Daily Drilling Report Onshore

EP ENERGY

Data shared on this report is CONFIDENTIAL

Well Name/Wellbore No.:	UNIVERSITY EAST 4106CH/00	Report Number:	004 API #: 4210542391
Country:	USA	Report Date:	06/09/2017
State/OCSG	TEXAS	Spud Date:	
Field/Permit#:	WOLFCAMP EAST	Release Date:	
Supervisors:	PANNELL, CHARLES / JOHNSON, DUS	DFS: 2.10	DOL: 3 AFE Days: 6
Engineer/Manager:	MOTLEY, DEREK / MARES, SERGIO	Last BOP T.:	06/07/2016

Depth md/tvd (ft):	7,220.01 / 6,879.36	Rig:	NABORS DRILLING/F-34
Progress (ft):	1,536.00	Rig Phone:	713-997-1205
ROP:	1,536.0 / 19.00 = 80.84	RKB (ft):	2,701.01
Proposed TD (ft):		Ground Level (ft):	2,671.0
Next Csg Point (ft):	14,301.03	POB: 28	Total Man Hours: 321.00

Current Activity: TIH WITH LATERAL ASSEMBLY.

24 Hr Summary: DRILL TO KOP. BUILD CURVE. TOH FOR LATERAL ASSEMBLY. L/D CURVE ASSEMBLY. P/U LATERAL ASSEMBLY

24 Hr Forecast: TIH & DRILL LATERAL AHEAD.

MUD PROPERTIES

Fluids Co.: HALLIBURTON
Fluids Eng: Michael Burkett

Time:	0:00	Oil Cnt (%):	70
Location:	JCTION TANK	H2O Cnt (%):	18
Pit Temp (°F	99	Sand Cnt (%):	0.01
Depth (ft):	6,866.01	MBT (lbm/bbl):	0.0
Density (ppg):	9.20	pH:	0.0
FV (s/qt):	51	Pm (cc):	0.0
PV (cp):	13	Pf (cc):/Mf (cc):	0.0 / 0.0
YP (lbf/100ft²):	13	Chloride (ppm):	0
Gels ():	10/13/17	Calcium (ppm):	0.00
WL (cc/30min):	9.60	LCM (lbm/bbl):	0.0
HTHP (°F):	250	ES (mV):	565.0
Cake (32nd"):	2.00	LGS (%):	9.40
Solids (lbm/bbl):	85	Ex Lime (ppb):	3.6
ECD (ppg):	9.6	OWR:	79.5 / 20.5

MUD MATERIALS

Mud Additives	Used
TAX	6,012
Factant	1
BARABLOK	4
CALCIUM CHLORIDE PO	50
BARITE 41	150
MUD ENGINEER	1
DRIL-TREAT	2
GELTONE	11
LIME	15

MUD LOGGING

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

BIT RECORD

Bit#	2	3
S/N	27045	32512
Size (in)	8.75	8.50
Mfg	ULTERRA	BAKER
IADC Type		
Model #	U516M	T606X
Jets	5X18	7X20
Depth In (ft)	5,684	7,220
Depth Out (ft)	7,220	
Bit Rotations	294/314	/
On Btm Hrs Cum	19.00	
Footage Cum (ft)	1,536	
ROP Cum	80.8	0.0
WOB mn/mx (kip)	10 / 37	/
RPM rot/bit	294 / 314	/
Bit HP	1.41	0.89
HSI	1.14	0.42
PSI Drop (psi)	196.24	67.08
Jet Vel (ft/s)	154.40	90.27
Imp Force	440.07	260.00

Grading	I	O	D	L	B	G	O	R
Bit # 2	0	1	CT	G	X	I	NO	BHA
Bit # 3								

CASING

Size(in)	MD(ft)/TVD(ft)		FIT/LOT(ppg)
16.00	70.00 /	70.00	
9.63	1,073.00 /	1,073.00	
5.50	14,301.03 /	6,840.01	

INVENTORY

Item	Inv
OBM DIESEL	8,789
DIESEL	14,082

SOLIDS CONTROL

Skr	Deck 1 Screens	Deck 2 Screens
1	100/100/100/100	
2	140/230/230/230	
3	140/230/230/230	

BHA # 3

Qty	Item Description	ID (in)	OD (in)	Len (ft)	Cum (ft)
1	HUGHES T606X		8.500	1.00	1.00
1	RYAN 1.75° 7/8 6.4 STG FBH (BTS		6.750	29.87	30.87
1	PONY DC	3.250	6.750	15.04	45.91
1	EM TOOL	2.750	6.625	26.41	72.32
1	NMDC	3.250	6.750	30.06	102.38
90	5" D.P.	4.276	5.000	2,821.62	2,924.00
1	AGITATOR	2.500	6.750	13.00	2,937.00
1	SHOCK SUB	2.500	6.750	11.90	2,948.90
504	5" DP	4.276	5.000	4,271.12	7,220.01
				Total Length:	7,220.01

STRING LOADS

On Btm Torque:	10,900
Off Btm Torque:	2,900
Str. Wt. Up:	240
Str. Wt. Down:	170
Str. Wt. Rot.:	190
Max Over Pull:	

BHA PROPERTIES

BHA Hrs:	19
Jar Hrs:	
Cum String Hours:	20
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	305.28	
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): 299 SPP (psi): 2,377

AV (DC): 323 AV (DP): 285

SURVEYS

MD (ft)	Inclination(°)	Azimuth (°)	TVD (ft)	V Section (ft)	+E/-W (ft)	+N/-S (ft)	Dog Leg (°/100ft)
6,444	10.06	179.07	6,380	367.89	543.06	363.61	10.40
6,539	20.19	172.56	6,472	343.29	545.33	338.99	10.80
6,633	27.94	179.95	6,558	305.13	547.45	300.82	8.83
6,727	41.31	184.87	6,635	251.93	544.82	247.63	14.52
6,821	49.63	185.22	6,701	185.19	538.92	180.94	8.85
6,914	56.31	187.15	6,757	111.37	530.87	107.18	7.37
7,008	64.56	183.81	6,803	30.00	523.17	25.87	9.30
7,102	70.19	178.37	6,839	-56.68	521.61	-60.81	8.02

OPERATION DETAILS

FROM	TO	HRS	OP CODE	PHASE	CODE	ACTIVITY	DESCRIPTION
06:00	06:30	0.50	P	DRLPRD	13	TRIP	FINISH TIH TO 5,684' ; WASH 20' TO BOTTOM
06:30	15:30	9.00	P	DRLPRD	07	DRLVERT	DRILL F/ 5,684' - 6,383'
15:30	00:30	9.00	P	DRLPRD	09	DRLCRV	DRILL CURVE F/ 6,383' - 7,220'.
00:30	01:30	1.00	P	DRLPRD	15	CIRC	CIRC. HOLE CLEAN.
01:30	06:00	4.50	P	DRLPRD	13	TRIP	FLOW CHECK. PUMP SLUG & TOH FOR LATERAL ASSEMBLY.

Daily Operations Comments

UTILIZING DIRECTIONAL PLAN #2.

CONFIDENTIAL