

DAILY DRILLING REPORT

[illegible]

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412/VH/OH				Report Number: 005									
				Country: USA				Report Date: 11/22/2013									
				State/OCSG: TEXAS				Spud Date: 11/22/2013									
				Field/Permit#: WOLF CAMP EAST				Release Date:									
				Supervisors: JOHN LAYTON / GARTH STARR				DFS: 0.00 DOL: 4 AFE Days: 10									
				Engineer/Manager: BRENT BAKER / EVANS/GAYDOS				Last BOP T.: 11/22/2013									
								Safety & Environmental Incident: No									
Depth md/tvd (ft): 903.00 / 902.99				Rig: NORAM/21				Drig				Comp		Fac		Total	
Progress (ft): 0.00				Rig Phone: 713-997-1265				AFE #:				161396/50154					
ROP: 0.0 / = 0.00				RKB (ft): 2,732.51				Day Cost(\$):				71,877		0		71,877	
Proposed TD (ft): 15,250.00				Ground Level (ft): 2,703.0				Cum Cost(\$):				450,391		0		450,391	
Next Csg Point (ft): 15,250.03				POB: 35 Total Man Hours: 0.00				AFE(\$):				0		0		0	
Current Activity: PICK UP DIRECTIONAL ASSY.																	
24 Hr Summary: RU RIGFLOOR AND EQUIPMENT, NU BOPE, TEST BOPE, NU FLOWLINE AND ROTATING HEAD																	
24 Hr Forecast: COMPLETE RU, P/U DIRECTIONAL ASSEMBLY, TIH, DRILL CEMENT AND SHOE TRACK, DRILL 8 3/4" VERTICAL SECTION																	
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING					
Fluids Co.: HALLIBURTON				D M Cost(\$): \$3,944.38				Bit# 1				Size(in)					
Fluids Eng: SCOTT DEHART				C M Cost(\$): \$3,944.38				S/N 7147735				MD(ft)/TVD(ft)					
Time: 18:00 Oil Cnt (%): 65				Mud Additives				Size (in) 8.75				903.00 / 903.00					
Location: PIT H2O Cnt (%): 23				PALLETS 26				Mfg HUGHES				15,250.03 / 7,145.01					
Pit Temp (°F): 1 Sand Cnt:				ENGINEERING 1				IADC Type									
Depth (ft): 903.00 MBT:				FUEL SURCHARGE 700				Model # T606X									
Density (ppg): 9.60 pH:				FORKLIFT 1				Jets 6X14									
FV (s/qt): 62 Pm:				TRANSPORTATION 603				Depth In (ft) 927									
PV (cp): 16 P/Mf:				SHRINK WRAP 26				Depth Out (ft) /									
YP (lb/100ft²): 18 Chloride:								On Btm Hrs Cum									
Gels (l): 14/19/24 Calcium:								Footage Cum (ft)									
WL: 10.00 LCM:								ROP Cum 0.0									
HTHP (°F): 250 ES (mV): 565.0								WOB mm/mx (kip) /									
Cake: 2.00 LGS (%): 6.30								RPM rot/bit /									
Solids (lbm/bbl): 9 Ex Lime (ppb): 5.3								Bit HP 0.00									
ECD: OWR: 74.0 / 26.0								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:				Grading I O D L B G O R									
Conn Gas (units): @				Lag Strokes:				Bit # 1									
Form:				Pore Pressure: (%) Lag Time: (min)													
BHA # 1						STRING LOADS						MUD PUMPS					
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque:						#1 #2 #3				
1	HUGHES T606X			8.758	1.00	1.00	Off Btm Torque:						Pump Type:				
1	1.5" FBH, 7/8 LOBE, 2.9 STAGE, 8"			6.750	28.51	29.51	Str. Wt. Up:						Liner ID:				
	UBHO		2.875	6.312	3.44	32.95	Str. Wt. Down:						SPM:				
1	NMDC		3.250	6.625	28.25	61.20	Str. Wt. Rot:						GPM:				
1	SPACER MONEL		2.875	6.500	30.38	91.58	Max Over Pull:						SPR:				
1	CROSSOVER		2.875	6.687	3.11	94.69							1 SPM:				
3	6 1/2" DRILL COLLARS		2.937	6.250	90.68	185.37							Pressure:				
1	CROSSOVER		2.875	6.687	3.06	188.43							2 SPM:				
Total Length: 188.43							BHA PROPERTIES						Pressure:				
							BHA Hrs:										
							Jar Hrs:										
							Cum String Hours: 0										
							Weight B Jars (kip):										
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)			
100		0.24		353.21		100		0.21		-0.02		0.21		0.24			
200		0.24		2.94		200		0.63		-0.04		0.63		0.04			
300		0.12		356.80		300		0.94		-0.03		0.94		0.12			
400		0.27		16.61		400		1.27		0.03		1.27		0.16			
500		0.49		9.29		500		1.92		0.16		1.92		0.22			
600		0.58		48.25		600		2.68		0.61		2.68		0.37			
700		0.38		21.66		700		3.32		1.11		3.32		0.29			
784		0.38		345.59		784		3.85		1.14		3.85		0.28			
OPERATION DETAILS																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION										
06:00	09:30	3.50	P	MIRU	01	MIRU	SPOOL UP DRAWWORKS, RU RIGFLOOR AND CATWALK, INSTALL BAILS AND ELEVATORS, FINISH RIGGING UP EQUIPMENT										
09:30	10:00	0.50	P	MIRU	01	MIRU	EP ENERGY RIG INSPECTION. RIG IN COMPLIANCE. RIG ON DAYRATE @ 17:00 HRS, 11/5/2013.										
10:00	15:00	5.00	P	CASSURF	28	NUBOPE	N.U. BOPE.										
15:00	18:00	3.00	P	CASSURF	30	TSTWCEQ	RU MONAHANS TESTERS, TEST BOPE: TEST CHOKE MANIFOLD										
18:00	18:30	0.50	P	CASSURF	31	TESTCAS	TEST CASING TO 1500 PSI FOR 30 MIN										
18:30	01:30	7.00	P	CASSURF	30	TSTWCEQ	TEST BOPE: TEST CHOKE MANIFOLD, BLIND RAMS, UPPER PIPE RAMS, HCR, TIW FLOOR VALVE, GREY VALVE, TOP VALVES, CHOKE AND KILL VALVES 250 PSI LOW F/ 5 MIN, 5000 PSI HIGH F/ 5 MIN; TEST ANNULAR 250 LOW F/ 5 MIN, 3500 PSI HIGH F/ 5 MIN; TEST STANDPIPE AND LINE TO MUD PPS T/ 4000 PSI.										
01:30	05:30	4.00	P	CASSURF	28	NUBOPE	NU ROTATING HEAD AND FLOWLINE										
05:30	06:00	0.50	P	DRLSURF	13	TRIP	PICK UP DIRECTIONAL ASSY.										
Daily Operations Comments																	
PDM: 1.50" FBH- 7/8- 2.9 W/ 8" STAB- BTS: 46" BTG: 35" BTB: 5.1" RPG: .17 DIRECTIONAL PLAN #1.																	

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412VH/OH

Report Number:

006

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / GARTH STARR

Engineer/Manager:

BRENT BAKER / EVANS/GAYDOS

Report Date:

11/23/2013

Spud Date:

11/22/2013

Release Date:

DFS: 1.00

DOL: 5

AFE Days: 10

Last BOP T.:

11/22/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

2,088.00 / 2,085.08

Progress (ft):

1,185.00

ROP:

1,185.0 / 10.50 = 112.86

Proposed TD (ft):

15,250.00

Next Csg Point (ft):

15,250.03

Rig:

NORAM21

Rig Phone:

713-997-1265

RKB (ft):

2,732.51

Ground Level (ft):

2,703.0

POB:

28

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

50,387

Cum Cost(\$):

500,778

AFE(\$):

0

Drig

Comp

Fac

Total

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

50,387

0

0

500,778

0

0

Current Activity:

DRILLING BACK BUILD AT 2088'; PTB: 7.90° INC, 254.5° AZM., TVD = 2,085', 2.1' BELOW, 4.1 RIGHT

24 Hr Summary:

TIH, DRILL CEMENT AND SHOE TRACK, DRILL 8 3/4" BACK BUILD SECTION

24 Hr Forecast:

DRILL TO KOP, TRIP FOR CURVE ASSY.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

18:00

Location:

PIT

Pit Temp (°F):

85

Depth (ft):

1,000.00

Density (ppg):

9.40

FV (s/qt):

63

PV (cp):

14

YP (lb/100ft²):

18

Gels (l):

12/17/23

WL:

10.00

HTHP (°F):

250

Cake:

2.00

Solids (lbm/bbl):

9

ECD (ppg):

9.8

MUD MATERIALS

D M Cost(\$):

\$9,305.61

C M Cost(\$):

\$13,249.99

Mud Additives

Used

TRANSPORTATION

904

EZ MUL

1

BARABLOK

10

ENGINEERING

1

MICA FINE

12

CALCIUM CHLORIDE PO

24

FUEL SURCHARGE

700

PALLETS

16

SHRINK WRAP

16

CEDAR FIBER

6

DRILL TREAT

5

BIT RECORD

Bit#

1

S/N

7147735

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

6X14

Depth In (ft)

927

Depth Out (ft)

Bit Rotations

40/80

On Btm Hrs Cum

10.50

Footage Cum (ft)

1,185

ROP Cum

112.9

WOB mm/mx (kip)

/

RPM rot/bit

40 / 80

Bit HP

1.08

HSI

1.20

PSI Drop (psi)

249.64

Jet Vel (ft/s)

176.07

Imp Force

406.39

CASING

Size(in)

MD(ft)/TVD(ft)

Fit LOT(ppg)

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

INVENTORY

Item

Inv

DIESEL

12,251

OBM FUEL

2,088

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

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 #

1

BHA # 1

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X

8.758

1.00

1.00

1

1.5" FBH, 7/8 LOBE, 2.9 STAGE, 8"

8.750

28.51

29.51

1

UBHO

2.875

6.312

3.44

32.95

1

NMDC

3.250

6.625

28.25

61.20

1

SPACER MONEL

2.875

6.500

30.38

91.58

1

CROSSOVER

2.875

6.687

3.11

94.69

3

6 1/2" DRILL COLLARS

2.937

6.250

90.68

185.37

1

CROSSOVER

2.875

6.687

3.06

188.43

Total Length:

188.43

STRING LOADS

On Btm Torque:

5,000

Off Btm Torque:

1,500

Str. Wt. Up:

100

Str. Wt. Down:

90

Str. Wt. Rot.:

95

Max Over Pull:

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

58.00

58.00

GPM:

242.79

242.79

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):

495

SPP (psi):

1,600

AV (DC):

AV (DP):

BHA PROPERTIES

BHA Hrs:

11

Jar Hrs:

Cum String Hours:

11

Weight B Jars (kip):

SURVEYS

MD (ft)

Inclination (°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

1,281

0.90

99.50

1,281

4.89

5.36

4.88

0.38

1,376

0.80

81.60

1,376

4.87

6.76

4.85

0.30

1,471

0.90

95.40

1,471

4.90

8.15

4.88

0.24

1,567

0.70

271.80

1,567

4.84

8.32

4.82

1.67

1,662

3.00

262.30

1,662

4.52

5.28

4.51

2.43

1,757

4.90

257.20

1,757

3.27

-1.15

3.28

2.03

1,852

6.60

255.30

1,851

0.97

-10.38

0.99

1.80

1,947

7.90

254.50

1,945

-2.19

-21.96

-2.14

1.37

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

08:00

2.00

P

CASSURF

14

PULDSTR

P.U. SIDEBUILD ASSEMBLY/ BIT #1.

08:00

08:30

0.50

P

CASSURF

12

RIGSVC

SERVICE DRAWWORKS AND TOP DRIVE

08:30

09:30

1.00

P

CASSURF

14

PULDSTR

PU DRILLPIPE TO 400'

09:30

12:30

3.00

N

CASSURF

43

RRTOP

REPAIR/REPLACE TOP DRIVE SWIVEL PACKING ASSEMBLY

12:30

14:00

1.50

P

CASSURF

14

PULDSTR

PU DRILLPIPE FROM 400' TO 842'

14:00

15:00

1.00

N

CASSURF

45

RRCIRC

REPAIR/TIGHTEN FLOWLINE DRESSER SLEAVE.

15:00

18:00

3.00

P

CASSURF

32

DRLFLOAT

DISPLACE WATER FROM HOLE, TAG CEMENT @ 885'. DRILL CEMENT, FC @ 890' AND SHOE @ 927'.

18:00

19:30

1.50

N

DRLPRD

47

RROTHR

REPAIR GENERATOR WIRING HARNESS

19:30

06:00

10.50

P

DRLPRD

08

DRLDIR

DRILL SIDEBUILD FROM 980' TO 2088'.

Daily Operations Comments

PDM: 1.50° FBH- 7/8- 2.9 W/ 8" STAB- BTS: 46°- BTG: 35°- BTB: 5.1°- RPG: .17 DIRECTIONAL PLAN #1.

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412VH/OH

Report Number:

007

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / GARTH STARR

Engineer/Manager:

BRENT BAKER / EVANS/GAYDOS

Report Date:

11/24/2013

Spud Date:

11/22/2013

Release Date:

DFS: 2.00

DOL: 6

AFE Days: 10

Last BOP T.:

11/22/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

5,036.01 / 5,009.76

Progress (ft):

2,948.01

ROP:

2,948.0 / 23.00 = 128.17

Proposed TD (ft):

15,250.00

Next Csg Point (ft):

15,250.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

2,732.51

Ground Level (ft):

2,703.0

POB:

33

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

63,340

Cum Cost(\$):

564,118

AFE(\$):

0

Drig

Comp

Fac

Total

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

0

0

0

63,340

564,118

0

Current Activity:

DRILLING BACK BUILD AT 5036'; PTB: 1.0° INC,240.40 ° AZM., TVD. = 5,009', 11.8BELOW, 0.6RIGHT

24 Hr Summary:

DRILL 2,088'-2,755', REPLACE MWD STANDPIPE TRANSDUCER, DRILL 2,755'-3,325', RIG SERVICE, DRILL 3,325'-5,036'

24 Hr Forecast:

DRILL TO KOP. TRIP FOR CURVE ASSY.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

18:00

Location:

FLOWLINE

Pit Temp (°F):

88

Depth (ft):

3,352.01

Density (ppg):

8.90

FV (s/qt):

45

PV (cp):

11

YP (lb/100ft²):

16

Gels (l):

8/12/16

WL:

9.00

HTHP (°F):

250

Cake:

2.00

Solids (lbm/bbl):

4

ECD (ppg):

9.2

Oil Cnt (%):

68

H2O Cnt (%):

25

Sand Cnt:

MBT:

pH:

Pm:

Pf/Mf:

Chloride:

Calcium:

LCM:

ES (mV):

576.0

LGS (%):

1.27

Ex Lime (ppb):

4.1

OWR:

73.0 / 27.0

D M Cost(\$):

\$19,641.10

C M Cost(\$):

\$32,891.09

Mud Additives

Used

INVERMUL

2

BAROID RIG WASH

3

PALLETS

25

FUEL SURCHARGE

1,050

ENGINEERING

1

TRANSPORTATION

2,375

SHRINK WRAP

40

BARABLOK

10

DRILL TREAT

50

LIME

15

GELTONE V

2

EZ MUL

Bit#

1

S/N

7147735

Size (in)

8.75

IADC Type

Mfg

Model #

HUGHES

Jets

6X14

Depth In (ft)

927

Depth Out (ft)

6,682

Bit Rotations

55/65

On Btm Hrs Cum

33.50

Footage Cum (ft)

4,134

ROP Cum

123.4

WOB mm/mx (kip)

10 / 18

RPM rot/bit

55 / 65

Bit HP

0.33

HSI

0.37

PSI Drop (psi)

112.99

Jet Vel (ft/s)

119.12

Imp Force

183.94

Grading

I O D L B G O R

Bit #

1

Bit # 1

1 1 NO A 1 I NOBHA

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

INVENTORY

Item

Inv

DIESEL

10,272

OBM FUEL

211

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

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

HUGHES T606X

8.758

1.00

1.00

1

1.5° FBH, 7/8 LOBE, 2.9 STAGE, 8"

6.750

28.51

29.51

1

UBHO

2.875

6.312

3.44

32.95

1

NMDC

3.250

6.625

28.25

61.20

1

SPACER MONEL

2.875

6.500

30.38

91.58

1

CROSSOVER

2.875

6.687

3.11

94.69

3

6 1/2" DRILL COLLARS

2.937

6.250

90.68

185.37

1

CROSSOVER

2.875

6.687

3.06

188.43

DRILL PIPE

2.750

6.625

6,493.58

6,682.01

Total Length:

6,682.01

STRING LOADS

On Btm Torque:

9,500

Off Btm Torque:

5,000

Str. Wt. Up:

150

Str. Wt. Down:

140

Str. Wt. Rot.:

145

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

23

Jar Hrs:

Cum String Hours:

34

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump Type:

DR

DR

Liner ID:

6.00

6.00

SPM:

58.00

58.00

GPM:

242.79

242.79

SPR:

1 SPM:

40.00

40.00

Pressure:

210.00

220.00

2 SPM:

0.00

0.00

Pressure:

0.00

0.00

T GPM (gpm):

500

SPP (psi):

2,150

AV (DC):

AV (DP):

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

4,135

9.10

239.30

4,111

-137.26

-300.27

-136.52

0.32

4,230

7.10

237.60

4,205

-144.27

-311.69

-143.50

2.12

4,325

5.40

234.30

4,299

-150.04

-320.28

-149.26

1.83

4,420

4.00

230.10

4,394

-154.79

-326.45

-153.99

1.52

4,515

3.10

226.80

4,489

-158.69

-330.87

-157.88

0.97

4,610

2.20

225.10

4,584

-161.74

-334.03

-160.92

0.95

4,705

1.50

221.70

4,679

-163.96

-336.15

-163.14

0.75

4,800

1.00

211.00

4,774

-165.60

-337.40

-164.78

0.58

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

12:00

6.00

P

DRLSURF

08

DRLDIR

DRILL FROM 2,088' TO 2,755'

12:00

12:30

0.50

N

DRLSURF

57

DIRFAIL

CHANGE OUT RYAN MWD TRANSDUCER ON STAND PIPE. DUE TO LOW PULSE

12:30

17:00

4.50

P

DRLSURF

08

DRLDIR

DRILL FROM 2,755' TO 3,325'

17:00

17:30

0.50

P

DRLSURF

12

RIGSVC

SERVICE RIG

17:30

06:00

12.50

P

DRLSURF

08

DRLDIR

DRILL FROM 3,325' TO 5036'

Daily Operations Comments

PDM: 1.50° FBH- 7/8- 2.9 W/ 8" STAB- BTS: 46'- BTG: 35'- BTB: 5.1'- RPG: 17 DIRECTIONAL PLAN #1.

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412VH/OH				Report Number: 008											
				Country: USA				Report Date: 11/25/2013											
				State/OCSG: TEXAS				Spud Date: 11/22/2013											
				Field/Permit#: WOLFCAMP EAST				Release Date:											
				Supervisors: JOHN LAYTON / GARTH STARR				DFS: 3.00 DOL: 7 AFE Days: 10											
				Engineer/Manager: BRENT BAKER / EVANS/GAYDOS				Last BOP T.: 11/22/2013											
								Safety & Environmental Incident: No											
Depth md/tvd (ft): 6,682.01 / 6,655.73				Rig: NORAM/21				Drig				Total							
Progress (ft): 1,646.00				Rig Phone: 713-997-1265				AFE #:				161396/50154							
ROP: 1,646.0 / 15.00 = 109.73				RKB (ft): 2,732.51				Day Cost(\$):				74,229							
Proposed TD (ft): 15,250.00				Ground Level (ft): 2,703.0				Cum Cost(\$):				638,347							
Next Csg Point (ft): 15,250.03				POB: 25 Total Man Hours: 0.00				AFE(\$):				0							
Current Activity: TRIP IN HOLE, PTB: 4° INC, 183.3° AZM., TVD = 6,655', 22.0 BEHIND, 2.3 LEFT																			
24 Hr Summary: DRILL FROM 5036' TO KOP AT 6682', CIRCULATE AND SLUG PIPE, TRIP FOR CURVE ASSY, LD BIT AND SIDE BUILD ASSEMBLY, PU CURVE ASSEMBLY AND SCRIBE SAME, TRIP IN HOLE																			
24 Hr Forecast: TRIP IN HOLE, DRILL CURVE																			
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING							
Fluids Co.: HALLIBURTON				D M Cost(\$): \$18,087.93				Bit# 1				Size(in)							
Fluids Eng: SCOTT DEHART				C M Cost(\$): \$50,979.02				S/N 7147735				MD(ft)/TVD(ft)							
Time: 18:00 Oil Cnt (%): 68				Mud Additives Used				Size (in) 8.75				903.00 / 903.00							
Location: FLOWLINE H2O Cnt (%): 25				INVERMUL 2				Mfg HUGHES				15,250.03 / 7,145.01							
Pit Temp (°F): 88 Sand Cnt:				BARITE 160				IADC Type											
Depth (ft): 3,352.01 MBT:				DRILL TREAT 15				Model # T606X											
Density (ppg): 8.90 pH:				BARABLOK 50				Jets 6X14											
FV (s/qt): 45 Pm:				EZ MUL 2				Depth In (ft) 927											
PV (cp): 11 P/Mf:				LIME 50				Depth Out (ft) 6,682											
YP (lb/100ft³): 16 Chloride:				ENGINEERING 1				Bit Rotations 45/65											
Gels (l): 8/12/16 Calcium:				CALCIUM CHLORIDE PO 112				On Btm Hrs Cum 48.50											
WL: 9.00 LCM:				GELTONE V 40				Footage Cum (ft) 5,780											
HTHP (°F): 250 ES (mV): 576.0								ROP Cum 119.2											
Cake: 2.00 LGS (%): 1.27								WOB mm/mx (kip) / 12 / 18											
Solids (lbm/bbl): 4 Ex Lime (ppb): 4.1								RPM rot/bit / 45 / 65											
ECD (ppg): 9.2 OWR: 73.0 / 27.0								Bit HP 0.86											
								HSI 0.95											
								PSI Drop (psi) 215.14											
								Jet Vel (ft/s) 162.56											
								Imp Force 350.23											
MUD LOGGING																			
Trip Gas (units): @ BG Gas (units): 374				Surt to Surt:				Grading				I O D L B G O R							
Conn Gas (units) 274 @				Lag Strokes:				Bit #											
Form:				Pore Pressure: (%)				Lag Time: (min)				Bit # 1 1 1 NO A 1 I NOBHA							
BHA # 2						STRING LOADS						MUD PUMPS							
Qty	Item Description			ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 16,000						#1 #2 #3					
1	SMITH FH121				8.750	1.00	1.00	Off Btm Torque: 3,000						Pump DR DR					
1	NOV 2.12" 4/5 7.0 SLICK PDM				6.750	26.34	27.34	Str. Wt. Up: 165						Type: DR DR					
1	UBHO			2.875	6.312	3.44	30.78	Str. Wt. Down: 155						Liner ID: 6.00 6.00					
1	MWD			3.250	6.625	28.25	59.03	Str. Wt. Rot.: 160						SPM: 58.00 58.00					
1	NM FLEX DC			2.875	6.500	31.02	90.05	Max Over Pull: 170						GPM: 242.79 242.79					
Total Length: 90.05													SPR:						
													1 SPM: 50.00 50.00						
													Pressure: 390.00 400.00						
													2 SPM: 0.00 0.00						
													Pressure: 0.00 0.00						
													T GPM (gpm): 457 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)					
5,941		0.40		166.60		5,915		-174.15		-341.12		-173.32		0.25					
6,035		0.30		141.20		6,009		-174.66		-340.89		-173.83		0.19					
6,130		0.40		194.10		6,104		-175.18		-340.81		-174.35		0.34					
6,225		0.40		198.10		6,199		-175.82		-340.99		-174.98		0.03					
6,319		0.20		173.60		6,293		-176.29		-341.08		-175.46		0.25					
6,415		0.40		228.80		6,389		-176.68		-341.31		-175.85		0.34					
6,509		0.20		161.80		6,483		-177.05		-341.51		-176.22		0.39					
6,604		0.40		154.50		6,578		-177.51		-341.31		-176.67		0.21					
OPERATION DETAILS																			
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION												
06:00	12:00	6.00	P	DRLPRD	08	DRLDIR	DRILL FROM 5,036' TO 5,797'												
12:00	12:30	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG AND TOPDRIVE. REMOVE EXCESS ICE FROM DERRICK AND TOP DRIVE.												
12:30	16:00	3.50	P	DRLPRD	08	DRLDIR	DRILL FROM 5,797' TO 6,081'												
16:00	16:30	0.50	N	DRLPRD	12	RIGSVC	REPLACE STANDPIPE PRESSURE SENSOR PLUG DAMAGED BY FALLING ICE. CLEAR ICE FROM SERVICE LOOP.												
16:30	22:00	5.50	P	DRLPRD	08	DRLDIR	DRILL FROM 608' TO 6,682'.												
22:00	22:30	0.50	P	DRLPRD	15	CIRC	CIRCULATE AND SLUG PIPE												
22:30	02:30	4.00	P	DRLPRD	13	TRIP	TRIP OUT HOLE												
02:30	03:30	1.00	P	DRLPRD	14	PULDSTR	LD BIT AND DIRECTIONAL SIDE BUILD ASSEMBLY												
03:30	04:30	1.00	P	DRLPRD	14	PULDSTR	PU DIRECTIONAL CURVE ASSEMBLY AND SCRIBE SAME												
04:30	06:00	1.50	P	DRLPRD	13	TRIP	TRIP IN HOLE TO 1,000'												
Daily Operations Comments																			
PDM: 2.12" FBH- 4/5- 7.0 W/ 8" STAB- BTS: 44'- BTG: 33'- BTB: 3.4'- RPG: .52 DIRECTIONAL PLAN #1. TOTAL OBM RECOVERED: 30 BBLs.																			

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412/VH/OH

Report Number:

009

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / GARTH STARR

Engineer/Manager:

BRENT BAKER / EVANS/GAYDOS

Report Date:

11/26/2013

Spud Date:

11/22/2013

Release Date:

DFS: 4.00

DOL: 8

AFE Days: 10

Last BOP T.:

11/22/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

6,963.01 / 6,923.62

Progress (ft):

281.00

ROP:

281.0 / 11.00 = 25.55

Proposed TD (ft):

15,250.00

Next Csg Point (ft):

15,250.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

2,732.51

Ground Level (ft):

2,703.0

POB:

26

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

75,026

Cum Cost(\$):

721,373

AFE(\$):

0

Drig

Comp

Fac

Total

0

0

0

75,026

0

0

0

721,373

0

0

0

0

Current Activity:

TRIP IN HOLE, PTB: 28.6" INC, 0.7" AZM., TVD.= 6,923', 18.5' BEHIND, 2.0' RIGHT

24 Hr Summary:

TRIP IN HOLE, RIG SERVICE, DRILL CURVE FROM 6682' TO 6837', REPAIR/REPLACE PASON CROWN/RIGFLOOR DEPTH SENSOR TRACKER, DRILL CURVE FROM 6837' TO 6964', CIRCULATE AND MIX/PP SLUG, CLEAR ICE FROM FLOOR, TOOH, LD MOTOR, PU NEW MOTOR, TIH

24 Hr Forecast:

TRIP IN HOLE, DRILL CURVE, CIRCULATE, TRIP FOR LATERAL ASSEMBLY

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

18:00

Location:

FLOWLINE

Pit Temp ("F):

102

Depth (ft):

5,656.01

Density (ppg):

9.10

FV (s/qt):

56

PV (cp):

15

YP (lb/100ft²):

18

Gels (l):

13/18/22

WL:

9.00

HTHP ("F):

250

Cake:

2.00

Solids (lbm/bbl):

6

ECD (ppg):

9.6

MUD MATERIALS

D M Cost(\$):

\$8,603.35

C M Cost(\$):

\$59,582.37

Mud Additives

Used

BAROID

160

INVERMUL

3

BAROID RIG WASH

2

LIME

20

DRILL TREAT

10

GELTONE V

10

EZ MUL

1

WALNUT MEDIUM

5

ENGINEERING

1

SALT-DRILLER'S ROCK

10

BIT RECORD

Bit#

2

S/N

RA2692

Size (in)

8.75

Mfg

SMITH

IADC Type

SMITH

Model #

FH121

Jets

3X22

Depth In (ft)

6,682

Depth Out (ft)

6,963

Bit Rotations

200/257

On Btm Hrs Cum

11.00

Footage Cum (ft)

281

ROP Cum

25.5

WOB mm/mx (kip)

12 / 40

RPM rot/bit

200 / 257

Bit HP

0.85

HSI

0.76

PSI Drop (psi)

161.08

Jet Vel (ft/s)

139.89

Imp Force

323.77

2RR

RA2692

SMITH

FH121

3X22

6,963

7,374

/

0.0

/

0.85

0.76

161.08

139.89

323.77

Grading

I O D L B G O R

Bit # 2

0 0 WT A 1 I NOBHA

Bit # 2RR

CASING

Size(in)

MD(ft)/TVD(ft)

FT/LOT(ppg)

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

INVENTORY

Item

Inv

DIESEL

6,896

OBM FUEL

6,193

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

252 @ 556

Conn Gas (units)

174 @ 216

Form:

BG Gas (units):

136

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 3

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH FH121

8.750

1.00

1.00

1

NOV 2.12" 4/5 7.0 SLICK PDM

6.750

26.28

27.28

1

UBHO

2.875

6.750

3.73

31.01

1

MWD

3.250

6.875

30.59

61.60

1

NM FLEX DC

2.937

6.500

31.09

92.69

Total Length:

92.69

STRING LOADS

On Btm Torque:

6,000

Off Btm Torque:

3,000

Str. Wt. Up:

180

Str. Wt. Down:

160

Str. Wt. Rot.:

170

Max Over Pull:

30

BHA PROPERTIES

BHA Hrs:

11

Jar Hrs:

Cum String Hours:

14

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

58.00

58.00

GPM:

242.79

242.79

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):

243

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)

6,698

2.10

7.50

6,672

-176.81

-341.14

-175.98

4.03

6,729

6.80

9.80

6,703

-174.44

-340.75

-173.60

15.17

6,761

10.80

6.80

6,734

-169.59

-340.07

-168.76

12.58

6,793

13.60

7.10

6,766

-162.87

-339.25

-162.05

8.75

6,824

16.80

4.70

6,795

-154.79

-338.43

-153.96

10.52

6,855

19.00

4.70

6,825

-145.29

-337.65

-144.47

7.10

6,887

21.50

2.50

6,855

-134.24

-336.97

-133.41

8.17

6,919

24.50

0.70

6,884

-121.74

-336.63

-120.92

9.63

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

09:00

3.00

P

DRLPRD

13

TRIP

TRIP IN HOLE 1000' - 6682'

09:00

09:30

0.50

P

DRLPRD

12

RIGSVC

SERVICE RIG AND TOP DRIVE

09:30

17:00

7.50

P

DRLPRD

09

DRLCRV

DRILL CURVE FROM 6682' TO 6837'

17:00

18:00

1.00

N

DRLPRD

49

RPR3

REPAIR/REPLACE PASON CROWN/RIGFLOOR DEPTH TRACKING SENSOR

18:00

21:30

3.50

P

DRLPRD

09

DRLCRV

DRILL CURVE FROM 6837' TO 6964'. PREPARE FOR TOOH DUE TO LOW MOTOR YIELD.

21:30

23:00

1.50

N

DRLPRD

15

CIRC

CIRCULATE AND MIX/PP SLUG

23:00

23:30

0.50

N

DRLPRD

70

SFTYSD

CLEAN RIGFLOOR OF EXCESS FALLEN ICE

23:30

03:00

3.50

N

DRLPRD

13

TRIP

TRIP OUT HOLE FROM 6963'

03:00

04:00

1.00

N

DRLPRD

14

PULDSTR

LD 2.12 DEG MUD MOTOR, PU 2.38 DEG MOTOR, CO MWD PROBE

04:00

06:00

2.00

N

DRLPRD

13

TRIP

TRIP IN HOLE TO 1,300'

Daily Operations Comments

PDM: 2.38° FBH- 4/5- 7.0 - BTS: 44°- BTG: 33°- BTB: 3.16°- RPG: .52 DIRECTIONAL PLAN #1.

OBM RECOVERED: 30 BBLs. TOTAL OBM RECOVERED = 30

Printed: 11/27/2013 8:00:48AM

1

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412/VH/OH

Report Number:

010

Country:

USA

Report Date:

11/27/2013

State/OCSG:

TEXAS

Spud Date:

11/22/2013

Field/Permit#:

WOLFCAMP EAST

Release Date:

DFS: 5.00

DOL: 9

AFE Days: 10

Supervisors:

JOHN LAYTON / GARTH STARR

Last BOP T.:

11/22/2013

Engineer/Manager:

BRENT BAKER / EVANS/GAYDOS

Safety & Environmental Incident:

No

Depth md/tvd (ft):

7,374.01 / 7,124.98

Progress (ft):

411.00

ROP:

411.0 / 14.50 = 28.34

Proposed TD (ft):

15,250.00

Next Csg Point (ft):

15,250.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

2,732.51

Ground Level (ft):

2,703.0

POB:

26

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

68,481

Cum Cost(\$):

789,854

AFE(\$):

0

Drig

Comp

Fac

Total

68,481

0

0

68,481

789,854

0

0

789,854

0

0

0

0

Current Activity:

LD BIT AND CURVE DIRECTIONAL TOOLS. PTB: 7374' MD, 87.3' INC, 0.1° AZM., TVD = 7122', VS 238.8', 4.0' BELOW, 0.3' RIGHT

24 Hr Summary:

TIH, DRILL CURVE 6963'-7121', RIG SERVICE, DRILL CURVE 7121'-7374', CIRCULATE AND SLUG PIPE, TOOH FROM 7374', LD BIT AND CURVE DIRECTIONAL TOOLS

24 Hr Forecast:

PU LATERAL DIRECTIONAL ASSEMBLY, TIH, DRILL LATERAL

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

18:00

Location:

FLOWLINE

Pit Temp ("F):

108

Depth (ft):

7,152.01

Density (ppg):

9.20

FV (s/qt):

58

PV (cp):

16

YP (lb/100ft²):

18

Gels (l):

14/19/24

WL:

9.00

HTHP ("F):

250

Cake:

2.00

Solids (lbm/bbl):

6

ECD (ppg):

9.6

MUD MATERIALS

D M Cost(\$):

\$5,441.05

C M Cost(\$):

\$65,023.42

Mud Additives

Used

INVERMUL

2

GELTONE V

10

DRILL TREAT

5

ENGINEERING

1

EZ MUL

2

BIT RECORD

Bit#

2RR

S/N

RA2692

Size (in)

8.75

Mfg

SMITH

IADC Type

Model #

FH121

Jets

3X22

Depth In (ft)

6,963

Depth Out (ft)

7,374

Bit Rotations

40/45

On Btm Hrs Cum

14.50

Footage Cum (ft)

411

ROP Cum

28.3

WOB mm/mx (kip)

/

RPM rot/bit

/

Bit HP

0.91

HSI

0.82

PSI Drop (psi)

169.52

Jet Vel (ft/s)

143.51

Imp Force

340.74

Grading

I O D L B G O R

Bit #

2RR

CASING

Size(in)

MD(ft)/TVD(ft)

FT/LOT(ppg)

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

INVENTORY

Item

Inv

DIESEL

7,973

OBM FUEL

4,675

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

75 @ 206

Conn Gas (units)

184 @ 230

Form:

BG Gas (units):

153

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 3

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

SMITH FH121

8.750

1.00

1.00

1

NOV 2.12" 4/5 7.0 SLICK PDM

6.750

26.28

27.28

1

UBHO

2.875

6.750

3.73

31.01

1

MWD

3.250

6.875

30.59

61.60

1

NM FLEX DC

2.937

6.500

31.09

92.69

Total Length:

92.69

STRING LOADS

On Btm Torque:

6,500

Off Btm Torque:

3,000

Str. Wt. Up:

190

Str. Wt. Down:

170

Str. Wt. Rot.:

180

Max Over Pull:

10

BHA PROPERTIES

BHA Hrs:

15

Jar Hrs:

Cum String Hours:

16

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

59.00

60.00

GPM:

246.98

251.16

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):

495

SPP (psi):

1,900

AV (DC):

369

AV (DP):

238

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

7,108

51.60

359.20

7,032

-6.89

-334.40

-6.07

13.82

7,140

55.60

357.60

7,051

18.85

-335.12

19.67

13.13

7,171

60.10

357.70

7,067

45.06

-336.20

45.88

14.52

7,203

65.90

358.10

7,082

73.54

-337.24

74.37

18.16

7,235

70.60

359.10

7,094

103.24

-337.96

104.07

14.97

7,266

74.30

359.70

7,103

132.79

-338.27

133.62

12.08

7,298

76.60

0.10

7,111

163.76

-338.32

164.59

7.29

7,330

80.30

0.10

7,118

195.11

-338.27

195.94

11.56

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:30

1.50

P

DRLPRD

13

TRIP

TRIP IN HOLE 1300'-3100', MISSED STAND WHILE TRIPPING-CLEAR STAND FROM DERRICK

07:30

10:00

2.50

P

DRLPRD

13

TRIP

TRIP IN HOLE 3100'-6963'

10:00

15:30

5.50

P

DRLINT5

09

DRLCRV

DRILL CURVE FROM 6963' TO 7121'

15:30

16:00

0.50

P

DRLPRD

12

RIGSVC

SERVICE RIG AND TOP DRIVE

16:00

01:00

9.00

P

DRLPRD

09

DRLCRV

DRILL CURVE FROM 7121' TO 7374'

01:00

01:30

0.50

P

DRLPRD

15

CIRC

CIRCULATE AND SLUG PIPE

01:30

05:30

4.00

P

DRLPRD

13

TRIP

TRIP OUT HOLE FROM 7374'

05:30

06:00

0.50

P

DRLPRD

14

PULDSTR

LD BIT AND CURVE DIRECTIONAL ASSEMBLY


Daily Operations Comments

PDM: 2.38" FBH- 4/5- 7.0 - BTS: 44'- BTG: 33'- BTB: 3.16'- RPG: .52 DIRECTIONAL PLAN #1.

OBM RECOVERED: 30 BBLs. TOTAL OBM RECOVERED = 60

Printed: 11/27/2013 8:01:34AM

1

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412/VH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLF CAMP EAST Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS/GAYDOS				Report Number: 011 Report Date: 11/28/2013 Spud Date: 11/22/2013 Release Date: DFS: 6.00 DOL: 10 AFE Days: 10 Last BOP T.: 11/22/2013 Safety & Environmental Incident: No																																																																							
Depth md/tvd (ft): 9,241.02 / 7,116.14 Progress (ft): 1,867.00 ROP: 1,867.0 / 15.00 = 124.47 Proposed TD (ft): 15,250.00 Next Csg Point (ft): 15,250.03				Rig: NORAM21 Rig Phone: 713-997-1265 RKB (ft): 2,732.51 Ground Level (ft): 2,703.0 POB: 30 Total Man Hours: 0.00				<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>161396/50154</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>52,154</td> <td>0</td> <td>0</td> <td>52,154</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>913,609</td> <td>0</td> <td>0</td> <td>913,609</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 #:	161396/50154				Day Cost(\$):	52,154	0	0	52,154	Cum Cost(\$)	913,609	0	0	913,609	AFE(\$):	0	0	0	0																																											
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Current Activity: DRILLING LATERAL @ 9,241'. PTB: 90.50° AZM: 358.30° TVD: 7,116'. 5.0' BELOW- 1' LEFT. TOTAL LATERAL: 1,886'. 24 Hr Summary: TRIP FOR LATERAL ASSEMBLY. DRILL LATERAL FROM 7,374 TO 9,241'. 24 Hr Forecast: DRILL LATERAL																																																																															
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																																																																									
Fluids Co.: HALLIBURTON Fluids Eng: SCOTT DEHART Time: 18:00 Oil Cnt (%): 66 Location: FLOWLINE H2O Cnt (%): 25 Pit Temp (°F): 96 Sand Cnt: Depth (ft): 7,820.02 MBT: Density (ppg): 9.10 pH: FV (s/qt): 52 Pm: PV (cp): 16 P/Mf: YP (lb/100ft²): 18 Chloride: Gels (l): 12/16/19 Calcium: WL: 9.00 LCM: HTHP (°F): 250 ES (mV): 575.0 Cake: 2.00 LGS (%): 2.40 Solids (lbm/bbl): 6 Ex Lime (ppb): 5.7 ECD (ppg): 9.6 OWR: 72.5 / 27.5		D M Cost(\$): \$8,157.04 C M Cost(\$): \$73,180.46 Mud Additives GELTONE V 12 PALLETES 10 LIME 10 BARABLOK 10 CALCIUM CHLORIDE PO 56 BAROID 160 ENGINEERING 1 INVERMUL 1 SHRINK WRAP 10 EZ MUL 1 TRANSPORTATION 404		Bit# 2RR 3 S/N RA2692 7145801 Size (in) 8.75 8.75 Mfg SMITH BAKER IADC Type FH121 T606X Model # Jets 3X22 6X18 Depth In (ft) 6,963 7,374 Depth Out (ft) 7,374 Bit Rotations 40/45 60/70 On Btm Hrs Cum 14.50 15.00 Footage Cum (ft) 411 1,867 ROP Cum 28.3 124.5 WOB mm/mx (kip) 30 / 45 25 / 35 RPM rot/bit 40 / 45 60 / 70 Bit HP 0.91 1.11 HSI 0.82 0.74 PSI Drop (psi) 169.52 130.88 Jet Vel (ft/s) 143.51 126.09 Imp Force 340.74 352.19		Size(in) MD(ft)/TVD(ft) FIT LOT(ppg) 9.63 903.00 / 903.00 5.50 15,250.03 / 7,145.01																																																																									
MUD LOGGING		Trip Gas (units): 238 @ 206 Conn Gas (units) 465 @ 230 Form:		BG Gas (units): 733 Surf to Surf: Lag Strokes: Lag Time: (min)		INVENTORY Item Inv DIESEL 5,829 OBM FUEL 770																																																																									
BHA # 4		STRING LOADS		MUD PUMPS																																																																											
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 6,000	#1																																																																								
1	HUGHES T 606X 6/18 JETS		8.750	1.00	1.00	Off Btm Torque: 4,000	#2																																																																								
1	6 3/4" 1.83" 7/8 6.4 .31 RPG FBH M		6.750	30.22	31.22	Str. Wt. Up: 190	#3																																																																								
1	UBHO SUB	2.875	6.312	3.44	34.66	Str. Wt. Down: 170																																																																									
1	NMDC	3.250	6.500	28.25	62.91	Str. Wt. Rot.: 175																																																																									
1	NM FLEX DC	2.875	6.690	30.40	93.31	Max Over Pull: 20																																																																									
105	5" DP	4.276	5.000	2,376.60	2,469.91																																																																										
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Total Length: 9,241.02						BHA PROPERTIES BHA Hrs: Jar Hrs: Cum String Hours: 16 Weight B Jars (kip):																																																																									
SURVEYS <table border="1"> <thead> <tr> <th>MD (ft)</th> <th>Inclination(°)</th> <th>Azimuth (°)</th> <th>TVD (ft)</th> <th>V Section (ft)</th> <th>+E/-W (ft)</th> <th>+N/-S (ft)</th> <th>Dog Leg (°/100ft)</th> </tr> </thead> <tbody> <tr><td>8,527</td><td>89.20</td><td>0.10</td><td>7,117</td><td>1,391.03</td><td>-330.35</td><td>1,391.84</td><td>2.19</td></tr> <tr><td>8,622</td><td>92.00</td><td>1.90</td><td>7,116</td><td>1,486.00</td><td>-328.69</td><td>1,486.81</td><td>3.50</td></tr> <tr><td>8,717</td><td>88.10</td><td>357.90</td><td>7,116</td><td>1,580.96</td><td>-328.86</td><td>1,581.77</td><td>5.88</td></tr> <tr><td>8,812</td><td>90.00</td><td>1.10</td><td>7,118</td><td>1,675.93</td><td>-329.69</td><td>1,676.74</td><td>3.92</td></tr> <tr><td>8,908</td><td>89.10</td><td>0.30</td><td>7,118</td><td>1,771.92</td><td>-328.52</td><td>1,772.73</td><td>1.25</td></tr> <tr><td>9,003</td><td>89.30</td><td>357.20</td><td>7,120</td><td>1,866.87</td><td>-330.59</td><td>1,867.68</td><td>3.27</td></tr> <tr><td>9,098</td><td>91.90</td><td>359.90</td><td>7,119</td><td>1,961.81</td><td>-332.99</td><td>1,962.63</td><td>3.95</td></tr> <tr><td>9,194</td><td>90.50</td><td>358.30</td><td>7,117</td><td>2,057.77</td><td>-334.50</td><td>2,058.59</td><td>2.21</td></tr> </tbody> </table>								MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)	8,527	89.20	0.10	7,117	1,391.03	-330.35	1,391.84	2.19	8,622	92.00	1.90	7,116	1,486.00	-328.69	1,486.81	3.50	8,717	88.10	357.90	7,116	1,580.96	-328.86	1,581.77	5.88	8,812	90.00	1.10	7,118	1,675.93	-329.69	1,676.74	3.92	8,908	89.10	0.30	7,118	1,771.92	-328.52	1,772.73	1.25	9,003	89.30	357.20	7,120	1,866.87	-330.59	1,867.68	3.27	9,098	91.90	359.90	7,119	1,961.81	-332.99	1,962.63	3.95	9,194	90.50	358.30	7,117	2,057.77	-334.50	2,058.59	2.21
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																																																																								
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FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																																																								
06:00	07:00	1.00	P	DRLPRD	14	PULDSTR	L.D. CURVE ASSEMBLY.																																																																								
07:00	07:30	0.50	P	DRLPRD	13	TRIP	CLEAN RIG FLOOR.																																																																								
07:30	10:30	3.00	P	DRLPRD	14	PULDSTR	P.U. BIT #3 AND LATERAL ASSEMBLY AND TEST.																																																																								
10:30	14:00	3.50	P	DRLPRD	13	TRIP	TIH W/ 25 STDs. 5" DP, P.U. NOV AGITATOR AND SHOCK SUB. TIH.																																																																								
14:00	16:30	2.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 7,374 TO 7622'.																																																																								
16:30	17:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																																																																								
17:00	21:30	4.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 7,622' TO 8,290'.																																																																								
21:30	22:00	0.50	N	DRLPRD	49	RPR3	CHANGE OUT MWD CABLE. DUE TO TRUCK DAMAGE.																																																																								
22:00	06:00	8.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 8,290' TO 9,241'.																																																																								
Daily Operations Comments PDM: 1.83" FBH- 7/8 6.4 - BTS: 47"- BTG: 36"- BTB: 5.07"- RPG: .31 DIRECTIONAL PLAN #1. OBM RECOVERED: TOTAL OBM RECOVERED = 60 BBLs.																																																																															

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412VH/OH		Report Number: 012	
				Country: USA		Report Date: 11/29/2013	
				State/OCSG: TEXAS		Spud Date: 11/22/2013	
				Field/Permit#: WOLFCAMP EAST		Release Date:	
				Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER		DFS: 7.00 DOL: 11 AFE Days: 10	
				Engineer/Manager: BRENT BAKER / EVANS/		Last BOP T.: 11/22/2013	
						Safety & Environmental Incident: No	
Depth md/tvd (ft): 10,900.02 / 7,132.79				Rig: NORAM/21		Drig	
Progress (ft): 1,659.00				Rig Phone: 713-997-1265		Comp	
ROP: 1,659.0 / 21.00 = 79.00				AFE #: 161396/50154		Fac	
Proposed TD (ft): 15,250.00				RKB (ft): 2,732.51		Total	
Next Csg Point (ft): 15,250.03				Ground Level (ft): 2,703.0		119,411	
				POB: 34 Total Man Hours: 0.00		1,033,021	
						0	
Current Activity: DRILL LATERAL @ 10,900 M.D. P.T.B. = 89.6° @ 359.9 AZI., 8.7' BELOW, 26.2' LEFT. LATERAL LENGTH = 3,545'							
24 Hr Summary: DRILL LATERAL 9,241' - 10,900'							
24 Hr Forecast: DRILL LATERAL							
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING	
Fluids Co.: HALLIBURTON		D M Cost(\$): \$16,005.47		Bit# 3		Size(in)	
Fluids Eng: SCOTT DEHART		C M Cost(\$): \$89,185.93		S/N 7145801		MD(ft)/TVD(ft)	
Time: 18:00 Oil Cnt (%): 66		Mud Additives		Size (in) 8.75		FIT/LOT(ppg)	
Location: FLOWLINE H2O Cnt (%): 24		Used		Mfg BAKER		9.63 903.00 / 903.00	
Pit Temp (°F): 142 Sand Cnt:		INVERMUL 2		IADC Type		5.50 15,250.03 / 7,145.01	
Depth (ft): 10,275.02 MBT:		LIME 45		Model #			
Density (ppg): 9.20 pH:		EZ MUL 2		Jets			
FV (s/qt): 54 Pm:		BARABLOK 40		Depth In (ft) 7,374			
PV (cp): 18 Pm/Mf:		GELTONE V 30		Depth Out (ft)			
YP (lb/100ft²): 19 Chloride:		BAROID RIG WASH 2		Bit Rotations			
Gels (l): 14/19/26 Calcium:		BARITE 41 160		On Btm Hrs Cum			
WL: 9.00 LCM:		ENGINEERING 1		Footage Cum (ft)			
HTHP (°F): 250 ES (mV): 545.0		PALLETES 10		ROP Cum			
Cake: 2.00 LGS (%): 5.30		SHRINK WRAP 10		WOB mm/mx (kip) 20 / 40			
Solids (lbm/bbl): 7 Ex Lime (ppb): 5.6		TRANSPORTATION 10		RPM rot/bit 60 / 75			
ECD (ppg): 9.6 OWR: 73.3 / 26.7		CALCIUM CHLORIDE PO 88		Bit HP 0.74			
MUD LOGGING				Grading I O D L B G O R			
Trip Gas (units): @ BG Gas (units): 665 Surf to Surf:				Bit # 3			
Conn Gas (units) 590 @ 811				Lag Strokes:			
Form: Pore Pressure: (%) Lag Time: (min)							
BHA # 4		STRING LOADS		MUD PUMPS			
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	#1	#2
1	HUGHES T 606X 6/18 JETS		8.750	1.00	1.00		
1	6 3/4" 1.83" 7/8 6.4 .31 RPG FBH M		6.750	30.22	31.22		
1	UBHO SUB	2.875	6.312	3.44	34.66		
1	NMDC	3.250	6.500	28.25	62.91		
1	NM FLEX DC	2.875	6.690	30.40	93.31		
105	5" DP	4.276	5.000	2,376.60	2,469.91		
1	DRILLING AGITATOR	2.500	6.625	12.98	2,482.89		
1	SHOCK SUB	2.250	6.500	10.85	2,493.74		
1	5" DP	4.276	5.000	6,747.27	9,241.02		
Total Length: 9,241.02							
BHA PROPERTIES							
BHA Hrs: 21							
Jar Hrs:							
Cum String Hours: 36							
Weight B Jars (kip):							
On Btm Torque: 17,000							
Off Btm Torque: 5,000							
Str. Wt. Up: 230							
Str. Wt. Down: 140							
Str. Wt. Rot.: 170							
Max Over Pull:							
T GPM (gpm): 293						SPP (psi): 3,800	
AV (DC): 369						AV (DP): 238	
SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
10,144	87.70	0.50	7,125	3,007.28	-342.49	3,008.13	1.20
10,239	90.20	1.20	7,127	3,102.25	-341.08	3,103.09	2.73
10,334	90.30	359.70	7,126	3,197.24	-340.33	3,198.09	1.58
10,429	89.50	358.60	7,126	3,292.23	-341.74	3,293.07	1.43
10,524	88.60	357.90	7,128	3,387.16	-344.64	3,388.01	1.20
10,619	88.50	357.70	7,130	3,482.05	-348.29	3,482.91	0.24
10,714	89.80	356.90	7,132	3,576.92	-352.76	3,577.80	1.61
10,809	89.60	359.90	7,132	3,671.87	-355.41	3,672.75	3.16
OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	17:30	11.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL 9,241' - 10,286'
17:30	18:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG
18:00	19:00	1.00	N	DRLPRD	45	RRCIRC	CIRC. WHILE REPLACE PONY ROD ON #2 MUD PUMP
19:00	20:30	1.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL 10,286' - 10,381'
20:30	22:00	1.50	N	DRLPRD	49	RPR3	CIRC. AND REPLACE PASON COMPUTER.
22:00	06:00	8.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL 10,381' - 10,900'
Daily Operations Comments							
PDM: 1.83" FBH- 7/8 6.4 - BTS: 47°- BTG: 36°- BTB: 5.07°- RPG: .31 DIRECTIONAL PLAN #1.							
OBM RECOVERED: TOTAL OBM RECOVERED = 60 BBLs. 85° BEGINS @ 7355 M.D.,							

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412VH/OH

Report Number:

013

Country:

USA

State/OCSG

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JIMMY DAVIS / JOHNNY CHATAGNIER

Engineer/Manager:

BRENT BAKER / EVANS/

Report Date:

11/30/2013

Spud Date:

11/22/2013

Release Date:

DFS: 8.00

DOL: 12

AFE Days: 10

Last BOP T.:

11/22/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

11,117.02 / 7,135.99

Progress (ft):

217.00

ROP:

217.0 / 9.50 = 22.84

Proposed TD (ft):

15,250.00

Next Csg Point (ft):

15,250.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

2,732.51

Ground Level (ft):

2,703.0

POB:

35

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

88,011

Cum Cost(\$):

1,121,032

AFE(\$):

1,989,127

Drig

Comp

Fac

Total

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

5.50

15,250.03 /

7,145.01

Current Activity:

TIH. PTB: 88.90° AZM: 0.30° TVD: 7,136'. 9' BELOW- 24.3' LEFT.

24 Hr Summary:

DRILL LATERAL 10,900' - 11,117'. C.&C. TRIP OUT OF HOLE. P.U. PDM AND MWD, TEST. REPAIR DRAWWORKS. BLOWER MOTOR. TIH.

24 Hr Forecast:

TIH. DRILL LATERAL

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

SCOTT DEHART

Time:

18:00

Location:

FLOWLINE

Pit Temp (°F):

142

Depth (ft):

11,117.02

Density (ppg):

9.10

FV (s/qt):

54

PV (cp):

18

YP (lb/100ft²):

19

Gels (l):

14/21/27

WL:

9.00

HTHP (°F):

250

Cake:

2.00

Solids (lbm/bbl):

7

ECD (ppg):

9.6

MUD MATERIALS

D M Cost(\$):

\$6,909.02

C M Cost(\$):

\$96,094.95

Mud Additives

Used

LIME

20

GELTONE V

6

BARABLOK

20

CALCIUM CHLORIDE PO

28

PALLETS

10

TRANSPORTATION

1

ENGINEERING

1

SHRINK WRAP

10

EZ MUL

1

INVERMUL

1

BIT RECORD

Bit#

3

S/N

7145801

Size (in)

8.75

Mfg

BAKER

IADC Type

T606X

Model #

T606X

Jets

6X18

Depth In (ft)

7,374

Depth Out (ft)

11,117

Bit Rotations

60/75

On Btm Hrs Cum

9.50

Footage Cum (ft)

217

ROP Cum

82.3

WOB mm/mx (kip)

30 / 45

RPM rot/bit

60 / 75

Bit HP

1.08

HSI

0.72

PSI Drop (psi)

128.21

Jet Vel (ft/s)

124.80

Imp Force

345.02

CASING

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

9.63

903.00 /

903.00

5.50

15,250.03 /

7,145.01

5.50

15,250.03 /

7,145.01

INVENTORY

Item

Inv

OBM FUEL

5,254

DIESEL

8,152

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

590 @ 811

Form:

BG Gas (units):

665

Surf to Surf:

Lag Strokes:

Pore Pressure:

(%)

Lag Time:

(min)

Grading

I

O

D

L

B

G

O

R

Bit #

3

1

8

WT

S

X

1

NO

PR

Bit #

4

BHA # 5

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

HUGHES T606X- 6 18 JETS

8.750

1.00

1.00

1

1.83° FBH 7/8 6.4 SLICK

6.750

29.98

30.98

1

UBHO

2.875

6.500

3.44

34.42

1

MWD

3.250

6.812

28.25

62.67

1

NMDC

2.875

6.500

30.40

93.07

75

5" DP

4.276

5.000

2,376.60

2,469.67

1

AGITATOR

2.500

6.687

12.98

2,482.65

1

SHOCK SUB

2.252

6.625

10.85

2,493.50

5"

DRILL PIPE

4.276

5.000

8,623.52

11,117.02

Total Length:

11,117.02

STRING LOADS

On Btm Torque:

14,000

Off Btm Torque:

5,000

Str. Wt. Up:

Str. Wt. Down:

Str. Wt. Rot.:

Max Over Pull:

BHA PROPERTIES

BHA Hrs:

10

Jar Hrs:

Cum String Hours:

46

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:

0.00

0.00

Pressure:

0.00

0.00

2 SPM:

0.00

0.00

Pressure:

0.00

0.00

T GPM (gpm):

SPP (psi):

AV (DC): 369

AV (DP): 238

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

10,334

90.30

359.70

7,126

3,197.24

-340.33

3,198.09

1.58

10,429

89.50

358.60

7,126

3,292.23

-341.74

3,293.07

1.43

10,524

88.60

357.90

7,128

3,387.16

-344.64

3,388.01

1.20

10,619

88.50

357.70

7,130

3,482.05

-348.29

3,482.91

0.24

10,714

89.80

356.90

7,132

3,576.92

-352.76

3,577.80

1.61

10,809

89.60

359.90

7,132

3,671.87

-355.41

3,672.75

3.16

10,904

89.80

1.10

7,133

3,766.86

-354.58

3,767.74

1.28

10,999

88.90

0.30

7,134

3,861.85

-353.42

3,862.72

1.27

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

15:30

9.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL 10,900' - 11,117'

15:30

16:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

16:00

19:00

3.00

P

DRLPRD

15

CIRC

CIRCULATE AND CONDITION MUD AND HOLE.

19:00

20:30

1.50

P

DRLPRD

13

TRIP

POOH TO BOC @7,500'.

20:30

21:30

1.00

P

DRLPRD

15

CIRC

CIRC. BTMS. UP @7,500'.

21:30

02:00

4.50

P

DRLPRD

15

CIRC

POOH, L.D. MWD, PDM, AND BIT #3

02:00

03:00

1.00

P

DRLPRD

13

TRIP

P.U. PDM AND MWD AND TEST.

03:00

05:30

2.50

N

DRLPRD

44

RRHOIST

CHANGE OUT BOLWER MOTOR ON DRAWWORKS AND HYD. HOSE TO IBOP.

05:30

06:00

0.50

P

DRLPRD

13

TRIP

M.U. BIT 4, TIH.

Daily Operations Comments

PDM: 1.83° FBH- 7/8 6.4 - BTS: 47°- BTG: 36°- BTB: 5.05°- RPG: .31. DIRECTIONAL PLAN #1.

OBM RECOVERED: TOTAL OBM RECOVERED = 60 BBLs. 85° BEGINS @ 7355 M.D.,

Daily Drilling
Report Onshore

Well Name/Wellbore No.:
UNIVERSITY EAST 4412VH/OH
Country: USA
State/OCSG: TEXAS
Field/Permit#: WOLFCAMP EAST
Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER
Engineer/Manager: BRENT BAKER / EVANS/

Report Number: 014
Report Date: 12/01/2013
Spud Date: 11/22/2013
Release Date:
DFS: 9.00 DOL: 13 AFE Days: 10
Last BOP T.: 11/22/2013
Safety & Environmental Incident: No

Depth md/tvd (ft): 12,564.03 / 7,126.29
Progress (ft): 1,447.00
ROP: 1,447.0 / 15.50 = 93.36
Proposed TD (ft): 15,250.00
Next Csg Point (ft): 15,250.03

Rig: NORAM/21
Rig Phone: 713-997-1265
RKB (ft): 2,732.51
Ground Level (ft): 2,703.0
POB: 34 Total Man Hours: 0.00

AFE #:
Day Cost(\$):
Cum Cost(\$):
AFE(\$):

Drig: 161396/50154
Comp: 0
Fac: 0
Total: 70,102
3,577,686
1,989,127
6,119,877

Current Activity: DRILLING LATERAL @ 12,564'. PTB: 90.20° AZM: 4.00 ° TVD: 7,126'- 8.8' ABOVE- 1.9' LEFT- TOTAL LATERAL: 5,209'
24 Hr Summary: TIH. CIRCULATE HOLE CLEAN. DRILL LATERAL 11,117' TO 12,564'.
24 Hr Forecast: TIH. DRILL LATERAL

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: ERNESTO CRUZ
Time: 18:00 Oil Cnt (%): 66
Location: FLOWLINE H2O Cnt (%): 24
Pit Temp (°F): 128 Sand Cnt:
Depth (ft): 11,204.02 MBT:
Density (ppg): 9.10 pH:
FV (s/qt): 59 Pm:
PV (cp): 18 P/Mf:
YP (lb/100ft²): 19 Chloride:
Gels (l): 15/21/27 Calcium:
WL: 9.00 LCM:
HTHP (°F): 250 ES (mV): 555.0
Cake: 2.00 LGS (%): 5.30
Solids (lbm/bbl): 7 Ex Lime (ppb): 6.1
ECD (ppg): 9.6 OWR: 73.3 / 26.7

MUD MATERIALS

D M Cost(\$): \$6,551.85
C M Cost(\$): \$102,963.14
Mud Additives
ENGINEERING
EZ MUL
LIME
CALCIUM CHLORIDE PO
BAROID
DRILL TREAT
OIL ABSORBENT CLAY

Used
1
15
28
382
12
6

BIT RECORD

Bit# 4
S/N 7142220
Size (in) 8.75
Mfg BAKER
IADC Type
Model # T606X
Jets 6X18
Depth In (ft) 11,117
Depth Out (ft)
Bit Rotations 65/65
On Btm Hrs Cum 15.50
Footage Cum (ft) 1,447
ROP Cum 93.4
WOB mm/mx (kip) 25 / 35
RPM rot/bit 65 / 65
Bit HP 0.93
HSI 0.62
PSI Drop (psi) 116.37
Jet Vel (ft/s) 118.90
Imp Force 313.14

Grading I O D L B G O R
Bit # 4

CASING

Size(in) MD(ft)/TVD(ft) FIT/LOT(ppg)
9.63 903.00 / 903.00
5.50 15,250.03 / 7,145.01
5.50 15,250.03 / 7,145.01

INVENTORY

Item Inv
OBM FUEL 6,128
DIESEL 7,614

SOLIDS CONTROL

Skr Deck 1 Screens Deck 2 Screens
1 50/50/50/50
2 50/50/50/50
3 50/50/50/50

MUD LOGGING

Trip Gas (units): 450 @
Conn Gas (units) 470 @ 811
Form:

BG Gas (units): 802
Surf to Surf:
Lag Strokes:
Lag Time: (min)

Pore Pressure: (%)

BHA # 5

Qty Item Description ID (in) OD (in) Len (ft) Cum (ft)
1 HUGHES T606X- 6 18 JETS 8.750 1.00 1.00
1 1.83° FBH 7/8 6.4 SLICK 6.750 29.98 30.98
1 UBHO 2.875 6.500 3.44 34.42
1 MWD 3.250 6.812 28.25 62.67
1 NMDC 2.875 6.500 30.40 93.07
75 5" DP 4.276 5.000 2,376.60 2,469.67
1 AGITATOR 2.500 6.687 12.98 2,482.65
1 SHOCK SUB 2.252 6.625 10.85 2,493.50
5" DRILL PIPE 4.276 5.000 11,874.52 14,368.03
Total Length: 14,368.03

STRING LOADS

On Btm Torque: 16,500
Off Btm Torque: 8,600
Str. Wt. Up: 235
Str. Wt. Down: 130
Str. Wt. Rot.: 175
Max Over Pull:

BHA PROPERTIES

BHA Hrs: 16
Jar Hrs:
Cum String Hours: 16
Weight B Jars (kip):

MUD PUMPS

#1 #2 #3
Pump DR DR
Type:
Liner ID: 6.00 6.00
SPM: 66.00 66.00
GPM: 276.28 276.28
SPR:
1 SPM: 50.00 50.00
Pressure: 825.00 875.00
2 SPM: 30.00 30.00
Pressure: 625.00 650.00
T GPM (gpm): 552 SPP (psi): 3,800
AV (DC): 369 AV (DP): 238

SURVEYS

MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft)
11,853 88.90 356.80 7,124 4,715.22 -346.86 4,716.08 5.08
11,948 90.30 1.40 7,125 4,810.17 -348.35 4,811.04 5.06
12,042 89.20 1.40 7,125 4,904.15 -346.06 4,905.01 1.17
12,137 90.50 5.30 7,125 4,998.98 -340.51 4,999.82 4.33
12,232 90.30 2.70 7,125 5,093.75 -333.88 5,094.58 2.74
12,327 89.30 0.60 7,125 5,188.71 -331.14 5,189.54 2.45
12,422 89.30 2.50 7,126 5,283.67 -328.57 5,284.49 2.00
12,517 90.20 4.40 7,127 5,378.51 -322.86 5,379.31 2.21

OPERATION DETAILS

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION
06:00 12:00 6.00 P DRLPRD 13 TRIP TRIP IN HOLE 10,998'.
12:00 14:00 2.00 P DRLPRD 15 CIRC WASH/ REAM 10,998' TO 11,117'. CIRCULATE EXCESSIVE SHALE FROM HOLE.
14:00 17:30 3.50 P DRLPRD 10 DRLLAT DRILL LATERAL 11,117' TO 11,172'.
17:30 18:00 0.50 P DRLPRD 12 RIGSVC RIG SERVICE.
18:00 06:00 12.00 P DRLPRD 10 DRLLAT DRILL LATERAL 11,172' - 12,564'.

Daily Operations Comments
PDM: 1.83° FBH- 7/8 6.4 - BTS: 47°- BTG: 36°- BTB: 5.05°- RPG: .31. DIRECTIONAL PLAN #1.
OBM RECOVERED: TOTAL OBM RECOVERED = 60 BBLs. 85° BEGINS @ 7355 M.D.,

EP ENERGY

Daily Drilling Report Onshore

Well Name/Wellbore No.: UNIVERSITY EAST 4412VH/OH

Country: USA

State/OCSS: TEXAS

Field/Permit#: WOLFCAMP EAST

Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER

Engineer/Manager: BRENT BAKER / EVANS/

Report Number: 015

Report Date: 12/02/2013

Spud Date: 11/22/2013

Release Date: DOL: 14 AFE Days: 10

Last BOP T.: 11/22/2013

Safety & Environmental Incident: No

Depth md/tvd (ft): 14,368.03 / 7,127.87

Progress (ft): 1,804.00

ROP: 1,804.0 / 23.50 = 76.77

Proposed TD (ft): 15,250.00

Next Csg Point (ft): 15,250.03

Rig: NORAM/21

Rig Phone: 713-997-1265

RKB (ft): 2,732.51

Ground Level (ft): 2,703.0

POB: 26

Total Man Hours: 0.00

AFE #:

Day Cost(\$):

Cum Cost(\$):

AFE(\$):

Drig

Comp

Fac

Total

161396/50154

72,156

0

0

3,649,842

0

0

3,649,842

1,989,127

3,860,750

270,000

6,119,877

Current Activity: DRILLING LATERAL @ 14,368'. PTB: 89.90° AZM: .70 TVD: 7,128'. 1' ABOVE- 9.5' RIGHT. TOTAL LATERAL: 7,013'.

24 Hr Summary: DRILL LATERAL FROM 12,564' TO 14,368'.

24 Hr Forecast: DRILL LATERAL TO TD. CIRCULATE HOLE CLEAN. POOH TO RUN 5 1/2" PROD. CSG.

MUD PROPERTIES

Fluids Co.: HALLIBURTON

Fluids Eng: ERNESTO CRUZ

Time: 18:00

Location: FLOWLINE

Pit Temp (°F): 146

Depth (ft): 13,135.03

Density (ppg): 9.20

FV (s/qt): 56

PV (cp): 15

YP (lb/100ft²): 15

Gels (l): 13/15/19

WL: 9.00

HTHP (°F): 250

Cake: 2.00

Solids (lbm/bbl): 7

ECD (ppg): 9.6

MUD MATERIALS

D M Cost(\$): \$9,131.13

C M Cost(\$): \$112,094.27

Mud Additives

Used

LIME

ENGINEERING

DRILL TREAT

CALCIUM CHLORIDE PO

INVERMUL

BARABLOK

CALCIUM CHLORIDE PEI

GELTONE V

EZ MUL

BIT RECORD

Bit# 4

S/N 7142220

Size (in) 8.75

Mfg BAKER

Model # T606X

Jets 6X18

Depth In (ft) 11,117

Depth Out (ft) 65/65

Bit Rotations 39.00

On Btm Hrs Cum 3,251

Footage Cum (ft) 83.4

ROP Cum 25/35

WOB mm/mx (kip) /

RPM rot/bit /

Bit HP 65 / 65

HSI 0.81

PSI Drop (psi) 105.85

Jet Vel (ft/s) 113.40

Imp Force 284.84

Grading I O D L B G O R

Bit # Bit # 4

CASING

Size(in) 9.63

MD(ft)/TVD(ft) 903.00 / 903.00

5.50 15,250.03 / 7,145.01

5.50 15,250.03 / 7,145.01

Item OBM FUEL 9,171

DIESEL 9,139

Inventory

Item Inv

Skr Deck 1 Screens Deck 2 Screens

1 50/50/50/50

2 50/50/50/50

3 50/50/50/50

SOLIDS CONTROL

Skr Deck 1 Screens Deck 2 Screens

1 50/50/50/50

2 50/50/50/50

3 50/50/50/50

MUD LOGGING

Trip Gas (units): @

Conn Gas (units) 680 @ 811

Form:

BG Gas (units): 896

Pore Pressure: (%)

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

BHA # 5

Qty Item Description ID (in) OD (in) Len (ft) Cum (ft)

1 HUGHES T606X- 6 18 JETS 2.875 6.500 1.00 1.00

1 1.83° FBH 7/8 6.4 SLICK 2.875 6.500 29.98 30.98

1 UBHO 2.875 6.500 3.44 34.42

1 MWD 3.250 6.812 28.25 62.67

1 NMDC 2.875 6.500 30.40 93.07

75 5" DP 4.276 5.000 2,376.60 2,469.67

1 AGITATOR 2.500 6.687 12.98 2,482.65

1 SHOCK SUB 2.252 6.625 10.85 2,493.50

5" DRILL PIPE 4.276 5.000 11,874.52 14,368.03

Total Length: 14,368.03

STRING LOADS

On Btm Torque: 18,500

Off Btm Torque: 8,800

Str. Wt. Up: 260

Str. Wt. Down: 110

Str. Wt. Rot.: 170

Max Over Pull:

BHA PROPERTIES

BHA Hrs: 24

Jar Hrs:

Cum String Hours: 39

Weight B Jars (kip):

MUD PUMPS

#1 #2 #3

Pump DR DR

Type:

Liner ID: 6.00 6.00

SPM: 63.00 63.00

GPM: 263.72 263.72

SPR:

1 SPM: 50.00 50.00

Pressure: 975.00 1,000.00

2 SPM: 30.00 30.00

Pressure: 700.00 725.00

T GPM (gpm): 527 SPP (psi): 3,900

AV (DC): 340 AV (DP): 247

SURVEYS

MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E-W (ft) +N-S (ft) Dog Leg (°/100ft)

13,656 88.70 358.00 7,122 6,516.48 -313.03 6,517.27 2.55

13,751 89.60 359.60 7,123 6,611.44 -315.02 6,612.23 1.93

13,846 89.80 0.20 7,124 6,706.44 -315.19 6,707.23 0.67

13,941 90.50 5.10 7,123 6,801.32 -310.79 6,802.10 5.21

14,036 90.10 2.80 7,123 6,896.10 -304.25 6,896.87 2.46

14,131 89.00 357.80 7,124 6,991.07 -303.75 6,991.83 5.39

14,226 88.00 356.70 7,126 7,085.91 -308.31 7,086.69 1.56

14,321 89.90 0.70 7,128 7,180.84 -310.46 7,181.62 4.66

OPERATION DETAILS

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION

06:00 13:00 7.00 P DRLPRD 10 DRLLAT DRILL LATERAL 12,564' - 12,943'

13:00 13:30 0.50 P DRLPRD 12 RIGSVC SERVICE RIG

13:30 06:00 16.50 P DRLPRD 10 DRLLAT DRILL LATERAL 12,943' - 14,368'.

Daily Operations Comments

PDM: 1.83° FBH- 7/8 6.4 - BTS: 47°- BTG: 36°- BTB: 5.05°- RPG: .31. DIRECTIONAL PLAN #1.

OBM RECOVERED = 25 BBLs. TOTAL OBM RECOVERED = 85 BBLs. 85° BEGINS @ 7355 M.D.,

Daily Drilling
Report Onshore

Well Name/Wellbore No.:
UNIVERSITY EAST 4412VH/OH
Country: USA
State/OCSG: TEXAS
Field/Permit#: WOLFCAMP EAST
Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER
Engineer/Manager: BRENT BAKER / EVANS/

Report Number: 016
Report Date: 12/03/2013
Spud Date: 11/22/2013
Release Date:
DFS: 11.00 DOL: 15 AFE Days: 10
Last BOP T.: 11/22/2013
Safety & Environmental Incident: No

Depth md/tvd (ft): 15,279.03 / 7,140.95
Progress (ft): 911.00
ROP: 911.0 / 10.00 = 91.10
Proposed TD (ft): 15,279.00
Next Csg Point (ft): 15,279.03

Rig: NORAM/21
Rig Phone: 713-997-1265
RKB (ft): 2,732.51
Ground Level (ft): 2,703.0
POB: 36 Total Man Hours: 0.00

AFE #:
Day Cost(\$):
Cum Cost(\$):
AFE(\$):

Drig: 161396/50154
Comp: 0
Fac: 0
Total: 74,190
1,351,819
1,989,127
6,119,877

Current Activity: PREP TO R.U. CSG. TOOLS. PTB: 89.10° AZM: 0.30° TVD: 7,140'. 7.3' BELOW- 2.0' LEFT- TOTAL LATERAL: 7,924'.
24 Hr Summary: DRILL LATERAL TO 15,279' M.D. (TVD= 7141') CIRC. AND COND MUD AND HOLE. T.O.H. TO BOC. CIRC. BTMS. UP. POOH. LAY DOWN
DIRECTIONAL ASSY.
24 Hr Forecast: RUN 5 1/2" PROD. CSG. CIRC. AND CEMENT. 5 1/2" CSG.

MUD PROPERTIES
MUD MATERIALS

BIT RECORD

CASING

Fluids Co.: HALLIBURTON
Fluids Eng: ERNESTO CRUZ
Time: 18:00 Oil Cnt (%): 65
Location: FLOWLINE H2O Cnt (%): 24
Pit Temp ("F): 150 Sand Cnt:
Depth (ft): 15,279.03 MBT:
Density (ppg): 9.30 pH:
FV (s/qt): 56 Pm:
PV (cp): 15 P/Mf:
YP (lb/100ft²): 16 Chloride:
Gels (l): 13/15/19 Calcium:
WL: 9.00 LCM:
HTHP ("F): 250 ES (mV): 565.0
Cake: 2.00 LGS (%): 6.60
Solids (lbm/bbl): 8 Ex Lime (ppb): 538.0
ECD (ppg): 9.6 OWR: 73.0 / 27.0

D M Cost(\$): \$8,842.25
C M Cost(\$): \$120,936.52
Mud Additives Used
OIL ABSORBENT CLAY 7
TRANSPORTATION 3
LIME 30
SHRINK WRAP 14
BARABLOK 20
DRILL TREAT 7
FUEL SURCHARGE 350
PALLETES 14
ENGINEERING 1
CALCIUM CHLORIDE PO 56
INVERMUL 2
EZ MUL 1
GELTONE V 13

Bit# 4
S/N 7142220
Size (in) 8.75
Mfg BAKER
IADC Type T606X
Model #
Jets 6X18
Depth In (ft) 11,117
Depth Out (ft) 15,279
Bit Rotations 60/70
On Btm Hrs Cum 48.00
Footage Cum (ft) 4,162
ROP Cum 86.7
WOB mm/mx (kip) 25 / 35
RPM rot/bit 60 / 70
Bit HP 0.73
HSI 0.49
PSI Drop (psi) 99.13
Jet Vel (ft/s) 109.74
Imp Force 266.76

Size(in) 9.63
MD(ft)/TVD(ft) 903.00 / 903.00
5.50 15,279.03 / 7,141.01
5.50 15,279.03 / 7,141.01

INVENTORY

SOLIDS CONTROL

Trip Gas (units): @
Conn Gas (units) 775 @ 811
Form:

BG Gas (units): 839
Pore Pressure: (%)

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

Grading
Bit #
Bit # 4

I O D L B G O R
1 2 BT S X I NO TD

BHA # 5

STRING LOADS

MUD PUMPS

Qty Item Description ID (in) OD (in) Len (ft) Cum (ft)
1 HUGHES T606X- 6 18 JETS 8.750 1.00 1.00
1 1.83" FBH 7/8 6.4 SLICK 6.750 29.98 30.98
1 UBHO 2.875 6.500 3.44 34.42
1 MWD 3.250 6.812 28.25 62.67
1 NMDC 2.875 6.500 30.40 93.07
75 5" DP 4.276 5.000 2,376.60 2,469.67
1 AGITATOR 2.500 6.687 12.98 2,482.65
1 SHOCK SUB 2.252 6.625 10.85 2,493.50
5" DRILL PIPE 4.276 5.000 12,785.53 15,279.03
Total Length: 15,279.03

On Btm Torque: 17,000
Off Btm Torque: 9,000
Str. Wt. Up: 275
Str. Wt. Down: 90
Str. Wt. Rot.: 175
Max Over Pull:
BHA Hrs: 9
Jar Hrs:
Cum String Hours: 48
Weight B Jars (kip):

#1 #2 #3
Pump DR DR
Type: DR DR
Liner ID: 6.00 6.00
SPM: 61.00 61.00
GPM: 255.35 255.35
SPR:
1 SPM: 30.00 50.00
Pressure: 700.00 1,000.00
2 SPM: 50.00 30.00
Pressure: 975.00 725.00
T GPM (gpm): 510 SPP (psi): 3,850
AV (DC): 340 AV (DP): 247

SURVEYS

OPERATION DETAILS

MD (ft) Inclination(°) Azimuth (°) TVD (ft) V Section (ft) +E/-W (ft) +N/-S (ft) Dog Leg (°/100ft)
14,606 89.70 358.30 7,127 7,465.79 -308.80 7,466.56 1.49
14,701 88.40 357.30 7,129 7,560.69 -312.45 7,561.48 1.73
14,796 88.70 0.10 7,131 7,655.62 -314.61 7,656.41 2.96
14,891 88.20 358.90 7,134 7,750.58 -315.43 7,751.37 1.37
14,986 88.10 358.50 7,137 7,845.50 -317.59 7,846.30 0.43
15,081 89.50 359.20 7,139 7,940.45 -319.49 7,941.25 1.65
15,176 89.40 0.10 7,139 8,035.44 -320.07 8,036.25 0.95
15,232 89.10 0.30 7,140 8,091.44 -319.88 8,092.24 0.64

FROM TO HRS OP CODE PHASE CODE ACTIVITY DESCRIPTION
06:00 15:00 9.00 P DRLPRD 10 DRLLAT DRILL LATERAL 14,368' - 15,279'. PTB: 89.10° AZM: 0.30° TVD: 7,140'. 7.3' BELOW- 2.0' LEFT- TOTAL LATERAL: 7,924'.
15:00 15:30 0.50 P DRLPRD 12 RIGSVC SERVICE RIG
15:30 20:30 5.00 P DRLPRD 15 CIRC CIRCULATE AND CONDITION MUD AND HOLE.
20:30 23:30 3.00 P DRLPRD 13 TRIP POOH TO BOC.
23:30 00:30 1.00 P DRLPRD 15 CIRC CIRCULATE BTMS. UP @ BOC.
00:30 05:00 4.50 P DRLPRD 13 TRIP POOH, L.D. DIRECTIONAL ASSEMBLY.
05:00 06:00 1.00 P DRLPRD 13 TRIP CLEAN RIG FLOOR. REMOVE RIG ELEVATORS AND ELEVATORS. P.U. CSG. BALES.

Daily Operations Comments
PDM: 1.83" FBH- 7/8 6.4 - BTS: 47"- BTG: 36"- BTB: 5.05"- RPG: .31. DIRECTIONAL PLAN #1.
OBM RECOVERED = 20 BBLs. TOTAL OBM RECOVERED = 105 BBLs.

Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4412VH/OH		Report Number: 017 Report Date: 12/04/2013 Spud Date: 11/22/2013 Release Date: _____ DFS: 12.00 DOL: 16 AFE Days: 10 Last BOP T.: 11/22/2013 Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JIMMY DAVIS / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS/ DODD			

Depth md/tvd (ft): 15,279.03 / 7,140.95 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,279.00 Next Csg Point (ft): 15,279.03	Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,732.51 Ground Level (ft): 2,703.0 POB: 48 Total Man Hours: 0.00	<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 #: 161396/50154</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$): 119,073</td> <td></td> <td>0</td> <td>0</td> <td>119,073</td> </tr> <tr> <td>Cum Cost(\$): 1,463,551</td> <td></td> <td>0</td> <td>0</td> <td>1,463,551</td> </tr> <tr> <td>AFE(\$): 1,989,127</td> <td></td> <td>3,860,750</td> <td>270,000</td> <td>6,119,877</td> </tr> </table>		Drig	Comp	Fac	Total	AFE #: 161396/50154					Day Cost(\$): 119,073		0	0	119,073	Cum Cost(\$): 1,463,551		0	0	1,463,551	AFE(\$): 1,989,127		3,860,750	270,000	6,119,877
	Drig	Comp	Fac	Total																							
AFE #: 161396/50154																											
Day Cost(\$): 119,073		0	0	119,073																							
Cum Cost(\$): 1,463,551		0	0	1,463,551																							
AFE(\$): 1,989,127		3,860,750	270,000	6,119,877																							

Current Activity: DISPLACE PLUG.
24 Hr Summary: RUN 5 1/2" PROD. CSG. TO TD. CIRC. AND CEMENT. 5 1/2" CSG.
24 Hr Forecast: BUMP PLUG. WASH THRU SURFACE EQUIPMENT. N.D. BOPE, LIFT STACK. SET CSG. SLIPS, CUT PIPE. N.U. CAP FLG. N.D. ROT. HEAD. SET STACK BACK. RELEASE RIG. PREP RIG FOR SKID OVER UNIVERSITY 44 12 WH.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING					
Fluids Co.: HALLIBURTON Fluids Eng: ERNESTO CRUZ Time: 18:00 Location: PIT Pit Temp: _____ Depth (ft): 15,279.03 Density (ppg): 9.30 FV (s/qt): 56 PV (cp): 15 YP (lb/100ft²): 17 Gels (l): 13/15/19 WL: 9.00 HTHP ("F): 250 Cake: 2.00 Solids (lbm/bbl): 8 ECD (ppg): 9.6	Oil Cnt (%): 65 H2O Cnt (%): 24 Sand Cnt: _____ MBT: _____ pH: _____ Pm: _____ Pf/Mf: _____ Chloride: _____ Calcium: _____ LCM: _____ ES (mV): 560.0 LGS (%): 5.10 Ex Lime (ppb): 538.0 OWR: 73.0 / 27.0	D M Cost(\$): \$3,890.74 C M Cost(\$): \$124,827.26 Mud Additives GELTONE V 1 BAROID 320 SALT-DRILLER'S ROCK 2 DRILL TREAT 4 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 mm/mx (kip) / / RPM rot/bit / / Bit HP _____ HSI _____ PSI Drop (psi) _____ Jet Vel (ft/s) _____ Imp Force _____	Size(in) _____ MD(ft)/TVD(ft) _____ FT/LOT(ppg) _____ 9.63 903.00 / 903.00 5.50 15,279.03 / 7,141.01 5.50 15,279.03 / 7,141.01	Inventory <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Item</th> <th>Inv</th> </tr> <tr> <td>DIESEL</td> <td>8,867</td> </tr> <tr> <td>OBM FUEL</td> <td>5,558</td> </tr> </table>	Item	Inv	DIESEL	8,867	OBM FUEL	5,558
Item	Inv										
DIESEL	8,867										
OBM FUEL	5,558										
MUD LOGGING		MUD LOGGING		MUD LOGGING		MUD LOGGING					
Trip Gas (units): @ Conn Gas (units) 775 @ 811 Form: _____	BG Gas (units): 839 Pore Pressure: _____ (%) _____	Surf to Surf: _____ Lag Strokes: _____ Lag Time: _____ (min) _____	Grading I O D L B G O R Bit # _____ Bit # _____								

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): 340		AV (DP): 247	

SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
14,606	89.70	358.30	7,127	7,465.79	-308.80	7,466.56	1.49
14,701	88.40	357.30	7,129	7,560.69	-312.45	7,561.48	1.73
14,796	88.70	0.10	7,131	7,655.62	-314.61	7,656.41	2.96
14,891	88.20	358.90	7,134	7,750.58	-315.43	7,751.37	1.37
14,986	88.10	358.50	7,137	7,845.50	-317.59	7,846.30	0.43
15,081	89.50	359.20	7,139	7,940.45	-319.49	7,941.25	1.65
15,176	89.40	0.10	7,139	8,035.44	-320.07	8,036.25	0.95
15,232	89.10	0.30	7,140	8,091.44	-319.88	8,092.24	0.64

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	08:00	2.00	P	CASPRD1	24	RUNCAS	RIG UP EXPRESS ENERGY CASING CREW AND TORQUE TURN. (SAFETY MEETING WITH RIG AND CASING PERSONNEL)
08:00	08:30	0.50	P	CASPRD1	12	RIGSVC	SERVICE RIG.
08:30	10:00	1.50	P	CASPRD1	24	RUNCAS	M.U. SHOE TRACK AND CHECK CIRCULATION.
10:00	23:30	13.50	P	CASPRD1	24	RUNCAS	RUN 379 JTS.(15,279') 5 1/2" 17.0# HCP-110 LTC CSG. TO 15,276'.. TOT LATCH COLLAR @ 15,198'-OREO VALVE @ 15,154'- MID LATERAL @ 11,269'- BOC @ 7,331'- FLOATATION COLLAR @ 7,167'- TOC @ 6,638'.
23:30	02:30	3.00	P	CASPRD1	15	CIRC	R.D. CSG. TOOLS. R.U. HALLIBURTON CMT. HEAD AND LINES. RUPTURE FLOATATION COLLAR W/ 1,950 PSI. CIRCULATE AIR FROM SYSTEM. PJSM. MIX SPACER.
02:30	06:00	3.50	P	CASPRD1	25	PRIMCEM	SWITCH LINE TO HALLIBURTON. TEST LINES TO 5,000 PSI. PUMPED 40 BBLs. TUNED SPACER III (10.0 PPG). MIXED AND PUMPED 665 SK. VERSACEM H -YLD. 2.57- 11.5 PPG- 304 BBLs. SLURRY. TAILED W/ 1,710 SKS. VERSACEM H -YLD. 1.27- 14.4 PPG- 387 BBLs. SLURRY. WASH PUMP AND LINES, DROP PLUG. DISPLACE PLUG W/ 353 BBLs. CLAY WEBB FLUID @ 2,000 PSI. FULL RETURNS DURING CEMENTS 5 BBLs. SPACER IN RETURNS.

Daily Operations Comments
 OBM RECOVERED = 20 BBLs. TOTAL OBM RECOVERED = 105 BBLs.
 NOTIFIED TRRC OF RUNNING AND CEMENTING 5 1/2" PROD. CSG.

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412/VH/OH

Report Number:

018

Country:

USA

Report Date:

12/05/2013

State/OCSG:

TEXAS

Spud Date:

11/22/2013

Field/Permit#:

WOLFCAMP EAST

Release Date:

DOL: 17

Supervisors:

JIMMY DAVIS / JOHNNY CHATAGNIER

Last BOP T.:

11/22/2013

Engineer/Manager:

BRENT BAKER / EVANS/ DODD

Safety & Environmental Incident:

No

AFE Days:

10

Depth md/tvd (ft):

15,279.03 / 7,140.95

Rig:

NORAM/21

Progress (ft):

0.00

Rig Phone:

713-997-1265

ROP:

0.0 / = 0.00

RKB (ft):

2,732.51

Proposed TD (ft):

15,279.00

Ground Level (ft):

2,703.0

Next Csg Point (ft):

15,279.03

POB:

45

Total Man Hours:

0.00

AFE #:

161396/50154

Day Cost(\$):

233,937

Cum Cost(\$):

1,717,534

AFE(\$):

1,989,127

Drig

Comp

Fac

Total

161396/50154

0

0

233,937

1,717,534

0

0

1,717,534

1,989,127

3,860,750

270,000

6,119,877

Current Activity:

RIG RELEASED. FINAL REPORT.

24 Hr Summary:

WASH THRU SURFACE EQUIPMENT. N.D. BOPE. LIFT STACK. SET CSG. SLIPS, CUT PIPE. N.U. CAP FLG. N.D. ROT. HEAD. SET STACK BACK.

24 Hr Forecast:

SKID OVER UNIVERSITY 44 12 WH.

MUD PROPERTIES

Fluids Co.:

HALLIBURTON

Fluids Eng:

ERNESTO CRUZ

Time:

18:00

Location:

PIT

Pit Temp:

Depth (ft):

15,279.03

Density (ppg):

9.30

FV (s/qt):

56

PV (cp):

15

YP (lb/100ft²):

17

Gels (l):

13/15/19

WL:

9.00

HTHP ("F):

250

Cake:

2.00

Solids (lbm/bbl):

8

ECD (ppg):

9.6

Oil Cnt (%):

65

H2O Cnt (%):

24

Sand Cnt:

MBT:

pH:

Pm:

Pf/Mf:

/

Chloride:

Calcium:

LCM:

ES (mV):

560.0

LGS (%):

5.10

Ex Lime (ppb):

538.0

OWR:

73.0 / 27.0

D M Cost(\$):

\$0.00

C M Cost(\$):

\$124,827.26

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

Bit #

Bit #

I

O

D

L

B

G

O

R

Size(in)

MD(ft)/TVD(ft)

FT/LOT(ppg)

9.63

903.00 /

903.00

5.50

15,279.03 /

7,141.01

5.50

15,279.03 /

7,141.01

INVENTORY

Item

Inv

DIESEL

10,592

OBM FUEL

10,410

SOLIDS CONTROL

Skr

Deck 1 Screens

Deck 2 Screens

1

50/50/50/50

2

50/50/50/50

3

50/50/50/50

MUD LOGGING

Trip Gas (units):

@

Conn Gas (units)

775 @ 811

Form:

BG Gas (units):

839

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):

SPP (psi):

AV (DC):

340

AV (DP):

247

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

14,606

89.70

358.30

7,127

7,465.79

-308.80

7,466.56

1.49

14,701

88.40

357.30

7,129

7,560.69

-312.45

7,561.48

1.73

14,796

88.70

0.10

7,131

7,655.62

-314.61

7,656.41

2.96

14,891

88.20

358.90

7,134

7,750.58

-315.43

7,751.37

1.37

14,986

88.10

358.50

7,137

7,845.50

-317.59

7,846.30

0.43

15,081

89.50

359.20

7,139

7,940.45

-319.49

7,941.25

1.65

15,176

89.40

0.10

7,139

8,035.44

-320.07

8,036.25

0.95

15,232

89.10

0.30

7,140

8,091.44

-319.88

8,092.24

0.64

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

12:00

6.00

P

CASPRD1

29

NDBOPE

WASH THRU SURFACE EQUIPMENT. N. D. BOPE. LIFT STACK, SET 5 1/2" CSG. SLIPS W/105,000#.

CUT CSG., REMOVE STUB. N.D. SPOOL AND DSA, SET STACK BACK. N.U. CAP FLG. AND

SECURE WELL. RELEASE RIG @ 12:00 HRS 12/4/2013.

12:00

14:00

2.00

P

RDMO

02

RDMO

PRERP RIG FOR SKID OVER UNIVERSITY 44 12 WH.

Daily Operations Comments

OBM RECOVERED = 20 BBLs. TOTAL OBM RECOVERED = 105 BBLs.

NOTIFIED "IVY" W/ TRRC OF RUNNING AMD CEMENTING 5 1/2" PROD. CSG.

NOTIFIED U.L. REP. OF SKIDDING TO UNIV. 4412WH.