

DAILY DRILLING REPORT



Fuel						
FUEL TYPE	VENDOR	BEG QTY	RECEIVED QTY	TOTAL QTY	QTY USED	QTY REMAINING
Diesel	Fuel Source	2,000	2,000	0	-	-

[illegible]

DAILY DRILLING REPORT

[illegible]

DAILY DRILLING REPORT

[illegible]

Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH		Report Number: 003 Report Date: 10/08/2013 Spud Date: Release Date: DFS: 1.00 DOL: 2 AFE Days: 10 Last BOP T.: Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS			

Depth md/tvd (ft): 935.00 / 935.00 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,155.00 Next Csg Point (ft): 15,114.03	Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 40 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 #: 160697/49997</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$): 25,875</td> <td>25,875</td> <td>0</td> <td>0</td> <td>25,875</td> </tr> <tr> <td>Cum Cost(\$) 364,459</td> <td>364,459</td> <td>0</td> <td>0</td> <td>364,459</td> </tr> <tr> <td>AFE(\$): 0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>		Drig	Comp	Fac	Total	AFE #: 160697/49997					Day Cost(\$): 25,875	25,875	0	0	25,875	Cum Cost(\$) 364,459	364,459	0	0	364,459	AFE(\$): 0	0	0	0	0
	Drig	Comp	Fac	Total																							
AFE #: 160697/49997																											
Day Cost(\$): 25,875	25,875	0	0	25,875																							
Cum Cost(\$) 364,459	364,459	0	0	364,459																							
AFE(\$): 0	0	0	0	0																							

Current Activity: RIGGING UP.
 24 Hr Summary: COMPLETE MOVE IN AND RIG UP. 30% RIGGED UP.
 24 Hr Forecast: RIG UP.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD			CASING											
Fluids Co.: Fluids Eng:		D M Cost(\$): \$0.00 C M Cost(\$): \$0.00		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														
Time: Oil Cnt: Location: H2O Cnt: Pit Temp: Sand Cnt: Depth: MBT: Density: pH: FV: Pm: PV: P#Mf: YP: Chloride: Gels: Calcium: WL: LCM: HTHP: ES (mV): Cake: LGS: Solids: Ex Lime (ppb): ECD: OWR:		Mud Additives Used								<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>40.00 /</td> <td>40.00</td> </tr> <tr> <td>9.63</td> <td>935.00 /</td> <td>935.00</td> </tr> <tr> <td>5.50</td> <td>15,114.03 /</td> <td>7,150.01</td> </tr> </table>			Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	13.38	40.00 /	40.00
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13.38	40.00 /	40.00																
9.63	935.00 /	935.00																
5.50	15,114.03 /	7,150.01																


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):	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)

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	06:00	24.00	P	MIRU	01	MIRU	MIRU. 100% MOVED IN. 30% RIGGED UP.

Daily Operations Comments

 Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS		Report Number: 004 Report Date: 10/09/2013 Spud Date: Release Date: DFS: 0.00 DOL: 3 AFE Days: 10 Last BOP T.: Safety & Environmental Incident: No																																																	
Depth md/tvd (ft): 935.00 / 935.00 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03		Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 35 Total Man Hours: 0.00		<table border="1"> <tr> <th></th> <th>Drig</th> <th>Comp</th> <th>Fac</th> <th>Total</th> </tr> <tr> <td>AFE #: 160697/49997</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$): 81,473</td> <td>0</td> <td>0</td> <td>0</td> <td>81,473</td> </tr> <tr> <td>Cum Cost(\$) 445,932</td> <td>0</td> <td>0</td> <td>0</td> <td>445,932</td> </tr> <tr> <td>AFE(\$): 0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>			Drig	Comp	Fac	Total	AFE #: 160697/49997					Day Cost(\$): 81,473	0	0	0	81,473	Cum Cost(\$) 445,932	0	0	0	445,932	AFE(\$): 0	0	0	0	0																							
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MUD PROPERTIES		MUD MATERIALS		BIT RECORD																																																	
Fluids Co.: Fluids Eng: Time: Location: Pit Temp: Depth: Density: FV: PV: YP: Gels: WL: HTHP: Cake: Solids: ECD:		D M Cost(\$): \$0.00 C M Cost(\$): \$0.00 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 mn/mx (kip) RPM rot/bit Bit HP HSI PSI Drop (psi) Jet Vel (ft/s) Imp Force																																																	
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200	0.22	151.75	200	-0.24	0.25	-0.24	0.16																																														
300	0.12	109.35	300	-0.44	0.44	-0.44	0.15																																														
400	0.38	126.21	400	-0.67	0.81	-0.67	0.27																																														
500	0.14	281.06	500	-0.84	0.96	-0.84	0.51																																														
600	0.21	167.99	600	-1.00	0.87	-1.00	0.29																																														
700	0.14	130.93	700	-1.26	1.00	-1.26	0.13																																														
800	0.10	345.03	800	-1.25	1.07	-1.25	0.23																																														
850	0.44	59.09	850	-1.11	1.23	-1.11	0.85																																														
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FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																																														
06:00	06:00	24.00	P	MIRU	01	MIRU	RIG UP 50% RIGGED UP.																																														
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Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH		Report Number: 006 Report Date: 10/11/2013 Spud Date: Release Date: DFS: 0.00 DOL: 5 AFE Days: 10 Last BOP T.: 10/11/2013 Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS			

Depth md/tvd (ft): 935.00 / 935.00 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03	Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 28 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 #: 160697/49997</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$): 35,809</td> <td></td> <td>0</td> <td>0</td> <td>35,809</td> </tr> <tr> <td>Cum Cost(\$) 545,284</td> <td></td> <td>0</td> <td>0</td> <td>545,284</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 #: 160697/49997					Day Cost(\$): 35,809		0	0	35,809	Cum Cost(\$) 545,284		0	0	545,284	AFE(\$): 0		0	0	0
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Cum Cost(\$) 545,284		0	0	545,284																							
AFE(\$): 0		0	0	0																							

Current Activity: TEST BOP
24 Hr Summary: RIG UP. PERFORM RIG INSPECTION. NU / TEST BOP.
24 Hr Forecast: TEST CASING. PU BHA. DRILL SIDEBUILD.

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																				
Fluids Co.: Fluids Eng: Time: Location: Pit Temp: Depth: Density: FV: PV: YP: Gels: WL: HTHP: Cake: Solids: ECD:		D M Cost(\$): \$900.00 C M Cost(\$): \$4,500.00 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #d3d3d3;">Mud Additives</th> <th>Used</th> </tr> <tr> <td>ENGINEERING</td> <td></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 mn/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>40.00 /</td> <td>40.00</td> </tr> <tr> <td>9.63</td> <td>935.00 /</td> <td>935.00</td> </tr> <tr> <td>5.50</td> <td>15,114.03 /</td> <td>7,150.01</td> </tr> </table>			Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	13.38	40.00 /	40.00	9.63	935.00 /	935.00	5.50	15,114.03 /	7,150.01
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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):		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)
200	0.22	151.75	200	-0.24	0.25	-0.24	0.16
300	0.12	109.35	300	-0.44	0.44	-0.44	0.15
400	0.38	126.21	400	-0.67	0.81	-0.67	0.27
500	0.14	281.06	500	-0.84	0.96	-0.84	0.51
600	0.21	167.99	600	-1.00	0.87	-1.00	0.29
700	0.14	130.93	700	-1.26	1.00	-1.26	0.13
800	0.10	345.03	800	-1.25	1.07	-1.25	0.23
850	0.44	59.09	850	-1.11	1.23	-1.11	0.85

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	13:00	7.00	P	MIRU	01	MIRU	COMPLETE RIG UP. PERFORM RIG INSPECTION. RIG ON DAYRATE @ 13:00 HRS ON 10/10/13.
13:00	23:00	10.00	P	CASSURF	28	NUBOPE	NU & SECURE BOP. INSTALL AND FABRICATE ROTATING HEAD.
23:00	00:30	1.50	P	CASSURF	23	RAMBLCK	REMOVE 5 1/2" CASING RAMS & INSTALL 5" DRILL PIPE RAMS.
00:30	06:00	5.50	P	CASSURF	30	TSTWCEQ	TEST BOP TO 5,000 PSI HIGH / 250 PSI LOW. TEST ANNULAR TO 3,500 PSI HIGH / 250 PSI LOW.
Daily Operations Comments							

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412JH/OH

Report Number:

007

Country:

USA

State/OCSS:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

CRAIG CART / JOHNNY CHATAGNIER

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

10/12/2013

Spud Date:

Release Date:

DFS: 1.00

DOL: 6

AFE Days: 10

Last BOP T.:

10/11/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

3,699.01 / 3,676.69

Progress (ft):

2,764.01

ROP:

2,764.0 / 16.00 = 172.75

Proposed TD (ft):

15,114.00

Next Csg Point (ft):

15,114.03

Rig:

NORAM21

Rig Phone:

713-997-1265

RKB (ft):

2,745.51

Ground Level (ft):

2,716.0

POB:

30

Total Man Hours:

0.00

AFE #:

160697/49997

Day Cost(\$):

64,769

Cum Cost(\$):

610,603

AFE(\$):

0

Drig

Comp

Fac

Total

Current Activity:

DRILLING SIDEBUILD @ 3,699'. PTB - INC 4.0° AZ 265° 4' - BELOW 3' - RIGHT

24 Hr Summary:

TEST CASING. PU BHA. SPUD WELL AT 12:30 10/11/2013. DRILL SIDEBUILD.

24 Hr Forecast:

DRILL SIDEBUILD. TRIP FOR CURVE ASSEMBLY. BULD CURVE.

MUD PROPERTIES

Fluids Co.:

BAROID

Fluids Eng:

JACOB BOST

Time:

20:00

Location:

JCTION TANK

Pit Temp (°F):

98

Depth (ft):

1,994.00

Density (ppg):

8.90

FV (s/qt):

51

PV (cp):

16

YP (lb/100ft²):

15

Gels (l):

8/10/12

WL:

10.00

HTHP (°F):

250

Cake:

2.00

Solids:

ECD (ppg):

9.3

MUD MATERIALS

D M Cost(\$):

\$900.00

C M Cost(\$):

\$5,400.00

Mud Additives

Used

ENGINEERING

1

BIT RECORD

Bit#

1

S/N

7147030

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

Depth In (ft)

935

Depth Out (ft)

Bit Rotations

60/60

On Btm Hrs Cum

16.00

Footage Cum (ft)

2,764

ROP Cum

172.8

WOB mm/mx (kip)

/

RPM rot/bit

60 / 60

Bit HP

1.72

HSI

1.91

PSI Drop (psi)

338.92

Jet Vel (ft/s)

206.31

Imp Force

551.74

Grading

I O D L B G O R

Bit #

Bit #

1

CASING

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

13.38

40.00 /

40.00

9.63

935.00 /

935.00

5.50

15,114.03 /

7,150.01

INVENTORY

Item

Inv

DIESEL

11,451

MUD DIESEL

6,564

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 5.0 8 1/2" STAB

6.750

26.39

27.39

1

UBHO

2.937

6.500

3.72

31.11

1

MWD COLLAR

3.250

6.812

31.01

62.12

1

NMDC

2.875

6.500

30.52

92.64

1

CROSSOVER

2.875

6.375

2.13

94.77

3

6 1/2" DRILL COLLARS

2.875

6.500

91.88

186.65

1

CROSSOVER

2.875

6.500

1.81

188.46

Total Length:

188.46

STRING LOADS

On Btm Torque:

10,500

Off Btm Torque:

2,500

Str. Wt. Up:

120

Str. Wt. Down:

100

Str. Wt. Rot.:

110

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:

68.00

68.00

GPM:

284.65

284.65

SPR:

1 SPM:

40.00

50.00

Pressure:

315.00

415.00

2 SPM:

30.00

30.00

Pressure:

240.00

250.00

T GPM (gpm):

585

SPP (psi): 2,500

AV (DC):

392

AV (DP): 285

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

2,991

8.10

276.20

2,974

2.32

-235.17

2.32

0.89

3,086

7.80

270.20

3,068

3.07

-248.27

3.07

0.93

3,181

7.50

271.10

3,163

3.21

-260.91

3.21

0.34

3,276

7.40

267.40

3,257

3.05

-273.22

3.05

0.52

3,371

6.90

273.30

3,351

3.10

-285.03

3.10

0.93

3,466

8.30

269.20

3,445

3.33

-297.58

3.33

1.58

3,561

6.60

264.70

3,539

2.73

-309.88

2.73

1.89

3,656

4.90

265.30

3,634

1.90

-319.36

1.90

1.79

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:00

1.00

P

CASSURF

31

TESTCAS

RU & TEST CASING TO 1,500 PSI.

07:00

08:00

1.00

P

CASSURF

42

OTHER

CLEAN RIG FLOOR

08:00

11:30

3.50

P

CASSURF

13

TRIP

PU SIDEBUILD ASSEMBLY. TIH TO 867'.

11:30

12:00

0.50

P

CASSURF

15

CIRC

CIRCULATE FRESHWATER TO OPEN TOP.

12:00

12:30

0.50

P

CASSURF

32

DRLFLOAT

DRILL CEMENT & SHOE TRACK. SHOE @ 935'.

12:30

16:00

3.50

P

DRLPRD

08

DRLDIR

DIRECTIONAL DRILL SIDEBUILD FROM 935' TO 1,611'. SPUD WELL @ 12:30 10/11/2013

16:00

16:30

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

16:30

17:00

0.50

P

DRLPRD

08

DRLDIR

DIRECTIONAL DRILL SIDEBUILD FROM 1,611' TO 1,677'.

17:00

18:00

1.00

P

DRLPRD

42

OTHER

REDUCE PUMPS & CLEAN / REPLACE BLINDED SHAKER SCREENS.

18:00

06:00

12.00

P

DRLPRD

08

DRLDIR

DIRECTIONAL DRILL SIDEBUILD FROM 1,677' TO 3,699'.

Daily Operations Comments

WPS: 284,455. DRILLING OFF OF DIRECTIONAL PLAN # 1

NOV 1.5" FBH 7/8 5.0 8 1/2" STAB BTS - 43' BTG - 32' BTB - 5.04' RPG - 0.29

Printed: 10/12/2013 8:15:11AM

1

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412JH/OH

Report Number:

008

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

CRAIG CART / JOHNNY CHATAGNIER

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

10/13/2013

Spud Date:

Release Date:

DOL: 7

AFE Days: 10

Last BOP T.:

10/11/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

6,670.01 / 6,647.13

Progress (ft):

2,971.01

ROP:

2,971.0 / 20.00 = 148.55

Proposed TD (ft):

15,114.00

Next Csg Point (ft):

15,114.03

Rig:

NORAM21

Rig Phone:

713-997-1265

RKB (ft):

2,745.51

Ground Level (ft):

2,716.0

POB:

26

Total Man Hours:

0.00

AFE #:

16069749997

Day Cost(\$):

100.205

Cum Cost(\$):

710.308

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

40.00 / 40.00

9.63

935.00 / 935.00

5.50

15,114.03 / 7,150.01

Current Activity:

POOH WITH SIDEBUILD ASSEMBLY. PTB INC - 0° AZ - 294° 1' - ABOVE 2' - RIGHT.

24 Hr Summary:

DRILL SIDEBUILD FROM 3,699' TO 6,670'. CIRCULATE HOLE CLEAN. TRIP FOR CURVE ASSEMBLY.

24 Hr Forecast:

TRIP FOR CURVE ASSEMBLY. BUILD CURVE.

MUD PROPERTIES

Fluids Co.:

BAROID

Fluids Eng:

JACOB BOST

Time:

19:00

Location:

JCTION TANK

Pit Temp (°F):

103

Depth (ft):

5,871.01

Density (ppg):

8.90

FV (s/qt):

49

PV (cp):

13

YP (lb/100ft²):

14

Gels (l):

8/10/12

WL:

10.00

HTHP (°F):

250

Cake:

2.00

Solids:

ECD (ppg):

9.3

MUD MATERIALS

D M Cost(\$):

\$18,570.50

C M Cost(\$):

\$23,970.50

Mud Additives

Used

DRILL TREAT

15

BAROID RIG WASH

1

LIME

30

INVERMUL

3

OIL ABSORBENT CLAY

37

GELTONE V

37

ENGINEERING

7

EZ MUL

20

DURATONE HT

56

CALCIUM CHLORIDE PO

20

CEDAR FIBER

11

WALNUT MEDIUM

BIT RECORD

Bit#

1

S/N

7147030

Size (in)

8.75

Mfg

HUGHES

IADC Type

Model #

T606X

Jets

6X14

Depth In (ft)

935

Depth Out (ft)

Bit Rotations

60/60

On Btm Hrs Cum

36.00

Footage Cum (ft)

5,735

ROP Cum

159.3

WOB mm/mx (kip)

20 / 30

RPM rot/bit

60 / 60

Bit HP

1.72

HSI

1.91

PSI Drop (psi)

338.92

Jet Vel (ft/s)

206.31

Imp Force

551.74

CASING

Size(in)

MD(ft)/TVD(ft)

Fit LOT(ppg)

13.38

40.00 / 40.00

9.63

935.00 / 935.00

5.50

15,114.03 / 7,150.01

INVENTORY

Item

Inv

DIESEL

12,708

MUD DIESEL

7,284

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 5.0 8 1/2" STAB

6.750

26.39

27.39

1

UBHO

2.937

6.500

3.72

31.11

1

MWD COLLAR

3.250

6.812

31.01

62.12

1

NMDC

2.875

6.500

30.52

92.64

1

CROSSOVER

2.875

6.375

2.13

94.77

3

6 1/2" DRILL COLLARS

2.875

6.500

91.88

186.65

1

CROSSOVER

2.875

6.500

1.81

188.46

Total Length:

188.46

STRING LOADS

On Btm Torque:

11,500

Off Btm Torque:

2,500

Str. Wt. Up:

190

Str. Wt. Down:

170

Str. Wt. Rot.:

170

Max Over Pull:

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):

585

SPP (psi):

2,500

AV (DC):

392

AV (DP):

285

SURVEYS

MD (ft)

Inclination (°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

6,028

0.40

138.00

6,005

2.48

-334.26

2.48

0.41

6,123

0.30

147.70

6,100

2.03

-333.91

2.03

0.12

6,218

0.30

132.30

6,195

1.65

-333.59

1.65

0.08

6,313

0.20

89.40

6,290

1.48

-333.24

1.48

0.22

6,408

0.40

171.90

6,385

1.16

-333.03

1.16

0.45

6,503

0.20

164.90

6,480

0.67

-332.94

0.67

0.21

6,598

0.10

191.40

6,575

0.43

-332.91

0.43

0.13

6,627

0.10

294.00

6,604

0.41

-332.94

0.41

0.54

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

15:00

9.00

P

DRLPRD

08

DRLDIR

DIRECTIONAL DRILL SIDEBUILD FROM 3,699' TO 5,312'.

15:00

15:30

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

15:30

02:30

11.00

P

DRLPRD

08

DRLDIR

DIRECTIONAL DRILL SIDEBUILD FROM 5,312' TO 6,670'.

02:30

03:30

1.00

P

DRLPRD

15

CIRC

CIRCULATE HOLE CLEAN.

03:30

06:00

2.50

P

DRLPRD

13


TRIP

POOH FOR CURVE ASSEMBLY.


Daily Operations Comments

WPS: 289,971. DRILLING OFF OF DIRECTIONAL PLAN # 1

NOV 1.5" FBH 7/8 5.0 8 1/2" STAB BTS - 43' BTG - 32' BTB - 5.04' RPG - 0.29

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 009 Report Date: 10/14/2013 Spud Date: Release Date: DFS: 3.00 DOL: 8 AFE Days: 10 Last BOP T.: 10/11/2013 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 7,179.01 / 7,089.37 Progress (ft): 509.00 ROP: 509.0 / 16.50 = 30.85 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 24 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>160697/49997</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>56,095</td> <td>0</td> <td>0</td> <td>56,095</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>766,403</td> <td>0</td> <td>0</td> <td>766,403</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 #:	160697/49997				Day Cost(\$):	56,095	0	0	56,095	Cum Cost(\$)	766,403	0	0	766,403	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
AFE #:	160697/49997																																			
Day Cost(\$):	56,095	0	0	56,095																																
Cum Cost(\$)	766,403	0	0	766,403																																
AFE(\$):	0	0	0	0																																
Current Activity: BUILDING CURVE @ 7,179'. PTB INC - 59.1° AZ - 0.3° ON LINE 6.1' RIGHT 24 Hr Summary: TRIP FOR CURVE ASSEMBLY. TIH WITH CURVE ASSEMBLY. BUILD CURVE. 24 Hr Forecast: BUILD CURVE. C & C HOLE. POOH FOR LATERAL ASSEMBLY. TIH. DRILL LATERAL.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: BAROID Fluids Eng: JACOB BOST Time: 19:00 Oil Cnt (%): 67 Location: JCTION TANK H2O Cnt (%): 24 Pit Temp (°F): 114 Sand Cnt: Depth (ft): 6,861.01 MBT: Density (ppg): 8.90 pH: FV (s/qt): 42 Pm: PV (cp): 13 P#Mf: YP (lb/100ft²): 14 Chloride: Gels (l): 8/9/12 Calcium: WL: 10.00 LCM: HTHP (°F): 250 ES (mV): 500.0 Cake: 2.00 LGS (%): 5.60 Solids: Ex Lime (ppb): 5.2 ECD (ppg): 9.3 OWR: 73.6 / 26.4		D M Cost(\$): \$4,627.26 C M Cost(\$): \$28,597.76 Mud Additives LIME 20 DURATONE HT 12 CALCIUM CHLORIDE PO 56 ENGINEERING 1 BARITE 41 29 BAROID 32 DRILL TREAT 5 OIL ABSORBENT CLAY 5		Bit# 2 S/N PY1413 Size (in) 8.75 Mfg SMITH IADC Type Model # FH121 Jets 6X14 3X22 Depth In (ft) 6,670 Depth Out (ft) 20/20 Bit Rotations 16.50 On Btm Hrs Cum 509 Footage Cum (ft) 30.8 ROP Cum 35 / 35 WOB mm/mx (kip) / RPM rot/bit 20 / 20 Bit HP 1.25 HSI 1.13 PSI Drop (psi) 207.25 Jet Vel (ft/s) 161.33 Imp Force 416.57		Size(in) MD(ft)/TVD(ft) FIT LOT(ppg) 13.38 40.00 / 40.00 9.63 935.00 / 935.00 5.50 15,114.03 / 7,150.01																														
MUD LOGGING				INVENTORY																																
Trip Gas (units): @ BG Gas (units): Conn Gas (units): @ Form: Pore Pressure: (%) Lag Time: (min)				Item Inv DIESEL 11,121 MUD DIESEL 2,094																																
BHA # 2				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 4,000	#1																													
1	SMITH FH121		8.750	1.00	1.00	Off Btm Torque: 1,000	#2																													
1	NOV 2.12" 4/5 7.0 SLICK PDM		6.750	26.04	27.04	Str. Wt. Up: 185	#3																													
1	UBHO	2.875	6.750	3.72	30.76	Str. Wt. Down: 170																														
1	MWD	3.250	6.875	31.01	61.77	Str. Wt. Rot.: 180																														
1	NM FLEX DC	2.937	6.500	31.12	92.89	Max Over Pull:																														
Total Length: 92.89																																				
BHA PROPERTIES																																				
BHA Hrs: 17																																				
Jar Hrs:																																				
Cum String Hours: 17																																				
Weight B Jars (kip):																																				
						T GPM (gpm): 560	SPP (psi): 2,100																													
						AV (DC): 392	AV (DP): 285																													
SURVEYS																																				
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																													
6,882	22.10	2.20	6,854	40.53	-330.74	40.53	10.35																													
6,914	25.90	1.20	6,883	53.54	-330.36	53.54	11.94																													
6,946	28.80	0.90	6,912	68.23	-330.10	68.23	9.07																													
6,977	31.60	0.30	6,938	83.82	-329.94	83.82	9.08																													
7,009	34.30	0.60	6,965	101.23	-329.80	101.23	8.45																													
7,041	38.20	1.40	6,991	120.14	-329.46	120.14	12.28																													
7,072	42.00	0.60	7,015	140.10	-329.12	140.10	12.37																													
7,104	46.50	0.20	7,038	162.43	-328.97	162.43	14.09																													
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	07:30	1.50	P	DRLPRD	13	TRIP	POOH. LD BHA.																													
07:30	13:00	5.50	P	DRLPRD	13	TRIP	PU CURVE ASSEMBLY. TIH.																													
13:00	13:30	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																													
13:30	06:00	16.50	P	DRLPRD	09	DRLCRV	BUILD CURVE FROM 6,670' TO 7,179'.																													
Daily Operations Comments WPS: 292.272. DRILLING OFF OF DIRECTIONAL PLAN # 1 NOV 2.12" FBH 4/5 7.0 BTS - 43' BTG - 32' BTB - 3.37' RPG - 0.52																																				

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH				Report Number: 010							
				Country: USA				Report Date: 10/15/2013							
				State/OCSG: TEXAS				Spud Date: 10/11/2013							
				Field/Permit#: WOLFCAMP EAST				Release Date:							
				Supervisors: CRAIG CART / JOHNNY CHATAGNIER				DFS: 4.00 DOL: 9 AFE Days: 10							
				Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Last BOP T.: 10/11/2013							
								Safety & Environmental Incident: No							
Depth md/tvd (ft): 8,190.02 / 7,145.39				Rig: NORAM/21											
Progress (ft): 1,011.00				Rig Phone: 713-997-1265											
ROP: 1,011.0 / 12.50 = 80.88				RKB (ft): 2,745.51											
Proposed TD (ft): 15,114.00				Ground Level (ft): 2,716.0											
Next Csg Point (ft): 15,114.03				POB: 36 Total Man Hours: 0.00											
Current Activity: DRILLING LATERAL @ 8,190'.. PTB: 90.20° AZM: .20° TVD: 7,146'- 4.5' BELOW-12.7' LEFT. TOTAL LATERAL: 806'.															
24 Hr Summary: BUILD CURVE FROM 7,179' TO 7,415'. CIRCULATE HOLE CLEAN. POOH FOR LATERAL ASSEMBLY. TIH. DRILL LATERAL FROM 7,415' TO 8,90'.															
24 Hr Forecast: DRILL LATERAL															
MUD PROPERTIES				MUD MATERIALS				BIT RECORD							
Fluids Co.: BAROID				D M Cost(\$): \$19,880.34				Bit# 2 3							
Fluids Eng: SCOTT DEHART				C M Cost(\$): \$48,478.10				S/N PY1413 7145801							
Time: 18:00 Oil Cnt (%) 67				Mud Additives Used				Size (in) 8.75 8.75							
Location: JCTION TANK H2O Cnt (%) 25				GELTONE V 12				Mfg SMITH BAKER HUGHES							
Pit Temp: Sand Cnt:				ENGINEERING 1				IADC Type							
Depth (ft): 7,415.01 MBT:				FORKLIFT 16				Model # FH121 T606X							
Density (ppg): 8.90 pH:				DURATONE HT 18											
FV (s/qt): 42 Pm:				CALCIUM CHLORIDE PO 24				Jets 3X22 6X14							
PV (cp): 13 P#Mf:				SHRINK WRAP 51				Depth In (ft) 6,670 7,415							
YP (lb/100ft²): 15 Chloride:				EZ MUL 1				Depth Out (ft) 7,415							
Gels (l): 8/11/15 Calcium:				PALLETES 91				Bit Rotations 20/20 50/60							
WL: 9.00 LCM:				BARITE 41 80				On Btm Hrs Cum 5.50 7.00							
HTHP (°F): 250 ES (mV): 499.0				DRILL TREAT 6				Footage Cum (ft) 236 775							
Cake: 2.00 LGS (%): 3.30				INVERMUL 25				ROP Cum 33.9 110.7							
Solids (lbm/bbl): 5 Ex Lime (ppb): 3.9				FUEL SURCHARGE 1				WOB mm/mx (kip) 35 / 40 25 / 30							
ECD (ppg): 9.3 OWR: 72.8 / 27.2				LIME 50				RPM rot/bit 20 / 20 50 / 60							
								Bit HP 1.25 1.68							
								HSI 1.13 1.86							
								PSI Drop (psi) 207.25 333.11							
								Jet Vel (ft/s) 161.33 204.53							
								Imp Force 416.57 542.26							
MUD LOGGING															
Trip Gas (units): 227 @				BG Gas (units): 291				Surf to Surf:							
Conn Gas (units): 453 @				Pore Pressure: (%)				Lag Strokes: (min)							
Form:				Lag Time: (min)				Grading I O D L B G O R							
								Bit # 2 1 1 NO A E I NOBHA							
								Bit # 3							
BHA # 3						STRING LOADS									
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 4,000								
1	HUGHES T606X 6(14)			8.750	1.00	1.00	Off Btm Torque: 1,000								
1	1.83° FBH 7/8 6.4 SLICK			6.750	30.92	31.92	Str. Wt. Up: 190								
1	UBHO		2.937	6.500	3.72	35.64	Str. Wt. Down: 180								
1	MWD		3.250	6.812	31.01	66.65	Str. Wt. Rot.: 160								
1	NMDC		2.875	6.500	30.52	97.17	Max Over Pull:								
75	5" DP		4.276	5.000		0.00									
1	AGITATOR		2.500	6.687	12.99	110.16									
1	SHOCK SUB		2.000	6.625	10.20	120.36									
	5" DRILL PIPE		4.276	5.000	7,058.65	7,179.01									
						Total Length: 7,179.01									
BHA PROPERTIES						MUD PUMPS									
BHA Hrs: 6						#1 #2 #3									
Jar Hrs:						Pump Type: DR DR									
Cum String Hours: 22						Liner ID: 6.00 6.00									
Weight B Jars (kip):						SPM: 68.00 68.00									
						GPM: 284.65 284.65									
						SPR: 1 SPM: 60.00 60.00									
						Pressure: 700.00 710.00									
						2 SPM: 80.00 80.00									
						Pressure: 1,100.00 1,120.00									
						T GPM (gpm): 560 SPP (psi): 3,800									
						AV (DC): 377 AV (DP): 274									
SURVEYS															
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)	
7,381		84.70		0.10		7,150		410.73		-327.92		410.73		18.27	
7,476		92.10		359.90		7,152		505.62		-327.92		505.62		7.79	
7,572		90.80		359.90		7,150		601.59		-328.08		601.59		1.35	
7,667		88.90		355.90		7,150		696.50		-331.56		696.50		4.66	
7,762		92.60		359.10		7,149		791.37		-335.71		791.37		5.15	
7,857		88.70		356.20		7,148		886.26		-339.60		886.26		5.12	
7,952		90.60		357.60		7,149		981.11		-344.74		981.11		2.48	
8,047		90.80		0.40		7,147		1,076.08		-346.40		1,076.08		2.95	
OPERATION DETAILS															
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION								
06:00	11:30	5.50	P	DRLPRD	09	DRLCRV	BUILD CURVE FROM 7,179' TO 7,415'.								
11:30	12:30	1.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN.								
12:30	16:30	4.00	P	DRLPRD	13	TRIP	POOH WITH CURVE ASSEMBLY.								
16:30	17:00	0.50	P	DRLPRD	11	WIRESUR	RIG SERVICE.								
17:00	22:30	5.50	P	DRLPRD	13	TRIP	P.U. BIT #3 AND LATERAL ASSEMBLY. P.U.AGITATOR AND SH. SUB 25 STDS. ABOVE BHA. TIH.								
22:30	00:00	1.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 7,415' TO 7,512'.								
00:00	00:30	0.50	N	DRLPRD	45	RRCIRC	CHANGE GASKET IN MUD LINE.								
00:30	06:00	5.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 7,512' TO 8,190'.								
Daily Operations Comments															
DRILLING OFF OF DIRECTIONAL PLAN # 1															
NOV 1.83 FBH 7/8 6.4 BTS - 47' BTG - 36' BTB - 5.1' RPG - 0.31															
WPS: 285,445--MUD LOSS: 82 BBLS															

 Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: CRAIG CART / JOHNNY CHATAGNIER Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Report Number: 011 Report Date: 10/16/2013 Spud Date: 10/11/2013 Release Date: DFS: 5.00 DOL: 10 AFE Days: 10 Last BOP T.: 10/11/2013 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 11,709.02 / 7,096.26 Progress (ft): 3,519.01 ROP: 3,519.0 / 23.50 = 149.74 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 25 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>160697/49997</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>72,660</td> <td>0</td> <td>0</td> <td>72,660</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>930,192</td> <td>0</td> <td>0</td> <td>930,192</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 #:	160697/49997				Day Cost(\$):	72,660	0	0	72,660	Cum Cost(\$)	930,192	0	0	930,192	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
AFE #:	160697/49997																																			
Day Cost(\$):	72,660	0	0	72,660																																
Cum Cost(\$)	930,192	0	0	930,192																																
AFE(\$):	0	0	0	0																																
Current Activity: DRILLING LATERAL @11,709' PTB: 86.80° AZM:357.80° TVD: 7,141' - 1.8' BELOW - 6.5' LEFT- TOTAL LATERAL: 4,325'. 24 Hr Summary: DRILL LATERAL FROM 8,190' TO 11,709'. 24 Hr Forecast: DRILL LATERAL																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: BAROID Fluids Eng: SCOTT DEHART Time: 18:00 Oil Cnt (%): 65 Location: JCTION TANK H2O Cnt (%): 25 Pit Temp (°F): 130 Sand Cnt: Depth (ft): 10,400.02 MBT: Density (ppg): 9.00 pH: FV (s/qt): 49 Pm: PV (cp): 16 P/Mf: YP (lb/100ft²): 15 Chloride: Gels (l): 9/14/20 Calcium: WL: 10.00 LCM: HTHP (°F): 250 ES (mV): 478.0 Cake: 2.00 LGS (%): 6.70 Solids (lbm/bbl): 7 Ex Lime (ppb): 4.4 ECD (ppg): 9.4 OWR: 72.2 / 27.8		D M Cost(\$): \$5,358.89 C M Cost(\$): \$53,836.99 Mud Additives DRILL TREAT 8 LIME 80 BAROID RIG WASH 1 BARITE 41 51 INVERMUL 2 CALCIUM CHLORIDE PO 32 ENGINEERING 1		Bit# 3 S/N 7145801 Size (in) 8.75 Mfg BAKER HUGHES IADC Type Model # T606X Jets 6X14 Depth In (ft) 7,415 Depth Out (ft) Bit Rotations 50/60 On Btm Hrs Cum 30.50 Footage Cum (ft) 4,294 ROP Cum 140.8 WOB mm/mx (kip) / RPM rot/bit 50 / 60 Bit HP 1.01 HSI 1.12 PSI Drop (psi) 236.99 Jet Vel (ft/s) 172.52 Imp Force 385.80		<table border="1"> <thead> <tr> <th>Size(in)</th> <th>MD(ft)/TVD(ft)</th> <th>Fit/LOT(ppg)</th> </tr> </thead> <tbody> <tr> <td>13.38</td> <td>40.00 /</td> <td>40.00</td> </tr> <tr> <td>9.63</td> <td>935.00 /</td> <td>935.00</td> </tr> <tr> <td>5.50</td> <td>15,114.03 /</td> <td>7,150.01</td> </tr> </tbody> </table>		Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)	13.38	40.00 /	40.00	9.63	935.00 /	935.00	5.50	15,114.03 /	7,150.01																	
Size(in)	MD(ft)/TVD(ft)	Fit/LOT(ppg)																																		
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9.63	935.00 /	935.00																																		
5.50	15,114.03 /	7,150.01																																		
MUD LOGGING		Trip Gas (units): @ BG Gas (units): 697 Conn Gas (units) 924 @ Form: Pore Pressure: (%) Surf to Surf: Lag Strokes: Lag Time: (min)		INVENTORY		SOLIDS CONTROL																														
				<table border="1"> <thead> <tr> <th>Item</th> <th>Inv</th> </tr> </thead> <tbody> <tr> <td>DIESEL</td> <td>7,165</td> </tr> <tr> <td>MUD DIESEL</td> <td>6,853</td> </tr> </tbody> </table>		Item	Inv	DIESEL	7,165	MUD DIESEL	6,853	<table border="1"> <thead> <tr> <th>Skr</th> <th>Deck 1 Screens</th> <th>Deck 2 Screens</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50/50/50/50</td> <td></td> </tr> <tr> <td>2</td> <td>50/50/50/50</td> <td></td> </tr> <tr> <td>3</td> <td>50/50/50/50</td> <td></td> </tr> </tbody> </table>		Skr	Deck 1 Screens	Deck 2 Screens	1	50/50/50/50		2	50/50/50/50		3	50/50/50/50												
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2	50/50/50/50																																			
3	50/50/50/50																																			
BHA # 3				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 14,000	#1	#2	#3																											
1	HUGHES T606X 6(14)		8.750	1.00	1.00	Off Btm Torque: 5,000	Pump Type: DR	DR																												
1	1.83" FBH 7/8 6.4 SLICK		6.750	30.92	31.92	Str. Wt. Up: 240	Liner ID: 6.00	6.00																												
1	UBHO	2.937	6.500	3.72	35.64	Str. Wt. Down: 120	SPM: 58.00	58.00																												
1	MWD	3.250	6.812	31.01	66.65	Str. Wt. Rot.: 170	GPM: 242.79	242.79																												
1	NMDC	2.875	6.500	30.52	97.17	Max Over Pull:	SPR: 1 SPM: 60.00	60.00																												
75	5" DP	4.276	5.000		0.00		Pressure: 980.00	990.00																												
1	AGITATOR	2.500	6.687	12.99	110.16		2 SPM: 80.00	80.00																												
1	SHOCK SUB	2.000	6.625	10.20	120.36		Pressure: 1,155.00	1,465.00																												
1	5" DRILL PIPE	4.276	5.000	11,709.02	11,709.02																															
Total Length: 11,709.02						BHA PROPERTIES																														
						BHA Hrs: 24																														
						Jar Hrs:																														
						Cum String Hours: 31																														
						Weight B Jars (kip):																														
T GPM (gpm): 485 SPP (psi): 3,800 AV (DC): 377 AV (DP): 274																																				
SURVEYS																																				
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)																													
7,381	84.70	0.10	7,150	410.73	-327.92	410.73	18.27																													
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8,047	90.80	0.40	7,147	1,076.08	-346.40	1,076.08	2.95																													
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	15:00	9.00	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 8,190' TO 9,997'.																													
15:00	15:30	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE.																													
15:30	06:00	14.50	P	DRLPRD	10	DRLLAT	DRILL LATERAL FROM 9,997' TO 11,709'.																													
Daily Operations Comments																																				
DRILLING OFF OF DIRECTIONAL PLAN # 1																																				
NOV 1.83 FBH 7/8 6.4 BTS - 47' BTG - 36' BTB - 5.1' RPG - 0.31																																				
MUD LOSS: 255 BBLS.																																				
WPS: 285,445-MUD LOSS: 82 BBLS																																				

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412JH/OH

Report Number:

013

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / KENNETH SWILLEY

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

10/18/2013

Spud Date:

10/11/2013

Release Date:

DOL: 12

DOL: 12

AFE Days: 10

Last BOP T.:

10/11/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

12,675.03 / 7,137.16

Progress (ft):

205.00

ROP:

205.0 / = 0.00

Proposed TD (ft):

15,114.00

Next Csg Point (ft):

15,114.03

Rig:

NORAM21

Rig Phone:

713-997-1265

RKB (ft):

2,745.51

Ground Level (ft):

2,716.0

POB:

24

Total Man Hours:

0.00

AFE #:

160697/49997

Day Cost(\$):

52,650

Cum Cost(\$):

1,067,777

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

40.00 /

40.00

9.63

935.00 /

935.00

5.50

15,114.03 /

7,150.01

52,650

0

0

52,650

1,067,777

0

0

1,067,777

0

0

0

0

Current Activity:

DRILLING LATERAL @12,675' PTB: 89.8° AZM: .3° TVD: 7,142' - 2.5' ABOVE - 6.5' RIGHT- TOTAL LATERAL: 5,291'.

24 Hr Summary:

TRIP OUT DUE TO LOW PENETRATION RATE, TRIP IN DRILL LATERAL TO 12,675'.

24 Hr Forecast:

DRILL LATERAL.

MUD PROPERTIES

Fluids Co.: BAROID

Fluids Eng: SCOTT DEHART

Time: 18:00

Oil Cnt (%): 73

Location: JCTION TANK

H2O Cnt (%): 28

Pit Temp (°F): 139

Sand Cnt: MBT:

Depth (ft): 12,080.02

Density (ppg): 9.00

pH: 50

Pm: 16

Pf/Mf: 15

Chloride: 9/15/19

Calcium: 10.00

LCM: 250

ES (mV): 479.0

HTHP (°F): 2.00

LGS (%): 6.70

Solids (lbm/bbl): 7

Ex Lime (ppb): 4.0

ECD (ppg): 9.4

OWR: 72.2 / 27.8

MUD MATERIALS

D M Cost(\$): \$10,874.73

C M Cost(\$): \$76,438.46

Mud Additives

Used

14

5

449

2

75

80

14

350

25

15

30

1

BIT RECORD

Bit#

3

4

S/N

7145801

7142220

Size (in)

8.75

8.75

Mfg

BAKER HUGHES

Hughs

IADC Type

T606X

T606X

Model #

6X14

6X20

Jets

7,415

12,470

Depth In (ft)

12,470

Depth Out (ft)

0/0

50/70

Bit Rotations

On Btm Hrs Cum

Footage Cum (ft)

4.50

ROP Cum

WOB mm/mx (kip)

0 / 0

10 / 35

RPM rot/bit

0 / 0

50 / 70

Bit HP

1.25

0.61

HSI

1.38

0.33

PSI Drop (psi)

274.51

65.91

Jet Vel (ft/s)

184.64

90.47

Imp Force

446.87

218.97

Grading

I

O

D

L

B

G

O

R

Bit # 3

8

8

WT

S

X

4

WT

PR

Bit # 4

CASING

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

13.38

40.00 /

40.00

9.63

935.00 /

935.00

5.50

15,114.03 /

7,150.01

INVENTORY

Item

Inv

DIESEL

13,002

MUD DIESEL

5,982

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): 1,968 @

BG Gas (units): 930

Surf to Surf:

Lag Strokes:

Lag Time: (min)

Conn Gas (units) @

Pore Pressure: (%)

Form:

BHA # 4

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

T606X PDC BIT

8.750

1.00

1.00

6 3/4" 1.83" 7/8 6.4 .29 RPG FBH M

1.750

6.750

26.20

27.20

1

UBHO SUB

2.820

6.750

3.72

30.92

1

NMDC

3.250

6.820

31.01

61.93

1

NM FLEX DC

2.820

6.690

30.52

92.45

105

5" DP

4.276

5.000

3,309.69

3,402.14

1

DRILLING AGITATOR

2.500

6.750

12.98

3,415.12

1

SHOCK SUB

2.250

6.875

10.82

3,425.94

1

5" DP

4.276

5.000

9,249.09

12,675.03

Total Length:

12,675.03

STRING LOADS

On Btm Torque:

0

Off Btm Torque:

0

Str. Wt. Up:

240

Str. Wt. Down:

120

Str. Wt. Rot.:

170

Max Over Pull:

10

BHA PROPERTIES

BHA Hrs:

0

Jar Hrs:

Cum String Hours:

50

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

6.00

SPM:

62.00

62.00

GPM:

259.54

259.54

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):

500

SPP (psi):

3.000

AV (DC):

377

AV (DP):

274

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

11,852

89.90

359.40

7,143

4,879.26

-335.91

4,879.26

0.99

11,947

89.00

359.60

7,144

4,974.26

-336.74

4,974.26

0.97

12,042

91.10

0.00

7,144

5,069.25

-337.07

5,069.25

2.25

12,138

93.20

1.60

7,140

5,165.16

-335.73

5,165.16

2.75

12,233

87.60

1.30

7,140

5,260.09

-333.33

5,260.09

5.90

12,328

89.60

2.70

7,142

5,355.00

-330.01

5,355.00

2.57

12,423

91.60

2.80

7,141

5,449.88

-325.46

5,449.88

2.11

12,518

90.70

2.40

7,139

5,544.76

-321.15

5,544.76

1.04

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

08:00

2.00

P

DRLPRD

13

TRIP

POOH. TO 7,500'.

08:00

10:30

2.50

P

DRLPRD

15

CIRC

CIRC. HOLE CLEAN @ 7,500'. BOC.

10:30

11:30

1.00

P

DRLPRD

13

TRIP

POOH.

11:30

12:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

12:00

14:30

2.50

P

DRLPRD

13

TRIP

POOH.

14:30

15:30

1.00

P

DRLPRD

14

PULDSTR

LAY DOWN SHOCK SUB AND AGITATOR.

15:30

16:30

1.00

P

DRLPRD

42

OTHER

CLEAN OBM FROM RIG FLOOR .

16:30

18:00

1.50

P

DRLPRD

14

PULDSTR

CHANGE OUT BHA & BIT.

18:00

18:30

0.50

P

DRLPRD

13

TRIP

TIH TO 1,159' TEST MWD TOOL.

18:30

19:00

0.50

P

DRLPRD

13

TRIP

TIH FROM 1,159' TO 2,487' P/U SHOCK SUB & AGITATOR.

19:00

21:00

2.00

P

DRLPRD

13

TRIP

TIH FROM 2,487' TO 7,471'.

21:00

22:30

1.50

P

DRLPRD

15

CIRC

CIRC. HOLE CLEAN @ 7,471'. BOC.

22:30

01:30

3.00

P

DRLPRD

13

TRIP

TIH. B / CIRC PER 30 STANDS.

01:30

05:00

3.50

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 12,470'. TO 12,675'.

05:00

06:00

1.00

P

DRLPRD

15

CIRC

CIRC. DUE TO EXCESSIVE CUTTINGS.

Daily Operations Comments

DRILLING OFF OF DIRECTIONAL PLAN # 1

NOV 1.83 FBH 7/8 5.0 BTS - 43' BTG - 32' BTB - 5.1' RPG - 0.31

MUD LOSS: 255 BBLS.

WPS: 285,445-MUD LOSS: 82 BBLS

Daily Drilling

Report Onshore

Well Name/Wellbore No.:

UNIVERSITY EAST 4412JH/OH

Report Number:

014

Country:

USA

State/OCSG:

TEXAS

Field/Permit#:

WOLFCAMP EAST

Supervisors:

JOHN LAYTON / KENNETH SWILLEY

Engineer/Manager:

BRENT BAKER / EVANS / GAYDOS

Report Date:

10/19/2013

Spud Date:

10/11/2013

Release Date:

DFS: 8.00

DOL: 13

AFE Days: 10

Last BOP T.:

10/11/2013

Safety & Environmental Incident:

No

Depth md/tvd (ft):

13,050.03 / 7,137.32

Progress (ft):

375.00

ROP:

375.0 / 7.00 = 53.57

Proposed TD (ft):

15,114.00

Next Csg Point (ft):

15,114.03

Rig:

NORAM/21

Rig Phone:

713-997-1265

RKB (ft):

2,745.51

Ground Level (ft):

2,716.0

POB:

27

Total Man Hours:

0.00

AFE #:

160697/49997

Day Cost(\$):

81,846

Cum Cost(\$):

1,175,412

AFE(\$):

0

Drig

Comp

Fac

Total

13.38

40.00 /

40.00

9.63

935.00 /

935.00

5.50

15,114.03 /

7,150.01

81,846

0

0

1,175,412

0

0

0

0

Current Activity:

DRILLING LATERAL @13,050' PTB: 90.2° AZM: 358.3° TVD: 7,137' - 3.1' ABOVE - 4.4' RIGHT- TOTAL LATERAL: 5,666'.

24 Hr Summary:

CIRC. DUE TO EXCESSIVE CUTTINGS, TROUBLE SHOOT ELECTRICAL PROBLEM, CIRC. DRILL LATERAL TO 13,050'.

24 Hr Forecast:

DRILL LATERAL.

MUD PROPERTIES

MUD MATERIALS

Fluids Co.:

BAROID

Fluids Eng:

SCOTT DEHART

Time:

18:00

Oil Cnt (%):

65

Location:

JCTION TANK

H2O Cnt (%):

25

Pit Temp (°F):

136

Sand Cnt:

MBT:

Depth (ft):

12,675.03

Density (ppg):

9.20

pH:

50

FV (s/qt):

14

Pf/Mf:

15

YP (lb/100ft²):

9/14/19

Calcium:

10.00

WL:

HTHP (°F):

250

ES (mV):

502.0

2.00

LGS (%):

5.20

Solids (lbm/bbl):

7

Ex Lime (ppb):

4.3

ECD (ppg):

9.5

OWR:

72.2 / 27.8

D M Cost(\$):

\$12,531.10

C M Cost(\$):

\$88,969.56

Mud Additives

Used

INVERMUL

2

BARABLOK

40

GELTONE V

25

DRILL TREAT

12

LIME

50

ENGINEERING

1

EZ MUL

2

CALCIUM CHLORIDE PO

75

Bit#

4

S/N

7142220

Size (in)

8.75

Mfg

Hughs

IADC Type

T606X

Model #

6X20

Jets

12,470

Depth In (ft)

50/70

Depth Out (ft)

11.50

Bit Rotations

375

On Btm Hrs Cum

32.6

Footage Cum (ft)

10 / 20

ROP Cum

50 / 70

WOB mm/mx (kip)

1.02

RPM rot/bit

0.55

Bit HP

93.40

HSI

106.52

PSI Drop (psi)

310.30

Jet Vel (ft/s)

Grading

Imp Force

I O D L B G O R

Bit #

4

Size(in)

MD(ft)/TVD(ft)

Fit/LOT(ppg)

13.38

40.00 /

40.00

9.63

935.00 /

935.00

5.50

15,114.03 /

7,150.01

INVENTORY

Item

Inv

DIESEL

10,784

MUD DIESEL

8,807

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):

1,968 @

Conn Gas (units)

@

Form:

BG Gas (units):

930

Pore Pressure:

(%)

Surf to Surf:

Lag Strokes:

Lag Time:

(min)

BHA # 4

STRING LOADS

Qty

Item Description

ID (in)

OD (in)

Len (ft)

Cum (ft)

1

T606X PDC BIT

8.750

1.00

1.00

1

6 3/4" 1.83" 7/8 6.4 .29 RPG FBH M

1.750

6.750

26.20

27.20

1

UBHO SUB

2.820

6.750

3.72

30.92

1

NMDC

3.250

6.820

31.01

61.93

1

NM FLEX DC

2.820

6.690

30.52

92.45

105

5" DP

4.276

5.000

3,309.69

3,402.14

1

DRILLING AGITATOR

2.500

6.750

12.98

3,415.12

1

SHOCK SUB

2.250

6.875

10.82

3,425.94

5"

DP

4.276

5.000

11,322.09

14,748.03

Total Length:

14,748.03

On Btm Torque:

14,500

Off Btm Torque:

5,500

Str. Wt. Up:

245

Str. Wt. Down:

120

Str. Wt. Rot.:

175

Max Over Pull:

10

BHA PROPERTIES

BHA Hrs:

7

Jar Hrs:

Cum String Hours:

12

Weight B Jars (kip):

MUD PUMPS

#1

#2

#3

Pump

DR

DR

Type:

Liner ID:

6.00

SPM:

73.00

GPM:

305.58

SPR:

1 SPM:

0.00

Pressure:

0.00

2 SPM:

0.00

Pressure:

0.00

T GPM (gpm):

306

SPP (psi):

3,800

AV (DC):

377

AV (DP):

274

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

12,233

87.60

1.30

7,140

5,260.09

-333.33

5,260.09

5.90

12,328

89.60

2.70

7,142

5,355.00

-330.01

5,355.00

2.57

12,423

91.60

2.80

7,141

5,449.88

-325.46

5,449.88

2.11

12,518

90.70

2.40

7,139

5,544.76

-321.15

5,544.76

1.04

12,614

89.80

0.30

7,139

5,640.73

-318.89

5,640.73

2.38

12,709

90.10

0.20

7,139

5,735.73

-318.47

5,735.73

0.33

12,804

90.30

359.50

7,138

5,830.73

-318.72

5,830.73

0.77

12,899

90.20

358.70

7,138

5,925.71

-320.21

5,925.71

0.85

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

12:00

6.00

P

DRLPRD

15

CIRC

CIRC. DUE TO EXCESSIVE CUTTINGS @ 600 GPM.

12:00

16:30

4.50

P

DRLPRD

15

CIRC

CIRC @ REDUCED RATE 335 GPM WHILE REPLACING PONY ROD SWAB @ LINER ON MUD PUMP # 1.

16:30

17:30

1.00

P

DRLPRD

15

CIRC

CIRC. DUE TO EXCESSIVE CUTTINGS @ 600 GPM.

17:30

18:00

0.50

P

DRLPRD

12

RIGSVC

RIG SERVICE.

18:00

21:00

3.00

N

DRLPRD

15

CIRC

CIRC @ REDUCED RATE 335 GPM WHILE TROUBLE SHOOTING ELECTRICAL PROBLEM ON ENGINE # 1. REPLACED FIVE BAD ELECTRICAL WIRES.

21:00

23:00

2.00

P

DRLPRD

15

CIRC

CIRC. DUE TO EXCESSIVE CUTTINGS @ 600 GPM.

23:00

03:00

4.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 12,675' TO 12,950'.

03:00

04:00

1.00

P

DRLPRD

15

CIRC

CIRC. WHILE CHANGING LINER & SWAB ON MUD PUMP # 2

04:00

06:00

2.00

P

DRLPRD

10

DRLLAT

DRILL LATERAL FROM 12,950' TO 13,050'.

Daily Operations Comments

DRILLING OFF OF DIRECTIONAL PLAN # 1


NOV 1.83 FBH 7/8 5.0

BTS - 43° BTG - 32° BTB - 5.1° RPG - 0.31

NO MUD LOSS

WPS ppm

283324

<div>  <div> Daily Drilling Report Onshore </div> </div>				Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH				Report Number: 015 Report Date: 10/20/2013 Spud Date: 10/11/2013 Release Date: DOL: 14 AFE Days: 10 Last BOP T.: 10/11/2013 Safety & Environmental Incident: No																												
Depth md/tvd (ft): 14,748.03 / 7,146.41 Progress (ft): 1,698.00 ROP: 1,698.0 / 21.50 = 78.98 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03				Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 29 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>160697/49997</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>88,024</td> <td>0</td> <td>0</td> <td>88,024</td> </tr> <tr> <td>Cum Cost(\$):</td> <td>1,263,436</td> <td>0</td> <td>0</td> <td>1,263,436</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 #:	160697/49997				Day Cost(\$):	88,024	0	0	88,024	Cum Cost(\$):	1,263,436	0	0	1,263,436	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																																
AFE #:	160697/49997																																			
Day Cost(\$):	88,024	0	0	88,024																																
Cum Cost(\$):	1,263,436	0	0	1,263,436																																
AFE(\$):	0	0	0	0																																
Current Activity: DRILLING LATERAL @14,748' PTB:89.6 ° AZM:0.70 ° TVD:7,145' - 2.4' ABOVE - 2.7' RIGHT- TOTAL LATERAL:7,364' . 24 Hr Summary: DRILL LATERAL TO 14748'. REPAIR BRAKES ON TDS. 24 Hr Forecast: DRILL TO TD. CIRCULATE HOLE CLEAN. TOOH. L/D BHA. CHANGE OUT RAMS.																																				
MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING																														
Fluids Co.: BAROID Fluids Eng: SCOTT DEHART Time: 18:00 Oil Cnt (%): 65 Location: JCTION TANK H2O Cnt (%): 25 Pit Temp (°F): 132 Sand Cnt: Depth (ft): 14,000.03 MBT: Density (ppg): 9.10 pH: FV (s/qt): 53 Pm: PV (cp): 13 P/Mf: YP (lb/100ft²): 16 Chloride: Gels (l): 11/16/20 Calcium: WL: 9.00 LCM: HTHP (°F): 250 ES (mV): 503.0 Cake: 2.00 LGS (%): 6.10 Solids (lbm/bbl): 7 Ex Lime (ppb): 4.3 ECD (ppg): 9.8 OWR: 73.0 / 27.0		D M Cost(\$): \$22,247.77 C M Cost(\$): \$111,217.33 Mud Additives CALCIUM CHLORIDE PO 130 BARABLOK 45 EZ MUL 1 FUEL SURCHARGE 7,150 OIL ABSORBENT CLAY 24 DRILL TREAT 3 ENGINEERING 1 INVERMUL 1 LIQUID MUD RENTAL 4,040 LIME 50		Bit# 4 S/N 7142220 Size (in) 8.75 Mfg Hughs IADC Type Model # T606X Jets 6X20 Depth In (ft) 12,470 Depth Out (ft) Bit Rotations 50/70 On Btm Hrs Cum 33.00 Footage Cum (ft) 2,073 ROP Cum 62.8 WOB mm/mx (kip) 25 / 35 RPM rot/bit 50 / 70 Bit HP 0.83 HSI 0.45 PSI Drop (psi) 81.24 Jet Vel (ft/s) 99.35 Imp Force 269.91		Size(in) 13.38 MD(ft)/TVD(ft) 40.00 / 40.00 FIT LOT(ppg) 8,599 9.63 935.00 / 935.00 5.50 15,114.03 / 7,150.01																														
MUD LOGGING				INVENTORY																																
Trip Gas (units): 0 @ 0 Conn Gas (units): 02 @ 1,298 Form:				BG Gas (units): 749 Surf to Surf: Lag Strokes: Lag Time: (min) Pore Pressure: (%)																																
				Item DIESEL MUD DIESEL Inv 8,599 9,157																																
				SOLIDS CONTROL																																
				Skr Deck 1 Screens Deck 2 Screens 1 50/50/50/50 2 50/50/50/50 3 50/50/50/50																																
BHA # 4				STRING LOADS		MUD PUMPS																														
Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 14,500	#1																													
1	T606X PDC BIT		8.750	1.00	1.00	Off Btm Torque: 7,500	#2																													
1	6 3/4" 1.83" 7/8 6.4 .29 RPG FBH M	1.750	6.750	26.20	27.20	Str. Wt. Up: 245	#3																													
1	UBHO SUB	2.820	6.750	3.72	30.92	Str. Wt. Down: 120																														
1	NMDC	3.250	6.820	31.01	61.93	Str. Wt. Rot.: 175																														
1	NM FLEX DC	2.820	6.690	30.52	92.45	Max Over Pull: 10																														
105	5" DP	4.276	5.000	3,309.69	3,402.14																															
1	DRILLING AGITATOR	2.500	6.750	12.98	3,415.12																															
1	SHOCK SUB	2.250	6.875	10.82	3,425.94																															
1	5" DP	4.276	5.000	11,322.09	14,748.03																															
Total Length: 14,748.03						BHA PROPERTIES																														
						BHA Hrs: 22																														
						Jar Hrs:																														
						Cum String Hours: 36																														
						Weight B Jars (kip):																														
						SPR: 1 SPM: 40.00 40.00																														
						Pressure: 630.00 640.00																														
						2 SPM: 0.00 0.00																														
						Pressure: 0.00 0.00																														
						T GPM (gpm): 560 SPP (psi): 3,850																														
						AV (DC): 377 AV (DP): 274																														
SURVEYS																																				
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)																														
13,945		90.50		0.90		7,150																														
14,040		91.90		1.60		7,148																														
14,135		90.20		359.20		7,146																														
14,230		90.40		358.10		7,146																														
14,325		89.60		358.80		7,146																														
14,420		89.90		0.70		7,146																														
14,515		90.80		1.10		7,146																														
14,610		89.60		0.70		7,145																														
						V Section (ft)																														
						6,971.11																														
						7,066.06																														
						7,161.03																														
						7,256.00																														
						7,350.97																														
						7,445.96																														
						7,540.95																														
						7,635.93																														
						+E/-W (ft)																														
						-319.41																														
						-317.33																														
						-316.67																														
						-318.91																														
						-321.48																														
						-321.89																														
						-320.40																														
						-318.91																														
						+N/-S (ft)																														
						6,971.11																														
						7,066.06																														
						7,161.03																														
						7,256.00																														
						7,350.97																														
						7,445.96																														
						7,540.95																														
						7,635.93																														
						Dog Leg (°/100ft)																														
						2.12																														
						1.65																														
						3.10																														
						1.18																														
						1.12																														
						2.02																														
						1.04																														
						1.33																														
OPERATION DETAILS																																				
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION																													
06:00	15:30	9.50	P	DRLPRD	10	DRLLAT	DRILL FROM 13,050' TO 13,798'																													
15:30	16:00	0.50	P	DRLPRD	12	RIGSVC	RIG SERVICE																													
16:00	18:30	2.50	P	DRLPRD	10	DRLLAT	DRILL FROM 13,798' TO 13,989'																													
18:30	20:30	2.00	N	DRLPRD	43	RRTOP	REPLACED TWO BRAKE CALIPER ON TDS																													
20:30	06:00	9.50	P	DRLPRD	10	DRLLAT	DRILL FROM 13,989' TO 14,748'																													
Daily Operations Comments																																				
DRILLING OFF OF DIRECTIONAL PLAN # 1																																				
NOV 1.83 FBH 7/8 5.0 BTS - 43' BTG - 32' BTB - 5.1' RPG - 0.31 NO MUD LOSS																																				
WPS ppm 283324																																				

EP ENERGY Daily Drilling Report Onshore				Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH				Report Number: 016									
				Country: USA				Report Date: 10/21/2013									
				State/OCSG: TEXAS				Spud Date: 10/11/2013									
				Field/Permit#: WOLFCAMP EAST				Release Date:									
				Supervisors: JOHN LAYTON				DFS: 10.00 DOL: 15 AFE Days: 10									
				Engineer/Manager: BRENT BAKER / EVANS / GAYDOS				Last BOP T.: 10/11/2013									
								Safety & Environmental Incident: No									
Depth md/tvd (ft): 15,117.03 / 7,145.91				Rig: NORAM21				Drig				Comp		Fac		Total	
Progress (ft): 369.00				Rig Phone: 713-997-1265				AFE #:				160697/49997					
ROP: 369.0 / 4.50 = 82.00				RKB (ft): 2,745.51				Day Cost(\$):				65,898		0		65,898	
Proposed TD (ft): 15,114.00				Ground Level (ft): 2,716.0				Cum Cost(\$):				1,329,333		0		1,329,333	
Next Csg Point (ft): 15,114.03				POB: 27 Total Man Hours: 0.00				AFE(\$):				0		0		0	
Current Activity: SLIP & CUT DRILL LINE. PTB:90.10 ° AZM:359.90 ° TVD:7,145' - 3.7' ABOVE - 5.6' RIGHT- TOTAL LATERAL: 7,733'.																	
24 Hr Summary: DRILL LATERAL TO TD @ 15,117'. TD WELL @ 10:30 HRS ON 10/20/2013. CIRCULATE HOLE CLEAN. TOOH TO BASE OF CURVE CBU PUMP SWEEPS.																	
24 Hr Forecast: CHANGE OUT RAMS. RIG UP & RUN 5.5" PRODUCTION CASING. CEMENT PRODUCTION CASING.																	
MUD PROPERTIES				MUD MATERIALS				BIT RECORD				CASING					
Fluids Co.: BAROID				D M Cost(\$): \$9,772.83				Bit# 4				Size(in)					
Fluids Eng: SCOTT DEHART				C M Cost(\$): \$120,990.16				S/N 7142220				MD(ft)/TVD(ft)					
Time: 12:00 Oil Cnt (%): 65				Mud Additives Used				Size (in) 8.75				FT/LOT(ppg)					
Location: ICTION TANK H2O Cnt (%): 25				GELTONE V 18				Mfg Hughs				13.38 40.00 / 40.00					
Pit Temp (°F): 131 Sand Cnt:				EZ MUL 1				IADC Type				9.63 935.00 / 935.00					
Depth (ft): 15,117.03 MBT:				CALCIUM CHLORIDE PO 112				Model #				5.50 15,114.03 / 7,150.01					
Density (ppg): 9.10 pH:				MUD DIESEL 6,400				Jets									
FV (s/qt): 52 Pm:				ENGINEERING 1				Depth In (ft) 12,470									
PV (cp): 13 P/Mf:				DRILL TREAT 5				Depth Out (ft) 15,117									
YP (lb/100ft³): 16 Chloride:				BAROID 80				Bit Rotations 50/70									
Gels (l): 11/16/20 Calcium:				INVERMUL 1				On Btm Hrs Cum 37.50									
WL: 9.00 LCM:				DURATONE HT 20				Footage Cum (ft) 2,442									
HTHP (°F): 250 ES (mV): 505.0								ROP Cum 65.1									
Cake: 2.00 LGS (%): 6.10								WOB mm/mx (kip) / 25 / 35									
Solids (lbm/bbl): 7 Ex Lime (ppb): 4.3								RPM rot/bit / 50 / 70									
ECD (ppg): 9.8 OWR: 73.0 / 27.0								Bit HP 0.83									
								HSI 0.45									
								PSI Drop (psi) 81.24									
								Jet Vel (ft/s) 99.35									
								Imp Force 269.91									
MUD LOGGING																	
Trip Gas (units): 0 @ 0				BG Gas (units): 749				Surf to Surf:									
Conn Gas (units): 0 @ 1,298				Pore Pressure: (%)				Lag Strokes: (min)									
Form:								Grading				I O D L B G O R					
								Bit #									
								Bit # 4				1 3 NO H 0 8 BT TD					
BHA # 4						STRING LOADS						MUD PUMPS					
Qty	Item Description		ID (in)	OD (in)	Len (ft)	Cum (ft)	On Btm Torque: 14,500						#1 #2 #3				
1	T606X PDC BIT			8.750	1.00	1.00	Off Btm Torque: 7,500						Pump DR DR				
1	6.3/4" 1.83" 7/8 6.4 .29 RPG FBH M		1.750	6.750	26.20	27.20	Str. Wt. Up: 245						Type: DR DR				
1	UBHO SUB		2.820	6.750	3.72	30.92	Str. Wt. Down: 120						Liner ID: 6.00 6.00				
1	NMDC		3.250	6.820	31.01	61.93	Str. Wt. Rot.: 175						SPM: 66.00 66.00				
1	NM FLEX DC		2.820	6.690	30.52	92.45	Max Over Pull: 10						GPM: 276.28 276.28				
105	5" DP		4.276	5.000	3,309.69	3,402.14							SPR:				
1	DRILLING AGITATOR		2.500	6.750	12.98	3,415.12							1 SPM: 0.00 0.00				
1	SHOCK SUB		2.250	6.875	10.82	3,425.94							Pressure: 0.00 0.00				
1	5" DP		4.276	5.000	11,691.09	15,117.03							2 SPM: 0.00 0.00				
Total Length: 15,117.03												Pressure: 0.00 0.00					
BHA PROPERTIES																	
BHA Hrs: 5																	
Jar Hrs:																	
Cum String Hours: 48																	
Weight B Jars (kip):																	
												T GPM (gpm): 560 SPP (psi): 3,900					
												AV (DC): 377 AV (DP): 274					
SURVEYS																	
MD (ft)		Inclination(°)		Azimuth (°)		TVD (ft)		V Section (ft)		+E/-W (ft)		+N/-S (ft)		Dog Leg (°/100ft)			
14,420		89.90		0.70		7,146		7,445.96		-321.89		7,445.96		2.02			
14,515		90.80		1.10		7,146		7,540.95		-320.40		7,540.95		1.04			
14,610		89.60		0.70		7,145		7,635.93		-318.91		7,635.93		1.33			
14,705		90.30		0.60		7,146		7,730.93		-317.83		7,730.93		0.74			
14,801		89.40		0.30		7,146		7,826.92		-317.08		7,826.92		0.99			
14,896		90.60		1.30		7,146		7,921.91		-315.75		7,921.91		1.64			
14,991		89.50		359.80		7,146		8,016.90		-314.84		8,016.90		1.96			
15,074		90.10		359.90		7,146		8,099.90		-315.06		8,099.90		0.73			
OPERATION DETAILS																	
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION										
06:00	10:30	4.50	P	DRLPRD	10	DRLLAT	DRILL FROM 14,748' TO 15,117' "TD"										
10:30	15:00	4.50	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN. MIXED & PUMPED TWO 30 BBL HIGH VIS SWEEEPS. MIX & PUMP SLUG										
15:00	19:00	4.00	P	DRLPRD	13	TRIP	TRIP OUT OF HOLE FROM 15,117' TO 7,515'. BASE OF CURVE.										
19:00	23:00	4.00	P	DRLPRD	15	CIRC	CIRCULATE HOLE CLEAN @ BASE OF CURVE										
23:00	04:30	5.50	P	DRLPRD	13	TRIP	CONTINUE TRIPPING OUT OF HOLE										
04:30	05:00	0.50	P	DRLPRD	42	OTHER	CLEAR RIG FLOOR										
05:00	06:00	1.00	P	DRLPRD	17	CUTSLIP	SLIP & CUT 117' OF DRILL LINE										
Daily Operations Comments																	
DRILLING OFF OF DIRECTIONAL PLAN # 1																	
NOV 1.83 FBH 7/8 5.0 BTS - 43' BTG - 32' BTB - 5.1' RPG - 0.31 NO MUD LOSS																	
WPS ppm 283324																	

EP ENERGY

Daily Drilling Report Onshore

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

Country: USA

State/OCSG: TEXAS

Field/Permit#: WOLFCAMP EAST

Supervisors: JOHN LAYTON

Engineer/Manager: BRENT BAKER / EVANS / GAYDOS

Report Number: 017

Report Date: 10/22/2013

Spud Date: 10/11/2013

Release Date:

DFS: 11.00

DOL: 16

AFE Days: 10

Last BOP T.: 10/11/2013

Safety & Environmental Incident: No

Depth md/tvd (ft): 15,117.03 / 7,145.91

Progress (ft): 0.00

ROP: 0.0 / = 0.00

Proposed TD (ft): 15,114.00

Next Csg Point (ft): 15,114.03

Rig: NORAM/21

Rig Phone: 713-997-1265

RKB (ft): 2,745.51

Ground Level (ft): 2,716.0

POB: 39

Total Man Hours: 0.00

AFE #:

Day Cost(\$): 68,011

Cum Cost(\$): 1,407,616

AFE(\$): 0

Drig: 160697/49997

Comp: 0

Fac: 0

Total: 68,011

1,407,616

0

Current Activity: CIRCULATING @ 15,117"

24 Hr Summary: SLIP & CUT DRILL LINE. RU/RUN 5 1/2" CSG TO 15,117". R/D CSG CREW. R/U HALLBURTON CMT HEAD. RUPTURE FLOATATION COLLAR WITH 1,380 PSI. CIRCULATE AIR FROM CASING.

24 Hr Forecast: CEMENT PRODUCTION CASING. N/D BOP. INSTALL 5 1/2" CSG SLIPS. SKID TO UNIVERSITY 44-12 KH

MUD PROPERTIES

Fluids Co.: BAROID

Fluids Eng: SCOTT DEHART

Time: 12:00

Location: JCTION TANK

Pit Temp ("F": 0

Depth (ft): 15,117.03

Density (ppg): 9.10

FV (s/qt): 56

PV (cp): 15

YP (lb/100ft²): 16

Gels (l): 12/17/22

WL: 9.00

HTHP ("F"): 250

Cake: 2.00

Solids (lbm/bbl): 7

ECD (ppg): 0.0

MUD MATERIALS

D M Cost(\$): \$900.00

C M Cost(\$): \$121,890.16

Mud Additives

Used

ENGINEERING

1

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 min/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/LOT(ppg)

13.38

40.00 / 40.00

9.63

935.00 / 935.00

5.50

15,114.03 / 7,150.01

INVENTORY

Item

Inv

DIESEL

5,390

MUD DIESEL

5,607

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): 0 @ 0

Conn Gas (units)002 @ 1,298

Form:

BG Gas (units): 749

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

Pore Pressure: (%)

MUD PUMPS

#1

#2

#3

Pump Type:

Liner ID:

SPM:

GPM:

SPR:

1 SPM:

Pressure:

2 SPM:

Pressure:

T GPM (gpm):

AV (DC): 377

SPP (psi):

AV (DP): 274

SURVEYS

MD (ft)

Inclination(°)

Azimuth (°)

TVD (ft)

V Section (ft)

+E/-W (ft)

+N/-S (ft)

Dog Leg (°/100ft)

14,420

89.90

0.70

7,146

7,445.96

-321.89

7,445.96

2.02

14,515

90.80

1.10

7,146

7,540.95

-320.40

7,540.95

1.04

14,610

89.60

0.70

7,145

7,635.93

-318.91

7,635.93

1.33

14,705

90.30

0.60

7,146

7,730.93

-317.83

7,730.93

0.74

14,801

89.40

0.30

7,146

7,826.92

-317.08

7,826.92

0.99

14,896

90.60

1.30

7,146

7,921.91

-315.75

7,921.91

1.64

14,991

89.50

359.80

7,146

8,016.90

-314.84

8,016.90

1.96

15,074

90.10

359.90

7,146

8,099.90

-315.06

8,099.90

0.73

OPERATION DETAILS

FROM

TO

HRS

OP CODE

PHASE

CODE

ACTIVITY

DESCRIPTION

06:00

07:00

1.00

P

CASPRD1

17

CUTSLIP

CONTINUE SLIP & CUT DRILL LINE.

07:00

08:30

1.50

P

CASPRD1

23

RAMBLCK

CHANGE OUT 5" PIPE RAMS TO 5 1/2" CASING RAMS

08:30

09:30

1.00

P

CASPRD1

24

RUNCAS

HELP PRE-JOB SAFETY MEEETING WITH EXPRESS & NORAM DRILLING CREWS

09:30

21:00

11.50

P

CASPRD1

24

RUNCAS

P.U. 5 1/2" 17.0# HCP-110 LTC SHOE TRACK. CIRC. THRU, 5 1/2" 17.0# HCP-110 LTC CSG. TO 10,877'

21:00

23:00

2.00

P

CASPRD1

24

RUNCAS

WORK THROUGH OBSTRUCTION FROM 10,877' TO 10,918'

23:00

03:00

4.00

P

CASPRD1

24

RUNCAS

CONTINUE RUNNUNG TOTAL OF 382 JTS. 5 1/2" 17# HCP-110 LTC CSG @ (15,117'). MARKERS: MID LATERAL @11,267'- BOC@ 7,373'- FLOATATION COLLAR @7,246'- TOC @ 6,680'.

03:00

03:30

0.50

P

CASPRD1

24

RUNCAS

RD CASING CREW. INSTALL CEMENT HEAD.

03:30

06:00

2.50

P

CASPRD1

15

CIRC

RUPTURE FLOATATION COLLAR WITH 1,380 PSI. CIRCULATE AIR FROM CASING.

Daily Operations Comments

NO MUD LOSS

WPS ppm 283324

Daily Drilling Report Onshore		Well Name/Wellbore No.: UNIVERSITY EAST 4412JH/OH		Report Number: 018 Report Date: 10/23/2013 Spud Date: 10/11/2013 Release Date: DFS: 12.00 DOL: 17 AFE Days: 10 Last BOP T.: 10/11/2013 Safety & Environmental Incident: No	
		Country: USA State/OCSG: TEXAS Field/Permit#: WOLFCAMP EAST Supervisors: JOHN LAYTON Engineer/Manager: BRENT BAKER / EVANS / GAYDOS			

Depth md/tvd (ft): 15,117.03 / 7,145.91 Progress (ft): 0.00 ROP: 0.0 / = 0.00 Proposed TD (ft): 15,114.00 Next Csg Point (ft): 15,114.03	Rig: NORAM/21 Rig Phone: 713-997-1265 RKB (ft): 2,745.51 Ground Level (ft): 2,716.0 POB: 33 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 #:</td> <td>160697/49997</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Day Cost(\$):</td> <td>415,642</td> <td>0</td> <td>0</td> <td>415,642</td> </tr> <tr> <td>Cum Cost(\$)</td> <td>1,823,258</td> <td>0</td> <td>0</td> <td>1,823,258</td> </tr> <tr> <td>AFE(\$):</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>		Drig	Comp	Fac	Total	AFE #:	160697/49997				Day Cost(\$):	415,642	0	0	415,642	Cum Cost(\$)	1,823,258	0	0	1,823,258	AFE(\$):	0	0	0	0
	Drig	Comp	Fac	Total																							
AFE #:	160697/49997																										
Day Cost(\$):	415,642	0	0	415,642																							
Cum Cost(\$)	1,823,258	0	0	1,823,258																							
AFE(\$):	0	0	0	0																							

Current Activity: SKID RIG TO UNIVERSITY 44-12 KH
 24 Hr Summary: CEMENT 5 1/2" CASING. N/D BOP. INSTALL T/A CAP. RIGRELEASEED @ 18:00 HRS 10/22/2013. PREP FOR SKID.
 24 Hr Forecast: SKID TO UNIVERSITY 44-12 KH

MUD PROPERTIES		MUD MATERIALS		BIT RECORD		CASING	
Fluids Co.: BAROID	D M Cost(\$): \$0.00	Bit#				Size(in)	MD(ft)/TVD(ft)
Fluids Eng: SCOTT DEHART	C M Cost(\$): \$121,890.16	S/N				13.38	40.00 / 40.00
Time: 12:00 Oil Cnt (%): 65	Mud Additives	Used				9.63	935.00 / 935.00
Location: JCTION TANK H2O Cnt (%): 25						5.50	15,114.03 / 7,150.01
Pit Temp (°F): 0 Sand Cnt:						INVENTORY	
Depth (ft): 15,117.03 MBT:						Item	Inv
Density (ppg): 9.10 pH:						DIESEL	5,390
FV (s/qt): 56 Pm:						MUD DIESEL	5,607
PV (cp): 15 P#Mf:						SOLIDS CONTROL	
YP (lb/100ft²): 16 Chloride:						Skr	Deck 1 Screens
Gels (l): 12/17/22 Calcium:						1	50/50/50/50
WL: 9.00 LCM:						2	50/50/50/50
HTHP (°F): 250 ES (mV): 510.0						3	50/50/50/50
Cake: 2.00 LGS (%): 5.30							
Solids (lbm/bbl): 7 Ex Lime (ppb): 4.3							
ECD (ppg): 0.0 OWR: 73.0 / 27.0							
MUD LOGGING							
Trip Gas (units): 0 @ 0	BG Gas (units): 749	Surf to Surf:					
Conn Gas (units)02 @ 1,298		Lag Strokes:					
Form:	Pore Pressure: (%)	Lag Time: (min)					
				Grading	I	O	D
				Bit #	L	B	G
				Bit #	O	R	

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): 377		AV (DP): 274	

SURVEYS							
MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
14,420	89.90	0.70	7,146	7,445.96	-321.89	7,445.96	2.02
14,515	90.80	1.10	7,146	7,540.95	-320.40	7,540.95	1.04
14,610	89.60	0.70	7,145	7,635.93	-318.91	7,635.93	1.33
14,705	90.30	0.60	7,146	7,730.93	-317.83	7,730.93	0.74
14,801	89.40	0.30	7,146	7,826.92	-317.08	7,826.92	0.99
14,896	90.60	1.30	7,146	7,921.91	-315.75	7,921.91	1.64
14,991	89.50	359.80	7,146	8,016.90	-314.84	8,016.90	1.96
15,074	90.10	359.90	7,146	8,099.90	-315.06	8,099.90	0.73

OPERATION DETAILS							
FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	06:30	0.50	P	CASPRD1	15	CIRC	HELP PRE-JOB SAFETY MEETING WITH HALLIBURTON & NORAM CRREWS WHILE CIRCULATING
06:30	11:00	4.50	P	CASPRD1	25	PRIMCEM	PJSM. SWITCH LINES TO HALLIBURTON. BREAK CIRCULATION. TEST LINES TO 8,000 PSI. PUMP 40 BBL SPACER. PUMPED 695 SX. VERSACEM-H LEAD CMT. 11.5 PPG YIELD 2.57 (314BBLs) TAILED WITH 1,770 SX. VERSACEM-H CMT. 14.4 PPG YIELD 1.27 (399 BBLs). WASH LINES. DROP TOP PLUG. DISPLACE WITH 350 BBLs 2% CLAY FIX WATER. BUMP PLUG WITH 1000 PSI OVER TO 1,300 PSI. BLEED OFF PRESSURE. BLEED BACK 3.0 BBLs. FLOATS HELD. FULL RETURNS WHILE CEMENTING. NO CEMENT. 15 BBLs SPACER TO SURFACE. R.D. HALLIBURTON.
11:00	18:00	7.00	P	CASPRD1	29	NDBOPE	WASH THRU SURFACE EQUIOMENT. N.D. BOPE. LIFT STACK. SET 5 1/2" CSG. SLIPS W/ 90,000#. CUT CSG. REMOVE STUB. SET BOP STACK BACK. N.U. CAP FLG. AND SECURE WELL. RELEASE RIG @ 17:00 hrs. 10/22/2013.

Daily Operations Comments
 NO MUD LOSS
 WPS ppm 283324