Daily Drilling Report Onshore

EP ENERGY

Data shared on this report is CONFIDENTIAL

Well Name/Wellbore No.: UNIVERSITY EAST 4128EH/00

Country:	USA
State/OCSG	TEXAS
Field/Permit#:	WOLFCAMP EAST
Supervisors:	JOE WILKERSON / JARED FAUST
Engineer/Manager:	MACAFEE, BRADLEY / MARES, SERGI

Report Number:	006	API #:	4210542411
Report Date:	08/28/2017		
Spud Date:	08/26/2017		
Release Date:			
DFS: 1.31	DOL: 5	AFE Days: 6	
Last BOP T.:	08/26/2017		

Depth md/tvd (ft):	6,200.01 / 6,073.67
Progress (ft):	2,882.01
ROP:	2,882.0 / 15.50 = 185.94
Proposed TD (ft):	14,120.50
Next Csg Point (ft):	14,120.03

Rig:	NABORS DRILLING/F-34
Rig Phone:	713-997-1205
RKB (ft):	2,660.01
Ground Level (ft):	2,630.0
POB:	35
Total Man Hours:	399.00

Current Activity: BUILDING CURVE @ 6,200' (PTB INC-46.7°, AZ-7.1°, AHEAD-1.2', RIGHT-7.9', DLN=12.9°)

24 Hr Summary: DRILL SIDEBUILD TO KOP. CBU. TOOH & P/U CURVE BHA. TIH & BUILD CURVE.

24 Hr Forecast: LAND CURVE. TOOH & P/U LATERAL BHA. TIH & DRILL LATERAL.

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: Wesley Vaughn

Time:	7:30	Oil Cnt (%):	70
Location:	JCTION TANK	H2O Cnt (%):	20
Pit Temp (°F	116	Sand Cnt (%):	0.01
Depth (ft):	5,847.01	MBT (lbm/bbl):	0.0
Density (ppg):	8.90	pH:	0.0
FV (s/qt):	55	Pm (cc):	0.0
PV (cp):	11	Pf (cc):/Mf (cc):	0.0 / 0.0
YP (lbf/100ft²):	9	Chloride (ppm):	0
Gels ():	7/9/11	Calcium (ppm):	0.00
WL (cc/30min):	5.20	LCM (lbm/bbl):	0.0
HTHP (°F):	250	ES (mV):	527.0
Cake (32nd"):	2.00	LGS (%):	7.50
Solids (lbm/bbl):	69	Ex Lime (ppb):	3.2
ECD (ppg):	9.3	OWR:	77.8 / 22.2

MUD MATERIALS

Mud Additives	Used
TAX	7,770
LIME	50
CALCIUM CHLORIDE PO	225
BARITE 41	170
BARABLOK	10
TRANSPORTATION	530
MUD ENGINEER	1

BIT RECORD

Bit#	1	2
S/N	12871262	5267986
Size (in)	8.75	8.75
Mfg	HALLIBURTON	BAKER
IADC Type		
Model #	MM56D	VG20M
Jets	5X16	3X18
Depth In (ft)	995	5,847
Depth Out (ft)	5,847	
Bit Rotations	40/70	25/25
On Btm Hrs Cum	10.50	5.00
Footage Cum (ft)	2,529	353
ROP Cum	269.6	70.6
WOB mn/mx (kip)	30 / 30	35 / 35
RPM rot/bit	40 / 70	25 / 25
Bit HP	1.73	2.28
HSI	1.76	3.06
PSI Drop (psi)	304.09	527.33
Jet Vel (ft/s)	195.42	257.34
Imp Force	538.80	709.53

Grading	I	O	D	L	B	G	O	R
Bit # 1	1	1	CT	S	X	I	WT	BHA
Bit # 2								

CASING

Size(in)	MD(ft)/TVD(ft)		FIT/LOT(ppg)
16.00	70.00 /	70.00	
9.63	995.00 /	995.00	
5.50	14,120.03 /	6,323.01	

INVENTORY

Item	Inv
OBM DIESEL	8,685
DIESEL	15,650

SOLIDS CONTROL

Skr	Deck 1 Screens	Deck 2 Screens
1	140/140/140/140	
2	140/140/140/140	
3	140/140/140/140	

MUD LOGGING

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

BHA # 2

Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)
1	INSERT BIT		8.750	1.00	1.00
1	RYAN 6-3/4" 4/5 7.0 2.12 FBH MUD		6.750	27.29	28.29
1	PONY COLLAR	3.250	6.625	10.49	38.78
1	EM TOOL	2.875	6.625	26.23	65.01
1	NMDC	2.875	6.625	28.30	93.31
	5" S-135	4.276	5.000	6,106.70	6,200.01
				Total Length:	6,200.01

STRING LOADS

On Btm Torque:	9,500
Off Btm Torque:	2,500
Str. Wt. Up:	200
Str. Wt. Down:	165
Str. Wt. Rot.:	180
Max Over Pull:	

BHA PROPERTIES

BHA Hrs:	11
Jar Hrs:	
Cum String Hours:	18
Weight B Jars (kip):	

MUD PUMPS

	#1	#2	#3
Pump Type:	DR	DR	
Liner ID:	5.50	5.50	
SPM:	85.00	85.00	
GPM:	298.98	298.98	
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): 598 SPP (psi): 2,500

AV (DC): 428 AV (DP): 269

SURVEYS

MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
5,213	5.56	89.97	5,125	-120.28	792.57	-120.28	1.04
5,400	3.00	94.19	5,311	-120.63	806.51	-120.63	1.38
5,588	1.25	105.09	5,499	-121.52	813.40	-121.52	0.95
5,776	0.88	109.84	5,687	-122.55	816.74	-122.55	0.20
5,867	3.69	27.92	5,778	-120.20	818.77	-120.20	4.03
5,961	17.13	8.06	5,870	-103.74	822.14	-103.74	14.59
6,055	29.13	7.53	5,957	-67.22	827.10	-67.22	12.77
6,149	39.25	7.18	6,034	-14.89	833.83	-14.89	10.77

OPERATION DETAILS

FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	16:30	10.50	P	DRLPRD	08	DRLDIR	DRILLED SIDE BUILD 3,318' - 5,847'.
16:30	17:00	0.50	P	DRLPRD	12	RIGSVC	SERVICE RIG.
17:00	18:00	1.00	P	DRLPRD	15	CIRC	CBU. PUMP SLUG.
18:00	21:30	3.50	P	DRLPRD	13	TRIP	TOOH & L/D SIDEBUILD BHA.
21:30	01:00	3.50	P	DRLPRD	13	TRIP	M/U CURVE BHA. (8 3/4" HUGES VG-20M, NDS 2.12° FBH MOTOR, PONY, EM, NMDC) TIH FILLING PIPE E/30 STDS.
01:00	06:00	5.00	P	DRLPRD	09	DRLCRV	DRILL CURVE 5,847' - 6,200'.

Daily Operations Comments

UTILIZING DIRECTIONAL PLAN #2.

CONFIDENTIAL