| - | DAILY | |
 |

 | -
 | | n No. :
33° 18.05

 | <u>СК1</u> |
 |
 | xp. No. : | | | |
 | | | t No. : | | 44 | ~ |
|--|---|--
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--|--
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---|--
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---	--	---	--
--	--	------------------------------------	--
	@24:00	4,989.0	
 | 21.5 mbs

 | P
 | Lat.
rogress : | 0.0

 | m | Drilling/Coring
 |
 | g Hrs. : | 0.00 hrs | 67.5 mBRT
Last BOP P | T:11/* | MSL : 2
15/18
15/18
 | _ | ext BOP PT: | | 12/6/18
11/22/18 | /Nov/2018 | 8 |
| | | of Operation | on 19
 | 21.5 mbs
-Nov :

 | Continu
 | | 3-1/2" pilot

 | |
 | 22.50 mbsf
Dirculation
 | | mBRT)
Is up. Wiper t | Last BOP F
rip w/NSD to | | | |
 | _ | ext BOP FT:
st Glycol 35g | gal Inj. | 11/13 | | |
| | sent Operati
ne Breakdov
To | |
 | -Nov :
19-Nov

 |)
 | e tor rea | ming dowr

 | 1. |
 |
 | | Detail of (| Desertise | |
 | | | teter below | | ne | |
| 0:00 | 6:15 | 6:15 | DRL
 | 1.1

 |
 | |

 | | T to 4,940m
 |
 | | | · | | | |
 | | | | | | |
| | | |
 |

 |
 | SD⟩Ob | serve pres

 | sure drop | from 17MPa
 | a to 7MPa
 | while NSD | , 480gpm x 1
manifold ope | rating by AF | | | |
 | | | | | | |
| | | |
 |

 |
 | For | equalizing

 | pressure | between N
 | SD and sta
 | nd pipe, a | not able to ind
djust flow by f | low control v | |
 | | | | | | |
| 6:15 | 10:15 | 4:00 | DRL
 | 4,963.0

 | Drill 8-1
 | /2" pilo | hole from

 | 4,940BR | T to 4,963m
 | BRT.
 | | pb Fracseal | | | | |
 | | | | | | |
| | | |
 | ļ

 | Me
 | anwhile | e: Boost Ri

 | ser w/400 |)gpm x 3.8M
 | Pa, After s
 | | Motor 134 rp
5m3 of 12p | | (Nm, 480gpr | n x 16.7N
 | 1Pa, Ial | ke survey | #5 | | | |
| 10:15 | 14:30 | 4:15 | DRL
 | 4,969.0

 | Sli
 | ding pa | rameter: M

 | TF 150de | T to 4,969ml
eg. WOB:50-
 | 80kN, Mot
 | or 134rpm | 480gpm x 14 | I.9MPa, Tak | e survey #6 | | |
 | | | | | | |
| | | |
 |

 | ٨
 | Wh | ile fill up th

 | e stand b | y fill up line(
 | Keep open
 | valve 2mi | D manifold o
nutes), stand | pipe pressu | re not able to | o increas
 | e as sar | me as #3 | connecti | on | | |
| | | |
 |

 | Me
 | |

 | |
 |
 | | djust flow by f
opb Fracseal | low control v | alve. Stand | pipe pres
 | sure in | crease to | 15MPa | :OK | | |
| 14:30 | 19:15 | 4:45 | DRL
 | 4,989.0

 |
 | |

 | | T to 4,989m
0kN, 194rpm
 |
 | m, Motor | 134 rpm) x 15 | -16kNm, 48 | 0gpm x 16.5 | MPa
 | | Survey | summar
MD | | Azimuth | |
| | | |
 |

 |
 | |

 | |
 |
 | | as end of slid | ng depth: O | K |
 | | | (m)
4864.7 | (deg)
3.7 | (deg)
142.94 | |
| 19:15 | 23:00 | 3:45 | C&C
 | 4,989.0

 | Circulat
 | ion and | bottoms u
3 of 12ppb

 | р |
 |
 | | | | |
 | | #2*
#3 | 4871.0
4887.1 | 4.01
4.15 | 145.27 | |
| 23:00 | 24:00 | 1:00 | W&R
 | 4 989 0

 | Me
 | anwhile | : (19:30-1

 | 9:40)Con | duct downlin
89mBRT to
 |
 | | x 12.5-14.0N | IPa: OK | | | |
 | | #4 | 4903.7
4942.1 | 4.08 | 138.59 | |
| | | |
 |

 | Wo
 | ork pipe |

 | <:3,250kh | V(up), 3,180
 |
 | | otor 134 rpm |), 480gpm x | 15.0MPa | | |
 | | #6 | 4948.0
4968.8 | 2.03 | 312.75 | |
| | | |
 |

 |
 | SD>Ob | serve pres

 | sure stab |
 |
 | | y AFGlobal e | ngineer. | | | |
 | | | rve magi | | | 9. |
| | | |
 |

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 | |

 | CONTROL | aive, Differe
 | nce 17 to
 | 4.5MPa: 0 | лк.
 | | |
 | | | | | | |
| | | |
 | -

 |
 | | 5-15:30) A

 | | tatus, Port si
 | de #1 gen
 | erator mair | itenance . | | | | |
 | | | | | | |
| | | |
 |

 | [Di
 | | net Weigh
ditch magi

 | | t: 7.6kg (tota
 | ll 110.3kg)
 | | | | |
 | | | | | | |
| Tir | me Breakdo | wn (00:00 - | 06:00 on
 |

 |)*Th
 | ne data or | n 00:00 - 06:0

 | 0 is unofficia | al
 |
 | | | | |
 | | | | | | |
| From
0:00 | то
1:15 | Hrs.
1:15 | Code
W&R
 | Depth(mBRT)

 | Continu
 | e wiper | trip w/NSI

 | D from 4.9 | 935mBRT to
 | 4,886mBF
 | т | Detail of (| Operation | | | |
 | | | | | | _ |
| | | |
 |

 | Wo
 | ork pipe | 2times. HI

 | <:3,360kM |
 |
 | | otor 134 rpm |), 480gpm x | 11.0MPa |
 | | | | | | |
| 1:15 | 1:45 | 0:30 | W&R
 | 4,989.0

 | (N)
 | SD⟩Ob | serve pres

 | sure stab |
 |
 | | y AFGlobal e | ngineer. (Ac | ljust by MP# | 2, Differe
 | nce 12. | 0 to 9.0M | Pa): OK | | | |
| 1.15 | 1.45 | 0.50 | war
 | 4,303.0

 | Wo
 | ork pipe | 2times. HI

 | <:3,320kM | V(up), 3,120
 | kN(down),
 | 134rpm (N | otor 134 rpm
N at 4,873m | | | orina otri
 | an Dial | | with FO | | ataaliad | |
| 1:45 | 6:00 | 4:15 | SP
 | 4,989.0

 | Work or
 | n pipe a | t 4,873mB

 | RT. |
 |
 | | | | | ening sui
 | IG. PICK | cup sunig | y witti 50 | | stackeu. | |
| | | |
 |

 | Pic
 | k up to | 4,850mBF

 | T and lov | ver string wit
 | hout rotati
 | on and pur | o for 2 times a
nping. Take w | eight at 200 | kN at 4,875r | nBRT.
 | | | | | | |
| | | |
 |

 | Re
 | am dov | n with 30r

 | pm x 12k | Nm and 200
 | gpm x 5.0M
 | IPa. Take | ight at 4,869r
weight at 4,8 | 3mBRT. Pic | k up string. | | |
 | | | | | | |
| | | |
 |

 |
 | |

 | |
 |
 | | weight 200kN
same depth. | | RT. Pick up | string.
 | | | | | | |
| | | |
 |

 |
 | |

 | |
 |
 | | through 4,87
81-4,884mBI | | r locate from | 1 4.873-4
 | 876mB | RT) for 2 | Otimes. C | Confirm I | no drag/o | overpu |
| | | |
 |

 | Re
 | ciproca | te with 60r

 | pm x 14k | N and 100gp
 | om x 3.3MF
 | a from 4,8 | 70-4,885mBR
RT for 2 times | RT for 3times | s. Confirm n | o drag/ov
 | erpull. | | | | | |
| | | |
 |

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 | |

 | | DP UD-165 s
 |
 | | | | | | |
 | | | | | | |
| Da D | | 1 |
 |

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 | | -

 | |
 |
 | eam down | (on going). | | | | |
 | | | | | | |
| Bit Record @
Bit Siz | 170 | |
 |

 |
 | |

 | | Meter-
 | 1
 | | | Total Rev. | |
 | | Dull Cond | ition | | | |
| Bit Siz
No. (ir | ize M | - | /pe c
 | ode

 | No. N
 | ozzles
x20/32 | Depth (
From
4,867.0

 | | Meter-
age
122.0
 | Hrs.
25.31
 | WOB (knt
Min. Max
0 100 | rpm
Min. Max. | Total Rev.
(kern)
235.80 | Inner | Out
 | er Dull | | ition
B | G | 0.D. | RP |
| Bit Si:
No. (ir
3 8. | ize M
in)
8.5 Sr | | /pe c
 | ode S

 | No. N
 | lozzles | Depth (
From

 | mBRT)
To | age
 | Hrs.
 | WOB (knt
Min. Max | rpm
Min. Max. | (kern) | Inner | Out
 | er Dull | Loc. | В | G | | RP |
| Bit Si:
No. (ir
3 8. | ize M
in)
8.5 Sr | 8-1/2" Bit x I | /pe C
R+N
Motor (w/1.5
 | ode Si
117 RJ

 | No. N
8198 3
x 8-1/8" Sta
 | ozzles
x20/32
b (SLB) x | Depth (
From
4,867.0
Float Sub w/ F

 | mBRT)
To
4,989.0
oat x 6-3/4" I | age
122.0
Pony NMDC x XC
 | Hrs.
25.31
D x Telescope 6
 | WOB (knt
Min. Max
0 100
75 x 6-3/4" Nt | rpm
Min. Max. | (kern)
235.80
D x 6-3/4" DC (3 | stds) x 6-1/2" Jan | x
 | | Loc. | B
. (knt) @24 | G
E:00hrs | 4,935.0 | |
| Bit Siz
No. (ii
3 8.
BHA Record | ize M
8.5 Sn
1 @24:00 | 8-1/2" Bit x I | /pe C
R+N
Motor (w/1.5
 | ode Si
117 RJ

 | No. N
8198 3
x 8-1/8" Sta
 | ozzles
x20/32
b (SLB) x | Depth (
From
4,867.0
Float Sub w/ F

 | mBRT)
To
4,989.0
oat x 6-3/4" I | age
122.0
Pony NMDC x XC
 | Hrs.
25.31
D x Telescope 6
 | WOB (knt
Min. Max
0 100
75 x 6-3/4" Nt | rpm
:. Min. Max.
) 134 174
IDC x 6-3/4* UBH | (kern)
235.80
D x 6-3/4" DC (3 | stds) x 6-1/2" Jan | x
 | | Loc.
Hook Wt | B
. (knt) @24
d | G
k:00hrs | 4,935.0 | mBRT
3,200 |
| Bit Siz
No. (ii
3 8.
BHA Record
#10
Mud Properti | ize M
5.5 Sn
1 @24:00
8.5" KO
ties @24:00 | 8-1/2" Bit x I | /pe
R+N
Motor (w/1.5
2 jts) × XO x
 | code Si 117 RJ ° bent angle) 5.68" HWDP

 | No. N
8198 3
x 8-1/8" Sta
(3 stds) x X
 | lozzles
x20/32
b (SLB) x 1
O x 5-1/2*
Gel St. | Depth (
From
4,867.0
Float Sub w/ Fl
DP S-140 (25

 | mBRT)
To
4,989.0
loat x 6-3/4" f
stds) x XO x | age
122.0
Pony NMDC x XC
5-1/2" DP S-150
 | Hrs.
25.31
0 x Telescope 6
(49 stds) x XC
 | WOB (knt
Min. Maz
0 100
75 x 6-3/4" NI
x 6-5/8" DP Z | rpm Min. Max. 134 174 MDC x 6-3/4° UBH 140 (22 stds) x 6-3/4° UBH Temp | (kern)
235.80
D x 6-3/4" DC (3
5/8" DP UD-165 | stds) x 6-1/2" Jai
x 6-5/8" DP UD-1 | x
 | | I Loc.
Hook Wt
Hook Loa
BHA
Below HV
below Jar | B
. (knt) @24
d
VDP
raveling blo | | 4,935.0 | mBRT
3,200
220
150 |
| Bit Siz
No. (if
3 8.
BHA Record
#10 | ize M
in) M
1@24:00
8.5" KO | 8-1/2" Bit x I | /pe C
R+N
Motor (w/1.5
 | Solution Solution 1117 RJ ** bent angle) 5.68" HWDP 5.68" HWDP YV

 | No. N
8198 3
x 8-1/8" Sta
(3 stds) x X
 | lozzles
x20/32
b (SLB) x
O x 5-1/2"
Gel St.
0", 10") | Depth (
From
4,867.0
Float Sub w/ F

 | mBRT)
To
4,989.0
loat x 6-3/4" f
stds) x XO x | age
122.0
Pony NMDC x XC
5-1/2' DP S-150
Cl- San
 | Hrs.
25.31
D x Telescope (
(49 stds) x XC
d Oil Solid
 | WOB (knt
Min. Max
0 100
75 x 6-3/4" Nt
x 6-5/8" DP Z | rpm Min. Max. 134 174 MDC x 6-3/4° UBH 140 (22 stds) x 6- 120 (22 stds) x 6- K+ Cut K+ | (kern)
235.80
D x 6-3/4° DC (3
5/8° DP UD-165 | stds) x 6-1/2" Jan
x 6-5/8" DP UD-1
LGS | 7 x
65 with NSD
 | | Hook Wt
Hook Loa
BHA
Below HV
below Jar
HPS & T
Hook + F
Hook blo | B
. (knt) @24
d
VDP
raveling blo
RRT
ck | | 4,935.0 | mBRT
3,200
220
150
120 |
| Bit Si:
No. (ii
3 8.
BHA Record
#10
Mud Properti
Mud Properti
KNPP
KNPP | ize M
in) M
i@24:00
8.5° KO
ites @24:00
Time
5:00
17:00 | nith XF 8-1/2" Bit x I 6-3/4" DC (. 6-3/4" DC (. | Key C Wotor (w/1.5.2 jts) x XO x XO x MW Vis 1.37 57 1.37 58
 | Solde Suit 117 RJ * bent angle) 5.68" HWDP * Device 9000000000000000000000000000000000000

 | No. N 8198 3 x 8-1/8" Stat 3 (3 stds) x X 4 6rpm (1) 10 9 12 9
 | lozzles
x20/32
b (SLB) x
O x 5-1/2"
Gel St.
(0", 10')
12
13 | Depth (From 4,867.0 - Float Sub w/ Fl - DP S-140 (25 - API Cake 2.7 0.6 2.6 0.6

 | mBRT)
To
4,989.0
0at x 6-3/4" f
stds) x XO x
pH Pf | age 122.0 Pony NMDC x XC 5-1/2" DP S-150 CI- 135,000 0.40 138,000
 | Hrs.
25.31
25.31
2 x Telescope 6
(49 stds) x XC
4 Oit Solid
0 16.5
0 16.5
 | WOB (knt; Min. Max 0 100 75 x 6-3/4" NIX NP Z MBC In 0.25 0.25 15 | rpm Min. Max. 1 334 174 IDC x 6-34* UBH 140 (22 stds) x 6- Temp K+ Out K+ 11 22,500 | (kern)
235.80
0 x 6-3/4" DC (3
5/8" DP UD-165
5/8" DP UD-165
0.42
0.42
0.42
2.30 | stds) x 6-1/2" Jan
x 6-5/8" DP UD-1
LGS | 7 x
65 with NSD
FIT 20/40 (m
 | | I Loc.
Hook Wt
Hook Loa
BHA
Below HV
below Jar
HOS & T
Hook Ho
Jar Rota
Today
Cutting s | B
. (knt) @24
d
vDP
raveling bk
RRT
ick
ting time
-
ikip @24:00 | S/N: -
Total | 4,935.0 | mBRT
3,200
220
150
120
600
-
-
hrs |
| Bit Si: No. (iii 3 8. BHA Record #10 #10 #10 Mud Properti Mud Type KNPP KNPP ulud Pumpa : 14 14 | ize M
in) S Sr
1@24:00
8.5" KO
ties @24:00
Time
5:00
17:00 | Nith XF '8-1/2" Bit x 1 6-3/4" DC (0-3/4" DC (0 Depth (mBRT) 4,936 4,980 | K+N K Motor (w/1.5 1.37 1.37 57 1.37 58 5.00 Photom
 | Side Side 117 RJ 117 RJ * bent angle) 5.68* HWDP 5.68* HWDP 21 30 23 33 gallon/stroker Anr

 | No. N 8198 3 x 8-1/8" Stat 3 (3 stds) x X 4 6rpm (1) 10 9 12 9
 | lozzles
x20/32
b (SLB) x 0
0 x 5-1/2"
Gel St.
0", 10")
12
13
Perso
CDEX | Depth (
From (
4.867.0
Float Sub w/ F
DP S-140 (25
DP S-140 (25
Cake
2.7 0.6
2.6 0.6
0.6
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

 | mBRT)
To
4,989.0
stds) x XO x
pH Pf
10.1 0.2
10.0 0.2 | age
122.0
Pony NMDC x X(
5-1/2" DP S-150
CI- Sanu-
135,000 0.4(
138,000 0.50
Mud Material:
Item
 | Hrs.
25.31
25.31
2 x Telescope 6
(49 stds) x XC
4 Oit Solid
0 16.5
0 16.5
 | WOB (knt; Min. Max 0 100 75 x 6-3/4" NIX NP Z MBC In 0.25 0.25 15 | rpm Min. Max. 1 334 174 IDC x 6-34* UBH 140 (22 stds) x 6- Temp K+ Out K+ 11 22,500 | (kern)
235.80
D x 6-3/4" DC (3
5/8" DP UD-165
Kernic State
0.42
0.42
0.47
2.30
(unit: kg) | stds) x 6-1/2" Jan
6-5/8" DP UD-1
LGS
2.10
2.00 | 7 x
65 with NSD
FIT 20/40 (m
 | | Hook Wt
Hook Loa
BHA
Below HV
below Jar
HOS & T
Hook HC
Jar Rota
Today
Cuting s
Er | B
(knt) @24
d
vDP
raveling blo
RRT
cck
ting time
 | S/N: -
Total | 4,935.0 | mBRT
3,200
220
150
120
600
- |
| Bit Si: No. (iii 3 8. BHA Record #10 #10 #10 Mud Properti Mud Type KNPP KNPP Mud Pumps : 14 No. Liner 1 | ize M
in) M
1.5 Sr
1@24:00
8.5" KO
100
100
17:00
4P-220 @
r Size SI | Depth Depth (mBRT) 4.930 4.980 980 PM G 48 2.2 | /pe C R+N
 | Side Side 117 RJ 117 RJ * bent angle) 5.58* HWDP 5.58* HWDP

 | No. N
8198 3
(3 stds) × X
6rpm (1
10 9
12 9
(297%)
. Vel.
(min)
 | lozzles
x20/32
b (SLB) x
O x 5-1/2*
Gel St.
(0*, 10*)
12
13
Perso
CDEX
MQJ (0 | Depth (
From (
4.867.0
Float Sub w/ F
DP S-140 (25
DP S-140 (25
Cake
2.7 0.6
2.6 0.6
0.6
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

 | mBRT)
To
4,989.0
i
oat x 6-3/4" 1
stds) x XO x
pH Pf
10.1 0.2
10.0 0.2
10.0 0.2
10.9
1 | age 122.0 Pony NMDC x XC 5-1/2" DP S-150 CI- 135,000 0.4C 135,000 Mud Material:
 | Hrs.
25.31
25.31
2 X Telescope (
(49 stds) x XO
4 Oil Solid
1 6.5
0 1 6.5
0 1 6.5
0 5 0 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm Min. Max. 134 174 IDC x 6.3/4" UBH Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- | (kern)
235.80
D x 6-3/4° DC (3
5/8° DP UD-165
0.42 3.14
0.42 3.14
0.47 2.30
(unit: kg) | stds) x 6-1/2" Jan
k 6-5/8" DP UD-1
LGS
2.10
2.00
ck
500 | 7 x
65 with NSD
FIT 20/40 (m
 | | I Loc.
Hook Wt
Hook Loa
BHA
Below HV
below Jar
HOok HC
Jar Rota
Today
Cutting s
E | B
(knt) @24
d
vDP
raveling blo
RRT
cck
ting time
 | S/N: -
Total
D
Fu
1 | 4,935.0 1 | mBRT
3,200
220
150
120
600
-
-
hrs
Total |
| Bit Si: No. (ii 3 8. BHA Record #10 #10 #10 Mud Propertit Mud Type KNPP KNPP Mud Pumps : 14 No. Liner 1 6 2 3 6 | ize M in) .5 Sn (@24.00) 8.5" KO 8.5" KO ites @24.00 Time 5:00 17:00 7:00 7:00 r Size SI Si 5" 4 500 5" 4 55" | nith XF 8-1/2° Bit x I 6-3/4° DC (6-3/4° DC (6-3/4° DC (0 4,936 4,936 4,980 PM G 48 2-30 30 44 82 2-30 | /pe C R+N
 | Socie Socie 117 RJ 117 RJ ° bent angle) 5.68° HWDP 5.68° HWDP 221 221 30 223 33 i gallon/stroke ress. Ann Ann MPa) (m

 | No. N
8198 3
(3 stds) × X
6rpm (1
10 9
12 9
(297%)
. Vel.
(min)
 | lozzles
x20/32
b (SLB) x
O x 5-1/2*
Gel St.
(0*, 10*)
12
13
Perso
CDEX
MQJ (0 | Depth
From
4,867.0
Float Sub w/ Fl
DP S-140 (25
API
2.6 0.6
2.6 0.6
0
0.0
0
0
0
0
0
0
0
0
0
0
0
0
0
0
0

 | mBRT)
To
4,989.0
i
oat x 6-3/4* f
etds) x XO x
pH Pf
10.1 0.2
10.0 0.2
10.99 | age age 122.0 122.0 Pony NMDC x XC 5.12" DP S-150 Ci- Sam 135,000 0.4C Mud Materiali Item Barite (Bulk) Caustic Soda Lime Soda Ash
 | Hrs.
25.31
2 × Telescope (
(49 stds) × XC
4 Oil Solid
1 16.5
1 16.5
5 on Board @
 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm Min. Max. 134 174 IDC x 6.3/4" UBH Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- | (ken)
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5/8 ² DP UD-165
(unit: kg)
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2.00 | FIT 20/40 (m
0 min 5m
 | m) | I Loc.
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Status
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Injection | B
(knt) @24
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raveling blo
RRT
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-
s
4:00 | S/N: -
Total
D
Fu
1 | 4,935.0 | mBRT
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220
150
120
600
-
-
hrs
Total
32 |
| Bit Si; No. (ii (iii) (iii) 3 8. BHA Record #10 #10 #10 Mud Properti Mud Type KNPP KNPP Mud Pumps : 14 No. Liner 1 6 2 6"(Boo 3 Geologic In From From | ize M in) 5 Sn i.5 Sn Sn i@24:00 8.5° KO 8.5° KO ities @24:00 Time 5:00 ities @24:00 Time 5:00 if:r:00 17:00 17:00 if:r:size Si Si ps" 4 poster) 8 p" 4 formation (To | Depth 0 | /pe C X+N
 | Si Si 117 RJ 118 RJ * bent angle) 5.68* HWDP • PV 21 30 23 33 gallon/stroke Anr RPa (m 7.0 51 cuttings Cuttings

 | No. N 8198 3 x 8-1/8: State 3 x (3 stds) × X Grpm (1 10 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 14 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 40 10
 | lozzles
x20/32
b (SLB) x
0 x 5-1/2*
Gel St.
0*, 10*)
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CDEX
MQJ (
MQJ (
MQJ)
MQJ (| Depth (
From
4,867.0
Float Sub w/ Fl
DP S-140 (25
DP S-140 (25
C

 | mBRT)
To
4,989.0
ooat x 6-3/4" 1
stds) x XO x
pH Pf
10.1 0.2
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2 | age age 122.0 122.0 Pony NMDC x XC 51/2 DP S-150 CI- Sam 135,000 0.4C 138,000 0.4C Ilsem Barite (Bulk) Caustic Soda Lime Soda Ash Caustic Potat Tel-Polymer C Potat
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(49 stds) x XC
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16. | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm Min. Max. 134 174 IDC x 6.3/4" UBH Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 6- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- Idl (22 stds) x 10- | (kern)
235.80
0 x 6-3/4* DC (3
5/8* DP UD-165
0 x 6-3/4* DC (3
5/8* DP UD-165
0 x 6-3/4* DC (3
0 x 6-3/4* DC (3 | atds) x 6-1/2' Jaa
6-5/8' DP UD-1
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n | I Loc.
Hook Wt
Hook Loa
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Hook +F
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Status
Last Dive
Injection
on @24:00 | B
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ting time
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Total D
Fu | 4,935.0 1 | mBRT
3,200
220
150
120
600
-
-
hrs
Total
32
35 gal |
| Bit Si: No. (ii 3 8. BHA Record #10 #10 #10 Mud Properti Mud Type KNPP KNPP KNPP KNPP No. Liner 1 6*(Bor 2 6*(Bor 3 6 Geologic In | ize M in) M in).5 Sr iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii | Nith XF 8-1/2° Bit x X 6-3/4° DC (6-3/4° DC (6-3/4° DC (9 6-3/4° DC (9 4.936 4,936 4,980 9 4.936 4,980 2 90 448 22 22 20 4 142 2 224:00 L CMT 20-3C Sitty claystore | /pe C K+N Motor (w/1.5.2 jts) x XO x I.37 57 1.37 58 5.00 Pit M40 1 40 1 40 1 40 1 68.8%, City clas 80.8%, City clas
 | ode Si iode Si iii RJ * bent angle) 5.68* HWDP * bent angle) Si * 221 30 223 33 gallor/stroke Anr ress. Anr An (m cuttings 510 ystone 7:0-8 tore 5-10%. CN

 | No. N 8198 3 x 8-1/8' State 3 (3 stds) × X (1 6rpm (1 10 9 12 9 2@97% Vel. b. Vel. DP 40 0
 | ozzles
x20/32
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Sel St.
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 | mBRT)
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adt x 6.3/4 ⁺ 1
stds) x XO x
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Pony NMDC x XC
5-1/2 DP 5-150
CI- San
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Item
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Rud Material
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Caustic Foda
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 | Hrs.
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d Oil Solid
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16. | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
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IDC x 6-3/4* UBH
IDC | (kern)
235.80
2 x 6-3/4* DC (3
58* DP UD-165
58* DP UD-165
(unit kg)
(unit kg)
(unit kg)
2 z 2
2 z 2
1, 1, 1 | stda) x 6-1/2' Jaa
k 6-5/8' DP UD-1
LGS
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2.00
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1200/0
50 | FIT 20/40 (m
0 min 5 m
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FIT
NC
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n | I Loc.
Hook Wt
Hook Loa
BHA
Below HV
below Jar
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Jar Rota
Today
Cutting &
Rot @2
Status
Last Dive
Injection
on @24:00 | B
(kit) @24
d
vDP
raveling blo
RRT
ick
ting time
 | S/N: -
Total D
Fu | 4,935.0 1 | mBRT
3,200
220
150
120
600
-
-
-
hrs
Total
32
35 gal |
| Bit Si:
(ii (ii)) 3 8. BHA Record #10 #10 | ize M in) S initial S | Bit XF 8-1/2" Bit x 6-3/4" DC (6-3/4" DC (6-3/4" DC (0-3/4" DC (6-3/4" DC (0-3/4" DC (900 4,930 4,980 9PM G 300 44 8 22 300 4 4 2 300< | K+N C Wotor (w/1.5.2) 2 jts) × XO × MW VIS 1.37 57 1.37 58 5.000 1 M000 1 40 0 40 1 60-65%, clays 60-65%, clays
 | Side Side 1177 RJ "bent angle) 5.68" HWDP 2 3.01 21 3.01 23 3.01 gallon/stroke 23 gallon/stroke 5.1 Cuttings 5.1 systome 7.0

 | No. N 8198 3 x 8-1/8' Stat 3 (3 stds) x X 6rpm (1 10 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 12 9 40 0% 0% 15-10% 7 15-5%
 | Jozzles x20/32 b (SLB) x (SLB) | Depth (From 4,867.0 Float Sub w/ FI DP 5.140 (25 API Cake 2.7 0.6 2.6 0.6 2.6 0.7 0.8 2.6 0.6 0.7 0.8 0.9 0.9 0.10 0.26 0.6 0.7 0.8 0.9
 | мВRT)
То
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4,989.0
14,989.0
10,0
10,0
10,0
10,0
10,0
10,0
10,0
2,6
6
 | age age 122.0 122.0 Pony NMDC x XX 5.12' DP 5.150 135.000 0.4C 133.000 0.4C 133.000 0.4C 133.000 0.4C Umm Bante (Bulk) Caustic Soda Ash Caustic Potatic
 | Hrs. 25.31 25.31 25.31 0x Telescope (49 stds) × XO 30 (49 stds) × XO d 0II Solid b 16.5 16.5 a 0I Solid b 16.5 16.5 a 0I Solid b 16.5 16.5 a Son Board @ 30 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
134 174
IDC x 6-3/4* UBH
IDC | (kern)
235.80
2 x 6-3/4* DC (3
58* DP UD-165
58* DP UD-165
(unit: kg)
(unit: kg)
(unit: kg)
2 22
2 (2
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) 3060/
1,00
4,55
6,00
6,44 | stds) x 6-1/2' Jaa
x 6-5/8' DP UD-1
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Injection
on @24:00 | B
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ting time
 | S/N: -
Total D
Fu | 4,935.0 1
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hrs
Total
32
35 gal
ger |
| Bit Si:
No. (ii
3 8. (ii
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Mud Properti
Mud Pumpa : 14
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3 6°(Bod
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5hale Shak | ize M in) M in) S in) S ise g24:00 ises @24:00 Time 5:00 17:00 frime s:sr 4.9 isize SI frime 5:00 formation 4915.0 4998.0 4998.0 eer 222:00 ummy x 2 22:00 | Number Arror 18-1/2" Bit x I 6-3/4" DC (0-3/4" DC (6-3/4" DC (0-000 6 | K+N C Wotor (w/1.5.2) 2 jts) × XO × MW VIS 1.37 57 1.37 58 5.000 1 M000 1 40 0 40 1 60-65%, clays 60-65%, clays
 | iode Si iode Si ithent angle) Formation bent angle) Si bent angle) Si provement Prv provement Si

 | No. N 8198 3 x 8-10" Size 3 3(3 stds) x X 6/pm (1) 10 9 12 9 297% V. Vel. W. Vel. 100 DP 40 D% 75-10% CMT tr 8-5%
 | vzzles x20/32 b (SLB) x. co x 5-1/2" 3el St. (°, 10') 12 13 CDEXC CDEXC MQJ (0 MQJ (1) Teinteir Coes SLB 0 SLB 0 BHGE | Depth (From 4,867.0 Float Sub w/ FI DP 5.140 (25 API Cake 2.7 0.6 2.6 0.6 2.6 0.7 0.8 2.6 0.6 0.7 0.8 0.9 0.9 0.10 0.26 0.6 0.7 0.8 0.9

 | mBRT) To 4,989.0 4,989.0 oat x 6-3/4° 1 5 slds) x XO x 10.0 0.1 0.2 10.0 0.2 10 99 1 15 5 2 6 1 3 3 | age 122.0 Pony NMDC x XX Sony NMDC x XX Sony Song I 125.000 I 135.000 Oct Bartle (Bulk) Caustic Soda Lime Soda Ash Caustic Potat XCD-Polyme Lignate NC Cien Lube V
 | Hrs. 25.31 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
134 174
IDC x 6-3/4* UBH
IDC | (kern)
235.80
2 x 6-3/4* DC (3
58* DP UD-165
58* DP UD-165
0 x 6-3/4* DC (3
0 | stds) x 6-1/2' Jast stds) x
 | X 65 with NSD FIT 20/40 (m) 5m 0 min 5m FIT 20/40 (m) 5m 0 min 5m 1 1 2 3 4 4 | Informatic | I Loc.
Hook Wt
Hook Loa
BHA
Below HV
below Jar
HPS & T
Hook blo
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Today
Cutting s
Er
ROV @2
Status
Last Dive
Injection
on @24:00 | B
(knt) @24
d
vDP
raveling blc
RRT
ck
ting time
-
kip @24:00
P
skid
Skid
Depar | S/N: -
Total D
Fu | 4,935.0 1
 | mBRT
3,200
220
150
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600
-
-
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hrs
Total
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35 gal
ger |
| Bit Si:
No. (ii
3 8.
BHA Record
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(mBRT) Depth
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 | ode Side intermediate Ruine bent angle) 5.68 HWDP bent angle) 5.68 HWDP PV YV 21 30 23 33 gallon/stroke 283 ress. Anr PPa (m PC 7.0 51 Store 5-10%, Ch cuttings Works 040, Ch Works 040, Ch Mo.1 No.2 1

 | No. N 8198 3 x8-1/8' States 3 graph 3 graph 3 graph 10 10 19 10 10 10 10 10 10 10 10 10 10 <t< td=""><td>ozzles
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c (SLB) x 2
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. Min. Max.
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IDC x 6-3/4* UBH
IDC x 6-3/4* UBH
IDC</td><td>(kern)
235.80
235.80
2 x 6-3/4* DC (3
58* DP UD-165
0 x 6-3/4* DC (3
58* DP UD-165
0 x 6-3/4*
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(unit: kg)
(unit: kg)
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0 x 6-4,
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 | Hrs. 25.31 0x Telescope (49 stds) x XO d 01 Solid 16.5 16.5 16.5 16.5 16.5 17.5 18.5 18.5 19.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7
10.7 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
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235.80
2 x 6-3/4* DC (3
58* DP UD-165
0 x 6-3/4* DC (3
58* DP UD-165
0 x 6-3/4*
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3,200
220
150
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600
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hrs
Total
32
35 gal
ger |
| Bit Si: No. (iii) 3 8. #10 #10 #40 Propertion Mud Propertion Mud Type KNPP KNPP KNPP KNPP Vid Pumps : 16 6 2 6"(Bo) 3 6 Geologic in From 4905.0 4995.0 4925.0 50a Shale Shake Shale Shake No.2 20, No.2 20, Materials Si I Uter 10. | ize M in) in) in) | Depth
(mBRT) Depth
(mBRT) 4.936 4.936 PM G 88 2.930 224:00 L CMT 20-3G Silly clayston Silly clayston Silly clayston Silly clayston G No.4 20 No.5 20,100.5 No.5 20,000.5 Unit 3.01 | PPP C K+N
 | ode Si iode Si intra regional RJ bent angle) 5.68 HWDP 5.68 HWDP Si PV VV 21 30 gallon/stroke 23 gallon/stroke 23 ress. Ann 7.0 DC 5.10 Cuttings ystone 5-10%, CM No.3 No.3 No.3 No.3 Sed

 | No. N No. N 8198 3 4 3 6rpm (1) 0 9 12 9 @07% . V. Vel. . IDP 40 0% 57.0% T 17.50% T 17.50% Jff
 | iozzles x20/32 b (SLB) x (SLB) | Depth (From 4,867.0 4,867.0 1 4,867.0 1 PS-140 (25 1 DP S-140 (25 1 2,7 0.6 2,8 0.6 2,8 0.6 2,7 0.6 2,8 0.6 nnel @24:00 1 SC, Other) 1 state 1 whotos 1 whotos 1 whotos 1
 | mBRT) To 4,989.0 4 1 4,989.0 stds) x XO x x pH Pf 10.1 0.2 10.0 0.2 15 5 2 6 1 3 6 0 4 1 2 2
 | age age age 122.0 Pony NMDC x XC 5-1/2 DP S-150 Ci- San 135.000 0.4C 135.000 0.4C 138.000 0.4C I38.000 0.4C Caustic Polas Caustic Polas Item Bartic (Bulk) Caustic Polas Caustic Polas Identification Caustic Polas Item Caustic Polas Barte (Bulk) Caustic Polas Clean Lube V Clean Lube V Idexes D Deformer 300 Bi-Carbonate Citric Acid Tan Call M/P Tan Call M/P
 | Hrs. 25.31 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
134 174
IDC x 6-3/4* UBH
IDC | (kern)
235.80
2 x 6-3/4* DC (3
58* DP UD-165
x 6-3/4* DC (3
58* DP UD-165
x 6-3/4* DC (3
x 7) DC (3
x 6-3/4* DC (3
x 7) D | atds) x 6-1/2' Jaa
6-5/8' DP UD-1
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6 min 5m
6 min 5m
7 min 5m
7 min 5m
8 min 5m
8 min 10 | m) n
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Total 0
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Fu
1 | 4,935.0 1 | mBRT
3,200
220
150
120
600
-
-
-
hrs
Total
32
35 gal
ger |
| Bit Si: No. (ii 3 8. BHA Record #10 #10 #10 Mud Properti Mud Properti Mud Properti No. Liner 1 1 6 2 6*(Bo) Geologic In 4905.0 4915.0 Shale Shak No.1 20.0 Shale Shak No.2 No.2 20.0 Materials Site Fresh Wate Potable Wate Potable | ize M in) M in) S in) S ise (g24:00) ises (g24:00) Time 5:00 17:00 17:00 #P-220 @ r Size SI 400ster) € 5" 4 4915.0 4995.0 499.0 cer @224:00 Qummy x 2 50 x 2ea Jummy x 2 50 x 2ea Jummy x 2 50 x 2ea Site Site | Imit XF i=1/2" Bit x1 KF i=3/4" DC (i i | PPP C C K+N
 | ode Side intra RJ intra RI

 | No. N 8198 3 strain 3 drpm (1 (1) 12 grym (1 (12 9 0.7% V. Vet. min) 0 0.0 0
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10.2 | age age age 122.0 Pony NMDC x XC 5.12 DP S150 5.12 DP S150 0.44 135.000 0.44 Ilso 0.64 Ilso 0.64 CL San Barte (Bulk) Caustic Soda Lime Barte (Bulk) Color-Polymer Colastic Foda VGD-Polymer 300 Tel Clean W Patronate NC Clean Lube V Deformer 300 Tel Clean M Tal Clan M F Tal Clan M / F Telnite GXL Treat-HS Teal HS
 | Hrs. 25.31 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm
. Min. Max.
134 174
IDC x 6-3/4* UBH
IDC | (kern)
235.80
2 x 6-3/4* DC (3
58* DP UD-165
58* DP UD-165
(unit kg)
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. Min. Max.
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IDC x 6-3/4* UBH
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 | iode Si intra RJ bent angle) Si 5.68 ⁺ HWDP 21 30 221 33 jallon/stroker jallon/stroker mailton/stroker Ann mailton/stroker Ann mailton/stroker Site cuttings Site cuttings Site cuttings No.3 No.2 No.3 No.4 Rec 89.7 G.0 10.0 0.0

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IDC x
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 | ode S: intr RJ intra-second RJ intra-second RJ intra-second Second intra-second Second intra-second Second intra-second RJ intra-second Recent intra-second Recent intra-second Recent intra-second Recend intra-second <td>No. N No. N 8198 3 4 3 6rpm (1) 0 9 2 9 @07% V.Vel. V.Vel. 10 DP 40 0 9 0% 5.50% T tr-5% CMT 6 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>b (SLB) x
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3 n Board @
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IDC x 6-3/4* UBH
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 | mBRT) To 4,989.0 | age age age 122.0 Pony NMDC x XC 5-12' DP S-150 Ci- San 135.000 0.4C 138.000 0.4C 133.000 0.4C 138.000 0.4C I33.000 0.4C I38.000 0.4C I33.000 0.4C Caustic Polac Barte (Bulk) Caustic Polac Coustic Polac Coustic Polac Item Sada Ash Caustic Polac Ciastic Polac Deformer 30C Tel Claube V Bi-Carbonate Citric Acid Citric Acid Mid Seal P Tel Plug C / N Tel Stop P/C Tel Stop P/C Tel Stop P/C
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(49 stds) x XC
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. Min. Max.
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| Bit Si: No. (iii) 3 8. BHA Record #10 #10 #10 Mud Properti Mud Properti Mud Properti Mud Properti Mud Properti Mud Properti Mud Properti Mud Properti Mud Properti State Mud Properti 6 2 6*(Bod) Geologic In 6 4905.0 4905.0 4905.0 4905.0 4905.0 120.0 No.1 20.0 No.1 20.0 Materials SI Neaterials SI Fresh Water Fuel Lubei, Fuel Cement "G' Cement "G' Cement "G' | ize M in) Sr in) Sr in) Sr in) Sr in) Sr inities @24:00 Time inities @24:00 Time inities @24:00 Time size Sr information (information (inform | Depth
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 | No. N No. N 8198 3 48.1/8' Sta 3 6rpm (1) 0 9 2.9 2.9 @97% V. Vel. T t-5% CMT 6 CMT 75-00% T t-5% Stff Stf Stff 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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 | mBRT) To 4,989.0
 | age age age 122.0 Pony NMDC x XC 5.122 DP S-150 Ci- San 135.000 0.4C 135.000 0.4C Itan Barte (Bulk) Barte (Bulk) Caustic Soda Item Barte (Bulk) Caustic Foda Soda Ash Caustic Caustic Colar Caustic Poda Deformer 300 Tel Clean ULbe V Tel-Roymer I Tel Clean ULbe V Tel Clean ULbe V Tel Clean ULbe V Tan Cal Gal M / F Tel IClean M Tel Stop P/C Tel Stop P/C Tel Stop P/C Baloift Driscal D Ter Flow P Poro Seal Steel Seal Steel Se
 | Hrs. 25.31 Dx Telescope 6 (49 stds) x XC (4) 0il Solid 1 1 0 1 | WOB (knt) Min. Max 0 100 75 x 6-3/4" NIX 76 x 6-5/8" DP Z MBC | rpm Min. Max. 134 174 135 174 IDC x 6-34* UBH 11 IDC x 6-34* UBH 11 IDC x 6-34* UBH 20.009 Used 200/100/1 IDC x 6-34* UBH 11 IDC x 6-34* UBH 11 IDC x 6-34* UBH 20.009 IDC x 6-34* UBH 11 |
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 | ode Si intra- RJ bent angle) 5.68° HWDP \$5.68° HWDP 21 galon/strong 30 galon/strong 30 galon/strong 5 ress. Ann galon/strong 5 cuttings 5 cons 30-40% 6 No.2 1 No.3 6 10.0 0 0.0 0 0.0 0 0.0 0 0.0 0

 | No. N No. N 8198 3 48.1/8' Sta 3 6rpm (1) 0 9 2.9 2.9 @97% V. Vel. T t-5% CMT 6 CMT 75-00% T t-5% Stff Stf Stff 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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b (SLB) x x
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58* DP UD-165
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| Bit Si: No. (iii 3 8. BHA Record #10 #10 #10 Mud Propertiv Mud Type KNPP KNPP KNPP KNPP Mud Prompa: 14 6 2 6*(6) 3 6 4905.0 4915.0 4905.0 4915.0 A995.0 Shale Shak No.1 Potable Wa Drill Water Free Fresh Wate Potable Wa Drill Water Gement "G' Boat Inform Boat Inform Boat Kar #8 Meiji-rr | ize M in) in) in) in) Sr in) ises g24:00 in) ises g24:00 in) ises g24:00 in) ises g2:0 in) ises g2:1 in) ises g2:2 in) ises g2:1 in) ises g2:2 in) ises g2:2 in) ises g2:2 in) ises g2:2 in) in) ises | Depth 6-122 Bit xt 6-344 DC (8-34 DC (9-34 DC (| ppe c Meder (w1.5.1 Moder (w1.5.1 MW VIS VIS Jan A Solution MW VIS Solution Jan A Solution Jan Solution Solution Jan Solution Solution MM VIS Solution Jan Solution Solution Solution
 | ode Si intra RJ bent angle) Si 5.68" HWDP 21 30 23 33 allon/stroke gallon/stroke ress. Anr nglon/stroke ress. Anr 0 DC cuttings Stone 5-10%. Ch rotse 30-0.0% Centrifuge No.2 n No.3 n 10.0 0.0 0.0 0.0 0.0 0.0 0.0 Contract (Chika)

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