



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 06-20-2014					
API # 4238338545 00		24 HRS PROG 0.0 (ft)		TMD 109.0 (ft)		TD TVD 109.0 (ft)		REPT NO 1			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 0.00 (days)		DOL 0.38 (days)	
WB KO DATE		WELL SPUD DATE		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 82,590		DHC: 82,590					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 82,590		TOTAL: 82,590					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°								20.000 in @ 109.0 ft			

CURRENT OPERATIONS: CONTINUE RIGGING UP ON UNIVERSITY 2505 #2 HU

24 HR SUMMARY: R/D ON UNIVERSITY 2505 #1 HM, SKID RIG FORWARD TO THE UNIVESSITY 2505 # 2 HU, AND BEGIN RIG UP

24 HR FORECAST: FINISH RIGGING UP AND PREPAIR TO SPUD WELL

OPERATION SUMMARY

From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	6:00	6.00	R-MOB-DEMOB	RU_RD	PP		CONTINUE RIGGING DOWN ON THE UNIVERSITY 2505 #1 HM AND PREPARE TO SKID THE RIG TO THE UNIVERSITY 2505 #2 HU. (DIESEL TANKS AND LINES TO MUD PITS, BACK OF PITS, C-CAN, V-DOOR,AND CAT WALK, VAC SYSTEM . MOVE ALL GRATINGS AND CONES, ALL ELECTRICAL LINES
6:00	8:00	2.00	R-MOB-DEMOB	RU_RD	PP		RIG DOWN GAS BUSTER, FINISH RIGGING DOWN ELECTRICAL LINES PULL GROUND RODS.
8:00	15:00	7.00	R-MOB-DEMOB	RU_RD	PP		MOVE EQUIPMENT AND SKID RIG . HAD DIFFICULTY SKIDDING DUE TO MUDDY LOCATION. SET AND LEVEL SUB @ 1500 HRS
15:00	18:00	3.00	R-MOB-DEMOB	RU_RD	PP		SET AND LEVEL SUB @ 1500 HRS, WATER TANKS AND PUMPS SET @ 1645 HRS, SCR GENS AND GRASS HOPPER SET @ 1800HRS, RIG UP COOLING LINES, SET TRIP TANK , CHOKE MANIFOLD AND HPU UNIT.
18:00	22:30	4.50	R-MOB-DEMOB	RU_RD	PP		SET IN 3RD PARTY FUEL TANK, BOTTOM DOG HOUSE @ 1830. JUNK BOX, KOPOMY SUIT CASE, @ 1842 HRS, VFD AND C-CAN, SET PRE MIX AND BULK MUD TANKS.
22:30	0:00	1.50	R-MOB-DEMOB		PP		RIG UP WITH CREWS , RUN ELECTRIC LINES FROM PITS, GRASS HOPPER, WATER TANKS, BOTTOM DOG HOUSE, ST-80, BUBLK MUD TANKS. AND WATRER TANKS .TRIP TANK, MUD HOPPER

24.00 = Total Hours Today

06:00 UPDATE

0000-0600 0000-0600 RIG UP WITH CREWS , RUN ELECTRIC LINES FROM PITS, GRASS HOPPER, WATER TANKS, BOTTOM DOG HOUSE, ST-80, BUBLK MUD TANKS. AND WATRER TANKS .TRIP TANK, MUD HOPPER FILL PITS. HOOK UP PREMIX TANK, FLOW LINE TO RESURVE PIT, GAS BUSTER AND LINES, 4" ON CHOKE , 6" ON GAS BUSTER, AIR OUT MUD PUMPS.



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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-20-2014
API # 4238338545 00	24 HRS PROG 0.0 (ft)	TMD 109.0 (ft)	TD TVD 109.0 (ft)	REPT NO 1

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	HORIZON MUD	1	24.00
TOTAL ENERGY SERVICES	1	24.00	BOS SOLUTIONS	2	24.00
PATTERSON	11	132.00			

TOTAL PERSONNEL ON BOARD: 16

TOTAL HOURS ON BOARD: 228

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	479	2636	DIESEL, MUD	gal	0	198

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 06-21-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 109.0 (ft)		TD TVD 109.0 (ft)		REPT NO 2			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS (days)		DOL 1.38 (days)	
WB KO DATE		WELL SPUD DATE		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 57,461		DHC: 140,550					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 57,461		TOTAL: 140,550					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/21/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°								20.000 in @ 109.0 ft			

CURRENT OPERATIONS: SPUDDING WELL @ 108'

24 HR SUMMARY: FINISH RIGGING UP, BUILD SPUD MUD FOR SWEEPS. WELD ON CONDUCTOR. LAY OUT BHA AND STRAP SAME.

24 HR FORECAST: FINISH STRAPPING BHA, SUPD WELL AND DRILL TO 575' AS PER CSG TALLY . CIRC HOLE CLEAN POOH AND CMT SURFACE CSG.

OPERATION SUMMARY

From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	6:00	6.00	R-MOB-DEMOB	RU_RD	PP		0000-0600 RIG UP WITH CREWS , RUN ELECTRIC LINES FROM PITS, GRASS HOPPER, WATER TANKS, BOTTOM DOG HOUSE, ST-80, BULK MUD TANKS. AND WARNER TANKS .TRIP TANK, MUD HOPPER FILL PITS. HOOK UP PREMIX TANK, FLOW LINE TO RESERVE PIT, GAS BUSTER AND LINES, 4" ON CHOKE, 6" ON GAS BUSTER, AIR OUT MUD PUMPS.
6:00	18:00	12.00	R-MOB-DEMOB	RU_RD	PP		FINISH RIGGING UP BACK YARD: BULK TANKS, SET TRASH PUMPS, FRACK TANKS AND LINES/ INSPECT DRAWWORKS AND REPAIR CHAIN LINKS ON SAME. WORK ON CRI AND CHANGING OUT SAVER SUB ON TDS.
18:00	21:00	3.00	R-MOB-DEMOB	RU_RD	PP		FINISH CHANGING SAVER SUB, RIG UP OVER FLOW LINES AND JET LINES ON MUD PITS, INSTALL SHAKER SCREENS,, WORK ON C.R.I. TEST MUD MUMPS TO 1000 PSI UP TO MANUAL I-BOP ON TDS. INSTALL MOUSE HOLE.
21:00	0:00	3.00	S-DRL	RU_RD	PP		ACCEPT RIG ON DAY WORK.
							INSTALL CONDUCTOR PIPE AND CENTER UP , INSTALL FLOW LINE DRESSER SLEEVE. LOAD RACKS AND STRAP BHA.

24.00 = Total Hours Today

06:00 UPDATE

0000-0600 0000-0300 FINISH STRAPPING BHA, AND MOVE CSG TO DRILLER SIDE PIPE RACKS.
0300-0500 PICK UP 8" DC MAKE UP BIT SUB, SHOCK SUB W/ FLOAT AND BAFFLE PLATE, AND 17.25" IBS
0500-0600 P/U FIRST 2 DC'S & SPUD WELL @ 0600 HRS AND DRILL TO 0600 DEPTH 108'

NOTE: CALLED TRRC WITH INTENT TO SPUD, SPOKE TO IJUANA OPERATOR #0065 @0315 HRS WAS TOLD TO CALL BACK WITH IN 8 HRS OF RUNNING CSG.



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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-21-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 109.0 (ft)	TD TVD 109.0 (ft)	REPT NO 2

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	TOTAL ENERGY SERVICES	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
PATTERSON	11	132.00			

TOTAL PERSONNEL ON BOARD: 16

TOTAL HOURS ON BOARD: 228

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	413	9346	DIESEL, MUD	gal	0	198

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 06-22-2014					
API # 4238338545 00		24 HRS PROG 306.0 (ft)		TMD 415.0 (ft)		TD TVD 415.0 (ft)		REPT NO 3			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 0.77 (days)		DOL 2.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS DHC: 2,595,500 DCC: CWC: Others: TOTAL: 2,595,500		DAILY COSTS DHC: 39,031 DCC: CWC: Others: TOTAL: 39,031		CUMULATIVE COSTS DHC: 178,623 DCC: CWC: Others: TOTAL: 178,623					
DESCRIPTION:											
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY MD 0.0 (ft) INC 0.00° AZM 0.00°		LAST CSG SHOE TEST (EMW)		LAST CASING 20.000 in @ 108.0 ft		NEXT CASING 13.375 in @ 550.0 ft					
CURRENT OPERATIONS: WORKING ON TDS ELECTRICAL PROBLEM.											
24 HR SUMMARY: P/U BHA, AND SPUD @ 0530 HRS. DRILL F/108' T/ 206',WELD CRACK ON CONDUCTOR PIPE LEAKING INTO CELLER,DRILL F/108' T/ 206',C/O BAD DP AND X/O'S C/O TDS DIES, TAKE SURVEY, DRLG T/415'.											
24 HR FORECAST: CONT T/ DRILL TO TD @ 575'. POOH. R/U AND RUN 13 3/8" SUFACE CSG. CMT SAME . INSTALL "A" SECTION WELL HEAD AND N/U BOPE											

OPERATION SUMMARY

From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	3:00	3.00	S-DRL	RU_RD	PP		0000-0300 FINISH STRAPPING BHA, AND MOVE CSG TO DRILLER SIDE PIPE RACKS. 0300-0500 PICK UP 8" DC MAKE UP BIT SUB, SHOCK SUB W/ FLOAT AND BAFFLE PLATE, AND 17.25" IBS 0500-0600 P/U FIRST 2 DC'S & SPUD WELL @ 0600 HRS AND DRILL TO 0600 DEPTH 108'
3:00	5:30	2.50	S-DRL	TRIP	PP		0300-0500 PICK UP 8" DC MAKE UP BIT SUB, SHOCK SUB W/ FLOAT AND BAFFLE PLATE, AND 17.25" IBS. P/U FIRST 2 DC'S & SPUD WELL @ 0530 HRS AND DRILL TO DEPTH 108'
5:30	5:30	0.00	S-DRL	M_SPUD	PP		SPUD WELL @ 0500 HRS
5:30	11:30	6.00	S-DRL	DRLG	PP		DRILL F/108' T/ 206'
11:30	12:30	1.00	S-DRL	WOO	PN	CS	WELD CRACK ON CONDUCTOR PIPE LEAKING FLUID INTO CELLER
12:30	13:30	1.00	S-DRL	DRLG	PP		DRILL F/108' T/ 267'
13:30	14:00	0.50	S-DRL	WOO	PN	CS	WELD CRACK ON CONDUCTOR PIPE LEAKING FLUID INTO CELLER
14:00	15:30	1.50	S-DRL	RIGSER	PN	DP	REPLACE JOINT OF DP, AND CROSSOVERS 6 5/8 REG X 4.5 XH AND 4.5 XH TO 4.5 IF.
15:30	16:30	1.00	S-DRL	DRLG	PP		DRILL F/267' T/ 297'
16:30	17:30	1.00	S-DRL	RIGSER	PP		PERFORM RIG SURVICE , C/O DIES ON TOP DRIVE UNABLE TO BREAK CONNECTION
17:30	20:00	2.50	S-DRL	DRLG	PP		AFTER CHANGING OUT TOP DRIVE GRABBER DIES STILL UNABLE TO BREAK CONNECTION W/ 60,000LBS TORQUE, HAD WELDER HEAT UP CONNECTION TO BREAK OUT.
20:00	21:00	1.00	S-DRL	DEVSUR	PP		PULLED UP TO. 237' RUN WIRE LINE SURVEY @ 237' 1.29° NOTE: MISS SHOT SURVEYS
21:00	0:00	3.00	S-DRL	DRLG	PP		DRLG F/297' T/575' TD SURFACE SECTION.

24.00 = Total Hours Today

06:00 UPDATE

0000-0600 0000-0030 DRLG FM 415' TO 446'
0030-0430 DOWN TIME S.C.R HOUSE GIVING GROUND FAULT ALARMS, TROUBLE SHOT AND FOUND PIG TAIL SHORTED ON TRACTION MOTOR ON TDS. ELECTRICIAN IN ROUTE.
0430-0600 ELECTRITION ARRIVED @ 0430- HOURS. MAKING REPAIRS TO TDS.



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-22-2014
API # 4238338545 00	24 HRS PROG 306.0 (ft)	TMD 415.0 (ft)	TD TVD 415.0 (ft)	REPT NO 3

BIT DATA

BIT / RUN	BIT SIZE (in)	MANUFACTURER	TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN	I-O-D-L-B-G-O-R
1 / 1	17.500	Hughes	DP605S	7036975	10x15	108.00 / 06-22-2014	-----

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
1/1	/24.0	/110	657.21	700	115	11.00	306.0	27.8	11.00	306.0	27.8

MOTOR OUTPUT

RPV:	ROTARY CURRENT: 110	TOTAL RPM: 110
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LCM:	MUD PROPERTIES	MUD TYPE:
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%)/(lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)

				PP	DAILY COST	0	CUM COST	0	%OIL		% H2O	
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BHA	1	JAR S/N	BHA / HOLE CONDITIONS	JAR HRS	BIT	1
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BHA WT BELOW JARS	STRING WT UP	STRING WT DN	STRING WT ROT	TORQUE/UNITS	BHA LENGTH
(kip)	91.0 (kip)	90.0 (kip)	90.0 (kip)	(ft-lbf)	593.09 (ft)

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Drill Collar	6.5" DC	12	357.54	6.500	2.375		4-1/2 XH
Crossover Sub	XO SUB	1	3.10	8.000	2.375		4-1/2 XH
Drill Collar	8" DC	6	176.98	6.250	2.875		4-1/2 XH
Integral Blade Stabilizer	17 1/2" IBS	1	8.00	8.000	3.000	8.750	6-5/8" Reg
Drill Collar	8" DC	1	30.01	8.000	2.875		6-5/8" Reg
Shock Sub	SHOCK SUB	1	13.68	8.000	2.750		6-5/8" Reg
Bit Sub	BIT SUB	1	1.98	8.750	2.875		6-5/8" Reg
PDC Bit	PDC BIT	1	1.80	17.500			7-5/8" Reg

MUD PUMPS/HYDRAULICS					SPR		
	STROKE	SPM	LINER	FLOW RATE	AV(DP):	SPM	PPSR
# 1	12.00	77.00	6.000	322.3	AV(DC):		
# 2	12.00	80.00	6.000	334.9	HP: 0.183 (hp/in ²)		

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	AIP	1	24.00
TOTAL ENERGY SERVICES	1	24.00	BOS SOLUTIONS	2	24.00
PATTERSON	11	132.00			

TOTAL PERSONNEL ON BOARD: 16

TOTAL HOURS ON BOARD: 228

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	479	8867	DIESEL, MUD	gal	0	198



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Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-22-2014
API # 4238338545 00	24 HRS PROG 306.0 (ft)	TMD 415.0 (ft)	TD TVD 415.0 (ft)	REPT NO 3

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION
		No incidents reported in last 24 hours.



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 06-23-2014					
API # 4238338545 00		24 HRS PROG 120.0 (ft)		TMD 535.0 (ft)		TD TVD 534.9 (ft)		REPT NO 4			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 1.77 (days)		DOL 3.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS DHC: 2,595,500 DCC: CWC: Others: TOTAL: 2,595,500		DAILY COSTS DHC: 195,760 DCC: CWC: Others: TOTAL: 195,760		CUMULATIVE COSTS DHC: 374,383 DCC: CWC: Others: TOTAL: 374,383					
DESCRIPTION:											
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/23/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY MD 530.0 (ft) INC 0.67° AZM 0.00°				LAST CSG SHOE TEST (EMW)		LAST CASING 20.000 in @ 108.0 ft		NEXT CASING 13.375 in @ 550.0 ft			
CURRENT OPERATIONS: LAYING OUT WAITING ON EXPRESS CSG AND LAYDOWN CREWS.											
24 HR SUMMARY: DRLG FM 415' TO 446' DOWN TIME DUE TO SHORT IN TDS. REMOVE & REPLACE MAN-RIDER PER PATTERSON SAFETY MAN & DRILLING SUPER. ROTATE F/446' T/535", CIRC, HOLE CLEAN, RUN WL SURVEY. POOH. DROP 8" DC IN HOLE .											
24 HR FORECAST: FISH OUT 8" DRILL COLLAR. R/U AND RUN 13 3/8" SURFACE CSG AND CMT SAME CUT OFF AND INSTALL WELLHEAD AND N/U TEST BOPE.											

OPERATION SUMMARY

From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	0:30	0.50	S-DRL	DRLG	PP		DRLG FM 415' TO 446'
0:30	4:30	4.00	S-DRL	WOO	PN	EF	DOWN TIME S.C.R HOUSE GIVING GROUND FAULT ALARMS, TROUBLE SHOT AND FOUND PIG TAIL SHORTED ON TRACTION MOTOR ON TDS. ELECTRICIAN IN ROUTE.
4:30	12:30	8.00	S-DRL	WOO	PN	EF	ELECTRITION ARRIVED @ 0430- HOURS. MAKING REPAIRS TO TDS.
12:30	14:30	2.00	S-DRL	WOO	PN	EF	REMOVE & REPLACE MAN-RIDER PER PATTERSON SAFETY MAN & DRILLING SUPER.
14:30	15:00	0.50	S-DRL	DRLG	PP		ROTATE F/446' T/475'
15:00	16:00	1.00	S-DRL	RIGSER	PN	TD	SERVICE TOP DRIVE AFTER REPAIRS
16:00	18:00	2.00	S-DRL	DRLG	PP		ROTATE F/475' T/535'
18:00	19:00	1.00	S-DRL	CIRC	PP		CIRCULATE AND PUMP SWEEPS
19:00	20:00	1.00	S-DRL	DEVSUR	PP		TOOK WIRE LINE SURVEY. MIS SHOT ON FIRST RUN. SECOND RUN .67 DEGREE
20:00	23:00	3.00	S-DRL	TRIP	PP		POOH L/D IBS. DROPPED STAND OF 8" DRILL COLLARS DOWN HOLE. WHEN CREW L/D IBS THEY MADE THE 8" DC BACK UP (BACKING OUT OF THE LIFT SUB) PULLED OUT OF THE SLIPS TO RACK STAND DERRICKMAN SAW THE SUB WHEN IT REACHED THE MONKEY BOARD HE MOTION TO SLACK BACK OFF AND TO TIGHTEN SUB WHEN BACK TO 20' ABOVE FLOOR DC PARTED FROM LIFT SUB AND FELL DOWN HOLE. FISH ASSY: 8" DC 30.41 8" DC 29.75 8" DC 30.01 SHOCK SUB 13.68 BIT SUB 1.98 17.5' BIT 1.80 TOTAL LENGTH 107.63'
23:00	0:00	1.00	S-DRL	WOO	PN	FS	CONTACT SCHLUMBERGER FISHING TOOL WOT

24.00 = Total Hours Today



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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-23-2014
API # 4238338545 00	24 HRS PROG 120.0 (ft)	TMD 535.0 (ft)	TD TVD 534.9 (ft)	REPT NO 4

06:00 UPDATE

0000-0600 0000-0130 WAS GOING TO ATTEMPT TO FISH USING 6 5/8" REG SUB ON DRILL PIPE. PATTERSON WILL NOT ALLOW DUE TO WAITING ON TECHNITION TO INSPECT TORQUE GAUGES ON TONGS AND ST-80.
0130-0300 TONG TORQUE GAUGE INSPECTOR ARRIVED ON LOCATION AT 0130 AND INSPECTION FOUND DRILLER SIDE TONG GAUGE TO BE BAD.
0300-0430 PICK UP 6 5/8 REG X 4 1/2" XH, 4 1/2" XH X 4 1/5 IF CROSS OVERS AND TRIP IN HOLE WITH 5" DRILL PIPE TAG FISH @ 430' LATCH ON FISH AND BREAK CIRCULATION.
0430-0600 POOH WITH FISH.

DOWN TIME DUE TO FISHING F/2330-0500 HRS

BIT DATA

BIT / RUN	BIT SIZE (in)	MANUFACTURER	TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN	I-O-D-L-B-G-O-R
1 / 1	17.500	Hughes	DP605S	7036975	10x15	108.00 / 06-22-2014	-----

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
1/1	/25.0	/110	703.26	835	132	3.00	120.0	40.0	14.00	426.0	30.4

MOTOR OUTPUT

RPV:	ROTARY CURRENT: 110	TOTAL RPM: 110
LCM:	MUD PROPERTIES	MUD TYPE: Freshwater Gel

VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
28.00	2.00/2	2/3		/10.38			9.00/0.10	0.10/0.10	500	240			10.38

Density (ppg)	8.60		PP	DAILY COST	0	CUM COST	0	%OIL	% H2O	93.70
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BHA	1	JAR S/N	BHA / HOLE CONDITIONS	JAR HRS	BIT	1
-----	---	---------	-----------------------	---------	-----	---

BHA WT BELOW JARS	STRING WT UP	STRING WT DN	STRING WT ROT	TORQUE/UNITS	BHA LENGTH
(kip)	92.0 (kip)	90.0 (kip)	91.0 (kip)	(ft-lbf)	593.09 (ft)

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Drill Collar	6.5" DC	12	357.54	6.500	2.375		4-1/2 XH
Crossover Sub	XO SUB	1	3.10	8.000	2.375		4-1/2 XH
Drill Collar	8" DC	6	176.98	6.250	2.875		4-1/2 XH
Integral Blade Stabilizer	17 1/2" IBS	1	8.00	8.000	3.000	8.750	6-5/8" Reg
Drill Collar	8" DC	1	30.01	8.000	2.875		6-5/8" Reg
Shock Sub	SHOCK SUB	1	13.68	8.000	2.750		6-5/8" Reg
Bit Sub	BIT SUB	1	1.98	8.750	2.875		6-5/8" Reg
PDC Bit	PDC BIT	1	1.80	17.500			7-5/8" Reg

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	530.0	0.67	0.00	529.9	7.69	0.00	7.69	0.21

MUD PUMPS/HYDRAULICS					SPP: 835 (psi) AV(DP): AV(DC): HP: 0.224 (hp/in ²)	SPR		
	STROKE	SPM	LINER	FLOW RATE			SPM	PPSR
# 1	12.00	84.00	6.000	351.6				
# 2	12.00	84.00	6.000	351.6				



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-23-2014
API # 4238338545 00	24 HRS PROG 120.0 (ft)	TMD 535.0 (ft)	TD TVD 534.9 (ft)	REPT NO 4

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
TOTAL ENERGY SERVICES	1	24.00	AIP	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
PATTERSON	11	132.00			

TOTAL PERSONNEL ON BOARD: 16

TOTAL HOURS ON BOARD: 228

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	719	8148				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 06-24-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 535.0 (ft)		TD TVD 534.9 (ft)		REPT NO 5			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 2.77 (days)		DOL 4.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 104,794		DHC: 485,115					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 104,794		TOTAL: 485,115					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 530.0 (ft) INC 0.67° AZM 0.00°						20.000 in @ 108.0 ft		13.375 in @ 550.0 ft			

CURRENT OPERATIONS: NIPPOING UP CHOKE AND KILL LINES , TEST BOPE.

24 HR SUMMARY: MAKE RIG REPAIRS TO TONG GAUGES, FISH DC FROM WELL. R/U AND RUN SURFACE CSG. CMT CSG, CUT OFF CONDUCTOR

24 HR FORECAST: INSTALL WELL HEAD N/U BOPE TEST BOPE, P/U BHA AND TIH TO DRILL INTERMEDIATE HOLE SECTION

OPERATION SUMMARY

From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	1:30	1.50	S-DRL	WOO	PN	FM	MADE ATTEMPT ATTEMPT TO FISH USING 6 5/8" REG SUB ON DRILL PIPE. PATTERSON WILL NOT ALLOW DUE TO WAITING ON TECHNITION TO INSPECT TORQUE GAUGES ON TONGS AND ST-80.
1:30	3:00	1.50	S-DRL	WOO	PN	FM	TONG TORQUE GAUGE INSPECTOR ARRIVED ON LOCATION AT 0130 AND INSPECTION FOUND DRILLER SIDE TONG GAUGE TO BE BAD.
3:00	4:30	1.50	S-DRL	RIH	PN	FM	PICK UP 6 5/8 REG X 4 1/2" XH, 4 1/2" XH X 4 1/5 IF CROSS OVERS AND TRIP IN HOLE WITH 5" DRILL PIPE TAG FISH @ 430' LATCH ON FISH AND BREAK CIRCULATION.
4:30	6:00	1.50	S-DRL	TRIP	PN	FM	POOH WITH FISH
6:00	7:00	1.00	S-DRL	TRIP	PP		LAY OUT 8" DC BIT & SHOCK SUB
7:00	9:30	2.50	S-DRL	SFTY	PP		HOLD SAFETY MEETING & R/U CASING CREW
9:30	10:30	1.00	S-DRL	RIGSER	PP		RIG SERVICE
10:30	14:30	4.00	S-CSG	R_PCSG	PP		RUN 13 3/8" CASING AS FOLLOWS:TEXAS PATTERN SHOE @ .60, 1-FLOAT JOINT @42.10, NON-ROTATING FLOAT COLLAR @ 1.40 & 12 JNTS @ 494.83 TOTAL RUN =538.23
14:30	16:30	2.00	S-CMT	CMTPRI	PP		SWAP LINES TO CREST TEST LINES T/ 1500 PSI OK, PUMP 10 BBL WATER SPACER, 550 SXS/ 132 BBLS CLASS C CaCl 2% @ 14.8 PPG 1.35 YIELD W/ADDITEVES, DISPLACED W/ 78 BBLS OF FRESH WATER, RETEURNED 12 BBLS / 50 sks OF CMT T/ SURFACE, BUMPED PLUG @ 800 PSI W/PARTIAL RETURNS ,PLUG DOWN @16:30 PM ON 6-24-2014, FLOATS HELD
16:30	20:30	4.00	S-CMT	WOC	PP		WOC FLUSH STACK JET PITS. REMOVE DRESSER SLEEVE FROM FLOW LINE.
20:30	23:30	3.00	S-NUP	RU_RD	PP		CUT OFF CONDUCTOR AND MAKE ROUGH CUT ON 13 3/8" CSG. SET WELL HEAD AND TEST VOID TO 1000 PSI 10 MIN GOOD TEST.
23:30	0:00	0.50	S-NUP	RU_RD	PP		INSTALL SPACER SPOOLS.

24.00 = Total Hours Today

06:00 UPDATE

0000-0600 0000-0100 ATTEMPT TO RAISE STACK AND STACK WEIGHT WAS PULLING GEN POLE TRUCK ACROSS LOCATION DUE TO BEING WET MUDDY LOCATION. REMOVE V DOOR AND MOVE CAT WALK TO HAVE DIRECT PULL WITH GEN TRUCK.
0100-0200 RAISE BOP STACK WITH ASSISTANCE OF GEN POLE TRUCK.
0200-0530 N/U BOPE AND ASSOCIATED EQUIPMENT



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-24-2014	
API # 4238338545 00	24 HRS PROG (ft)	TMD 535.0 (ft)	TD TVD 534.9 (ft)	REPT NO 5	

BIT DATA

BIT / RUN	BIT SIZE (in)	MANUFACTURER	TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN	I-O-D-L-B-G-O-R
1 / 1	17.500	Hughes	DP605S	7036975	10x15	108.00 / 06-22-2014	0-0-NO-A-X-I-NO-TD

LCM:			MUD PROPERTIES							MUD TYPE:		Freshwater Gel				
VIS (s/qt)	PV/YP (cp) / (lb/100ft²)		GELS (lb/100ft²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)		OIL/WAT (%)	% SAND/MBT (%)/(lbm/bbl)		pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
28.00	2.00/2		2/3		/10.18					9.00/0.10	0.10/0.10	500	240			10.18
Density (ppg)	8.60				PP	DAILY COST		0	CUM COST		0	%OIL		% H2O		93.80

BHA	1	JAR S/N		BHA / HOLE CONDITIONS					JAR HRS		BIT	
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH		
(kip)		(kip)		(kip)		(kip)		(ft-lbf)		593.09 (ft)		

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Drill Collar	6.5" DC	12	357.54	6.500	2.375		4-1/2 XH
Crossover Sub	XO SUB	1	3.10	8.000	2.375		4-1/2 XH
Drill Collar	8" DC	6	176.98	6.250	2.875		4-1/2 XH
Integral Blade Stabilizer	17 1/2" IBS	1	8.00	8.000	3.000	8.750	6-5/8" Reg
Drill Collar	8" DC	1	30.01	8.000	2.875		6-5/8" Reg
Shock Sub	SHOCK SUB	1	13.68	8.000	2.750		6-5/8" Reg
Bit Sub	BIT SUB	1	1.98	8.750	2.875		6-5/8" Reg
PDC Bit	PDC BIT	1	1.80	17.500			7-5/8" Reg

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	TOTAL ENERGY SERVICES	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	2	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 18

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	719	7429	DIESEL, MUD	gal	0	198

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU										DATE 06-25-2014			
API # 4238338545 00		24 HRS PROG (ft)		TMD 535.0 (ft)		TD TVD 534.9 (ft)		REPT NO 6					
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 3.77 (days)		DOL 5.38 (days)			
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD			
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO			
AFE # 11-13-0422-DH		AFE COSTS DHC: 2,595,500 DCC: CWC: Others: TOTAL: 2,595,500		DAILY COSTS DHC: 60,862 DCC: CWC: Others: TOTAL: 60,862		CUMULATIVE COSTS DHC: 524,477 DCC: CWC: Others: TOTAL: 524,477							
DESCRIPTION:													
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/25/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE			
LAST SURVEY MD 530.0 (ft) INC 0.67° AZM 0.00°				LAST CSG SHOE TEST (EMW)		LAST CASING 20.000 in @ 108.0 ft		NEXT CASING 13.375 in @ 550.0 ft					
CURRENT OPERATIONS: P/U DC'S & TAG FLOAT SHOE @ 493', DRILL FLOAT EQUIP													
24 HR SUMMARY: N/U BOP'S, TEST BOP'S T/250 LOW 3000 HIGH. HELD DRUG TEST ON LOCATION. TEST BOP'S AND ASSOCIATED EQUIPMENT. LAY OUT STRAP AND P/U DIRECTION ASSEMBLY.													
24 HR FORECAST: TIH TEST CSG DRILL OUT AND DRILL 12.25" INTERMEDIATE VERTICAL HOLE SECTION.													
OPERATION SUMMARY													
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY						
0:00	8:30	8.50	S-NUP	BOPS	PP		N/U BOPS & ALL RELATED EQUIPMENT, R/D SAME						
8:30	14:30	6.00	S-NUP	BOPS	PP		TEST BOP'S, CHOCK & ALL RELATED VALVES T/3000H, 250L						
14:30	15:30	1.00	S-NUP	BOPS	PP		PERFORM UA TEST WITH ALL PERSONNEL ON LOCATION						
15:30	19:00	3.50	S-NUP	BOPS	PP		TEST BOP'S, CHOCK & ALL RELATED VALVES T/3000H, 250L						
19:00	20:00	1.00	S-NUP	BOPS	PP		RIG DOWN TEST EQUIPMENT						
20:00	21:00	1.00	S-NUP	BOPS	PP		RIG UP FLAIR LINES OFF GAS BUSTER AND CHOKE MANIFOLD						
21:00	0:00	3.00	S-DRL	TRIP	PP		L/O DIRECTIONAL BHA ON RACKS AND STRAP DC'S TO BE PICKED UP .						
24.00 = Total Hours Today													
06:00 UPDATE													
0000-0600 0000-0230 P/U BHA FROM RACKS AND MAKE UP RUNNING IN THE HOLE. INSTALL MWD PROBE. SCRIBE MUD MOTOR TEST MWD TOOL AND MOTOR GOOD TEST 0230-0300 TEST CSG TO 500 PSI 30 MIN GOOD TEST 0300-0600 MAKE UP BIT AND TRIP IN HOLE TO 493' PICKING UP 6.5" DC'S FROM PIPE RACKS ON THE GROUND, DRILL FLOAT EQUIP													
BIT DATA													
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R				
2 / 1	12.250	Reed-Hycalog		SKH1716M -12	A197124	7x13	535.00 / 06-26-2014		-----				
LCM: MUD PROPERTIES MUD TYPE: Brine													
VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
29.00	2.00/2	2/3											
Density (ppg)	9.60			PP		DAILY COST	0	CUM COST	0	%OIL		% H2O	97.00



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME										DATE							
UNIVERSITY 2505 2HU										06-25-2014							
API #			24 HRS PROG			TMD			TD TVD			REPT NO					
4238338545 00			(ft)			535.0 (ft)			534.9 (ft)			6					
BHA		2		JAR S/N		BHA / HOLE CONDITIONS					JAR HRS		BIT				
BHA WT BELOW JARS			STRING WT UP			STRING WT DN			STRING WT ROT			TORQUE/UNITS		BHA LENGTH			
(kip)			(kip)			(kip)			(kip)			(ft-lbf)		826.07 (ft)			
COMPONENT TYPE		ITEM DESCRIPTION					NO JTS	LENGTH	O.D	I.D	CONN SIZE		CONN TYPE				
PDC Bit		12.25" PDC					1	1.50	12.250				6-5/8" Reg				
Bent Housing		MUD MOTOR					1	32.39	8.000				6-5/8" Reg				
Integral Blade Stabilizer		12 1/8" IBS					1	8.10	8.000	2.875			6-5/8" Reg				
MWD Tool		UBHO					1	3.49	7.875	3.000			6-5/8" Reg				
Non-Mag Drill Collar		NMDC					2	59.65	8.125	2.875			6-5/8" Reg				
Integral Blade Stabilizer		12 1/8" IBS					1	7.90	8.000	2.992			6-5/8" Reg				
Drill Collar		8" DC					6	175.90	8.000	2.992			6-5/8" Reg				
Crossover Sub		XO					1	3.10	7.750	2.500			4-1/2 XH				
Drill Collar		6.5" DC					12	531.04	6.312	2.062			4-1/2 XH				
Crossover Sub		XO					1	3.00	6.312	2.500			4-1/2 IF				
CASING																	
S/T		DESCRIPTION				SIZE		WEIGHT		GRADE		SETTING DEPTH					
00		SURFACE				13.375		48.00		H-40		535.0					
PERSONNEL DATA																	
COMPANY				QTY		HRS		COMPANY				QTY		HRS			
TOTAL ENERGY SERVICES				1		24.00		HORIZON MUD				1		24.00			
EPI CONSULTING				1		24.00		BOS SOLUTIONS				2		24.00			
MS DIRECTIONAL				2		24.00		PATTERSON				11		132.00			
TOTAL PERSONNEL ON BOARD: 18																	
TOTAL HOURS ON BOARD: 252																	
MATERIALS/CONSUMPTION																	
ITEM		UNITS		USAGE		ON HAND		ITEM		UNITS		USAGE		ON HAND			
DIESEL, RIG FUEL		gal		480		6949		DIESEL, MUD		gal		0		198			
SAFETY DRILLS																	
RAMS (psi)		ANNULARS (psi)		CASING		LAST BOP FUNCTION		LAST BOP PRESSURE TEST		NEXT BOP PRESS TEST		FIRE DRILL		H2S DRILL		ABND. DRILL	
3000		06-25-2014 / 2000				06-25-2014		06-25-2014		07-09-2014							
INCIDENT REPORT																	
INCIDENTS TYPE		LOST TIME? NO				INCIDENTS DESCRIPTION											
No incidents reported in last 24 hours. HELD RANDOM DRUG TEST ON LOCATION																	



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 06-26-2014				
API # 4238338545 00		24 HRS PROG 1,455.0 (ft)		TMD 1,990.0 (ft)		TD TVD 1,989.9 (ft)		REPT NO 7			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 4.77 (days)		DOL 6.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 63,735		DHC: 588,212					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 63,735		TOTAL: 588,212					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/27/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 2,384.0 (ft) INC 0.40° AZM 146.40°						13.375 in @ 535.0 ft		9.625 in @ 7,425.0 ft			
CURRENT OPERATIONS: DRLG INT @ 2590'											
24 HR SUMMARY: P/U BHA AND TIH, TEST CSG T/ 500 PS PASSED, DRILL OUT SHOE TRACK AND DRILL AHEAD TO MIDNIGHT DEPTH OF 1990'											
24 HR FORECAST: DRILL T/3200' ,DISPLACE HOLE WITH SPRAYBERRY MUD AND CONTINUE DRLG AHEAD INTERMEDIATE HOLE SECTION.											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	2:30	2.50	S-DRL	TRIPBHA	PP		M/U DIRECTIONAL BHA, SCRIBE & TEST				
2:30	3:00	0.50	S-CSG	TEST	PP		TEST CSG T/500 PSI = GOOD				
3:00	7:30	4.50	S-DRL	TRIPBHA	PP		P/U DC'S FROM CATWALK & TIH T/471' (TAG CMT @ 471')				
7:30	8:00	0.50	S-DRL	CIRC	PP		DISP HOLE W/ BRINE WATER				
8:00	10:00	2.00	S-DRL	DOCMT	PP		DRILL CMT & FLOAT EQUIP T/535'				
10:00	15:30	5.50	INT-DRL	DRLG	PP		DRILL F/535 - T/1145 (610' @ 110'/HR, GPM-650, WOB-25, RPM-80)				
15:30	16:30	1.00	INT-DRL	RIGSER	PP		RIG SERVICE				
16:30	0:00	7.50	INT-DRL	DRLG	PP		DRILL F/1145 - T/1990 (845' @ 112'/HR, GPM-650, WOB-25, RPM-70)				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 0000-0600 DRILL F/1990 - T/2590' (600" @ 100'/HR, GPM-650, WOB-25, RPM-70, LAST SURVEY @ 2384', .4 INC, 146.4 AZ)											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
2 / 1	12.250	Reed-Hycalog		SKHI716M -12	A197124	7x13	535.00 / 06-26-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
2/1	/32.0	/80	686.52	2400	517	13.00	1,455.0	111.9	13.00	1,455.0	111.9
MOTOR OUTPUT											
RPV: 0.17rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 187			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				06-26-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	1,455.0 (ft)	1,990.0 (ft)	1,989.9 (ft)	7

LCM:	MUD PROPERTIES										MUD TYPE: Brine
------	----------------	--	--	--	--	--	--	--	--	--	-----------------

VIS (s/qt)	PV/YP (cp) / (lbf/100ft ²)	GELS (lbf/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
30.00	2.00/1	1/2		/12.30			10.00/0.10	0.10/0.20	149,000				5.96
Density (ppg)	9.60			PP		DAILY COST	0	CUM COST	0	%OIL		% H2O	87.70

BHA	2	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	2
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		115.0 (kip)		115.0 (kip)		115.0 (kip)		(ft-lbf)		826.07 (ft)	

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Crossover Sub	XO	1	3.00	6.312	2.500		4-1/2 IF
Drill Collar	6.5" DC	12	531.04	6.312	2.062		4-1/2 XH
Crossover Sub	XO	1	3.10	7.750	2.500		4-1/2 XH
Drill Collar	8" DC	6	175.90	8.000	2.992		6-5/8" Reg
Integral Blade Stabilizer	12 1/8" IBS	1	7.90	8.000	2.992		6-5/8" Reg
Non-Mag Drill Collar	NMDC	2	59.65	8.125	2.875		6-5/8" Reg
MWD Tool	UBHO	1	3.49	7.875	3.000		6-5/8" Reg
Integral Blade Stabilizer	12 1/8" IBS	1	8.10	8.000	2.875		6-5/8" Reg
Bent Housing	MUD MOTOR	1	32.39	8.000			6-5/8" Reg
PDC Bit	12.25" PDC	1	1.50	12.250			6-5/8" Reg

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	2,384.0	0.40	146.40	2,383.8	-4.36	-4.46	-4.36	0.12
NORMAL	2,197.0	0.60	159.90	2,196.9	-2.90	-5.15	-2.90	0.07
NORMAL	2,008.0	0.50	167.40	2,007.9	-1.17	-5.67	-1.17	0.18
NORMAL	1,819.0	0.80	183.10	1,818.9	0.96	-5.78	0.96	0.12
NORMAL	1,630.0	1.00	189.70	1,629.9	3.90	-5.43	3.90	0.26
NORMAL	1,441.0	0.60	211.90	1,440.9	6.36	-4.63	6.36	0.28
NORMAL	1,254.0	0.10	251.10	1,253.9	7.25	-3.96	7.25	0.03
NORMAL	1,066.0	0.10	215.10	1,065.9	7.44	-3.71	7.44	0.33
NORMAL	972.0	0.40	241.10	971.9	7.66	-3.38	7.66	0.28
NORMAL	877.0	0.60	261.80	876.9	7.89	-2.59	7.89	0.11
NORMAL	782.0	0.70	262.50	781.9	8.04	-1.53	8.04	0.28
NORMAL	624.0	0.60	254.20	623.9	8.11	-0.47	8.11	1.08

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0

MUD PUMPS/HYDRAULICS					SPP: 2400 (psi)	SPR	
	STROKE	SPM	LINER	FLOW RATE	AV(DP):		SPM
# 1	12.00	82.00	6.000	343.3	AV(DC):		PPSR
# 2	12.00	82.00	6.000	343.3	HP: 1.756 (hp/in ²)		



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-26-2014
API # 4238338545 00	24 HRS PROG 1,455.0 (ft)	TMD 1,990.0 (ft)	TD TVD 1,989.9 (ft)	REPT NO 7

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	TOTAL ENERGY SERVICES	1	24.00
EPI CONSULTING	1	24.00	MS DIRECTIONAL	2	24.00
BOS SOLUTIONS	2	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 18

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	989	13,180	DIESEL, MUD	gal	0	198

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 06-27-2014				
API # 4238338545 00		24 HRS PROG 1,360.0 (ft)		TMD 3,350.0 (ft)		TD TVD 3,349.8 (ft)		REPT NO 8			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 5.77 (days)		DOL 7.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 39,687		DHC: 627,899					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 39,687		TOTAL: 627,899					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/27/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 3,512.0 (ft) INC 0.90° AZM 112.90°						13.375 in @ 535.0 ft		9.625 in @ 7,425.0 ft			
CURRENT OPERATIONS: DRILLING AT 3805' LAST SURVEY @3512', .9 INC. 112.9 AZM											
24 HR SUMMARY: DRLG F/1990' T/ 2685' . REPAIR PUMPS, DRLG 2685' T/3001' REPAIR MUD PUMPS. DRLG F/ 3001 T 3195' JET PITS AND DISPLACE BRINE WITH SPREYBERRY MUD. DRLG T/ 3550'											
24 HR FORECAST: CONTINUE DRILLING 12.25" INTERMEDIATE HOLE SECTION.											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	7:00	7.00	INT-DRL	DRLG	PP		DRILL F/1990 - T/2685 (695' @ 82'/HR, WOB-30, GPM-680, RPM-45, DIFF-400/500)				
7:00	8:30	1.50	INT-DRL	CIRC	PN	MP	CIRC W/1 PUMP & C/O LINER & SWAB ON #2 PUMP				
8:30	12:00	3.50	INT-DRL	DRLG	PP		DRILL F/2685 - T/3001 (316' @ 90'/HR, WOB-30, GPM-680, RPM-45, DIFF-400/500)				
12:00	13:30	1.50	INT-DRL	CIRC	PN	MP	CIRC W/1 PUMP & C/O SWAB & SEAT IN #1PUMP				
13:30	16:30	3.00	INT-DRL	DRLG	PP		DRILL F/3001 - T/3195 (194' @ 194'/HR, WOB-30, GPM-680, RPM-45, DIFF-400/500)				
16:30	17:00	0.50	INT-DRL	CIRC	PP		CIRC BTMS UP				
17:00	21:30	4.50	INT-DRL	DPLACE	PP		JET AND CLEAN PITS FOR DISPLACEMENT, DISP HOLE W/SPRAYBERRY MUD				
21:30	0:00	2.50	INT-DRL	DRLG	PP		DRILL F/3001 - T/3350 (349' @ 139'/HR, WOB-30, GPM-580, RPM-45, DIFF-400/500)				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 0000-0600 DRILL F/3350 - T/3805 (455' @ 75'/HR, WOB-30, GPM-580, RPM-45, DIFF-400/500)											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
2 / 1	12.250	Reed-Hycalog		SKHI716M -12	A197124	7x13	535.00 / 06-26-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
2/1	/35.0	/70	569.31	1900	312	15.50	1,360.0	100.7	28.50	2,815.0	98.8
MOTOR OUTPUT											
RPV: 0.17rev/gal				ROTARY CURRENT: 45				TOTAL RPM: 142			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU												DATE 06-27-2014	
API # 4238338545 00		24 HRS PROG 1,360.0 (ft)		TMD 3,350.0 (ft)		TD TVD 3,349.8 (ft)		REPT NO 8					
LCM: MUD PROPERTIES MUD TYPE: Water-Based Mud													
VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
36.00	7.00/18	13/14		1.0			9.60/0.70	0.10/0.40	1700	240	0		4.32
Density (ppg)	8.60	ECD (ppg)	8.79	PP	DAILY COST		0	CUM COST	0	%OIL	% H2O		96.80
BHA	2	JAR S/N		BHA / HOLE CONDITIONS					JAR HRS		BIT	2	
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH			
(kip)		153.0 (kip)		140.0 (kip)		150.0 (kip)		(ft-lbf)		826.07 (ft)			
COMPONENT TYPE		ITEM DESCRIPTION				NO JTS	LENGTH	O.D	I.D	CONN SIZE		CONN TYPE	
Crossover Sub		XO				1	3.00	6.312	2.500			4-1/2 IF	
Drill Collar		6.5" DC				12	531.04	6.312	2.062			4-1/2 XH	
Crossover Sub		XO				1	3.10	7.750	2.500			4-1/2 XH	
Drill Collar		8" DC				6	175.90	8.000	2.992			6-5/8" Reg	
Integral Blade Stabilizer		12 1/8" IBS				1	7.90	8.000	2.992			6-5/8" Reg	
Non-Mag Drill Collar		NMDC				2	59.65	8.125	2.875			6-5/8" Reg	
MWD Tool		UBHO				1	3.49	7.875	3.000			6-5/8" Reg	
Integral Blade Stabilizer		12 1/8" IBS				1	8.10	8.000	2.875			6-5/8" Reg	
Bent Housing		MUD MOTOR				1	32.39	8.000				6-5/8" Reg	
PDC Bit		12.25" PDC				1	1.50	12.250				6-5/8" Reg	
SURVEY													
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)					
NORMAL	3,512.0	0.90	112.90	3,511.8	-11.13	2.68	-11.13	0.13					
NORMAL	3,325.0	0.70	122.30	3,324.8	-9.95	0.36	-9.95	0.12					
NORMAL	3,138.0	0.50	130.60	3,137.8	-8.81	-1.22	-8.81	0.02					
NORMAL	2,948.0	0.50	135.80	2,947.8	-7.67	-2.43	-7.67	0.06					
NORMAL	2,760.0	0.40	129.40	2,759.8	-6.67	-3.51	-6.67	0.05					
NORMAL	2,572.0	0.40	143.60	2,571.8	-5.72	-4.40	-5.72	0.01					
CASING													
S/T	DESCRIPTION			SIZE	WEIGHT		GRADE		SETTING DEPTH				
00	SURFACE			13.375	48.00		H-40		535.0				
MUD PUMPS/HYDRAULICS				SPP: 1900 (psi)		SPR							
				AV(DP):									
				AV(DC):									
				HP: 0.879 (hp/in ²)									
PERSONNEL DATA													
COMPANY			QTY	HRS	COMPANY			QTY	HRS				
TOTAL ENERGY SERVICES			1	24.00	EPI CONSULTING			1	24.00				
HORIZON MUD			1	24.00	BOS SOLUTIONS			2	24.00				
MS DIRECTIONAL			2	24.00	PATTERSON			11	132.00				
TOTAL PERSONNEL ON BOARD: 18													
TOTAL HOURS ON BOARD: 252													
MATERIALS/CONSUMPTION													
ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND						
DIESEL, RIG FUEL	gal	1677	11,503	DIESEL, MUD	gal	0	198						



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-27-2014
API # 4238338545 00	24 HRS PROG 1,360.0 (ft)	TMD 3,350.0 (ft)	TD TVD 3,349.8 (ft)	REPT NO 8

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU										DATE 06-28-2014			
API # 4238338545 00		24 HRS PROG 1,388.0 (ft)		TMD 4,738.0 (ft)		TD TVD 4,737.6 (ft)		REPT NO 9					
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 6.77 (days)		DOL 8.38 (days)			
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD			
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO			
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS							
DESCRIPTION:		DHC: 2,595,500		DHC: 47,582		DHC: 675,481							
		DCC:		DCC:		DCC:							
		CWC:		CWC:		CWC:							
		Others:		Others:		Others:							
		TOTAL: 2,595,500		TOTAL: 47,582		TOTAL: 675,481							
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/28/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE			
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING					
MD 4,829.0 (ft) INC 0.90° AZM 70.00°						13.375 in @ 535.0 ft		9.625 in @ 7,425.0 ft					
CURRENT OPERATIONS: DRILLNG @ 5060' (LAST SURVEY 4829', .9 INC. 70 AZM)													
24 HR SUMMARY: DRLG F/3350 T/4738'.													
24 HR FORECAST: CONTINUE DRILLING 12.25" INTERMEDIATE HOLE SECTION.													
OPERATION SUMMARY													
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY						
0:00	16:00	16.00	INT-DRL	DRLG	PP		DRILL F/3350 - T/4315 (965' @ 60'/HR, WOB-35, RPM-45, DIFF-450, GPM-580)						
16:00	17:00	1.00	INT-DRL	RIGSER	PP		RIG SERVICE						
17:00	0:00	7.00	INT-DRL	DRLG	PP		DRLG F/4315 - T/4738' (423' @ 60'/HR, WOB-32, RPM-45, DIFF-450, GPM-580)						
24.00 = Total Hours Today													
06:00 UPDATE													
0000-0600 0000-0600 DRLG F/4738 - T/5060' (322' @ 53'/HR, WOB-32, RPM-45, DIFF-450, GPM-580)													
BIT DATA													
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R				
2 / 1	12.250	Reed-Hycalog		SKHI716M -12	A197124	7x13	535.00 / 06-26-2014		-----				
BIT OPERATIONS													
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP		
2/1	/32.0	/45	594.42	2100	356	23.00	1,388.0	60.3	51.50	4,203.0	81.6		
MOTOR OUTPUT													
RPV: 0.17rev/gal				ROTARY CURRENT: 44				TOTAL RPM: 145					
LCM: 0.0				MUD PROPERTIES				MUD TYPE: Water-Based Mud					
VIS (s/qt)	PV/YP (cp) / (lb/100ft²)	GELS (lb/100ft²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
38.00	11.00/12	12/13	49.0/0.0	2.0/0.00	0.00/0.00	0.00/0.0	9.20/0.60	0.10/0.40	1900	240	0	0	4.31
Density (ppg)	9.00	ECD (ppg)	9.17	PP (ppg)	0.00	DAILY COST	0	CUM COST	0	%OIL	0.00	% H2O	95.30
BHA	2	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	2		
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH			
(kip)		154.0 (kip)		151.0 (kip)		153.0 (kip)		(ft-lbf)		826.07 (ft)			

Printed: 6/29/2014 4:41:54AM



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 06-28-2014			
API # 4238338545 00		24 HRS PROG 1,388.0 (ft)		TMD 4,738.0 (ft)		TD TVD 4,737.6 (ft)		REPT NO 9		
COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Crossover Sub		XO			1	3.00	6.312	2.500		4-1/2 IF
Drill Collar		6.5" DC			12	531.04	6.312	2.062		4-1/2 XH
Crossover Sub		XO			1	3.10	7.750	2.500		4-1/2 XH
Drill Collar		8" DC			6	175.90	8.000	2.992		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	7.90	8.000	2.992		6-5/8" Reg
Non-Mag Drill Collar		NMDC			2	59.65	8.125	2.875		6-5/8" Reg
MWD Tool		UBHO			1	3.49	7.875	3.000		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	8.10	8.000	2.875		6-5/8" Reg
Bent Housing		MUD MOTOR			1	32.39	8.000			6-5/8" Reg
PDC Bit		12.25" PDC			1	1.50	12.250			6-5/8" Reg
SURVEY										
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)		
NORMAL	4,829.0	0.90	70.00	4,828.6	-4.81	23.06	-4.81	0.10		
NORMAL	4,642.0	0.80	59.10	4,641.6	-5.98	20.55	-5.98	0.13		
NORMAL	4,454.0	0.80	76.20	4,453.7	-6.97	18.15	-6.97	0.08		
NORMAL	4,265.0	0.90	68.80	4,264.7	-7.82	15.49	-7.82	0.05		
NORMAL	4,077.0	0.90	74.20	4,076.7	-8.76	12.69	-8.76	0.11		
NORMAL	3,889.0	1.10	70.80	3,888.7	-9.75	9.57	-9.75	0.05		
NORMAL	3,700.0	1.00	71.00	3,699.8	-10.89	6.29	-10.89	0.36		
CASING										
S/T	DESCRIPTION			SIZE	WEIGHT		GRADE		SETTING DEPTH	
00	SURFACE			13.375	48.00		H-40		535.0	
MUD PUMPS/HYDRAULICS				SPP: 2100 (psi)		SPR				
	STROKE	SPM	LINER	FLOW RATE	AV(DP):		SPM		PPSR	
# 1	12.00	71.00	6.000	297.2	AV(DC):					
# 2	12.00	71.00	6.000	297.2	HP: 1.047 (hp/in²)					
PERSONNEL DATA										
COMPANY		QTY	HRS	COMPANY		QTY	HRS			
TOTAL ENERGY SERVICES		1	24.00	EPI CONSULTING		1	24.00			
HORIZON MUD		1	24.00	MS DIRECTIONAL		2	24.00			
BOS SOLUTIONS		2	24.00	PATTERSON		11	132.00			
TOTAL PERSONNEL ON BOARD: 18										
TOTAL HOURS ON BOARD: 252										
MATERIALS/CONSUMPTION										
ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND			
DIESEL, RIG FUEL	gal	1678	9825	DIESEL, MUD	gal	0	198			
SAFETY DRILLS										
RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL		
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014					
INCIDENT REPORT										
INCIDENTS TYPE		LOST TIME? NO		INCIDENTS DESCRIPTION No incidents reported in last 24 hours.						



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU										DATE 06-29-2014			
API # 4238338545 00		24 HRS PROG 1,464.0 (ft)		TMD 6,202.0 (ft)		TD TVD 6,201.5 (ft)		REPT NO 10					
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 7.77 (days)		DOL 9.38 (days)			
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD			
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO			
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS							
DESCRIPTION:		DHC: 2,595,500		DHC: 64,384		DHC: 739,865							
		DCC:		DCC:		DCC:							
		CWC:		CWC:		CWC:							
		Others:		Others:		Others:							
		TOTAL: 2,595,500		TOTAL: 64,384		TOTAL: 739,865							
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/29/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE			
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING					
MD 6,336.0 (ft) INC 0.70° AZM 94.20°						13.375 in @ 535.0 ft		9.625 in @ 7,425.0 ft					
CURRENT OPERATIONS: DRILLNG @ 6490' (LAST SURVEY 6336', .7 INC. 94.2 AZM)													
24 HR SUMMARY: DRLG F/ 4738 T/6202													
24 HR FORECAST: CONTINUE TO DRILL 12.25" INTERMEDIATE HOLE SECTION													
OPERATION SUMMARY													
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY						
0:00	17:00	17.00	INT-DRL	DRLG	PP		DRILL F/ 4738 - T/5828 (1090' @ 64'/HR , WOB-35, GPM-580, RPM-45, DIFF-350/450)						
17:00	18:00	1.00	INT-DRL	RIGSER	PP		RIG SERVICE						
18:00	0:00	6.00	INT-DRL	DRLG	PP		DRILL F/ 5828 - T/6202 (374' @ 62'/HR , WOB-35, GPM-580, RPM-45, DIFF-350/450)						
24.00 = Total Hours Today													
06:00 UPDATE													
0000-0600 0000-0200 DRLG F/6202 - T/6302' (100' @ 50'/HR, WOB-32, RPM-45, DIFF-450, GPM-580)													
0200-0230 CIRC AND GO THROUGH #2 PUMP													
0200-0600 DRLG F/6302 - T/6490' (188' @ 47'/HR, WOB-32, RPM-45, DIFF-450, GPM-580)													
BIT DATA													
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R				
2 / 1	12.250	Reed-Hycalog		SKHI716M -12	A197124	7x13	535.00 / 06-26-2014		-----				
BIT OPERATIONS													
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP		
2/1	/36.0	/45	586.05	2200	346	23.00	1,464.0	63.7	75.00	5,667.0	75.6		
MOTOR OUTPUT													
RPV: 0.17rev/gal			ROTARY CURRENT: 45			TOTAL RPM: 145							
LCM: 0.0			MUD PROPERTIES						MUD TYPE: Water-Based Mud				
VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
45.00	11.00/15	13/14	47.0/0.0	2.0/0.00	0.00/0.00	0.00/0.0	9.40/0.70	0.10/0.30	1500	320	0	0	4.93
Density (ppg)	9.00	ECD (ppg)	9.18	PP (ppg)	0.00	DAILY COST	0	CUM COST	0	%OIL	0.00	% H2O	95.00



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME										DATE	
UNIVERSITY 2505 2HU										06-29-2014	
API #		24 HRS PROG		TMD		TD TVD		REPT NO			
4238338545 00		1,464.0 (ft)		6,202.0 (ft)		6,201.5 (ft)		10			
BHA	2	JAR S/N		BHA / HOLE CONDITIONS			JAR HRS		BIT	2	
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		215.0 (kip)		200.0 (kip)		205.0 (kip)		(ft-lbf)		826.07 (ft)	
COMPONENT TYPE		ITEM DESCRIPTION				NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Crossover Sub		XO				1	3.00	6.312	2.500		4-1/2 IF
Drill Collar		6.5" DC				12	531.04	6.312	2.062		4-1/2 XH
Crossover Sub		XO				1	3.10	7.750	2.500		4-1/2 XH
Drill Collar		8" DC				6	175.90	8.000	2.992		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS				1	7.90	8.000	2.992		6-5/8" Reg
Non-Mag Drill Collar		NMDC				2	59.65	8.125	2.875		6-5/8" Reg
MWD Tool		UBHO				1	3.49	7.875	3.000		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS				1	8.10	8.000	2.875		6-5/8" Reg
Bent Housing		MUD MOTOR				1	32.39	8.000			6-5/8" Reg
PDC Bit		12.25" PDC				1	1.50	12.250			6-5/8" Reg
SURVEY											
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)			
NORMAL	6,336.0	0.70	94.20	6,335.5	4.04	40.79	4.04	0.07			
NORMAL	6,147.0	0.80	87.90	6,146.5	4.07	38.32	4.07	0.13			
NORMAL	5,959.0	0.90	72.90	5,958.5	3.59	35.60	3.59	0.17			
NORMAL	5,771.0	0.70	54.00	5,770.5	2.48	33.25	2.48	0.10			
NORMAL	5,583.0	0.70	38.30	5,582.6	0.90	31.61	0.90	0.18			
NORMAL	5,394.0	0.60	67.80	5,393.6	-0.38	29.98	-0.38	0.27			
NORMAL	5,206.0	1.00	43.80	5,205.6	-1.93	27.94	-1.93	0.19			
NORMAL	5,017.0	0.80	63.30	5,016.6	-3.71	25.62	-3.71	0.07			
CASING											
S/T	DESCRIPTION			SIZE	WEIGHT	GRADE		SETTING DEPTH			
00	SURFACE			13.375	48.00	H-40		535.0			
MUD PUMPS/HYDRAULICS				SPP: 2200 (psi)		SPR					
	STROKE	SPM	LINER	FLOW RATE	AV(DP):		SPM		PPSR		
# 1	12.00	70.00	6.000	293.0	AV(DC):						
# 2	12.00	70.00	6.000	293.0	HP: 1.003 (hp/in²)						
PERSONNEL DATA											
COMPANY		QTY	HRS	COMPANY		QTY	HRS				
EPI CONSULTING		1	24.00	HORIZON MUD		1	24.00				
TOTAL ENERGY SERVICES		1	24.00	MS DIRECTIONAL		2	24.00				
BOS SOLUTIONS		2	24.00	PATTERSON		11	132.00				
TOTAL PERSONNEL ON BOARD: 18											
TOTAL HOURS ON BOARD: 252											
MATERIALS/CONSUMPTION											
ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND				
DIESEL, RIG FUEL	gal	1917	7908	DIESEL, MUD	gal	0	198				



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 06-29-2014
API # 4238338545 00	24 HRS PROG 1,464.0 (ft)	TMD 6,202.0 (ft)	TD TVD 6,201.5 (ft)	REPT NO 10

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU										DATE 06-30-2014			
API # 4238338545 00		24 HRS PROG 1,079.0 (ft)		TMD 7,281.0 (ft)		TD TVD 7,280.4 (ft)		REPT NO 11					
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 8.77 (days)		DOL 10.38 (days)			
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD			
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO			
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS							
DESCRIPTION:		DHC: 2,595,500		DHC: 77,877		DHC: 817,743							
		DCC:		DCC:		DCC:							
		CWC:		CWC:		CWC:							
		Others:		Others:		Others:							
		TOTAL: 2,595,500		TOTAL: 77,877		TOTAL: 817,743							
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 6/30/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE			
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING					
MD 6,901.0 (ft) INC 0.80° AZM 97.10°						13.375 in @ 535.0 ft		9.625 in @ 7,425.0 ft					
CURRENT OPERATIONS: PUMP SWEEPS & CIRC HOLE CLEAN (TD=7450')													
24 HR SUMMARY: DRLG F/6202' T/ 7281													
24 HR FORECAST: CONTINUE TO DRILL 12.25" INTERMEDIATE HOLE SECTION TO TD @ 7450' CIRC SWEEPS AROUND AND DROP GYRO. POOH RUN 9 5/8" CSG.													
OPERATION SUMMARY													
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY						
0:00	20:30	20.50	INT-DRL	DRLG	PP		DRLG F/6202 - T/7146' (944' @ 46'/HR, WOB-35, RPM-45, DIFF-450, GPM-580)						
20:30	21:00	0.50	INT-DRL	RIGSER	PP		PERFORM RIG SERVICE						
21:00	0:00	3.00	INT-DRL	DRLG	PP		DRLG F/7146 - T/7281' (135' @ /HR, WOB-35, RPM-45, DIFF-450, GPM-580)						
24.00 = Total Hours Today													
06:00 UPDATE													
0000-0600 0000-0400 DRLG F/7281 - T/7450' (169' @ 42'/HR, WOB-35, RPM-45, DIFF-450, GPM-580)													
0400-0600 PUMP SWEEPS & CIRC HOLE CLEAN													
BIT DATA													
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R				
2 / 1	12.250	Reed-Hycalog		SKHI716M -12	A197124	7x13	535.00 / 06-26-2014		-----				
BIT OPERATIONS													
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP		
2/1	/35.0	/45	594.42	2250	352	23.50	1,079.0	45.9	98.50	6,746.0	68.5		
MOTOR OUTPUT													
RPV: 0.17rev/gal			ROTARY CURRENT: 45			TOTAL RPM: 146							
LCM: 0.0			MUD PROPERTIES						MUD TYPE: Water-Based Mud				
VIS (s/qt)	PV/YP (cp) / (lb/100ft²)	GELS (lb/100ft²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
38.00	9.00/18	11/12	40.0/0.0	3.0/0.00	0.00/0.00	0.00/0.0	9.50/0.70	0.20/0.40	1800	240	0	0	3.86
Density (ppg)	8.90	ECD (ppg)	9.06	PP (ppg)	0.00	DAILY COST	0	CUM COST	0	%OIL	0.00	% H2O	95.90
BHA	2	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	2		
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH			
(kip)		250.0 (kip)		230.0 (kip)		240.0 (kip)		(ft-lbf)		826.07 (ft)			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 06-30-2014			
API # 4238338545 00		24 HRS PROG 1,079.0 (ft)		TMD 7,281.0 (ft)		TD TVD 7,280.4 (ft)		REPT NO 11		
COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Crossover Sub		XO			1	3.00	6.312	2.500		4-1/2 IF
Drill Collar		6.5" DC			12	531.04	6.312	2.062		4-1/2 XH
Crossover Sub		XO			1	3.10	7.750	2.500		4-1/2 XH
Drill Collar		8" DC			6	175.90	8.000	2.992		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	7.90	8.000	2.992		6-5/8" Reg
Non-Mag Drill Collar		NMDC			2	59.65	8.125	2.875		6-5/8" Reg
MWD Tool		UBHO			1	3.49	7.875	3.000		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	8.10	8.000	2.875		6-5/8" Reg
Bent Housing		MUD MOTOR			1	32.39	8.000			6-5/8" Reg
PDC Bit		12.25" PDC			1	1.50	12.250			6-5/8" Reg
SURVEY										
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)		
NORMAL	7,393.0	0.80	69.40	7,392.4	4.74	55.45	4.74	0.01		
NORMAL	7,277.0	0.80	69.90	7,276.4	4.17	53.93	4.17	0.18		
NORMAL	7,089.0	0.80	94.00	7,088.4	3.81	51.39	3.81	0.02		
NORMAL	6,901.0	0.80	97.10	6,900.4	4.07	48.78	4.07	0.02		
NORMAL	6,712.0	0.80	94.30	6,711.4	4.33	46.16	4.33	0.12		
NORMAL	6,524.0	0.90	80.70	6,523.5	4.19	43.39	4.19	0.15		
CASING										
S/T	DESCRIPTION			SIZE	WEIGHT	GRADE		SETTING DEPTH		
00	SURFACE			13.375	48.00	H-40		535.0		
MUD PUMPS/HYDRAULICS				SPP: 2250 (psi)		SPR				
	STROKE	SPM	LINER	FLOW RATE	AV(DP):	SPM		PPSR		
# 1	12.00	72.00	6.000	301.4	AV(DC):					
# 2	12.00	70.00	6.000	293.0	HP: 1.035 (hp/in²)					
PERSONNEL DATA										
COMPANY		QTY	HRS	COMPANY		QTY	HRS			
TOTAL ENERGY SERVICES		1	24.00	EPI CONSULTING		1	24.00			
HORIZON MUD		1	24.00	BOS SOLUTIONS		2	24.00			
MS DIRECTIONAL		2	24.00	PATTERSON		11	132.00			
TOTAL PERSONNEL ON BOARD: 18										
TOTAL HOURS ON BOARD: 252										
MATERIALS/CONSUMPTION										
ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND			
DIESEL, RIG FUEL	gal	2555	12,461	DIESEL, MUD	gal	0	198			
SAFETY DRILLS										
RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL		
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014					
INCIDENT REPORT										
INCIDENTS TYPE	LOST TIME? NO		INCIDENTS DESCRIPTION No incidents reported in last 24 hours.							



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 07-01-2014					
API # 4238338545 00		24 HRS PROG 169.0 (ft)		TMD 7,450.0 (ft)		TD TVD 7,449.5 (ft)		REPT NO 12			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 9.77 (days)		DOL 11.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / GLENN WILLIAMS		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 40,772		DHC: 858,514					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 40,772		TOTAL: 858,514					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/1/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: RUNNING 9 5/8" CSG @ 4100'											
24 HR SUMMARY: DRLG F/ 7281 T/7450 TD . CIRCULATE SWEEPS AND CLEAN HOLE. POOH L/D BHA. R/U CGS CREW AND RUN CSG TO 450'											
24 HR FORECAST: RUN 9 5/8" 40# J-55 LTC INTERMEDIATE CSG. CIRC HOLE, R/U AND PUMP CMT AS PER PROG, NIPPLE DOWN AND INSTALL WELL HEAD.											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	4:00	4.00	INT-DRL	DRLG	PP		DRILL F/7281 - T/7450 (169' @ 43'/HR, WOB-35, DIFF-400, RPM-45, GPM-580)				
4:00	8:00	4.00	INT-DRL	CIRC	PP		PUMP SWEEPS & CIRC HOLE CLEAN, BUILD & PUMP SLUG				
8:00	12:00	4.00	INT-DRL	TRIP	PP		POH T/ DC'S				
12:00	12:30	0.50	INT-DRL	RIGSER	PP		RIG SERVICE				
12:30	13:30	1.00	INT-DRL	RU_RD	PP		HOLD SFTY MTG, R/U L/D TRUCK				
13:30	20:00	6.50	INT-DRL	TRIPBHA	PP		L/D BHA				
20:00	22:30	2.50	INT-CSG	RU_RD	PP		CLEAR RIG FLOOR AND RIG UP EXPRESS CSG EQUIPMENT.				
22:30	23:00	0.50	INT-CSG	PRESAFE	PP		HELD SAFETY MEETING WITH RIG AND CASING CREWS.				
23:00	0:00	1.00	INT-CSG	R_PCSG	PP		M/U FLOAT EQUIP & RUN 9 5/8" 40# J-55 LTC INTERMEDIATE CSG F/ 0' T/450 MIDNIGHT DEPTH.				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 0000-0100 RUN 9 5/8" 40# J-55 LTC INTERMEDIATE CSG F/ 450' TO 1527' FILLING PIPE EVERY 30 JOINTS (HAD RETURNS WHILE RUINNING PIPE) 0100-0130 CIRCULATE 1000 STROKES @ 1527' NO RETURNS PIUMPING 5 BPM 0130-0400 RUN 9 5/8" 40# J-55 LTC INTERMEDIATE CSG F/ 1527' TO 3063" FILLING PIPE EVERY 30 JOINTS (HAD RETURNS WHILE RUINNING PIPE) 0400-0430 CIRCULATE 2000 STROKES NO RETURNS WHILE CIRCULATING. PUMPING 5 BPM 0430-0600 RUN 9 5/8" 40# J-55 LTC INTERMEDIATE CSG F/ 3063' TO 4100, ' FILLING PIPE EVERY 30 JOINTS											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
2 / 1	12.250	Reed-Hycalog		SKHI716M-12	A197124	7x13	535.00 / 06-26-2014		2-3-CT-G-X-I-FC-TD		



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-01-2014
API # 4238338545 00	24 HRS PROG 169.0 (ft)	TMD 7,450.0 (ft)	TD TVD 7,449.5 (ft)	REPT NO 12

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
2/1	/35.0	/45	602.79	2250	362	4.00	169.0	42.2	102.50	6,915.0	67.5

MOTOR OUTPUT

RPV: 0.17rev/gal			ROTARY CURRENT: 45			TOTAL RPM: 147		
LCM:			MUD PROPERTIES			MUD TYPE: Water-Based Mud		

VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
38.00	10.00/17	11/12	40.0	3.0			9.60/0.70	0.20/0.40	19,000	260			3.86
Density (ppg)	8.90			PP		DAILY COST	0	CUM COST	0	%OIL		% H2O	95.70

Density (ppg)	8.90			PP		DAILY COST	0	CUM COST	0	%OIL		% H2O	95.70
BHA	2	JAR S/N		BHA / HOLE CONDITIONS						JAR HRS		BIT	

COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Crossover Sub		XO			1	3.00	6.312	2.500		4-1/2 IF
Drill Collar		6.5" DC			12	531.04	6.312	2.062		4-1/2 XH
Crossover Sub		XO			1	3.10	7.750	2.500		4-1/2 XH
Drill Collar		8" DC			6	175.90	8.000	2.992		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	7.90	8.000	2.992		6-5/8" Reg
Non-Mag Drill Collar		NMDC			2	59.65	8.125	2.875		6-5/8" Reg
MWD Tool		UBHO			1	3.49	7.875	3.000		6-5/8" Reg
Integral Blade Stabilizer		12 1/8" IBS			1	8.10	8.000	2.875		6-5/8" Reg
Bent Housing		MUD MOTOR			1	32.39	8.000			6-5/8" Reg
PDC Bit		12.25" PDC			1	1.50	12.250			6-5/8" Reg

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL					-6.92	24.44	-6.92	0.00

CASING

S/T	DESCRIPTION		SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE		13.375	48.00	H-40	535.0

MUD PUMPS/HYDRAULICS					SPP: 2250 (psi)			SPR		
	STROKE	SPM	LINER	FLOW RATE	AV(DP):				SPM	PPSR
# 1	12.00	72.00	6.000	301.4	AV(DC):					
# 2	12.00	72.00	6.000	301.4	HP: 1.079 (hp/in ²)					

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
EPI CONSULTING	1	24.00	TOTAL ENERGY SERVICES	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	2	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 18

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-01-2014
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API # 4238338545 00	24 HRS PROG 169.0 (ft)	TMD 7,450.0 (ft)	TD TVD 7,449.5 (ft)	REPT NO 12
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ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	958	11,503	DIESEL, MUD	gal	0	198
BASE OIL	bbl		1654				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-02-2014				
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)		TD TVD 7,543.5 (ft)		REPT NO 13			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 10.77 (days)		DOL 12.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 320,009		DHC: 1,195,523					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 320,009		TOTAL: 1,195,523					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/2/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: N/D BOPS & PREPARE TO P/U STACK TO SET CSG SLIPS											
24 HR SUMMARY: RUN 176 JTS OF 9 5/8" CSG, CMT SAME.											
24 HR FORECAST: FINISH CMT JOB, N/D, SET SLIPS, N/U & TEST BOPS, P/U BHA TIH T/ DV TOOL											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	10:30	10.50	INT-CSG	CSG	PP		RUN 176 JTS OF 9 5/8" 40# J55 LTC CSG T/7450' (SHOE @ 7450', FLOAT COLLAR @ 7407', DVT @ 4297')				
10:30	12:00	1.50	INT-CSG	CIRC	PP		R/U CMT HEAD & CIRC W/ RIG PUMP @ 250 GPM'S (R/D CSG TOOLS)				
12:00	17:00	5.00	INT-CMT	CMTPRI	PP		HOLD SFTY MTG W/ CREST, SWITCH LINES, TEST T/3500 PSI, (FIRST STAGE) -PUMP 40 BBLS FRESH WATER, 154 BBLS (265 SX) OF 10.6 PPG LEAD CMT, 76 BBLS (260 SX) OF 13.2 PPG TAIL CMT, SHUT DOWN, DROP PLUG, DISP W/ 561 BBLS OF 9.0 PPG WBM, BUMP PLUG @ 16:45 ON 7/2/14 (750-1250 PSI), HOLD 5 MIN, BLEED BACK 2.5 BBLS - NO RETURNS THROUGHOUT 1ST STAGE - CONTACTED TRRC ON 7/1/14 @ 20:00 HRS (SHARONDA)				
17:00	22:00	5.00	INT-CSG	CIRC	PP		DROP DV BOMB, WAIT 17 MIN, PUMP 30 BBLS OF FRESH WATER, SWITCH LINES & PUMP 3 BBL/MIN W/RIG PUMP- FULL RETURNS (CIRC 2 BTMS UP, PUMP SALT PILL & CONT CIRC) (APPROX 35 BBLS CMT - 60 SX BACK TO SURFACE FROM 1ST STAGE)				
22:00	0:00	2.00	INT-CMT	CMTPRI	PP		HOLD SFTY MTG W/CREST, SWITCH LINES, TEST T/3500 PSI (2ND STAGE) PUMP 40 BBL FRESHWATER SPACER, 350 BBLS-815 SX 11.9 PPG LEAD, 24 BBLS-100 SX 14.8 PPG TAIL CMT, SHUTDOWN, DROP PLUG & DISP W/326 BBLS 9.0 PPG WBM @ 5BPM FOR FIRST 95BBL AND LOST RETURNS, SLOWED DOWN TO 3 BPM AND REGAINED PARTICAL RETURNS. DISPLACING @ MIDNIGHT.				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 01:30 FINISHED DISPLACING W/PARTICAL RETURNS, LOST ALL RETURNS LAST 30 BBLS OF DISPLACEMENT. BUMP PLUG @ 01:22 HRS ON 7/3/14 W/320 PSI @3BPM, PRESS UP T/1690 HELD 5MIN AND BLEED BACK 2.0 BBLS. DV TOOL CLOSED. 01:30 - 02:30 FLUSH STACK, R/D CREST CEMENTERS 02:30 - 03:30 R/D FLOW LINE, KOOMEY LINES AND TURN BUCKLES 03:30 - 06:00 R/U ETS STACKLIFT AND PREPARE TO P/U STACK											
CASING											
S/T	DESCRIPTION			SIZE		WEIGHT		GRADE		SETTING DEPTH	
00	SURFACE			13.375		48.00		H-40		535.0	
00	INTERMEDIATE 1			9.625		40.00		J-55		7,450.0	



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-02-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 7,450.0 (ft)	TD TVD 7,543.5 (ft)	REPT NO 13

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	EPI CONSULTING	1	24.00
EDWARDS WELL SERVICE	1	12.00	MS DIRECTIONAL	2	24.00
BOS SOLUTIONS	2	24.00	CREST CEMENTERS	5	12.00
PATTERSON	11	132.00			

TOTAL PERSONNEL ON BOARD: 23

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	959	10,544				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 07-03-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)		TD TVD 7,543.5 (ft)		REPT NO 14			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 11.77 (days)		DOL 13.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 145,177		DHC: 1,340,700					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 145,177		TOTAL: 1,340,700					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/3/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: N/D BOPS @ 06:00 (DUE TO A-SECTION DROPPIN APPROX 2')											
24 HR SUMMARY: PUMP 2ND STAGE INTERMEDIATE CMT JOB, N/U B SECT, N/U BOP'S & TEST SAME											
24 HR FORECAST: WHILE TESTING BOPS, STACK AND A SECTION DROPPED APPROX 2 FOOT, N/D BOPS AND INSTALL NEW A SECTION											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	1:30	1.50	INT-CMT	CMTPRI	PP		HOLD SFTY MTG W/CREST, SWITCH LINES, TEST T/3500 PSI (2ND STAGE) PUMP 40 BBL FRESHWATER SPACER, 350 BBLS-815 SX 11.9 PPG LEAD, 24 BBLS-100 SX 14.8 PPG TAIL CMT, SHUTDOWN, DROP PLUG & DISP W/326 BBLS 9.0 PPG WBM @ 5BPM FOR FIRST 95BBL AND LOST RETURNS, SLOWED DOWN TO 3 BPM AND REGAINED PARTIAL RETURNS, BUMP PLUG 500 OVER @ 01:22 HRS ON 7/3/14, HOLD 5 MIN & BLEED BACK 2 BBLS, FLOATS HELD.				
1:30	2:30	1.00	INT-NUP	BOPS	PP		FLUSH STACK & R/D CEMENTERS, TRANSFER WBM FROM MUD PITS TO FRACK TANKS				
2:30	3:30	1.00	INT-NUP	BOPS	PP		HOLD SAFETY MEETING, R/D FLOWLINE, KOOMEY LINES & TURNBUCKLES, DUMP AND JET MUD PITS				
3:30	6:00	2.50	INT-NUP	BOPS	PP		R/U ETS STACK LIFT, BREAK BOLTS & P/U STACK, SET 9 5/8" SLIPS W/ 35K OVER. CLEAN MUD PITS IN PREP FOR OBM.				
6:00	15:30	9.50	INT-NUP	WLHEAD	PP		ROUGH CUT CSG, L/O CUT JNT, REMOVE SPOOL, FINAL CUT CSG, INSTALL B SECTION				
15:30	20:00	4.50	INT-NUP	WLHEAD	PP		SET DOWN STACK, M/U & TORQUE BOP BOLTS W/ ETS				
20:00	0:00	4.00	INT-NUP	BOPS	PP		R/U ETS TESTERS AND TEST BOPS AND RELATED EQUIP 250 LOW TO 5000 HIGH, HYDRIL 3500				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 WHILE TESTING BOPS, STACK AND A SECTION DROPPED APPROX 2 FOOT. NOTIFIED PROPER PERSONNEL, DECISION WAS MADE TO N/D BOPS AND INSTALL NEW A SECTION. N/D BOPS @ 06:00 HRS											
CASING											
S/T	DESCRIPTION			SIZE		WEIGHT		GRADE		SETTING DEPTH	
00	SURFACE			13.375		48.00		H-40		535.0	
00	INTERMEDIATE 1			9.625		40.00		J-55		7,450.0	



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-03-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 7,450.0 (ft)	TD TVD 7,543.5 (ft)	REPT NO 14

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
EDWARDS WELL SERVICE	1	12.00	HORIZON MUD	1	24.00
EPI CONSULTING	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	2	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 18

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	719	9825	DIESEL, MUD	gal	1412	5904

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 07-04-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)		TD TVD 7,543.5 (ft)		REPT NO 15			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 12.77 (days)		DOL 14.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 89,871		DHC: 1,417,571					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 89,871		TOTAL: 1,417,571					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/4/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 0.0 (ft) INC 0.00° AZM 0.00°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: WAITING ON CMT TO SET IN CELLAR											
24 HR SUMMARY: ATTEMPT TO TEST BOPS WHEN THEY DROPPED, N/D, R/U & PULL 9 5/8 SLIPS, PULL & RESET "A" SECTION, WELD BASE PLATE ON WELL HEAD, POUR CEMENT IN CELLAR, WOC											
24 HR FORECAST: WOC TO 6 AM, SET SLIPS ON 9 5/8 CSG, INSTALL "B" SECTION, N/U AND TEST BOPS, P/U BIT AND SUB & TIH T/ DRILL DVT											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	3:00	3.00	INT-NUP	BOPS	PN	WH	WHILE TESTING BOPS, STACK AND "A" SECTION DROPPED APPROX 2 FOOT. NOTIFIED PROPER PERSONNEL, DECISION WAS MADE TO N/D BOPS.				
3:00	10:00	7.00	INT-NUP	BOPS	PN	WH	N/D BOP'S, SET OUT WITH POLE TRUCK, REMOVE SPACER SPOOL & B SECTION				
10:00	14:00	4.00	INT-NUP	WLHEAD	PN	WH	M/U STINGER, STING INTO 9 5/8" CSG, WELD CSG SLIPS TO 9 5/8", P/U TO 240K, REMOVE SLIPS, P/U A-SECTION & SURFACE CSG TO CORRECT WELLHEAD HEIGHT.				
14:00	20:30	6.50	INT-NUP	WLHEAD	PN	WH	WAIT ON 1" PLATE FOR BASEPLATE, FAB W/WELDER TO FIT A-SECTION, WELD SAME.				
20:30	22:00	1.50	INT-NUP	WLHEAD	PN	WH	POUR CONCRETE IN CELLAR TO BASEPLATE				
22:00	0:00	2.00	INT-NUP	WLHEAD	PN	WH	WAIT ON CMT IN CELLAR TO SET UP				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 WAIT ON CMT IN CELLAR TO SET UP											
CASING											
S/T	DESCRIPTION			SIZE		WEIGHT		GRADE		SETTING DEPTH	
00	SURFACE			13.375		48.00		H-40		535.0	
00	INTERMEDIATE 1			9.625		40.00		J-55		7,450.0	
PERSONNEL DATA											
COMPANY			QTY	HRS	COMPANY			QTY	HRS		
EDWARDS WELL SERVICE			1	12.00	HORIZON MUD			1	24.00		
EPI CONSULTING			1	24.00	MS DIRECTIONAL			2	24.00		
BOS SOLUTIONS			2	24.00	PATTERSON			11	132.00		
TOTAL PERSONNEL ON BOARD: 18											
TOTAL HOURS ON BOARD: 240											
MATERIALS/CONSUMPTION											
ITEM	UNITS	USAGE	ON HAND		ITEM	UNITS	USAGE	ON HAND			
DIESEL, RIG FUEL	gal	784	11,503		DIESEL, MUD	gal	5582	4982			



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-04-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 7,450.0 (ft)	TD TVD 7,543.5 (ft)	REPT NO 15

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 07-05-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)		TD TVD 7,449.4 (ft)		REPT NO 16			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 13.77 (days)		DOL 15.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 73,526		DHC: 1,491,097					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 73,526		TOTAL: 1,491,097					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/5/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 6,901.0 (ft) INC 0.80° AZM 97.10°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: RUN GYRO SURVEY											
24 HR SUMMARY: WOC TO 6 AM, SET SLIPS ON 9 5/8 CSG, INSTALL "B" SECTION, N/U AND TEST BOPS, P/U BIT AND SUB & TIH T/ DRILL DVT & TEST CSG											
24 HR FORECAST: POOH, R/U RUN GYRO, P/U DIRECTIONAL TOOLS, TIH, DISPLACE W/ OBM, DRILL OUT FLT/SHOE EQUIP, START DRLG PRODUCTION CURVE SECTION											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	6:00	6.00	INT-NUP	WLHEAD	PN	WH	WAIT ON CEMENT IN CELLAR TO SET UP				
6:00	8:00	2.00	INT-NUP	WLHEAD	PN	WH	SET CSG SLIPS W/280K STRING WEIGHT, R/D CSG SPEAR				
8:00	9:00	1.00	INT-NUP	WLHEAD	PN	WH	INSTALL B-SECTION & TEST T/2000				
9:00	13:30	4.50	INT-NUP	BOPS	PN	WH	N/U SPACER SPOOLS, BOP'S & ALL RELATED EQUIPMENT, TORQUE SAME				
13:30	18:00	4.50	INT-NUP	BOPS	PP		TEST BOP'S, CHOKE MANIFOLD & ALL RELATED VALVES T/5000H, 250L, HYDRIL 3500H				
18:00	19:00	1.00	INT-NUP	BOPS	PP		N/U FLOW LINE, INSTALL TRIP NIPPLE				
19:00	22:00	3.00	INT-DRL	TRIP	PP		TIH T/4266'				
22:00	23:00	1.00	INT-CSG	TEST	PP		TEST CSG 1500 PSI, HOLD F/ 5 MIN, DRILL DVT				
23:00	0:00	1.00	INT-CSG	TEST	PP		TEST CSG 1500 PSI, HOLD F/30 MIN				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 02:30 POOH 02:30 - 03:30 R/U MS GYRO, STAGE DIRECTIONAL BHA ON PIPE RACKS 03:30 - 06:00 RUN GYRO TESTED GSG T/1500 PSI, HELD F/30 MIN, GOOD TEST											
CASING											
S/T	DESCRIPTION			SIZE		WEIGHT		GRADE		SETTING DEPTH	
00	SURFACE			13.375		48.00		H-40		535.0	
00	INTERMEDIATE 1			9.625		40.00		J-55		7,450.0	



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-05-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 7,450.0 (ft)	TD TVD 7,449.4 (ft)	REPT NO 16

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	EDWARDS WELL SERVICE	1	12.00
EPI CONSULTING	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	719	10,784				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU						DATE 07-06-2014					
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)		TD TVD 7,449.3 (ft)		REPT NO 17			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 14.77 (days)		DOL 16.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 66,055		DHC: 1,557,152					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 66,055		TOTAL: 1,557,152					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/6/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 7,400.0 (ft) INC 1.07° AZM 82.98°						13.375 in @ 535.0 ft		9.625 in @ 7,450.0 ft			
CURRENT OPERATIONS: ROT DRILL T/ KICK OFF POINT F/7450' - T/7490'											
24 HR SUMMARY: POOH, R/U RUN GYRO, P/U DIRECTIONAL TOOLS, TIH, RPR PIN ON TRAVELING BLOCK, TIH											
24 HR FORECAST: FINISH TIH, DRLG FLOAT/SHOE EQUIP W/DISPLACING W/OBM, DRILL AHEAD IN PRODUCTION SECTION											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	2:30	2.50	INT-DRL	TRIP	PP		POH T/ RUN GYRO & P/U CURVE ASSY				
2:30	7:00	4.50	INT-DRL	DEVSUR	PP		R/U & RUN MS GYRO, R/D SAME				
7:00	9:00	2.00	INT-DRL	TRIPBHA	PP		M/U DIRECTIONAL BHA, SCRIBE & TEST SAME				
9:00	10:30	1.50	INT-DRL	TRIP	PP		TIH T/2700' (RIG CREW NOTICED PIN BACKING OUT OF BLOCK)				
10:30	11:30	1.00	INT-DRL	RIGSER	PP		SERVICE RIG				
11:30	19:00	7.50	INT-DRL	RIGSER	PN	RO	PIN BACKING OUT OF BLOCK, INSPECT & WAIT ON MECHANIC, MECHANIC ARRIVED AND INSPECTED, RECOMENDED CALLING WELDER, CALLED OUT WELDER TO WELD PIN IN PLACE				
19:00	22:00	3.00	INT-DRL	TRIP	PP		TIH F/DERRICK T/6964'				
22:00	0:00	2.00	INT-DRL	TRIP	PP		TIH P/U SINGLES FROM PIPE RACK				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 00:30 REPLACE DIES ON ST80 00:30 - 01:30 TIH T/7406' P/U SINGLES FROM PIPE RACK 01:30 - 02:30 DRLG FLOAT EQUIP & DISPLACE W/OBM 02:30 - 03:30 INSTALL ROTATING HEAD 03:30 - 04:00 DRLG CSG SHOE 04:00 - 06:00 ROT DRILL T/ KICK OFF POINT F/7450' - T/7490'											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
3 / 1		Halliburton		MMD55DM	12482118	5x16	7,450.00 / 07-06-2014		-----		
MOTOR OUTPUT											
RPV:				ROTARY CURRENT:				TOTAL RPM:			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU											DATE 07-06-2014			
API # 4238338545 00		24 HRS PROG (ft)		TMD 7,450.0 (ft)			TD TVD 7,449.3 (ft)			REPT NO 17				
LCM: MUD PROPERTIES MUD TYPE:														
VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%)/(lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)	
				PP	DAILY COST		0	CUM COST	0	%OIL	% H2O			
BHA	1	JAR S/N	BHA / HOLE CONDITIONS					JAR HRS			BIT	3		
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS			BHA LENGTH			
(kip)		(kip)		(kip)		(kip)		(ft-lbf)			94.68 (ft)			
COMPONENT TYPE		ITEM DESCRIPTION				NO JTS	LENGTH	O.D	I.D	CONN SIZE		CONN TYPE		
PDC Bit		8.5 PDC				1	1.00	8.500				4 1/2" REG		
Fixed Bend Housing		2.38 FIXED				1	26.46	6.750				4-1/2 IF		
Float Sub		FLOAT SUB				1	3.04	6.875				4-1/2 IF		
Orienting Sub		UBHO				1	2.95	6.500				4-1/2 IF		
Non-Mag Flex Drill Collar		NMFC				1	30.76	6.812				4-1/2 IF		
Non-Mag Flex Drill Collar		NMFC				1	30.47	6.750				4-1/2 IF		



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME								DATE
UNIVERSITY 2505 2HU								07-06-2014
API #		24 HRS PROG		TMD		TD TVD		REPT NO
4238338545 00		(ft)		7,450.0 (ft)		7,449.3 (ft)		17
SURVEY								
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	7,400.0	1.07	82.98	7,399.3	-1.08	55.60	-1.08	0.01
Tie On	7,400.0	1.07	82.98	7,399.3	-1.08	55.60	-1.08	0.00
NORMAL	7,300.0	1.06	83.05	7,299.3	-1.30	53.75	-1.30	0.15
NORMAL	7,200.0	1.15	76.85	7,199.3	-1.64	51.86	-1.64	0.21
NORMAL	7,100.0	1.06	86.60	7,099.3	-1.93	49.96	-1.93	0.08
NORMAL	7,000.0	1.14	86.46	6,999.4	-2.04	48.04	-2.04	0.09
NORMAL	6,900.0	1.12	90.85	6,899.4	-2.09	46.07	-2.09	0.12
NORMAL	6,800.0	1.09	96.96	6,799.4	-1.96	44.15	-1.96	0.07
NORMAL	6,700.0	1.05	94.15	6,699.4	-1.78	42.29	-1.78	0.12
NORMAL	6,600.0	0.95	97.82	6,599.4	-1.60	40.56	-1.60	0.21
NORMAL	6,500.0	0.88	110.31	6,499.4	-1.22	39.01	-1.22	0.23
NORMAL	6,400.0	1.07	103.06	6,399.5	-0.74	37.38	-0.74	0.08
NORMAL	6,300.0	0.99	101.68	6,299.5	-0.36	35.63	-0.36	0.15
NORMAL	6,200.0	0.84	100.01	6,199.5	-0.06	34.06	-0.06	0.09
NORMAL	6,100.0	0.78	95.57	6,099.5	0.14	32.66	0.14	0.05
NORMAL	6,000.0	0.82	93.51	5,999.5	0.25	31.27	0.25	0.12
NORMAL	5,900.0	0.92	98.05	5,899.5	0.40	29.76	0.40	0.29
NORMAL	5,800.0	0.65	91.27	5,799.5	0.53	28.40	0.53	0.13
NORMAL	5,700.0	0.53	86.52	5,699.5	0.51	27.37	0.51	0.23
NORMAL	5,600.0	0.64	66.28	5,599.5	0.26	26.40	0.26	0.19
NORMAL	5,500.0	0.55	82.18	5,499.5	-0.03	25.41	-0.03	0.24
NORMAL	5,400.0	0.67	101.71	5,399.6	0.02	24.36	0.02	0.72
NORMAL	5,300.0	1.11	63.21	5,299.6	-0.29	22.93	-0.29	0.27
NORMAL	5,200.0	1.28	52.93	5,199.6	-1.40	21.17	-1.40	0.12
NORMAL	5,100.0	1.20	56.76	5,099.6	-2.65	19.40	-2.65	0.31
NORMAL	5,000.0	0.96	45.86	4,999.6	-3.81	17.93	-3.81	0.22
NORMAL	4,900.0	0.74	48.70	4,899.6	-4.82	16.84	-4.82	0.18
NORMAL	4,800.0	0.69	62.78	4,799.6	-5.52	15.82	-5.52	0.21
NORMAL	4,700.0	0.69	80.31	4,699.7	-5.90	14.69	-5.90	0.34
NORMAL	4,600.0	0.99	91.49	4,599.7	-5.98	13.23	-5.98	0.20
NORMAL	4,500.0	1.06	81.24	4,499.7	-6.09	11.45	-6.09	0.18
NORMAL	4,400.0	1.19	74.91	4,399.7	-6.50	9.54	-6.50	0.23
NORMAL	4,300.0	1.25	64.33	4,299.7	-7.25	7.55	-7.25	0.08
NORMAL	4,200.0	1.26	60.83	4,199.7	-8.26	5.61	-8.26	0.12
NORMAL	4,100.0	1.19	56.51	4,099.8	-9.36	3.78	-9.36	0.09
NORMAL	4,000.0	1.15	60.41	3,999.8	-10.43	2.04	-10.43	0.19
NORMAL	3,900.0	0.99	65.73	3,899.8	-11.28	0.38	-11.28	0.15
NORMAL	3,800.0	1.07	58.91	3,799.8	-12.12	-1.20	-12.12	0.34
NORMAL	3,700.0	0.76	67.79	3,699.8	-12.85	-2.62	-12.85	0.36
NORMAL	3,600.0	0.48	89.19	3,599.8	-13.11	-3.65	-13.11	0.23
NORMAL	3,500.0	0.46	117.95	3,499.8	-12.93	-4.42	-12.93	0.38
NORMAL	3,400.0	0.67	85.02	3,399.8	-12.79	-5.36	-12.79	0.21
NORMAL	3,300.0	0.84	94.18	3,299.9	-12.79	-6.67	-12.79	0.42
NORMAL	3,200.0	0.87	122.34	3,199.9	-12.33	-8.05	-12.33	0.27
NORMAL	3,100.0	0.77	140.12	3,099.9	-11.41	-9.12	-11.41	0.33
NORMAL	3,000.0	0.49	156.65	2,999.9	-10.50	-9.72	-10.50	0.20
NORMAL	2,900.0	0.35	136.19	2,899.9	-9.89	-10.10	-9.89	0.09
NORMAL	2,800.0	0.28	146.57	2,799.9	-9.46	-10.45	-9.46	0.22
NORMAL	2,700.0	0.46	125.88	2,699.9	-9.02	-10.91	-9.02	0.18
NORMAL	2,600.0	0.64	127.54	2,599.9	-8.45	-11.67	-8.45	0.11
NORMAL	2,500.0	0.54	131.84	2,499.9	-7.79	-12.47	-7.79	0.11



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-06-2014	
API # 4238338545 00	24 HRS PROG (ft)	TMD 7,450.0 (ft)	TD TVD 7,449.3 (ft)	REPT NO 17	

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	2,400.0	0.43	134.56	2,399.9	-7.21	-13.09	-7.21	0.08
NORMAL	2,300.0	0.51	133.79	2,299.9	-6.64	-13.67	-6.64	0.29
NORMAL	2,200.0	0.24	151.53	2,199.9	-6.15	-14.10	-6.15	0.39
NORMAL	2,100.0	0.54	191.72	2,099.9	-5.51	-14.10	-5.51	0.17
NORMAL	2,000.0	0.53	209.91	1,999.9	-4.64	-13.77	-4.64	0.11
NORMAL	1,900.0	0.59	218.99	1,899.9	-3.84	-13.22	-3.84	0.15
NORMAL	1,800.0	0.61	204.69	1,799.9	-2.96	-12.67	-2.96	0.12
NORMAL	1,700.0	0.52	212.38	1,699.9	-2.09	-12.21	-2.09	0.09
NORMAL	1,600.0	0.43	210.40	1,599.9	-1.38	-11.77	-1.38	0.35
NORMAL	1,500.0	0.35	262.69	1,499.9	-1.02	-11.28	-1.02	0.15
NORMAL	1,400.0	0.50	258.57	1,399.9	-0.90	-10.55	-0.90	0.20
NORMAL	1,300.0	0.33	272.35	1,299.9	-0.82	-9.84	-0.82	0.12
NORMAL	1,200.0	0.24	287.86	1,199.9	-0.90	-9.35	-0.90	0.06
NORMAL	1,100.0	0.19	278.42	1,099.9	-0.99	-8.98	-0.99	0.21
NORMAL	1,000.0	0.34	313.20	999.9	-1.21	-8.60	-1.21	0.04
NORMAL	900.0	0.38	315.19	899.9	-1.65	-8.15	-1.65	0.18
NORMAL	800.0	0.29	288.79	799.9	-1.97	-7.68	-1.97	0.08
NORMAL	700.0	0.37	284.30	700.0	-2.13	-7.13	-2.13	0.21
NORMAL	600.0	0.19	262.12	600.0	-2.19	-6.65	-2.19	0.21
NORMAL	500.0	0.40	262.17	500.0	-2.12	-6.14	-2.12	0.43
NORMAL	400.0	0.80	246.96	400.0	-1.80	-5.15	-1.80	0.10
NORMAL	300.0	0.88	250.57	300.0	-1.27	-3.79	-1.27	0.07
NORMAL	200.0	0.95	249.21	200.0	-0.72	-2.29	-0.72	0.10
NORMAL	100.0	0.90	254.35	100.0	-0.21	-0.76	-0.21	0.90
Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
EPI CONSULTING	1	24.00	EDWARDS WELL SERVICE	1	12.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	959	9825	DIESEL, MUD	gal	871	8460

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-07-2014				
API # 4238338545 00		24 HRS PROG 188.0 (ft)		TMD 7,638.0 (ft)		TD TVD 7,637.1 (ft)		REPT NO 18			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,550.00 (ft)		PLANNED DOW 22.00 (days)		DFS 15.77 (days)		DOL 17.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 51,771		DHC: 1,608,923					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 51,771		TOTAL: 1,608,923					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/7/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 7,577.0 (ft) INC 4.00° AZM 209.50°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: TIH @ 5350'											
24 HR SUMMARY: TIH T/ FLOAT/SHOE EQUIP AND DRILL OUT, DRLG CURVE IN PRODUCTION SECTION, POOH FOR LOW ROP											
24 HR FORECAST: POOH, INSPECT BHA, REPLACE BIT, TIH, SLIP/CUT DRILL LINE, TIH T/7638', DRLG AHEAD IN PRODUCTION SECTION											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	0:30	0.50	INT-DRL	TRIP	PN	IRF	REPLACE ST-80 DIES				
0:30	1:30	1.00	INT-DRL	TRIP	PP		P/U SINGLES OFF CATWALK T/7406'				
1:30	2:30	1.00	INT-DRL	DOCMT	PP		TAG CMT @ 7406', DRILL FLOAT COLLAR & DISP HOLE W/10.3 PPG OBM				
2:30	3:30	1.00	INT-DRL	RU_RD	PP		INSTALL ROT RUBBER				
3:30	4:00	0.50	INT-DRL	DOCMT	PP		DRILL CSG SHOE @ 7450'				
4:00	4:00	0.00	P-DRL	M_SPROD	PP		START PRODUCTION @ 7450'				
4:00	6:00	2.00	P-DRL	DRLG	PP		DRILL F/7450 - T/7540 (WOB-20, RPM-30, GPM-550, DIFF-200)				
6:00	6:00	0.00	P-DRL	M_FHzC	PP		START CURVE @ 7540'				
6:00	17:30	11.50	P-DRL	DSLIDE	PP		SLIDE DRILL F/7540 - T/7638 (WOB-20, DIFF-75/150, GPM-450/550)				
17:30	19:00	1.50	P-DRL	CIRCT	PP		LOW ROP, PUMP SWEEP & CIRC HOLE CLEAN				
19:00	20:30	1.50	P-DRL	TRIP	PP		POOH FOR LOW ROP T/5205'				
20:30	22:30	2.00	P-DRL	RIGSER	PN	BRK	RPR WICHITA BREAK				
22:30	0:00	1.50	P-DRL	TRIP	PP		POOH FOR LOW ROP T/1823'				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 02:00 POOH FOR LOW ROP, SURFACE INSPECTION REVELED THE CUTTERS ON THE SHOULDER OF THE BIT WERE ALL BROKEN AND CHIPPED 02:00 - 03:00 INSPECT BHA, C/O BIT & MWD 03:00 - 06:00 TIH T/ 5350'											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
3 / 1	8.500	Halliburton		MMD55DM	12482118	5x16	7,450.00 / 07-06-2014		1-6-BT-S-X-I-CT-PR		



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-07-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	188.0 (ft)	7,638.0 (ft)	7,637.1 (ft)	18

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
3/1	/28.0	/35	586.05	2671	338	13.50	188.0	13.9	13.50	188.0	13.9

MOTOR OUTPUT

RPV: 0.28rev/gal			ROTARY CURRENT: 0			TOTAL RPM: 164		
LCM:			MUD PROPERTIES			MUD TYPE: Oil (Regular)		

VIS (s/qt)	PV/YP (cp) / (lbf/100ft ²)	GELS (lbf/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
70.00	22.00/15	7/14	/7.0	/15.00	81.00/19.00								7.80

Density (ppg)	10.30	ECD (ppg)	10.75	PP	DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	16.00
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BHA	3	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	3
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BHA WT BELOW JARS	STRING WT UP	STRING WT DN	STRING WT ROT	TORQUE/UNITS	BHA LENGTH
(kip)	198.0 (kip)	175.0 (kip)	185.0 (kip)	(ft-lbf)	94.68 (ft)

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar	NMFC	1	30.47	6.750			4-1/2 IF
Non-Mag Flex Drill Collar	NMFC	1	30.76	6.812			4-1/2 IF
Orienting Sub	UBHO	1	2.95	6.500			4-1/2 IF
Float Sub	FLOAT SUB	1	3.04	6.875			4-1/2 IF
Fixed Bend Housing	2.38 FIXED	1	26.46	6.750			4-1/2 IF
PDC Bit	8.5 PDC	1	1.00	8.500			4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	7,577.0	4.00	209.50	7,576.2	-2.57	56.96	1.42	8.23
NORMAL	7,546.0	1.70	185.00	7,545.3	-1.17	57.53	0.01	7.16
NORMAL	7,514.0	1.00	71.30	7,513.3	-0.78	57.31	-0.37	1.06
NORMAL	7,483.0	0.70	80.60	7,482.3	-0.90	56.87	-0.24	0.45

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS

				SPP: 2671 (psi)	SPR	
	STROKE	SPM	LINER	FLOW RATE	AV(DP):	SPM
# 1	12.00	70.00	6.000	293.0		
# 2	12.00	70.00	6.000	293.0	AV(DC):	PPSR
				HP: 2.036 (hp/in ²)		

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
EDWARDS WELL SERVICE	1	12.00	EPI CONSULTING	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	1438	8387	DIESEL, MUD	gal	4006	4454

Printed: 7/8/2014 4:16:01AM



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-07-2014
API # 4238338545 00	24 HRS PROG 188.0 (ft)	TMD 7,638.0 (ft)	TD TVD 7,637.1 (ft)	REPT NO 18

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-08-2014				
API # 4238338545 00		24 HRS PROG 176.0 (ft)		TMD 7,814.0 (ft)		TD TVD 7,805.6 (ft)		REPT NO 19			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 16.77 (days)		DOL 18.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 ERIC TAYLOR / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 89,320		DHC: 1,698,243					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 89,320		TOTAL: 1,698,243					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/8/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 7,734.0 (ft) INC 18.00° AZM 195.80°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: SLIDE DRLG IN PRODUCTION CURVE @ 7925'											
24 HR SUMMARY: POOH FOR BIT, TIH TO SHOE, SLIP CUT DRILL LINE, SLIDE DRLG F/7638' T/7814'											
24 HR FORECAST: DRLG CURVE IN PRODUCTION SECTION											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	2:00	2.00	P-DRL	TRIP	PP		POH T/BHA				
2:00	3:00	1.00	P-DRL	TRIPBHA	PP		CHANGE BIT & MWD & INSPECT MOTOR, TEST SAME				
3:00	7:30	4.50	P-DRL	TRIP	PP		TIH T/7414'				
7:30	10:30	3.00	P-DRL	CUTDL	PP		SLIP & CUT DRILL LINE				
10:30	16:30	6.00	P-DRL	DSLIDE	PP		SLIDE DRILL F/7638' - T/7744' 106' @ 17.6 FPH, WOB- 12-30K, GPM- 544, DRLG TORQ 3390K, RPM- 30-40, MTRPM 152, OFF BTM SPP 2360, ON BTM 2735				
16:30	19:30	3.00	P-DRL	RIGSER	PN	BRK	REPAIR WICHITA BREAK				
19:30	0:00	4.50	P-DRL	DSLIDE	PP		SLIDE DRILL F/7744' - T/7814' 70' @ 15.5 FPH, 100% SLIDE, WOB- 12-30K, GPM- 500, MTRPM 140, OFF BTM SPP 2095, ON BTM 2430				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 SLIDE DRILL F/7814' - T/7925' 111' @ 18.5 FPH, 100% SLIDE, WOB- 12-30K, GPM- 500, MTRPM 140, OFF BTM SPP 2150, ON BTM 2430											
SURVEY MD 7828, INC 30.1, AZM 188.6, TVD 7815.40, DLS 13.65, PTB 7877, INC 36.7, AZM 187, MY 13.6, DLN 13.9, 13' BELOW, 6' RIGHT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
3 / 1	8.500	Halliburton		MMD55DM	12482118	5x16	7,450.00 / 07-06-2014		1-6-BT-S-X-I-CT-PR		
4 / 1	8.500	Halliburton		MMD55DM	12401529	5x16	7,638.00 / 07-08-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
4/1	/25.0	/40	502.33	2250	248	10.50	176.0	16.8	10.50	176.0	16.8
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 0				TOTAL RPM: 141			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-08-2014
API # 4238338545 00	24 HRS PROG 176.0 (ft)	TMD 7,814.0 (ft)	TD TVD 7,805.6 (ft)	REPT NO 19

LCM:	0.0	MUD PROPERTIES					MUD TYPE: Oil (Regular)				
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
66.00	22.00/15	8/15	/6.5	/13.00	79.00/21.00						0		3.70
Density (ppg)	10.30			PP		DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	18.00

BHA	4	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	4
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BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		202.0 (kip)		197.0 (kip)		200.0 (kip)		(ft-lbf)		94.68 (ft)	

COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar		NMFC			1	30.47	6.750			4-1/2 IF
Non-Mag Flex Drill Collar		NMFC			1	30.76	6.812			4-1/2 IF
MWD Tool		UBHO			1	2.95	6.500			4-1/2 IF
Float Sub		FLOAT SUB			1	3.04	6.875			4-1/2 IF
Fixed Bend Housing		2.38 FIXED			1	26.46	6.750			4-1/2 IF
PDC Bit		MMD55DM			1	1.00	8.500			4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	7,734.0	18.00	195.80	7,729.5	-33.23	47.95	32.26	5.64
NORMAL	7,702.0	16.20	195.30	7,698.9	-24.17	50.47	23.15	8.76
NORMAL	7,671.0	13.50	194.20	7,669.0	-16.49	52.50	15.43	9.69
NORMAL	7,640.0	10.50	195.00	7,638.7	-10.25	54.12	9.16	9.32
NORMAL	7,608.0	7.70	201.60	7,607.1	-5.44	55.66	4.32	12.19

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS

MUD PUMPS/HYDRAULICS					SPP: 2250 (psi) AV(DP): AV(DC): HP: 1.282 (hp/in²)	SPR		
	STROKE	SPM	LINER	FLOW RATE			SPM	PPSR
# 1	12.00	60.00	6.000	251.2				
# 2	12.00	60.00	6.000	251.2				

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
EPI CONSULTING	1	24.00	EDWARDS WELL SERVICE	1	12.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	1121	11,023	DIESEL, MUD	gal	808	7057



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-08-2014
API # 4238338545 00	24 HRS PROG 176.0 (ft)	TMD 7,814.0 (ft)	TD TVD 7,805.6 (ft)	REPT NO 19

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION
No incidents reported in last 24 hours.		



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU								DATE 07-10-2014			
API # 4238338545 00		24 HRS PROG 590.0 (ft)		TMD 8,812.0 (ft)		TD TVD 8,032.0 (ft)		REPT NO 21			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 18.77 (days)		DOL 20.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 119,439		DHC: 1,878,519					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 119,439		TOTAL: 1,878,519					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/10/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 8,990.0 (ft) INC 90.50° AZM 181.20°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: DRLG AHEAD IN THE PRODUCTION LATERAL @ 9330'											
24 HR SUMMARY: FINISH POOH, C/O BHA, TIH W/ LATERAL ASSY, DRLG LATERAL F/8222' T/8812											
24 HR FORECAST: DRLG AHEAD IN PRODUCTION LATERAL											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	2:30	2.50	P-DRL	TRIP	PP		FINISH POOH				
2:30	3:30	1.00	P-DRL	TRIPBHA	PP		L/D CURVE ASSY				
3:30	5:30	2.00	P-DRL	TRIPBHA	PP		P/U LATERAL BHA				
5:30	6:00	0.50	P-DRL	TRIPBHA	PP		SCRIBE MWD/MOTOR, TEST SAME, M/U BIT				
6:00	9:30	3.50	P-DRL	TRIP	PP		TIH T/ 3130'				
9:30	10:00	0.50	P-DRL	RIGSER	PP		SERVICE RIG				
10:00	14:00	4.00	P-DRL	TRIP	PP		TIH T/ 8222'				
14:00	0:00	10.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/8222' - T/8812' 590' @ 59 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2656				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 SLIDE/ROTATE F/8812' - T/9330' 518' @ 86.3 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2790											
LAST MWD SURVEY MD 9177, INC 90.7, AZM 181.5, TVD 8027.70, DLS 0.65, 2.7' BELOW, 0.90' LEFT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
5 / 5	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		-----		
4 / 1	8.500	Halliburton		MMD55DM	12401529	5x16	7,638.00 / 07-08-2014		2-2-WT-A-X-I-NO-TD		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
5/5	/40.0	/70	502.33	2656	246	10.00	590.0	59.0	10.00	590.0	59.0
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 211			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-10-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	590.0 (ft)	8,812.0 (ft)	8,032.0 (ft)	21

LCM:	0.0	MUD PROPERTIES					MUD TYPE: Oil (Regular)				
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
65.00	22.00/15	6/16	/6.5	/13.00	79.00/21.00						0		4.50
Density (ppg)	10.20			PP		DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	18.00

BHA	5	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	5
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BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		200.0 (kip)		180.0 (kip)		190.0 (kip)		(ft-lbf)		100.54 (ft)	

COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar		NMFC			1	30.58	6.750			4-1/2 IF
Non-Mag Flex Drill Collar		NMFC			1	29.61	6.812			4-1/2 IF
Float Sub		FLOAT SUB			1	3.05	6.875			4-1/2 IF
Integral Blade Stabilizer		NORTRAC STABILIZER			1	6.50	6.875			4-1/2 IF
Fixed Bend Housing		1.83 FIXED			1	29.80	6.750			4-1/2 IF
PDC Bit		MMD55M			1	1.00	8.500			4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	8,990.0	90.50	181.20	8,029.8	-1,151.90	-22.51	1,152.11	0.85
NORMAL	8,895.0	90.90	181.90	8,031.0	-1,056.94	-19.94	1,057.13	0.48
NORMAL	8,801.0	90.50	182.10	8,032.1	-963.00	-16.66	963.14	0.32
NORMAL	8,707.0	90.80	182.10	8,033.2	-869.07	-13.22	869.16	2.13
NORMAL	8,613.0	88.80	182.10	8,032.9	-775.14	-9.77	775.18	0.80
NORMAL	8,518.0	89.50	181.80	8,031.5	-680.21	-6.54	680.20	1.18
NORMAL	8,424.0	89.60	182.90	8,030.7	-586.29	-2.69	586.23	1.82
NORMAL	8,330.0	88.00	183.50	8,028.8	-492.46	2.56	492.31	0.70
NORMAL	8,266.0	88.20	183.10	8,026.6	-428.60	6.24	428.39	4.60
NORMAL	8,237.0	86.90	183.40	8,025.4	-399.68	7.88	399.44	13.92
NORMAL	8,205.0	82.50	184.10	8,022.4	-367.89	9.97	367.61	16.68

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS					SPP: 2656 (psi)	SPR	
	STROKE	SPM	LINER	FLOW RATE	AV(DP):	SPM	PPSR
# 1	12.00	60.00	6.000	251.2	AV(DC):		
# 2	12.00	60.00	6.000	251.2	HP: 1.270 (hp/in ²)		

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	HORIZON MUD	1	24.00
EDWARDS WELL SERVICE	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-10-2014
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API # 4238338545 00	24 HRS PROG 590.0 (ft)	TMD 8,812.0 (ft)	TD TVD 8,032.0 (ft)	REPT NO 21
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ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	1225	14,379	DIESEL, MUD	gal	434	6294
OIL BASE MUD	bbl	16	473				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-10-2014				
API # 4238338545 00		24 HRS PROG 590.0 (ft)		TMD 8,812.0 (ft)		TD TVD 8,032.0 (ft)		REPT NO 21			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 18.77 (days)		DOL 20.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 119,439		DHC: 1,878,519					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 119,439		TOTAL: 1,878,519					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/10/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 8,990.0 (ft) INC 90.50° AZM 181.20°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: DRLG AHEAD IN THE PRODUCTION LATERAL @ 9330'											
24 HR SUMMARY: FINISH POOH, C/O BHA, TIH W/ LATERAL ASSY, DRLG LATERAL F/8222' T/8812											
24 HR FORECAST: DRLG AHEAD IN PRODUCTION LATERAL											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	2:30	2.50	P-DRL	TRIP	PP		FINISH POOH				
2:30	3:30	1.00	P-DRL	TRIPBHA	PP		L/D CURVE ASSY				
3:30	5:30	2.00	P-DRL	TRIPBHA	PP		P/U LATERAL BHA				
5:30	6:00	0.50	P-DRL	TRIPBHA	PP		SCRIBE MWD/MOTOR, TEST SAME, M/U BIT				
6:00	9:30	3.50	P-DRL	TRIP	PP		TIH T/ 3130'				
9:30	10:00	0.50	P-DRL	RIGSER	PP		SERVICE RIG				
10:00	14:00	4.00	P-DRL	TRIP	PP		TIH T/ 8222'				
14:00	0:00	10.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/8222' - T/8812' 590' @ 59 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2656				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 SLIDE/ROTATE F/8812' - T/9330' 518' @ 86.3 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2790											
LAST MWD SURVEY MD 9177, INC 90.7, AZM 181.5, TVD 8027.70, DLS 0.65, 2.7' BELOW, 0.90' LEFT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
5 / 5	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		-----		
4 / 1	8.500	Halliburton		MMD55DM	12401529	5x16	7,638.00 / 07-08-2014		2-2-WT-A-X-I-NO-TD		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
5/5	/40.0	/70	502.33	2656	246	10.00	590.0	59.0	10.00	590.0	59.0
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 211			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-10-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	590.0 (ft)	8,812.0 (ft)	8,032.0 (ft)	21

LCM:	0.0	MUD PROPERTIES					MUD TYPE: Oil (Regular)				
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
65.00	22.00/15	6/16	/6.5	/13.00	79.00/21.00						0		4.50
Density (ppg)	10.20			PP		DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	18.00

BHA	5	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	5
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BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		200.0 (kip)		180.0 (kip)		190.0 (kip)		(ft-lbf)		100.54 (ft)	

COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar		NMFC			1	30.58	6.750			4-1/2 IF
Non-Mag Flex Drill Collar		NMFC			1	29.61	6.812			4-1/2 IF
Float Sub		FLOAT SUB			1	3.05	6.875			4-1/2 IF
Integral Blade Stabilizer		NORTRAC STABILIZER			1	6.50	6.875			4-1/2 IF
Fixed Bend Housing		1.83 FIXED			1	29.80	6.750			4-1/2 IF
PDC Bit		MMD55M			1	1.00	8.500			4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	8,990.0	90.50	181.20	8,029.8	-1,151.90	-22.51	1,152.11	0.85
NORMAL	8,895.0	90.90	181.90	8,031.0	-1,056.94	-19.94	1,057.13	0.48
NORMAL	8,801.0	90.50	182.10	8,032.1	-963.00	-16.66	963.14	0.32
NORMAL	8,707.0	90.80	182.10	8,033.2	-869.07	-13.22	869.16	2.13
NORMAL	8,613.0	88.80	182.10	8,032.9	-775.14	-9.77	775.18	0.80
NORMAL	8,518.0	89.50	181.80	8,031.5	-680.21	-6.54	680.20	1.18
NORMAL	8,424.0	89.60	182.90	8,030.7	-586.29	-2.69	586.23	1.82
NORMAL	8,330.0	88.00	183.50	8,028.8	-492.46	2.56	492.31	0.70
NORMAL	8,266.0	88.20	183.10	8,026.6	-428.60	6.24	428.39	4.60
NORMAL	8,237.0	86.90	183.40	8,025.4	-399.68	7.88	399.44	13.92
NORMAL	8,205.0	82.50	184.10	8,022.4	-367.89	9.97	367.61	16.68

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS					SPP: 2656 (psi)	SPR	
	STROKE	SPM	LINER	FLOW RATE	AV(DP):		SPM
# 1	12.00	60.00	6.000	251.2	AV(DC):		PPSR
# 2	12.00	60.00	6.000	251.2	HP: 1.270 (hp/in ²)		

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	HORIZON MUD	1	24.00
EDWARDS WELL SERVICE	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-10-2014
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API # 4238338545 00	24 HRS PROG 590.0 (ft)	TMD 8,812.0 (ft)	TD TVD 8,032.0 (ft)	REPT NO 21
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ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	1225	14,379	DIESEL, MUD	gal	434	6294
OIL BASE MUD	bbl	16	473				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-11-2014				
API # 4238338545 00		24 HRS PROG 1,924.0 (ft)		TMD 10,736.0 (ft)		TD TVD 8,031.8 (ft)		REPT NO 22			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 19.77 (days)		DOL 21.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 49,874		DHC: 1,938,643					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 49,874		TOTAL: 1,938,643					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/11/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 11,060.0 (ft) INC 90.10° AZM 182.00°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: DRLG PRODUCTION LATERAL @ 11295'											
24 HR SUMMARY: DRLG PRODUCTION LATERAL F/8812 T/10736											
24 HR FORECAST: DRLG AHEAD IN PRODUCTION LATERAL											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	6:00	6.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/8812' - T/9330' 518' @ 86.3 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2790				
6:00	15:00	9.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/9330' - T/10,076' 746' @ 82.8 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2430, ON BTM 2800				
15:00	15:30	0.50	P-DRL	RIGSER	PP		SERVICE RIG				
15:30	0:00	8.50	P-DRL	DRLG	PP		SLIDE/ROTATE F/10076' - T/10736' 660' @ 77.6 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2640, ON BTM 2990				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 SLIDE/ROTATE F/10736' - T/11295' 559' @ 93 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM SPP 2640, ON BTM 2990											
LAST SURVEY MD 11060, INC 90.1, AZM 182.0, TVD 8032.58, DLS 0.11, 7.5' BELOW, .72' LEFT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
5 / 5	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
5/5	/40.0	/70	502.33	2990	263	23.50	1,924.0	81.9	33.50	2,514.0	75.0
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 211			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-11-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	1,924.0 (ft)	10,736.0 (ft)	8,031.8 (ft)	22

LCM:	0.0	MUD PROPERTIES					MUD TYPE: Oil (Regular)				
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
69.00	23.00/13	7/17	/6.1	/13.00	79.00/21.00						0		4.50

Density (ppg)	10.20			PP		DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	18.00
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BHA	5	JAR S/N		BHA / HOLE CONDITIONS					JAR HRS		BIT	5
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BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH		
(kip)		220.0 (kip)		160.0 (kip)		190.0 (kip)		(ft-lbf)		100.54 (ft)		

COMPONENT TYPE		ITEM DESCRIPTION			NO JTS	LENGTH	O.D	I.D	CONN SIZE		CONN TYPE
Non-Mag Flex Drill Collar		NMFC			1	30.58	6.750				4-1/2 IF
Non-Mag Flex Drill Collar		NMFC			1	29.61	6.812				4-1/2 IF
Float Sub		FLOAT SUB			1	3.05	6.875				4-1/2 IF
Integral Blade Stabilizer		NORTRAC STABILIZER			1	6.50	6.875				4-1/2 IF
Fixed Bend Housing		1.83 FIXED			1	29.80	6.750				4-1/2 IF
PDC Bit		MMD55M			1	1.00	8.500				4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	11,060.0	90.10	182.00	8,032.5	-3,221.01	-64.08	3,221.65	0.11
NORMAL	10,966.0	90.20	182.00	8,032.7	-3,127.07	-60.80	3,127.66	3.10
NORMAL	10,871.0	89.30	179.20	8,032.3	-3,032.08	-59.80	3,032.67	0.86
NORMAL	10,777.0	90.00	179.60	8,031.8	-2,938.09	-60.79	2,938.72	1.18
NORMAL	10,683.0	90.55	180.56	8,032.2	-2,844.09	-60.65	2,844.74	0.98
NORMAL	10,587.0	90.60	181.50	8,033.2	-2,748.11	-58.93	2,748.74	0.15
NORMAL	10,493.0	90.70	181.40	8,034.2	-2,654.15	-56.55	2,654.75	1.67
NORMAL	10,399.0	90.00	182.80	8,034.8	-2,560.22	-53.11	2,560.77	0.77
NORMAL	10,305.0	90.20	182.10	8,035.0	-2,466.30	-49.09	2,466.79	1.47
NORMAL	10,210.0	88.80	182.10	8,034.1	-2,371.37	-45.61	2,371.81	0.77
NORMAL	10,118.0	89.50	182.20	8,032.8	-2,279.45	-42.16	2,279.84	0.74
NORMAL	10,023.0	89.60	181.50	8,032.0	-2,184.50	-39.09	2,184.85	1.36
NORMAL	9,929.0	88.60	180.70	8,030.6	-2,090.53	-37.28	2,090.86	0.69
NORMAL	9,836.0	89.10	180.30	8,028.7	-1,997.56	-36.47	1,997.89	0.11
NORMAL	9,742.0	89.10	180.40	8,027.2	-1,903.57	-35.90	1,903.91	3.72
NORMAL	9,647.0	90.80	183.50	8,027.1	-1,808.64	-32.67	1,808.93	1.25
NORMAL	9,554.0	90.20	182.50	8,027.9	-1,715.77	-27.80	1,715.99	2.07
NORMAL	9,461.0	89.90	180.60	8,028.0	-1,622.81	-25.28	1,622.99	2.25
NORMAL	9,366.0	89.50	178.50	8,027.5	-1,527.82	-26.03	1,528.04	1.58
NORMAL	9,272.0	90.00	179.90	8,027.1	-1,433.83	-27.34	1,434.09	1.84
NORMAL	9,177.0	90.70	181.50	8,027.7	-1,338.85	-26.18	1,339.10	0.65
NORMAL	9,084.0	90.70	180.90	8,028.8	-1,245.87	-24.23	1,246.11	0.38

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS					SPR		
	STROKE	SPM	LINER	FLOW RATE	AV(DP):	SPM	PPSR
# 1	12.00	60.00	6.000	251.2	AV(DC):		
# 2	12.00	60.00	6.000	251.2	HP:	1.357 (hp/in ²)	



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-11-2014
API # 4238338545 00	24 HRS PROG 1,924.0 (ft)	TMD 10,736.0 (ft)	TD TVD 8,031.8 (ft)	REPT NO 22

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	HORIZON MUD	1	24.00
EDWARDS WELL SERVICE	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	1678	12,701	DIESEL, MUD	gal	2103	4191
OIL BASE MUD	bbl		493				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-13-2014				
API # 4238338545 00		24 HRS PROG 1,318.0 (ft)		TMD 14,126.0 (ft)		TD TVD 8,026.0 (ft)		REPT NO 24			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 21.77 (days)		DOL 23.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 71,946		DHC: 2,060,871					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 71,946		TOTAL: 2,060,871					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/13/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 14,365.0 (ft) INC 91.40° AZM 181.80°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: DRLG AHEAD @ 14470'											
24 HR SUMMARY: DRGL LATERAL F/12808' - T/13373', RUN CLEAN UP CYCLE, DRLG LATERAL F/13373' - T/14126'											
24 HR FORECAST: DRLG LATERAL TO TD @ 15483' RUN CLEAN UP CYCLE, L/D 5" DP											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	7:30	7.50	P-DRL	DRLG	PP		SLIDE/ROTATE F/12808' - T/13373' 565' @ 75.3 FPH, WOB- 25-40K, GPM- 520, MTRPM 146, OFF BTM TQ 9523, OFF BTM SPP 3205, ON BTM 3330				
7:30	10:30	3.00	P-DRL	CIRC	PP		RUN CLEAN UP CYCLE				
10:30	13:30	3.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/13373' - T/13561' 188' @ 62.6 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM TQ 6382, OFF BTM SPP 2808, ON BTM 3271				
13:30	14:30	1.00	P-DRL	RIGSER	PP		SERVICE RIG				
14:30	0:00	9.50	P-DRL	DRLG	PP		SLIDE/ROTATE F/13561' - T/14126' 556' @ 59.5 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM TQ 9143, OFF BTM SPP 3061, ON BTM 3370				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 SLIDE/ROTATE F/14126' - T/14470' 344' @ 57.3 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM TQ 9143, OFF BTM SPP 3061, ON BTM 3370											
SURVEY MD 14365, INC 91.4, AZM 181.8, TVD 8020.94, DLS .27, 8.5' ABOVE, 9.5' LEFT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
5 / 5	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
5/5	/40.0	/70	502.33	3371	246	20.00	1,318.0	65.9	76.50	5,904.0	77.2
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 211			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-13-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	1,318.0 (ft)	14,126.0 (ft)	8,026.0 (ft)	24

LCM:	0.0	MUD PROPERTIES					MUD TYPE: Oil (Regular)				
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd") / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
69.00	22.00/15	8/16	/5.5	/13.00	79.00/21.00						0		4.40
Density (ppg)	10.20			PP		DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O	18.00

BHA	5	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	5
-----	---	---------	--	-----------------------	--	--	--	---------	--	-----	---

BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		230.0 (kip)		160.0 (kip)		190.0 (kip)		(ft-lbf)		100.54 (ft)	

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar	NMFC	1	30.58	6.750			4-1/2 IF
Non-Mag Flex Drill Collar	NMFC	1	29.61	6.812			4-1/2 IF
Float Sub	FLOAT SUB	1	3.05	6.875			4-1/2 IF
Integral Blade Stabilizer	NORTAC STABILIZER	1	6.50	6.875			4-1/2 IF
Fixed Bend Housing	1.83 FIXED	1	29.80	6.750			4-1/2 IF
PDC Bit	MMD55M	1	1.00	8.500			4 1/2" REG

SURVEY

TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	14,365.0	91.40	181.80	8,020.9	-6,524.97	-121.69	6,526.10	0.27
NORMAL	14,262.0	91.20	181.60	8,023.2	-6,422.05	-118.64	6,423.13	0.64
NORMAL	14,168.0	91.20	182.20	8,025.2	-6,328.12	-115.52	6,329.16	0.57
NORMAL	14,073.0	91.00	181.70	8,027.0	-6,233.19	-112.29	6,234.19	2.28
NORMAL	13,979.0	89.70	180.00	8,027.6	-6,139.21	-110.90	6,140.20	0.74
NORMAL	13,885.0	89.70	179.30	8,027.1	-6,045.21	-111.47	6,046.23	1.70
NORMAL	13,790.0	89.90	180.90	8,026.7	-5,950.22	-111.31	5,951.25	0.44
NORMAL	13,696.0	90.30	180.80	8,026.9	-5,856.23	-109.91	5,857.25	1.24
NORMAL	13,602.0	91.30	181.40	8,028.2	-5,762.26	-108.11	5,763.26	0.48
NORMAL	13,508.0	91.10	181.00	8,030.2	-5,668.30	-106.14	5,669.29	0.75
NORMAL	13,414.0	91.00	181.70	8,031.9	-5,574.34	-103.92	5,575.30	3.10
NORMAL	13,320.0	89.90	179.00	8,032.6	-5,480.35	-103.35	5,481.32	0.38
NORMAL	13,226.0	89.60	178.80	8,032.2	-5,386.37	-105.16	5,387.40	2.34

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS					SPR		
	STROKE	SPM	LINER	FLOW RATE	SPP: 3371 (psi) AV(DP): AV(DC): HP: 1.270 (hp/in ²)		
# 1	12.00	60.00	6.000	251.2		SPM	PPSR
# 2	12.00	60.00	6.000	251.2			

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	EDWARDS WELL SERVICE	1	24.00
AIP	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 252



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-13-2014
API # 4238338545 00	24 HRS PROG 1,318.0 (ft)	TMD 14,126.0 (ft)	TD TVD 8,026.0 (ft)	REPT NO 24

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	3116	10,140	DIESEL, MUD	gal	1221	72

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION
No incidents reported in last 24 hours.		



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU							DATE 07-14-2014				
API # 4238338545 00		24 HRS PROG 1,357.0 (ft)		TMD 15,483.0 (ft)		TD TVD 8,013.1 (ft)		REPT NO 25			
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 22.77 (days)		DOL 24.38 (days)	
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD	
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO	
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS					
DESCRIPTION:		DHC: 2,595,500		DHC: 52,480		DHC: 2,113,351					
		DCC:		DCC:		DCC:					
		CWC:		CWC:		CWC:					
		Others:		Others:		Others:					
		TOTAL: 2,595,500		TOTAL: 52,480		TOTAL: 2,113,351					
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/14/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE	
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING			
MD 15,430.0 (ft) INC 90.80° AZM 180.50°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft			
CURRENT OPERATIONS: RUNNING CLEAN UP CYCLE											
24 HR SUMMARY: DRLG F/14126 T/15483, TD WELL, START CLEAN UP CYCLE											
24 HR FORECAST: FINISH CLEAN UP CYCLE, POOH T/8666', RUN CLEAN UP CYCLE 400' F/ BOC, L/D 5" DP											
OPERATION SUMMARY											
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY				
0:00	11:30	11.50	P-DRL	DRLG	PP		SLIDE/ROTATE F/14126' - T/14787' 661' @ 57.4 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM TQ 9143, OFF BTM SPP 3061, ON BTM 3370				
11:30	12:30	1.00	P-DRL	RIGSER	PP		SERVICE RIG				
12:30	23:30	11.00	P-DRL	DRLG	PP		SLIDE/ROTATE F/14787' - T/15483' 696' @ 63.3 FPH, WOB- 25-40K, GPM- 500, MTRPM 140, OFF BTM TQ 9300, OFF BTM SPP 3250, ON BTM 3433				
23:30	23:30	0.00	P-DRL	M_TDFin	PP		TD WELL @ 15483' MD				
23:30	0:00	0.50	P-DRL	CIRCT	PP		RUN TD CLEANUP CYCLE				
24.00 = Total Hours Today											
06:00 UPDATE											
0000-0600 00:00 - 06:00 RUN CLEAN UP CYCLE @ TD 15483'											
LAST MWD SURVEY, MD 15430, INC 90.8, AZM 180.5, TVD 8013.94, DLS 1.5, 16.8' ABOVE, 30.1' LEFT											
BIT DATA											
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R		
4RR2 / 2	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		-----		
BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW RATE	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
4RR2/2	/38.0	/70	502.33	3212	246	22.50	1,357.0	60.3	99.00	7,261.0	73.3
MOTOR OUTPUT											
RPV: 0.28rev/gal				ROTARY CURRENT: 70				TOTAL RPM: 211			



APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME				DATE
UNIVERSITY 2505 2HU				07-14-2014
API #	24 HRS PROG	TMD	TD TVD	REPT NO
4238338545 00	1,357.0 (ft)	15,483.0 (ft)	8,013.1 (ft)	25

LCM:	MUD PROPERTIES										MUD TYPE: Oil (Regular)
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VIS (s/qt)	PV/YP (cp) / (lb/100ft ²)	GELS (lb/100ft ²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
73.00	22.00/15	7/16	/5.3	/13.00	79.00/21.00								4.40
Density (ppg)	10.20			PP	DAILY COST	0	CUM COST	0	%OIL	69.00	% H2O		18.00

BHA	5	JAR S/N		BHA / HOLE CONDITIONS				JAR HRS		BIT	4RR2
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH	
(kip)		230.0 (kip)		140.0 (kip)		190.0 (kip)		(ft-lbf)		100.54 (ft)	

COMPONENT TYPE	ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Non-Mag Flex Drill Collar	NMFC	1	30.58	6.750			4-1/2 IF
Non-Mag Flex Drill Collar	NMFC	1	29.61	6.812			4-1/2 IF
Float Sub	FLOAT SUB	1	3.05	6.875			4-1/2 IF
Integral Blade Stabilizer	NORTRAC STABILIZER	1	6.50	6.875			4-1/2 IF
Fixed Bend Housing	1.83 FIXED	1	29.80	6.750			4-1/2 IF
PDC Bit	MMD55M	1	1.00	8.500			4 1/2" REG

SURVEY								
TYPE	MD (ft)	DEG (°)	AZI (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	V.SECT (ft)	D.L (°/100ft)
NORMAL	15,430.0	90.80	180.50	8,013.9	-7,589.79	-122.91	7,590.72	1.50
NORMAL	15,394.0	90.60	180.00	8,014.3	-7,553.79	-122.76	7,554.73	0.57
NORMAL	15,300.0	90.40	179.50	8,015.1	-7,459.79	-123.17	7,460.76	1.18
NORMAL	15,205.0	90.60	180.60	8,016.0	-7,364.80	-123.08	7,365.79	1.15
NORMAL	15,111.0	90.20	179.60	8,016.6	-7,270.80	-122.92	7,271.81	0.83
NORMAL	15,017.0	89.70	179.00	8,016.5	-7,176.81	-124.07	7,177.85	0.53
NORMAL	14,923.0	89.40	178.60	8,015.8	-7,082.83	-126.04	7,083.94	1.48
NORMAL	14,829.0	89.90	179.90	8,015.2	-6,988.85	-127.27	6,989.99	0.61
NORMAL	14,734.0	90.20	179.40	8,015.3	-6,893.85	-127.85	6,895.03	1.28
NORMAL	14,639.0	90.40	180.60	8,015.8	-6,798.85	-127.85	6,800.05	1.06
NORMAL	14,545.0	91.20	181.20	8,017.1	-6,704.87	-126.37	6,706.06	0.33
NORMAL	14,450.0	91.10	181.50	8,019.0	-6,609.92	-124.13	6,611.08	0.45

CASING						
S/T	DESCRIPTION		SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE		13.375	48.00	H-40	535.0
00	INTERMEDIATE 1		9.625	40.00	J-55	7,450.0

MUD PUMPS/HYDRAULICS					SPP: 3212 (psi)	SPR	
	STROKE	SPM	LINER	FLOW RATE	AV(DP):		
# 1	12.00	60.00	6.000	251.2	AV(DC):		
# 2	12.00	60.00	6.000	251.2	HP: 1.270 (hp/in ²)		

PERSONNEL DATA					
COMPANY	QTY	HRS	COMPANY	QTY	HRS
HORIZON MUD	1	24.00	AIP	1	24.00
EDWARDS WELL SERVICE	1	24.00	BOS SOLUTIONS	2	24.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 252

MATERIALS/CONSUMPTION					



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-14-2014
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API # 4238338545 00	24 HRS PROG 1,357.0 (ft)	TMD 15,483.0 (ft)	TD TVD 8,013.1 (ft)	REPT NO 25
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ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	4389	5751				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Drilling Report

WELLBORE NAME UNIVERSITY 2505 2HU										DATE 07-16-2014			
API # 4238338545 00		24 HRS PROG (ft)		TMD 15,483.0 (ft)		TD TVD 8,013.1 (ft)		REPT NO 27					
RIG PATTERSON 173		FIELD NAME SPRABERRY		AUTH TMD 15,485.00 (ft)		PLANNED DOW 22.00 (days)		DFS 24.77 (days)		DOL 26.38 (days)			
WB KO DATE 06-22-2014 05:30		WELL SPUD DATE 06-22-2014 05:30		RIG RELEASE		SUPERVISOR 1 RAYMOND DUNLAP / TERRY MOORE		ENGINEER ROY ALAN DE NAPOLI		PBTMD			
REGION PERMIAN		DISTRICT GARDEN CITY - TX CZ		STATE / PROV TEXAS		COUNTY / PARISH REAGAN		RIG PHONE NO 432-242-3877		RIG FAX NO			
AFE # 11-13-0422-DH		AFE COSTS		DAILY COSTS		CUMULATIVE COSTS							
DESCRIPTION:		DHC: 2,595,500		DHC: 73,892		DHC: 2,271,967							
		DCC:		DCC:		DCC:							
		CWC:		CWC:		CWC:							
		Others:		Others:		Others:							
		TOTAL: 2,595,500		TOTAL: 73,892		TOTAL: 2,271,967							
DEFAULT DATUM / ELEVATION RKB/RT / 2,647.6 (ft)		LAST SAFETY MEETING 7/16/2014		BLOCK		OCSG#		TARGET FORMATION WOLFCAMP (HORIZONTAL)		BHA HRS OF SERVICE			
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING					
MD 15,430.0 (ft) INC 90.80° AZM 180.50°						9.625 in @ 7,450.0 ft		5.500 in @ 15,480.0 ft					
CURRENT OPERATIONS: SEE LCM													
24 HR SUMMARY: POOH LD DP AND BHA FROM 7500'. TIH TO 4900 POOH L/D DRILL PIPE .													
24 HR FORECAST: P/U AND RUN 5.5" PRODUCTION CASING													
OPERATION SUMMARY													
From	To	HRS	Op Phase	Op Code	PT/NPT	NPT CODES	ACTIVITY SUMMARY						
0:00	1:30	1.50	P-DRL	PU_LD	PP		POOH L/D 5" DP						
1:30	3:30	2.00	P-DRL	PU_LD	PP		POOH L/D BHA						
3:30	8:30	5.00	P-DRL	TRIP	PP		CLEAN RIG FLOOR, TIH W/STDs F/DERRICK						
8:30	17:30	9.00	P-DRL	TRIP	PP		R/U L/D TRUCK AND POOH L/D DRILL PIPE						
17.50 = Total Hours Today													
06:00 UPDATE													
0000-0600 SEE LCM													
BIT DATA													
BIT / RUN	BIT SIZE (in)	MANUFACTURER		TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN		I-O-D-L-B-G-O-R				
4RR2 / 2	8.500	Halliburton		MMD55M	12401529	5x16	8,222.00 / 07-10-2014		1-1-WT-A-X-I-NO-TD				
MOTOR OUTPUT													
RPV: 0.28rev/gal				ROTARY CURRENT:				TOTAL RPM:					
LCM:				MUD PROPERTIES				MUD TYPE:					
VIS (s/qt)	PV/YP (cp) / (lbf/100ft²)	GELS (lbf/100ft²)	WL/HTHP (cc/30min)	FC/T.SOL (32nd) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (lbm/bbl)	pH/Pm	Pf/Mf (cc)	Cl (ppm)	Ca (ppm)	H2S (ppm)	KCL (ppm)	LGS (%)
				PP	DAILY COST		0	CUM COST	0	%OIL			% H2O
BHA	5	JAR S/N	BHA / HOLE CONDITIONS				JAR HRS			BIT			
BHA WT BELOW JARS		STRING WT UP		STRING WT DN		STRING WT ROT		TORQUE/UNITS		BHA LENGTH			
(kip)		(kip)		(kip)		(kip)		(ft-lbf)		100.54 (ft)			
COMPONENT TYPE		ITEM DESCRIPTION				NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE		
Non-Mag Flex Drill Collar		NMFC				1	30.58	6.750			4-1/2 IF		
Non-Mag Flex Drill Collar		NMFC				1	29.61	6.812			4-1/2 IF		



APACHE CORPORATION
Daily Drilling Report

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WELLBORE NAME UNIVERSITY 2505 2HU				DATE 07-16-2014
API # 4238338545 00	24 HRS PROG (ft)	TMD 15,483.0 (ft)	TD TVD 8,013.1 (ft)	REPT NO 27

Float Sub	FLOAT SUB	1	3.05	6.875	4-1/2 IF
Integral Blade Stabilizer	NORTRAC STABILIZER	1	6.50	6.875	4-1/2 IF
Fixed Bend Housing	1.83 FIXED	1	29.80	6.750	4-1/2 IF
PDC Bit	MMD55M	1	1.00	8.500	4 1/2" REG

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
00	SURFACE	13.375	48.00	H-40	535.0
00	INTERMEDIATE 1	9.625	40.00	J-55	7,450.0

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
AIP	1	24.00	TOTAL ENERGY SERVICES	1	24.00
HORIZON MUD	1	24.00	BOS SOLUTIONS	2	12.00
MS DIRECTIONAL	4	24.00	PATTERSON	11	132.00

TOTAL PERSONNEL ON BOARD: 20

TOTAL HOURS ON BOARD: 240

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
DIESEL, RIG FUEL	gal	400	3913				

SAFETY DRILLS

RAMS (psi)	ANNULARS (psi)	CASING	LAST BOP FUNCTION	LAST BOP PRESSURE TEST	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	ABND. DRILL
3000	06-25-2014 / 2000	06-26-2014 / 500	06-25-2014	06-25-2014	07-09-2014			

INCIDENT REPORT

INCIDENTS TYPE	LOST TIME? NO	INCIDENTS DESCRIPTION No incidents reported in last 24 hours.
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APACHE CORPORATION

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Daily Land - Orig Comp Report

WELL NAME UNIVERSITY 2505 2HU							DATE 07-17-2014
Operator APACHE CORPORATION	API 4238338545	GL 2,619.00	TMD 15,483.00	PBTD 0.00	RKB/RT 2,647.60	Working Int % 100.00	Report No 2
Region PERMIAN	District GARDEN CITY - TX CZ	License	Well Supervisor RAYMOND DUNLAP / GLENN WILLIAMS		Engineer / Geologist ROY ALAN DE NAPOLI		
Field SPRABERRY	State	County	Event Code LCM	Event Type LAND-ORIG COMP		Objective	
RIG Name PATTERSON 173 /		RIG PHONE NO 432-242-3877		RIG Fax No		Tool Pusher JACKY BROWN	

AFE #:	11-13-0422-CP	AFE Description:					
AFE Costs 4,964,000	Previous Day Cum 0	Daily Costs 488,985	Cumulative Cost 488,985	AFE Remaining 4,475,015	AFE % 9.85		

Status	NIPPLING DOWN BOP, AND CLEANING PIT						
Comment Summary	RUN 5.5" CGS. R/D CSG CREW R/U CMT CREW AND CIRC. HOLE WHILE WAITING ON CHEMICAL FROM CREST. CHEM ARRIVED @ 2300 HRS MIX SPACER.						
24 HR Forecast	PERFORM CMT JOB AS PER APACHE AND CREST PROCEDURE. NIPPLE DOWN INSTALL WELL HEAD AND RELEASE RIG . PREPARE TO MOVE RIG .						

24 HR Operational Comments

From	To	Duration	Operation Description
12:00AM	02:30AM	2.50	CONTINUE RUNNING 5.5" PRODUCTION CSG F/ 5662' T/7400'
02:30AM	04:00AM	1.50	MAKE REPAIR TO EATON BRAKE LEAKING WATER.
04:00AM	02:30PM	10.50	CONTINUE RUNNING 5.5" PRODUCTION CSG F/ 7400" T/15478'
02:30PM	06:00PM	3.50	RIG DOWN CASING CREW STING IN W/ CRT & CIRC. BTMS UP WHILE WAITING ON TAIL CEMENT TO ARRIVE ON LOCATION
06:00PM	06:30PM	0.50	MIX SPACER FOR CEMENTY JOB(WHILE REVIEWING JOB PROCEDURE WITH CEMENTERS CO.MAN DETERMINED CEMENTER HAD NOT MIXED PROPER AMOUNT OF WEIGHTED SPACER & DID NOT HAVE MATERIAL ON LOCATION TO DO SO,A CALL WAS MADE TO ENGINEER & CALLS WERE MADE TO GET MATERIAL ON ITS WAY TO LOCATION PER ENGINEERS REQUEST
06:30PM	11:00PM	4.50	RIG UP CIRCULATING IRON & CIRC @ REDUCED PUMP RATE UNTIL MATERIALS ARRIVE ON LOCATION TO MIX CEMENT JOB. BARITE ARRIVED ON LOCATION @ 2300HRS
11:00PM	12:00AM	1.00	MIX CMT SPACER

Remarks

0000-0330 SWITCH LINES, TEST T/5000 PSI, PUMP 80 BBLS 11.0 PPG WEIGHTED GTX SPACER, 215 BBLS - 500 SX OF 11.9 PPG CLASS H 50/50 POZ W/ADDITIVES OF LEAD CMT FOLLOWED BY 456 BBLS-1600 SX OF 13.2 PPG CLASS H PREMIUM W/ADDITIVES OF TAIL CMT, SHUT DOWN, WASH LINES, DROP TOP PLUG & DISP.CEMENT W/ 343 BBLS OF BIOCIDES TREATED H2O, BUMPED PLUG 500 OVER @ 03:33 HRS ON 7/18/14 (2700 FCP @ 4 BPM) 60 BBLS SPACER BACK TO SURFACE.
03:30-0400 RIG DOWN CEMENTERS
04:00-06:00-NIPPLE DOWN FLOWLINE & TURNBUCKLES & READY BOP FOR N/D

Directional Information

Initial Deviation	Max Dev	Max Dogleg
7,608	91.4deg at 14,356	16.7 deg at 8,205

Casing / Tubing Information

Description	Size	Weight	Grade	Depth	Sacks	CMT Top	Packer / SN	TOC Method
SURFACE	13.38	48	H-40	535.03	550	28.60	-2,112.62	Returns at Surface
INTERMEDIATE 1	9.63	40	J-55, N-80	7,450.00	1,440		4,801.68	

Personnel

Company Name	No of People	Hours Today	Cum / Event
TOTAL ENERGY SERVICES	1	24.0	48.0
AIP	1	24.0	48.0
PATTERSON-UTI DRILLING	13	156.0	168.0
Total:	15	204.0	264.0

Safety Drills

Rams	Annulars	Casing	Last BOP Test	Next BOP Test
3,000.00 (psi)	2,000.00 (psi)	6/25/2014 / 500.00 (psi)	6/25/2014	7/9/2014

BULKES

Product	QTY
SPRAYBERRY MUD	0.0
DIESEL, MUD	72.0
DIESEL, RIG FUEL	2,636.0
OIL BASE MUD	393.0



APACHE CORPORATION

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Daily Cost Detail

Account Code	Description	AFE Amount	Previous	Daily Cost	Cumulative	Available	Description
70004	CASING CREW	30,000	0	0	0	30,000	
70006	CEMENT AND CEMENTING SERVICES	110,000	0	90,561	90,561	19,439	CMT PRODUCTION CSG
70009	COMPANY LABOR	20,000	0	0	0	20,000	
70017	CONTRACT LABOR			10,290			LAY DOWN MACHJINE AND CREW
70017	CONTRACT LABOR			11,811			CASING CREW
70017	CONTRACT LABOR			275			HOUSE KEEPER
70017	CONTRACT LABOR			8,375			CRT CREW
70017	CONTRACT LABOR	300,000	0	30,751	30,751	269,249	
70019	CONTRACT DRILLING-DAY/TURNKEY	316,000	0	23,040	23,040	292,960	PATTERSON 173
70021	CONTRACT SUPERVISION			1,650			TERRY MOORE
70021	CONTRACT SUPERVISION			1,650			RAYMOND DUNLAP
70021	CONTRACT SUPERVISION	33,000	0	3,300	3,300	29,700	
70022	DIRECTIONAL DRILLING			0			MS DAY RATE
70025	DRILLING FLUIDS			900			MUD COST
70031	EQUIPMENT RENTAL			125			H2S EQUIPMENT
70031	EQUIPMENT RENTAL			0			SLIDER DAILY RENTAL
70031	EQUIPMENT RENTAL			150			OBM TRANSFER PUMP
70031	EQUIPMENT RENTAL			90			GENERATOR FOR HOUSES
70031	EQUIPMENT RENTAL			225			KATCH KAN
70031	EQUIPMENT RENTAL			400			400 BBL PRE MIX
70031	EQUIPMENT RENTAL			55			SCREEN CLEANER
70031	EQUIPMENT RENTAL			150			ROTATING HEAD
70031	EQUIPMENT RENTAL			20			TRASH TRAILER
70031	EQUIPMENT RENTAL			455			OBM FRAC TANKS & PUMP
70031	EQUIPMENT RENTAL			50			LIGHT TOWER FOR FRACS
70031	EQUIPMENT RENTAL			150			SUPER VAC
70031	EQUIPMENT RENTAL			125			SLOP PUMP
70031	EQUIPMENT RENTAL			70			2 FRAC TANKS FOR FRESH WATER
70031	EQUIPMENT RENTAL			150			POWER WASHER
70031	EQUIPMENT RENTAL			165			3 SLOP FRAC'S
70031	EQUIPMENT RENTAL			154			RENTAL SPOOLS
70031	EQUIPMENT RENTAL			590			PASON EDR/AUTO DRILLER
70031	EQUIPMENT RENTAL			190			INTERNET& INTERCOMS MANGNUM
70031	EQUIPMENT RENTAL			90			TRASH PUMP
70031	EQUIPMENT RENTAL			761			CAMP HOUSING/WATER/SEPTIC/INTE
70031	EQUIPMENT RENTAL	350,000	0	4,165	4,165	345,835	
70034	FORMATION STIMULATION	2,400,000	0	0	0	2,400,000	
70039	ENGR/ GEOLOGICAL-CONTRACTORS/CON			0			MUD LOGGERS
70049	LOGGING	215,000	0	0	0	215,000	
70067	SALT WATER DISPOSAL	300,000	0	0	0	300,000	
70074	TRUCKING AND HAULING	100,000	0	0	0	100,000	
70076	TUBULAR INSPECTION/TESTING	5,000	0	1,531	1,531	3,469	DC REPAIRS
70077	WATER	300,000	0	0	0	300,000	
Total Intangible Cost		4,479,000	0	154,248	154,248	4,324,752	
71032	OTHER SUBSURFACE EQUIPMENT	100,000	0	22,815	22,815	77,185	FRACK SLEEVE AND LABOR FOR RUN
71040	PRODUCTION CASING	315,000	0	311,922	311,922	3,078	PRODUCTION CSG.5.5"
71053	TUBING	55,000	0	0	0	55,000	
71056	WELLHEAD ASSEMBLY	15,000	0	0	0	15,000	
Total Tangible Cost		485,000	0	334,737	334,737	150,263	
Total:		4,964,000	0	488,985	488,985	4,475,015	