

WELL: Pirate U 13-13 #4

DAILY OPERATIONS			
FIELD:	Shafter Lake (San Andres)	Drilling AFE Number	CX 1441
COUNTY/STATE:	Andrews/Texas	TOTAL AFE:	\$0
PTD:	5,000		
LOCATION:			
ELEVATION (RKB):	3,255		
API #:	42-003-47541		
SERIAL NO:			
SPUD DATE:	Sep 5 2017		
OBJECTIVE:	Drill a San Andres Vertical Producer		
JOB NAME:	2017_09 - Drilling		
CONTRACTOR/RIG#:	Savana/415		

Sep 6 2017	MD: 1,523	TVD: 1,523	FOOTAGE: 1,523	MW: 8.4	LB	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	Drill surface hole ahead				
	Move Savanna 415 drilling package F/ Pirate U 13-13 #3 to Pirate U 13-13 #4; Spot rig, level & center over hole. Spot dog house, rig generator, tanks, mud pumps, axon, camp generator, water & diesel tanks; R/U electrical, put in ground rods, hydraulic lines, suction lines. Scope up dog house, raise and scope out derrick. R/U flowlines to reserve pit. Strap & caliper BHA. Perform pre-spud checklist & accept rig at 1500hrs. Note: bit sub, float, & baffle plate were washing out. Called out for replacement float & baffle, Savanna called for replacement bit sub.; Take on water in frac tanks, build spud mud as per mud engineer.; M/U 11" bit, bit sub, BHA; Drill ahead F/ 40'-250'; WOB=15Klbs, RPM=75, PP=450psi, 321GPM, Torq=5700; Drill ahead F/ 250'-1010'; WOB=25Klbs, RPM=80, PP=1250psi, 642GPM, Torq=7700 Note: Lost rtms around 215'. Pumped LCM sweep (24 vari seal / 10 cotton seed hulls / 10 cedar fiber / 5 maxi seal). Repeated sweeps while dry drilling (2) more jts. Built another sweep (15 cotton seed hulls / 15 cedar fiber / 15 maxi seal / 5 paper) filled backside of hole and staying full. Sweep hole & re-established returns. Drill ahead back reaming each jt.; Drill ahead F/ 1010'-1523'; WOB=25Klbs, RPM=80, PP=1300psi, Torq=8100. Back ream each jt.					
	ACTIVITY PLANNED:	Finish surface hole / Run & Cmt csg / N/U & test head / N/U & Test BOP				
	DAILY JOB COST:	\$128,575		TOTAL JOB COST:	\$128,575	
	TOTAL WELL COST:	\$128,575				
Sep 7 2017	MD: 1,718	TVD: 1,718	FOOTAGE: 195	MW: 8.9	LB	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	RIH w/ surface casing				
	Drill ahead F/ 1523'-1608'; WOB=25Klbs, RPM=75, PP=1300psi, Torq=8100. Back ream each joint.; Inclination survey (2x), 1606'=3deg; Drill ahead F/ 1608'-1700'; WOB=25Klbs, RPM=75, PP=1300psi, Torq=8100. Back ream each joint. Stop drilling at 1700' and wait for casing tally. Note: Casing arrived on location at 0800hrs.; CCM while getting casing tally to determine TD of hole section; Complete drilling to hole section F/ 1700' -1718'. Pump sweep and circulate hole till clean. Spot pill.; POOH w/ 11" bit and BHA #1; PJSM, R/U Smith casing running tools. M/U Float equipment & RIH to tag at +/-116'. R/U swedge & attempt to pump down csg. Attempt to turn casing and work down with csg tongs. Chain block to csg and attempt to push csg. Pump detergent and MF-55 sweeps. Csg won't go down. Released cementers due to issues running casing. L/O 1 jt csg & pump thru swedge. M/U 1 jt of csg & RIH to tag at same spot. Circulate thru swedge and pump high vis sweep. Turn and work casing in attempt to RIH. Fail.; POOH w/ (3) jts of casing. M/U 11" bit and BHA for wiper trip, RIH to tag at +/-116'. M/U top drive & W/R down. RIH (3) more jts & spot pill. Continue RIH. Wiper Trip BHA: Bit, Bit Sub, 8" Pony DC, XO, (4) 6.5" DC, (10) HWDP; Continue to RIH washing & reaming out tight spots as needed to 1718'. Pumping sweep after wiping out tight spots. Adding more starch to active system to aid in running casing; Pump sweep at bottom. Circulate till hole clean of LCM & cuttings.; POOH wiping any tight spots out to 850' & Circulate B/U. POOH to 300' & spot pill.; PJSM; R/U Smith casing running tools.; RIH w/ 8-5/8" 24# J-55 STC casing (Wash down jts 29 & 30) to +/-1673' (last jt), tagging firm. Prepare to wash down.					
	ACTIVITY PLANNED:	Cement surface casing / N/U & test well head & BOP / Drill out new formation				
	DAILY JOB COST:	\$21,769		TOTAL JOB COST:	\$150,344	
	TOTAL WELL COST:	\$150,344				

WELL: Pirate U 13-13 #4

Sep 8 2017	MD: 1,718	TVD: 1,718	FOOTAGE: 1,718	MW: 9.2	LB	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	Repair pipe ram seals				
	Wash & work down last jt of 8-5/8" csg. Note: pumping sweeps w/ detergent (rig wash) aided in landing csg). Set cst at 1712' (+/-6' fill);Circulate through swedge. Wiper plug not on location. Await delivery of wiper plug;PJSM; Spot Propetro cement trucks & R/U lines & head. M&P 550sx (181bbls) of 12.8# Pro-value C Lead at 1.85cuft/sx yield + 2% Extender + 1/4#/sx Flocele + 5% Salt & 225sx (64bbls) of 13.8#Premium C Tail at 1.6cuft/sx yield. + 1/4#/sx Flocele + 1.5#/sx Kolseal + 2% Accelerator. Good rtns, bump plug, CIP at 12:24hrs, 322sx (106bbls) cmt to surface. R/D cementers.;Cut & L/O 8-5/8" casing stub & bell nipple. N/U 11" 3M x 8-5/8" SOW & test to 800psi.;N/U 11" 3M stack, HCR, Kill lines, & choke lines. Function test BOPs;PJSM; R/U & begin testing BOP. Test blind rams & manifold to 250psi low / 1500psi high. Pipe ram test fail, (seal leaking). Test casing w/ blind rams to 1000psi for 30 min.;Accumulator contaminated w/ test water. C/O oil and refill. Open pipe rams & change oil on MP2. Technician changes seals on pipe rams & reassembles same. Flush contaminated oil F/ lines. Function pipe rams (driller side leaking). Technician gets new seal and fitting & installs same. Note: Kinney deliver 15FW loads / 20 Brine loads to reserve prior to MIRU. 12Loads FW to frac tanks.					
	ACTIVITY PLANNED:	Complete repair of pipe ram seals / Complete testing of BOPs / M/U BHA #2 / D/O cmt / Drill new formation				
	DAILY JOB COST:	\$90,250	TOTAL JOB COST:		\$240,594	
	TOTAL WELL COST:	\$240,594				
Sep 9 2017	MD: 1,897	TVD: 1,897	FOOTAGE: 179			PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	Drilling production hole ahead				
	PJSM; West Texas BOP technician / crew assembles pipe rams. Function tests same & tighten bolts on same.;Fix leaks on top drive, clean cellar & rig while waiting arrival of Monahans N/U tester;PJSM; R/U Monahans N/U BOP test lines. Attempt to test pipe rams, change seal on test plug twice. Trouble shoot issues why pressure not building for test. Find again that water back feeding down lines past pipe ram seals to accumulator.;PJSM; Flush contaminated oil from accumulator. Decision made to swap out pipe ram assembly for one at Savanna yard. N/D and remove pipe ram assembly F/ stack & N/U replacement assembly.;Torque down annular. C/O installed blind rams in body for pipe rams. Tighten ram doors, Set test plug & pressure up on rig pump to verify no fluid bleeding by pipe rams seals to accumulator (ok);Pressure test pipe rams & annular 250psi low / 1500psi high for 5 min w/ rig pump. L/O test plug & joint;M/U 7-7/9" bit, motor, & scribe MWD to motor. Install directional probe. SPT Trueshot tool. RIH & tag at 1665';Drill out cement & shoe track;Drill ahead F/ 1718'-1897'; WOB=25, RPM=75, PP=1820psi, 620GPM, Torq=5600					
	Note: Accumulated DT due to pipe ram seal issue is 21:00hrs 9/7 - 8:00hrs 9/8 (11hrs) / 13:00hrs 9/8 - 19:30hrs 9/8 (6.5hrs). Slides: 1768'-1775'; 1854'-1869'					
	ACTIVITY PLANNED:	Drill production hole ahead				
	DAILY JOB COST:	\$12,286	TOTAL JOB COST:		\$252,880	
	TOTAL WELL COST:	\$252,880				
Sep 10 2017	MD: 3,963	TVD: 3,963	FOOTAGE: 2,066	MW: 9.5	LB	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	Drilling ahead production hole				
	Drill ahead F/ 1897'-2340'; WOB=25Klbs, RPM=75, PP=2175psi, 644GPM, Torq=5600;Drill ahead F/ 2340'-2765'; WOB=25Klbs, RPM=75, PP=2220psi, 644GPM, Torq=5600;Rig service; Service generator. Note: Lost power to top drive & pits (shaker & agitators) 30min for rig service for pumps, top drive, & floor motor. Electrician called to address generator shut down. (30min DT);Drill ahead F/ 2765'-3016'; WOB=25Klbs, RPM=75, PP=2266psi, 644GPM, Torq=5400 Slide: 2887'-2897';Drill ahead F/ 3016'-3360'; WOB=26Klbs, RPM=75, PP=2450psi, 620GPM, Torq=5000;Drill ahead F/ 3360'-3747'; WOB=26Klbs, RPM=75, PP=2575psi, 620GPM, Torq=5110;Drill ahead F/ 3747'-3963'; WOB=26, RPM=75, PP=2580psi, 620GPM, Torq=5150 Slide: 3834'-3842'					
	Notes: Kinney Inc: Transferred (8) loads of brine F/ Pirate U 13-13 #3 to outer reserve ring. / Received 4273gal fuel F/ National Fuel (Synder, Tx) 325-573-4160 or Mike Nunley (Owner) 325-207-3431					
	ACTIVITY PLANNED:	Complete production hole / Circulate & POOH to run production casing				
	DAILY JOB COST:	\$21,714	TOTAL JOB COST:		\$274,594	
	TOTAL WELL COST:	\$274,594				
Sep 11 2017	MD: 5,020	TVD: 5,020	FOOTAGE: 1,057	MW: 10.0	LB	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan				PBTD:
	PRESENT OPERATIONS:	L/D BHA				
	Drill ahead F/ 3963'-4180'; WOB=26Klbs, RPM=75, PP=2580psi, 620GPM, Torq=5400;Drill ahead F/ 4180'-4393'; WOB=26Klbs, RPM=75, PP=2520psi, Torq=6000;Drilling ahead F/ 4393'-4609', WOB=27Klbs, RPM=75, PP=2590psi, Torq=6100;Rig service Slide: 4135'-4145';Drill ahead F/ 4609'-5020' TD; WOB=27Klbs, RPM=75, PP=2800psi, Torq=5500;CCM; Pump sweep & spot pill;POOH w/ Bit #2. Note: BHA got stuck in csg at 102'. M/U pump sub and circulate working pipe up. String free at 96'. Continue POOH. Possible cause of sticking is salt ring build up on bit, BHA looked good. Received 3501 gal F/ Blue Streak Note: Savanna unable to get rig movers scheduled for 9/12/17. Rig move scheduled for 9/13/17.					
	ACTIVITY PLANNED:	Finish L/D BHA / RIH w/ production csg & cmt same / N/U wellhead / R/D & prep to move				
	DAILY JOB COST:	\$35,964	TOTAL JOB COST:		\$310,558	
	TOTAL WELL COST:	\$310,558				

WELL: Pirate U 13-13 #4

Sep 12 2017	MD: 5,020	TVD: 5,020	FOOTAGE:	PTD: 5,000
	RIG SUPERVISOR:	John Sheridan		PBTD:
	PRESENT OPERATIONS:			
	DAILY JOB COST:	\$15,921	TOTAL JOB COST:	\$326,479
	TOTAL WELL COST:	\$326,479		