



Terra Energy Partners, LLC

Rulison, Garfield County, CO

BHA Proposal for NR 23-3 Pad, NR 332-4, Production BHA #2

Job Number: 220043

Job Number: 220043	Region: Colorado, U.S.A.	Lease/Block:
Customer: Terra Energy Partners, LLC	Field: Rulison	UWI No.:
Well Name: NR 332-4	Project: Garfield County, CO	BHA Type: Steerable Slick
Rig Name: H&P 329	Structure: NR 23-3 Pad	

Motor Properties

Description: 7 1/4" FBH - 1.75° 6:7 4.6 Stage		Motor Type: Motor	Manufacturer: Leam	Model: 725XD	Serial Number: 7251-328	Lobe/Stage: 6:7/4.6
Mud Type:		Stabilizer Type:		Rubber Type:		Fit Type:
Pad OD: 7 3/8"	NB Stabilizer: 0	Bit to Bend: 4.94ft	Bend Angle: 1.75°	Pressure Drop: 0psi	Rev. Rate: 0.18Rev/gal(US)	Rotor Jet: 032's
Motor Footage: 0.00ft	Below Rotary Hours: 0.00hrs	Circulating Hours: 0.00hrs	Rotating Footage: 0.00ft	Rotating Hours: 0.00hrs	Sliding Footage: 0.00ft	Sliding Hours: 0.00hrs
Proposed Build Rate: 7.00°/100ft	Actual Build Rate: 0.00°/100ft	Date/Time In: 8/6/2022 12:00 AM	Date/Time Out:	Number of Stalls: 0	Stall Duration: 0.00mins	Extended Motor: Yes
Motor Failed: No		Condition: New - In w/ 0.00 Hrs. Out w/ Hrs.				

Bit Record

Bit Number / Bit Run: 2 / 1	Description: 8 3/4" Smith XS616	Manufacturer: Smith	Model: XS616 676 15A 0403	Type: PDC Bit	Serial Number: JV9709
IADC#:	Bit Diameter: 8 3/4"	TFA: 1.608in ²	Jets: 4 x 18, 2 x 20	Condition:	
Bit Hours: 0.00Hrs.	Bit Footage: 0.00ft	Grade:	Reason for pulling out of hole:		

Drillstring Components (Production BHA #2)

Item #	Description	Vendor	Serial No.	Outside Diameter (")	Inside Diameter (")	Fishing Neck OD (")	Fishing Neck Length (ft)	Top Connection	Length (ft)	Total Length (ft)
1	8 3/4" Smith XS616	Smith	JV9709	8 3/4	0	0	0.00	4 1/2 REGP	1.00	1.00
2	7 1/4" FBH - 1.75° 6:7 4.6 Stage	Leam	7251-328	7 1/4	0	0	0.00	NC 50 (4 1/2 IF)	36.33	37.33
3	6 1/2" NMPC	KLX	AMPC 6034	6 1/2	3 1/4	0	0.00	NC 50 (4 1/2 IF)	13.69	51.02
4	6 1/2" NMDC	KLX	AMDC 6049	6 3/8	3 5/16	0	0.00	NC 50 (4 1/2 IF)	28.22	79.24
5	6 1/2" Gap Sub	KLX	650-111	6 3/8	3 1/8	0	0.00	NC 50 (4 1/2 IF)	5.17	84.41
6	6 1/2" NMPC	KLX	AMPC 6018	6 7/16	3 1/4	0	0.00	NC 50 (4 1/2 IF)	10.55	94.96
7	6 1/2" NMDC	KLX	AMDC 6039	6 1/2	3 1/4	0	0.00	NC 50 (4 1/2 IF)	27.69	122.65
8	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	29.69	152.34
9	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	29.58	181.92
10	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	30.00	211.92
11	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	29.08	241.00
12	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	30.26	271.26
13	6 3/4" DC - 101.00 lb/ft	RIG	RIG	6 3/4	2.813	0	0.00	NC 50 (4 1/2 IF)	29.27	300.53
14	5" HWDP (24 Joints)	RIG	RIG	5	3	0	0.00	NC 50 (4 1/2 IF)	743.41	1,043.94



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Drillstring Discussion

New Leam FBH @ 1.75, 6:7, 4.6 Stage w/ Smith XS616 w/ 2 x 20's, 4 x 18's TFA = 1.608
Flow Range: 400-750 GPM, Max Diff: 1068, Stall Diff: 1602
Rotary: 15-60 RPM / 0.18 RPG
Previous Runs D&C: 0.00
This Runs D&C:
Cumulative D&C:
BHA Weight: 72,220 lbs.

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