ederai 1 4184 3411 TD. Dolomite. Preparing to run Lynes packars. (Cactis) Finished drilling 8" hole to 3411 n 7 Hivere dolomite at 10:30 a m. MST 4-28-61 During the drilling 6" hole to 3411 n 7 Hivere mas located at 3409, that increased qli entering the bore to 13-12 gal. per hour, as determined by bailing test. The top df Seven Rivers was dri'ied at 3408 (r 210), 39' low to Tennesee - Loomis USA "A" #2, mast offset. The inter al 3408-1410 was tight and barren. A 14-Inch run was made, drilling to 3411 or slightly below. Sample showed 100% fluorescence. About 30% of the sample showed pinpoint porosity. A trace of vug-type oprosity was found. Took a 2 hr. bailing test, recovering 9 gal. clean oil in 2 hrs. Gravity of oil 27.4° API - same as gravity of oil recovered before drilling feven Rivers section. Assumed that oil came from Yates, and no fluid was entering the well bore from the Seven Rivers. Field information findicates that the water oil contact may be as high as 3413 (r205) or as low as 3422 (r196). Made additional bailing tests, as follows: From. To Callons 0.1 Gallons 0.1 Gallons 0.1 4-6-61 Perry Federal 4-29-61 Perry Federai Preparing to build lucation. Location: 2310' from the wouth line and 990' from the west line 'f section 23, Township 20 South, Range 33 East, Lea County, New Mexico. Ground leves elevation 3615 2'. 4-7-61 Perry Federal will finish preparing location today. Preparing to move in Cactus Delg. Co combination rotary and cable tool rig. 4-8-61 Perry Federal 1 4184 Location complete. Preparing to move in rig. 4-9-61 Perry Federal 1 4184 Rigging up Cattus Drilling Company combination rig. Will spud today. 1-10-61 Perry Federal 
 Time
 BE

 From
 To
 Gallong Oil

 1:15 p.m.
 4:00 p.m.
 8:35

 4:00 p.m.
 7:00 p.m.
 8:35

 7:00 p.m.
 9.19
 Hoved in tubing and Lynes packets, to lacidize and test the Seven Rivers.
 Tereformed and shale. (Gactus) I 4184 675 Drilling, sand and shale. (Gactus) Finished rigging up Cactus Drig. Co combination rig. Mixed 45 sx. gel, 3 sx. lime. Spudded li' hole at 3:00 p.m., 4-9-61. 1/2° off at GoU'. I day. day. 9-61 9 Federal 1 4184 3411 TD. Proparing to re-acidize with 2500 gal. acid. (Cactus) 29th, bailed 57 gal. oil. Ran Lynam packers on 108 joints of 2-36" DURUE 4.70 9/ft. J-55 tubing. Filled Lynam squipment with only smough water to inflate elements. Swung tubing to set the bottom packar 3398-3402, and the top packer 3366-3370, with the bottom of the string at 3409. Pumped 250 gal. 13% Dowell ME acid into the tubing; finished loading tubing with diasel oil. Pressured tubing to 500 psi to set packars; then openad tool to pump below packars, to treat the interval 3402-3411. Pressured tubing to 3300 pail; broke to 1700 psi. Threated at 1 bbi. per minute at 1500 psi. Joe scampleted at 12:00 non NST 4-39-61. Emmediat: shut down pressure 145D psi. 5 minute shut down pressure 1350 psi. Rigged up to eveb; found all pressure gome. Swubbed hack all diasel oil used for flush. Did not recover any acid water. Swubbed dry at approximately 2:30 p.m. Ran swab at 2 hour intervals until 6:00 a.m., recovering no fluid. Soted mom mut on sand line and swab. Show of gas. 21 days. <u>11.61</u> Ferry Federal b-30-61 Perry Federal 1 .4184 1135 Drilling, sand, with bit #2. Bit #1 made 962'. (Cactus) off at \$63'. 2 daves 12-61 Perry Federal 13-61 Perry Federal erai 1 4184 1611 Anhydrite. Preparing to run 8-5/8" OD surface (Cactus) casing. Finished drilling 11" surface hole to 1611' at 2:15 a.m., MST 4-13-61. 1/4° off at 1410. Bit #4, a Hughë OSCJ, made 231' in 16-1.2 hours. Added 7 sx gel to the mud. Mud viscosity 35 sec. 4 days. Testeral 1 1 4184 5411 13. Freparing to pull tubing and Lynes packars. (Gactum) Gommeting at 8:15 a.m., MST, 4-30-61. Bowell treated the interval \$402-3411 under Lynes packar with 3200 gallone 153 MET, 4-30-61. Bowell treated the interval \$402-3411 under Lynes packar with 3200 gallone 153 MET, 4-30-61. Bowell 14-1/2 bbls. acid into tubing before encommetering pressure. Pressure rose to 2300 psi. Broke back to 2200 psi. Pemped in remaining acid at 1200 psi at 4.4 bbls. per minute. Plunhed with 15 bbls. of diseal sil at 2200-3300 psi at 4.5 bbls. per minute. Plunhed with 15 bbls. af diseal sil at 2200-3300 psi at 4.5 bbls. per minute. Plunhed with 15 bbls. af diseal sil at 2200-300 psi at 6.5 bbls. cid water, 15 bbls. diseal sil. Swabbed back diseal oll, and 36 bbls. of acid water for a total recovery of 73 bbls. of fluid. Running swab & times per hour, finding 200' of fluid in the tubing Pluid recovered showed sulphur water -- would darkma a silver coin. Ho show of oil. Stopped swabbing at 4:30 p.m. Closed the tool to shur off the some below the bottom packars with 250 gallone of 157. ME acid. Pumped 230 gallons acid and 7-1/2 bbls. diseal oil into tubing before encountering pressure. Pressure toes to 1700 psi. Broke back alowly to 1500 psi. Pintished treateent at 1500 psi at 1.3 bbls. per min. Total flush 13-1/2 bbls. Job complete at 5:55 p.m. Immediate shut-down pressure 1400 psi. Sumbad diry. Doubed diry: Boude back bade diry: Doubed back bade diry: Boude bade bade diry: and reasure of oil. Pemparing to pull Lynes equipment. 22 days. Farry Vederal h-14-61 Ferry Federal 1 4184 1611 TD WOC. eral 1 4184 1611 TD. MOC. (Cactus) Elevation of KDB: 3619.0'. Ran 51 joints of \$-5/8" OD 244/ft. J-55 casing. 1602.67', plus a float shoe 1.60'. Net length of casing string 1604.27'. Set top of 8-5/8" casing 3.90' below KDB. 8-5/8" OD casing set at 1608.17'. Ran one centraliser on bottom joint. Cemented with 700 sx. 50-50 Possix, 4% gel, followed by 100 sx. regular neat. Mixing time 28 minutes. Pumping time 28 minutes. Slurry weight 13.04/gal. on Pozsix cement, 15.84/gal. on regular neat. Plag down at 1:26 p.m., MST 4-13-61. Crement inside casing. Maximum pressure 700 psi. 5 days. 5-15-61 Perry Federat derat 1 4184 1625 Drilling in sait Tested casing to 1000 psi (Cactua) Started drilling at 3:00 pm., MST, Found top of cament plug at 1559'. (Bits #1, 2, 3 and 4 -- make not previously reported -- all Mughes OBCJ bits). 6 daya. h-16-61 Parry Pederal 1-16-01 Ferry Federal 1 4184 1780 Drilling in shele and anhydrite. 1/4<sup>0</sup> off at 1720. (Cactus) (7 days) Drilling with cable tools. Original rotary KDB to cable tool derrick floor is 17". CTDF to ground level is 28". 

 61
 1
 4184
 3414
 TD. Preparing to plug and abandom.

 rry Federel
 1
 16184
 Jilibad pulling tubing and Lynes packar at 11:30

 a.m., MBT, 5-1-61.
 Bailed 1 hour, recovered 14 bbls. sulphur water.
 Found top of fill at

 3409'.
 Cleaned out to bottom.
 Fluid level 1760' from surface.
 Made 3' of new hole -- 3415

 3414, finishing at 2:30 p.m.
 Fluid level 1354' from surface.
 Bailed hole, recovering

 nothing but sulphur water.
 Nan beiler to loop of fluid, sgain recovered nothing but sulphur water.
 23 days.

 5-2-61 Perry Federal h-17-61 Petty federal 1 4184 1990 Drilling, sait. 3 40 off at 1907'. 8 days. (Cactus) 18-61 Perry Federal 1 4181 2185 Drilling, sait and anhydrite. 9 days. (Cactua) Ferry Federal 1 4184 3414 TD. 3100 spprox. PEID. Preparing to check top 4-19-61 Perry Federal (Cactus) 1 4164 346 1D. 3100 approx. FMID. Frequering to check top of plug. Ran bailer at 6:00 a.w., MST, 5-2-61. Found top of fluid 1400' from surface. Ran 2-3/8" OD EUE tubing, open-meded swung at 3404. Halliburton pumped 12 bbls. water thru' the tubing, followed by 100 sx. of regular mast cament. Mixing time 7 minutes; pumping time 6 minutes. Slurry weight 16:0% gal. Followed cament with 8 bbls. of water. Job complete at 12:00 noon, 5-2-61. Publed bottom of tubing up of 2500'. Pumped 4 bbls. of water thu' tubing to clear tubing. Picked up tubing to 1900'. Shut down over night. 1 4184 2400 Drilling, salt and potash. 3/4° off at 2395'. (Cactus) 10 days. -20-61 rry Federal 4184 2605 Drilling, salt and potash. 1-3.40 off at 2600'. 1 (Cactus) 11 dava 4-21-61 Ferrý Vederal 4184 2760 Drilling, selt and potash. 1-3,40 off at 2755'. 5-61 Perry Fideral 1 4184 3414 TD. Flugged and abandoned. (Cactus) 12 days. deral 1 4184 3414 TD. Flugged and ebandoned. Resuming operations at 7:00 a.m., NST, lowered tubing and checked top of plug at 3135 " Ficked up to 3105". Camented with 75 ar. regular neat cement, containing 6d salt/sack. Mixing time 5 minutes. Pumping time 4 minutes. Sivery weight 12.36/gal. Mile circu.sted while cementing. Finished at P:30 a.m., MST, 5-3-61. Picked up tobing to 2855'. Mixed one-hundred barrels of tod, using 23 ax. Magcogel. Mud viscosity 35 sec. Displaced fluid in hole with 100 bis. mud, completing at 9:30 a.m. Fulled tubing up to 1711'. Mixed 75 sr. regular meat cement, containing 6d salt per sack. Mixing time 5 minutes. Pumping time 4 minutes. Slurry weight 15.46/gal. Finished spotting plug at 1:04 a.m. Pulled tubing up to 45' from surface. Spotted 15 ax. requise neat cement. Mixing time 1 minute. Slurry weight 16. M/gal. Completed spotting tup is at 1:04 a.m. MST, 5-1-61. Installed a piece of 4" spipe actending 4-1 2' above ground level upon which is stunctied: Name of operator. Name of well. Locat.on. Released rig. FINAL REPORT 25 days. (Cactus) Ferry Vederal 4184 2910 Drilling, selt and anhydrite, 1-1/4° off at 2905. 1 (Cactus Drlg. Co.) 13 days. 4-23-61 Perry Feceral with an its statute 3 -0 off at 3 kur Cacture l→ days. lu-24-61 Perry Vederal (Cactua) \_\_\_\_\_ 4184, 3125 Drilling dolomite. 1+3/4" off at 3120. TI 13 days. .... Perry Federal ndersi 1 4164 3167 Drilling sand and shale. Sample tops. Base of tus) Rustler Dolomite 1700. Top of salt 1608 (Salt in the Rustler Dolomite section). Base of salt at 3000'. Top Yates 3160. 16 days. (Cactus) FORMATION TOPS <u>b-26-61</u> Perry Federal (Cactum) 1 4184 3279 Drilling dolomite and lime. 17 days. T/Rustler Anhydrite 1520 T/Salt 1608 B/Salt T/Tates 3000 3166 3408 -27-61 cross
cry Federa 1 +1t= 333b Drilling Time and doionite. 1t /ff at 331.
cry Federa 1 original Drilled sand 3167-3231. Drilled and and doionite
3253-32.3.3 After drilling the interval 3253-3279, bailed dry, then recovered 1 gal, mod
o. 1 br bailing test. Drilled ime and same with a light into to coll 3129-32.0. Drilled
biown and gray sand 3290-3307. On 15 br. bailing test at 3337, recovered 3 gal, mod and oil,
including about a cupful of clean 311. Perry Federa 1/7 Rivers 3414 Perry Federal 1 4184 3399 Trilling, said and dolbuite Art 3353' balled dry; took 1 your test, recovered (Cactus)

5 gellons of oil cut mud.

ILLEGIBLE

17 Cays

Gellons Oil Gellons Wtr. 8.35 1.67

20 days.

24 days

- - - - -

0.81 0.00