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PRACTURE TREAT	<del></del>	LTIPLE COMPLETE		SECOTING OR ACIDIZING		ABANDONM	BN1*
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### MV & PC OPEN HOLE

#### SIDETRACK WORKOVER PROCEDURES-A

9-5/8" Casing @ <u>109</u> FT.
5½ •Casing • 2646 FT.
"Tubing <u>0 2709</u> FT.  TD <u>02795</u> FT.

4109-1				
LEASE	LUD	WICK LS	WELL NO. 2	
<u>95/8</u> "OD,	36	LB,	CSG.W/ N/A	SX
TOC @ N/A			<del></del>	_
5/2_ "OD,	14	LB,	CSG.W/_ N/A	SX
TOC @ N/A				

# OPEN HOLE WORKOVER - PICTURED CLIFFS

<u>PURPOSE</u>: To recomplete the Pictured Cliffs in a cased and cemented hole.

### **PROCEDURE:**

- Prepare location by blading and installing anchors, if necessary. Install blowdown lines and blow well.
- 2. MIRUSU. Kill tubing with 2% KCl water.
- 3. NDWH. Change wellhead to accommodate 3-1/2" csg. NUBOPE. NU blowdown lines to csg spool.
- 4. Kill annulus with 2% KCl water.
- POOH laying down 1" 1.68# tubing. Visually inspect tubing on trip out. Note: Have fishing tools on location.
- 6. PU 4-3/4" bit and 2-3/8" 4.7# J-55 8rd tubing as a workstring and TIH. Tag and record fill. Clean out to PBTD with water (have N<sub>2</sub> truck standing by if water will not circulate). Drill new hole to \_\_\_\_\_'KB (approximately \_\_\_\_\_ o\_\_\_'deeper). Circulate or blow hole clean. POOH.

Note: PU 6 2-7/8" drill collars if necessary to drill new hole.

- 7. RU and run 3-1/2" 9.2# J-55 NUE casing as a full string as follows:
  - A) Guide shoe and insert float collar on bottom.
  - B) One centralizer with stop ring in the middle of the shoe joint and one centralizer on the joint above. Place one centralizer on the first collar below the wellhead (approx 3 centralizers total).
  - C) Visually inspect body and end areas and drift to 2.992".
  - D) Thread lock the float shoe & first collar above. Use API csg dope on all remaining connections.
- B. Cement the 3-1/2" csg as follows:
  - A) Have cement tested w/field water for pump time & 24 hr compressive strength prior to cementing.
  - B) Use top wiper plug only.
  - C) Precede cement w/5 bbls mud flush.

PICTURED CLIFFS

	9-5/8" Casing @_/09_FT.
	5½ *Casing 3 2646 FT.
×	PBTD @FT.  3-1/2* Casing @FT  TD @ <u>2795</u> FT.

4109-2 LEASE	LUDWICK	LS		WELL NO. 2	
	OD,		LB,	CSG.W/	sx
TYCC 6					

## OPEN HOLE WORKOVER - PICTURED CLIFFS

# PROCEDURE:

- D) Cement with 12.5% gel + 12.5\*/SK gilsonite followed by (12.5 ppg) followed by 80 sx Class B w/4% gel + 12.5 \*/SK gilsonite + 2% CaCl<sub>2</sub> (13.3 ppg, 1.80 ft<sup>3</sup>/SK, 8.30 GAL/SK).
  Follow top plug with 1 bbl acetic acid. If plug does not bump, do not overdisplace. Release pressure if float holds.
- 9. Set slips with full casing weight. NDBOP & cut off 3-1/2" csg. NU tbg spool. PT WH to 2500 psi.
- 10. PU 1.68# 10rd tubing and tally in hole. CO to insert float collar @ \_\_\_\_\_FT. Fill hole and PT casing to 2500 psi. Reverse hole clean and displace with 2% KCl water.

### COMPLETION:

- 11. Spot a sufficient quantity of 7-1/2% DI HCl to cover the perforated interval +200'. POOH.
- 12. RUWL. Run GR-CCl from PBTD to 150' above the highest pay. Perforate the Pictured Cliffs under lubricator as directed by the Geological Department from the top interval down. Use Schlumberger 2-1/8" Enerjet semi-expendable tubing guns loaded 2 JSPF @ 0° phasing w/13.5 qm charges.
- 13. Acidize dn csg w/20 gal per perf of 15% wgtd HCl 600# NaCl/1000 gal & 1.5 l.l S.G. RCN ball sealers per perforation. Displace @ max rate with MSP less than 2500 psi. RIH past perforations w/junk basket. Blow hole dry with nitrogen and POOH.
- 14. Frac Pictured Cliffs with 70 quality foam & 20/40 sand as per attached schedule. Call Denver to confirm. Flush to 2 bbls shy of top perf. SWI for 2 hrs. FTCU thru 1/4" tapped bull plug.
- 15. TlH with new 1-1/4" 2.40# J-55 10rd production string as follows:

1 jt 1-1/4" tbg 1 SN with exp plug Bal of 1-1/4" tbg

- 16. Tag fill & record amount. CO to PBTD  $w/N_2$ . PU & set btm of tbg within 20' of lowest perforation. Land tbg & NUWH.
- 17. Kick well around with N2 and FTCU.
- 18. RDMOSU. SWI for AOF.

Feter My Mueller
Production Department