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MAY 2 1977

Memo to file:
Harvey E. Yates Co., Inc.
Empire (Deep) Unit No. 13

O. C. C.
ARTERIA, OFFICE

30-17 29

3-9-77

Reviewed progress w/Fred Yates. Decision made to try BJ SAF MK III also to run tracer survey to determine lost circulation zone.

- Met w/Roy Vann - discussed problem - he recommended their RA tag survey and set it up for 6:30 P.M.; set up BJ for 9:30 P.M.
- POH w/bit - stood collars back.
- WIH w/DP open ended to 8431' KB.
- RU Vann Tool Co. - Started survey @ 7:00 P.M. - gave up @ 3:45 A.M. results inconclusive - (had called Western Co. @ 11:30 P.M. to drive to location for possible survey).

3-10-77

RD Vann Tool Co. RU Western Co.

- Started in hole w/tracer survey @ 4:30 A.M.
- Completed @ 9:30 A.M. (down 1 hr. for fluid).
- 3 velocity surveys @ 2.1, 3.5 & 7.5 BPM indicate lost circulation 9250-9300' KB.
- Pumped stage #1 - SAF - as follows:
 1. Set bottom of DP @ 9298' KB.
 2. Pumped 50 bbl. salt mud.
 3. Pumped 20 FW bbl. spacer.
 4. Pumped 500 gal. plug.
 5. Pumped 5 bbl. spacer.
 6. Displaced w/125 bbl. mud.
 7. PUH w/10 stands.
 8. Pumped 100 bbl. mud - no circulation-
- Pumped stage No. 2 - with DP @ 9267', no luck, did not have as much pressure increase. Pulled out of hole w/7 singles - pumped 50 bbl. mud - no circulation.
- Discussed results with Fred Yates.
- Ordered 300 sx. "False-set".
- Pumped 1st stage (100 sx. 10# gilsonite, 1/4# celoflake, 1% CaCl) out at 12:15 A.M., 3/11/77.
- Pulled 5 stands - dry - pumped 15 bbl. mud (strong vac) - inst. valve pulled 1st. into dir.
- Worked pipe every 30".
- Pumped 15 bbl. @ 4:55 P.M.

3/11/77

- WIH to 9047' KB.
- Pumped 2nd stage "False set" - 100 sx. 1% CaCl, displaced with 129 bbl. mud - full returns and after approx. 40 bbl.. Some oil on top; down @ 5:30 A.M.
- PUH 10 stands - had to pull 70,000#+ over wt. to move. Last seven stands wet.
- Tied into DP - pumped to clear.