

CORE RECORD

<u>Date</u>	<u>From</u>	<u>To</u>	<u>Formation</u>	<u>Remarks</u>
8/18/62	4749	4799	L. San Andres	Rec. 49'. 4749-50 Anhy. - no show. 4750-57 Dolo. & Anhy. good show. 4757-79 Dolo. & Anhy. dense - no show. 4779-98 Dolo. good show.
8/19/62	4799	4820	L. San Andres	Rec. 15' Dolo. Fracture & broken. 4799-4810 fair show, 4810-13 good show, 4813-14 poor show.
8/20/62	4820	4835	L. San Andres	Rec. 14' Dolo. frac & broken 4820-29 good show, 4829-34 poor show
8/20/62	4920	4957	L. San Andres	Rec. 35-1/2" Dolo. 4920-28 poor show 4928-35 good show, 4935-50 poor show, 4950-55 very poor show.

DRILL STEM TESTS

- 8/24/62 DST #1 Yeso 5887-6000'. Tool open 1 hr. 5/8 x 1" ch. no WC. Weak blow, increased to strong blow in 35 min. Rec. 1010' gas + 830' sulphur wtr. SFP-0 IBHFP 95# FBHFP 380#. 2 hr. 5 min FBHSIP 2250# HHI 2535. Temp. 118° 1 hr. IBHSIP 2250# water 52,300 ppm Cl.
- 8/25/62 DST #2 Yeso 6000-6100 tool open 1 hr. 5/8 x 1" ch. No WC open w/strong blow decreased to weak blow. Rec. 550' gas + 5150' salty sulfur water SFPO IBHFP 823, FBHFP 2290#. 2 hr. FBHSIP 2301#. HHI 2587, BHT 110° F. 1 hr. IBHSIP 2328#, water 30,000 ppm Cl.
- 8/26/62 DST #3 Yeso 6100-6200 tool open 1 hr. 5/8 x 1" ch. No WC weak blow. Rec. 210' drlg. fluid. SFPO BHFP 102-128, 2 hr. FBHSIP 2150#. HHI 2600#. BHT 113° F. 1 hr. IBHSIP 2250#.
- 8/29/62 DST #4 Yeso 6400-6500 tool open 1 hr. 5/8 x 1" ch. No WC open strong blow. Rec. 3350' gas + 70' oil + 200' oil cut drlg. wtr. + 80' salty oil cut water, chloride in wtr. 5500 ppm. SFPO, BHFP 89-180#, 2 hr. FBHSIP 1544# HHI 2794. BHT 144° F. 1 hr. IBHSIP 2027# swab 23 BLW + trace oil in 5 hrs. Swb. dry 4 hrs. Pulled 2-3/8" tbg. & pkr. Ran 4035' N-80 4-1/2" csg. Guib. hookwall pkr. displacing water w/oil. Pulled & reran 4-1/2" csg. to 4050'. Cardinal Chemical sand oil frac perfs. 6394-6697 w/20,000 gal. refined oil + 40,000# 20-40 sand + 1/40# gal. addomite + 27 RCN ball sealers. Breakdown pr. 5500#, trt. pr. 6000-5200#, 5400#, 5100#, 5300#. Rate 20.6 BPM. ISIP 3500#. 5 min. SIP 3100# SI 8 hrs. TP 2250#. Bled off 167 BLO in 13 hrs. Flowed 12 BLO in 10 hrs. 48/64" ch. Released pkr. circ. oil out w/wtr. started to pull 4-1/2" csg. collar stripped off, dropped csg. 2'. Displaced fresh wtr. to 10# SW. McCullough cut 4-1/2" csg. @4005', pulled 4-1/2" csg. Ran 3-1/2" DP, 6 DC & jars & spear. to 4005'. Caught fish, tripped jars & pulled. Failed to recover fish. Reran spear, fished & rec. Guib. pkr. & holddown tool. Left slipoff pkr. in hole. Ran 4" Mag. basket to top of liner, slips had fallen to bottom. Ran 2" tbg. w/Guib. pkr. & holddown to 6377', pkr. @ 6310'. Swab & flowed 524 BLO + 625 BNO + 94 BLW in 57 hrs. TP 240, 24/64" ch. Kill well with 9# inverted oil emulsion mud. Pulled tbg. & pkr.

Frontier Co. perf: 5" liner in L. San Andres 5298, 5313, 5325, 5328, 5333, 5337, 5342, 5344, 5354, 5360, 5364, 5368, 5376, 5380, 5384, 5450, 5454, 5457, 5461 & 5466 w/1 1/2" jet shot/ft. Ran Baker Model "D" pkr. w/expendable plug @ 6360' in 5" liner. Ran & set Baker ret. BP @ 5522. Circ. mud to oil, pulled 2" tbg. Ran 4-1/2" csg. w/Guib. pkr. to 4045. Cardinal Chemical sand oil frac L. San Andres perfs. 5298-5466 w/15,000 gal. lease crude + 30,000# 20-40# sand + 1/40# gal. addomite + 16 RCN ball sealers + 450 gal. 15% HCl acid. Brk. down pr. 4700#, Trt. pr. 5200-6000-5700#. Rate 26.7 BPM, ISIP 3300#.

SI 8 hrs. CP 600#. Bled 54 BLO in 10 hrs. TP 600 to 0. Pulled 4-1/2" csg. Ran 2" tbg. w/Guib. pkr. set @ 5215'. Swab 50 BLO + 11 BAW + 426 BSW in 40 hrs. Pulled tbg. & pkr. Ran RTTS tool to 5492. Rev. 132 BLO. Set tool @ 5096'. Howco squeezed perfs. 5298-5466' w/150 sx. Trinity Inferno neat cement. Cleared perf. w/10 BW. WOC 8 hrs. Howco squeezed perfs. 5298-5466 w/60 sx. Trinity Inferno neat cement max. pr. 5000#. WOC 6-1/2 hrs. Drld. cement 5101-5483. Ran RTTS tool on 2" tbg. to 5096'. Tested perfs. w/3000# for 30 mins. Rev. circ. sand 5492-5522. Reset ret. BP @ 5288 & pulled 2" tbg. Frontier perf. L. San Andres 5078, 5082, 5087, 5092, 5095, 5100, 5107, 5111, 5127, 5130, 5166, 5176, 5180, 5191, 5196, 5202, 5216, 5233, 5237 and 5238 w/1 1/2" JSPF (20 holes) Ran 4-1/2" csg. w/Guib. pkr. to 4035, unable to set pkr. Pulled & reran pkr. to 4045 Attempted to brk down 80 Bbls. @ 6000#. Pulled 4-1/2" csg. Ran 2" tbg. to 5245 w/pkr. @ 5068'. Cardinal Chemical acidized perfs. 5078-5238 w/1000 gals. 15% acid. Brk. down pr. 2000# TP 4000#. Rate 3 BPM pulled 2" tbg. & pkr. Ran 4-1/2" csg. & set Guib. pkr. @ 4025'. Sand oil frac perfs. 5078-5238 w/15,000 gals. lease crude + 30,000# sand + 1/40#/gal. Mark III Adomite + 16 RCN ball sealers + 450 gals. 15% NE acid in 3 stages. Brk. down TP 4500# TP 4500-4000-4600#. Avg. rate 30.6 BPM ISITP 2300# SI 8 hrs. TP 2300-0#. Pulled 4-1/2" csg., top sand @ 5336'. Ran 2" tbg. to 5153', hookwall pkr. @ 5055', swabed 110 BLO + 11 BAW + 309 BSW in 45 hrs. No show of gas. Circ. oil & SW w/fresh watr. Pulled 2" tbg. & pkr. Ran RTTS to 4878'. Halliburton squeezed perfs. 5078-5238 w/200 sx. Trinity Inferno neat cement. Max. pr. 6000#. Rev. 10 sx. cement. Ran 4-1/4" bit & csg. scraper, drld. cement 4889-5240'. Pulled ibt, ran RTTS to 4594'. Tested perfs. w/3000#, leaked to 2000# in two mins. Reset @ 4878 & resqueezed perfs. 5078-5238 w/50 sx. Trinity Inferno Cement. max. pr. 6000#. WOC 12 hrs. drld. cement 4883-5250. Pulled bit and ran RTTS to 4878. Tested perfs. w/3000#. OK. Pulled RTTS. Ran Baker ret. head to 5250'. Rev. sand to 5308'. Reset ret. BP @ 4907'. Frontier perf. 5" liner in L. San Andres 4756, 4790, 4794, 4798, w/2 1/2" JSPF. Ran 2" tbg. to 4820, Guib. pkr. @ 4630'. Cardinal Chemical acidized perfs. 4756-4798 w/500 gal 15% NE acid. Bk down TP 3800#, Trt. TP 3800-3200#. Rate 3 BPM. ISIP 2400#.

Pulled 2" tbg. & pkr. Ran 4-1/2" csg. & pkr. to 4045'. Sand oil frac perfs. 4756-4798 w/5000 gal. lease crude + 10,000# 20-40 sand + 1/40# addomite/gal. + 5 RCN ball sealers. Trt. Pr. 5500#. Avg. rate 28.4 BPM. ISIP 3300#. SI 8 hrs. TP 400#. Bled 9 BLO in 2 hrs. Pulled 4-1/2" csg. Tagged sand @ 4800'. Ran 2" tbg. to 4785', Guib. pkr. @ 4682'. Swab 353 BLO + 34 BAW + 6 BSW in 105 hrs. Pulled 2" tbg. & pkr. Ran Baker ret. head, circ. out sand. Rec. Baker BP Ran 2" tbg. open end to 6360, circ. clean. Pulled 2" tbg. Remove BOP, install hanger install BOP, Ran 2-3/8" tbg. 0-3927, 1-1/4" tbg. 3927-5483, 2-3/8" tbg. 5483-6365. Pkr. @ 6360'. Ran 2-3/8" tbg. 0-3289, 2" tbg. 3289-4798'. Pump seating nipple @ 4757'. Baker Parallel string anchor @ 4798'.

From Yeso Perfs; 6394-6697 swab & flowed 346 BLO + 64 BNO + 23 Bbls. drilling mud in 58 hrs. On NMOCC pot. test flowed 304 BNO + 96 Bbls. inverted oil emulsion mud in 24 hrs. 22/64" ch. TP 175-200# GOR 1041 Gty. 36.1 @ 60°. Completed 10/10/62.

From L. San Andres perfs. 4756-4798. Ran rods & pump. Installed pumping unit. Pumped 340 BLO + 12 BLW + 495 BSW in 357 hrs. on NMOCC pot. test pumped 24 BNO + 40 BSW in 24 hrs. 13-40" SPM. GOR 1056 Gty. 38.2. Completed 10/9/62.