

EP ENERGY

Daily Drilling
Report Onshore

Well Name/Wellbore No.:
UNIVERSITY EAST 4411GH/OH

Country: USA
State/OCSG: TEXAS
Field/Permit#: WOLF CAMP EAST
Supervisors: JOE WILKERSON / BRANDON GREEN
Engineer/Manager: ESPARZA, JESSE / EVANS, PERRY

Report Number: 002
Report Date: 05/30/2014
Spud Date:
Release Date:
DFS: 0.00
DOL: 1
AFE Days: 16
Last BOP T.:
Safety & Environmental Incident: No

Depth md/tvd (ft): 916.00/ 915.90
Progress:
ROP: / = 0.00
Proposed TD (ft): 15,200.00
Next Csg Point (ft): 15,000.03

Rig: SIDEWINDER/222
Rig Phone: 713-997-1245
RKB (ft): 2,688.01
Ground Level (ft): 2,663.0
POB: 36
Total Man Hours: 390.00

AFE #:
Day Cost(\$): 206,521
Cum Cost(\$): 468,188
AFE(\$): 0

Drilg: 160694/51659
Comp: 0
Fac: 0
Total: 206,521
468,188
0

Current Activity: TESTING BOP'S.
24 Hr Summary: WALK RIG OVER WELL CENTER, R/U, NU & TEST BOP'S.
24 Hr Forecast: FINISH TESTING BOP'S & FLOOR EQUIPMENT, TEST CASING, CHANGE OUT SAVER SUB, REPAIR DRAW WORKS, CUT DRILLINE, P/U SIDE BUILD ASSY, DISPLACE WITH OBM.

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: JONATHAN MEEKS
Time: 10:42
Location: JCTION TANK
Pit Temp ("F): 0
Depth (ft): 916.00
Density (ppg): 9.25
FV (s/qt): 60
PV (cp): 15
YP (lbf/100ft²): 15
Gels (l): 12/16/18
WL (cc/30min): 10.80
HTHP ("F): 250
Cake (32nd"): 2.00
Solids (lbm/bbl): 77
ECD (ppg): 9.3

MUD MATERIALS

D M Cost(\$): \$0.00
C M Cost(\$): \$0.00
Mud Additives
Used

Oil Cnt (%): 73
H2O Cnt (%): 27
Sand Cnt (%): 0.25
MBT (lbm/bbl): 0.0
pH: 0.0
Pm (cc): 0.0
Pf (cc)/Mf (cc): 0.0 / 0.0
Chloride (ppm): 0
Calcium (ppm): 0.00
LCM (lbm/bbl): 0.0
ES (mV): 492.0
LGS (%): 6.60
Ex Lime (ppb): 3.8
OWR: 73.0 / 27.0

MUD LOGGING

Trip Gas (units): @
Conn Gas (units) @
Form:

BG Gas (units):
Pore Pressure: (%)

Surf to Surf:
Lag Strokes:
Lag Time: (min)

BIT RECORD

Bit# S/N
Size (in)
Mfg
IADC Type
Model #
Jets
Depth In (ft)
Depth Out (ft)
Bit Rotations
On Btm Hrs Cum
Footage Cum (ft)
ROP Cum
WOB mn/mx (kip)
RPM rot/bit
Bit HP
HSI
PSI Drop (psi)
Jet Vel (ft/s)
Imp Force

Grading: I O D L B G O R
Bit #
Bit #

CASING

Size(in) MD(ft)/TVD(ft) FIT/LTOT(ppg)
13.38 65.00 / 65.00
9.63 916.00 / 916.00
5.50 15,000.03 / 7,000.01

INVENTORY

Item Inv
DIESEL 12,216
MUD DIESEL 9,045

SOLIDS CONTROL

Skr Deck 1 Screens Deck 2 Screens
1 100///
2 100///

MUD PUMPS

#1 #2 #3
Pump Type:
Liner ID:
SPM:
GPM:
SPR:
1 SPM:
Pressure:
2 SPM:
Pressure:
T GPM (gpm): SPP (psi):
AV (DC): AV (DP):

SURVEYS

MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft)
225 0.42 279.76 225 0.33 -1.10 0.34 0.08
325 0.26 254.94 325 0.33 -1.68 0.34 0.21
425 0.41 262.96 425 0.22 -2.25 0.24 0.16
525 0.67 284.28 525 0.31 -3.17 0.34 0.32
625 1.12 279.34 625 0.60 -4.70 0.64 0.46
725 1.34 284.25 725 1.03 -6.80 1.09 0.24
825 1.40 286.03 825 1.63 -9.11 1.71 0.07
880 1.37 289.51 880 2.03 -10.37 2.12 0.16

OPERATION DETAILS

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION
18:00 20:30 2.50 P MIRU 01 MIRU WALK RIG OVER WELL. (40' WALK)
20:30 22:30 2.00 P MIRU 01 MIRU RIG UP. RIG ON DAYRATE @ 22:30 HRS 05/29/2014.
22:30 03:30 5.00 P CASSURF 28 NUBOPE N/U & FUNCTION TEST BOPS FROM BOTH STATIONS, N/U BELL NIPPLE & FLOW LINE.
03:30 06:00 2.50 P CASSURF 30 TSTWCEQ R/U YELLOW JACKETT TEST BOPE 250 PSI LOW, 5,000 PSI HIGH, 5MIN EACH W/H2O. TESTED ANNULAR PREVENTER 250 PSI LOW, 3,500 PSI HIGH.

Daily Operations Comments
RIG ON DAY RATE @ 22:30 05/29/14.

EP ENERGY

Daily Drilling Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/OH

Country: USA

State/OCSG: TEXAS

Field/Permit#: WOLF CAMP EAST

Supervisors: JOE WILKERSON / BRANDON GREEN

Engineer/Manager: ESPARZA, JESSE / EVANS, PERRY

Report Number: 003

Report Date: 05/31/2014

Spud Date:

Release Date:

DFS: 0.00

DOL: 2

AFE Days: 16

Last BOP T.: 05/30/2014

Safety & Environmental Incident: No

Depth md/tvd (ft): 916.00/ 915.90

Progress:

ROP: / = 0.00

Proposed TD (ft): 15,200.00

Next Csg Point (ft): 15,000.03

Rig: SIDEWINDER/222

Rig Phone: 713-997-1245

RKB (ft): 2,688.01

Ground Level (ft): 2,663.0

POB: 33

Total Man Hours: 352.00

AFE #:

Day Cost(\$):

Cum Cost(\$):

AFE(\$):

Drig

Comp

Fac

Total

Current Activity: P/U BHA.

24 Hr Summary: FINISH TESTING BOPE. TEST CSG. SERVICED RIG. SLIP & CUT DRILL LINE. CO SAVER SUB. 17.5 HRS DOWTIME REPLACING DRAW WORKS SPEAR. P/U BHA

24 Hr Forecast: P/U BHA # 1 TIH, DISPLACE. DRILL CMT & FE, START DRILLING SIDEBUILD F/ 916"

MUD PROPERTIES

Fluids Co.: HALLIBURTON

Fluids Eng: WESLEY VAUGHN

Time: 21:00

Location: JCTION TANK

Pit Temp ("F): 0

Depth (ft): 916.00

Density (ppg): 9.05

FV (s/qt): 56

PV (cp): 14

YP (lb/100ft³): 15

Gels (J): 12/16/19

WL (cc/30min): 11.60

HTHP ("F): 250

Cake (32nd"): 3.00

Solids (lbm/bbl): 65

ECD (ppg): 9.1

MUD MATERIALS

D M Cost(\$): \$5,772.00

C M Cost(\$): \$5,772.00

Mud Additives

OBM RENTAL

ENGINEERING

Engineer Fuel Charge

Used

2,166

1

360

BIT RECORD

Bit#

S/N

Size (in)

Mfg

IADC Type

Model #

Jets

Depth In (ft)

Depth Out (ft)

Bit Rotations

On Btm Hrs Cum

Footage Cum (ft)

ROP Cum

WOB mm/mx (kip)

RPM rot/bit

Bit HP

HSI

PSI Drop (psi)

Jet Vel (ft/s)

Imp Force

Grading

I

O

D

L

B

G

O

R

Bit #

CASING

Size(in)

MD(ft)/TVD(ft)

FIT/LOT(ppg)

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

INVENTORY

Item

Inv

DIESEL

15,941

MUD DIESEL

9,045

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

BHA # 1

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

5" DP

4.276

5.000

729.06

729.06

1

CROSSOVER

2.625

6.750

2.32

731.38

3

3) DRILL COLLARS

2.250

6.437

91.02

822.40

1

CROSSOVER

2.375

6.750

3.01

825.41

1

NMDC

2.875

6.750

28.96

854.37

1

NMDC W/ MWD

3.250

6.812

30.86

885.23

1

UBHO

3.250

6.687

3.35

888.58

1

NOV 1.5" 7/8 5.0 1.5" PDM MUD M

1.750

6.750

26.42

915.00

1

HUGHES T606X

8.750

1.00

916.00

Total Length:

916.00

STRING LOADS

On Btm Torque:

Off Btm Torque:

Str. Wt. Up:

Str. Wt. Down:

Str. Wt. Rot.:

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

Jar Hrs:

Cum String Hours:

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

Liner ID:

SPM:

GPM:

SPR:

1 SPM:

Pressure:

2 SPM:

Pressure:

T GPM (gpm):

AV (DC):

SPP (psi):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

225

0.42

279.76

225

0.33

-1.10

0.34

0.08

325

0.26

254.94

325

0.33

-1.68

0.34

0.21

425

0.41

262.96

425

0.22

-2.25

0.24

0.16

525

0.67

284.28

525

0.31

-3.17

0.34

0.32

625

1.12

279.34

625

0.60

-4.70

0.64

0.46

725

1.34

284.25

725

1.03

-6.80

1.09

0.24

825

1.40

286.03

825

1.63

-9.11

1.71

0.07

880

1.37

289.51

880

2.03

-10.37

2.12

0.16

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

08:30

2.50

P

CASSURF

30

TSTWCEQ

FINISH TESTING BOPE. 250 LOW, 5,000 PSI HIGH, 5 MIN EACH.

08:30

09:30

1.00

P

CASSURF

31

TESTCAS

TESTED CASING TO 1,500 PSI FOR 30 MIN.

09:30

11:30

2.00

P

CASSURF

17

CUTSLIP

SLIP & CUT DRILL LINE. CHANGE OUT TOP DRIVE SAVER SUB.

11:30

12:00

0.50

P

CASSURF

12

RIGSVC

SERVICED RIG & TOP DRIVE.

12:00

05:30

17.50

N

CASSURF

44

RRHOIST

REMOVED DRAWWORKS SPEAR. CHANGED OUT HIGH DRUM QUICK RELEASE. NO FITTINGS FOR REPLACEMENT SPEAR ATTEMPT TO LOCATE SAME. RELEASED OWI SERVICE COMPANY @ 00:00. FEMCO SERVICE CO. ON LOCATION @ 02:00 HRS. RETAP REPLACEMENT SPEAR & INSTALL SAME.

05:30

06:00

0.50

P

CASSURF

14

PULDSTR

P/U BHA #1.

Daily Operations Comments

17.5 HRS DOWTIME ON DRAW WORKS SPEAR.

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/OH

Report Number:

004

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOE WILKERSON / BRANDON GREEN

Engineer/Manager:

ESPARZA, JESSE / EVANS, PERRY

Report Date:

06/01/2014

Spud Date:

Release Date:

DFS: 1.00

DOL: 3

AFE Days: 16

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

2,920.01 / 2,907.96

Progress (ft):

2,004.00

ROP:

2,004.0 / 14.00 = 143.14

Proposed TD (ft):

15,200.00

Next Csg Point (ft):

15,000.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

25

Total Man Hours:

298.00

AFE #:

160694/51659

Day Cost(\$):

65,290

Cum Cost(\$):

594,704

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

Current Activity:

DRILLING SIDE BUILD @ 2,920', PTB @ 2,920' INC:2.6, AZM:199.0, AHEAD:4.4', LEFT:2.2'

24 Hr Summary:

TIH DISPLACED, DRILLED SHOE TRACK, DRILL SIDE BUILD T/ 2,920', TOTAL RIG DOWN TIME 5.5HRS.

24 Hr Forecast:

DRILL SIDEBUILD.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

97

Depth (ft):

2,224.00

Density (ppg):

9.00

FV (s/qt):

53

PV (cp):

12

YP (lb/100ft²):

13

Gels (l):

10/14/16

WL (cc/30min):

11.60

HTHP (°F):

250

Cake (32nd):

3.00

Solids (lbm/bbl):

63

ECD (ppg):

9.8

MUD MATERIALS

D M Cost(\$):

\$6,264.68

C M Cost(\$):

\$12,036.68

Mud Additives

Used

LIME

25

SHRINK WRAP

15

CALCIUM CHLORIDE PO

56

ENGINEERING

1

BARABLOK

6

FUEL SURCHARGE

300

DURATONE HT

6

GELTONE V

10

TRANSPORTATION

398

INVERMUL

1

BIT RECORD

Bit#

1

S/N

7151101

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

6X14

Depth In (ft)

916

Depth Out (ft)

Bit Rotations

60/60

On Btm Hrs Cum

14.00

Footage Cum (ft)

2,004

ROP Cum

143.1

WOB mm/mx (kip)

/

RPM rot/bit

60 / 60

Bit HP

1.79

HSI

1.99

PSI Drop (psi)

349.86

Jet Vel (ft/s)

208.44

Imp Force

569.54

Grading

I O D L B G O R

Bit #

1

CASING

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

INVENTORY

Item

Inv

DIESEL

14,688

MUD DIESEL

3,040

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 1

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

5" DP

4.276

5.000

729.06

729.06

1

CROSSOVER

2.625

6.750

2.32

731.38

3

3) DRILL COLLARS

2.250

6.437

91.02

822.40

1

CROSSOVER

2.375

6.750

3.01

825.41

1

NMDC

2.875

6.750

28.96

854.37

1

NMDC W/ MWD

3.250

6.812

30.86

885.23

1

UBHO

3.250

6.687

3.35

888.58

1

NOV 1.5" 7/8 5.0 1.5" PDM MUD M

1.750

6.750

26.42

915.00

1

HUGHES T606X

8.750

1.00

916.00

Total Length:

916.00

STRING LOADS

On Btm Torque:

12,500

Off Btm Torque:

2,000

Str. Wt. Up:

85

Str. Wt. Down:

80

Str. Wt. Rot.:

82

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

14

Jar Hrs:

Cum String Hours:

20

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

DR

DR

Liner ID:

6.00

6.00

SPM:

70.00

70.00

GPM:

302.28

302.28

SPR:

1 SPM:

40.00

60.00

Pressure:

358.00

546.00

2 SPM:

60.00

40.00

Pressure:

550.00

347.00

T GPM (gpm):

586

SPP (psi):

2,400

AV (DC):

488

AV (DP):

293

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

2,121

8.60

214.10

2,113

-91.80

-83.33

-91.08

0.26

2,215

9.10

214.80

2,206

-103.79

-91.52

-103.00

0.54

2,310

7.80

211.10

2,300

-115.55

-99.13

-114.69

1.48

2,403

5.70

207.20

2,392

-125.11

-104.51

-124.21

2.31

2,497

4.70

220.10

2,486

-132.25

-109.12

-131.30

1.63

2,591

4.60

221.90

2,580

-138.04

-114.12

-137.06

0.19

2,685

4.40

222.10

2,673

-143.56

-119.05

-142.54

0.21

2,779

4.20

212.20

2,767

-149.19

-123.30

-148.13

0.82

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

08:00

2.00

P

CASSURF

13

TRIP

MU BHA #1 & TIH TO 847'.

08:00

09:00

1.00

P

CASSURF

42

OTHER

LEVEL RIG, TIGHTEN FLOW LINE HAMMER SEALS.

09:00

10:00

1.00

P

CASSURF

32

DRLFLOAT

DISPLACE WITH OBM, WASH TO CMT @ 904'. DRILLED CMT AND SHOE 904'-916'.

10:00

11:00

1.00

N

CASSURF

45

RRCIRC

REPLACED MUD PUMP SUCTION LINE.

11:00

16:00

5.00

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 916'-1,697'. (WELL SPUDDED @ 11:00 HRS 5-31-14) (DRILL WITH ONE PUMP. #1 MUD PUMP TRACTION MOTOR BLOWER OUT #1 PUMP BACK ONLINE @ 1,697'.)

16:00

16:30

0.50

P

DRLPRD

12

RIGSVC

SERVICED RIG.

16:30

18:30

2.00

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 1,697'-2,018'.

18:30

19:30

1.00

N

DRLPRD

47

RROTHR

RIG DOWN TIME DUE TO ENGINES OVER HEATING.

19:30

00:30

5.00

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 2,018'-2,819'.

00:30

04:00

3.50

N

DRLPRD

43

RRTOP

REPLACED HYD HOSE ON TOP DRIVE.

04:00

06:00

2.00

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 2,819'-2,920'.

Daily Operations Comments

RIG DOWN TIME: 1HR FOR MUD PUMP SUCTION LINE, 1HR FOR ENGINES OVER HEATING, & 3.5HRS FOR REPLACING HYD HOSE ON TOP DRIVE. TOTAL DOWN TIME: 5.5 HRS. ONE FLOORHAND SHORT.

Printed: 6/2/2014 8:07:39AM

1

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/OH

Report Number:

005

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOE WILKERSON / BRANDON GREEN

Engineer/Manager:

ESPARZA, JESSE / EVANS, PERRY

Report Date:

06/02/2014

Spud Date:

Release Date:

DOL: 4

AFE Days: 16

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

5,816.01 / 5,803.69

Progress (ft):

2,896.01

ROP:

2,896.0 / 17.50 = 165.49

Proposed TD (ft):

15,200.00

Next Csg Point (ft):

15,000.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,863.0

POB:

25

Total Man Hours:

338.00

AFE #:

160694/51659

Day Cost(\$):

93,559

Cum Cost(\$):

688,263

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

65.00 / 65.00

93,559

688,263

9.63

916.00 / 916.00

0

0

5.50

15,000.03 / 7,000.01

0

0

Current Activity:

RIG ON DOWNTIME FOR TOP DRIVE HYD HOSE & EDS BRAKE @ 5,816', PTB INC:0.4, AZM:174.8, AHEAD:3.4', LEFT:5.5'.

24 Hr Summary:

DRILLED SIDE BUILD T/ 5,816', TOTAL RIG DOWN TIME 6.0HRS.

24 Hr Forecast:

REPAIR TOP DRIVE & EDS BRAKE, DRILL SIDEBUILD.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

115

Depth (ft):

5,367.01

Density (ppg):

9.00

FV (s/qt):

54

PV (cp):

14

YP (lb/100ft²):

14

Gels (l):

11/15/17

WL (cc/30min):

11.60

HTHP (°F):

250

Cake (32nd")::

3.00

Solids (lbm/bbl):

60

ECD (ppg):

9.3

MUD MATERIALS

D M Cost(\$):

\$6,774.07

C M Cost(\$):

\$18,810.75

Mud Additives

Used

GELTONE V

15

DRILL TREAT

5

CALCIUM CHLORIDE PO

168

EZ MUL

1

ENGINEERING

1

LIME

70

BIT RECORD

Bit#

1

S/N

7151101

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

6X14

Depth In (ft)

916

Depth Out (ft)

40/60

Bit Rotations

31.50

On Btm Hrs Cum

4,900

Footage Cum (ft)

155.6

ROP Cum

10 / 24

WOB mm/mx (kip)

/

RPM rot/bit

40 / 60

Bit HP

0.68

HSI

0.76

PSI Drop (psi)

184.02

Jet Vel (ft/s)

151.17

Imp Force

299.57

Grading

I O D L B G O R

Bit #

1

CASING

Size(in)

MD(ft)/TVD(ft)

Fit LOT(ppg)

13.38

65.00 / 65.00

9.63

916.00 / 916.00

5.50

15,000.03 / 7,000.01

INVENTORY

Item

Inv

DIESEL

13,077

MUD DIESEL

6,098

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100//

2

100//

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

(min)

Lag Time:

(min)

BHA # 1

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

5" DP

4.276

5.000

729.06

729.06

2

CROSSOVER

2.625

6.750

2.32

731.38

3

3) DRILL COLLARS

2.250

6.437

91.02

822.40

1

CROSSOVER

2.375

6.750

3.01

825.41

1

NMDC

2.875

6.750

28.96

854.37

1

NMDC W/ MWD

3.250

6.812

30.86

885.23

1

UBHO

3.250

6.687

3.35

888.58

1

NOV 1.5" 7/8 5.0 1.5" PDM MUD M

1.750

6.750

26.42

915.00

1

HUGHES T606X

8.750

1.00

916.00

Total Length:

916.00

STRING LOADS

On Btm Torque:

9,000

Off Btm Torque:

3,500

Str. Wt. Up:

131

Str. Wt. Down:

116

Str. Wt. Rot.:

123

Max Over Pull:

10

BHA PROPERTIES

BHA Hrs:

18

Jar Hrs:

Cum String Hours:

44

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

DR

DR

Liner ID:

6.00

6.00

SPM:

100.00

100.00

GPM:

431.83

431.83

SPR:

1 SPM:

40.00

40.00

Pressure:

347.00

350.00

2 SPM:

60.00

60.00

Pressure:

540.00

537.00

T GPM (gpm):

425

SPP (psi):

2,400

AV (DC):

488

AV (DP):

293

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

4,945

0.40

29.10

4,933

-148.00

-129.08

-146.88

0.13

5,040

0.70

25.20

5,028

-147.18

-128.68

-146.07

0.32

5,134

0.50

28.20

5,122

-146.29

-128.24

-145.19

0.22

5,229

0.50

225.80

5,217

-146.22

-128.34

-145.11

1.04

5,325

0.40

240.90

5,313

-146.68

-128.93

-145.57

0.16

5,419

0.30

265.40

5,407

-146.86

-129.46

-145.75

0.19

5,514

0.30

243.70

5,502

-147.00

-129.93

-145.88

0.12

5,608

0.30

233.80

5,596

-147.25

-130.35

-146.13

0.06

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:30

1.50

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 2,920'-3,482'.

07:30

08:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

08:00

08:30

0.50

N

DRLPRD

43

RRTOP

INSPECT TOP DRIVE FOR LEAKS. " OIL COMING OUT OF OVERFLOW VENT "

08:30

00:00

15.50

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 3,482'-5,731'.

00:00

02:00

2.00

N

DRLPRD

43

RRTOP

REPLACE HYD HOSE ON TOP DRIVE.

02:00

02:30

0.50

P

DRLPRD

08

DRLDIR

DRILLED BACK BUILD 5,731'-5,816'.

02:30

06:00

3.50

N

DRLPRD

43

RRTOP

BUSTED HYD LINE ON TOP DRIVE. WAITING ON HYD HOSE FROM HOUSTON & REPAIRING WATER LINE ON EDS BRAKE.

Daily Operations Comments

RIG DOWN TIME: 0.5HRS FOR OIL COMING OUT OF OVERFLOW, 2.0HRS FOR REPLACING HYD HOSE ON TOP DRIVE, 3.5HRS WAITING FOR HYD HOSE ON TOP DRIVE & WORKING ON EDS BRAKE, TOTAL DOWN TIME: 6.0HRS. ONE FLOORHAND SHORT.

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/OH				Report Number: 006									
				Country: USA				Report Date: 06/03/2014									
				State/OCSG: TEXAS				Spud Date:									
				Field/Permit#: WOLF CAMP EAST				Release Date:									
				Supervisors: JOE WILKERSON / BRANDON GREEN				DFS: 3.00 DOL: 5 AFE Days: 16									
				Engineer/Manager: ESPARZA, JESSE / EVANS, PERRY				Last BOP T.: 05/30/2014									
								Safety & Environmental Incident: No									
Depth md/tvd (ft): 7,590.02 / 7,577.59				Rig: SIDEWINDER/222				Drig				Comp		Fac		Total	
Progress (ft): 1,774.00				Rig Phone: 713-997-1245				AFE #:				160694/51659					
ROP: 1,774.0 / 20.50 = 86.54				RKB (ft): 2,688.01				Day Cost(\$):				84,264		0		84,264	
Proposed TD (ft): 15,200.00				Ground Level (ft): 2,663.0				Cum Cost(\$)				766,577		0		766,577	
Next Csg Point (ft): 15,000.03				POB: 25 Total Man Hours: 298.00				AFE(\$):				0		0		0	
Current Activity: CIRCULATE HOLE CLEAN.																	
24 Hr Summary: 1.5 HRS DOWNTIME REPLACING TOP DRIVE HYD HOSE. DRILLED SIDE BUILD 5,816'-6,680', DRILLED PILOT HOLE 6,680'-7,590'. CIRCULATE HOLE CLEAN.																	
24 Hr Forecast: POOH & LAY DOWN DIRECTIONAL TOOLS, RUN OPEN HOLE LOGS WITH SCHLUMBERGER WIRELINE.																	
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING					
Fluids Co.: HALLIBURTON				D M Cost(\$): \$9,454.93				Bit# 1				Size(in)					
Fluids Eng: WESLEY VAUGHN				C M Cost(\$): \$28,265.68				S/N 7151101				MD(ft)/TVD(ft)					
Time: 21:00 Oil Cnt (%): 25				Mud Additives Used				Size (in) 8.75				FT/LOT(ppg)					
Location: ICTION TANK H2O Cnt (%): 65				EZ MUL 1				Mfg HUGHES				5.50					
Pit Temp ("F): 118				Sand Cnt: 1				IADC Type									
Depth (ft): 7,067.01				MBT (lbm/bbl): 0.0				Model # T606X									
Density (ppg): 9.05				pH: 0.0				Jets 6X14									
FV (s/qt): 52				Pm (cc): 0.0				Depth In (ft) 916									
PV (cp): 15				Pf (cc)/Mf (cc): 0.0 / 0.0				Depth Out (ft) 7,590									
YP (lb/100ft ³): 14				Chloride (ppm): 0				Bit Rotations 35/60									
Gels (l): 12/16/19				Calcium (ppm): 0.00				On Btm Hrs Cum 52.00									
WL (cc/30min): 11.20				LCM (lbm/bbl): 0.0				Footage Cum (ft) 6,674									
HTHP ("F): 250				ES (mV): 457.0				ROP Cum 128.3									
Cake (32nd"): 3.00				LGS (%): 6.50				WOB mm/mx (kip) / 8 / 26									
Solids (lbm/bbl): 64				Ex Lime (ppb): 4.9				RPM rot/bit / 35 / 60									
ECD (ppg): 9.6				OWR: 72.0 / 28.0				Bit HP 1.97									
								HSI 2.18									
								PSI Drop (psi) 372.37									
								Jet Vel (ft/s) 215.04									
								Imp Force 606.18									
MUD LOGGING																	
Trip Gas (units): @				BG Gas (units): 415				Surf to Surf:									
Conn Gas (units) 308 @ 386								Lag Strokes:									
Form:				Pore Pressure: (%)				Lag Time: (min)									
								Grading I O D L B G O R									
								Bit #									
								Bit # 1									
BHA # 1								STRING LOADS				MUD PUMPS					
Qty	Item Description			ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 12,000				#1					
1	5" DP			4.276	5.000	729.06	731.38	Off Btm Torque: 3,500				#2					
1	CROSSOVER			2.625	6.750	2.32	731.38	Str. Wt. Up: 155				DR					
3	3) DRILL COLLARS			2.250	6.437	91.02	822.40	Str. Wt. Down: 145				DR					
1	CROSSOVER			2.375	6.750	3.01	825.41	Str. Wt. Rot.: 150									
1	NMDC			2.875	6.750	28.96	854.37	Max Over Pull: 10									
1	NMDC W/ MWD			3.250	6.812	30.86	885.23										
1	UBHO			3.250	6.687	3.35	888.58										
1	NOV 1.5" 7/8 5.0 1.5" PDM MUD M			1.750	6.750	26.42	915.00										
1	HUGHES T606X				8.750	1.00	916.00										
Total Length:							916.00										
BHA PROPERTIES																	
BHA Hrs: 21																	
Jar Hrs:																	
Cum String Hours: 67																	
Weight B Jars (kip):																	
T GPM (gpm): 569												SPP (psi): 3,500					
AV (DC): 488												AV (DP): 293					
SURVEYS																	
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)			
6,835		0.30		275.90		6,823		-150.07		-132.99		-148.92		0.21			
6,930		0.20		267.40		6,918		-150.05		-133.40		-148.90		0.11			
7,024		0.70		278.20		7,012		-149.98		-134.13		-148.83		0.54			
7,119		0.70		286.70		7,107		-149.74		-135.26		-148.58		0.11			
7,213		0.70		306.10		7,201		-149.25		-136.28		-148.07		0.25			
7,308		1.20		279.90		7,296		-148.75		-137.73		-147.56		0.68			
7,402		1.40		278.30		7,390		-148.43		-139.83		-147.23		0.22			
7,496		1.10		280.20		7,484		-148.13		-141.86		-146.90		0.32			
OPERATION DETAILS																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION										
06:00	07:30	1.50	N	DRLPRD	43	RRTOP	REPLACED HYDRAULIC HOSE ON TOP DRIVE.										
07:30	14:00	6.50	P	DRLPRD	08	DRLDIR	DRILLED BACK BUILD 5,816'-6,680'. (PTB @ 6,680'. 0.2 INC, 318.7 AZM, 1' ABOVE, 7.5' LEFT)										
14:00	04:00	14.00	P	DRLPRD	08	DRLDIR	DRILLED PILOT HOLE 6,680'-7,590'.										
04:00	06:00	2.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN & CONDITION MUD FOR LOGGING. FLOW CHECK. WELL STATIC. PUMPED SLUG.										
Daily Operations Comments																	
TOTAL DOWN TIME FOR WELL: 30.5 HRS. DOWNTIME FOR TODAY 1.5 HRS. ONE FLOORHAND SHORT.																	

EP ENERGY Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/OH		Report Number: 007			
		Country: USA		Report Date: 06/04/2014			
		State/OCSG: TEXAS		Spud Date:			
		Field/Permit#: WOLF CAMP EAST		Release Date:			
		Supervisors: JOE WILKERSON / BRANDON GREEN		DFS: 4.00 DOL: 6 AFE Days: 16			
		Engineer/Manager: ESPARZA, JESSE / EVANS, PERRY		Last BOP T.: 05/30/2014			
				Safety & Environmental Incident: No			
Depth md/tvd (ft): 7,590.02 / 7,577.59		Rig: SIDEWINDER/222		Drig			
Progress: / 0.00 = 0.00		Rig Phone: 713-997-1245		Comp			
Proposed TD (ft): 15,200.00		RKB (ft): 2,688.01		Fac			
Next Csg Point (ft): 15,000.03		Ground Level (ft): 2,863.0		Total			
		POB: 29 Total Man Hours: 394.00		AFE #:			
				Day Cost(\$):			
				Cum Cost(\$):			
				AFE(\$):			
Current Activity: LOGGING WITH SPECTRAL GR-LITHO SCANNER-RESONANCE @ 4,650'-WLM.							
24 Hr Summary: POOH & LD DIRECTIONAL BHA, HOLD PJSM & R/U SCHLUMBERGER WIRELINE, RIH WITH TRIPLE COMBO & LOG F/ 7,591' T/ 914'-WLM, RIH WITH SPECTRAL GR-LITHO SCANNER-RESONANCE & LOG F/ 7,591' T/ 4,650'-WLM.							
24 Hr Forecast: FINISH RUNNING OPEN HOLE LOGS & CUT ROTARY SIDEWALL CORES, TIH OPEN ENDED T/ 7,590'MD, R/U HALLIBURTON & SET CEMENT PLUG.							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD			
Fluids Co.: HALLIBURTON		D M Cost(\$): \$3,390.63		Bit# 1			
Fluids Eng: WESLEY VAUGHN		C M Cost(\$): \$31,656.31		S/N 7151101			
Time: 21:00 Oil Cnt (%): 25		Mud Additives		Size (in) 8.75			
Location: ICTION TANK H2O Cnt (%): 65		DURATONE HT		Mfg HUGHES			
Pit Temp (°F): 0 Sand Cnt:		LIME		IADC Type			
Depth (ft): 7,590.02 MBT (lbm/bbl): 0.0		INVERMUL		Model #			
Density (ppg): 9.10 pH: 0.0		ENGINEERING		Jets			
FV (s/qt): 54 Pm (cc): 0.0		GELTONE V		6X14			
PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0		DRILL TREAT		Depth In (ft) 916			
YP (lb/100ft²): 14 Chloride (ppm): 0		CALCIUM CHLORIDE PO		Depth Out (ft) 7,590			
Gels (l): 12/16/19 Calcium (ppm): 0.00				On Btm Hrs Cum			
WL (cc/30min): 11.20 LCM (lbm/bbl): 0.0				Footage Cum (ft) 6,674			
HTHP (°F): 250 ES (mV): 457.0				ROP Cum			
Cake (32nd): 3.00 LGS (%): 6.10				WOB mm/rev (kip) / 0 / 0			
Solids (lbm/bbl): 66 Ex Lime (ppb): 4.9				RPM rot/bit / 0 / 0			
ECD (ppg): 9.1 OWR: 72.0 / 28.0				Bit HP 0.00			
				HSI 0.00			
				PSI Drop (psi) 0.00			
				Jet Vel (ft/s) 0.00			
				Imp Force 0.00			
MUD LOGGING							
Trip Gas (units): @		BG Gas (units):		Surf to Surf:			
Conn Gas (units): @		Pore Pressure: (%)		Lag Strokes:			
Form:				Lag Time: (min)			
BHA # 1							
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)		
1	5" DP	4.276	5.000	729.06	729.06		
1	CROSSOVER	2.625	6.750	2.32	731.38		
3	3) DRILL COLLARS	2.250	6.437	91.02	822.40		
1	CROSSOVER	2.375	6.750	3.01	825.41		
1	NMDC	2.875	6.750	28.96	854.37		
1	NMDC W/ MWD	3.250	6.812	30.86	885.23		
1	UBHO	3.250	6.687	3.35	888.58		
1	NOV 1.5" 7/8 5.0 1.5" PDM MUD M	1.750	6.750	26.42	915.00		
1	HUGHES T606X		8.750	1.00	916.00		
Total Length:					916.00		
STRING LOADS							
On Btm Torque:							
Off Btm Torque:							
Str. Wt. Up:							
Str. Wt. Down:							
Str. Wt. Rot:							
Max Over Pull: 15							
BHA PROPERTIES							
BHA Hrs:							
Jar Hrs:							
Cum String Hours: 67							
Weight B Jars (kip):							
MUD PUMPS							
	#1	#2	#3				
Pump Type:							
Liner ID:							
SPM:							
GPM:							
SPR:							
1 SPM:							
Pressure:							
2 SPM:							
Pressure:							
T GPM (gpm):		SPP (psi): 0					
AV (DC): 488		AV (DP): 293					
SURVEYS							
MD (ft)		Inclination (°)		Azimuth (°)		TVD (ft)	
6,835		0.30		275.90		6,823	
6,930		0.20		267.40		6,918	
7,024		0.70		278.20		7,012	
7,119		0.70		286.70		7,107	
7,213		0.70		306.10		7,201	
7,308		1.20		279.90		7,296	
7,402		1.40		278.30		7,390	
7,496		1.10		280.20		7,484	
						-150.07	
						-150.05	
						-149.98	
						-149.74	
						-149.25	
						-148.75	
						-148.43	
						-148.13	
						-132.99	
						-133.40	
						-134.13	
						-135.26	
						-136.28	
						-137.73	
						-139.83	
						-141.86	
						-148.92	
						-148.90	
						-148.83	
						-148.58	
						-148.07	
						-147.56	
						-147.23	
						-146.90	
						0.21	
						0.11	
						0.54	
						0.11	
						0.25	
						0.68	
						0.22	
						0.32	
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	11:00	5.00	P	DRLPRD	13	TRIP	POOH & LD DIRECTIONAL BHA. CLEAR RIG FLOOR.
11:00	12:00	1.00	P	EVLPRD	22	LOGFORM	PJSM. RU SCHLUMBERGER WIRELINE.
12:00	19:30	7.50	P	EVLPRD	22	LOGFORM	P/U & RIH WITH TRIPLE COMBO & LOG 7,591'-914'-WLM.
19:30	06:00	10.50	P	EVLPRD	22	LOGFORM	RIH WITH SPECTRAL GR - LITHO SCANNER -MAGNETIC RESONANCE & LOG.7591-4,650'-WLM.
Daily Operations Comments							
TOTAL DOWN TIME FOR WELL: 30.5 HRS. ONE FLOORHAND SHORT.							

Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/OH		Report Number: 008 Report Date: 06/05/2014 Spud Date: Release Date: DFS: 5.00 DOL: 7 AFE Days: 16 Last BOP T.: 05/30/2014 Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / BRANDON GREEN Engineer/Manager: ESPARZA, JESSE / EVANS, PERRY			

Depth md/tvd (ft): 7,590.02 / 7,577.59 Progress: / 0.00 = 0.00 Proposed TD (ft): 15,200.00 Next Csg Point (ft): 15,000.03	Rig: SIDEWINDER/222 Rig Phone: 713-997-1245 RKB (ft): 2,688.01 Ground Level (ft): 2,963.0 POB: 29 Total Man Hours: 394.00	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> <tr> <td>AFE #: 160694/51659</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$): 251,720</td> <td></td> <td>0</td> <td>0</td> <td>251,720</td> </tr> <tr> <td>Cum Cost(\$) 1,070,157</td> <td></td> <td>0</td> <td>0</td> <td>1,070,157</td> </tr> <tr> <td>AFE(\$): 0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>		Drig	Comp	Fac	Total	AFE #: 160694/51659					Day Cost(\$): 251,720		0	0	251,720	Cum Cost(\$) 1,070,157		0	0	1,070,157	AFE(\$): 0		0	0	0
	Drig	Comp	Fac	Total																							
AFE #: 160694/51659																											
Day Cost(\$): 251,720		0	0	251,720																							
Cum Cost(\$) 1,070,157		0	0	1,070,157																							
AFE(\$): 0		0	0	0																							

Current Activity: CIRCULATE HOLE CLEAN @ 7,590' WHILE RU HES.
24 Hr Summary: POOH & LD LITHO SCANNER/SPECTRA GR. RIH & LOG W/SONIC SCANNER. POOH. RIH W/ROTARY SIDEWALL CORE TOOL, RETRIEVE CORES.
 POOH. RD WIRE LINE. TIH W/OPEN ENDED WITH DRILL PIPE T/ 7,590', C&C MUD
24 Hr Forecast: RU HES. SET CEMENT PLUG. POOH 200' ABOVE CMT. CIRCULATE OUT CMT. POOH, PU CONVENTIONAL BHA & TIH T/ 5,536', CIRCULATE WHILE WOC.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																		
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN Time: 21:00 Oil Cnt (%): 26 Location: JCTION TANK H2O Cnt (%): 64 Pit Temp (°F): 0 Sand Cnt: Depth (ft): 7,590.02 MBT (lbm/bbl): 0.0 Density (ppg): 9.10 pH: 0.0 FV (s/qt): 64 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 14 Chloride (ppm): 0 Gels (l): 12/16/19 Calcium (ppm): 0.00 WL (cc/30min): 11.20 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 493.0 Cake (32nd): 3.00 LGS (%): 6.11 Solids (lbm/bbl): 64 Ex Lime (ppb): 5.1 ECD (ppg): 9.1 OWR: 71.0 / 29.0		D M Cost(\$): \$900.00 C M Cost(\$): \$32,556.31 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Mud Additives</th> <th>Used</th> </tr> <tr> <td>ENGINEERING</td> <td>1</td> </tr> </table>		Mud Additives	Used	ENGINEERING	1	Bit# S/N Size (in) Mfg IADC Type Model # Jets Depth In (ft) Depth Out (ft) Bit Rotations On Btm Hrs Cum Footage Cum (ft) ROP Cum WOB min/mx (kip) / / RPM rot/bit / / Bit HP HSI PSI Drop (psi) Jet Vel (ft/s) Imp Force		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>FIT/LOT(ppg)</th> </tr> <tr> <td>13.38</td> <td>65.00 /</td> <td>65.00</td> </tr> <tr> <td>9.63</td> <td>916.00 /</td> <td>916.00</td> </tr> <tr> <td>5.50</td> <td>15,000.03 /</td> <td>7,000.01</td> </tr> </table>			Size(in)	MD(ft)/TVD(ft)	FIT/LOT(ppg)	13.38	65.00 /	65.00	9.63	916.00 /	916.00	5.50	15,000.03 /	7,000.01
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Skr	Deck 1 Screens	Deck 2 Screens																						
1	100///																							
2	100///																							


MUD LOGGING			
Trip Gas (units): @ Conn Gas (units): @ Form:	BG Gas (units): Pore Pressure: (%)	Surf to Surf: Lag Strokes: Lag Time: (min)	

MUD PUMPS			
	#1	#2	#3
Pump Type: Liner ID: SPM: GPM: SPR: 1 SPM: Pressure: 2 SPM: Pressure:			
T GPM (gpm): 488 SPP (psi):		AV (DC): 293 AV (DP): 293	

SURVEYS							
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
6,835	0.30	275.90	6,823	-150.07	-132.99	-148.92	0.21
6,930	0.20	267.40	6,918	-150.05	-133.40	-148.90	0.11
7,024	0.70	278.20	7,012	-149.98	-134.13	-148.83	0.54
7,119	0.70	286.70	7,107	-149.74	-135.26	-148.58	0.11
7,213	0.70	306.10	7,201	-149.25	-136.28	-148.07	0.25
7,308	1.20	279.90	7,296	-148.75	-137.73	-147.56	0.68
7,402	1.40	278.30	7,390	-148.43	-139.83	-147.23	0.22
7,496	1.10	280.20	7,484	-148.13	-141.86	-146.90	0.32

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	07:30	1.50	P	EVLPRD	22	LOGFORM	POOH & LD SPECTRAL GR - LITHO SCANNER -MAGNETIC RESONANCE.
07:30	15:30	8.00	P	EVLPRD	22	LOGFORM	MU & RIH W/ SONIC SCANNER LOG 7,591'-4,000' WLM. POOH & LD TOOLS.
15:30	01:00	9.50	P	EVLPRD	22	LOGFORM	MU ROTARY SIDE WALL CORE. RIH & TAKE CORES AT VARIOUS DEPTHS. 50 POSSIBLE CORES. 50 CORES RETRIEVED. LD ROTARY CORE TOOL. RD WIRE LINE.
01:00	01:30	0.50	P	EVLPRD	12	RIGSVC	RIG SERVICE.
01:30	04:30	3.00	P	ABDSUSP	13	TRIP	TIH WITH OPEN ENDED DRILL PIPE TO 7,590'.
04:30	06:00	1.50	P	ABDSUSP	15	CIRC	CIRCULATE HOLE CLEAN & RU HES.

Daily Operations Comments
 TOTAL DOWN TIME FOR WELL: 30.5 HRS. ONE FLOORHAND SHORT.

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / BRANDON GREEN Engineer/Manager: ESPARZA, JESSE / MANGUM, DANNY				Report Number: 009 Report Date: 06/06/2014 Spud Date: 05/31/2014 Release Date: DFS: 6.00 DOL: 8 AFE Days: 16 Last BOP T.: 05/30/2014 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 7,590.02 / 7,577.59 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,200.00 Next Csg Point (ft): 15,000.03				Rig: SIDEWINDER/222 Rig Phone: 713-997-1245 RKB (ft): 2,688.01 Ground Level (ft): 2,663.0 POB: 29 Total Man Hours: 394.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>160694/51659</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>114,995</td> <td>0</td> <td>0</td> <td>114,995</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>1,185,152</td> <td>0</td> <td>0</td> <td>1,185,152</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160694/51659				Day Cost(\$):	114,995	0	0	114,995	Cum Cost(\$)	1,185,152	0	0	1,185,152	AFE(\$):	0	0	0	0
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AFE(\$):	0	0	0	0																																
Current Activity: TIH W/SLICK BHA TO DRESS OF CMT PLUG. 24 Hr Summary: CIRCULATE HOLE CLEAN, HOLD PJSM & R/U HES, SET CEMENT PLUG, POOH 240' ABOVE TOC W/DP IN HOLE, CIRCULATE OUT CMT, POOH, P/U CONVENTIONAL BHA & TIH T/ 916', WOC. TIH. 24 Hr Forecast: TIH T/ 5,560', CBU, WASH/REAM TO TOC. DRESS UP CMT PLUG, PERFORM WASH OF TEST ON CMT PLUG, POOH FOR CURVE ASSEMBLY.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN Time: 21:00 Oil Cnt (%): 26 Location: ICTION TANK H2O Cnt (%): 63 Pit Temp ("F): 0 Sand Cnt: Depth (ft): 7,590.02 MBT (lbm/bbl): 0.0 Density (ppg): 9.10 pH: 0.0 FV (s/qt): 64 Pm (cc): 0.0 PV (cp): 14 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 14 Chloride (ppm): 0 Gels (l): 12/16/19 Calcium (ppm): 0.00 WL (cc/30min): 11.20 LCM (lbm/bbl): 0.0 HTHP ("F): 250 ES (mV): 488.0 Cake (32nd"): 3.00 LGS (%): 7.40 Solids (lbm/bbl): 72 Ex Lime (ppb): 4.9 ECD (ppg): 9.2 OWR: 71.0 / 29.0		D M Cost(\$): \$900.00 C M Cost(\$): \$33,456.31 Mud Additives Used ENGINEERING 1		Bit# 2 S/N RA7670 Size (in) 8.75 Mfg SMITH IADC Type Model # XR Jets 3X18 Depth In (ft) Depth Out (ft) Bit Rotations On Btm Hrs Cum Footage Cum (ft) ROP Cum WOB mm/mx (kip) / / RPM rot/bit / / Bit HP 0.00 HSI 0.00 PSI Drop (psi) 0.00 Jet Vel (ft/s) 0.00 Imp Force 0.00		Size(in) MD(ft)/TVD(ft) FT/LOT(ppg) 13.38 65.00 / 65.00 9.63 916.00 / 916.00 5.50 15,000.03 / 7,000.01																														
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Form:				Lag Time: (min)																																
				Grading I O D L B G O R																																
				Bit # 2																																
BHA # 2				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)																															
1	SMITH XR MILL TOOTH		8.750	1.00	1.00																															
1	UBHO	3.250	6.687	2.91	3.91																															
6	3) DRILL COLLARS	2.250	6.437	180.52	184.43																															
1	CROSSOVER	2.625	6.750	1.89	186.32																															
	5" DP	4.276	5.000	7,403.69	7,590.02																															
					Total Length:	7,590.02																														
On Btm Torque:																																				
Off Btm Torque:																																				
Str. Wt. Up:																																				
Str. Wt. Down:																																				
Str. Wt. Rot.:																																				
Max Over Pull:																																				
BHA PROPERTIES																																				
BHA Hrs:																																				
Jar Hrs:																																				
Cum String Hours:																																				
Weight B Jars (kip):																																				
Pump Type:																																				
Liner ID:																																				
SPM:																																				
1 SPM:																																				
Pressure:																																				
2 SPM:																																				
Pressure:																																				
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AV (DC): 488						AV (DP): 293																														
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MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
6,835		0.30		275.90		6,823																														
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						-148.58																														
						-148.07																														
						-147.56																														
						-147.23																														
						-146.90																														
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						0.11																														
						0.54																														
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						0.25																														
						0.68																														
						0.22																														
						0.32																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	07:30	1.50	P	ABDSUSP	15	CIRC	CIRCULATE HOLE CLEAN & RU HES. HOLD PJSM.																													
07:30	09:00	1.50	P	ABDSUSP	38	SETCEM	INSTALL PUMP IN SUB. TEST LINES TO 3K. PUMPED 30 BBLS 9.0 PPG TUNED SPACER, 119 BBLS (625 SKS 1.07 YEILD) PREMIUM CLASS H CMT, DISPLACED WITH 10 BBLS 9 PPG TUNED SPACER, STARTED LIFTING CMT W/81 BBLS 9 PPG OBM GONE. SHUT DOWN. REMOVE HES HP LINE.																													
09:00	10:00	1.00	P	ABDSUSP	13	TRIP	POOH TO 5,594'.																													
10:00	11:30	1.50	P	ABDSUSP	15	CIRC	CBU X 2 @ 650 GPM WHILE ROTATING AND RECIPROCATING PIPE. 30 BBLS SPACER BACK & SLIGHT CMT CONTAMINATION. CONTINUE TO CIRCULATE WHILE RD HES.																													
11:30	14:00	2.50	P	ABDSUSP	13	TRIP	POOH.																													
14:00	16:30	2.50	P	ABDSUSP	13	TRIP	MU SLICK BHA & MILL TOOTH BIT. TIH TO 9 5/8" CASING SHOE @ 916'.																													
16:30	17:00	0.50	P	ABDSUSP	12	RIGSVC	SERVICED RIG & TDU																													
17:00	17:30	0.50	P	ABDSUSP	15	CIRC	CBU @ CSG SHOE.																													
17:30	05:00	11.50	P	ABDSUSP	42	OTHER	WOC. STRAP & RELOCATE CURVE BHA. P/U CURVE BHA & SCRIBE MOTOR. RACK BACK CURVE BHA IN DERRICK. INSPECT FLUID ENDS ON BOTH PUMPS. CHANGE OUT PACKING ON #1 MIXING PUMP. CLEAN RIG.																													
05:00	06:00	1.00	P	ABDSUSP	13	TRIP	TIH W/SLICK BHA.																													
Daily Operations Comments																																				
TOTAL DOWN TIME FOR WELL: 30.5 HRS. ONE FLOORHAND SHORT.																																				

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/OH

Report Number:

010

Country:

USA

Report Date:

06/07/2014

State/OCSG:

TEXAS

Spud Date:

05/31/2014

Field/Permit#:

WOLFCAMP EAST

Release Date:

DFS: 7.00

Supervisors:

JOE WILKERSON / BRANDON GREEN

DOL: 9

AFE Days: 16

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

7,590.02 / 7,577.59

Progress (ft):

0.00

ROP:

0.0 / 4.50 = 0.00

Proposed TD (ft):

15,200.00

Next Csg Point (ft):

15,000.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

28

Total Man Hours:

328.00

AFE #:

160694/51659

Day Cost(\$):

73,505

Cum Cost(\$):

1,258,657

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

73,505

0

0

73,505

1,258,657

0

0

1,258,657

0

0

0

0

Current Activity:

DRILLING CMT PLUG @ 6,300'.

24 Hr Summary:

TIH TO 5,466'. CIRCULATE WHILE WOC, WASHED & REAMED 5,466' TO FIRM CMT @ 6,133'. 14.5 HRS DT RIG REPAIR DRAWWORKS SPEAR STUFFING BOX. DRILLED CMT 6,133'-6,300'.

24 Hr Forecast:

DRILL CMT WITHIN 50' OF KOP. CBU, POOH, PU CURVE BHA. TIH. TIME DRILL CURVE.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp ("F):

0

Depth (ft):

6,142.01

Density (ppg):

9.00

FV (s/qt):

58

PV (cp):

14

YP (lb/100ft²):

14

Gels (l):

12/16/19

WL (cc/30min):

11.60

HTHP ("F):

250

Cake (32nd):

3.00

Solids (lbm/bbl):

59

ECD (ppg):

9.3

MUD MATERIALS

D M Cost(\$):

\$6,064.51

C M Cost(\$):

\$39,520.82

Mud Additives

Used

BARABLOK

6

GELTONE V

5

ENGINEERING

1

DURATONE HT

12

INVERMUL

1

OIL ABSORBENT CLAY

4

CALCIUM CHLORIDE PO

56

DRILL TREAT

5

BARITE 41

44

BIT RECORD

Bit#

2

S/N

RA7670

Size (in)

8.75

Mfg

SMITH

IADC Type

XR

Model #

3X18

Jets

6,000

Depth In (ft)

6,630

Depth Out (ft)

20/20

Bit Rotations

4.50

On Btm Hrs Cum

0.0

Footage Cum (ft)

8 / 28

ROP Cum

20 / 20

WOB mm/mx (kip)

1.50

RPM rot/bit

2.01

Bit HP

400.46

HSI

223.01

PSI Drop (psi)

538.83

Jet Vel (ft/s)

Imp Force

Grading

I O D L B G O R

Bit #

2

Bit # 2

1 1 NO A E I NOBHA

CASING

Size(in)

MD(ft)/TVD(ft)

FT/LOT(ppg)

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

INVENTORY

Item

Inv

DIESEL

14,063

MUD DIESEL

8,696

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 2

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH XR MILL TOOTH

8.750

1.00

1.00

1

UBHO

3.250

6.687

2.91

3.91

6

3) DRILL COLLARS

2.250

6.437

180.52

184.43

1

CROSSOVER

2.625

6.750

1.89

186.32

5"

DP

4.276

5.000

6,443.69

6,630.01

Total Length:

6,630.01

STRING LOADS

On Btm Torque:

5,000

Off Btm Torque:

5,000

Str. Wt. Up:

140

Str. Wt. Down:

130

Str. Wt. Rot.:

130

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

5

Jar Hrs:

Cum String Hours:

5

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

60.00

60.00

GPM:

259.10

259.10

SPR:

1 SPM:

0.00

0.00

Pressure:

0.00

0.00

2 SPM:

0.00

0.00

Pressure:

0.00

0.00

T GPM (gpm):

520

SPP (psi):

1,330

AV (DC):

488

AV (DP):

293

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,835

0.30

275.90

6,823

-149.38

-132.99

-148.92

0.21

6,930

0.20

267.40

6,918

-149.37

-133.40

-148.90

0.11

7,024

0.70

278.20

7,012

-149.29

-134.13

-148.83

0.54

7,119

0.70

286.70

7,107

-149.05

-135.26

-148.58

0.11

7,213

0.70

306.10

7,201

-148.55

-136.28

-148.07

0.25

7,308

1.20

279.90

7,296

-148.04

-137.73

-147.56

0.68

7,402

1.40

278.30

7,390

-147.71

-139.83

-147.23

0.22

7,496

1.10

280.20

7,484

-147.39

-141.86

-146.90

0.32

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:30

1.50

P

ABDSUSP

13

TRIP

TIH TO 5,466'.

07:30

09:00

1.50

P

ABDSUSP

15

CIRC

CIRCULATE WHILE WOC.

09:00

10:00

1.00

P

ABDSUSP

72

DRLCMT

WASH & REAM 5,466'- 5,917'.

10:00

10:30

0.50

N

ABDSUSP

44

RRHOIST

EDS BRAKE WATER PRESSURE BELOW OPERATING LIMITS. BRAKE LOCKED DOWN. FOUND TERMINAL LOOSE.

10:30

11:00

0.50

P

ABDSUSP

72

DRLCMT

WASH & REAM 5,917'-6,028'.

11:00

11:30

0.50

P

ABDSUSP

12

RIGSVC

SERVICED RIG.

11:30

12:00

0.50

N

ABDSUSP

44

RRHOIST

EDS BRAKE WATER PRESSURE BELOW OPERATING LIMITS. PRIME PUMPS.

12:00

12:30

0.50

P

ABDSUSP

72

DRLCMT

WASHED & REAMED 6,028' TO CMT @ 6,133'. DRILLED CMT 6,133'-6,142'.

12:30

02:00

13.50

N

ABDSUSP

44

RRHOIST

DRAW WORKS SPEAR STUFFING BOX LEAKING ON LOW DRUM SIDE. MECHANIC ON LOCATION @ 18:30 HRS. PARTS ON LOCATION @ 1:00 AM. INSTALLED NEW BEARINGS & SEALS IN STUFFING BOX.

02:00

06:00

4.00

P

ABDSUSP

72

DRLCMT

DRILLED HARD CMT 6,142'-6,300'. WOB 28K, GPM 520, ROTARY RPM 20, ROP 40-60 FPH.

Daily Operations Comments

DOWN TIME LAST 24 HRS: 14.5 TOTAL DOWN TIME FOR WELL: 45 HRS.

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/OH

Report Number:

011

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOE WILKERSON / BRANDON GREEN

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Report Date:

06/08/2014

Spud Date:

05/31/2014

Release Date:

DFS: 8.00

DOL: 10

AFE Days: 16

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

7,590.02 / 7,577.59

Progress:

/ = 0.00

Proposed TD (ft):

15,200.00

Next Csg Point (ft):

15,000.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

28

Total Man Hours:

328.00

AFE #:

160694/51659

Day Cost(\$):

99,538

Cum Cost(\$):

1,358,195

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

0

0

0

0

47,660

1,306,316

Current Activity:

P/U CURVE BHA.

24 Hr Summary:

DRILLED CMT 6,300' TO KOP @ 6,630'. CBU. POOH LD BHA.

24 Hr Forecast:

DRILL CURVE.

MUD PROPERTIES

MUD MATERIALS

BIT RECORD

CASING

INVENTORY

SOLIDS CONTROL

MUD LOGGING

BHA # 2

STRING LOADS

MUD PUMPS

BHA PROPERTIES

SURVEYS

OPERATION DETAILS

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

0

Depth (ft):

6,142.01

Density (ppg):

9.00

FV (s/qt):

58

PV (cp):

14

YP (lb/100ft²):

14

Gels (l):

12/16/19

WL (cc/30min):

11.60

HTHP (°F):

250

Cake (32nd):

3.00

Solids (lbm/bbl):

59

ECD (ppg):

9.3

D M Cost(\$):

\$0.00

C M Cost(\$):

\$39,520.82

Mud Additives

Used

Bit#

S/N

Size (in)

Mfg

IADC Type

Model #

Jets

Depth In (ft)

Depth Out (ft)

Bit Rotations

On Btm Hrs Cum

Footage Cum (ft)

ROP Cum

WOB mm/mx (kip)

RPM rot/bit

Bit HP

HSI

PSI Drop (psi)

Jet Vel (ft/s)

Imp Force

Grading

I

O

D

L

B

G

O

R

Bit #

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

13.38

65.00 /

65.00

9.63

916.00 /

916.00

5.50

15,000.03 /

7,000.01

Item

Inv

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH XR MILL TOOTH

8.750

1.00

1.00

1

UBHO

3.250

6.687

2.91

3.91

6

3) DRILL COLLARS

2.250

6.437

180.52

184.43

1

CROSSOVER

2.625

6.750

1.89

186.32

5" DP

4.276

5.000

6,443.69

6,630.01

Total Length:

6,630.01

On Btm Torque:

Off Btm Torque:

Str. Wt. Up:

Str. Wt. Down:

Str. Wt. Rot.:

Max Over Pull:

BHA Hrs:

Jar Hrs:

Cum String Hours:

Weight B Jars (kip):

Pump Type:

Liner ID:

SPM:

GPM:

SPR:

1 SPM:

Pressure:

2 SPM:

Pressure:

T GPM (gpm):

SPP (psi):

AV (DC):

488

AV (DP):

293

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,835

0.30

275.90

6,823

-149.38

-132.99

-148.92

0.21

6,930

0.20

267.40

6,918

-149.37

-133.40

-148.90

0.11

7,024

0.70

278.20

7,012

-149.29

-134.13

-148.83

0.54

7,119

0.70

286.70

7,107

-149.05

-135.26

-148.58

0.11

7,213

0.70

306.10

7,201

-148.55

-136.28

-148.07

0.25

7,308

1.20

279.90

7,296

-148.04

-137.73

-147.56

0.68

7,402

1.40

278.30

7,390

-147.71

-139.83

-147.23

0.22

7,496

1.10

280.20

7,484

-147.39

-141.86

-146.90

0.32

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

12:00

6.00

P

ABDSUSP

72

DRLCMT

DRILLED HARD CMT 6,300'-6,630'. WOB 20K, GPM 520, ROTARY RPM 55, ROP 40-60 FPH. TEST

12:00

12:30

0.50

P

ABDSUSP

15

CIRC

CIRCULATE HOLE CLEAN. FLOW CHECKED & PUMPED SLUG.

12:30

16:00

3.50

P

ABDSUSP

13

TRIP

POOH & LD BIT #2.

Daily Operations Comments

DOWN TIME LAST 24 HRS: 14.5 TOTAL DOWN TIME FOR WELL: 45 HRS.

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/01

Report Number:

013

Country:

USA

Report Date:

06/09/2014

State/OCSG:

TEXAS

Spud Date:

05/31/2014

Field/Permit#:

WOLFCAMP EAST

Release Date:

DFS: 9.00

Supervisors:

JOE WILKERSON / BRANDON GREEN

DOL: 11

AFE Days: 16

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

6,668.01 / 6,655.71

Progress (ft):

31.00

ROP:

31.0 / 17.00 = 1.82

Proposed TD (ft):

Next Csg Point (ft):

15,223.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

28

Total Man Hours:

328.00

AFE #:

160694/51659

Day Cost(\$):

80,191

Cum Cost(\$):

1,438,386

AFE(\$):

0

Drig

Comp

Fac

Total

Current Activity:

CHANGING OUT BHA.

24 Hr Summary:

TIME DRILLED CURVE 6,637'-6,668', POOH & CHANGE OUT BHA.

24 Hr Forecast:

PU LONG PACK 4/5 7.0 2.38 PDM. MU BHA & MWD. TIH & TIME DRILL CURVE.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

108

Depth (ft):

6,661.01

Density (ppg):

9.05

FV (s/qt):

63

PV (cp):

16

YP (lb/100ft²):

16

Gels (l):

13/18/21

WL (cc/30min):

10.80

HTHP (°F):

250

Cake (32nd")::

3.00

Solids (lbm/bbl):

63

ECD (ppg):

9.4

MUD MATERIALS

D M Cost(\$):

\$5,488.45

C M Cost(\$):

\$52,142.71

Mud Additives

Used

EZ MUL

1

LIME

29

ENGINEERING

1

GELTONE V

5

INVERMUL

1

BARABLOK

6

CALCIUM CHLORIDE PO

56

DRILL TREAT

2

DURATONE HT

6

BIT RECORD

Bit#

3

S/N

RA8953

Size (in)

8.75

Mfg

SMITH

IADC Type

Model #

FHI 21

Jets

3X18

Depth In (ft)

6,630

Depth Out (ft)

6,668

Bit Rotations

/

On Btm Hrs Cum

25.50

Footage Cum (ft)

38

ROP Cum

1.5

WOB mm/mx (kip)

1 / 3

RPM rot/bit

/

Bit HP

0.70

HSI

0.94

PSI Drop (psi)

240.53

Jet Vel (ft/s)

172.83

Imp Force

323.63

CASING

Size(in)

5.50

MD(ft)/TVD(ft)

15,223.03 / 7,115.01

Fit LOT(ppg)

INVENTORY

Item

Inv

DIESEL

15,410

MUD DIESEL

9,278

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

@

Form:

BG Gas (units):

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

Grading

I O D L B G O R

Bit #

3

BHA # 3

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH FHI 21

8.750

1.00

1.00

1

NOV 2.12" 4/5 7.0 MUD MOTOR W.

1.750

6.750

26.47

27.47

1

UBHO

2.812

6.687

3.35

30.82

1

MWD

3.250

6.750

30.86

61.68

1

NM FLEX DC

2.812

6.500

29.47

91.15

5"

DP

4.276

5.000

6,576.86

6,668.01

Total Length:

6,668.01

STRING LOADS

On Btm Torque:

Off Btm Torque:

2,000

Str. Wt. Up:

142

Str. Wt. Down:

128

Str. Wt. Rot.:

136

Max Over Pull:

10

BHA PROPERTIES

BHA Hrs:

17

Jar Hrs:

Cum String Hours:

27

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

Type:

Liner ID:

6.00

SPM:

95.00

GPM:

397.68

SPR:

1 SPM:

0.00

Pressure:

0.00

2 SPM:

0.00

Pressure:

0.00

T GPM (gpm):

400

SPP (psi):

1,075

AV (DC):

488

AV (DP):

293

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,552

0.10

251.80

6,540

-149.67

-132.29

-149.21

0.00

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

23:00

17.00

P

DRLPRD

09

DRLCRV

TIME DRILLED CURVE 6,637'-6,668'. LAST MUD LOG SAMPLE 90% CMT. 10% SHALE. ALL OTHER SAMPLES 75% CMT 25% SHALE.

23:00

00:00

1.00

P

DRLPRD

15

CIRC

CIRCULATE HOLE CLEAN WHILE BUILDING SLUG & FILLING TRIP TANK.

00:00

03:30

3.50

P

DRLPRD

13

TRIP

POOH TO SHOE.

03:30

04:00

0.50

P

DRLPRD

12

RIGSVC

SERVICED RIG & TDU.

04:00

06:00

2.00

P

DRLPRD


13

TRIP

POOH & LD MOTOR.

Daily Operations Comments

DOWN TIME LAST 24 HRS: 14.5 TOTAL DOWN TIME FOR WELL: 45 HRS.

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/01 Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOE WILKERSON / BRANDON GREEN Engineer/Manager: ESPARZA, JESSE / MANGUM, DANNY				Report Number: 014 Report Date: 06/10/2014 Spud Date: 05/31/2014 Release Date: DFS: 10.00 DOL: 12 AFE Days: 16 Last BOP T.: 05/30/2014 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 6,703.01 / 6,690.71 Progress (ft): 35.00 ROP (ft/hr): 35.0 / 18.50 = 1.89 Proposed TD (ft): Next Csg Point (ft): 15,223.03				Rig: SIDEWINDER/222 Rig Phone: 713-997-1245 RKB (ft): 2,688.01 Ground Level (ft): 2,663.0 POB: 30 Total Man Hours: 318.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>160694/51659</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>102,110</td> <td>0</td> <td>0</td> <td>102,110</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>1,540,497</td> <td>0</td> <td>0</td> <td>1,540,497</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160694/51659				Day Cost(\$):	102,110	0	0	102,110	Cum Cost(\$)	1,540,497	0	0	1,540,497	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
AFE #:	160694/51659																																			
Day Cost(\$):	102,110	0	0	102,110																																
Cum Cost(\$)	1,540,497	0	0	1,540,497																																
AFE(\$):	0	0	0	0																																
Current Activity: TIME DRILLING CURVE @ 6,703' (1MIN PER INCH) 24 Hr Summary: P/U BHA #4 & TIH, TIME DRILLED CURVE 6,668'-6,703'. 24 Hr Forecast: DRILL CURVE.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: WESLEY VAUGHN Time: 21:00 Oil Cnt (%): 27 Location: JCTION TANK H2O Cnt (%): 64 Pit Temp (°F): 104 Sand Cnt: Depth (ft): 6,677.01 MBT (lbm/bbl): 0.0 Density (ppg): 9.05 pH: 0.0 FV (s/qt): 60 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 11/15/17 Calcium (ppm): 0.00 WL (cc/30min): 10.40 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 463.0 Cake (32nd"): 3.00 LGS (%): 4.40 Solids (lbm/bbl): 57 Ex Lime (ppb): 5,184.8 ECD (ppg): 9.3 OWR: 70.0 / 30.0		D M Cost(\$): \$8,205.33 C M Cost(\$): \$60,348.03 Mud Additives Used CALCIUM CHLORIDE PO 84 INVERMUL 1 DRILL TREAT 1 ENGINEERING 1 FUEL SURCHARGE 300 BARITE 41 20 EZ MUL 1 BARABLOK 5 SHRINK WRAP 14 GELTONE V 7 DURATONE HT 11 TRANSPORTATION 420 LIME 12		Bit# 4 S/N RA8954 Size (in) 8.75 Mfg SMITH IADC Type FHI 21 Model # Jets 3X18 Depth In (ft) 6,668 Depth Out (ft) Bit Rotations 0/0 On Btm Hrs Cum 18.50 Footage Cum (ft) 35 ROP Cum 1.9 WOB mm/mx (kip) 4 / 8 RPM rot/bit 0 / 0 Bit HP 0.38 HSI 0.51 PSI Drop (psi) 159.88 Jet Vel (ft/s) 140.52 Imp Force 215.12		Size(in) 5.50 MD(ft)/TVD(ft) 15,223.03 / 7,115.01 FIT LOT(ppg) INVENTORY Item Inv DIESEL 14,222 MUD DIESEL 8,158 SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 100// 2 100//																														
MUD LOGGING																																				
Trip Gas (units): 51 @ 51 Conn Gas (units) @ Form:		BG Gas (units): 19 Pore Pressure: (%)		Surf to Surf: Lag Strokes: Lag Time: (min)																																
BHA # 4				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 2,000																														
1	SMITH FHI 21		8.750	1.00	1.00	Off Btm Torque: 0																														
1	NOV 2.38" 4/5 7.0 PDM. BTB=6.47.	1.750	6.750	28.47	29.47	Str. Wt. Up: 140																														
1	UBHO	2.812	6.687	3.35	32.82	Str. Wt. Down: 126																														
1	MWD	3.250	6.750	30.86	63.68	Str. Wt. Rot.: 135																														
1	NM FLEX DC	2.812	6.500	29.47	93.15	Max Over Pull: 0																														
1	5" DP	4.276	5.000	6,609.86	6,703.01																															
Total Length: 6,703.01																																				
BHA PROPERTIES																																				
BHA Hrs: 19																																				
Jar Hrs:																																				
Cum String Hours: 20																																				
Weight B Jars (kip):																																				
SPR: 1 SPM: 0.00 Pressure: 0.00 2 SPM: 0.00 Pressure: 0.00 T GPM (gpm): 325 SPP (psi): 1,080 AV (DC): 233 AV (DP): 155																																				
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
6,552		0.10		251.80		6,540																														
						V Section (ft)																														
						-149.67																														
						+E/-W (ft)																														
						-132.29																														
						+N/-S (ft)																														
						-149.21																														
						Dog Leg (°/100ft)																														
						0.00																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	10:30	4.50	P	DRLPRD	13	TRIP	PU 2.38" LONG PACK 4/5 7.0 ADJ PDM. BIT #4, MWD & TIH.																													
10:30	11:30	1.00	P	DRLPRD	15	CIRC	WORK TROUGH 6,656'-6,668'. @ 0.1°AZM.																													
11:30	19:00	7.50	P	DRLPRD	09	DRLCRV	TIME DRILLED CURVE 6,668'-6,675' (5MIN PER INCH) 80% CMT 20% SHALE.																													
19:00	03:30	8.50	P	DRLPRD	09	DRLCRV	TIME DRILLED CURVE 6,675'-6,695' (2MIN PER INCH) 6,680'-65% CMT 35% SHALE, 6,686'-60% CMT 40% SHALE, 6,689'-50% CMT 50% SHALE, 6,690' 40% CMT 60% SHALE, 6,695' 25% CMT 75% SHALE.																													
03:30	06:00	2.50	P	DRLPRD	09	DRLCRV	TIME DRILLED CURVE 6,695'-6,703' (1MIN PER INCH) 6,699' 10% CMT 90% SHALE/L.S, 6,700' 5% CMT 95% SHALE.																													
Daily Operations Comments TOTAL DOWN TIME FOR WELL: 45 HRS.																																				

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/01

Report Number:

015

Country:

USA

State/OCSG

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOE WILKERSON / BRANDON GREEN

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Report Date:

06/11/2014

Spud Date:

05/31/2014

Release Date:

DFS: 11.00

DOL: 13

AFE Days: 16

Last BOP T.:

05/30/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

6,946.01 / 6,920.82

Progress (ft):

243.00

ROP:

243.0 / 11.00 = 22.09

Proposed TD (ft):

Next Csg Point (ft):

15,223.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

28

Total Man Hours:

304.00

AFE #:

160694/51659

Day Cost(\$):

76,521

Cum Cost(\$):

1,608,817

AFE(\$):

0

Drig

Comp

Fac

Total

0

0

0

76,521

0

0

0

1,608,817

0

0

0

0

Current Activity:

DRILLING CURVE @ 6,946', PTB= 33.2" INC, 3.5° AZM, DLN 11.3°, BRN, 10.4° ABOVE 8.0', RIGHT 2.5'.

24 Hr Summary:

TIME DRILLED CURVE 6,703'-6,717', TROUBLE SHOOT MUD MOTOR DIFFERENTIAL PSI SPIKES. POOH. LD BHA. P/U 2.12° CURVE MOTOR. TIH TO 1,959'. MWD TEST FAILED. POOH. CO MWD. TIH. DRILLED CURVE 6,717'-6,946'.

24 Hr Forecast:

LAND CURVE. CBU. POOH. RU & TEST BOPE, SLIP & CUT DRILL LINE, MU LATERAL BHA. TIH.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

WESLEY VAUGHN

Time:

21:00

Location:

JCTION TANK

Pit Temp ("F):

98

Depth (ft):

6,717.01

Density (ppg):

9.05

FV (s/qt):

66

PV (cp):

15

YP (lb/100ft²):

15

Gels (l):

11/15/16

WL (cc/30min):

10.00

HTHP ("F):

250

Cake (32nd):

3.00

Solids (lbm/bbl):

57

ECD (ppg):

9.1

MUD MATERIALS

D M Cost(\$):

\$5,915.95

C M Cost(\$):

\$66,263.98

Mud Additives

Used

CALCIUM CHLORIDE PO

56

LIME

9

DRILL TREAT

2

DURATONE HT

2

BARABLOK

9

BARITE 41

40

BAROID RIG WASH

1

ENGINEERING

1

INVERMUL

2

BIT RECORD

Bit#

4

S/N

RA8954

Size (in)

8.75

Mfg

SMITH

IADC Type

SMITH

Model #

FHI 21

Jets

3X18

Depth In (ft)

6,668

Depth Out (ft)

6,717

Bit Rotations

/

On Btm Hrs Cum

3.00

Footage Cum (ft)

14

ROP Cum

2.3

WOB mm/mx (kip)

4 / 8

RPM rot/bit

/

Bit HP

3.91

HSI

5.24

PSI Drop (psi)

759.45

Jet Vel (ft/s)

306.26

Imp Force

1,021.85

5

RD0085

8.75

SMITH

FHI 21

3X18

6,717

243/243

11.00

229

20.8

18 / 35

243 / 243

1.12

1.50

329.86

201.84

443.83

Grading

I O D L B G O R

Bit # 4

0 0 NO A 3 I NOBHA

Bit # 5

CASING

Size(in)

5.50

MD(ft)/TVD(ft)

15,223.03 / 7,115.01

FT/LOT(ppg)

INVENTORY

Item

Inv

DIESEL

13,246

MUD DIESEL

7,343

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

38 @ 38

Conn Gas (units)

@

Form:

BG Gas (units):

50

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 5

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH FHI 21

8.750

1.00

1.00

1

NOV 2.12° 4/5 7.0 FBH PDM. BTB=

1.750

6.750

26.18

27.18

1

FLOAT SUB

2.875

6.750

2.88

30.06

1

UBHO

2.812

6.687

3.35

33.41

1

MWD

3.250

6.750

30.86

64.27

1

NM FLEX DC

2.812

6.500

29.47

93.74

5"

DP

4.276

5.000

6,852.27

6,946.01

Total Length:

6,946.01

STRING LOADS

On Btm Torque:

2,000

Off Btm Torque:

Str. Wt. Up:

140

Str. Wt. Down:

126

Str. Wt. Rot.:

135

Max Over Pull:

MUD PUMPS

#1

#2

#3

Pump Type:

DR

Liner ID:

6.00

SPM:

110.00

GPM:

460.47

SPR:

1 SPM:

60.00

Pressure:

515.00

2 SPM:

40.00

Pressure:

320.00

60.00

305.00

40.00

505.00

T GPM (gpm):

325

SPP (psi):

1,080

AV (DC):

353

AV (DP):

235

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,619

0.20

297.50

6,607

-149.64

-132.45

-149.17

0.22

6,676

1.50

358.40

6,664

-148.84

-132.56

-148.38

2.48

6,708

4.40

8.40

6,696

-147.21

-132.39

-146.75

9.17

6,739

8.50

10.10

6,726

-143.78

-131.82

-143.32

13.24

6,771

13.40

12.60

6,758

-137.82

-130.59

-137.37

15.38

6,802

17.40

12.40

6,788

-129.78

-128.81

-129.33

12.90

6,834

20.90

10.80

6,818

-119.49

-126.71

-119.05

11.06

6,865

23.70

7.80

6,847

-107.87

-124.83

-107.44

9.75

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

08:30

2.50

P

DRLPRD

09

DRLCRV

TIME DRILLED CURVE 6,703'-6,714' (1MIN PER INCH) 5% CMT 95% SHALE @ 6,710'.

08:30

09:00

0.50

P

DRLPRD

09

DRLCRV

TIME DRILLED CURVE 6,714'-6,717' (30 SEC PER INCH) MOTOR STALLING OUT. 18K WOB, 200-400 PSI DIFF, ROP-4FPH. 99% SHALE, 1% CMT @ 6,714'.

09:00

09:30

0.50

N

DRLPRD

57

DIFRFAIL

P/U OFF BOTTOM, TROUBLE SHOOT MOTOR, CONFIRM OFF BOTTOM CIRC PSI OK, NO EXCESSIVE DRAG, NO PACKING OFF. BUILT & PUMPED SLUG.

09:30

13:30

4.00

N

DRLPRD

57

DIFRFAIL

POOH & LD 2.38° PDM & BIT #4.

13:30

15:00

1.50

N

DRLPRD

57

DIFRFAIL

MU 2.12° FBH SLICK PDM. & BIT #5. TIH. TO SHOE.

15:00

15:30

0.50

P

DRLPRD

12

RIGSVC

SERVICED RIG.

15:30

16:00

0.50

P

DRLPRD

13

TRIP

TIH TO 1,959' & TEST MWD.

16:00

17:00

1.00

N

DRLPRD

57

DIFRFAIL

TROUBLE SHOOT MWD. CHANGED OUT SURFACE EQUIPMENT. BAD QUALIFIERS. AZIMUTH 40° OUT.

17:00

19:00

2.00

N

DRLPRD

57

DIFRFAIL

POOH. CHANGED OUT MWD. TIH TO 1,530'. TEST MWD.

19:00

22:00

3.00

P

DRLPRD

13

TRIP

TIH TO 6,600'. ORIENTATE MOTOR TO HIGH SIDE. TIH TO 6,717'.

22:00

06:00

8.00

P

DRLPRD


09

DRLCRV

DRILLED CURVE 6,717'-6,946'.

Daily Operations Comments

SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS, RYAN DIRECTIONAL DOWN TIME FOR TODAY: 3.0 HOURS.

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/01 Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / STACEY REDDEN Engineer/Manager: ESPARZA, JESSE / MANGUM, DANNY				Report Number: 016 Report Date: 06/12/2014 Spud Date: 05/31/2014 Release Date: DFS: 12.00 DOL: 14 AFE Days: 16 Last BOP T.: 06/12/2014 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 7,294.01 / 7,117.13 Progress (ft): 348.00 ROP: 348.0 / 8.50 = 40.94 Proposed TD (ft): Next Csg Point (ft): 15,223.03				Rig: SIDEWINDER/222 Rig Phone: 713-997-1245 RKB (ft): 2,688.01 Ground Level (ft): 2,663.0 POB: 24 Total Man Hours: 280.00				<table border="1"> <thead> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>AFE #:</td> <td>160694/51659</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>80,562</td> <td>0</td> <td>0</td> <td>80,562</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>1,709,360</td> <td>0</td> <td>0</td> <td>1,709,360</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Drig	Comp	Fac	Total	AFE #:	160694/51659				Day Cost(\$):	80,562	0	0	80,562	Cum Cost(\$)	1,709,360	0	0	1,709,360	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
AFE #:	160694/51659																																			
Day Cost(\$):	80,562	0	0	80,562																																
Cum Cost(\$)	1,709,360	0	0	1,709,360																																
AFE(\$):	0	0	0	0																																
Current Activity: TRIPPING IN HOLE W/ LATERAL ASSEMBLY, PTB=INC. 80.0 AZM.=356.8, 4' ABOVE, 4.5 RIGHT 24 Hr Summary: BUILD CURVE FROM 6,946' TO 7294'. CIRCULATE HOLE CLEAN. POOH. LD BHA. TEST BOP. 24 Hr Forecast: FINISH TIH W/ LATERAL ASSEMBLY, DRILL LATERAL																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: HALLIBURTON Fluids Eng: JONATHAN MEEKS Time: 21:00 Oil Cnt (%): 27 Location: JCTION TANK H2O Cnt (%): 64 Pit Temp (°F): 0 Sand Cnt: Depth (ft): 7,294.01 MBT (lbm/bbl): 0.0 Density (ppg): 9.00 pH: 0.0 FV (s/qt): 58 Pm (cc): 0.0 PV (cp): 15 Pf (cc)/Mf (cc): 0.0 / 0.0 YP (lb/100ft²): 15 Chloride (ppm): 0 Gels (l): 11/15/16 Calcium (ppm): 0.00 WL (cc/30min): 10.00 LCM (lbm/bbl): 0.0 HTHP (°F): 250 ES (mV): 491.0 Cake (32nd"): 2.00 LGS (%): 4.00 Solids (lbm/bbl): 53 Ex Lime (ppb): 4.5 ECD (ppg): 9.0 OWR: 70.0 / 30.0		D M Cost(\$): \$6,131.32 C M Cost(\$): \$72,395.30 Mud Additives INVERMUL 3 LIME 8 BARITE 41 56 CALCIUM CHLORIDE PO 84 OIL ABSORBENT CLAY 8 ENGINEERING 1 DURATONE HT 2 BARABLOK 2		Bit# 5 S/N RD0085 Size (in) 8.75 Mfg SMITH IADC Type Model # FHI 21 Jets 3X18 7X18 Depth In (ft) 6,717 Depth Out (ft) 7,294 Bit Rotations /243 On Btm Hrs Cum 19.50 Footage Cum (ft) 577 ROP Cum 29.6 WOB mm/mx (kip) 18 / 35 RPM rot/bit / 243 Bit HP 0.00 HSI 0.00 PSI Drop (psi) 315.57 Jet Vel (ft/s) 197.96 Imp Force 0.00		Size(in) 5.50 MD(ft)/TVD(ft) 15,223.03 / 7,115.01 FIT/LOT(ppg) INVENTORY Item DIESEL 15,813 MUD DIESEL 9,278 SOLIDS CONTROL Skr Deck 1 Screens Deck 2 Screens 1 100// 2 100//																														
MUD LOGGING																																				
Trip Gas (units): @ BG Gas (units): 66 Conn Gas (units) 88 @ 118 Form: Pore Pressure: (%) Lag Time: (min)				Surf to Surf: Lag Strokes: Lag Time: (min)																																
BHA # 6				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 2,000																														
1	HUGHES T606X		8.750	1.00	1.00	Off Btm Torque:																														
1	6 3/4" 1.50" 7/8 5.0 .31 RPG FBH P	1.750	6.750	29.98	30.98	Str. Wt. Up: 145																														
1	FLOAT SUB	3.250	6.687	2.88	33.86	Str. Wt. Down: 126																														
1	NMDC	3.250	6.812	3.35	37.21	Str. Wt. Rot.: 135																														
1	NMDC	2.875	6.750	28.96	66.17	Max Over Pull:																														
105	5" DP	4.276	5.000	2,357.34	2,423.51																															
1	DRILLING AGITATOR	3.250	6.750	12.99	2,436.50																															
1	SHOCK SUB	3.250	6.750	10.83	2,447.33																															
1	5" DP	4.276	5.000	4,846.68	7,294.01																															
Total Length: 7,294.01						BHA PROPERTIES																														
						BHA Hrs: 9 Jar Hrs: Cum String Hours: 21 Weight B Jars (kip):																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
7,023		41.20		3.00		6,981																														
7,054		45.80		3.70		7,003																														
7,086		50.40		2.80		7,024																														
7,117		54.60		2.00		7,043																														
7,149		58.70		0.60		7,061																														
7,180		62.50		359.70		7,076																														
7,212		66.70		358.60		7,090																														
7,243		71.50		356.80		7,101																														
						V Section (ft)																														
						-25.56																														
						-4.26																														
						19.52																														
						44.09																														
						70.81																														
						97.81																														
						126.71																														
						155.63																														
						+E/-W (ft)																														
						-120.03																														
						-118.78																														
						-117.43																														
						-116.41																														
						-115.81																														
						-115.74																														
						-116.18																														
						-117.35																														
						+N/-S (ft)																														
						-25.14																														
						-3.84																														
						19.93																														
						44.50																														
						71.21																														
						98.22																														
						127.11																														
						156.04																														
						Dog Leg (°/100ft)																														
						12.50																														
						14.92																														
						14.53																														
						13.70																														
						13.32																														
						12.52																														
						13.49																														
						16.41																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	14:30	8.50	P	DRLPRD	09	DRLCRV	BUILD CURVE FROM 6,946' TO 7,294'.																													
14:30	15:30	1.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN.																													
15:30	20:00	4.50	P	DRLPRD	13	TRIP	POOH. LD CURVE ASSEMBLY.																													
20:00	00:30	4.50	P	DRLPRD	19	TEST	TEST WELL CONTROL EQUIPMENT-250/LOW, 5000/HIGH- ANNULAR 250/LOW, 3500/HIGH																													
00:30	04:30	4.00	P	DRLPRD	17	CUTSLIP	CUT AND SLIP DRLG. LINE																													
04:30	06:00	1.50	P	DRLPRD	13	TRIP	PICK UP LATERAL ASSEMBLY/ TIH																													
Daily Operations Comments																																				
SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS																																				

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/01

Report Number:

017

Country:

USA

State/OCSG

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

CRAIG CART / STACEY REDDEN

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Report Date:

06/13/2014

Spud Date:

05/31/2014

Release Date:

DFS: 13.00

DOL: 15

AFE Days: 16

Last BOP T.:

06/12/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

10,119.02 / 7,110.55

Progress (ft):

2,825.01

ROP:

2,825.0 / 18.50 = 152.70

Proposed TD (ft):

15,233.00

Next Csg Point (ft):

15,223.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,653.0

POB:

24

Total Man Hours:

280.00

AFE #:

160694/51659

Day Cost(\$):

87,182

Cum Cost(\$):

1,796,541

AFE(\$):

0

Drig

Comp

Fac

Total

Drig

160694/51659

Comp

0

Fac

0

Total

87,182

Day Cost(\$):

87,182

Cum Cost(\$):

1,796,541

AFE(\$):

0

Current Activity:

DRILLING LATERAL @ 10,119', PTB=INC.-89.7, AZM.-357.20, 9.6 BELOW, 5.4 LEFT, TVD=7,116 TOTAL LATERAL=2,770'

24 Hr Summary:

FINISH TIH W/ LATERAL ASSEMBLY, BUILD CURVE FROM 7,294' TO 7,349' , DRILL LATERAL FROM 7,349' TO 10,119'

24 Hr Forecast:

DRILL LATERAL

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

JONATHAN MEEKS

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

118

Depth (ft):

8,514.02

Density (ppg):

8.95

FV (s/qt):

59

PV (cp):

15

YP (lb/100ft²):

14

Gels (l):

10/14/15

WL (cc/30min):

10.80

HTHP (°F):

250

Cake (32nd")::

2.00

Solids (lbm/bbl):

51

ECD (ppg):

9.1

D M Cost(\$):

\$5,936.57

C M Cost(\$):

\$78,331.87

Mud Additives

Used

BARABLOK

5

SHRINK WRAP

10

CALCIUM CHLORIDE PO

56

FUEL SURCHARGE

300

GELTONE V

25

LIME

5

ENGINEERING

1

TRANSPORTATION

273

DURATONE HT

5

Bit#

6

S/N

20866

Size (in)

8.75

Mfg

HUGHES

IADC Type

T606X

Model #

7X18

Jets

7,294

Depth In (ft)

180/240

Depth Out (ft)

18.50

Bit Rotations

2,825

On Btm Hrs Cum

152.7

Footage Cum (ft)

12 / 40

ROP Cum

180 / 240

WOB mm/mx (kip)

/

RPM rot/bit

0.17

Bit HP

0.10

HSI

30.55

PSI Drop (psi)

61.77

Jet Vel (ft/s)

95.91

Imp Force

Grading

I O D L B G O R

Bit #

6

Size(in)

5.50

MD(ft)/TVD(ft)

15,223.03 / 7,115.01

Fit/LOT(ppg)

INVENTORY

Item

Inv

DIESEL

14,378

MUD DIESEL

8,270

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

287 @ 287

Conn Gas (units):

52 @ 1,580

Form:

BG Gas (units):

1,034

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 6

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X

8.750

1.00

1.00

1

6 3/4" 1.50" 7/8 5.0 .31 RPG FBH P

1.750

6.750

29.98

30.98

1

FLOAT SUB

3.250

6.687

2.88

33.86

1

NMDC

3.250

6.812

3.35

37.21

1

NMDC

2.875

6.750

28.96

66.17

105

5" DP

4.276

5.000

2,357.34

2,423.51

1

DRILLING AGITATOR

3.250

6.750

12.99

2,436.50

1

SHOCK SUB

3.250

6.750

10.83

2,447.33

1

5" DP

4.276

5.000

7,671.69

10,119.02

Total Length:

10,119.02

STRING LOADS

On Btm Torque:

14

Off Btm Torque:

4

Str. Wt. Up:

161

Str. Wt. Down:

102

Str. Wt. Rot.:

138

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

19

Jar Hrs:

Cum String Hours:

19

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

70.00

70.00

GPM:

293.02

293.02

SPR:

1 SPM:

40.00

40.00

Pressure:

580.00

560.00

2 SPM:

0.00

0.00

Pressure:

0.00

0.00

T GPM (gpm):

586

SPP (psi):

AV (DC):

353

AV (DP):

235

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

9,217

89.50

359.00

7,122

2,126.35

-106.58

2,126.73

0.98

9,311

89.30

359.00

7,123

2,220.32

-108.22

2,220.71

0.21

9,405

91.30

357.70

7,122

2,314.26

-110.92

2,314.66

2.54

9,500

91.40

357.10

7,120

2,409.12

-115.23

2,409.54

0.64

9,595

90.40

359.50

7,118

2,504.05

-118.05

2,504.48

2.74

9,688

89.50

359.60

7,118

2,597.04

-118.78

2,597.47

0.97

9,783

89.80

357.90

7,119

2,692.01

-120.85

2,692.45

1.82

9,877

91.70

358.60

7,118

2,785.94

-123.72

2,786.39

2.15

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

11:00

5.00

P

DRLPRD

13

TRIP

PU LATERAL ASSEMBLY. TIH.

11:00

11:30

0.50

P

DRLPRD

09

DRLCRV

BUILD CURVE FROM 7,294' TO 7,349'.

11:30

17:30

6.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 7,349' TO 8,134'

17:30

18:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE

18:00

06:00

12.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 8,134' TO 10,119'

Daily Operations Comments

SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/01

Report Number:

018

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

CRAIG CART / STACEY REDDEN

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Report Date:

06/14/2014

Spud Date:

05/31/2014

Release Date:

DFS: 14.00

DOL: 16

AFE Days: 16

Last BOP T.:

06/12/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

13,417.03 / 7,125.22

Progress (ft):

3,298.01

ROP:

3,298.0 / 23.50 = 140.34

Proposed TD (ft):

15,233.00

Next Csg Point (ft):

15,223.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

24

Total Man Hours:

288.00

AFE #:

160694/51659

Day Cost(\$):

112,038

Cum Cost(\$):

1,908,580

AFE(\$):

0

Drig

Comp

Fac

Total

0

0

0

112,038

0

0

0

1,908,580

0

0

0

0

Current Activity:

DRILLING LATERAL @ 13,417' PTB= INC. 89.2, AZM. 358.0, 2.18 BELOW, 11.19 RIGHT, TVD= 7,125', TOTAL LATERAL=6,068'

24 Hr Summary:

DRILL LATERAL FROM 10,119' TO 13,417', RIG SERVICE

24 Hr Forecast:

DRILL LATERAL, CIRCULATE , TOH

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

JONATHAN MEEKS

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

130

Depth (ft):

12,151.02

Density (ppg):

9.00

FV (s/qt):

60

PV (cp):

17

YP (lb/100ft²):

16

Gels (l):

13/17/19

WL (cc/30min):

10.40

HTHP (°F):

250

Cake (32nd"):

2.00

Solids (lbm/bbl):

57

ECD (ppg):

9.7

D M Cost(\$):

\$7,697.43

C M Cost(\$):

\$86,029.30

Mud Additives

Used

INVERMUL

3

LIME

39

DURATONE HT

12

CALCIUM CHLORIDE PO

112

BARABLOK

11

ENGINEERING

1

Bit#

6

S/N

20866

Size (in)

8.75

Mfg

HUGHES

IADC Type

T606X

Model #

Jets

7X18

Depth In (ft)

7,294

Depth Out (ft)

Bit Rotations

170/230

On Btm Hrs Cum

42.00

Footage Cum (ft)

6,123

ROP Cum

145.8

WOB mm/mx (kip)

20 / 50

RPM rot/bit

170 / 230

Bit HP

0.17

HSI

0.10

PSI Drop (psi)

30.72

Jet Vel (ft/s)

61.77

Imp Force

96.45

Grading

I O D L B G O R

Bit #

6

Size(in)

MD(ft)/TVD(ft)

FIT/LOT(ppg)

5.50

15,223.03 /

7,115.01

INVENTORY

Item

Inv

DIESEL

11,864

MUD DIESEL

5,587

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

287 @ 287

Conn Gas (units):

05 @ 1,373

Form:

BG Gas (units):

1,083

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 6

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X

8.750

1.00

1.00

1

6 3/4" 1.50" 7/8 5.0 .31 RPG FBH P

1.750

6.750

29.98

30.98

1

FLOAT SUB

3.250

6.687

2.88

33.86

1

NMDC

3.250

6.812

3.35

37.21

1

NMDC

2.875

6.750

28.96

66.17

105

5" DP

4.276

5.000

2,357.34

2,423.51

1

DRILLING AGITATOR

3.250

6.750

12.99

2,436.50

1

SHOCK SUB

3.250

6.750

10.83

2,447.33

1

5" DP

4.276

5.000

12,772.70

15,220.03

Total Length:

15,220.03

STRING LOADS

On Btm Torque:

20

Off Btm Torque:

10

Str. Wt. Up:

195

Str. Wt. Down:

82

Str. Wt. Rot.:

136

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

24

Jar Hrs:

Cum String Hours:

42

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

65.00

65.00

GPM:

272.09

272.09

SPR:

1 SPM:

40.00

40.00

Pressure:

720.00

700.00

2 SPM:

0.00

0.00

Pressure:

0.00

0.00

T GPM (gpm):

586

SPP (psi):

3,725

AV (DC):

353

AV (DP):

235

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

12,607

88.30

357.70

7,118

5,514.30

-120.71

5,514.75

0.53

12,701

88.70

1.40

7,121

5,608.24

-121.44

5,608.70

3.96

12,795

90.00

2.40

7,122

5,702.19

-118.33

5,702.64

1.74

12,890

89.90

2.80

7,122

5,797.11

-114.02

5,797.54

0.43

12,985

89.50

3.70

7,122

5,891.97

-108.63

5,892.39

1.04

13,080

88.30

0.80

7,124

5,986.88

-104.90

5,987.28

3.30

13,173

90.20

359.70

7,125

6,079.87

-104.50

6,080.27

2.36

13,268

90.60

359.70

7,125

6,174.86

-105.00

6,175.27

0.42

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

11:00

5.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 10,119' TO 10,779'.

11:00

11:30

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

11:30

06:00

18.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 10,779' TO 13,417'

Daily Operations Comments

SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/01		Report Number: 019	
				Country: USA		Report Date: 06/15/2014	
				State/OCSG: TEXAS		Spud Date: 05/31/2014	
				Field/Permit#: WOLFCAMP EAST		Release Date:	
				Supervisors: CRAIG CART / STACEY REDDEN		DFS: 15.00 DOL: 17 AFE Days: 16	
				Engineer/Manager: ESPARZA, JESSE / MANGUM, DANNY		Last BOP T.: 06/12/2014	
				Safety & Environmental Incident: No			
Depth md/tvd (ft): 15,220.03 / 7,121.77				Rig: SIDEWINDER/222		Drig	
Progress (ft): 1,803.00				Rig Phone: 713-997-1245		Comp	
ROP: 1,803.0 / 11.50 = 156.78				AFE #: 160694/51659		Fac	
Proposed TD (ft): 15,233.00				RKB (ft): 2,688.01		Total	
Next Csg Point (ft): 15,223.03				Ground Level (ft): 2,653.0		80,708	
				POB: 24 Total Man Hours: 288.00		1,989,288	
						0	
Current Activity: RIG UP LAY DOWN MACHINE,LAY DOWN DP & BHA , PTB=INC. 91.10, AZM. 1.50, 3.3 ABOVE, 6.3 RIGHT, TVD-7,121'- TOTAL LATERAL=7,871'							
24 Hr Summary: DRILL LATERAL FROM 13,417' TO 15,220', CIRCULATE, TOH							
24 Hr Forecast: LAY DOWN DP & BHA, RIG UP AND RUN 5 1/2 PRODUCTION CSG. AND CEMENT							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING	
Fluids Co.: HALLIBURTON		D M Cost(\$): \$5,819.15		Bit# 6		Size(in)	
Fluids Eng: JONATHAN MEEKS		C M Cost(\$): \$91,848.45		S/N 20866		MD(ft)/TVD(ft)	
Time: 21:00 Oil Cnt (%): 72		Mud Additives		Size (in) 8.75		FIT LOT(ppg)	
Location: JCTION TANK H2O Cnt (%): 28		LIME 48		Mfg HUGHES		5.50 15,223.03 / 7,115.01	
Pit Temp (°F): 130 Sand Cnt:		ENGINEERING 1		IADC Type			
Depth (ft): 15,220.03 MBT (lbm/bbl): 0.0		DURATONE HT 7		Model #			
Density (ppg): 9.30 pH: 0.0		BARABLOK 7		Jets			
FV (s/qt): 59 Pm (cc): 0.0		INVERMUL 1		Depth In (ft) 7X18			
PV (cp): 17 Pf (cc)/Mf (cc): 0.0 / 0.0		OIL ABSORBENT CLAY 1		Depth Out (ft) 7.294			
YP (lb/100ft²): 16 Chloride (ppm): 0		CALCIUM CHLORIDE PO 140		Bit Rotations			
Gels (l): 14/18/20 Calcium (ppm): 0.00				On Btm Hrs Cum			
WL (cc/30min): 10.40 LCM (lbm/bbl): 0.0				Footage Cum (ft)			
HTHP (°F): 250 ES (mV): 498.0				ROP Cum			
Cake (32nd"): 2.00 LGS (%): 7.90				WOB mm/mx (kip)			
Solids (lbm/bbl): 80 Ex Lime (ppb): 4.3				RPM rot/bit			
ECD (ppg): 10.1 OWR: 72.1 / 27.9				Bit HP			
				HSI			
				PSI Drop (psi)			
				Jet Vel (ft/s)			
				Imp Force			
				Grading			
				Bit #			
				Bit # 6			
MUD LOGGING							
Trip Gas (units): 287 @ 287		BG Gas (units): 1,083		Surf to Surf:			
Conn Gas (units) 05 @ 1,373		Pore Pressure: (%)		Lag Strokes:			
Form:		Lag Time: (min)		I O D L B G O R			
BHA # 6				STRING LOADS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 20	
1	HUGHES T606X		8.750	1.00	1.00	Off Btm Torque: 10	
1	6 3/4" 1.50" 7/8 5.0 .31 RPG FBH P	1.750	6.750	29.98	30.98	Str. Wt. Up: 200	
1	FLOAT SUB	3.250	6.687	2.88	33.86	Str. Wt. Down: 75	
1	NMDC	3.250	6.812	3.35	37.21	Str. Wt. Rot.: 140	
1	NMDC	2.875	6.750	28.96	66.17	Max Over Pull:	
105	5" DP	4.276	5.000	2,357.34	2,423.51		
1	DRILLING AGITATOR	3.250	6.750	12.99	2,436.50		
1	SHOCK SUB	3.250	6.750	10.83	2,447.33		
1	5" DP	4.276	5.000	12,772.70	15,220.03		
Total Length: 15,220.03							
				BHA PROPERTIES			
				BHA Hrs: 12			
				Jar Hrs:			
				Cum String Hours: 54			
				Weight B Jars (kip):			
				MUD PUMPS			
				#1			
				#2			
				#3			
				Pump Type: DR DR			
				Liner ID: 6.00 6.00			
				SPM: 70.00 70.00			
				GPM: 293.02 293.02			
				SPR:			
				1 SPM: 40.00 0.00			
				Pressure: 780.00 0.00			
				2 SPM: 0.00 0.00			
				Pressure: 0.00 0.00			
				T GPM (gpm): 251 SPP (psi): 3,750			
				AV (DC): 353 AV (DP): 235			
SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
14,603	91.20	0.50	7,123	7,509.37	-115.47	7,509.82	1.20
14,698	89.20	0.10	7,123	7,604.36	-114.98	7,604.81	2.15
14,793	90.60	0.20	7,123	7,699.36	-114.73	7,699.81	1.48
14,889	90.40	0.40	7,122	7,795.36	-114.22	7,795.80	0.29
14,984	89.10	0.00	7,123	7,890.35	-113.89	7,890.80	1.43
15,080	90.00	0.80	7,124	7,986.35	-113.22	7,986.79	1.25
15,166	91.10	1.50	7,123	8,072.33	-111.50	8,072.77	1.52
15,220	91.10	1.50	7,122	8,126.31	-110.08	8,126.74	0.00
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	17:30	11.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 13,417' TO 15,220'
17:30	18:00	0.50	P	DRLPRD	10	DRLLAT	RIG SERVICE
18:00	22:00	4.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN @ 600 GPM AND RECIPROCATATE PIPE, ROTATE PIPE @ 60 RPM, PUMP SLUG
22:00	02:00	4.00	P	DRLPRD	13	TRIP	TRIP OUT OF HOLE TO BASE OF CURVE
02:00	03:00	1.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN @ BASE OF CURVE
03:00	05:00	2.00	P	DRLPRD	13	TRIP	TRIP OUT OF HOLE TO 2,500'
05:00	06:00	1.00	P	DRLPRD	14	PULDSTR	RIG UP LAY DOWN MACHINE,LAY DOWN DP & BHA
Daily Operations Comments							
SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS							

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4411GH/01

Report Number:

020

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

CRAIG CART / STACEY REDDEN

Engineer/Manager:

ESPARZA, JESSE / MANGUM, DANNY

Report Date:

06/16/2014

Spud Date:

05/31/2014

Release Date:

DFS: 16.00

DOL: 18

AFE Days: 16

Last BOP T.:

06/12/2014

Safety & Environmental Incident:

No

Depth md/tvd (ft):

15,220.03 / 7,121.77

Progress:

ROP: / = 0.00

Proposed TD (ft):

15,233.00

Next Csg Point (ft):

15,223.03

Rig:

SIDEWINDER/222

Rig Phone:

713-997-1245

RKB (ft):

2,688.01

Ground Level (ft):

2,663.0

POB:

24

Total Man Hours:

288.00

AFE #:

160694/51659

Day Cost(\$):

345,878

Cum Cost(\$):

2,335,166

AFE(\$):

0

Drig

Comp

Fac

Total

Current Activity:

CICULATE AND WAIT ON CEMENT

24 Hr Summary:

LAY DOWN DP & BHA, RIG UP AND RUN 5 1/2 PRODUCTION CSG., CIRCULATE

24 Hr Forecast:

CEMENT 5 1/2 PRODUCTION CSG., SET SLIPS, NIPPLE DOWN BOP, PREPARE TO SKID RIG

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

JONATHAN MEEKS

Time:

21:00

Location:

JCTION TANK

Pit Temp (°F):

0

Depth (ft):

15,220.03

Density (ppg):

9.00

FV (s/qt):

58

PV (cp):

17

YP (lb/100ft²):

16

Gels (l):

14/18/20

WL (cc/30min):

10.40

HTHP (°F):

250

Cake (32nd):

2.00

Solids (lbm/bbl):

61

ECD (ppg):

9.0

D M Cost(\$):

\$2,917.98

C M Cost(\$):

\$94,766.43

Mud Additives

Used

BARITE 41

104

ENGINEERING

1

DRILL TREAT

4

OIL ABSORBENT CLAY

1

Bit#

S/N

Size (in)

Mfg

IADC Type

Model #

Jets

Depth In (ft)

Depth Out (ft)

Bit Rotations

On Btm Hrs Cum

Footage Cum (ft)

ROP Cum

WOB mm/mx (kip)

RPM rot/bit

Bit HP

HSI

PSI Drop (psi)

Jet Vel (ft/s)

Imp Force

Grading

I

O

D

L

B

G

O

R

Bit #

Bit #

Size(in)

MD(ft)/TVD(ft)

Fit LOT(ppg)

5.50

15,223.03 /

7,115.01

INVENTORY

Item

Inv

MUD DIESEL

4,811

DIESEL

10,053

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

100///

2

100///

MUD LOGGING

Trip Gas (units):

287 @ 287

Conn Gas (units):

05 @ 1,373

Form:

BG Gas (units):

1,083

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 6

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X

8.750

1.00

1.00

1

6 3/4" 1.50" 7/8 5.0 .31 RPG FBH P

1.750

6.750

29.98

30.98

1

FLOAT SUB

3.250

6.687

2.88

33.86

1

NMDC

3.250

6.812

3.35

37.21

1

NMDC

2.875

6.750

28.96

66.17

105

5" DP

4.276

5.000

2,357.34

2,423.51

1

DRILLING AGITATOR

3.250

6.750

12.99

2,436.50

1

SHOCK SUB

3.250

6.750

10.83

2,447.33

5"

DP

4.276

5.000

12,772.70

15,220.03

Total Length:

15,220.03

STRING LOADS

On Btm Torque:

Off Btm Torque:

Str. Wt. Up:

Str. Wt. Down:

Str. Wt. Rot.:

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

Jar Hrs:

Cum String Hours:

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

Liner ID:

SPM:

GPM:

SPR:

1 SPM:

Pressure:

2 SPM:

Pressure:

T GPM (gpm):

SPP (psi):

AV (DC):

353

AV (DP):

235

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

14,603

91.20

0.50

7,123

7,509.37

-115.47

7,509.82

1.20

14,698

89.20

0.10

7,123

7,604.36

-114.98

7,604.81

2.15

14,793

90.60

0.20

7,123

7,699.36

-114.73

7,699.81

1.48

14,889

90.40

0.40

7,122

7,795.36

-114.22

7,795.80

0.29

14,984

89.10

0.00

7,123

7,890.35

-113.89

7,890.80

1.43

15,080

90.00

0.80

7,124

7,986.35

-113.22

7,986.79

1.25

15,166

91.10

1.50

7,123

8,072.33

-111.50

8,072.77

1.52

15,220

91.10

1.50

7,122

8,126.31

-110.08

8,126.74

0.00

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

10:30

4.50

P

CASPRD1

14

PULDSTR

LDDP & BHA.

10:30

13:30

3.00

P

CASPRD1

23

RAMBLCK

INSTALL 5 1/2" CASING RAMS. RU CASING CREW.

13:30

02:30

13.00

P

CASPRD1

24

RUNCAS

RUN TOTAL OF 363 JOINTS 5 1/2" 17# HCP-110 LTC CASING TO 15,220'. LANDING COLLAR @ 15,170'. ORIO @ 15,127'. MID LATERAL MARKER @ 11,245'. BOC MARKER @ 7,390'. NCS FLOATATION COLLAR @ 7,176'. TOC MARKER @ 6,671'. RAN CENTRALIZERS EVERY 3RD JOINT TO TOC.

02:30

04:30

2.00

P

CASPRD1

15

CIRC

RIG UP CEMENT HEAD, RUPTURE DISC W/ 1960 PSI, CIRCULATE OUT AIR

04:30

06:00

1.50

N

CASPRD1

42

OTHER

CIRCULATE & WAITING ON CEMENT

Daily Operations Comments

SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS

<div>EP ENERGY</div> <div>Daily Drilling Report Onshore</div>			<div>Well Name/Wellbore No.: UNIVERSITY EAST 4411GH/01</div> <div>Country: USA</div> <div>State/OCSG: TEXAS</div> <div>Field/Permit#: WOLFCAMP EAST</div> <div>Supervisors: CRAIG CART / STACEY REDDEN</div> <div>Engineer/Manager: ESPARZA, JESSE / MANGUM, DANNY</div>			<div>Report Number: 021</div> <div>Report Date: 06/17/2014</div> <div>Spud Date: 05/31/2014</div> <div>Release Date: DFS: 17.00</div> <div>DOL: 19</div> <div>AFE Days: 16</div> <div>Last BOP T.: 06/12/2014</div> <div>Safety & Environmental Incident: No</div>					
<div>Depth md/tvd (ft): 15,220.03 / 7,121.77</div> <div>Progress: / = 0.00</div> <div>Proposed TD (ft): 15,233.00</div> <div>Next Csg Point (ft): 15,223.03</div>			<div>Rig: SIDEWINDER/222</div> <div>Rig Phone: 713-997-1245</div> <div>RKB (ft): 2,688.01</div> <div>Ground Level (ft): 2,663.0</div> <div>POB: 39</div> <div>Total Man Hours: 379.00</div>			<div>Drig</div> <div>Comp</div> <div>Fac</div> <div>Total</div> <div>AFE #:</div> <div>Day Cost(\$):</div> <div>Cum Cost(\$)</div> <div>AFE(\$):</div>					
<div>Current Activity: WALK RIG TO UNIVERSITY 4411 HH. RIG RELEASED @ 20:00 06/16/2014</div> <div>24 Hr Summary: WOC & BATCH MIXER. CEMENT CASING. ND. SET SLIPS. INSTALL CAP. RELEASE RIG.</div> <div>24 Hr Forecast: WALK RIG TO UNIVERSITY 4411 HH. ,</div>											
<div>MUD PROPERTIES</div> <div>Fluids Co.: HALLIBURTON</div> <div>Fluids Eng: JONATHAN MEEKS</div> <div>Time: 21:00</div> <div>Location: ICTION TANK</div> <div>Pit Temp ("F): 0</div> <div>Depth (ft): 15,220.03</div> <div>Density (ppg): 9.00</div> <div>FV (s/qt): 58</div> <div>PV (cp): 17</div> <div>YP (lb/100ft²): 16</div> <div>Gels (): 14/18/20</div> <div>WL (cc/30min): 10.40</div> <div>HTHP ("F): 250</div> <div>Cake (32nd"): 2.00</div> <div>Solids (lbm/bbl): 62</div> <div>ECD (ppg): 9.0</div>			<div>MUD MATERIALS</div> <div>D M Cost(\$): \$1,767.50</div> <div>C M Cost(\$): \$96,533.93</div> <div>Mud Additives</div> <div>Used</div> <div>BAROID RIG WASH</div> <div>Engineer Fuel Charge</div> <div>ENGINEERING</div>			<div>BIT RECORD</div> <div>Bit#</div> <div>S/N</div> <div>Size (in)</div> <div>Mfg</div> <div>IADC Type</div> <div>Model #</div> <div>Jets</div> <div>Depth In (ft)</div> <div>Depth Out (ft)</div> <div>Bit Rotations</div> <div>On Btm Hrs Cum</div> <div>Footage Cum (ft)</div> <div>ROP Cum</div> <div>WOB min/mx (kip)</div> <div>RPM rot/bit</div> <div>Bit HP</div> <div>HSI</div> <div>PSI Drop (psi)</div> <div>Jet Vel (ft/s)</div> <div>Imp Force</div>			<div>CASING</div> <div>Size(in)</div> <div>MD(ft)/TVD(ft)</div> <div>FIT/LOT(ppg)</div> <div>5.50</div> <div>15,223.03 /</div> <div>7,115.01</div>		
						<div>INVENTORY</div> <div>Item</div> <div>DIESEL</div> <div>MUD DIESEL</div> <div>Inv</div> <div>0</div> <div>0</div>					
						<div>SOLIDS CONTROL</div> <div>Skr</div> <div>Deck 1 Screens</div> <div>Deck 2 Screens</div> <div>1</div> <div>100///</div> <div>2</div> <div>100///</div>					
<div>MUD LOGGING</div> <div>Trip Gas (units): 287 @ 287</div> <div>Conn Gas (units)05 @ 1,373</div> <div>Form:</div> <div>BG Gas (units): 1,083</div> <div>Pore Pressure: (%)</div> <div>Surf to Surf: Lag Strokes: (min)</div> <div>Lag Time:</div>											
						<div>MUD PUMPS</div> <div>Pump Type:</div> <div>Liner ID:</div> <div>SPM:</div> <div>GPM:</div> <div>SPR:</div> <div>1 SPM:</div> <div>Pressure:</div> <div>2 SPM:</div> <div>Pressure:</div> <div>T GPM (gpm):</div> <div>AV (DC): 353</div> <div>#1</div> <div>#2</div> <div>#3</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>0.00</div> <div>SPP (psi):</div> <div>AV (DP): 235</div>					
<div>SURVEYS</div> <div>MD (ft)</div> <div>Inclination(")</div> <div>Azimuth (")</div> <div>TVD (ft)</div> <div>V Section (ft)</div> <div>+E/-W (ft)</div> <div>+N/-S (ft)</div> <div>Dog Leg ("'/100ft)</div> <div>14,603</div> <div>91.20</div> <div>0.50</div> <div>7,123</div> <div>7,509.37</div> <div>-115.47</div> <div>7,509.82</div> <div>1.20</div> <div>14,698</div> <div>89.20</div> <div>0.10</div> <div>7,123</div> <div>7,604.36</div> <div>-114.98</div> <div>7,604.81</div> <div>2.15</div> <div>14,793</div> <div>90.60</div> <div>0.20</div> <div>7,123</div> <div>7,699.36</div> <div>-114.73</div> <div>7,699.81</div> <div>1.48</div> <div>14,889</div> <div>90.40</div> <div>0.40</div> <div>7,122</div> <div>7,795.36</div> <div>-114.22</div> <div>7,795.80</div> <div>0.29</div> <div>14,984</div> <div>89.10</div> <div>0.00</div> <div>7,123</div> <div>7,890.35</div> <div>-113.89</div> <div>7,890.80</div> <div>1.43</div> <div>15,080</div> <div>90.00</div> <div>0.80</div> <div>7,124</div> <div>7,986.35</div> <div>-113.22</div> <div>7,986.79</div> <div>1.25</div> <div>15,166</div> <div>91.10</div> <div>1.50</div> <div>7,123</div> <div>8,072.33</div> <div>-111.50</div> <div>8,072.77</div> <div>1.52</div> <div>15,220</div> <div>91.10</div> <div>1.50</div> <div>7,122</div> <div>8,126.31</div> <div>-110.08</div> <div>8,126.74</div> <div>0.00</div>											
<div>OPERATION DETAILS</div> <div>FROM</div> <div>TO</div> <div>HRS</div> <div>OP CODE</div> <div>PHASE</div> <div>CODE</div> <div>ACTIVITY</div> <div>DESCRIPTION</div> <div>06:00</div> <div>10:30</div> <div>4.50</div> <div>N</div> <div>CASPRD1</div> <div>42</div> <div>OTHER</div> <div>WAITING ON CEMENT AND HALLIBURTON BATCH MIXER FOR SPACER. CEMENT ON LOCATION @ 07:30 HRS. BATCH MIXER ON LOCATION @ 09:00. RU BATCH MIXER.</div> <div>10:30</div> <div>14:00</div> <div>3.50</div> <div>P</div> <div>CASPRD1</div> <div>25</div> <div>PRIMCEM</div> <div>PJSM. TEST LINES TO 5K. PUMPED 40 BBLs 10.0 PPG TUNED SPACER. 305 BBLs (665 SKS W/ 2.58 YLD) 11.5 PPG LEAD CMT. 388 BBLs (1705 SKS W/ 1.29 YLD) 14.4 PPG TAIL CEMENT. DISPLACED W/ 352 BBLs 2% CLAY WEB. BUMPED PLUG 500 PSI OVER 06/19/14 @ 13:49 HRS.HELD 5 MIN. RELEASED PRESSURE. BLED BACK 2.5 BBLs. FLOATS HELD. 40 BBLs SPACER BACK TO SURFACE.</div> <div>14:00</div> <div>15:00</div> <div>1.00</div> <div>P</div> <div>CASPRD1</div> <div>25</div> <div>PRIMCEM</div> <div>RD CEMENTERS.</div> <div>15:00</div> <div>20:00</div> <div>5.00</div> <div>P</div> <div>CASPRD1</div> <div>29</div> <div>NDBOPE</div> <div>ND BOP. CUT CASING. INSTALL CAP. RELEASE RIG @ 20:00 06/16/2014</div>											
<div>Daily Operations Comments</div> <div>SIDEWINDER TOTAL DOWN TIME FOR WELL: 45 HRS</div>											