Company:Sandia Data Well:Well 5B

Disk file:Sandia Data Well 5B (SnapOn).rsdx

Comment:Test Number: 5B. Test Date July/Aug 1996

⁻ Theta Oilfield Services, Inc. Norris/AOT DAL 432-561-8101

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INPUT DATA						CALCULATED RESULTS					
Strokes per minute: Run time (hrs/day): Tubing pres. (psi): Casing pres. (psi):	24.0 (205 (180 S	luid level ft from surfa ft over pump tuf.box fr. (ll ol. rod. dian	os): 4767 os): 100	7	Production rate (bfpd): Oil production (BOPD): Strokes per minute: System eff. (Motor->Pump): Permissible load HP: Fluid load on pump (lbs):		52	5	Peak pol. pod l Min. pol. rod lo MPRL/PPRL: Unit struct. load PRHP / PLHP:	ad (lbs):	15334 8214 0.536 50% 0.17
Fluid Properties	M	Motor & Power Meter			Fluid level tvd (ft from surface):			Buoyant rod we N/No: .139 ,			
Water cut: Water sp. gravity: Oil API gravity:	1.01 E 35.0 T	ower meter lect. cost: ype:	Detent \$.06/KWH NEMA D		Polished rod HP: Required prime mover size (speed var. not included)		8.8	BALA	ANCED Torq)	F0/5KI	021
Fluid sp. gravity:	0.987				NEMA D m Single/dou Multicylind	ble cyl. engine:		2	25 HP 25 HP 25 HP		
Pumping Unit:Lufkin Conventional - New					Torque analysis and electricity BALANCED (Min Torq)						
API Size: C-640-305-168 (Unit ID: CL10) Crank hole number: # 1 (out of 4) Calculated stroke length (in): 169.8 Crank rotation with well to right: CCW Max. cb moment (M in-lbs): Unknown Structural unbalance (lbs): -1500 Crank offset angle (degrees): 0.0				Peak g'box torq.(M in-lbs): Gearbox loading: Cyclic load factor: Max. cb moment (M in-lbs): Counterbalance effect(lbs): Daily electr.use (Kwh/Day): Monthly electric bill: Electr.cost per bbl fluid: Electr.cost per bbl oil: \$0.042							
Tubing And Pump Information					Tubing, Pump And Plunger Calculations						
Tubing O.D. (in): 2.875 Tubing I.D. (in): 2.441 Pump depth (ft): 5060 Pump conditions: Full Pump type: Insert Plunger size (in): 2 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): 4.0					
					Rod string stress analysis (service factor: 1)						
Diameter (inches)	Rod Grade	Length (ft)	Min. Ten. Str. (psi)	Fric. Coeff	Stress Load %	Top Maximum Stress (psi)	Top Mir Stress		Bot. Minimum Stress (psi)	# Gı	ides/Rod
+ 1	D (API)	1510	115000	0.2	36.5%	19396	105	85	6549		0

90000 @ stress calculations based on elevator neck of 7/8 (for 1.25 sinker bars) or 1 (for other sinker bars). +requires slimhole couplings.

115000

115000

1600

1700

250

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

0.2

0.3

0.3

36.0%

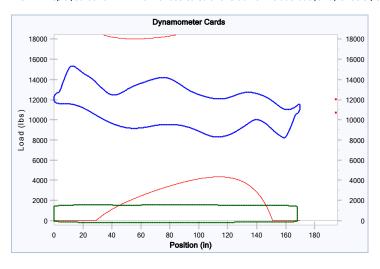
33.9%

13.7%

17232

14220

3005



D (API)

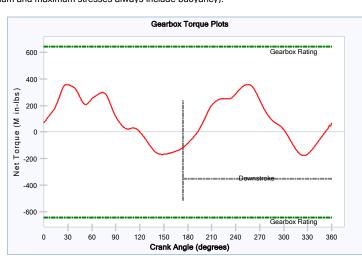
D (API)

C (API. SB)

0.875

0.75

@ 1.5



4355

1176

-113

8163

5264

-81

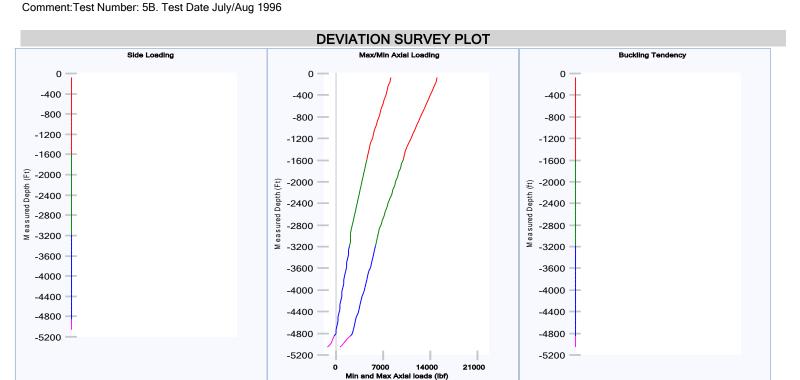
0 2 4

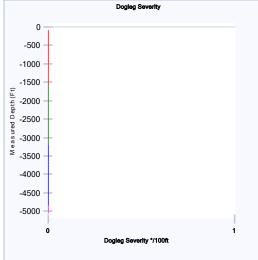
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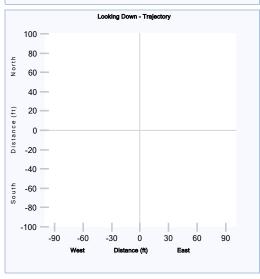
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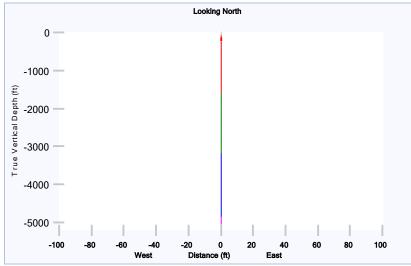
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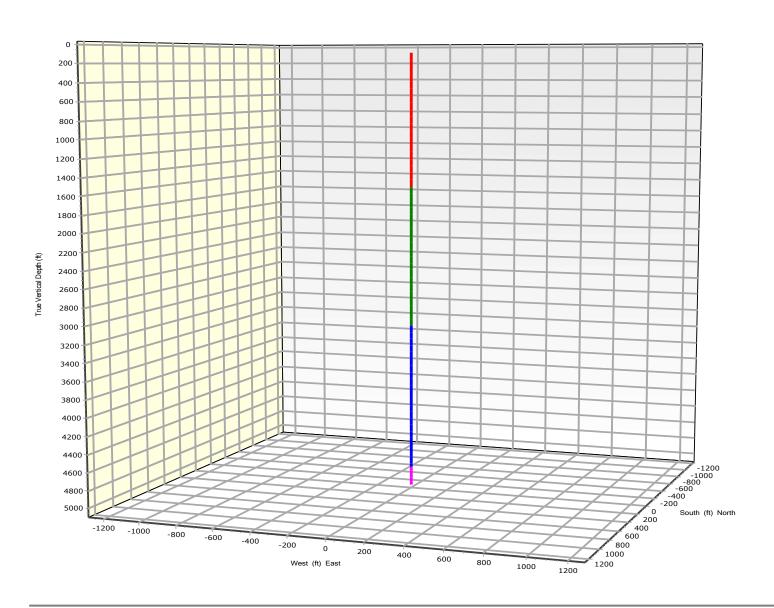




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DEVIATION SURVEY PLOT



Rod Diameters 1" 7/8" 3/4" 1 1/2" # Guides/Rod: 0 0 2 4

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MEASURED DEVIATION SURVEY											
MD (ft)	Inclination (°)	Azimuth (°)	Dogleg sev. °/100ft	TVD (ft)	N-S (ft)	E-W (ft)					
0	0	0	0	0	0	0					
2000	0	0									
4000	0	0									
9000	0	0									
11000	0	0									