

Folgers #228 Drilling

Well	Folgers #228	Rig	Energy Drilling #14	Days Since Spud	10
API #	42-123-31749	Rig Phone #		AFE Amt / #	\$1,534,600 / D7384
Field	Coffee Valley	RKB	20.5'	Cum Cost	\$1,209,134
Location	Section 002, T10S-R03W	Ground Elevation	11.8'	Daily Cost	\$54,987
County, State	Dewitt, TX	Water Depth		Proposed (MD/TVD)	13,521' 13,500'
Permit #	251532			Present (MD/TVD)	7,211' 7,193'
Supervisors	Eugene Troxell			Daily Progress	1,189'

Activity Summary Drill to 6148'. Circ. Sweep, Wiper trip to 3530'. Adjust brakes. TIH. Drill to 6148'. Change seat in mud pump #1. Drill to 7211.

Activity Planned Drill to 1800 hrs. CBU. Wiper trip to 6022'. Drilling ahead.

	MD	TVD	Daily Progress		
12/15/2021	24 Hr Summary	Moving Energy rig #14 from Gueydan, LA location to Jennings, LA location			
	Operations	Rig down Energy Rig #14 at Gueydan location and truck to Jennings location. Approx. 37 miles one way. 8 loads delivered today, tubulars, BOP's, mud pump, generator skid, mud tank, and water tank. Shut down for night			
	Daily Cost	\$36,197	Total Cost	\$36,197	

	MD	TVD	Daily Progress 0'		
12/16/2021	24 Hr Summary	Continue moving energy rig #14, Spot mud pits, pumps, water tank, generators			
	Operations	Continue moving Energy Rig #14 from Gueydan location to Jennings location. 12 loads made to location. Spotted mud pits, mud pumps, SCR house, water tank, and 2 of the 3 generators. 15 jts of rental HWT DP and 2-Jars delivered with lift sub. Made up mud pump lines and mud pit lines. SDFN (Shut down for night)			
	Daily Cost	\$156,343	Total Cost	\$192,540	

	MD	TVD	Daily Progress 0'		
12/17/2021	24 Hr Summary	Continue moving rig and rig up subs, set drawworks. R/U TP and crew houses.			
	Operations	Continue moving Energy rig #14 from Guaydan location. R/U subs, Tool pusher and crew houses, finish setting gen sets, R/U same. Guichard finished installing water lines from water well. Jewel R/U TP and crew house water and sewage systems. Tested water well, O.K. Set drawworks. SDFN			
	Daily Cost	\$154,553	Total Cost	\$347,093	

	MD	TVD	Daily Progress 0'		
12/18/2021	24 Hr Summary	Continue with rig up, unload misc. equipment from old location. Assemble derrick, pin on rig floor, prepare and raise derrick. R/U rig floor.			
	Operations	Continue rigging up Energy rig #14, assemble derrick, pin on rig floor, get main generators up and running, unload misc. rig parts and tubulars from old location. Run wiring to fig floor. Set parts house, HPU skid, tool box and dog house. Spot bulk tanks. Prepare rig floor, string up block, Raise derrick at 2130 hrs. Pin same. R/U rig floor. Break tower at 1800 hrs, night crew will come back on at 2400 hrs. Day crew stayed on till 2400 hrs.			
	Daily Cost	\$3,919	Total Cost	\$351,012	

	MD	TVD	Daily Progress 0'		
12/19/2021	24 Hr Summary	Continue rigging up floor, P/U and M/U top drive, hook up hydraulic lines, test HPU. Set and rig up PMI equipment			
	Operations	Hang service loop for top drive. Unload misc. rig equipment from old location (tubulars and such), rig up PMI equipment, hang top drive track in derrick. Change oil in HPU. Pull coupling off gen #3. Offload chemical for mud (pallets). Pick up top drive, hook up service lines and vibrator hose. Change oil in TDS. Wiring up PMI equipment. Change out draw works brakes. Installed bell nipple on conductor.			
	Daily Cost	\$14,440	Total Cost	\$365,452	

	MD	TVD	Daily Progress 0'		
12/20/2021	24 Hr Summary	Change brake bands on drawworks, change pump liners and swabs, mix spud mud. Lay out BHA #1, perform rig audit. Finish R/U PMI equip. and test.			
	Operations	Continue with changing brake bands on drawworks, burn in brakes. Notify State CES Blake Levgerne on intent to spud well. Continue with R/U of PMI equipment. Test HPU. R/U .092 wireline unit. Install flowline. Changing out mud pump liners f/ 5.5" to 6". Working on swapout of #1 engine generator. Layout and strap BHA #1. Install shaker walkway for slides. Dress shakers.			
	Daily Cost	\$23,673	Total Cost	\$389,125	

	MD 158'	TVD 158'	Daily Progress 158'		
12/21/2021	24 Hr Summary	Finish mud pump, Finish mixing spud mud. Install shaker troughs. Organize and clean up location.			
	Operations	Rig started on daywork at 0600 hrs. Continue changing mud pump liners and swabs from 5.5" to 6". Finish mixing spud mud. Install 2" PVC poles for borders for trucks. Finish grounding equipment. Install shaker troughs. Organize equipment on location, pick up trash and replace broken boards from rig up. Get location clean and organized. Hook up jeronimo line. Install 30 ft. mousehole. Use 30 ft for P/U BHA Move tubulars to get to BHA Held pre spud meeting w/ rig personnel, mud engineers and solids control Continue moving tubulars and strap BHA Unable to scope out TDS to mousehole for connection. Troubleshoot and adjust hyd pressure on same, check hoses. P/u stab.,x/o, b/s and make up jt. of hwt for kelly joint. Washing conductor out f/ 0 to 158'. 350 GPM w/ 300 psi, 35 Rot. w/ 1500 tq. Flowline plugging off at possum belly. Troubleshoot, clean out flowline, resume pumping, when pumps are shut off and restarted, flowline plugged. Unplugging flowline 4x washing through same. Lined up for returns to go overboard to attempt to clean out.			
	Daily Cost	\$48,937	Total Cost	\$438,062	

	MD 1,172'	TVD 1,172'	Daily Progress 1,014'		
12/22/2021	24 Hr Summary	Wash out cond., survey at base. Spud well, drill ahead. Repair TD. Drill to 1167'. Weight indicator issues. Wait on tech. State CES Blake Levgerne made a visit. All Good			
	Operations	Continue washing out conductor pipe (20") from 158 ft. to 207 ft. RKB (187' pen.) 350 GPM, 300 PSI, 35 RPM, 1200 torque. Circulate conductor clean at 207 ft. 350 GPM, 300 PSI, reciprocating pipe. Take deviation survey at 207 ft. 1.37 degrees. Spud in well at 207 ft RKB (187' pen.) Drill to 346 ft. (139') 70 SPM, 350 GPM, 350 PSI 35 RPM 1200 ft/lb torque. Repair Hyd. Hose on top drive. Hung on top drive track. Fixed hose, then hyd. Dolley Cylinder for extending TD to mouse hole broke at yoke. Replace cylinder Continue drilling ahead from 346 ft. to 498 ft. 110 SPM, 400 GPM, 450 PSI, 55 RPM, 700 ft/lbs torque. Encountered gravel at 380 ft. Circulate hi vis sweep to surface Take deviation survey at 498 ft.= 0.87 degrees. Continue drilling ahead from 498 ft. to 558 ft. 110 SPM, 400 GPM, 450 PSI, 55 RPM, 700 ft/lbs torque. Staging pumps, and rotary up as shakers will allow. Circulate out hole clean, hole packing off, in pea gravel. Continue drilling ahead from 558 ft. to 660ft. 110 SPM, 400 GPM, 450 PSI, 55 RPM, 700 ft/lbs torque. Staging pumps, and rotary up as shakers will allow. Perform rig service Continue drilling ahead from 660ft. To 993 ft. 177 SPM, 624 GPM, 1100 PSI, 75 RPM, 1200 ft/lbs torque. Staging pumps, and rotary up as shakers will allow. CBU to survey. 635 GPM w/ 960 PSI, 45 Rot., 750 tq. Take deviation survey at 993 ft.= 1.4 degrees. Continue drilling ahead from 993 ft. to 1172 ft. 177 SPM, 624 GPM, 1100 PSI, 75 RPM, 1200 ft/lbs torque. Staging pumps, and rotary up as shakers will allow. After making connection weight indicator readings were not consistent. Attempted to pump up same unsuccessful. Pancake was extended to limit and not retracting back in. Circulating at reduced rate while waiting on tech for weight indicator ETA 0800 hrs. 350 GPM w/ 350 psi. 30 rpm w/ 0 TQ. Processing mud in pits. Continue working to repair weight indicator.			
	Daily Cost	\$40,296	Total Cost	\$478,358	

	MD 2,965'	TVD 2,965'	Daily Progress 1,793'		
12/23/2021	24 Hr Summary	Drill and survey f/ 1172 ft to 2965 ft. had weight indicator and HPU issues. 4.5 hrs repair time.			
	Operations	Circulate and rotate at a reduced rate as having weight indicator issues not reading right. OFI called out to check theirs. Energy called out tech to repair their weight indicator. Shut down and pull 3 stands to check weight indicator readings both rigs and OFI. Rigs weight indicator 30k off. Drilling from 1172 ft to 1479 FT (307') 160 SPM, 665 GPM, 1640 PSI, 70 RPM, 1300 ft/lbs torque. While drilling using OFI screen, tech repaired Energy's weight indicator. Circulate sweep to surface at 1479 ft, 160 SPM, 665 GPM, 1650 PSI, 30 RPM, reciprocating pipe. Take deviation survey at 1479 ft.= 1.44 degrees. Drilling from 1479 ft to 1942 FT (463') 160-180 SPM, 665-748 GPM, 1200-1400 PSI, 70-80 RPM, 3200-5000 ft/lbs torque. Circulating sweep to surface, 160 SPM, 665 GPM, 1300 PSI, 30 RPM, reciprocating pipe. Take deviation survey at 1942 ft.= 0.91 degrees. Drilling from 1942 ft to 2223 FT (281') 160-180 SPM, 665-748 GPM, 1200-1400 PSI, 70-80 RPM, 3200-5000 ft/lbs torque. Attempting to make connection, unable to due to HPU not revving up for needed hyd. Pressure. Tested communication cable. Tested good. Worked on HPU unit, unable to correct issue. Mechanic on way from Houston. Made connection using tongs to break out of TDS. Drilling from 2223 ft to 2470 ft (247') 160-180 SPM, 665-748 GPM, 1400-1600 PSI, 70-80 RPM, 4000-6000 ft/lbs torque. Circulating sweep to surface, 160 SPM, 665 GPM, 1500 PSI, 40 RPM, reciprocating pipe. Take deviation survey at 2470 ft.= 0.68 degrees. Drilling from 2470 ft to 2965 ft (495') 160-180 SPM, 665-748 GPM, 1400-1600 PSI, 70-80 RPM, 4000-6000 ft/lbs torque. Circulating sweep to surface, 160 SPM, 665 GPM, 1500 PSI, 40 RPM, reciprocating pipe.			
	Daily Cost	\$38,566	Total Cost	\$516,924	

	MD 3,560'	TVD 3,560'	Daily Progress 595'		
12/24/2021	24 Hr Summary	Drill and survey. Pump on HPU went down. Cont. drilling at reduced RPM rate. To 3560'. CBU. Wiper trip to shoe. TIH. CBU. POOH.			

	Operations	Take deviation survey at 2961 ft.= 1.09 degrees. Drilling from 2965 ft to 3057 ft (92') 160-180 SPM, 665-748 GPM, 1600-1700 PSI, 90 RPM, 2500 ft/lbs torque. Mechanic arrived to troubleshoot top drive. Couldn't find anything initially, so Going back drilling and he will troubleshoot as we go. Drilling from 3057 ft to 3231 ft (174') 160-180 SPM, 665-748 GPM, 1600-1700 PSI, 90 RPM, 2500 ft/lbs torque. TD quit rotating. TD tech was here, troubleshoot, found hyd. Pump not putting out what it should. (1 of 2 pumps) Discussed with TP,pump ordered, 4-5 hr ETA. Instead of sitting idle, tech believed we could get 40-5- rpm off other pump and still operate other functions on the TD. Went back to drilling from 3231 ft. to 3431 ft. (200'). Drilling with reduced RPM, 40-58, 162 SPM, 680 GPM, 1650-1700 PSI, 1400-1800 ft/lbs torque. Rig service Troubleshoot issues w/ TDS. Unable to rotate. TDS started working again after performing checks. Drilling from 3431 ft. to 3560' (129'). TD casing point Drilling with reduced RPM, 40-58, 162 SPM, 680 GPM, 1650-1700 PSI, 1400-1800 ft/lbs torque. Pump 70 BBL Hi-Vis sweep and circulate out. POOH f/ 3560' to 200' SLM out of hole, No correction. Max Drag 20K. Hole taking correct fillups. TIH f/ 200' to 3560'. Wiper trip. No drag. Correct displacement. Pump 70 BBL Hi-Vis sweep and circulate out. 55 RPM TQ 650, 1950 PSI, Work pipe while circulating.		
	Daily Cost	\$74,039	Total Cost	\$590,963
12/25/2021	MD 3,560'	TVD 3,560'	Daily Progress	0'
	24 Hr Summary	Circulate, take survey, POOH. R/U and run 13-3/8" casing. Circulate hole clean. R/U and cement casing.		
	Operations	Continue Circulating sweep out of hole. 160 SPM, 650 GPM, 1800 PSI, 55 RPM, Take deviation survey at 3560 ft.= 0.99 degrees. Circulate bottoms up at 3560 ft. Working and rotating pipe. 202 SPM, 846 GPM, 2450 PSI, 20 RPM. Pump slug, POOH F/ 3560 ft. 10k drag max, hole taking proper fillups. L/D 17-1/2" Stabs and bit. Rack back collars. Clean rig floor for safety, clean gumbo from bit and stabilizers and remove from rig floor. Unload OES casing tools from trucks and rig up same. R/U laydown truck equipment. PJSM, P/U and make up 13-3/8", 61#, J-55, BTC casing. Run shoe, 2 jts float collar and 84 jts in the hole. Place centralizers on shoe track, and every 3rd jt to 119 ft. 33 total. Filling casing with hose off standpipe. Every 20 jts making sure pipe is full. Run csg to 3557 ft. P/U 220k, S/O 180k. Make up cement head, circulate with rig pumps, 140 SPM, 590 GPM, 350 PSI, riciprocating pipe while circulating. PJSM, Break circulation, test lines to 3000 PSI.Drop bottom plug. Pump 90 BBL water spacer. Mix and pump Lead 2090 sks RPS 25+0.01 gps AF-100L cement, 12.0 PPG, yld 2.03 cuft/sk, for 755 bbl slurry. Pumped at 9 bbl/min. 500 PSI. Mix and pump Tail 500 sks RPS A+0.01 gps AF 100L cement, 15.6 ppg, 1.18 cuft/sk yld, for 105 bbl slurry. Pumped at 9 bbl/min, 500 PSI.Drop top plug. Displace with 9.2 ppg WBM at 9 bbl/min, 670 PSI. 150 of 528 bbls pumped at report time.		
	Daily Cost	\$70,869	Total Cost	\$661,831
12/26/2021	MD 3,560'	TVD 3,560'	Daily Progress	0'
	24 Hr Summary	Finished displacement. Perform top job. R/D cement and casing tools. Cut casings, weld on preheated starter head. N/U BOP's. Run Gyro.		
	Operations	Continue displacing 13-3/8" casing. 9 bbl/min, 675 PSI. Started getting cement back to surface at 450 bbls of 528 bbls pumped. Diverted to open top tanks. Slowed pumping rate to 6.4 bbls/min at 900 PSI. Bumped plug at 900 PSI. 528 bbls pumped with 1000 PSI. Pressure up 500 PSI over and hold 5 min. Bleed off pressure, 3 bbls back. Run 1" grout string to 120 ft. Mix and pump 100 sks RPS-A cement + 2% CaCl2 + 0.01 gps AF 100L, mixed at 15.6 ppg, 1.18 yld, for a 21 bbl slurry. Good cement to surface. Remove cement head. Rig down RPS cementing equipment. Visit from Blake Levgerne with the state. Notified him of BOP test coming up. Energy mechanic working on HPU. Slack off csg string, no movement. R/D casing equipment. Clear rig floor of casing equipment. Clean cellar, pump out same. Disconnect flowline and fill up line. Make rought cut on 20" and 13-3/8" casings, L/D same. Make final cut and dress 20" and 13-3/8" to install preheated 29, 13-5/8" 5M X 13=3/8" SOW wellhead. Test to 770 psi for 15 minutes. Rig Service and Held PJSM w/ crew on N/U BOPE Install 5M x 10M 13 5/8" DSA, 10M spacer spool, 10K single pipe ram, 10M x 5M 13 5/8" DSA. 5K double rams (Blind rams and pipe rams)and Annular. Modify shaker slides. Torque bolts on BOP'S and rigging up choke and kill lines,while running Gyro w/ Rusty Clark		
	Daily Cost	\$252,507	Total Cost	\$914,338
12/27/2021	MD 3,560'	TVD 3,560'	Daily Progress	0'
	24 Hr Summary	Nippling up BOP's, Energy working on HPU unit, Testing choke and safety valves. Change rams in Energy double BOP. Testing BOP's.		
	Operations	S/M on nipling up BOP's.Continue nipple up BOP's, installing choke and kill valves and hoses onto bottom of double stack outlets. R/U francis torque and start testing choke 250 psi low 5000 kigh, good test. While installing test plug in BOP's test plug unable to go down. Pulled bell nipple, and installed test plug. Tested annular to 250 low 3500 high, good test. Pulled test jt, L/D V-door and move catwalk. Swap top and btm rams on double Test Upper pipe rams, Blind rams, wing valves, floor valves, 250 low, 5000 psi high, tested TDS safety valves, Standpipe, Leaking in standpipe middle section in derrick. Break union in derrick, loosen clamp, raise standpipe and change out 4" gasket. Test standpipe and valves and . 250 low 3500 psi high. Test TDS TIW to 250 low 5000 high. RD testers. Changing out HPU service lines in derrick and R/D HPU unit for swap out.		
	Daily Cost	\$68,525	Total Cost	\$982,863
12/28/2021	MD 3,560'	TVD 3,560'	Daily Progress	0'
	24 Hr Summary	Change out HPU unit and rig up same		
	Operations	Continue changing out HPU service lines in derrick and drain oil from service loop. Waiting on HPU to be delivered from Houston. ETA 1200 hrs. Spot catwalk and P/U v-door. Install shaker slides. New ETA on HPU, leaving Houston at approx. 1400 HRS. ETA at 1800 to 1900 hrs. R/U and install new rig tongs R/U trip tank and gas buster. Hook up flowline and fillup line Put remaining bolts in bell nipple and tighten same, finish dressing out tongs, pull old HPU and prepare for new unit. Mechanic arrived at 2120 hrs and new unit arrived at 2145 hrs. Unload new HPU unit and spot in place. Load old HPU, R/U HPU, M/U service loop to TDS Function test TDS, All functions working, Leak on 2" line. Changed o-ring and tighten same. Put sock and worm wrap on service loop. Pulled jumper out of circuit breaker, installed in new unit. Swapped diesel and hyd. Hose fittings to match. Changed charge and shuttle flow meters, ran TDS to adjust charge and shuttle pressures.		
	Daily Cost	\$42,106	Total Cost	\$1,024,969
12/29/2021	MD 4,175'	TVD 4,175'	Daily Progress	615'
	24 Hr Summary	Finish repairs on HPU, P/U BHA, TIH, Tag cmt, CBU, Circ, test csg., Drill FC, CBU, retest csg, Dril shoe track and 10' new formation. FIT, Drill ahead		
	Operations	Continue adjusting HPU (Fine Tuning) shuttle pressures for the top drive. Rig back on contract. P/U directional BHA #1, 1.5" mud motor, and MWD with gamma. Orientate motor with MWD, P/U single and test MWD tools. Tighten bell nipple as it started leaking when testing MWD tools Test MWD tools. Ok Move drill collars from right side of derrick to left side to get out of the way of the spinning wrench. TIH with directional BHA #1 to 3327 ft. Tag cement. Rig service, Held S/M w/ crew. Changed out 30' mousehole to 90' P/U 6 jts DP, TIH and tag cmt at 3457' Circulate and condition mud at 3457' for 13 3/8" casing test. 550 gpm w/ 1200 psi, 30 ROT. Reciprocating pipe. Circulate and condition mud at 3457' for 13 3/8" casing test. 550 gpm w/ 1200 psi, 30 ROT. Reciprocating pipe Drill float at 3470', drilled cmt to 3480' 10' past float collar. Test 13 3/8" casing to 1500 PSI for 5 minutes (Good test) 3.2 bbls for pressure. Drill cement f/ 3480' to 3560'. Shoe at 3557'. Drill new formation f/ 3560 to 3570'. Retest FIT. Tests w/ 810 psi test mud, 9.5 ppg equiv. to 13.87 ppg (Good test) Drill f/ 3570 to 3774 (204') 600 gpm 2000 psi, 73 rpm, 1700 TQ Mud running over shakers, 40' tank running over, 2, 2" diaphram pums and PMI electrical pump, unable to keep up. Had vac trucks in route. Drill f/ 3774 to 4175 (401') 520 to 700 gpm 2000 to 2200 psi, 73 rpm, 1700 TQ		
	Daily Cost	\$59,959	Total Cost	\$1,084,928
12/30/2021	MD 6,022'	TVD 6,016'	Daily Progress	1,847'
	24 Hr Summary	Drilling f/ 4175' to 6022'		
	Operations	Drilling ahead from 4175 ft to 6022 ft. For 1847'. 160-170 SPM, 675-710 GPM, 3150 PSI, 70 RPM, 3000-6000 ft/lbs torque. Start kickoff at 4500 ft. Slide as directed by DDS. Pumping Hi-vis sweep every 3 stands drilled. 20% increase in cuttings on B/U of sweep.		
	Daily Cost	\$69,220	Total Cost	\$1,154,147
12/31/2021	MD 7,211'	TVD 7,193'	Daily Progress	1,189'
	24 Hr Summary	Drill to 6148'. Circ. Sweep, Wiper trip to 3530'. Adjust brakes. TIH. Drill to 6148'. Change seat in mud pump #1.Drill to 7211.		
	Operations	Drilling and sliding to stay on directional plan from 6022 ft. to 6148 ft. For 126' ft. 165 SPM, 700 GPM, 3000 PSI, 70 RPM, 1200-3500 ft/lbs torque. Circulate 40 bbl hi vis sweep w/ LCM to surface at 6148 ft. Working and rotating pipe. 165 SPM, 700 GPM, 2800 PSI, 70 RPM, 1300 ft/lbs torque Pump slug, Short trip from 6148 ft. to 3530 ft. 30-40k drag in spots. Work back down through spots and excessive drag gone. Adjust brakes on drawworks, rig service. Trip back in hole from 3530 ft to 6148 ft. Hole taking proper fillups. Drilling and sliding to stay on directional plan from 6148 ft. to 6294 ft. For 146' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque. Max gas after short trip 70 units. Change seat and valve on #1 mud pump. Discharge valve between pumps was leaking preventing pumping with #2 mud pump. Changed paddle and rubbers on discharge valve. Drilling and sliding to stay on directional plan from 6294 ft. to 7211 ft. For 917' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque		
	Daily Cost	\$54,987	Total Cost	\$1,209,134