



Weatherford®

30-025-41032

Devon Energy
Thistle Unit 44H
Lea County, New Mexico

Section 5

Weatherford Final Daily Activity Reports

OCT 22 2013

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 1 - 2013/06/24**FILE #:** 4029823**JOB TYPE:****RIG & NO:** H & P 416**WELL NAME:** Thistle Unit 44H**COMPANY:** Devon Energy Corp**SURFACE LOCATION:** 350' FSL & 1980' FWL**SERVICE CO.:** Weatherford**SURVEY TYPE:** Positive Pulse MWD**FIELD / LOCATION:** Deleware Basin / New Mexico / USA**Company Man:** Jeff Foster, Jack Pierce**DIR Supervisor:** Rene Rosas, Steven Joyce**MWD Supervisor:** Dave Latch, Derrick Brown**GROUND ELEV:** 3661 ft**START DEPTH:** 0.0 ft**PROGRESS:** 0.0 ft**DAILY COST:** USD\$0.00**KB ELEV:** 3686 ft**END DEPTH:** 0.0 ft**AVG. ROP.:** 0.0 ft/hr**PREVIOUS COST:** USD\$0.00**TOTAL COST:** USD\$0.00**WORK STATUS:** Standby

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-18:30	Travel To Job	18.50	0	n/a	18:30-24:00	Standby - Strap tools	5.50	0	n/a

TIME SUMMARY (hrs):**MOTOR DRILL:** 0.00**ORIENTING HRS:** 0.00**ROTARY DRILL:** 0.00**DRILLING PARAMETERS:****ROTARY TORQUE:****STRING WEIGHT** 0 lbs**TIME DRILL:** 0.00**ROTATING HRS:** 0.00**MOTOR HRS:** 0.00**WOB SLIDING (HI):** 0 lbf**WOB ROTATE (HI):** 0 lbf**MOTOR REAM:** 0.00**TRIP:** 0.00**WOB SLIDING (LO):** 0 lbf**WOB ROTATE (LO):** 0 lbf**CIRC:** 0.00**ROTARY DRILL:** 0.00**OTHER:** 24.00**RPM (ROTARY):****DRAG UP:** 0 lbf**MOTOR HRS:** 0.00**DRILL HRS:** 0.00**TOTAL HRS:** 24.00**RPM (MOTOR):****DRAG DN:** 0 lbf**BHA / MOTOR / BIT INFORMATION:****BHA:****HOLE SIZE:****SECTION TYPE:****SURVEY TYPE:****MANFCT.:****STABILIZER:****SERIAL#:****MODEL:****LOBE CFG.:****SETTING:****KICKPAD:****SIZE:****MTR HRS THIS DAY:****MTR HRS TO DATE:****MANFCT:****BIT TYPE:****TYPE:****NOZZLES:****IADC BIT GRADE:****PUMP PARAMETERS****PRESSURE ON BTM:** 0**PRESSURE OFF BTM:** 0**TOTAL FLOW RATE:** 0.00 gal/min**PUMP 1:** TYPE: PZ-11**EFF.:** 95.0%**SPM:** 0.00**LINER:** 0.00 in**STROKE VOL.:** 0.0000 gal/stk**PUMP 2:** TYPE: PZ-11**EFF.:** 95.0%**SPM:** 0.00**LINER:** 0.00 in**STROKE VOL.:** 0.0000 gal/stk**PUMP 3:** TYPE:**EFF.:** 100.0%**SPM:** 0.00**LINER:** 0.00 in**STROKE VOL.:** 0.0000 gal/stk**MUD RECORD****MUD TYPE:****VISC:** 0 sec/qt**WTR LOSS:** 0 cc/30min**PV:** 0 cP**YP:** 0 lb/100 ft²**pH:** 0**DENSITY:** 0 lb/gal**GEL 0/10:** 0.00 lb/100 ft²**SAND:** 0**SOLIDS:** 0**OIL:** 0**TEMP:** 0 °F**LIQUID BASE:****LIQUID RATE:** 0 gal/min**GAS TYPE:****GAS RATE:** 0 cu ft/min**COMMENTS:**

17:30 Travel to job .

17:00 -24:00 Standby

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 2 - 2013/06/25

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Jack Pierce

DIR Supervisor: Rene Rosas, Steven Joyce, Jesus Ramirez

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 0.0 ft

PROGRESS: 0.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 0.0 ft

AVG. ROP.: 0.0 ft/hr

PREVIOUS COST: USD\$0.00

WORK STATUS: Standby

(All units are imperial.)

TOTAL COST: USD\$0.00

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-24:00	Standby	24.00	0	n/a			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00

ORIENTING HRS: 0.00

ROTARY DRILL: 0.00

TIME DRILL: 0.00

ROTATING HRS: 0.00

MOTOR HRS: 0.00

MOTOR REAM: 0.00

TRIP: 0.00

OTHER: 24.00

CIRC: 0.00

ROTARY DRILL: 0.00

TOTAL HRS: 24.00

MOTOR HRS: 0.00

DRILL HRS: 0.00

DRILLING PARAMETERS:

ROTARY TORQUE:

STRING WEIGHT 0 lbs

WOB SLIDING (HI): 0 lbf

WOB ROTATE (HI): 0 lbf

WOB SLIDING (LO): 0 lbf

WOB ROTATE (LO): 0 lbf

RPM (ROTARY):

DRAG UP: 0 lbf

RPM (MOTOR):

DRAG DN: 0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA:

HOLE SIZE:

SECTION TYPE:

SURVEY TYPE:

MANFCT.:

STABILIZER:

SERIAL#:

MODEL:

LOBE CFG.:

SETTING:

KICKPAD:

SIZE:

MTR HRS THIS DAY:

MTR HRS TO DATE:

MANFCT:

BIT TYPE:

TYPE:

NOZZLES:

IADC BIT GRADE:

PUMP PARAMETERS

PRESSURE ON BTM: 0

PRESSURE OFF BTM: 0

TOTAL FLOW RATE: 0.00 gal/min

PUMP 1: TYPE: PZ-11

EFF.: 95.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

PUMP 2: TYPE: PZ-11

EFF.: 95.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

PUMP 3: TYPE:

EFF.: 100.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:

VISC: 0 sec/qt

WTR LOSS: 0 cc/30min

PV: 0 cP

YP: 0 lb/100 ft²

pH: 0

DENSITY: 0 lb/gal

GEL 0/10: 0.00 lb/100 ft²

SAND: 0

SOLIDS: 0

OIL: 0

TEMP: 0 °F

LIQUID BASE:

LIQUID RATE: 0 gal/min

GAS TYPE:

GAS RATE: 0 cu ft/min

COMMENTS:

Still drilling Verticle.

Average ROP is 35/55 per hour, drilling to KOP. 10,796'

All we are waiting for are the NOV motors , they should be here late this evening or first thing in the morning.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services
v4.2.2674

Day 3 - 2013/06/26

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Jack Pierce

DIR Supervisor: Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

KB ELEV: 3686 ft

START DEPTH: 0.0 ft

END DEPTH: 0.0 ft

PROGRESS: 0.0 ft

AVG. ROP.: 0.0 ft/hr

DAILY COST: USD\$0.00

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Standby

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-24:00	Standby	24.00	0	n/a			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00

TIME DRILL: 0.00

MOTOR REAM: 0.00

CIRC: 0.00

MOTOR HRS: 0.00

ORIENTING HRS: 0.00

ROTATING HRS: 0.00

ROTARY DRILL: 0.00

ROTARY DRILL: 0.00

DRILL HRS: 0.00

ROTARY DRILL: 0.00

MOTOR HRS: 0.00

TRIP: 0.00

OTHER: 24.00

TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE:

WOB SLIDING (HI): 0 lbf

WOB SLIDING (LO): 0 lbf

RPM (ROTARY):

RPM (MOTOR):

STRING WEIGHT 0 lbs

WOB ROTATE (HI): 0 lbf

WOB ROTATE (LO): 0 lbf

DRAG UP: 0 lbf

DRAG DN: 0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA:

MANFCT.:

SETTING:

MANFCT:

IADC BIT GRADE:

HOLE SIZE:

STABILIZER:

KICKPAD:

BIT TYPE:

SECTION TYPE:

SERIAL#:

SIZE:

TYPE:

SURVEY TYPE:

MODEL:

MTR HRS THIS DAY:

NOZZLES:

LOBE CFG.:

MTR HRS TO DATE:

PUMP PARAMETERS

PRESSURE ON BTM: 0

PUMP 1: TYPE: PZ-11

PUMP 2: TYPE: PZ-11

PUMP 3: TYPE:

PRESSURE OFF BTM: 0

EFF.: 95.0%

SPM: 0.00

EFF.: 95.0%

SPM: 0.00

EFF.: 100.0%

SPM: 0.00

TOTAL FLOW RATE: 0.00 gal/min

LINER: 0.00 in

LINER: 0.00 in

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

STROKE VOL.: 0.0000 gal/stk

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:

DENSITY: 0 lb/gal

LIQUID BASE:

VISC: 0 sec/qt

GEL 0/10: 0.00 lb/100 ft²

WTR LOSS: 0 cc/30min

SAND: 0

LIQUID RATE: 0 gal/min

PV: 0 cP

SOLIDS: 0

GAS TYPE:

YP: 0 lb/100 ft²

OIL: 0

pH: 0

TEMP: 0 °F

GAS RATE: 0 cu ft/min

COMMENTS:

Standby.

Drilling to KOP.

POOH and changed Bit and Motor.

T.I.H.

Drilling to KOP.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Day 4 - 2013/06/27**Drilling Services**
v4.2.2674**FILE #:** 4029823
JOB TYPE:
RIG & NO: H & P 416**WELL NAME:** Thistle Unit 44H
COMPANY: Devon Energy Corp
SURFACE LOCATION: 350' FSL & 1980' FWL**SERVICE CO.:** Weatherford
SURVEY TYPE: Positive Pulse MWD
FIELD / LOCATION: Delaware Basin / New Mexico / USA**Company Man:** Jeff Foster, Chris Shields
DIR Supervisor: Jesus Ramirez, Rene Rosas
MWD Supervisor: Dave Latch, Derrick Brown**GROUND ELEV:** 3661 ft **START DEPTH:** 0.0 ft **PROGRESS:** 10776.0 ft **DAILY COST:** USD\$0.00
KB ELEV: 3686 ft **END DEPTH:** 10776.0 ft **AVG. ROP.:** 0.0 ft/hr **PREVIOUS COST:** USD\$0.00
TOTAL COST: USD\$0.00**WORK STATUS:** Standby (All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-07:00	Standby - Drill to KOP	7.00	10776	n/a	19:30-19:45	Shallow Test Tools - GOOD	0.25	10776	1
07:00-18:30	POOH - See Comments	11.50	10776	n/a	19:45-24:00	RIH With Directional - BHA #1	4.25	10776	1
18:30-19:30	Handle Directional Tools	1.00	10776	1			0.00		

TIME SUMMARY (hrs):				DRILLING PARAMETERS:			
MOTOR DRILL:	0.00	ORIENTING HRS:	0.00	ROTARY DRILL:	0.00	ROTARY TORQUE:	STRING WEIGHT 0 lbs
TIME DRILL:	0.00	ROTATING HRS:	0.00	MOTOR HRS:	0.00	WOB SLIDING (HI):	0 lbf
MOTOR REAM:	0.00			TRIP:	15.75	WOB SLIDING (LO):	0 lbf
CIRC:	0.00	ROTARY DRILL:	0.00	OTHER:	8.25	RPM (ROTARY):	DRAG UP: 0 lbf
MOTOR HRS:	0.00	DRILL HRS:	0.00	TOTAL HRS:	24.00	RPM (MOTOR):	DRAG DN: 0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: n/a	STABILIZER: n/a	SERIAL#: n/a	MODEL: n/a
SETTING: n/a °	KICKPAD: n/a	SIZE: n/a	LOBE CFG.: n/a
MANFCT: Halliburton	BIT TYPE: PDC Bit	TYPE: MMD55DM	MTR HRS THIS DAY: 0
			MTR HRS TO DATE: 0
NOZZLES: 0.552 in ² TFA			

IADC BIT GRADE: 1 / 2 / CT / G / X / 1 / NO / BHA

PUMP PARAMETERS

PRESSURE ON BTM: 0	PRESSURE OFF BTM: 0	TOTAL FLOW RATE: 0.00 gal/min
PUMP 1: TYPE: PZ-11	EFF.: 95.0% SPM: 0.00	LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 2: TYPE: PZ-11	EFF.: 95.0% SPM: 0.00	LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 3: TYPE:	EFF.: 100.0% SPM: 0.00	LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:	VISC: 0 sec/qt	WTR LOSS: 0 cc/30min	PV: 0 cP	YP: 0 lb/100 ft ²	pH: 0
DENSITY: 0 lb/gal	GEL 0/10: 0.00 lb/100 ft ²	SAND: 0	SOLIDS: 0	OIL: 0	TEMP: 0 °F
LIQUID BASE:		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

COMMENTS:

Standby.
Drilling to KOP @ 10,776'
Circulate and pump sweep.
Drop Gyro and T.O.H. @ 257'.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 5 - 2013/06/28

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Chris Shields

DIR Supervisor: Larry Brennan, Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 10776.0 ft

PROGRESS: 274.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 11050.0 ft

AVG. ROP.: 23.3 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:45	RIH With Directional	2.75	10776	1	13:45-14:00	Circ & Accumulate Surveys - 10913' 15.59° 319.95	0.25	10972	1
02:45-03:00	Circ & Accumulate Surveys - Ch Sht.	0.25	10776	1	14:00-15:00	Orienting With Motor - 31'@30R 20Klb,250Dif	1.00	11004	1
03:00-05:15	Orienting With Motor - 39' 80R GTF	2.25	10815	1	15:00-15:15	Circ & Accumulate Surveys - 10945' 18.48/327.00	0.25	11004	1
05:15-05:30	Circ & Accumulate Surveys - @ 10756' 2.85/256	0.25	10815	1	15:15-16:00	Orienting With Motor - 24' 30R	0.75	11028	1
05:30-08:15	Orienting With Motor - 32' 60R GTF	2.75	10847	1	16:00-16:15	Work on Pumps	0.25	11028	1
08:15-08:30	Circ & Accumulate Surveys - 10788' 3.74° 277.19	0.25	10847	1	16:15-16:30	Orienting With Motor - 7' 30R	0.25	11035	1
08:30-10:00	Orienting With Motor - 31'@20R	1.50	10878	1	16:30-16:45	Circ & Accumulate Surveys - 10976' 21.32/329.44	0.25	11035	1
10:00-10:15	Circ & Accumulate Surveys - 10819' 6.41° 299.26	0.25	10878	1	16:45-18:30	Standby - WAIT ON DECISION	1.75	11035	1
10:15-11:30	Orienting With Motor - 31'@30R 23Klb,250Dif	1.25	10909	1	18:30-18:45	Orienting With Motor - 15' 20R	0.25	11050	1
11:30-11:45	Circ & Accumulate Surveys - 10850' 9.36 305.03	0.25	10909	1	18:45-19:00	Circ & Accumulate Surveys - CHECK SHOT @	0.25	11050	1
11:45-12:30	Orienting With Motor - 32'@60R 20Klb,250Dif	0.75	10941	1	19:00-19:30	Circ & Condition Mud - PUMP & SPOT SLUG	0.50	11050	1
12:30-12:45	Circ & Accumulate Surveys - 10882' 12.64° 310.38	0.25	10941	1	19:30-24:00	Change Bit - POOH	4.50	11050	1
12:45-13:45	Orienting With Motor - 31'@30R 20Klb,250Dif	1.00	10972	1			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00
 TIME DRILL: 0.00
 MOTOR REAM: 0.00
 CIRC: 0.00
 MOTOR HRS: 0.00

ORIENTING HRS: 0.00
 ROTATING HRS: 0.00
 ROTARY DRILL: 11.75
 DRILL HRS: 11.75

ROTARY DRILL: 11.75
 MOTOR HRS: 0.00
 TRIP: 2.75
 OTHER: 9.50
 TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE:
 WOB SLIDING (HI): 23000 lbf
 WOB SLIDING (LO): 10000 lbf
 RPM (ROTARY):
 RPM (MOTOR): 142 rpm

STRING WEIGHT 0 lbs
 WOB ROTATE (HI): 0 lbf
 WOB ROTATE (LO): 0 lbf
 DRAG UP: 298000 lbf
 DRAG DN: 265000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1 HOLE SIZE: 8.75 in SECTION TYPE: Curve SURVEY TYPE: Positive Pulse MWD
 MANFCT.: n/a STABILIZER: n/a SERIAL#: n/a MODEL: n/a LOBE CFG.: n/a
 SETTING: n/a ° KICKPAD: n/a SIZE: n/a MTR HRS THIS DAY: 0 MTR HRS TO DATE: 0
 MANFCT: Halliburton BIT TYPE: PDC Bit TYPE: MMD55DM NOZZLES: 0.552 in² TFA
 IADC BIT GRADE: 1 / 2 / CT / G / X / I / NO / BHA

PUMP PARAMETERS

PRESSURE ON BTM: 1830 PRESSURE OFF BTM: 1580 TOTAL FLOW RATE: 508.00 gal/min
 PUMP 1: TYPE: PZ-11 EFF.: 95.0% SPM: 57.00 LINER: 6.50 in STROKE VOL.: 4.5112 gal/stk
 PUMP 2: TYPE: PZ-11 EFF.: 95.0% SPM: 57.00 LINER: 6.50 in STROKE VOL.: 4.5112 gal/stk
 PUMP 3: TYPE: EFF.: 100.0% SPM: 0.00 LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt VISC: 28 sec/qt WTR LOSS: 0 cc/30min PV: 1 cP YP: 1 lb/100 ft² pH: 0
 DENSITY: 8.7 lb/gal GEL 0/10: 0.00 lb/100 ft² SAND: 0 SOLIDS: 0 OIL: 0 TEMP: 0 °F
 LIQUID BASE: Water LIQUID RATE: 475 gal/min GAS TYPE: GAS RATE: 0 cu ft/min

COMMENTS:

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 6 - 2013/06/29

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Chris Shields

DIR Supervisor: Larry Brennan, Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 11050.0 ft

PROGRESS: 206.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 11256.0 ft

AVG. ROP.: 20.6 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-02:00	POOH For Bit	2.00	11050	1	15:15-15:30	Circ & Accumulate Surveys - @ 11071' 30.57/337.	0.25	11130	2
02:00-02:45	Change Bit - Torque NM Stblzr	0.75	11050	1	15:30-17:00	Orienting With Motor - 32' 30R	1.50	11162	2
02:45-03:00	Shallow Test Tools - GOOD	0.25	11050	2	17:00-17:15	Circ & Accumulate Surveys - @ 11103' 34.07/339.9	0.25	11162	2
03:00-10:00	RIH With New Bit - BHA #1	7.00	11050	2	17:15-18:35	Orienting With Motor - 31' 5 50R/26' 25R	1.33	11193	2
10:00-10:15	Circ & Accumulate Surveys - CheckS 23.06 330.01	0.25	11050	2	18:35-18:50	Circ & Accumulate Surveys - @ 11134' 37.29/342.6	0.25	11193	2
10:15-10:30	Rig Repair - Work on Pumps.	0.25	11050	2	18:50-20:10	Orienting With Motor - 6' 70r/27 15R	1.33	11225	2
10:30-11:30	Orienting With Motor - 17'@30R 50K,150Diff	1.00	11067	2	20:10-20:25	Circ & Accumulate Surveys - @ 11166 40.59/344.02	0.25	11225	2
11:30-11:45	Circ & Accumulate Surveys - 11008' 24.64° 331.35	0.25	11067	2	20:25-22:00	Orienting With Motor - 31' 10R	1.58	11256	2
11:45-13:15	Orienting With Motor - 31'@30R 50K,150Diff	1.50	11098	2	22:00-22:15	Circ & Accumulate Surveys - @ 11197' 43.48/346.3	0.25	11256	2
13:15-13:30	Circ & Accumulate Surveys - 11039' 27.53° 333.69	0.25	11098	2	22:15-23:00	Circ & Condition Mud - Build/Pump Slug	0.75	11256	2
13:30-15:15	Orienting With Motor - 32'@30R 50K,150Diff	1.75	11130	2	23:00-24:00	POOH - See Comments - P/U MM Dialed 2.60	1.00	11256	2

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00
 TIME DRILL: 0.00
 MOTOR REAM: 0.00
 CIRC: 0.00
 MOTOR HRS: 0.00

ORIENTING HRS: 0.00
 ROTATING HRS: 0.00
 ROTARY DRILL: 10.00
 DRILL HRS: 10.00

ROTARY DRILL: 10.00
 MOTOR HRS: 0.00
 TRIP: 10.00
 OTHER: 4.00
 TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE: 0 lbs
 WOB SLIDING (HI): 50000 lbf
 WOB SLIDING (LO): 30000 lbf
 RPM (ROTARY):
 RPM (MOTOR): 142 rpm
 STRING WEIGHT: 0 lbs
 WOB ROTATE (HI): 0 lbf
 WOB ROTATE (LO): 0 lbf
 DRAG UP: 290000 lbf
 DRAG DN: 265000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 1 HOLE SIZE: 8.75 in SECTION TYPE: Curve SURVEY TYPE: Positive Pulse MWD
 MANFCT.: n/a STABILIZER: n/a SERIAL#: n/a MODEL: n/a LOBE CFG.: n/a
 SETTING: n/a ° KICKPAD: n/a SIZE: n/a MTR HRS THIS DAY: 0 MTR HRS TO DATE: 0
 MANFCT: Halliburton BIT TYPE: PDC Bit TYPE: MMD55DM NOZZLES: 0.552 in² TFA
 IADC BIT GRADE: 1 / 2 / CT / G / X / I / NO / BHA

BHA: 2 HOLE SIZE: 8.75 in SECTION TYPE: Curve SURVEY TYPE: Positive Pulse MWD
 MANFCT.: n/a STABILIZER: n/a SERIAL#: n/a MODEL: n/a LOBE CFG.: n/a
 SETTING: n/a ° KICKPAD: n/a SIZE: n/a MTR HRS THIS DAY: 0 MTR HRS TO DATE: 0
 MANFCT: Hughes BIT TYPE: Tri-Cone Bit TYPE: VGD-38CH NOZZLES: 14, 14, 14, n/a: 0.451 in² TFA
 IADC BIT GRADE: 1 / 2 / NO / 2 / E / I / NO / BHA

PUMP PARAMETERS

PRESSURE ON BTM: 1890 PRESSURE OFF BTM: 1740 TOTAL FLOW RATE: 488.56 gal/min
 PUMP 1: TYPE: PZ-11 EFF.: 95.0% SPM: 57.00 LINER: 6.50 in STROKE VOL.: 4.5112 gal/stk
 PUMP 2: TYPE: PZ-11 EFF.: 95.0% SPM: 57.00 LINER: 6.50 in STROKE VOL.: 4.5112 gal/stk
 PUMP 3: TYPE: EFF.: 100.0% SPM: 0.00 LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: VISC: 28 sec/qt WTR LOSS: 0 cc/30min PV: 1 cP YP: 1 lb/100 ft² pH: 0
 DENSITY: 8.7 lb/gal GEL 0/10: 1.00 lb/100 ft² SAND: 0 SOLIDS: 0 OIL: 0 TEMP: 137 °F
 LIQUID BASE: Water LIQUID RATE: 0 gal/min GAS TYPE: GAS RATE: 0 cu ft/min



Weatherford®

Daily Activity Report

Drilling Services

v4.2.2674

Day 6 - 2013/06/29

COMMENTS:

When we pulled the motor out, the NB stabilizer was completely backed off, the threads were'nt damaged and seemed to be in good shape. Company man and I inspected the motor and all seemed to be good it drained strong and only has 11.75 drilling hours on it, we would re-run the same NOV motor. I torqued the NB stabilizer back up (15k) and changed out the bit.

Change bit and R.I.H.

Drilling ahead building the curve.

@ 22.15

We took a survey and the motor builds are still too low...average BR is about 10.5. We will be pooh to pick up a new motor with a bend of 2.60 and a new bit.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 7 - 2013/06/30

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Chris Shields

DIR Supervisor: Larry Brennan, Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 11256.0 ft

PROGRESS: 0.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 11256.0 ft

AVG. ROP.: 0.0 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-05:45	POOH - See Comments	5.75	11256	2	08:15-11:00	Rig Repair - Work on Drawwork	2.75	11256	3
05:45-06:45	Change Motor	1.00	11256	3	11:00-13:00	Trip In - T.I.H@5181'	2.00	11256	3
06:45-07:15	Shallow Test Tools - 400GPM,88SPM,550Psi	0.50	11256	3	13:00-20:00	Rig Repair - Work on Top Drive	7.00	11256	3
07:15-07:45	Change Bit - Torqued NBStab	0.50	11256	3	20:00-24:00	RIH	4.00	11256	3
07:45-08:15	Rig Service	0.50	11256	3			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00	ORIENTING HRS: 0.00	ROTARY DRILL: 0.00	ROTARY TORQUE:	STRING WEIGHT	0 lbs
TIME DRILL: 0.00	ROTATING HRS: 0.00	MOTOR HRS: 0.00	WOB SLIDING (HI): 0 lbf	WOB ROTATE (HI): 0 lbf	
MOTOR REAM: 0.00		TRIP: 11.75	WOB SLIDING (LO): 0 lbf	WOB ROTATE (LO): 0 lbf	
CIRC: 0.00	ROTARY DRILL: 0.00	OTHER: 12.25	RPM (ROTARY):	DRAG UP: 0 lbf	
MOTOR HRS: 0.00	DRILL HRS: 0.00	TOTAL HRS: 24.00	RPM (MOTOR):	DRAG DN: 0 lbf	

DRILLING PARAMETERS:

BHA / MOTOR / BIT INFORMATION:

BHA: 2	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: n/a	STABILIZER: n/a	SERIAL#: n/a	MODEL: n/a
SETTING: n/a °	KICKPAD: n/a	SIZE: n/a	LOBE CFG.: n/a
MANFCT: Hughes	BIT TYPE: Tri-Cone Bit	TYPE: VGD-38CH	MTR HRS THIS DAY: 0
IADC BIT GRADE: 1 / 2 / NO / 2 / E / 1 / NO / BHA			MTR HRS TO DATE: 0
			NOZZLES: 14, 14, 14, n/a: 0.451 in ² TFA

BHA: 3	HOLE SIZE: 8.75 in	SECTION TYPE: Curve	SURVEY TYPE: Positive Pulse MWD
MANFCT.: n/a	STABILIZER: n/a	SERIAL#: n/a	MODEL: n/a
SETTING: n/a °	KICKPAD: n/a	SIZE: n/a	LOBE CFG.: n/a
MANFCT: Hughes	BIT TYPE: Tri-Cone Bit	TYPE: VGD-38CH	MTR HRS THIS DAY: 0
IADC BIT GRADE: 2 / 2 / NO / 1 / E / 1 / NO / BHA			MTR HRS TO DATE: 0
			NOZZLES: 0.451 in ² TFA

PUMP PARAMETERS

PRESSURE ON BTM: 0	PRESSURE OFF BTM: 0	TOTAL FLOW RATE: 0.00 gal/min
PUMP 1: TYPE: PZ-11	EFF.: 95.0%	SPM: 0.00
PUMP 2: TYPE: PZ-11	EFF.: 95.0%	SPM: 0.00
PUMP 3: TYPE:	EFF.: 100.0%	SPM: 0.00
		LINER: 0.00 in
		LINER: 0.00 in
		LINER: 0.00 in
		STROKE VOL.: 0.0000 gal/stk
		STROKE VOL.: 0.0000 gal/stk
		STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:	VISC: 28 sec/qt	WTR LOSS: 0 cc/30min	PV: 1 cP	YP: 1 lb/100 ft ²	pH: 0
DENSITY: 8.7 lb/gal	GEL 0/10: 1.00 lb/100 ft ²	SAND: 0	SOLIDS: 0	OIL: 0	TEMP: 137 °F
LIQUID BASE: Water		LIQUID RATE: 0 gal/min	GAS TYPE:		GAS RATE: 0 cu ft/min

COMMENTS:

T.O.H.

Change motor with 2.60° Bend housing and the Bit.

Torqued the Motor stab Sleeve of the new motor.

Shallow Hole Test: 400GPM, 88SPM, 550 Psi.

R.I.H. @ 1335' where they started to have troubles with the Drawworks.

H&P Worked on it and continued to R.I.H. @ 5181'.



Daily Activity Report

Day 7 - 2013/06/30

Drilling Services
v4.2.2674

When they finished filling the pipe, the block picked up 2 feet and fall down by itself.
Right now they are working on the block and waiting for personal for fix the problem.
R.I.H.
Drilling ahead building the curve.

CUSTOMER SIGNATURE: _____

**Weatherford**

Daily Activity Report

Day 8 - 2013/07/01

Drilling Services
v4.2.2674

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Chris Shields

DIR Supervisor: Larry Brennan, Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 11256.0 ft

PROGRESS: 112.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 11368.0 ft

AVG. ROP.: 21.3 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:30	Orienting With Motor - 34' 10R	1.50	11290	3	06:30-06:45	Circ & Accumulate Surveys - 11,309' 59.32°349.59	0.25	11368	3
01:30-01:45	Circ & Accumulate Surveys - 11231' 46.44/348.95	0.25	11290	3	06:45-07:30	Circ Bottoms Up	0.75	11368	3
01:45-03:15	Orienting With Motor - 31' 15/20 GTF	1.50	11321	3	07:30-11:00	POOH To Change BHA	3.50	11368	3
03:15-03:30	Circ & Accumulate Surveys - 11262' 50.33/349.98	0.25	11321	3	11:00-13:00	Slip And Cut	2.00	11368	3
03:30-04:30	Orienting With Motor - 15' 15/20 GTF	1.00	11336	3	13:00-14:15	POOH To Change BHA - POOH@100'	1.25	11368	3
04:30-04:45	Circ & Accumulate Surveys - Check 53.62° 350.01	0.25	11336	3	14:15-14:45	Change Bit - Break Bit/PulloutMWD	0.50	11368	3
04:45-05:00	Orienting With Motor - 5'@15/20GTF	0.25	11342	3	14:45-15:15	Rig Service - Work on ST-80	0.50	11368	3
05:00-05:15	Circ & Accumulate Surveys - Check 54.97° 349.99	0.25	11342	3	15:15-16:00	Handle Directional Tools - Set mtr@1.83/Prg mwd	0.75	11368	4
05:15-05:30	Orienting With Motor - 11'@25R	0.25	11353	3	16:00-16:30	Shallow Test Tools - 400GPM,375Psi,90SPM	0.50	11368	4
05:30-05:45	Circ & Accumulate Surveys - 11,294' 56.27/349.84	0.25	11353	3	16:30-24:00	RIH - M/U Bit/RIH	7.50	11368	4
05:45-06:30	Orienting With Motor - 15'@25R	0.75	11368	3			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00
 TIME DRILL: 0.00
 MOTOR REAM: 0.00
 CIRC: 0.00
 MOTOR HRS: 0.00

ORIENTING HRS: 0.00
 ROTATING HRS: 0.00
 ROTARY DRILL: 5.25
 DRILL HRS: 5.25

ROTARY DRILL: 5.25
 MOTOR HRS: 0.00
 TRIP: 12.25
 OTHER: 6.50
 TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE:
 WOB SLIDING (HI): 50000 lbf
 WOB SLIDING (LO): 35000 lbf
 RPM (ROTARY):
 RPM (MOTOR): 145 rpm

STRING WEIGHT 0 lbs
 WOB ROTATE (HI): 0 lbf
 WOB ROTATE (LO): 0 lbf
 DRAG UP: 296000 lbf
 DRAG DN: 261000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 3

HOLE SIZE: 8.75 in

SECTION TYPE: Curve

SURVEY TYPE: Positive Pulse MWD

MANFCT.: n/a

STABILIZER: n/a

SERIAL#: n/a

MODEL: n/a

LOBE CFG.: n/a

SETTING: n/a °

KICKPAD: n/a

SIZE: n/a

MTR HRS THIS DAY: 0

MTR HRS TO DATE: 0

MANFCT: Hughes

BIT TYPE: Tri-Cone Bit

TYPE: VGD-38CH

NOZZLES: 0.451 in² TFA

IADC BIT GRADE: 2 / 2 / NO / 1 / E / 1 / NO / BHA

BHA: 4

HOLE SIZE: 8.75 in

SECTION TYPE: Lateral 1

SURVEY TYPE: Positive Pulse MWD

MANFCT.: n/a

STABILIZER: n/a

SERIAL#: n/a

MODEL: n/a

LOBE CFG.: n/a

SETTING: n/a °

KICKPAD: n/a

SIZE: n/a

MTR HRS THIS DAY: 0

MTR HRS TO DATE: 0

MANFCT: Hughes

BIT TYPE: PDC Bit

TYPE: T606X

NOZZLES: 0.662 in² TFA

IADC BIT GRADE: 1 / 1 / NO / A / X / 1 / NO / DMF

PUMP PARAMETERS

PRESSURE ON BTM: 2325

PRESSURE OFF BTM: 2200

TOTAL FLOW RATE: 500.00 gal/min

PUMP 1: TYPE: PZ-11

EFF.: 95.0%

SPM: 55.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 2: TYPE: PZ-11

EFF.: 95.0%

SPM: 55.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 3: TYPE:

EFF.: 100.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt

VISC: 9 sec/qt

WTR LOSS: 0 cc/30min

PV: 0 cP

YP: 0 lb/100 ft²

pH: 10

DENSITY: 8.7 lb/gal

GEL 0/10: 0.00 lb/100 ft²

SAND: 0

SOLIDS: 0

OIL: 0

TEMP: 0 °F

LIQUID BASE: Water

LIQUID RATE: 0 gal/min

GAS TYPE:

GAS RATE: 0 cu ft/min



Weatherford

Daily Activity Report

Drilling Services

v4.2.2674

Day 8 - 2013/07/01

COMMENTS:

Drilling ahead building the curve.

Drilled 112' with this BHA. We seen the first 31' and we get 18.57° Dog leg, so continued drilled 15 more feet and took a checkshot and gave us 20.38° Dog leg.

According to the last checkshot, we have 70.33° and 354.95 to the Bit, so we need to landing point 12.56° Dogleg.

-10' TVD = 9.37°

-15' TVD = 8.26°

-20' TVD = 7.38°

The engineer talked with the geologist and they say that we can landing 10' or 20' below, so they decided pull out of the hole and pick up the Lateral assembly with 1.83° to land and keep drilling the Lateral # 1.

POOH for change BHA.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services
v4.2.2674

Day 9 - 2013/07/02

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Jeff Foster, Chris Shields

DIR Supervisor: Larry Brennan, Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 11368.0 ft

PROGRESS: 902.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 12270.0 ft

AVG. ROP.: 44.4 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-01:30	Orienting With Motor - 19' 20R GTF	1.50	11387	4	13:45-14:00	Circ & Accumulate Surveys - 11576' 89.37° 359.03	0.25	11640	4
01:30-01:45	Circ & Accumulate Surveys - 11323' 62.43/349.90	0.25	11387	4	14:00-15:00	Orienting With Motor - 22@60R 30K,250Diff	1.00	11662	4
01:45-03:45	Orienting With Motor - 32' 20R GTF	2.00	11419	4	15:00-15:45	Rotating With Motor - 20Klb,50Rpm,400Diff	0.75	11734	4
03:45-04:00	Circ & Accumulate Surveys - 11355 67.32/350.60	0.25	11419	4	15:45-16:00	Circ & Accumulate Surveys - 11670' 91.33° 0.65	0.25	11734	4
04:00-06:30	Orienting With Motor - 31' HS 20k,30Diff	2.50	11450	4	16:00-17:00	Rotating With Motor - 20Klb,50Rpm,400Diff	1.00	11797	4
06:30-06:45	Circ & Accumulate Surveys - 11386' 70.37° 352.08	0.25	11450	4	17:00-17:15	Circ & Accumulate Surveys - 11733' 91.54/ 57	0.25	11797	4
06:45-07:45	Orienting With Motor - 32'@HS 20K,300Diff	1.00	11482	4	17:15-18:45	Rotating With Motor - WOB/35K RPM/60	1.50	11892	4
07:45-08:00	Circ & Accumulate Surveys - 11418' 73.91° 353	0.25	11482	4	18:45-19:00	Circ & Accumulate Surveys - 11828' 91.75/ 72	0.25	11892	4
08:00-09:15	Orienting With Motor - 31'@20R 20K,300Diff	1.25	11513	4	19:00-19:30	Rotating With Motor - WOB/35K RPM/60	0.50	11987	4
09:15-09:30	Circ & Accumulate Surveys - 11449' 77.36° 353.87	0.25	11513	4	19:30-19:45	Circ & Accumulate Surveys - 11859'	0.25	11987	4
09:30-10:45	Orienting With Motor - 32'@30R 20K,300Diff	1.25	11545	4	19:45-20:00	Orienting With Motor - 6' 150R	0.25	11993	4
10:45-11:00	Circ & Accumulate Surveys - 11481' 81.78° 354.37	0.25	11545	4	20:00-21:15	Rotating With Motor - WOB/35K RPM/60	1.25	12081	4
11:00-12:15	Orienting With Motor - 27'@60R 20k,300DIFF	1.25	11572	4	21:15-21:30	Circ & Accumulate Surveys - 12017'	0.25	12081	4
12:15-12:20	Rotating With Motor - 40Rpm,20Klb,450Diff	0.08	11577	4	21:30-22:15	Rotating With Motor - WOB/35K RPM/60	0.75	12176	4
12:20-12:30	Circ & Accumulate Surveys - 11513' 85.94° 355.14	0.17	11577	4	22:15-22:30	Circ & Accumulate Surveys - 12112	0.25	12176	4
12:30-13:00	Rotating With Motor - 40Rpm,20Klb,450Diff	0.50	11608	4	22:30-22:40	Rotating With Motor - WOB/35K RPM/60	0.17	12186	4
13:00-13:15	Circ & Accumulate Surveys - 11544' 88.88° 357.13	0.25	11608	4	22:40-23:30	Orienting With Motor - 23' 180 GTF	0.83	12209	4
13:15-13:45	Rotating With Motor - 40Rpm,20Klb,450Diff	0.50	11640	4	23:30-24:00	Rotating With Motor - WOB/35K RPM/60	0.50	12270	4

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00
 TIME DRILL: 0.00
 MOTOR REAM: 0.00
 CIRC: 0.00
 MOTOR HRS: 0.00

ORIENTING HRS: 0.00
 ROTATING HRS: 0.00
 ROTARY DRILL: 20.33
 DRILL HRS: 20.33

ROTARY DRILL: 20.33
 MOTOR HRS: 0.00
 TRIP: 0.00
 OTHER: 3.67
 TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE: 19500 ft-lb
 WOB SLIDING (HI): 40000 lbf
 WOB SLIDING (LO): 15000 lbf
 RPM (ROTARY): 60 rpm
 RPM (MOTOR): 145.00 rpm

STRING WEIGHT 295000 lbs
 WOB ROTATE (HI): 36000 lbf
 WOB ROTATE (LO): 25000 lbf
 DRAG UP: 310000 lbf
 DRAG DN: 255000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4
 MANFCT.: n/a
 SETTING: n/a °
 MANFCT: Hughes
 IADC BIT GRADE: 1 / 1 / NO / A / X / 1 / NO / DMF

HOLE SIZE: 8.75 in
 STABILIZER: n/a
 KICKPAD: n/a
 BIT TYPE: PDC Bit

SECTION TYPE: Lateral 1
 SERIAL#: n/a
 SIZE: n/a
 TYPE: T606X

SURVEY TYPE: Positive Pulse MWD
 MODEL: n/a
 MTR HRS THIS DAY: 0
 NOZZLES: 0.662 in² TFA

LOBE CFG.: n/a
 MTR HRS TO DATE: 0

PUMP PARAMETERS

PRESSURE ON BTM: 2275
 PUMP 1: TYPE: PZ-11
 PUMP 2: TYPE: PZ-11
 PUMP 3: TYPE:

PRESSURE OFF BTM: 1775
 EFF.: 95.0%
 EFF.: 95.0%
 EFF.: 100.0%

SPM: 58.00
 SPM: 58.00
 SPM: 0.00

LINER: 6.50 in
 LINER: 6.50 in
 LINER: 0.00 in

TOTAL FLOW RATE: 505.00 gal/min
 STROKE VOL.: 4.5112 gal/stk
 STROKE VOL.: 4.5112 gal/stk
 STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt
 DENSITY: 8.7 lb/gal
 LIQUID BASE: Water

VISC: 28 sec/qt
 GEL 0/10: 0.00 lb/100 ft²

WTR LOSS: 0 cc/30min
 SAND: 0
 LIQUID RATE: 0 gal/min

PV: 1 cP
 SOLIDS: 0
 GAS TYPE:

YP: 1 lb/100 ft²
 OIL: 0
 GAS RATE: 0 cu ft/min

pH: 10
 TEMP: 0 °F



Weatherford

Daily Activity Report

Day 9 - 2013/07/02

Drilling Services
v4.2.2674

COMMENTS:

Drilling ahead building the curve.
During the curve we get 11.46°/100' Average, We land 7.98' below with a 100% Slide.
Drilling Lateral.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Day 10 - 2013/07/03

Drilling Services

v4.2.2674

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Chris Shields, Wade Kelsoe

DIR Supervisor: Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

START DEPTH: 12270.0 ft

PROGRESS: 775.0 ft

DAILY COST: USD\$0.00

KB ELEV: 3686 ft

END DEPTH: 13045.0 ft

AVG. ROP.: 73.8 ft/hr

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:15	Circ & Accumulate Surveys - 12206' 89.86/1.41	0.25	12270	4	08:30-09:15	Rotating With Motor - 60Rpm,32Klb,450Diff	0.75	12838	4
00:15-01:00	Rotating With Motor - WOB/35K RPM/60	0.75	12365	4	09:15-09:30	Circ & Accumulate Surveys - 12774' 89.51° 1.28	0.25	12838	4
01:00-01:15	Circ & Accumulate Surveys - 12301'	0.25	12365	4	09:30-10:15	Rotating With Motor - 60Rpm,32Klb,450Diff	0.75	12933	4
01:15-02:15	Rotating With Motor - WOB/35K RPM/60	1.00	12459	4	10:15-10:30	Circ & Accumulate Surveys - 12869' 89.65° 1.60	0.25	12933	4
02:15-02:30	Circ & Accumulate Surveys - 12395' 90.49/1.63	0.25	12459	4	10:30-11:30	Rotating With Motor - 60Rpm,38Klb,450Diff	1.00	13027	4
02:30-03:25	Rotating With Motor - WOB/32K RPM/60	0.92	12554	4	11:30-11:45	Circ & Accumulate Surveys - 12963' 88.39° 1.97	0.25	13027	4
03:25-03:40	Circ & Accumulate Surveys - 12490' 90.84/1.78	0.25	12554	4	11:45-12:15	Circulating - See Comments - swap pumps/ Sweep	0.50	13027	4
03:40-04:50	Rotating With Motor - WOB/32K RPM/60	1.17	12648	4	12:15-12:30	Rotating With Motor - 32Klb,60Rpm,450Diff	0.25	13037	4
04:50-05:05	Circ & Accumulate Surveys - 12584' 91.47/1.83	0.25	12648	4	12:30-13:15	Orienting With Motor - 8'@340L 25k,100Diff	0.75	13045	4
05:05-06:30	Rotating With Motor - WOB/32K RPM/60	1.42	12743	4	13:15-14:15	Circ Bottoms Up	1.00	13045	4
06:30-06:45	Circ & Accumulate Surveys - 12679'	0.25	12743	4	14:15-23:30	POOH For Motor	9.25	13045	4
06:45-07:00	Rotating With Motor - Rot 10' / Work Pipe	0.25	12753	4	23:30-24:00	Undefined - See Comments - H2S alarms set off	0.50	13045	4
07:00-08:30	Orienting With Motor - 22'@170L 50K,50Diff	1.50	12775	4			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00

ORIENTING HRS: 0.00

ROTARY DRILL: 10.50

TIME DRILL: 0.00

ROTATING HRS: 0.00

MOTOR HRS: 0.00

MOTOR REAM: 0.00

TRIP: 9.25

WOB SLIDING (LO): 20000 lbf

CIRC: 0.00

ROTARY DRILL: 10.50

OTHER: 4.25

DRILLING PARAMETERS:

ROTARY TORQUE: 20500 ft-lb

STRING WEIGHT 0 lbs

WOB SLIDING (HI): 45000 lbf

WOB ROTATE (HI): 36000 lbf

WOB SLIDING (LO): 20000 lbf

WOB ROTATE (LO): 30000 lbf

RPM (ROTARY): 60 rpm

DRAG UP: 320000 lbf

RPM (MOTOR): 181.25 rpm

DRAG DN: 225000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4

HOLE SIZE: 8.75 in

SECTION TYPE: Lateral 1

SURVEY TYPE: Positive Pulse MWD

MANFCT.: n/a

STABILIZER: n/a

SERIAL#: n/a

MODEL: n/a

LOBE CFG.: n/a

SETTING: n/a °

KICKPAD: n/a

SIZE: n/a

MTR HRS THIS DAY: 0

MTR HRS TO DATE: 0

MANFCT: Hughes

BIT TYPE: PDC Bit

TYPE: T606X

NOZZLES: 0.662 in² TFA

IADC BIT GRADE: 1 / 1 / NO / A / X / 1 / NO / DMF

PUMP PARAMETERS

PRESSURE ON BTM: 3150

PRESSURE OFF BTM: 2650

TOTAL FLOW RATE: 625.00 gal/min

PUMP 1: TYPE: PZ-11

EFF.: 95.0%

SPM: 72.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 2: TYPE: PZ-11

EFF.: 95.0%

SPM: 71.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 3: TYPE:

EFF.: 100.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt

VISC: 28 sec/qt

WTR LOSS: 0 cc/30min

PV: 0 cP

YP: 0 lb/100 ft²

pH: 11

DENSITY: 9 lb/gal

GEL 0/10: 0.00 lb/100 ft²

SAND: 0

SOLIDS: 0

OIL: 0

TEMP: 0 °F

LIQUID BASE: Water

LIQUID RATE: 0 gal/min

GAS TYPE:

GAS RATE: 0 cu ft/min

COMMENTS:

Midnight depth: 12,270'

Drilling ahead with Lateral.

3:00 am

We lost pump number 1, and are drilling on one pump with 500 GPM's @ 12,500'



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Daily Activity Report

Day 10 - 2013/07/03

Drilling Services
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4:00am Back on two pumps. 600 GPM's @ 12,569'

Continued drilling the lateral until 13027' where the pressure increase 800 Psi off bottom (2700 psi to 3500 psi). Swap the pumps and used only 1 for discard some problem on the pumps, used 500 GPM and the pressure continue oscilate (1950psi to 2400 psi off bottom). Pump a sweep and the pressure was decreased again to slow.

Rotate 10' and the motor started to stalling. Attempt slide and the pressure was changed again to up and down, we slid 8 feet and the motor stall, pick up 10 feet and observed that the pressure goes to 3500' and drops by it self off bottom in several ocations.

Decided to pull out of hole and Change Motor.

H2S alarms set off at 23:30...Stopped TOOH.

CUSTOMER SIGNATURE: _____

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Daily Activity Report

Drilling Services

v4.2.2674

Day 11 - 2013/07/04

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Wade Kelsoe, Chris Shields

DIR Supervisor: Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

KB ELEV: 3686 ft

START DEPTH: 13045.0 ft

END DEPTH: 13374.0 ft

PROGRESS: 329.0 ft

AVG. ROP.: 69.3 ft/hr

DAILY COST: USD\$0.00

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPTH	BHA	TIME	DAILY ACTIVITY	HRS	DPTH	BHA
00:00-00:30	Other - See Comments - Waiting on Safty	0.50	13045	4	17:00-18:00	Orienting With Motor - 22'@340 45K,350Diff	1.00	13082	5
00:30-02:45	Change Bit And Motor	2.25	13045	4	18:00-18:45	Rotating With Motor - WOB/38 RPM/70	0.75	13145	5
02:45-05:15	Handle Directional Tools - L/D & P/U MM	2.50	13045	5	18:45-19:00	Circ & Accumulate Surveys - 13080' 89.44/1.81	0.25	13145	5
05:15-05:30	Shallow Test Tools	0.25	13045	5	19:00-19:15	Rotating With Motor - WOB/38 RPM/70	0.25	13155	5
05:30-06:00	RIH With New BHA - Bit/MM/Agtr	0.50	13045	5	19:15-20:15	Orienting With Motor - 30' @345(15L) 45k	1.00	13185	5
06:00-15:30	RIH With New BHA	9.50	13045	5	20:15-21:00	Rotating With Motor - WOB/38 RPM/70	0.75	13239	5
15:30-15:45	Wash To Bottom	0.25	13045	5	21:00-22:00	Rig Service - Chng out Rot head	1.00	13239	5
15:45-16:00	Rotating With Motor - 60Rpm,30Klb,500Diff	0.25	13050	5	22:00-22:15	Circ & Accumulate Surveys - 13175'	0.25	13239	5
16:00-16:15	Rig Service	0.25	13050	5	22:15-23:00	Rotating With Motor - WOB/38 RPM/70	0.75	13374	5
16:15-16:30	Circ & Accumulate Surveys - 12,986' 88.04° 2.22	0.25	13050	5	23:00-24:00	Rig Repair - TOP drive packing	1.00	13374	5
16:30-17:00	Circulating - See Comments - Swap	0.50	13050	5			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00
 TIME DRILL: 0.00
 MOTOR REAM: 0.00
 CIRC: 0.00
 MOTOR HRS: 0.00

ORIENTING HRS: 0.00
 ROTATING HRS: 0.00
 ROTARY DRILL: 4.75
 DRILL HRS: 4.75

ROTARY DRILL: 4.75
 MOTOR HRS: 0.00
 TRIP: 10.00
 OTHER: 9.25
 TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE:
 WOB SLIDING (HI): 45000 lbf
 WOB SLIDING (LO): 30000 lbf
 RPM (ROTARY): 70 rpm
 RPM (MOTOR): 181.25 rpm

STRING WEIGHT 0 lbs
 WOB ROTATE (HI): 38000 lbf
 WOB ROTATE (LO): 30000 lbf
 DRAG UP: 0 lbf
 DRAG DN: 0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 4
 MANFCT.: n/a
 SETTING: n/a °
 MANFCT: Hughes
 IADC BIT GRADE: 1 / 1 / NO / A / X / 1 / NO / DMF

HOLE SIZE: 8.75 in
 STABILIZER: n/a
 KICKPAD: n/a
 BIT TYPE: PDC Bit

SECTION TYPE: Lateral 1
 SERIAL#: n/a
 SIZE: n/a
 TYPE: T606X

SURVEY TYPE: Positive Pulse MWD
 MODEL: n/a
 MTR HRS THIS DAY: 0
 NOZZLES: 0.662 in² TFA

LOBE CFG.: n/a
 MTR HRS TO DATE: 0

BHA: 5
 MANFCT.: n/a
 SETTING: n/a °
 MANFCT: Hughes
 IADC BIT GRADE: 1 / 2 / ? / ? / X / ? / ? / TD

HOLE SIZE: 8.75 in
 STABILIZER: n/a
 KICKPAD: n/a
 BIT TYPE: PDC Bit

SECTION TYPE: Lateral 2
 SERIAL#: n/a
 SIZE: n/a
 TYPE: T606X

SURVEY TYPE: Positive Pulse MWD
 MODEL: n/a
 MTR HRS THIS DAY: 0
 NOZZLES: 0.662 in² TFA

LOBE CFG.: n/a
 MTR HRS TO DATE: 0

PUMP PARAMETERS

PRESSURE ON BTM: 3750

PRESSURE OFF BTM: 3450

TOTAL FLOW RATE: 625.00 gal/min

PUMP 1: TYPE: PZ-11

EFF.: 95.0%

SPM: 70.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 2: TYPE: PZ-11

EFF.: 95.0%

SPM: 70.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 3: TYPE:

EFF.: 100.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt

VISC: 28 sec/qt

WTR LOSS: 0 cc/30min

PV: 1 cP

YP: 2 lb/100 ft²

pH: 8.5

DENSITY: 8.8 lb/gal

GEL 0/10: 1.00 lb/100 ft²

SAND: 0

SOLIDS: 3

OIL: 0

TEMP: 0 °F

LIQUID BASE: Water

LIQUID RATE: 625 gal/min

GAS TYPE:

GAS RATE: 0 cu ft/min



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Daily Activity Report

Drilling Services

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Day 11 - 2013/07/04

COMMENTS:

H2S Alarm and wait on safety.
Continue POOH.
Change motor and MWD String.
Shallow Hole Test, Ok.
RIH with New BHA.
Drilling Lateral.

16:00 - 24:00 Drilled F/ 13,045' - 13,274'

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Day 12 - 2013/07/05**Drilling Services**

v4.2.2674

FILE #: 4029823**JOB TYPE:****RIG & NO:** H & P 416**WELL NAME:** Thistle Unit 44H**COMPANY:** Devon Energy Corp**SURFACE LOCATION:** 350' FSL & 1980' FWL**SERVICE CO.:** Weatherford**SURVEY TYPE:** Positive Pulse MWD**FIELD / LOCATION:** Delaware Basin / New Mexico / USA**Company Man:** Wade Kelsoe, Chris Shields**DIR Supervisor:** Jesus Ramirez, Rene Rosas**MWD Supervisor:** Dave Latch, Derrick Brown**GROUND ELEV:** 3661 ft**START DEPTH:** 13374.0 ft**PROGRESS:** 1570.0 ft**DAILY COST:** USD\$0.00**KB ELEV:** 3686 ft**END DEPTH:** 14944.0 ft**AVG. ROP.:** 82.6 ft/hr**PREVIOUS COST:** USD\$0.00**TOTAL COST:** USD\$0.00**WORK STATUS:** Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPH	BHA	TIME	DAILY ACTIVITY	HRS	DPH	BHA
00:00-00:45	Rotating With Motor - WOB/38 RPM/70	0.75	13334	5	12:45-13:00	Circ & Accumulate Surveys - 14122' 92.17° 1.36	0.25	14186	5
00:45-01:00	Circ & Accumulate Surveys - 13270' 91.82/ .87	0.25	13334	5	13:00-13:05	Rotating With Motor - 70Rpm,38Klb,450Diff	0.08	14194	5
01:00-02:00	Rotating With Motor - WOB/39K RPM/70	1.00	13428	5	13:05-13:30	Orienting With Motor - 21'@220 45k,400Diff	0.42	14215	5
02:00-02:15	Circ & Accumulate Surveys - 13364' 91.75/ .64	0.25	13428	5	13:30-14:15	Rotating With Motor - 70Rpm,38Klb,450Diff	0.75	14280	5
02:15-04:00	Rotating With Motor - WOB/39K RPM/70	1.75	13523	5	14:15-14:45	Rig Service	0.50	14280	5
04:00-04:15	Circ & Accumulate Surveys - 13459'	0.25	13523	5	14:45-15:00	Circ & Accumulate Surveys - 14216' 91.05° 359.99	0.25	14280	5
04:15-05:25	Rotating With Motor - WOB/39K RPM/70	1.17	13618	5	15:00-16:00	Rotating With Motor - 70Rpm,38Klb,450Diff	1.00	14375	5
05:25-05:40	Circ & Accumulate Surveys - 13554'	0.25	13618	5	16:00-16:15	Circ & Accumulate Surveys - 14311' 91.12° 0.21°	0.25	14375	5
05:40-06:00	Orienting With Motor - 11' 290L	0.33	13618	5	16:15-17:15	Rotating With Motor - 70Rpm,38Klb,450Diff	1.00	14470	5
06:00-07:00	Rotating With Motor - 70Rpm,38Klb,450Diff	1.00	13712	5	17:15-17:30	Circ & Accumulate Surveys - 14406' 91.12° 359.35	0.25	14470	5
07:00-07:15	Circ & Accumulate Surveys - 13648' 91.40° 0.54	0.25	13712	5	17:30-18:15	Rotating With Motor - 70Rpm,42Klb,450Diff	0.75	14565	5
07:15-08:00	Rotating With Motor - 70Rpm,38Klb,450Diff	0.75	13807	5	18:15-18:30	Circ & Accumulate Surveys - 14501' 91.61/359.23	0.25	14565	5
08:00-08:15	Circ & Accumulate Surveys - 13743' 91.61° 1.02	0.25	13807	5	18:30-19:30	Rotating With Motor - 70Rpm,42Klb,450Diff	1.00	14660	5
08:15-09:15	Rotating With Motor - 70Rpm,38Klb,450Diff	1.00	13902	5	19:30-19:45	Circ & Accumulate Surveys - 14596' 92.10/359.15	0.25	14660	5
09:15-09:30	Circ & Accumulate Surveys - 13838' 92.17° 1.08	0.25	13902	5	19:45-20:45	Rotating With Motor - 70Rpm,42Klb,450Diff	1.00	14755	5
09:30-10:15	Rotating With Motor - 70Rpm,38Klb,450Diff	0.75	13996	5	20:45-21:00	Circ & Accumulate Surveys - 14691' 92.52/358.85	0.25	14755	5
10:15-10:30	Circ & Accumulate Surveys - 13932' 93.08° 1.59	0.25	13996	5	21:00-22:00	Rotating With Motor - 70Rpm,42Klb,450Diff	1.00	14849	5
10:30-10:35	Rotating With Motor - 70Rpm,38Klb,450Diff	0.08	14006	5	22:00-22:15	Circ & Accumulate Surveys - 14785' 93.15/358.70	0.25	14849	5
10:35-11:00	Orienting With Motor - 22'@200 45K,400Diff	0.42	14028	5	22:15-22:25	Rotating With Motor - 70Rpm,42Klb,450Diff	0.17	14859	5
11:00-11:45	Rotating With Motor - 70Rpm,38Klb,450Diff	0.75	14091	5	22:25-23:00	Orienting With Motor - 20' 150	0.58	14879	5
11:45-12:00	Circ & Accumulate Surveys - 14027' 91.33° 0.98	0.25	14091	5	23:00-23:45	Rotating With Motor - 70Rpm,42Klb,450Diff	0.75	14944	5
12:00-12:45	Rotating With Motor - 70Rpm,38Klb,450Diff	0.75	14186	5	23:45-24:00	Circ & Accumulate Surveys - 14880'	0.25	14944	5

TIME SUMMARY (hrs):

MOTOR DRILL:	0.00	ORIENTING HRS:	0.00
TIME DRILL:	0.00	ROTATING HRS:	0.00
MOTOR REAM:	0.00	TRIP:	0.00
CIRC:	0.00	ROTARY DRILL:	19.00
MOTOR HRS:	0.00	DRILL HRS:	19.00

ROTARY DRILL:	19.00
MOTOR HRS:	0.00
TRIP:	0.00
OTHER:	5.00
TOTAL HRS:	24.00

DRILLING PARAMETERS:

ROTARY TORQUE:	20500 ft-lb	STRING WEIGHT	23500 lbs
WOB SLIDING (HI):	45000 lbf	WOB ROTATE (HI):	42000 lbf
WOB SLIDING (LO):	25000 lbf	WOB ROTATE (LO):	30000 lbf
RPM (ROTARY):	70 rpm	DRAG UP:	360000 lbf
RPM (MOTOR):	181.25 rpm	DRAG DN:	180000 lbf

BHA / MOTOR / BIT INFORMATION:**BHA:** 5**HOLE SIZE:** 8.75 in**SECTION TYPE:** Lateral 2**SURVEY TYPE:** Positive Pulse MWD**MANFCT.:** n/a**STABILIZER:** n/a**SERIAL#:** n/a**MODEL:** n/a**LOBE CFG.:** n/a**SETTING:** n/a °**KICKPAD:** n/a**SIZE:** n/a**MTR HRS THIS DAY:** 0**MTR HRS TO DATE:** 0**MANFCT:** Hughes**BIT TYPE:** PDC Bit**TYPE:** T606X**NOZZLES:** 0.662 in² TFA**IADC BIT GRADE:** 1 / 2 / ? / ? / X / ? / ? / TD



Weatherford

Daily Activity Report

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Day 12 - 2013/07/05

PUMP PARAMETERS

PRESSURE ON BTM: 3700

PRESSURE OFF BTM: 3450

TOTAL FLOW RATE: 625.00 gal/min

PUMP 1: TYPE: PZ-11

EFF.: 95.0%

SPM: 70.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 2: TYPE: PZ-11

EFF.: 95.0%

SPM: 70.00

LINER: 6.50 in

STROKE VOL.: 4.5112 gal/stk

PUMP 3: TYPE:

EFF.: 100.0%

SPM: 0.00

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: Brine or Salt

VISC: 29 sec/qt

WTR LOSS: 0 cc/30min

PV: 1 cP

YP: 2 lb/100 ft²

pH: 8.5

DENSITY: 8.8 lb/gal

GEL 0/10: 1.00 lb/100 ft²

SAND: 0

SOLIDS: 3

OIL: 0

TEMP: 0 °F

LIQUID BASE: Water

LIQUID RATE: 0 gal/min

GAS TYPE:

GAS RATE: 0 cu ft/min

COMMENTS:

Drilling Lateral. Midnight depth 14,944'

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Drilling Services

v4.2.2674

Day 13 - 2013/07/06

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Wade Kelsoe, Chris Shields

DIR Supervisor: Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

KB ELEV: 3686 ft

START DEPTH: 14944.0 ft

END DEPTH: 15666.0 ft

PROGRESS: 722.0 ft

AVG. ROP.: 67.7 ft/hr

DAILY COST: USD\$0.00

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPH	BHA	TIME	DAILY ACTIVITY	HRS	DPH	BHA
00:00-01:10	Rotating With Motor - WOB/38k RPM/70	1.17	15039	5	07:00-08:15	Rotating With Motor - WOB/38k RPM/70	1.25	15418	5
01:10-01:25	Circ & Accumulate Surveys - 14975'	0.25	15039	5	08:15-08:30	Circ & Accumulate Surveys - 15354' 89.58° 359.79	0.25	15418	5
01:25-01:35	Rotating With Motor - WOB/38k RPM/70	0.17	15049	5	08:30-09:45	Rotating With Motor - WOB/38k RPM/70	1.25	15512	5
01:35-02:15	Orienting With Motor - 25' @ 160	0.67	15074	5	09:45-10:00	Circ & Accumulate Surveys - 15448' 89.65° 0.11	0.25	15512	5
02:15-02:55	Rotating With Motor - WOB/32k RPM/70	0.67	15134	5	10:00-11:30	Rotating With Motor - WOB/38k RPM/70	1.50	15607	5
02:55-03:15	Circ & Accumulate Surveys - @ 15070' 92.66/1.34	0.33	15134	5	11:30-11:45	Circ & Accumulate Surveys - 15543' 90.07° 359.86	0.25	15607	5
03:15-04:45	Orienting With Motor - 40' 180	1.50	15174	5	11:45-12:30	Rotating With Motor - WOB/38k RPM/70	0.75	15666	5
04:45-05:30	Rotating With Motor - WOB/32k RPM/70	0.75	15228	5	12:30-12:45	Circ & Accumulate Surveys - 15601' 90.28° 359.61	0.25	15666	5
05:30-05:45	Circ & Accumulate Surveys - 15164'	0.25	15228	5	12:45-19:00	Circ & Condition Hole	6.25	15666	5
05:45-06:45	Rotating With Motor - WOB/38k RPM/70	1.00	15323	5	19:00-24:00	POOH - See Comments - TD	5.00	15666	5
06:45-07:00	Circ & Accumulate Surveys - 15259' 89.58° 0.06	0.25	15323	5			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00

TIME DRILL: 0.00

MOTOR REAM: 0.00

CIRC: 0.00

MOTOR HRS: 0.00

ORIENTING HRS: 0.00

ROTATING HRS: 0.00

ROTARY DRILL: 10.67

ROTARY DRILL: 10.67

DRILL HRS: 10.67

ROTARY DRILL: 10.67

MOTOR HRS: 0.00

TRIP: 5.00

OTHER: 8.33

TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE: 26000 ft-lb

WOB SLIDING (HI): 50000 lbf

WOB SLIDING (LO): 25000 lbf

RPM (ROTARY): 70 rpm

RPM (MOTOR): 174.00 rpm

STRING WEIGHT 272000 lbs

WOB ROTATE (HI): 38000 lbf

WOB ROTATE (LO): 25000 lbf

DRAG UP: 375000 lbf

DRAG DN: 190000 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 5

MANFCT.: n/a

SETTING: n/a °

MANFCT: Hughes

IADC BIT GRADE: 1 / 2 / ? / ? / X / ? / ? / TD

HOLE SIZE: 8.75 in

STABILIZER: n/a

KICKPAD: n/a

BIT TYPE: PDC Bit

SECTION TYPE: Lateral 2

SERIAL#: n/a

SIZE: n/a

TYPE: T606X

SURVEY TYPE: Positive Pulse MWD

MODEL: n/a

MTR HRS THIS DAY: 0

NOZZLES: 0.662 in² TFA

LOBE CFG.: n/a

MTR HRS TO DATE: 0

PUMP PARAMETERS

PRESSURE ON BTM: 3700

PUMP 1: TYPE: PZ-11

PUMP 2: TYPE: PZ-11

PUMP 3: TYPE:

PRESSURE OFF BTM: 3450

EFF.: 95.0%

EFF.: 95.0%

EFF.: 100.0%

SPM: 70.00

SPM: 70.00

SPM: 0.00

TOTAL FLOW RATE: 599.99 gal/min

LINER: 6.50 in

LINER: 6.50 in

LINER: 0.00 in

STROKE VOL.: 4.5112 gal/stk

STROKE VOL.: 4.5112 gal/stk

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:

DENSITY: 8.8 lb/gal

LIQUID BASE: Water

VISC: 28 sec/qt

GEL 0/10: 1.00 lb/100 ft²

WTR LOSS: 0 cc/30min

SAND: 0

LIQUID RATE: 0 gal/min

PV: 1 cP

SOLIDS: 0

GAS TYPE:

YP: 2 lb/100 ft²

OIL: 0

GAS RATE: 0 cu ft/min

pH: 8.3

TEMP: 0 °F

COMMENTS:

Drill Lateral to TD.
Circulate.

CUSTOMER SIGNATURE:

**Weatherford**

Daily Activity Report

Day 14 - 2013/07/07

Drilling Services

v4.2.2674

FILE #: 4029823

JOB TYPE:

RIG & NO: H & P 416

WELL NAME: Thistle Unit 44H

COMPANY: Devon Energy Corp

SURFACE LOCATION: 350' FSL & 1980' FWL

SERVICE CO.: Weatherford

SURVEY TYPE: Positive Pulse MWD

FIELD / LOCATION: Delaware Basin / New Mexico / USA

Company Man: Wade Kelsoe, Chris Shields

DIR Supervisor: Jesus Ramirez, Rene Rosas

MWD Supervisor: Dave Latch, Derrick Brown

GROUND ELEV: 3661 ft

KB ELEV: 3686 ft

START DEPTH: 15666.0 ft

END DEPTH: 15666.0 ft

PROGRESS: 0.0 ft

AVG. ROP.: 0.0 ft/hr

DAILY COST: USD\$0.00

PREVIOUS COST: USD\$0.00

TOTAL COST: USD\$0.00

WORK STATUS: Operating

(All units are imperial.)

TIME	DAILY ACTIVITY	HRS	DPH	BHA	TIME	DAILY ACTIVITY	HRS	DPH	BHA
00:00-20:00	POOH - See Comments - L/Y DOWN DP	20.00	15666	5	21:30-24:00	Travel Home	2.50	15666	5
20:00-21:30	Other - See Comments - load tools hotshot	1.50	15666	5			0.00		

TIME SUMMARY (hrs):

MOTOR DRILL: 0.00

TIME DRILL: 0.00

MOTOR REAM: 0.00

CIRC: 0.00

MOTOR HRS: 0.00

ORIENTING HRS: 0.00

ROTATING HRS: 0.00

ROTARY DRILL: 0.00

ROTARY DRILL: 0.00

DRILL HRS: 0.00

ROTARY DRILL: 0.00

MOTOR HRS: 0.00

TRIP: 20.00

OTHER: 4.00

TOTAL HRS: 24.00

DRILLING PARAMETERS:

ROTARY TORQUE:

WOB SLIDING (HI): 0 lbf

WOB SLIDING (LO): 0 lbf

RPM (ROTARY):

RPM (MOTOR):

STRING WEIGHT 0 lbs

WOB ROTATE (HI): 0 lbf

WOB ROTATE (LO): 0 lbf

DRAG UP: 0 lbf

DRAG DN: 0 lbf

BHA / MOTOR / BIT INFORMATION:

BHA: 5

MANFCT.: n/a

SETTING: n/a °

MANFCT: Hughes

IADC BIT GRADE: 1 / 2 / ? / ? / X / ? / ? / TD

HOLE SIZE: 8.75 in

STABILIZER: n/a

KICKPAD: n/a

BIT TYPE: PDC Bit

SECTION TYPE: Lateral 2

SERIAL#: n/a

SIZE: n/a

TYPE: T606X

SURVEY TYPE: Positive Pulse MWD

LOBE CFG.: n/a

MODEL: n/a

MTR HRS THIS DAY: 0

NOZZLES: 0.662 in² TFA

MTR HRS TO DATE: 0

PUMP PARAMETERS

PRESSURE ON BTM: 0

PUMP 1: TYPE: PZ-11

PUMP 2: TYPE: PZ-11

PUMP 3: TYPE:

PRESSURE OFF BTM: 0

EFF.: 95.0%

EFF.: 95.0%

EFF.: 100.0%

SPM: 0.00

SPM: 0.00

SPM: 0.00

TOTAL FLOW RATE: 0.00 gal/min

LINER: 0.00 in

LINER: 0.00 in

LINER: 0.00 in

STROKE VOL.: 0.0000 gal/stk

STROKE VOL.: 0.0000 gal/stk

STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE:

DENSITY: 0 lb/gal

LIQUID BASE:

VISC: 0 sec/qt

GEL 0/10: 0.00 lb/100 ft²

WTR LOSS: 0 cc/30min

SAND: 0

LIQUID RATE: 0 gal/min

PV: 0 cP

SOLIDS: 0

GAS TYPE:

YP: 0 lb/100 ft²

OIL: 0

pH: 0

TEMP: 0 °F

GAS RATE: 0 cu ft/min

COMMENTS:

POOH SIDE WAYS. WE SHOULD BE OUT OF THE HOLE THIS EVENING.

CUSTOMER SIGNATURE:



Weatherford®

Devon Energy
Thistle Unit 44H
Lea County, New Mexico

Section 6

Weatherford Directional Services

Midland District Personnel



Drilling Systems & MWD Personnel

Damien Tarpley	Area Manager	Office (432) 561-8892 Cell (806) 549-0900
Orry Armendariz	Directional Drilling Coordinator Supervise Directional Drillers and daily rig operations.	Office (432) 561-8892 Cell (432) 290-1644
Jesse Aguilar	MWD Coordinator Supervise MWD Personnel and daily rig operations.	Office (432) 561-8892 Cell (432) 202-1807
Scott Dixon	Account Manager Customer support at its best.	Office (405) 720-4270
Jayme Wilson	Administrative Assistant Customer billing/invoicing_Midland, TX	Office (432) 561-8892

Russell W. Joyner	Well Planning	Office (281) 260-1419 Cell (713) 303-5511
Responsible for well preplanning and provide technical support during job.		

Sammy Dominguez	R&M Shop Services	Office (432) 561-8892 (432) 661-5939
Responsible for monitoring downhole tool performance and evaluating field incidents.		