Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMENT BUREAU OF	LAND MANAC	NTER	NT	tions on de)	Bud Expl 6. LEASE LC-02	PERIGNATION 8793-C	No. 1004-0136	: 5F
1a. TYPE OF WORK DR b. TYPE OF WELL	N FOR PERMIT	DEEPEN (X	PLUG BAC	к 🗆		ORBEMENT NA		
2. NAME OF OPERATOR	WELL OTHER						C Fede	-	
Phillips Petroleum Company					1991	9. WELL NO.			
3. ADDREAS OF OPERATOR							6		
4001 Penbroo	ok Street, Oc	lessa, Tex	as	79762 U. C. D	· .	10. FIELD AND POOL, OR WILDCAT			
	Report location clearly and	in accordance wit	th any i	State requirements.	** <u>*</u>	Gb/Jackson-SR-Q-G-SA			
At murface Unit O, 660' FSL & 1980' FEL At proposed prod. sone						11. SSC., T., B., M., OR BLE. AND SURVEY OR AREA			
Unit 0, 660' FSL & 1980' FEL						23,	17-S,	29-E	
	AND DIRECTION FROM NEAT		T OFFIC	3*			T OR PARIAH		
	s West of Loco	Hills				Eddy		NM	
10. DISTANCE FROM PROPOSED [®] LOCATION TO MEARES PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)660 ¹						of ACRES ASSIGNED HIS WELL 40			
18. DISTANCE FROM PROPOSED LOCATION [®] TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ±900'SE #14C			19. PROPOSED DEPTH 20. BOTA		20. ROTAR	BY OR CABLE TOOLS			
			3386'		I	Rotary			
21. BLEVATIONS (Show whether DF, RT, GR, etc.)						22. APPROX. DATE WORE WILL START*			
3578' DF						03-18-91			
23. PROPOSED CASING AND CEMENTING PROGRAM									
BILL OF HOLE	BIES OF CARING	WEIGHT PER FOOT		SETTING DEPTH	1	QUANTITY OF CEMENT			
9-7/8"	8-5/8"	28# 366'		366'	100 sx				

2385'

3255'

AMENDED PROCEDURE.

7-7/8"

6-1/4"

71

5-1/2"

Please see attached sheets for detailed procedure.

20#

14#

-over-

100 sx

35 sx

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BIGNED ALY Mupley L. M	Sanders Reg. & Proration Supv.	DATE 03-20-91
(This space for Federal or State office use)		
APPROVED BY	TITLE	BATE 3/29/91

*See Instructions On Reverse Side

BURCH "C" FEDERAL NO. 6 RECOMMENDED PROCEDURE

NOTE: 1. This is a <u>No Category</u> well. 2. Notify <u>NMOCD and BLM 24 hours</u> before commencing work.

STAGE I:

- MI and RU DDU. Pull rods and pump. Install BOP. COOH with 2-3/8" production tbg. Tag TD to check for fill. If necessary, clean out to +3326'.
- 2. RU to perforate and set CIBP. GIH with 4" csg gun, using 1/2" GSC charges, 4 spf, and perforate 5-1/2" casing at <u>*2600'</u>. COOH with perforating gun. GBIH with CIBP & set at <u>+2700'</u>. COOH.
- 3. GIH w/ 5-1/2" RTTS-type packer on 2-3/8" workstring. Set RTTS @ ±2650' and test CIBP to 500 psi. Reset RTTS at ±2550'. Establish pump in rate through perforations. Circulate, if possible, to clean up 5-1/2" x 7" annulus.

Note: If circulation is not possible, contact Steve Jones (x1549) or Kyle Hart (x1285) for further instructions. If necessary, individual block squeezes may be attempted as follows:

- Reset RTTS at 2450' and squeeze open perferations at 2600' with 25 sxs Class "C" with 2% CaCl₂. (Note: Approximate pump time is 2 hours.) Max pressure 1000 psi.
- ii. Reset RTTS @ ±2460'. RU ________ to perforate through tubing with 1-11/16" Hollow-Carrier gun, 2 spf, @ 2475'. Establish pump in rate through perforations. Circulate, if possible, to clean up 5-1/2" x 7" annulus. If circulation is possible, perform step 4 with retainer set at ±2425'.
- iii. If unable to circulate reset RTTS at 2350'. Squeeze perforations at 2475' with 25 sxs Class "C" with 2% CaCl₂. (Note: Approximate pump time is 2 hours.) Max pressure 1000 psi. Go to step 5.

- 4. COOH with RTTS & workstring. GIH with 5-1/2" retainer on 2-3/8" workstring. Set retainer @ ±2550'. MI & RU Cementer to perform squeeze. Test all surface lines to 2000 psig. Pump 50 sxs of Class "C" with 2% CaCl₂. (Note: Approximate pump time is 2 hours.) Do not exceed 1000 psig. COOH with workstring to ±2300'. Reverse out excess cement. COOH and SI for 24 hours.
- 5. PU 6-1/4" bit & DC's and drill out to top of 5-1/2" casing at 2339'. COOH and PU 4-3/4" bit and drill out to <u>+</u>3386' (60' deeper than current TD) with produced water. Circulate hole clean. COOH & LD bit & DC's.
- 6. MI & RU ________ to perforate the following zones through the 5-1/2" & 7" csg with a 4" perforating gun and 1/2" GSC charges, 1 JSPF, at the following depths (Note: Correlate perforating depths to Lane's GR-Neutron log dated 6/22/56):

<u>San Andres</u> 3040'-3044' (5 shots).

<u>Jackson</u> 2857'-2880' (24 shots), 2820'-2830' (11 shots), 2804'-2810' (7 shots), 2798'-2800' (3 shots), 2773'-2787' (15 shots), 2760'-2764' (5 shots), 2752'-2756' (5 shots), 2740'-2746' (7 shots), 2728'-2732' (5 shots).

Premier
2508', 2506', 2504', 2502', 2500', 2498'.

Metex
2414', 2410', 2388', 2384', 2380', 2374', 2372', 2342'.

Loco Hills 2274', 2272', 2270', 2268', 2266', 2264', 2262', 2260'.

TOTAL SHOTS = 109 shots

- 7. GIH with 5-1/2" RTTS-type pkr on ±900' of 2-7/8", 6.5#/ft, EUE 8rd N-80 tbg & ±2250' 3-1/2", 9.3 lb/ft, EUE 8rd N-80 tbg. Test tbg to 5000 psi while GIH. Set packer @ ±3150'.
- 8. A cidize open hole Keely zone at 3255'-3386' with 6000 gals Pentol 200 (20% NEFe HCl) in four stages using 1200 lb of rock salt in 1200 gals 9 ppg brine as a blocking agent as follows:
 - a. Pressure test lines to 3500 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
 - b. Pump 1500 gals Pentol 200.
 - c. Pump 400 gals blocking agent.
 - d. Repeat b and c twice.
 - e. Pump 1500 gals Pentol 200.
 - f. Flush to bottom of open hole interval with lease produced water.

Maximum Treating Pressure = 3000 psi Maximum Treating Rate = 6 BPM

- 9. Shut in four hours. Swab back load from Keely.
- 10. Frac treat Keely open hole zone at 3255'--3386' with 21,000 gals polyemulsion (2/3 lease crude and 1/3 30 lb gelled 2% KCl water with non-ionic emulsifier) carrying 63,500 lbs 20/40 mesh Vulcan Texsan sand, as follows:

Note:

- * Review Attachment I on safety precautions for polyemulsion treatments.
- * Nipple up wellhead so that well can be flowed back within 30 seconds of pump shut down.
- * Install flow meter so that a rate of 5-10 gals/min can be monitored.
- * Leave pressure connected to the van so that the fracture pressure can be monitored.
- * Ensure that choke is completely closed before start of flowback.
- * LEASE CRUDE MUST BE IN FRAC TANKS OR STOCK TANK BARRELS AT ATMOSPHERIC PRESSURE AT LEAST 24 HOURS PRIOR TO JOB.
- a. Test all lines to 5000 psi. Install pressure relief valve on treating line and set it to relieve at 5000 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
- b. Pump 7500 gals polyemulsion as pad.
- c. Pump 2000 gals with 2 ppg of 20/40 mesh sand.
- d. Pump 2000 gals with 3 ppg of 20/40 mesh sand.
- e. Pump 2500 gals with 4 ppg of 20/40 mesh sand.
- f. Pump 2500 gals with 5 ppg of 20/40 mesh sand.
- g. Pump 2500 gals with 6 ppg of 20/40 mesh sand.
- h. Pump 2000 gals with 8 ppg of 20/40 mesh sand.
- i. Flush to 3150' (RTTS depth) with 1/4 polyemulsion and 3/4 gelled water. DO NOT OVERFLUSH.
- j. SI, record ISIP, then flow back within 30 seconds of pump shutdown. Monitor for closure, and continue to flow at a maximum rate of 10 gal/min for 30 minutes after fracture closure. After closure, flow at a maximum rate of 1/2 bbl/min until well dies.

Max. Treating Pressure = 4500 psi Max. Treating Rate = 15 BPM

Minimum Inventory to Have on Location Prior to Treatment:

- * 76,500 lbs Vulcan Texsan 20/40 sand.
- * Frac tanks with 16,380 gals (390 bbls) lease crude.
- * Frac tanks with 8,778 gals (209 bbls) gelled water.
- * Firefighting equipment, sample bottles, and Fann 35 viscometer to be supplied by service company.
- 11. COOH with RTTS & workstring. LD RTTS & GBIH with workstring and CO to TD. COOH & LD workstring.

12. pU 2-3/8" production string & packer & GIH to $\pm 3200'$. Set packer. Remove BOP and run rods and pump. Place well on production & report daily tests on DDR.

Zone will be pumped approximately one week before proceeding with next step.

STAGE II:

- 13. Pull rods & pump. NU BOP & COOH with production string & packer. PU 3-1/2" x 2-7/8" tapered workstring and GIH with 5-1/2" RBP and RTTS. Test tubing in hole to 5000 psi. Set RBP at ±3130'. Test RBP to 1000 psi. Reset RTTS at ±2940'.
- 14. Acidize new San Andres perfs at 3040'-3044' and present SA perfs at 3055'-3082' in 3 stages with 1800 gals Pentol 200 (20% NEFe HCl) using 350 lb rock salt in 350 gals 9 ppg brine as a blocking agent, as follows:
 - a. Pressure test lines to 3500 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
 - b. Pump 600 gals Pentol 200.
 - c. Pump 175 gals blocking agent.
 - d. Repeat steps b and c.
 - e. Pump 600 gals Pentol 200.

Maximum Treating Pressure = 3000 psi Maximum Treating Rate = 5 BPM

- 15. Flush to 3082' with produced water. Shut in four hours. Swab back load from San Andres perfs.
- 16. Frac treat San Andres with 17,000 gallons polyemulsion (2/3 lease crude and 1/3 30# gelled 2% KCL water with nonionic emulsifier) carrying 44,500 lbs. 16/30 Vulcan Texsan sand as follows:

Note: Review the six Notes listed in step 10, page 3.

- a. Test all lines to 5000 psi. Install pressure relief valve on treating line and set it to relieve at 5000 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
- b. Pump 6000 gals polyemulsion as pad.
- c. Pump 2000 gals with 2 ppg of 16/30 mesh sand.
- d. Pump 2000 gals with 3 ppg of 16/30 mesh sand.
- e. Pump 2500 gals with 4 ppg of 16/30 mesh sand.
- f. Pump 2500 gals with 5 ppg of 16/30 mesh sand.
- g. Pump 2000 gals with 6 ppg of 16/30 mesh sand.
- h. Flush to 2940' (RTTS depth) with 1/4 polyemulsion and 3/4 gelled water. DO NOT OVERFLUSH.

> i. SI, record ISIP, then flow back within 30 seconds of pump shutdown. Monitor for closure, and continue to flow at a maximum rate of 10 gal/min for 30 minutes after fracture closure. After closure, flow at a maximum rate of 1/2 bbl/min until well dies.

Max. Treating Pressure = 4500 psi Max. Treating Rate = 15 BPM

Minimum Inventory to Have on Location Prior to Treatment:

- * 53,400 lbs Vulcan Texsan 16/30 sand.
- * Frac tanks with 12,685 gals (302 bbls) lease crude.
- * Frac tanks with 7,014 gals (167 bbls) gelled water.
- * Firefighting equipment, sample bottles, and Fann 35 viscometer to be supplied by service company.
- 17. Release RTTS & COOH. LD packer & GBIH with workstring. Clean out to top of RBP. COOH & LD workstring.
- 18. PU 2-3/8" production string & packer & GIH. Set packer @ ±3000'. Remove BOP and run rods and pump. Place well on production & report daily tests on DDR.

Zone will be pumped approximately one week before proceeding with next step.

STAGE III:

- 19. Pull rods & pump. NU BOP & COOH laying down production equipment. PU tapered workstring & GIH with RTTS & RBP setting tool. Test tubing in hole to 3500 psi. Reset RBP at <u>+</u>2930'. Test RBP to 1000 psi. Reset RTTS at +2675'.
- 20. Acidize Jackson perfs at 2728'-2880' with 8000 gals Pentol 200 (20% NEFe HCl), diverting with 100 1.3 sg RCN ball sealers, as follows:
 - a. Pressure test lines to 3500 psi. Load annulus, if possible, and monitor casing pressure throughout job for any indication of communication.
 - b. Establish pump-in rate with produced water. If 5 BPM rate cannot be established, release pkr and spot 200 gals 15% HCl with fines suspension agents & stabilizers across perfs. Reset pkr and bullhead acid to break down perfs.
 - c. Pump 1600 gals Pentol 200 (20% NEFe HCl).
 - d. Pump 4800 gals Pentol 200 (20% NEFe HCl), dropping 100 balls spaced evenly.
 - e. Pump 1600 gals Pentol 200 (20% NEFe HCl).
 - f. Flush to 2880' with produced water.

Maximum Treating Pressure = 3000 psi Maximum Treating Rate = 5 BPM

- 21. Shut in four hours. Release pkr & knock ball sealers off perfs. Reset pkr & swab back load from Jackson perfs. COOH & LD workstring. (Jackson will not be frac'd.)
- 22. PU 2-3/8" production string & packer. Set packer @ ±2675'. Remove BOP and run rods and pump. Place well on production & report daily tests on DDR.

Zone will be pumped approximately one week before proceeding with next step.

STAGE IV:

- 23. Pull rods & pump. NU BOP & COOH with production tubing & packer. PU 2-7/8" x 3-1/2" tapered workstring & GIH with RTTS. Test tubing in hole to 4000 psi. Reset RBP at ±2560'. Test RBP to 1000 psi. Reset RTTS at +2450'.
- 24. Acidize Premier perfs at 2498'-2508' with 500 gals 7-1/2% NEFe HCl acid containing fines suspension agents and clay stabilizers, diverting with eight 1.3 sg RCN ball sealers, as follows:
 - a. Pressure test lines to 4000 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
 - b. Establish pump-in rate with produced water. If rate of 5 BPM cannot be established, release pkr and spot 200 gals 15% HCl with fines suspension agents and stabilizers across perfs. Reset pkr and bullhead acid to break down perfs.
 - c. Pump 100 gals 7-1/2% NEFe HCl acid.
 - d. Pump 300 gals 7-1/2% NEFe HCl acid, dropping 8 balls spaced evenly.
 - e. Pump 100 gals 7-1/2% NEFe HCl acid.
 - f. Flush to 2508' with produced water.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 5 BPM

- 25. Release pkr. Knock ball sealers from perfs at 2498'-2508'. Reset pkr at +2450'. Swab back load from Premier perfs.
- 26. Frac treat Premier perfs at 2498'-2508' with 10,000 gals polyemulsion (2/3 lease crude and 1/3 30 lb gelled 2% KCl water with non-ionic emulsifier) carrying 26,000 lbs 16/30 mesh Vulcan Texsan sand, as follows:

Note: Review the six Notes listed in step 10, page 3.

- a. Test all lines to 4000 psi. Install pressure relief valve on treating line and set it to relieve at 4000 psi. Load annulus, if possible, and monitor casing pressure during treatment for any indication of communication.
- b. Pump 3500 gals polyemulsion as pad.
- c. Pump 1000 gals with 2 ppg of 16/30 mesh sand.
- d. Pump 1500 gals with 3 ppg of 16/30 mesh sand.
- e. Pump 1500 gals with 4 ppg of 16/30 mesh sand.

```
Burch "C" Fed. #6
Recommended Procedure
Page 7
```

- f. Pump 1500 gals with 5 ppg of 16/30 mesh sand.
- g. Pump 1000 gals with 6 ppg of 16/30 mesh sand.
- h. Flush to 2450' (RTTS depth) with 1/4 polyemulsion and 3/4 gelled water. DO NOT OVERFLUSH.
- SI, record ISIP, then flow back within 30 seconds of pump shutdown. Monitor for closure, and continue to flow at a maximum rate of 10 gal/min for 30 minutes after fracture closure. After closure, flow at a maximum rate of 1/2 bbl/min until well dies.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 15 BPM

Minimum Inventory to Have on Location Prior to Treatment:

- * 31,500 lbs Vulcan Texsan 16/30 sand.
- * Frac tanks with 7,896 gals (188 bbls) lease crude.
- * Frac tanks with 4,494 gals (107 bbls) gelled water.
- * Firefighting equipment, sample bottles, and Fann 35 viscometer to be supplied by service company.
- 27. Release RTTS & COOH. LD pkr & GBIH with workstring. Clean out to top of RBP. COOH & LD workstring.
- 28. PU 2-3/8" production string & packer. Set packer @ ±2450'. Remove BOP and run rods and pump. Place well on production & report daily tests on DDR.

Zone will be pumped approximately one week before proceeding with next step.

STAGE V:

- 29. Pull rods & pump. NU BOP & COOH. Lay down packer. GBIH with 5-1/2" RTTS & RBP setting tool on production tubing. Reset RBP @ ±2450' and test to 500 psi. COOH laying down production tubing & RTTS. PU 3-1/2" workstring workstring & GIH with 7" RTTS. Test tubing in hole to 4000 psi. Set RTTS at ±2290'.
- 30. Acidize Metex perfs at 2342'-2414' with 1250 gals 7-1/2% NEFe HCl acid containing fines suspension agents and clay stabilizers. Divert with ten 1.3 sg RCN ball sealers, as follows:
 - a. Pressure test lines to 4000 psi. Load annulus, if possible, and monitor casing pressure throughout treatment for any indication of communication.
 - b. Establish pump-in rate with produced water. If rate of 5 BPM cannot be established, release pkr and spot 200 gals 15% HCl with fines suspension agents and stabilizers across perfs. Reset pkr and bullhead acid to break down perfs.
 - c. Pump 250 gals 7-1/2% NEFe HCl acid.
 - d. Pump 750 gals 7-1/2% NEFe HCl acid, dropping 10 balls spaced evenly.
 - e. Pump 250 gals 7-1/2% NEFe HCl acid.
 - f. Flush to 2414' with produced water.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 5 BPM

- 31. Surge ball sealers from perfs at 2342'-2414'. Swab back load from Metex perfs.
- 32. Frac treat Metex perfs at 2342'-2414' with 20,000 gals polyemulsion (2/3 lease crude and 1/3 30 lb gelled 2% KCl water with non-ionic emulsifier) carrying 67,000 lbs 16/30 mesh Vulcan Texsan sand, as follows:

Note: Review the six Notes listed in step 10, page 3.

- a. Test all lines to 4000 psi. Install pressure relief value on treating line and set it to relieve at 4000 psi. Load annulus, if possible, and monitor casing pressure throughout job for any indication of communication.
- b. Pump 6500 gals polyemulsion as pad.
- c. Pump 1000 gals with 2 ppg of 16/30 mesh sand.
- d. Pump 2000 gals with 3 ppg of 16/30 mesh sand.
- e. Pump 2500 gals with 4 ppg of 16/30 mesh sand.
- f. Pump 3000 gals with 5 ppg of 16/30 mesh sand.
- g. Pump 3000 gals with 6 ppg of 16/30 mesh sand.
- h. Pump 2000 gals with 8 ppg of 16/30 mesh sand.
- i. Flush to 2290' (RTTS depth) with 1/4 polyemulsion and 3/4 gelled water. DO NOT OVERFLUSH.
- j. SI, record ISIP, then flow back within 30 seconds of pump shutdown. Monitor for closure, and continue to flow at a maximum rate of 10 gal/min for 30 minutes after fracture closure. After closure, flow at a maximum rate of 1/2 bbl/min until well dies.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 15 BPM

Minimum Inventory to Have on Location Prior to Treatment:

- * 80,500 lbs Vulcan Texsan 16/30 sand.
- * Frac tanks with 15,582 gals (371 bbls) lease crude.
- * Frac tanks with 8184 gals (195 bbls) gelled water.
- * Firefighting equipment, sample bottles, and Fann 35 viscometer to be supplied by service company.
- 33. Release RTTS & COOH. LD RTTS & GBIH with workstring. Clean out to top of RBP. COOH. PU RBP setting tool & GBIH. Retrieve RBP & COOH. Note: Metex will not be tested individually at this time.

STAGE VI:

- 34. PU 3-1/2" workstring & GIH with 7" RBP & RTTS. Test tubing in hole to 4000 psi. Set RBP at ±2300'. Test RBP to 500 psi. Reset RTTS at ±2200'.
- 35. Acidize Loco Hills perfs at 2260'-2274' with 500 gals 7-1/2% NEFe HCl acid containing fines suspension agents and clay stabilizers, diverting with ten 1.3 sg RCN ball sealers, as follows:

```
Burch "C" Fed. #6
Recommended Procedure
Page 9
```

- a. Pressure test lines to 4000 psi. Load annulus & pressure to 500 psi. Monitor casing pressure throughout treatment for any indication of communication.
- b. Establish pump-in rate with produced water. If rate of 5 BPM cannot be established, release pkr and spot 200 gals 15% HCl with fines suspension agents and stabilizers across perfs. Reset pkr @ 2200' and bullhead acid to break down perfs.
- c. Pump 100 gals 7-1/2% NEFe HCl acid.
- d. Pump 300 gals 7-1/2% NEFe HCl acid, dropping ten balls spaced evenly.
- e. Pump 100 gals 7-1/2% NEFe HCl acid.
- f. Flush to 2274' with produced water.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 5 BPM

- 36. Release pkr. Knock ball sealers from perfs at 2260'-2274'. Reset pkr at +2160'. Swab back load from Loco Hills perfs.
- 37. Frac treat Loco Hills perfs at 2260'-2274' with 13,500 gals polyemulsion (2/3 lease crude and 1/3 30 lb gelled 2% KCl water with non-ionic emulsifier), carrying 37,000 lbs 16/30 mesh Vulcan Texsan sand, as follows:

Note: Review the six Notes listed in step 10, page 3.

- a. Test all lines to 4000 psi. Install pressure relief value on treating line and set it to relieve at 4000 psi. Pressure annulus to 500 psi with produced water and maintain during treatment for any indication of communication.
- b. Pump 4500 gals polyemulsion as pad.
- c. Pump 500 gals with 1 ppg of 16/30 mesh sand.
- d. Pump 1000 gals with 2 ppg of 16/30 mesh sand.
- e. Pump 1500 gals with 3 ppg of 16/30 mesh sand.
- f. Pump 2000 gals with 4 ppg of 16/30 mesh sand.
- g. Pump 2000 gals with 5 ppg of 16/30 mesh sand.
- h. Pump 2000 gals with 6 ppg of 16/30 mesh sand.
- i. Flush to 2160' (RTTS depth) with 1/4 polyemulsion and 3/4 gelled water. DO NOT OVERFLUSH.
- j. SI, record ISIP, then flow back within 30 seconds of pump shutdown. Monitor for closure, and continue to flow at a maximum rate of 1/2 bbl/min until well dies.

Maximum Treating Pressure = 3500 psi Maximum Treating Rate = 10 BPM

Minimum Inventory to Have on Location Prior to Treatment:

- * 44,500 lbs Vulcan Texsan 16/30 sand.
- * Frac tanks with 10,206 gals (243 bbls) lease crude.
- * Frac tanks with 5,550 gals (132 bbls) gelled water.
- * Firefighting equipment, sample bottles, and Fann 35 viscometer to be supplied by service company.

- 38. Release RTTS & COOH. LD packer & GBIH with workstring. Clean out to top of RBP. COOH with workstring.
- 39. GIH with 2-3/8" production string. Remove BOP and run rods and pump. Place well on production & report daily tests on DDR.

RKB			AreaNorth Date: Ma					
CHFC				rch 11, 1991				
GL@ 3578'			Subarea Loco Hills					
GLE <u>3</u>	ste <u>3578</u>		Lease & Well No. Burch "C" Fed. #6 NOT A CATEGORY WELL					
-1-1			Legal Description 660' FSL & 1980' FEL, Section					
:		: TOC @ Surface	T-17-S & R-29-E, Eddy Count	y, New Mexico				
:		:	Field Grayburg-Jackson	· · · · · · · · · · · · · · · · · · ·				
:		:	Status Shut-in (at least since 1987)					
:			Tubing: 2-3/8", 4.7# J-55 @ 3297'					
xx		XX 8-5/8" OD @ 366'	Packer: <u>Guiberson G-2 @ 3031'</u>					
		28 #/f t	Tubing Head: Not shown in records					
			Stimulation Nichows					
:			Stimulation History: <u>Interval</u> <u>Date</u> <u>Type</u> <u>Gallons</u> <u>Lbs. Sd</u> <u>M</u>	P ISIP IR				
		1.		? ? ?				
				<u> </u>				
				00 1450 2.2 00 2100 32				
		5.	<u>5055 5002 10/01 208 500 vi</u>	ac Vac ?				
			Hole/Casing Condition: As shown. Drilled 194.	3. Deepened				
:			in 1956. Salvaged top 2339' of 5-1/2" in 1964					
:	:							
:	:		Workover Proposal: Squeeze cement behind the	5-1/2" csg				
:	:		Add additional Keely and San Andres pay, along	with new				
:	:		Loco Hills, Metex and Premier pay. Test and the	reat each				
:	:		zone_individually	· · · · · · · · · · · · · · · · · · ·				
:	:							
:	:		Recommended Procedure: See Attached.					
:								
			5-1/2"					
			•					
			<u>14#/ft J-55</u> 7", 20 <u>#</u> H-40 ID 5.012" 6.456"					
:			Drift 4.887" 6.331"					
:		5-1/2" top @ 2339'						
		(Salvaged in 1964)						
		(Salvaged In 1904)	Burst 4,000 psi 2,550 psi					
xx		7" OD @ 2385'	Tension105,000 lbs 117,000 lbs					
	1	20 # /ft, H-40 ST&C	2-3/8" 3-1/2"	0 7/0"				
		TOC @ 550' (Estimated)		2-7/8"				
		100 e 550 (Boermacea)	<u>4.7<i>≢, J</i>-55</u> <u>9.3<i>≢,</i> N-80</u> ID 1.995" 2.992"	6.5#, N-80				
:			Drift 1.991" 2.867"	2.441"				
:=	=:	SA Perfs: 3055'-3063',		2.347"				
	 Ŧ:	3075'-3082' (4 jspf)		3.668" 9.710 pai				
:	Ι:	55,5 5001 (4 JBP1)		9,710 psi				
:				8,270 psi				
			Tension 47,700 lbs 133,700 lbs	93,500 lbs				
xx		5-1/2" OD @ 3255'						
:		14#/ft, J-55 ST&C						
:		TOC @ 2620' (T. Survey)						
:		(
:								
xxx	x	Open Hole to 3326'						

.

ş

,

.