

**SG Interests I, Ltd.**  
**Pot Mesa #2 WDW**  
**SWNE Sec. 10, T20N, R06W**

Abandon Cliffhouse, Convert to Menefee WDW

February, 2006  
R.J. Sagle



TD: 3225'  
PBDT: 2241'  
Perforations: Cliffhouse 1996-2133' (gross)  
Menefee 2242-3030' (gross)  
Rathole: N/A  
TBG: 60 jts 2 3/8" plastic coated tbg landed in PKR @ 1940'.  
Rods/Pump: N/A

Current Production: 0  
Expected Production: 0

Initial Completion: 11/85 perf and acidize Menefee

Last Workover: 3/86 abandon Menefee, complete in Cliffhouse as WDW

**NOTE:** Gov't reports and well bore diagram in well file show 5 1/2", 15.5# csg.  
Drilling reports and tally show 5 1/2", 14# csg.

Procedure:

**Final Squeeze Cement Slurry and Final Fracture Design to be Determined**

**HOLD SAFETY MEETING EVERY MORNING !!**

- 1) Notify NMOCD/BLM. Build 15' x 15' x 5' deep lined workover pit on location. Test anchors.
- 2) MIRUSU. Check tbg, csg, and bradenhead pressure. Blow well down. Kill well if necessary. NDWH. NUBOP.
- 3) Release PKR by setting down and rotating to right. If PKR will not release, the shear ring can be sheared with straight pull of 50,000#. NOTE: PKR WAS SET IN 13,000# TENSION.
- 4) POOH w/ plastic coated tbg laying down same. Inspect PKR and send to Baker for possible re-dress and conversion for 2 7/8" tbg..
- 5) Tally/ P/U and RIH w/ 4 3/4" bit and scraper on 2 7/8" work string. Tag sand fill or cmt plug. If necessary, reverse out sand fill to allow enough room to set PKR below perms @ 2133' to test cement plug. TOOH

*HW*

- 6) TIH w/ full bore PKR and set below Cliffhouse perfs. Test below PKR to 1000#. Pull above perfs and test backside to 1000#. Establish rate into Cliffhouse perfs.
- 7) Squeeze w/ 150 sx 50/50 Poz + 3% gel + .2% versa-set + 2% cacl. Mixed @ 13.0 PPG. Yield = 1.45 cu ft/sx. WOC. NOTE: THIS WILL LIKELY BE A LOW-PRESSURE SQUEEZE WITH RATES LESS THAN 2 BPM AND MAX PRESSURE LIMIT OF 750#.
- 8) POOH w/ PKR. RIH w/ bit, six to ten 3 1/2" DC's, and 2 7/8" tbg. Drill out squeeze. TOOH. Test squeeze to 500# for 30 min. Record on chart. Re-squeeze if necessary. Revise cement slurry if needed.
- 9) TIH w/ bit, DC's and tbg as above. Drill out cement plug above Menefee perfs. RIH to at least 3100'. TOOH.
- 10) TIH w/ bit and scraper to at least 3100'. Roll hole with 1% KCL water. If hole will hold fluid column, spot 100 gals 7 1/2@ HCL @ 2704'. TOOH.
- 11) Perforate Menefee w/ 3 1/8" casing gun, 2 SPF, 120 degree spacing, TOP DOWN as follows: **(verify perfs with SG, 2658-75 is shown as 2658-75 on log, but written as 2658-65)**

2614-32'	(18')
2658-75'	(17')
2692-2704'	(12')
Total	47', 94 holes

- 12) TIH w/ SPIT Tool with 30' spacing, collar locator, and fluid control valve (consider using PKR and RBP in tandem). Acide in 7 settings (will not acidize existing perfs @ 3026-30'). Acidize with 1500 gals 15% DI HCL with iron control. TOOH.
- 13) TIH w/ full bore PKR on 2 7/8" work string. Set PKR @ 2190'.
- 14) Frac well down tbg as follows with cross-linked gel(in 1% KCL water) and 20/40 Brady sand.

Rate: 20 BPM  
 Max Pressure: 3200 #

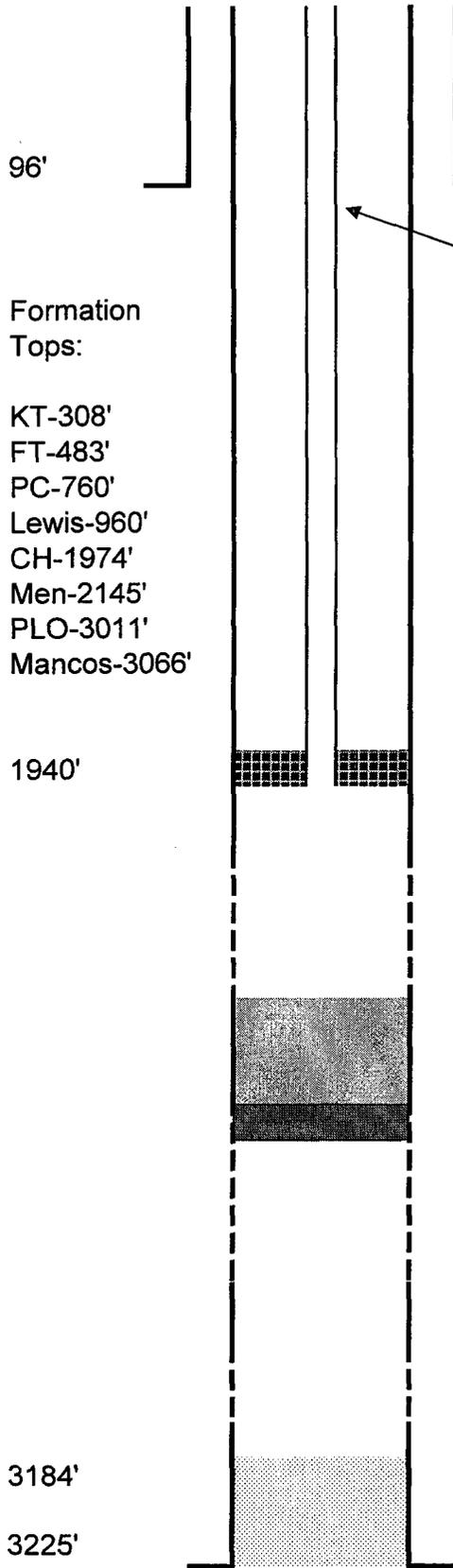
<u>STAGE</u>	<u>VOL, gals</u>	<u># Sand</u>	<u>Cum # Sand</u>
Pad	20,000	0	0
1 PPG	20,000	20,000	20,000
2 PPG	30,000	60,000	80,000
3 PPG	20,000	60,000	140,000
Flush	585	0	140,000

Job Totals: 90,585 gals + 140,000# 20/40 sand (7 tanks)  
 Flush to top perf and shut down. Record ISIP, 5, 10 and 15 min ISIP.

**\*\*\*NOTE: shut down momentarily on pad for ISIP.\*\*\***

- 15) R/D service co. Flow back through ½" choke. Kill well if necessary. TOOH w/ PKR.
- 16) TIH w/ TBG and notched collar. C/O to PBTD w/ air/foam or water. TOOH and LD work string.
- 17) Tally, P/U and TIH w/ re-dressed or new retrievable injection PKR on 2 7/8" tbg. Run F-nipple 1 jt above PKR. Use pup jts to space-out PKR for setting @ 2190'.
- 18) Circulate PKR fluid. Set PKR. Test back side to 500#.
- 19) Land donut. NDBOP and NUWH.
- 20) Establish injection rate down tbg. Shut-in tbg. Test backside to 500# for 30 min. Record on chart and witness. RDMOSU.

**SG Interests I, Ltd**  
**Pot Mesa #2 SWD MV**  
**Current Wellbore Drawing (02/02/06)**



KB = 08'

8 5/8", 23# J55  
 Circ cement

60 jts 2 3/8" plastic coated tbg  
 Landed in PKR @ 1940'  
 SN 1 jt up @ 1909'  
 Landed in "slip-type" well head  
 13,000# tension

Formation  
 Tops:

KT-308'  
 FT-483'  
 PC-760'  
 Lewis-960'  
 CH-1974'  
 Men-2145'  
 PLO-3011'  
 Mancos-3066'

Model A-D1 Packer  
 (50,000# shear ring)  
 Set @ 1940'

1940'

Cliff house perfs: 1996-2133' (gross interval)  
 (see log for perfs)

Cleaned out frac sand to 2150'

Set 24 sx cmt plug @ 2179-2309'  
 Tagged cement plug @ 2241'

Menefee Perfs: 2242-3030' (gross interval)  
 (see log for perfs)

3184'

PBTD

3225'

5 1/2", 14# J55 CSG  
 Cemented to surface

(Gov't rpts say 15.5#??)