO to PBTD at 5975'
NOTE: PBTD below this CICR is a balanced plug laid f/ 6125-5975' and a CICR set at 6840' w/ 90' of cement on top
5. Load hole with fluid and run a CBL on the 4-1/2" casing. Verify cement bond within the **Mesa Verde** and confirm TOC. Review CBL results with BLM and NMOCD and perform cmt remediation, as required.
6. RIH w/ a pkr and set 50' below the bottom FRC perforation (2336'). Contact the NMOCD and BLM, conduct a witnessed MIT below the packer and above the balanced plug
7. Set a **4-1/2"** cast iron bridge plug at +/- **5227'** to provide a base for the frac
8. Perforate the **Mesa Verde**. (Top perforation @ 3997', Bottom perforation @ 5127')
9. RIH w/ frac string and packer with ceramic disc sub. Set pkr 50-75' above the top MV perforation and land tbq.
10. ND BOPs, NU frac stack. PT frac stack to 9,000#. PT frac string to 9,000#, PT backside to 300# (to insure packer is set).
NOTE: frac string is 2-7/8" 6.5# P110 with BTS-8 connections. PT is to max anticipated treating pressure (~60% of burst)
11. RU slickline. RIH and break ceramic disc. RD slickline
12. Frac the **Mesa Verde** in 1-2 stages down the frac string.
13. Flowback well for 1-3 days, as required
14. MIRU workover rig. Nipple down frac stack, nipple up BOPs and test.
15. Release packer and POOH w/ frac string
16. RIH w/ rock bit and clean out to PBTD at **5,227'**
17. TIH and land production tubing. ND BOPs and NU tree. Pump off expendable check.
18. RDMO. Get a commingled **Fruitland Coal/Mesa Verde** flow rate and gas analysis.



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MITCHELL 1E - CURRENT WELLBORE SCHEMATIC



Well Name: MITCHELL #1E

API / UWI 3004523645	Surface Legal Location 005-031N-012W-F	Field Name BASIN (FRUITLAND COAL)	Route 0201	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,978.00	Original KB/RT Elevation (ft) 5,992.00	KB-Ground Distance (ft) 14.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole, 5/9/2019 3:17:21 PM
