RODSTAR 3.6.33

Company:Sandia Data Well:Well 2

Disk file:Sandia Data Well 2(FG).rsvx

Comment: Test Number: 02. Test Date Oct, 1995

¬ Theta Oilfield Services, Inc. Norris/AOT DAL 432-561-8101 (gotheta.com)

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Date:9/12/2014

INPUT DATA				CALCULATED RESULTS						
Strokes per minute: Run time (hrs/day): Tubing pres. (psi): Casing pres. (psi):	24.0 60 76	Fluid level (ft from surface): 7227 (ft over pump): 428 Stuf.box fr. (lbs): 100 Pol. rod. diam. 1.25"		Production rate (bfpd): Oil production (BOPD): Strokes per minute: System eff. (Motor->Pump): Permissible load HP: Fluid load on pump (lbs):		266 27 8.2 40% 70.7 571	Min. pol MPRL/F Unit stru	Peak pol. pod load (lbs): Min. pol. rod load (lbs): MPRL/PPRL: Unit struct. loading: PRHP / PLHP:		
Fluid Properties		Motor & Power Meter		Polished rod HP:		26.9	, .	Buoyant rod weight (lbs): N/No: .376 , Fo/SKr: .3		
Water cut: Water sp. gravity: Oil API gravity: Fluid sp. gravity:	1.055 E		Detent \$.06/KWH NEMA D		rime mover size var. not included)			BALANCED	304	
				NEMA D m Single/dou Multicylind	ble cyl. engine:		50 HP 40 HP 50 HP	50 HP 40 HP 50 HP		
Pumping Unit:Lufkin Mark II					nalysis and elect	ricity	BALANCED (Min. Energy)	BALANCED (Min Torq)		
API Size: M-640-305 Crank hole number: Calculated stroke ler Crank rotation with w Max. cb moment (M i Structural unbalance Crank offset angle (d	gth (in): rell to right: n-lbs): (lbs):	WL26) # 1 (out of 3) 144.1 CCW Unknown -4300 23.0		Gearbox lo Cyclic load Max. cb mo Counterbal Daily electr Monthly ele	torq.(M in-lbs): ading: factor: ment (M in-lbs): lance effect(lbs): .use (Kwh/Day): ectric bill: per bbl fluid:		560 87.5% 1.319 1357.37 17238 638 \$1167 \$0.144 \$1.438	457 71.3% 1.308 1253.67 15592 659 \$1206 \$0.149 \$1.486		
Tubing And Pump Information				Tubing, Pump And Plunger Calculations						
Tubing O.D. (in): 2.875 Tubing I.D. (in): 2.441 Pump depth (ft): 7655 Pump conditions: Full Pump load adj. (lbs): 0.0 Pump type: Insert Pump vol. efficiency: 85% Plunger size (in): 1.5 Pump friction (lbs): 200.0					Tubing stretch (in): Prod. loss due to tubing stretch (bfpd): Gross pump stroke (in): Pump spacing (in. from bottom): Minimum pump length (ft): Recommended plunger length (ft): 1.8 3.4 47.4 94.6 Minimum pump length (ft): 54.6 6.0					
Rod string design					Rod string stress analysis (service factor: 1)					
Diameter (inches)	Rod Grade	Length (ft)	Min. Tensile Strength (psi)	Stress Load %	Top Maximum Stress (psi)	Top Minir Stress (բ		inimum S s (psi)	tress Calc. Method	
+ 1.25 + 1 +requires slimhole coup	Norris FG C (API) lings.	4362 3293	N/A 90000	63.2% 74.2%	16761 18470	4601 2622		578 55	Norris FG API MG	

NOTE: Displayed bottom minimum stress calculations do not include buoyancy effects (top minimum and maximum stresses always include buoyancy).



