

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com

UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
Job Information								
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 54,213		Cum Field Est (Cost) 172,205		
Number of Stages (ft) 28		Lateral Length (ft)		Time Since LTI (days)		Time Since Reportable Incident (days)		
Daily Contacts								
Contacts COMP SUPER, WES WILSON, LOOP; CONSLTNT, KEVIN ETCHISON, LOOP								
Daily Operations								
Operations Summary DISPLACE WELL,ATTEMPT TO PUMP DOWN PLUG AND GUNS. POOH AND RDMO WL TRUCK.								
Planned Operations TCP								
Time Log								
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:45	0.75	0.75	PUMP TEST	No	DISPLACED ACID AT 7.5 BPM @ 7500 PSI, PUMPED 299 BBLS SHUT DOWN LET ACID SOAK FOR 15 MINS. BROUGHT RATE UP TO 10.5 BPM @ 8500 PSI.PUMPED 71 BBLS WHEN PRESSURE HIT 8800 AND PUMPS KICKED OUT. SHUT DOWN WELL SHUT IN AND WAITING TO TCP.		
05:45	07:00	1.25	2.00	STANDBY	No	DISCUSS WITH ENG.		
07:00	09:00	2.00	4.00	RIG UP/DOWN	No	RU WIRELINE AND WAIT FOR PLUG AND PLG HAND.		
09:00	10:30	1.50	5.50	WIRELINE	No	ATTEMPT TO PUMP DOWN PLUG AND GUNS. PUMPED 71 BBLS PRESS KICKED OUT AT 8410' W/8320 PSI AROUND 70 DEGREE MARK. LINE SPEED 38 FT/MIN 9 BPM @7950 PSI. LINE SPEED 10 FT/MIN @8600' CALL SUPERVISOR AND POOH.		
10:30	11:30	1.00	6.50	WIRELINE	No	POOH W/GUNS AND PLUG. 120 FT/MIN.		
11:30	12:30	1.00	7.50	RIG UP/DOWN	No	RDMO WL TRUCK AND CRANE.		
12:30	00:00	11.50	19.00	STANDBY	No	WAIT ON CT TO FINISH TOE PREP ON 0818H.		
Safety Checks								
Time		Type			Inspected By		Description	
Perforation Intervals								
Time	Zone			Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com



AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 2/12/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date	
Job Information									
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date	
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 80,678		Cum Field Est (Cost) 252,883			
Number of Stages (ft) 28		Lateral Length (ft)		Time Since LTI (days)		Time Since Reportable Incident (days)			
Daily Contacts									
Contacts COMP SUPER, WES WILSON, LOOP; CONSLTNT, KEVIN ETCHISON, LOOP									
Daily Operations									
Operations Summary MAKE CLEAN OUT RUN AND PLUG RUN									
Planned Operations MIRU 2 3/8" CT UNIT MAKE BIT TRIP AND PLUG RUN.									
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT	
05:00	05:30	0.50	0.50	SAFETY MEETING	No	TALKED ABOUT HAVING PROPER PPE, OVER HEAD LOADS, AND PRESSURE ON PIPE.			
05:30	08:00	2.50	3.00	STANDBY	No	WAITING ON CONQUEST 2 3/8" CT UNIT TO RIG DOWN FROM UL 09-0818H			
08:00	11:30	3.50	6.50	RIG UP/DOWN	No	MIRU CONQUEST 2 /38" CT UNIT, PUMPS, AND CIRCLE 8 CRANE, FOR TCP OPERATIONS,			
11:30	12:30	1.00	7.50	RIG UP/DOWN	No	NU CONQUEST BOP'S AND LUBRICATOR, FUNCTION TEST BOP'S GOOD TEST. INSTALL COIL CONNECTOR, PULL TEST TO 30,000 #			
12:30	13:30	1.00	8.50	INSTALL NEW DOWNHOLE ASSEMBLY	No	MU.TOP NOTCH BHA COIL CONNECTOR-0.88 BACK PRESSURE VALVE-1.40 HYDRAULIC JARS-5.00 HYDRAULIC RELEASE-1.45 CIRC. SUB-6.27 DSA MOTOR-13.00 X OVER-0.56 JZ ROCK BIT-0.50 TOTAL BHA-30.44 FUNCTION TEST MOTOR 3.5BPM GOOD @3600PSI.			
13:30	14:00	0.50	9.00	PRESSURE TEST	No	NU LUB TO TO BOP'S, PREFORM SHELL TEST BOP'S AND LUB, LOW TEST 250PSI GOOD, HIGH TEST 8300PSI GOOD, BLEED PRESSURE OFF TO 2300PSI, WH 2000PSI, OPEN FRAC VALVE 32.5 TURNS, OPEN CHOKE MANIFOLD WH PRESSURE BLED DOWN TO 100PSI			
14:00	14:30	0.50	9.50	TRIPPING	No	RIH W/ TOP NOTCH BHA AND 2 3/8" CT.			
14:30	16:30	2.00	11.50	TRIPPING	No	RIH TO @ 7600', PU WHEIGHT 30000#, INCREASE PUMP RATE TO 3.5BPM, PUMP PRESSURE 4400PSI, WH 0PSI 3.5 IN RETURNS, CONTINUE RIH.			
16:30	18:00	1.50	13.00	CLEAN OUT HOLE	No	RIH TO @13344'CTM TAGGED UP PU TO @13330'CTM, PUMP 20BBL 100 VIS SWEEP, 1000 GALLONS OF DEISEL, 20BBL 100 VIS SWEEP, TIMED TO EXIT CT, AND POOH LAYING POP 1/2 PER 1000 GALONS,			
18:00	18:15	0.25	13.25	SAFETY MEETING	No	TALKED ABOUT WORKING IN WINDY CONDITIONS, OVERHEAD AWARENESS, PINCH POINTS.			
18:15	23:00	4.75	18.00	TRIPPING	No	PUMP 20BBL 100 VIS SWEEP, 1000 GALLONS OF DEISEL, 20BBL 100 VIS SWEEP, TIMED TO EXIT CT, AND POOH LAYING POP 1/2 PER 1000 GALONS,			
23:00	00:15	1.25	19.25	INSTALL NEW DOWNHOLE ASSEMBLY	No	SHUT IN WELL, LAY DOWN TOP NOTCH BHA, PICK NINE ENERGY'S, SETTING TOOL AND SLEEVE AND PRO DRILL SOLID COMPOSITE PLUG.			
00:15	04:15	4.00	23.25	TRIPPING	No	OPEN UP WELL, RIH WITH PRO DRILL SOLID PLUG TO 13,297 CT DEPTH.			
04:15	05:00	0.75	24.00	GENERAL OPERATIONS	No	SHUT DOWN PUMPS, LOAD 5/8 STEEL BALL IN TOOL TRAP, PRESSURE UP PUMP AND LINES TO 2500#, DROP BALL PUMP RATE @3 BPM, PUMP PRESSURE @ 2800#.			
Safety Checks									
Time		Type		Inspected By		Description			
18:00		SAFETY MEETING		WES WILSON		DISCUSE PINCH POINTS			
Perforation Intervals									
Time	Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)	Gun Size (in)	Com



AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 2/13/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
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Job Information

Job Category COMPLETION	Primary Job Type COMPLETION - ORIGINAL	Secondary Job Type	Start Date 12/3/2014	End Date
AFE Number DV02164	Supplemental AFE Number	Daily Field Est (Cost) 99,678	Cum Field Est (Cost)	360,561
Number of Stages (ft) 28	Lateral Length (ft)	Time Since LTI (days)	Time Since Reportable Incident (days)	

Daily Contacts

Contacts COMP SUPER, WES WILSON, LOOP; CONSLTNT, KEVIN ETCHISON, LOOP; COMP SUPVR, BILLY CLARK, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT
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Daily Operations

Operations Summary RUN IN HOLE SET PLUG 13297' , PERF FIRST ZONE AND INJECTION TEST,MIRU FRAC EQUIPMENT.
Planned Operations SET SOLID PLUG AND PERF FIRST ZONE

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:45	0.75	0.75	GENERAL OPERATIONS	No	DROP BALL PUMP RATE @3 BPM, PUMP PRESSURE @ 2800#. BALL SET @3500# PRESSURE, PICKED UP 20' OFF PLUG RIH TAG PLUG TO INSURE PLUG SET,		
05:45	06:00	0.25	1.00	PRESSURE TEST	No	PICK UP 30', OFF PLUG SHUT IN WELL, PRESSURE UP PLUG AND CASING TO 8,500#, OBSERVE FOR 5 MIN, GOOD TEST, BLEED OFF PRESSURE TO OPEN TOP, POOH TO SURFACE.		
06:00	06:15	0.25	1.25	SAFETY MEETING	No	CONTINUE TO PULL OOH WHP=0 CIRC.= 2200 PSI 3 BBL MIN. CHEMICALS PSI		
06:15	08:00	1.75	3.00	GENERAL OPERATIONS	No	SLOW FLUID RATE WHP= 0 @ 1.5 CIRC.1400 @ 1.5 CTM 7700' CHEMICALS STOP POP		
08:00	09:45	1.75	4.75	PERFORATING	No	OOH SHUT IN WELL BLEED OFF. RIG DOWN SETTING TOOL. RIG UP 5 TCP GUNS.		
09:45	11:15	1.50	6.25	TRIPPING	No	OPEN FLOW BACK.RIG UP ON WELL 32 1/2 ON MASTER VALVE. SET TRIPS ON PUMP 1500 PSI. RIH		
11:15	14:30	3.25	9.50	PERFORATING	No	SHUT IN WELL TAG PLUG @ 13291' CTM PERF @ 13288' 8 SHOTS PERF @ 13255' 7 SHOTS PREF @ 13222' 7 SHOTS PREF @ 13189' 7 SHOTS PERF @ 13156' 6 SHOTS WHP @ 1700 PSI ROLL OVER PUMP POOH		
14:30	15:15	0.75	10.25	TRIPPING	No	ROLL OVER PUMP .8 POOH TO LOAD HOLE. WHP 1700 PSI		
15:15	17:15	2.00	12.25	TRIPPING	No	CONTINUE TO POOH WHP=1700 PSI		
17:15	17:30	0.25	12.50	SAFETY MEETING	No	TALKED ABOUT TODAY'S OPERATIONS, RANCH RULES, SLIPS TRIPS AND FALLS.		
17:30	18:00	0.50	13.00	RIG UP/DOWN	No	RIG DOWN TCP GUNS. PREFORM INJECTION RATE TEST		
18:00	19:30	1.50	14.50	PRESSURE TEST	No	PREFORM INJECTION TEST, BRING O-TEX PUMPS OL WALKED RATE UP TO 18BPM @5400PSI, INCREASED RATE TO 20BPM PRESSURE STABELIZED @5600PSI, PUMPED A TOTAL OF 400BBLs, MAX PRESSUER SEEN 5700PSI, SD PUMPS, MONITERD SI PRESSURES. 5MIN-2900PSI 10MIN-2815PSI 15MIN-2750PSI, SI WH 32.5 TURNS WELL IS SECURE, BLED PRESSURE OFF TO OPEN TOP TANK.		
19:30	00:30	5.00	19.50	RIG UP/DOWN	No	RDMO CONQUEST CT UNIT AND MIXING PLANT,CIRCLE 8 CRANE		
00:30	05:00	4.50	24.00	RIG UP/DOWN	No	MIRU FRAC EQUIPMENT.		

Safety Checks

Time	Type	Inspected By	Description
06:00	SAFETY MEETING	BILLY CLARK	PINCH POINTS,PPE, DAILY OPERATIONS
18:00	SAFETY MEETING	WES WILSON	SLIPS, TRIPS, FALLS AND RANCH RULES

Perforation Intervals

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com

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AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 2/14/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
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Job Information

Job Category COMPLETION	Primary Job Type COMPLETION - ORIGINAL	Secondary Job Type	Start Date 12/3/2014	End Date
AFE Number DV02164	Supplemental AFE Number	Daily Field Est (Cost) 85,966	Cum Field Est (Cost)	466,527
Number of Stages (ft) 28	Lateral Length (ft)	Time Since LTI (days)	Time Since Reportable Incident (days)	

Daily Contacts

Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT
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Daily Operations

Operations Summary FINISH RIGGING UP ALL RELATED EQUIPMENT.PRESS TEST. FRAC STG'S 1 OF 28, PLUG AND PERF STG'S 2 OF 28
Planned Operations FRAC MULTIPLE STAGES.

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	15:30	10.50	10.50	RIG UP/DOWN	No	MIRU FTS AND ALL RELATED FRAC EQUIPMENT. FILL SAND KINGS,		
15:30	16:00	0.50	11.00	PRESSURE TEST	No	PRIME UP AND PRESS TEST TO 9000 PSI,SET POP OFF AT 8500 PSI.		
16:00	19:30	3.50	14.50	RIG UP/DOWN	No	INSTALL RESTRAINTS ON FRAC IRON DOWN JTS.		
19:30	22:15	2.75	17.25	GENERAL OPERATIONS	No	WAITING ON SIM OPS ON 0818H		
22:15	00:15	2.00	19.25	FRAC. JOB	No	FRAC STG 1 OF 28, 100% PROP PLACED		
00:15	01:45	1.50	20.75	PERFORATING	No	PLUG AND PERF STAGE #2		
01:45	02:30	0.75	21.50	GENERAL OPERATIONS	No	WAITING ON SIM OPS ON 0818H		
02:30	04:00	1.50	23.00	DOWNTIME	No	WAITING ON FTSI TO REPLACE HYDRAULIC HOSE ON T-BELT.		Yes
04:00	05:00	1.00	24.00	FRAC. JOB	No	FRACING STAGE 2 OF 28 AT REPORT TIME		

NPT

Typ	SubTyp	Des	Start Date	End Date	Failed Item	Accountable Party	Dur (hr)
SURFACE EQUIPMENT	FRAC AUXILIARY EQUIP	WAITING ON FTSI TO REPLACE HYDRAULIC HOSE ON T-BEL	2/14/2015 02:30	2/14/2015 04:00			1.50

Safety Checks

Time	Type	Inspected By	Description
06:00	SPUD MEETING	ROQUE/TOMMY	TALK ABOUT RIGGING UP FRAC AND WL EQUIPMENT.
17:45	SAFETY MEETING	EDDIE LEASURE/CODY O'KEEFE	PRESSURE TEST, SLIP TRIPS AND FALL.

Plug Details

Des	Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com
FRAC PLUG	13,144.0	13,146.0			2/14/2015		SOLID PLUG

Perforation Intervals

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com
01:30	WOLFCAMP B, ORIGINAL HOLE	12,984.0	12,985.0	6.0	3 1/8	
01:30	WOLFCAMP B, ORIGINAL HOLE	13,019.0	13,020.2	6.0	3 1/8	
01:30	WOLFCAMP B, ORIGINAL HOLE	13,054.0	13,055.2	6.0	3 1/8	
01:30	WOLFCAMP B, ORIGINAL HOLE	13,089.0	13,090.2	6.0	3 1/8	
01:30	WOLFCAMP B, ORIGINAL HOLE	13,124.0	13,125.3	6.0	3 1/8	

Stimulations & Treatments

STAGE 1 - HYDRAULIC FRAC on 2/13/2015 23:52

Date	Type					Zone			Stim/Treat Company			Comment		
2/13/2015	HYDRAULIC FRAC					WOLFCAMP B, ORIGINAL HOLE			FTS INTERNATIONAL					
P Pre SI (psi) 2,841.0	ISIP (psi) 3,103.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,306.0	BD Rate (bbl/min) 10	Q Treat Min... 55	Q Treat Max... 75	Q Treat Avg... 71	Avg Treat Pressure (psi) 6,855.0	Proppant Debris (lb) 245,000	Proppant Placed (lb) 244,400	
Max Treat Pressure (psi) 7,584.0			Avg Treat Pressure (psi) 6,855.0			Max Treat Rate (bbl/min) 75			Avg Treat Rate (bbl/min) 71			V clean+slurry (bbl) 5779.00		

Total Add Amount
BACTERICIDE ICI-3240 65 gal; CORROSION INHIBITOR CI-350 HT 6 gal; EMUSIFIER NE-100W 6 gal; FRICTION REDUCER FRW-200 278 gal; IRON CONTROL FE-200L 2 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 210400 lb



AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 2/15/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date	
Job Information									
Job Category COMPLETION			Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date
AFE Number DV02164			Supplemental AFE Number			Daily Field Est (Cost) 173,518		Cum Field Est (Cost) 640,046	
Number of Stages (ft) 28			Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)	
Daily Contacts									
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT									
Daily Operations									
Operations Summary FRAC STG'S #2,3,4, AND PERF STG'S #3,4,5,									
Planned Operations FRAC MULTIPLE STAGES.									
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments		Unschd Typ	NPT
05:00	05:45	0.75	0.75	FRAC. JOB	No	FRAC STG 2 OF 28, 90% PROP PLACED			
05:45	06:15	0.50	1.25	GENERAL OPERATIONS	No	WELL SWAP			
06:15	07:30	1.25	2.50	PERFORATING	No	PLUG AND PERF STAGE #3.			
07:30	08:00	0.50	3.00	GENERAL OPERATIONS	No	SIM OPS ON 0818H.			
08:00	08:30	0.50	3.50	GENERAL OPERATIONS	No	WELL SWAP			
08:30	10:00	1.50	5.00	FRAC. JOB	No	FRAC STG 3 OF 28, 100% PROP PLACED			
10:00	12:00	2.00	7.00	GENERAL OPERATIONS	No	GREASE AND TORQUE THE FRAC STACK AND MANIFOLD. WL TO REHEAD.			
12:00	13:00	1.00	8.00	PERFORATING	No	PLUG AND PERF STAGE #4.			
13:00	13:45	0.75	8.75	GENERAL OPERATIONS	No	SIM OPS ON 0818H.			
13:45	14:00	0.25	9.00	GENERAL OPERATIONS	No	WELL SWAP.			
14:00	15:30	1.50	10.50	FRAC. JOB	No	FRAC STG 4 OF 28, 100% PROP PLACED			
15:30	16:00	0.50	11.00	GENERAL OPERATIONS	No	WELL SWAP			
16:00	17:00	1.00	12.00	PERFORATING	No	PLUG AND PERF STAGE #5.			
17:00	17:30	0.50	12.50	GENERAL OPERATIONS	No	SIM OPS ON 0818H.			
17:30	18:00	0.50	13.00	GENERAL OPERATIONS	No	WELL SWAP			
18:00	05:00	11.00	24.00	DOWNTIME	No	WASH/CLEAN OUT MANUAL VALVE ON ZIPPER, NOT OPENING/CLOSING ALL THE WAY. REPLACEMENT SKID WITH 1/2 OF ZIPPER MANIFOLD ON WAY TO LOC. CONTINUE WITH SINGLE WELL OPS ON 0818H UNTIL ZIPPER REPLACED.			Yes
NPT									
Typ		SubTyp		Des		Start Date		End Date	
SURFACE EQUIPMENT		WELLHEAD		ZIPPER MANIFOLD		2/14/2015 18:00		2/15/2015 05:00	
Failed Item		Accountable Party		Dur (hr)					
		PRIORITY (STACK SERVICES)		11.00					
Safety Checks									
Time		Type				Inspected By		Description	
05:45		SAFETY MEETING				ROQUE/TOMMY		DISCUSE DAILY OPERATIONS AND RELATED HAZARDS	
Plug Details									
Des		Top (ftKB)		Btm (ftKB)		OD (in)		ID (in)	
FRAC PLUG		12,967.0		12,969.0					
FRAC PLUG		12,790.0		12,792.0					
FRAC PLUG		12,620.0		12,622.0					
Perforation Intervals									
Time		Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)	
16:30		WOLFCAMP B, ORIGINAL HOLE		12,459.0		12,460.0		6.0	
16:30		WOLFCAMP B, ORIGINAL HOLE		12,494.0		12,495.2		7.0	
16:30		WOLFCAMP B, ORIGINAL HOLE		12,529.0		12,530.2		7.0	
16:30		WOLFCAMP B, ORIGINAL HOLE		12,562.0		12,563.2		7.0	
16:30		WOLFCAMP B, ORIGINAL HOLE		12,599.0		12,600.3		8.0	
12:45		WOLFCAMP B, ORIGINAL HOLE		12,634.0		12,635.0		6.0	
12:45		WOLFCAMP B, ORIGINAL HOLE		12,669.0		12,670.2		7.0	
12:45		WOLFCAMP B, ORIGINAL HOLE		12,701.0		12,702.2		7.0	
12:45		WOLFCAMP B, ORIGINAL HOLE		12,739.0		12,740.2		7.0	
12:45		WOLFCAMP B, ORIGINAL HOLE		12,774.0		12,775.3		8.0	
07:00		WOLFCAMP B, ORIGINAL HOLE		12,809.0		12,810.0		6.0	
07:00		WOLFCAMP B, ORIGINAL HOLE		12,844.0		12,845.2		7.0	
07:00		WOLFCAMP B, ORIGINAL HOLE		12,879.0		12,880.2		7.0	
07:00		WOLFCAMP B, ORIGINAL HOLE		12,914.0		12,915.2		7.0	
07:00		WOLFCAMP B, ORIGINAL HOLE		12,949.0		12,950.3		8.0	
Stimulations & Treatments									
STAGE 2 - HYDRAULIC FRAC on 2/14/2015 05:37									
Date 2/14/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL	
Comment									
P Pre SI (psi) 2,592.0	ISIP (psi) 3,726.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,219.0	BD Rate (bbl/min) 10	Q Treat Min... 43	Q Treat Max... 77
Q Treat Avg... 71		Avg Treat Pr... 5,911.0		Proppant De... 245,000		Prop Placed... 221,220			
Max Treat Pressure (psi) 6,668.0			Avg Treat Pressure (psi) 5,911.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 71
V clean+slurry (bbl) 5426.00									
Total Add Amount CS POLYBREAK 210 0 gal; FRW-200 225 gal; ICI-3240 65 gal; NE-100 0 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 187220 lb									
STAGE 3 - HYDRAULIC FRAC on 2/14/2015 09:56									
Date 2/14/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL	
Comment									
P Pre SI (psi) 2,680.0	ISIP (psi) 3,857.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,630.0	BD Rate (bbl/min) 10	Q Treat Min... 74	Q Treat Max... 76
Q Treat Avg... 75		Avg Treat Pr... 5,687.0		Proppant De... 245,000		Prop Placed... 245,180			
Max Treat Pressure (psi) 6,531.0			Avg Treat Pressure (psi) 5,687.0			Max Treat Rate (bbl/min) 76			Avg Treat Rate (bbl/min) 75
V clean+slurry (bbl) 5228.00									
Total Add Amount FRW-200 164 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34080 lb; PROPPANT 40/70 WHITE 211100 lb									
STAGE 4 - HYDRAULIC FRAC on 2/14/2015 15:29									
Date 2/14/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL	
Comment									
P Pre SI (psi) 2,624.0	ISIP (psi) 3,477.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,138.0	BD Rate (bbl/min) 10	Q Treat Min... 68	Q Treat Max... 77
Q Treat Avg... 74		Avg Treat Pr... 5,582.0		Proppant De... 245,000		Prop Placed... 244,960			
Max Treat Pressure (psi) 7,054.0			Avg Treat Pressure (psi) 5,582.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 74
V clean+slurry (bbl) 5410.00									
Total Add Amount FRW-200 199 gal; ICI-3240 69 gal; PROPPANT 100 MESH 34020 lb; PROPPANT 40/70 WHITE 210940 lb									
STAGE 5 - HYDRAULIC FRAC on 2/14/2015 19:00									
Date 2/14/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL	
Comment									
P Pre SI (psi) 0.0	ISIP (psi) 0.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 0.0	BD Rate (bbl/min) 10	Q Treat Min... 0	Q Treat Max... 0
Q Treat Avg... 0		Avg Treat Pr... 0.0		Proppant De... 245,000		Prop Placed... 0			
Max Treat Pressure (psi) 0.0			Avg Treat Pressure (psi) 0.0			Max Treat Rate (bbl/min) 0			Avg Treat Rate (bbl/min) 0
V clean+slurry (bbl) 293.00									
Total Add Amount FRW-200 0 gal; ICI-3240 0 gal; PROPPANT 100 MESH 0 lb; PROPPANT 40/70 WHITE 0 lb									

UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date					
AFE Number DV02164		Supplemental AFE Number			Daily Field Est (Cost) 164,764		Cum Field Est (Cost) 804,810						
Number of Stages (ft) 28		Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts													
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT													
Daily Operations													
Operations Summary FRAC SATGES 5,6,7 AND PERF STAGES 6,7,8													
Planned Operations FRAC MULTIPLE STAGES													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT					
05:00	11:00	6.00	6.00	DOWNTIME	No	SWAPING OUT ZIPPER MANIFOLD		Yes					
11:00	12:45	1.75	7.75	GENERAL OPERATIONS	No	GREASE,TOQUE MANIFOLD,FRAC STACKS AND WL TO REHEAD.							
12:45	13:15	0.50	8.25	PRESSURE TEST	No	PRESS TEST,MANIFOLD,DOWN JTS AND FRAC STACK.							
13:15	14:45	1.50	9.75	FRAC. JOB	No	FRAC STG 5 OF 28, 100% PROP PLACED							
14:45	15:15	0.50	10.25	GENERAL OPERATIONS	No	WELL SWAP							
15:15	16:30	1.25	11.50	PERFORATING	No	PLUG AND PERF STAGE #6 OF 28.							
16:30	17:00	0.50	12.00	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
17:00	17:15	0.25	12.25	GENERAL OPERATIONS	No	WELL SWAP							
17:15	18:45	1.50	13.75	FRAC. JOB	No	FRAC STG #6 OF 28, 100% PROP PLACED							
18:45	20:00	1.25	15.00	PERFORATING	No	PLUG AND PERF #7 OF 28							
20:00	20:45	0.75	15.75	GENERAL OPERATIONS	No	WAITING ON SIM OPS							
20:45	21:45	1.00	16.75	GENERAL OPERATIONS	No	WIRELINE REHEAD							
21:45	22:45	1.00	17.75	DOWNTIME	No	WAITING ON CASEDHOLE TO REPLACE BEARING ON WIRELINE SPOOL.		Yes					
22:45	01:30	2.75	20.50	FRAC. JOB	No	FRAC STAGE #7 OF 28, 7% OF PROP PLACED. ONLY PLACED 18,000 POUNDS OF 100 MESH DUE TO PRESSURE.							
01:30	02:45	1.25	21.75	PERFORATING	No	PLUG AND PERF STAGE #8							
02:45	03:45	1.00	22.75	GENERAL OPERATIONS	No	WAITING ON SIM OPS ON 0818H							
03:45	05:00	1.25	24.00	GENERAL OPERATIONS	No	GREASING FRAC STACK AND ZIPPER MANIFOLD.							
NPT													
Type	SubTyp	Des			Start Date	End Date	Failed Item	Accountable Party	Dur (hr)				
SURFACE EQUIPMENT	WELLHEAD	ZIPPER MANIFOLD			2/14/2015 18:00	2/15/2015 05:00		PRIORITY (STACK SERVICES)	11.00				
SURFACE EQUIPMENT	WELLHEAD	ZIPPER MANIFOLD			2/15/2015 05:00	2/15/2015 11:00		PRIORITY (STACK SERVICES)	6.00				
SURFACE EQUIPMENT	WIRELINE	REPLACE BEARING ON WIRELINE SPOOL			2/15/2015 21:45	2/15/2015 22:45		CASEDHOLE SOLUTIONS, INC.	1.00				
Safety Checks													
Time	Type				Inspected By		Description						
05:45	SAFETY MEETING				ROQUE/TOMMY		DISCUSE DAILY OPERATIONS AND RELATED HAZARDS						
17:45	SAFETY MEETING				EDDIE LEASURE/CODY O'KEEFE		DISCUSE DAILY OPERATIONS AND RELATED HAZARDS						
Plug Details													
Des	Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com						
FRAC PLUG	12,444.0	12,446.0			2/15/2015		WEATHERFORD PLUGS.						
FRAC PLUG	12,269.0	12,271.0			2/15/2015		WEATHERFORD PLUGS.						
FRAC PLUG	12,094.0	12,096.0			2/15/2015		WEATHERFORD PLUGS.						
Perforation Intervals													
Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com							
02:30	WOLFCAMP B, ORIGINAL HOLE	11,934.0	11,935.0	6.0	3 1/8								
02:30	WOLFCAMP B, ORIGINAL HOLE	11,969.0	11,970.2	6.0	3 1/8								
02:30	WOLFCAMP B, ORIGINAL HOLE	12,004.0	12,005.2	6.0	3 1/8								
02:30	WOLFCAMP B, ORIGINAL HOLE	12,039.0	12,040.2	6.0	3 1/8								
02:30	WOLFCAMP B, ORIGINAL HOLE	12,068.0	12,069.3	6.0	3 1/8								
19:45	WOLFCAMP B, ORIGINAL HOLE	12,109.0	12,110.0	6.0	3 1/8								
19:45	WOLFCAMP B, ORIGINAL HOLE	12,144.0	12,145.2	6.0	3 1/8								
19:45	WOLFCAMP B, ORIGINAL HOLE	12,179.0	12,180.2	6.0	3 1/8								
19:45	WOLFCAMP B, ORIGINAL HOLE	12,214.0	12,215.2	6.0	3 1/8								
19:45	WOLFCAMP B, ORIGINAL HOLE	12,249.0	12,250.3	6.0	3 1/8								
16:00	WOLFCAMP B, ORIGINAL HOLE	12,284.0	12,285.0	6.0	3 1/8								
16:00	WOLFCAMP B, ORIGINAL HOLE	12,319.0	12,320.2	7.0	3 1/8								
16:00	WOLFCAMP B, ORIGINAL HOLE	12,354.0	12,355.2	7.0	3 1/8								
16:00	WOLFCAMP B, ORIGINAL HOLE	12,385.0	12,386.2	7.0	3 1/8								
16:00	WOLFCAMP B, ORIGINAL HOLE	12,424.0	12,425.3	8.0	3 1/8								
Stimulations & Treatments													
STAGE 5 - HYDRAULIC FRAC on 2/15/2015 14:40													
Date 2/15/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 1,919.0	ISIP (psi) 3,421.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,356.0	BD Rate (bbl/min) 10	Q Treat Min... 67	Q Treat Max... 78	Q Treat Avg... 74	Avg Treat Pr... 5,862.0	Proppant De... 245,000	Prop Placed... 244,620
Max Treat Pressure (psi) 7,273.0			Avg Treat Pressure (psi) 5,862.0			Max Treat Rate (bbl/min) 78			Avg Treat Rate (bbl/min) 74			V clean+slurry (bbl) 5295.00	
Total Add Amount FRW-200 171 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34080 lb; PROPPANT 40/70 WHITE 210540 lb													
STAGE 6 - HYDRAULIC FRAC on 2/15/2015 18:37													
Date 2/15/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,710.0	ISIP (psi) 3,807.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,618.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 77	Q Treat Avg... 75	Avg Treat Pr... 5,945.0	Proppant De... 245,000	Prop Placed... 249,880
Max Treat Pressure (psi) 7,565.0			Avg Treat Pressure (psi) 5,945.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5335.00	
Total Add Amount FRW-200 191 gal; ICI-3240 69 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 215880 lb													
STAGE 7 - HYDRAULIC FRAC on 2/16/2015 01:30													
Date 2/16/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,711.0	ISIP (psi) 3,845.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 5,434.0	BD Rate (bbl/min) 10	Q Treat Min... 36	Q Treat Max... 53	Q Treat Avg... 43	Avg Treat Pr... 7,027.0	Proppant De... 245,000	Prop Placed... 18,000
Max Treat Pressure (psi) 7,821.0			Avg Treat Pressure (psi) 7,027.0			Max Treat Rate (bbl/min) 53			Avg Treat Rate (bbl/min) 43			V clean+slurry (bbl) 5030.00	
Total Add Amount FRW-200 213 gal; ICI-3240 61 gal; PROPPANT 100 MESH 18000 lb; PROPPANT 40/70 WHITE 0 lb													



AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

Report Date 2/17/2015
AFE # DV02164
Total AFE 5,235,000

AMERICAN ENERGY
PARTNERS

UNIVERSITY 09 0817H
AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date					
AFE Number DV02164		Supplemental AFE Number			Daily Field Est (Cost) 214,673		Cum Field Est (Cost) 1,041,641						
Number of Stages (ft) 28		Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts													
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT													
Daily Operations													
Operations Summary FRAC STG'S #8,9,10,11 AND PERF STAGES #9,10,11,12													
Planned Operations FRAC MULTIPLE STAGES													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT					
05:00	06:45	1.75	1.75	GENERAL OPERATIONS	No	GREASE FRAC STAK,MANIFOLD AND WL TO REHEAD.							
06:45	08:15	1.50	3.25	GENERAL OPERATIONS	No	FRAC STAGE #8 OF 28, 100% OF PROP PLACED.							
08:15	08:45	0.50	3.75	GENERAL OPERATIONS	No	WELL SWAP							
08:45	10:00	1.25	5.00	PERFORATING	No	PLUG AND PERF #9 OF 28							
10:00	10:15	0.25	5.25	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
10:15	10:45	0.50	5.75	GENERAL OPERATIONS	No	WELL SWAP							
10:45	12:15	1.50	7.25	FRAC. JOB	No	FRAC STAGE #9 OF 28, 90% OF PROP PLACED. POP OFF RELEASED @ 7,500. DURING FLUSH POP OFF WASHED OUT. REPLACING POP OFF AND TANK. (POP OFF TANK ONLY @ 200 PSI WAS THE CAUSE FOR EARLY RELEASE)							
12:15	12:45	0.50	7.75	GENERAL OPERATIONS	No	WELL SWAP							
12:45	13:45	1.00	8.75	PERFORATING	No	PLUG AND PERF #10 OF 28							
13:45	15:15	1.50	10.25	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
15:15	15:45	0.50	10.75	GENERAL OPERATIONS	No	WELL SWAP							
15:45	17:15	1.50	12.25	FRAC. JOB	No	FRAC STAGE #10 OF 28, 95% OF PROP PLACED DUE TO PRESSURE							
17:15	17:45	0.50	12.75	GENERAL OPERATIONS	No	WELL SWAP							
17:45	18:45	1.00	13.75	PERFORATING	No	PLUG AND PERF STG #11 OF 28							
18:45	19:00	0.25	14.00	GENERAL OPERATIONS	No	WAITING ON SIM OPS ON 09-0818H							
19:00	22:00	3.00	17.00	GENERAL OPERATIONS	No	GREASE FRAC STACK AND ZIPPER							
22:00	23:30	1.50	18.50	FRAC. JOB	No	FRAC STAGE #11 OF 28, 84% OF PROP PLACED DUE TO PRESSURE							
23:30	01:00	1.50	20.00	GENERAL OPERATIONS	No	SWAPING OUT CRANE							
01:00	02:30	1.50	21.50	PERFORATING	No	PLUG AND PERF STG #12 OF 28							
02:30	03:45	1.25	22.75	GENERAL OPERATIONS	No	WAITING ON SIM OPS ON THE 09-0818H							
03:45	05:00	1.25	24.00	FRAC. JOB	No	FRACING STAGE #13 AT REPORT TIME							
Safety Checks													
Time		Type			Inspected By		Description						
05:45		SAFETY MEETING			ROQUE/TOMMY		DISCUSS DAILY OPERATIONS AND RELATED HAZARDS						
17:45		SAFETY MEETING			EDDIE LEASURE/CODY O'KEEFE		DISCUSE DAILY OPERATIONS AND RELATED HAZARDS						
Plug Details													
Des		Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com					
FRAC PLUG		11,924.0	11,926.0			2/16/2015		WEATHERFORD PLUGS.					
FRAC PLUG		11,744.0	11,746.0			2/16/2015		WEATHERFORD PLUGS.					
FRAC PLUG		11,569.0	11,571.0			2/16/2015		WEATHERFORD PLUGS.					
FRAC PLUG		11,394.0	11,395.0			2/17/2015		WEATHERFORD PLUGS.					
Perforation Intervals													
Time	Zone			Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com					
01:45	WOLFCAMP B, ORIGINAL HOLE			11,234.0	11,235.0	6.0	3 1/8						
01:45	WOLFCAMP B, ORIGINAL HOLE			11,269.0	11,270.2	6.0	3 1/8						
01:45	WOLFCAMP B, ORIGINAL HOLE			11,304.0	11,305.2	6.0	3 1/8						
01:45	WOLFCAMP B, ORIGINAL HOLE			11,339.0	11,340.2	6.0	3 1/8						
01:45	WOLFCAMP B, ORIGINAL HOLE			11,370.0	11,371.3	6.0	3 1/8						
18:00	WOLFCAMP B, ORIGINAL HOLE			11,409.0	11,410.0	6.0	3 1/8						
18:00	WOLFCAMP B, ORIGINAL HOLE			11,444.0	11,445.2	6.0	3 1/8						
18:00	WOLFCAMP B, ORIGINAL HOLE			11,479.0	11,480.2	6.0	3 1/8						
18:00	WOLFCAMP B, ORIGINAL HOLE			11,515.0	11,516.2	6.0	3 1/8						
18:00	WOLFCAMP B, ORIGINAL HOLE			11,549.0	11,550.3	6.0	3 1/8						
13:15	WOLFCAMP B, ORIGINAL HOLE			11,584.0	11,585.0	6.0	3 1/8						
13:15	WOLFCAMP B, ORIGINAL HOLE			11,619.0	11,620.2	6.0	3 1/8						
13:15	WOLFCAMP B, ORIGINAL HOLE			11,654.0	11,655.2	6.0	3 1/8						
13:15	WOLFCAMP B, ORIGINAL HOLE			11,688.0	11,689.2	6.0	3 1/8						
13:15	WOLFCAMP B, ORIGINAL HOLE			11,724.0	11,725.3	6.0	3 1/8						
09:15	WOLFCAMP B, ORIGINAL HOLE			11,759.0	11,760.0	6.0	3 1/8						
09:15	WOLFCAMP B, ORIGINAL HOLE			11,794.0	11,795.2	6.0	3 1/8						
09:15	WOLFCAMP B, ORIGINAL HOLE			11,824.0	11,825.2	6.0	3 1/8						
09:15	WOLFCAMP B, ORIGINAL HOLE			11,864.0	11,865.2	6.0	3 1/8						
09:15	WOLFCAMP B, ORIGINAL HOLE			11,899.0	11,900.3	6.0	3 1/8						
Stimulations & Treatments													
STAGE 8 - HYDRAULIC FRAC on 2/16/2015 08:08													
Date 2/16/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,692.0	ISIP (psi) 3,589.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,518.0	BD Rate (bbl... 10	Q Treat Min... 69	Q Treat Max... 76	Q Treat Avg... 74	Avg Treat Pr... 6,539.0	Proppant De... 245,000	Prop Placed... 245,480
Max Treat Pressure (psi)		Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)		Avg Treat Rate (bbl/min)		V clean+slurry (bbl)		5115.00		
7,428.0		6,539.0			76		74		74		5115.00		
Total Add Amount FRW-200 221 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34040 lb; PROPPANT 40/70 WHITE 211440 lb													
STAGE 9 - HYDRAULIC FRAC on 2/16/2015 12:15													
Date 2/16/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment Pop off released at 7,500 psi, cut sand went to flush. flushed well till pop off washed. SD to SI Pop off and completed flush w/ 50 bbls over.					
P Pre SI (psi) 2,767.0	ISIP (psi) 3,801.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 5,179.0	BD Rate (bbl... 10	Q Treat Min... 73	Q Treat Max... 77	Q Treat Avg... 74	Avg Treat Pr... 5,990.0	Proppant De... 245,000	Prop Placed... 220,340
Max Treat Pressure (psi)		Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)		Avg Treat Rate (bbl/min)		V clean+slurry (bbl)		5114.00		
7,578.0		5,990.0			77		74		74		5114.00		
Total Add Amount FRW-200 179 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34200 lb; PROPPANT 40/70 WHITE 186140 lb													
STAGE 10 - HYDRAULIC FRAC on 2/16/2015 17:05													
Date 2/16/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,779.0	ISIP (psi) 3,770.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 5,135.0	BD Rate (bbl... 10	Q Treat Min... 53	Q Treat Max... 76	Q Treat Avg... 73	Avg Treat Pr... 6,115.0	Proppant De... 245,000	Prop Placed... 233,000
Max Treat Pressure (psi)		Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)		Avg Treat Rate (bbl/min)		V clean+slurry (bbl)		5143.00		
7,678.0		6,115.0			76		73		73		5143.00		
Total Add Amount FRW-200 187 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34200 lb; PROPPANT 40/70 WHITE 198800 lb													



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	2/17/2015
AFE #	DV02164
Total AFE	5,235,000

Stimulations & Treatments													
STAGE 11 - HYDRAULIC FRAC on 2/16/2015 23:30													
Date	Type	Zone				Stim/Treat Company			Comment				
2/16/2015	HYDRAULIC FRAC	WOLFCAMP B, ORIGINAL HOLE				FTS INTERNATIONAL							
P Pre SI (psi)	ISIP (psi)	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi)	BD Rate (bbl...)	Q Treat Min...	Q Treat Max...	Q Treat Avg...	Avg Treat Pr...	Proppant De...	Prop Placed...
2,698.0	3,334.0					4,343.0	10	40	78	74	5,939.0	245,000	204,200
Max Treat Pressure (psi)			Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)			Avg Treat Rate (bbl/min)			V clean+slurry (bbl)	
7,665.0			5,939.0			78			74			4850.00	
Total Add Amount													
FRW-200 160 gal; ICI-3240 61 gal; PROPPANT 100 MESH 35000 lb; PROPPANT 40/70 WHITE 169200 lb													

UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date					
AFE Number DV02164		Supplemental AFE Number			Daily Field Est (Cost) 320,278		Cum Field Est (Cost) 1,357,067						
Number of Stages (ft) 28		Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts													
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; COMP SUP, EDDIE LEASURE, CRSCNT; WO SUP, ROQUE DE LA TORRE, CRSCNT													
Daily Operations													
Operations Summary FRAC STAGES #12,13,14,15,16,17 PERF STAGES #13,14,15,16,17													
Planned Operations FRAC MULTIPLE STAGES													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments		Unschd Typ	NPT				
05:00	05:15	0.25	0.25	FRAC. JOB	No	FRAC STAGE #12 OF 28, 100% OF PROP PLACED							
05:15	06:30	1.25	1.50	PERFORATING	No	PLUG AND PERF STAGE # 13 OF 28							
06:30	07:30	1.00	2.50	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
07:30	08:00	0.50	3.00	GENERAL OPERATIONS	No	WELL SWAP							
08:00	09:30	1.50	4.50	FRAC. JOB	No	FRAC STAGE #13 OF 28, 100% OF PROP PLACED							
09:30	10:30	1.00	5.50	GENERAL OPERATIONS	No	GREASE AND TORQUE FRAC STACK,MANIFOLD AND WL TO REHEAD.							
10:30	11:30	1.00	6.50	PERFORATING	No	PLUG AND PERF STAGE # 14 OF 28							
11:30	12:15	0.75	7.25	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
12:15	12:30	0.25	7.50	GENERAL OPERATIONS	No	WELL SWAP							
12:30	14:00	1.50	9.00	FRAC. JOB	No	FRAC STAGE #14 OF 28, 100% OF PROP PLACED							
14:00	15:15	1.25	10.25	PERFORATING	No	PLUG AND PERF STAGE # 15 OF 28							
15:15	16:00	0.75	11.00	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
16:00	16:45	0.75	11.75	GENERAL OPERATIONS	No	WELL SWAP							
16:45	18:15	1.50	13.25	FRAC. JOB	No	FRAC STAGE #15 OF 28, 100% OF PROP PLACED							
18:15	21:00	2.75	16.00	GENERAL OPERATIONS	No	GREASE AND TORQUE 0818 & 0817 AND ZIPPER MANIFOLD. WIRELINE RE HEAD							
21:00	22:00	1.00	17.00	PERFORATING	No	PLUG AND PERF STAGE # 16 OF 28							
22:00	22:45	0.75	17.75	GENERAL OPERATIONS	No	SIM OPS ON 0818H							
22:45	23:00	0.25	18.00	GENERAL OPERATIONS	No	WELL SWAP							
23:00	23:30	0.50	18.50	DOWNTIME	No	MANUAL VALVE ON ZIPPER MANIFOLD NOT OPENING ALL THE WAY. RE GREASE AND WORKING IT OPEN AND CLOSE			Yes				
23:30	01:00	1.50	20.00	FRAC. JOB	No	FRAC STAGE #16 OF28, 100% OF PROP PLACED							
01:00	01:15	0.25	20.25	GENERAL OPERATIONS	No	WELL SWAP							
01:15	02:15	1.00	21.25	PERFORATING	No	PLUG AND PERF STAGE #17 OF 28							
02:15	03:15	1.00	22.25	GENERAL OPERATIONS	No	SIM OPS ON 0818H							
03:15	03:30	0.25	22.50	GENERAL OPERATIONS	No	WELL SWAP							
03:30	05:00	1.50	24.00	FRAC. JOB	No	FRAC STAGE #17 OF 28, 100% OF PROP PLACED							
NPT													
Typ	SubTyp	Des			Start Date	End Date	Failed Item	Accountable Party	Dur (hr)				
SURFACE EQUIPMENT	WELLHEAD	ZIPPER MANIFOLD			2/17/2015 23:00	2/17/2015 23:30		PRIORITY (STACK SERVICES)	0.50				
Safety Checks													
Time	Type				Inspected By		Description						
05:45	SAFETY MEETING				ROQUE/TOMMY		PRE TOUR SM						
17:45	SAFETY MEETING				SETH MILLER		PRE TOUR SM						
Plug Details													
Des		Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com					
FRAC PLUG		11,219.0	11,221.0			2/17/2015		WEATHERFORD PLUGS.					
FRAC PLUG		11,044.0	11,046.0			2/17/2015		WEATHERFORD PLUGS.					
FRAC PLUG		10,868.0	10,870.0			2/17/2015		WEATHERFORD PLUGS.					
FRAC PLUG		10,687.0	10,689.0			2/17/2015		WEATHERFORD PLUGS.					
FRAC PLUG		10,506.0	10,507.0			2/18/2015		WEATHERFORD PLUGS.					
Perforation Intervals													
Time	Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)		Gun Size (in)	Com			
01:45	WOLFCAMP B, ORIGINAL HOLE		10,354.0		10,355.0		6.0		3 1/8				
01:45	WOLFCAMP B, ORIGINAL HOLE		10,394.0		10,395.0		6.0		3 1/8				
01:45	WOLFCAMP B, ORIGINAL HOLE		10,429.0		10,430.0		6.0		3 1/8				
01:45	WOLFCAMP B, ORIGINAL HOLE		10,464.0		10,465.0		6.0		3 1/8				
01:45	WOLFCAMP B, ORIGINAL HOLE		10,492.0		10,493.0		6.0		3 1/8				
21:45	WOLFCAMP B, ORIGINAL HOLE		10,534.0		10,535.0		6.0		3 1/8				
21:45	WOLFCAMP B, ORIGINAL HOLE		10,569.0		10,570.0		6.0		3 1/8				
21:45	WOLFCAMP B, ORIGINAL HOLE		10,603.0		10,604.0		6.0		3 1/8				
21:45	WOLFCAMP B, ORIGINAL HOLE		10,636.0		10,637.0		6.0		3 1/8				
21:45	WOLFCAMP B, ORIGINAL HOLE		10,671.0		10,672.0		6.0		3 1/8				
14:45	WOLFCAMP B, ORIGINAL HOLE		10,709.0		10,710.0		6.0		3 1/8				
14:45	WOLFCAMP B, ORIGINAL HOLE		10,745.0		10,746.2		7.0		3 1/8				
14:45	WOLFCAMP B, ORIGINAL HOLE		10,779.0		10,780.2		7.0		3 1/8				
14:45	WOLFCAMP B, ORIGINAL HOLE		10,814.0		10,815.2		7.0		3 1/8				
14:45	WOLFCAMP B, ORIGINAL HOLE		10,849.0		10,850.3		8.0		3 1/8				
11:15	WOLFCAMP B, ORIGINAL HOLE		10,884.0		10,885.0		6.0		3 1/8				
11:15	WOLFCAMP B, ORIGINAL HOLE		10,919.0		10,920.2		7.0		3 1/8				
11:15	WOLFCAMP B, ORIGINAL HOLE		10,954.0		10,955.2		7.0		3 1/8				
11:15	WOLFCAMP B, ORIGINAL HOLE		10,988.0		10,989.2		7.0		3 1/8				
11:15	WOLFCAMP B, ORIGINAL HOLE		11,020.0		11,021.3		8.0		3 1/8				
06:15	WOLFCAMP B, ORIGINAL HOLE		11,064.0		11,065.0		6.0		3 1/8				
06:15	WOLFCAMP B, ORIGINAL HOLE		11,094.0		11,095.2		7.0		3 1/8				
06:15	WOLFCAMP B, ORIGINAL HOLE		11,129.0		11,130.2		7.0		3 1/8				
06:15	WOLFCAMP B, ORIGINAL HOLE		11,164.0		11,165.2		7.0		3 1/8				
06:15	WOLFCAMP B, ORIGINAL HOLE		11,199.0		11,200.3		8.0		3 1/8				
Stimulations & Treatments													
STAGE 12 - HYDRAULIC FRAC on 2/17/2015 05:15													
Date 2/17/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL		Comment				
P Pre SI (psi) 2,729.0	ISIP (psi) 3,876.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,075.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 77	Q Treat Avg... 73	Avg Treat Pr... 5,980.0	Proppant De... 245,000	Prop Placed... 245,500
Max Treat Pressure (psi) 7,198.0			Avg Treat Pressure (psi) 5,980.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 73			V clean+slurry (bbl) 5193.00	
Total Add Amount FRW-200 198 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 211500 lb													

Stimulations & Treatments

STAGE 13 - HYDRAULIC FRAC on 2/17/2015 08:00

Date 2/17/2015	Type HYDRAULIC FRAC				Zone WOLFCAMP B, ORIGINAL HOLE				Stim/Treat Company FTS INTERNATIONAL			Comment		
P Pre SI (psi) 2,779.0	ISIP (psi) 3,639.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,057.0	BD Rate (bbl/min) 10	Q Treat Min... 73	Q Treat Max... 77	Q Treat Avg... 75	Avg Treat Pr... 5,588.0	Proppant De... 245,000	Prop Placed... 245,270	
Max Treat Pressure (psi) 6,948.0			Avg Treat Pressure (psi) 5,588.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5179.00		
Total Add Amount FRW-200 198 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34965 lb; PROPPANT 40/70 WHITE 210305 lb														

STAGE 14 - HYDRAULIC FRAC on 2/17/2015 12:30

Date 2/17/2015	Type HYDRAULIC FRAC				Zone WOLFCAMP B, ORIGINAL HOLE				Stim/Treat Company FTS INTERNATIONAL			Comment		
P Pre SI (psi) 2,773.0	ISIP (psi) 3,613.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,069.0	BD Rate (bbl/min) 10	Q Treat Min... 73	Q Treat Max... 77	Q Treat Avg... 75	Avg Treat Pr... 5,814.0	Proppant De... 245,000	Prop Placed... 247,633	
Max Treat Pressure (psi) 6,768.0			Avg Treat Pressure (psi) 5,814.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5205.00		
Total Add Amount FRW-200 198 gal; ICI-3240 69 gal; PROPPANT 100 MESH 34524 lb; PROPPANT 40/70 WHITE 213109 lb														

STAGE 15 - HYDRAULIC FRAC on 2/17/2015 16:45

Date 2/17/2015	Type HYDRAULIC FRAC				Zone WOLFCAMP B, ORIGINAL HOLE				Stim/Treat Company FTS INTERNATIONAL			Comment		
P Pre SI (psi) 2,723.0	ISIP (psi) 3,514.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,318.0	BD Rate (bbl/min) 10	Q Treat Min... 74	Q Treat Max... 76	Q Treat Avg... 74	Avg Treat Pr... 5,724.0	Proppant De... 245,000	Prop Placed... 245,080	
Max Treat Pressure (psi) 6,917.0			Avg Treat Pressure (psi) 5,724.0			Max Treat Rate (bbl/min) 76			Avg Treat Rate (bbl/min) 74			V clean+slurry (bbl) 5139.00		
Total Add Amount FRW-200 191 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34100 lb; PROPPANT 40/70 WHITE 245080 lb														

STAGE 16 - HYDRAULIC FRAC on 2/18/2015 00:52

Date 2/18/2015	Type HYDRAULIC FRAC				Zone WOLFCAMP B, ORIGINAL HOLE				Stim/Treat Company FTS INTERNATIONAL			Comment		
P Pre SI (psi) 2,642.0	ISIP (psi) 4,711.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,344.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 77	Q Treat Avg... 74	Avg Treat Pr... 5,709.0	Proppant De... 245,000	Prop Placed... 242,160	
Max Treat Pressure (psi) 7,111.0			Avg Treat Pressure (psi) 5,709.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 74			V clean+slurry (bbl) 5061.00		
Total Add Amount FRW-200 191 gal; ICI-3240 53 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 208160 lb														

STAGE 17 - HYDRAULIC FRAC on 2/18/2015 04:58

Date 2/18/2015	Type HYDRAULIC FRAC				Zone WOLFCAMP B, ORIGINAL HOLE				Stim/Treat Company FTS INTERNATIONAL			Comment		
P Pre SI (psi) 2,866.0	ISIP (psi) 3,420.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,206.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 78	Q Treat Avg... 75	Avg Treat Pr... 5,536.0	Proppant De... 245,000	Prop Placed... 244,600	
Max Treat Pressure (psi) 6,712.0			Avg Treat Pressure (psi) 5,536.0			Max Treat Rate (bbl/min) 78			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5151.00		
Total Add Amount FRW-200 191 gal; ICI-3240 65 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 210600 lb														

UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date					
AFE Number DV02164		Supplemental AFE Number			Daily Field Est (Cost) 226,866		Cum Field Est (Cost) 1,583,933						
Number of Stages (ft) 28		Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts													
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUPT, SETH MILLER, CRSCNT													
Daily Operations													
Operations Summary FRAC STAGES #18,19,20,21 PERF STAGES #18,19,20,21,22													
Planned Operations FRAC MULTIPLE STAGES													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments		Unschd Typ	NPT				
05:00	06:00	1.00	1.00	PERFORATING	No	PLUG AND PERF STAGE #18 OF 28							
06:00	07:15	1.25	2.25	GENERAL OPERATIONS	No	SIM OPS ON 0818H.							
07:15	08:45	1.50	3.75	FRAC. JOB	No	FRAC STAGE #18 OF 28, 100% OF PROP PLACED							
08:45	09:00	0.25	4.00	GENERAL OPERATIONS	No	SIM OPS ON 818H							
09:00	10:00	1.00	5.00	PERFORATING	No	PLUG AND PERF STAGE # 19 OF 28							
10:00	11:30	1.50	6.50	GENERAL OPERATIONS	No	GREASE AND TORQUE FRAC STACK AND ZIPPER MANIFOLD							
11:30	17:00	5.50	12.00	STANDBY	No	WAITING ON SIM OPS							
17:00	17:15	0.25	12.25	GENERAL OPERATIONS	No	SIM OPS							
17:15	18:45	1.50	13.75	FRAC. JOB	No	FRAC STAGE #19 OF 28, 100% OF PROP PLACED							
18:45	19:00	0.25	14.00	GENERAL OPERATIONS	No	SIM OPS							
19:00	20:30	1.50	15.50	PERFORATING	No	PLUG AND PERF STAGE #20 OF 28							
20:30	21:00	0.50	16.00	GENERAL OPERATIONS	No	SIM OPS							
21:00	22:30	1.50	17.50	FRAC. JOB	No	FRAC STAGE #20 OF 28. 100% OF PROP PLACED							
22:30	22:45	0.25	17.75	GENERAL OPERATIONS	No	SIM OPS							
22:45	00:15	1.50	19.25	PERFORATING	No	PLUG AND PERF STAGE #21 OF 28							
00:15	00:30	0.25	19.50	GENERAL OPERATIONS	No	SIM OPS							
00:30	02:15	1.75	21.25	FRAC. JOB	No	FRAC STAGE #21 OF 28. 94% PROP PLACED DUE TO PRESSURE							
02:15	02:30	0.25	21.50	GENERAL OPERATIONS	No	SIM OPS							
02:30	04:15	1.75	23.25	PERFORATING	No	PLUG AND PERF STAGE #22 OF 28							
04:15	04:30	0.25	23.50	GENERAL OPERATIONS	No	SIM OPS							
04:30	05:00	0.50	24.00	FRAC. JOB	No	FRAC STAGE #22 IN PROGRESS							
Safety Checks													
Time		Type			Inspected By		Description						
05:45		SAFETY MEETING			TOMMY/WES		PRE TOUR SM						
17:45		SAFETY MEETING			SETH MILLER		PRE TOUR SM						
Plug Details													
Des		Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com					
FRAC PLUG		10,344.0	10,346.0			2/18/2015		WEATHERFORD PLUGS.					
FRAC PLUG		10,169.0	10,171.0			2/18/2015		WEATHERFORD PLUGS.					
FRAC PLUG		9,990.0	9,992.0			2/18/2015		WEATHERFORD PLUGS.					
FRAC PLUG		9,809.0	9,811.0			2/18/2015		WEATHERFORD PLUGS.					
FRAC PLUG		9,642.0	9,644.0			2/19/2015		WEATHERFORD PLUGS.					
Perforation Intervals													
Time	Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)		Gun Size (in)	Com			
03:10	WOLFCAMP B, ORIGINAL HOLE		9,484.0		9,485.0		6.0		3 1/8				
03:10	WOLFCAMP B, ORIGINAL HOLE		9,519.0		9,520.0		6.0		3 1/8				
03:10	WOLFCAMP B, ORIGINAL HOLE		9,554.0		9,555.0		6.0		3 1/8				
03:10	WOLFCAMP B, ORIGINAL HOLE		9,589.0		9,590.0		6.0		3 1/8				
03:10	WOLFCAMP B, ORIGINAL HOLE		9,624.0		9,625.0		6.0		3 1/8				
23:15	WOLFCAMP B, ORIGINAL HOLE		9,659.0		9,660.0		6.0		3 1/8				
23:15	WOLFCAMP B, ORIGINAL HOLE		9,694.0		9,695.0		6.0		3 1/8				
23:15	WOLFCAMP B, ORIGINAL HOLE		9,729.0		9,730.0		6.0		3 1/8				
23:15	WOLFCAMP B, ORIGINAL HOLE		9,764.0		9,765.0		6.0		3 1/8				
23:15	WOLFCAMP B, ORIGINAL HOLE		9,796.0		9,797.0		6.0		3 1/8				
19:40	WOLFCAMP B, ORIGINAL HOLE		9,834.0		9,835.0		6.0		3 1/8				
19:40	WOLFCAMP B, ORIGINAL HOLE		9,869.0		9,870.0		6.0		3 1/8				
19:40	WOLFCAMP B, ORIGINAL HOLE		9,904.0		9,905.0		6.0		3 1/8				
19:40	WOLFCAMP B, ORIGINAL HOLE		9,938.0		9,939.0		6.0		3 1/8				
19:40	WOLFCAMP B, ORIGINAL HOLE		9,971.0		9,972.0		6.0		3 1/8				
09:30	WOLFCAMP B, ORIGINAL HOLE		10,009.0		10,010.0		6.0		3 1/8				
09:30	WOLFCAMP B, ORIGINAL HOLE		10,042.0		10,043.0		6.0		3 1/8				
09:30	WOLFCAMP B, ORIGINAL HOLE		10,079.0		10,080.0		6.0		3 1/8				
09:30	WOLFCAMP B, ORIGINAL HOLE		10,114.0		10,115.0		6.0		3 1/8				
09:30	WOLFCAMP B, ORIGINAL HOLE		10,149.0		10,150.0		6.0		3 1/8				
06:00	WOLFCAMP B, ORIGINAL HOLE		10,184.0		10,185.0		6.0		3 1/8				
06:00	WOLFCAMP B, ORIGINAL HOLE		10,219.0		10,220.0		6.0		3 1/8				
06:00	WOLFCAMP B, ORIGINAL HOLE		10,254.0		10,255.0		6.0		3 1/8				
06:00	WOLFCAMP B, ORIGINAL HOLE		10,289.0		10,290.0		6.0		3 1/8				
06:00	WOLFCAMP B, ORIGINAL HOLE		10,324.0		10,325.0		6.0		3 1/8				
Stimulations & Treatments													
STAGE 18 - HYDRAULIC FRAC on 2/18/2015 07:15													
Date 2/18/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,785.0	ISIP (psi) 3,676.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,106.0	BD Rate (bbl/min) 10	Q Treat Min... 75	Q Treat Max... 78	Q Treat Avg... 75	Avg Treat Pr... 5,648.0	Proppant De... 245,000	Prop Placed... 244,580
Max Treat Pressure (psi) 6,288.0			Avg Treat Pressure (psi) 5,648.0			Max Treat Rate (bbl/min) 78			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5067.00	
Total Add Amount FRW-200 168 gal; ICI-3240 65 gal; PROPPANT 100 MESH 34100 lb; PROPPANT 40/70 WHITE 211480 lb													
STAGE 19 - HYDRAULIC FRAC on 2/18/2015 18:40													
Date 2/18/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,604.0	ISIP (psi) 3,346.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,437.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 78	Q Treat Avg... 76	Avg Treat Pr... 5,433.0	Proppant De... 245,000	Prop Placed... 246,140
Max Treat Pressure (psi) 5,877.0			Avg Treat Pressure (psi) 5,433.0			Max Treat Rate (bbl/min) 78			Avg Treat Rate (bbl/min) 76			V clean+slurry (bbl) 5026.00	
Total Add Amount FRW-200 160 gal; ICI-3240 61 gal; PROPPANT 100 MESH 35000 lb; PROPPANT 40/70 WHITE 211140 lb													



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	2/19/2015
AFE #	DV02164
Total AFE	5,235,000

Stimulations & Treatments													
STAGE 20 - HYDRAULIC FRAC on 2/18/2015 22:30													
Date 2/18/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL		Comment			
P Pre SI (psi) 2,730.0	ISIP (psi) 3,286.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 3,933.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 77	Q Treat Avg... 75	Avg Treat Pr... 5,464.0	Proppant De... 245,000	Prop Placed... 242,120
Max Treat Pressure (psi) 6,867.0			Avg Treat Pressure (psi) 5,464.0			Max Treat Rate (bbl/min) 77			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 4799.00	
Total Add Amount FRW-200 152 gal; ICI-3240 53 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 208120 lb													
STAGE 21 - HYDRAULIC FRAC on 2/19/2015 02:15													
Date 2/19/2015		Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE			Stim/Treat Company FTS INTERNATIONAL		Comment			
P Pre SI (psi) 2,779.0	ISIP (psi) 3,876.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,406.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 78	Q Treat Avg... 75	Avg Treat Pr... 5,501.0	Proppant De... 245,000	Prop Placed... 230,040
Max Treat Pressure (psi) 6,687.0			Avg Treat Pressure (psi) 5,501.0			Max Treat Rate (bbl/min) 78			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 4836.00	
Total Add Amount FRW-200 168 gal; ICI-3240 57 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 196040 lb													

Total Add Amount
FRW-200 215 gal; ICI-3240 65 gal; PROPPANT 100 MESH 34020 lb; PROPPANT 40/70 WHITE 209600 lb



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	2/20/2015
AFE #	DV02164
Total AFE	5,235,000

Stimulations & Treatments

STAGE 24 - HYDRAULIC FRAC on 2/19/2015 15:00

Date	Type					Zone			Stim/Treat Company			Comment		
2/19/2015	HYDRAULIC FRAC					WOLFCAMP B, ORIGINAL HOLE			FTS INTERNATIONAL					
P Pre SI (psi)	ISIP (psi)	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi)	BD Rate (bbl...)	Q Treat Min...	Q Treat Max...	Q Treat Avg...	Avg Treat Pr...	Proppant De...	Prop Placed...	
2,792.0	3,664.0					4,256.0	10	74	77	75	5,346.0	245,000	244,780	
Max Treat Pressure (psi)			Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)			Avg Treat Rate (bbl/min)			V clean+slurry (bbl)		
6,176.0			5,346.0			77			75			5031.00		
Total Add Amount														
FRW-200 191 gal; ICI-3240 65 gal; PROPPANT 100 MESH 34040 lb; PROPPANT 40/70 WHITE 210740 lb														

STAGE 25 - HYDRAULIC FRAC on 2/19/2015 20:10

Date	Type					Zone			Stim/Treat Company			Comment		
2/19/2015	HYDRAULIC FRAC					WOLFCAMP B, ORIGINAL HOLE			FTS INTERNATIONAL					
P Pre SI (psi)	ISIP (psi)	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi)	BD Rate (bbl...)	Q Treat Min...	Q Treat Max...	Q Treat Avg...	Avg Treat Pr...	Proppant De...	Prop Placed...	
2,867.0	3,745.0					4,156.0	10	40	80	77	4,586.0	245,000	244,500	
Max Treat Pressure (psi)			Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)			Avg Treat Rate (bbl/min)			V clean+slurry (bbl)		
6,924.0			4,586.0			80			77			4859.00		
Total Add Amount														
FRW-200 160 gal; ICI-3240 61 gal; PROPPANT 100 MESH 34000 lb; PROPPANT 40/70 WHITE 244500 lb														

STAGE 26 - HYDRAULIC FRAC on 2/20/2015 02:00

Date	Type					Zone			Stim/Treat Company			Comment		
2/20/2015	HYDRAULIC FRAC					WOLFCAMP B, ORIGINAL HOLE			FTS INTERNATIONAL					
P Pre SI (psi)	ISIP (psi)	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi)	BD Rate (bbl...)	Q Treat Min...	Q Treat Max...	Q Treat Avg...	Avg Treat Pr...	Proppant De...	Prop Placed...	
2,605.0	3,683.0					4,150.0	10	40	78	77	5,507.0	245,000	246,820	
Max Treat Pressure (psi)			Avg Treat Pressure (psi)			Max Treat Rate (bbl/min)			Avg Treat Rate (bbl/min)			V clean+slurry (bbl)		
6,375.0			5,507.0			78			77			4878.00		
Total Add Amount														
FRW-200 171 gal; ICI-3240 57 gal; PROPPANT 100 MESH 35000 lb; PROPPANT 40/70 WHITE 211820 lb														

UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL			Secondary Job Type		Start Date 12/3/2014	End Date					
AFE Number DV02164		Supplemental AFE Number			Daily Field Est (Cost) 114,561		Cum Field Est (Cost) 1,975,548						
Number of Stages (ft) 28		Lateral Length (ft)			Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts													
Contacts COMP SUPVR, TOMMY GOFORTH, CRSCNT; COMP SUPT, SETH MILLER, CRSCNT													
Daily Operations													
Operations Summary FRAC COMPLETED STAGES 27-28 OF 28 AS PER SCHEDULE AND WIRELINE PERFORATED STAGE 28 OF 28													
Planned Operations FRAC FINAL STAGE, SECURE WELL, SWI READY FOR DRILL OUT.													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments		Unsched Typ	NPT				
05:00	06:30	1.50	1.50	FRAC. JOB	No	CON'T FRAC STAGE # 27 OF 28. 100% PROP PLACED							
06:30	06:45	0.25	1.75	GENERAL OPERATIONS	No	SIM OPS							
06:45	07:45	1.00	2.75	PERFORATING	No	PLUG AND PERF STAGE # 27 OF 28							
07:45	08:45	1.00	3.75	GENERAL OPERATIONS	No	SIM OPS							
08:45	10:00	1.25	5.00	FRAC. JOB	No	FRAC STAGE # 28 OF 28. 100% PROP PLACED							
10:00	10:15	0.25	5.25	GENERAL OPERATIONS	No	SECURE WELL, SWI.							
Safety Checks													
Time		Type			Inspected By		Description						
05:45		SAFETY MEETING			TOMMY/WES		PRE TOUR SM						
Plug Details													
Des		Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com					
FRAC PLUG		8,587.0	8,589.0			2/20/2015		WEATHERFORD PLUGS.					
Perforation Intervals													
Time	Zone			Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com					
07:00	WOLFCAMP B, ORIGINAL HOLE			8,434.0	8,435.0	6.0	3 1/8						
07:00	WOLFCAMP B, ORIGINAL HOLE			8,469.0	8,470.0	6.0	3 1/8						
07:00	WOLFCAMP B, ORIGINAL HOLE			8,504.0	9,506.0	6.0	3 1/8						
07:00	WOLFCAMP B, ORIGINAL HOLE			8,536.0	8,537.0	6.0	3 1/8						
07:00	WOLFCAMP B, ORIGINAL HOLE			8,570.0	8,571.0	6.0	3 1/8						
Stimulations & Treatments													
STAGE 26 - HYDRAULIC FRAC on 2/20/2015 06:00													
Date 2/20/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,854.0	ISIP (psi) 3,590.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,032.0	BD Rate (bbl/min) 10	Q Treat Min... 40	Q Treat Max... 80	Q Treat Avg... 77	Avg Treat Pr... 5,206.0	Proppant De... 245,000	Prop Placed... 246,100
Max Treat Pressure (psi) 6,612.0			Avg Treat Pressure (psi) 5,206.0			Max Treat Rate (bbl/min) 80			Avg Treat Rate (bbl/min) 77			V clean+slurry (bbl) 5039.00	
Total Add Amount FRW-200 175 gal; ICI-3240 57 gal; PROPPANT 100 MESH 35000 lb; PROPPANT 40/70 WHITE 211100 lb													
STAGE 26 - HYDRAULIC FRAC on 2/20/2015 10:00													
Date 2/20/2015	Type HYDRAULIC FRAC			Zone WOLFCAMP B, ORIGINAL HOLE		Stim/Treat Company FTS INTERNATIONAL		Comment					
P Pre SI (psi) 2,854.0	ISIP (psi) 3,851.0	P Post SI (psi)	5 min SI (psi)	10 min SI (psi)	15 min SI (psi)	P Break (psi) 4,474.0	BD Rate (bbl/min) 10	Q Treat Min... 75	Q Treat Max... 75	Q Treat Avg... 75	Avg Treat Pr... 5,211.0	Proppant De... 245,000	Prop Placed... 244,220
Max Treat Pressure (psi) 6,911.0			Avg Treat Pressure (psi) 5,211.0			Max Treat Rate (bbl/min) 75			Avg Treat Rate (bbl/min) 75			V clean+slurry (bbl) 5029.00	
Total Add Amount FRW-200 175 gal; ICI-3240 61 gal; PROPPANT 100 MESH 33120 lb; PROPPANT 40/70 WHITE 211100 lb													



AMERICAN ENERGY
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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 2/24/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date				
Job Information												
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date				
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 1,260		Cum Field Est (Cost) 1,976,808						
Number of Stages (ft) 28		Lateral Length (ft)		Time Since LTI (days)		Time Since Reportable Incident (days)						
Daily Contacts												
Contacts COMP SUPT, SETH MILLER, CRSCNT												
Daily Operations												
Operations Summary RIG DOWN BOP'S, FLOWBACK IRON, FRAC IRON.												
Planned Operations NIPPLE DOWN FRAC STACK, RDMO FRAC CREW AND RELATED EQUIPMENT.												
Time Log												
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT				
05:00	21:30	16.50	16.50	INACTIVE	No	WAITING ON FRAC TO FINISH ON 0818H						
21:30	23:00	1.50	18.00	REMOVE BOP'S	No	RIG DOWN BOP'S						
23:00	05:00	6.00	24.00	RIG UP/DOWN	No	RIG DOWN FRAC IRON AND RELATED EQUIPMENT AND MOVE UNITS OFF LOCATION.						
Safety Checks												
Time		Type			Inspected By		Description					
21:30		SAFETY MEETING			SETH MILLER		RD SAFETY MEETING					
Perforation Intervals												
Time	Zone		Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)		Gun Size (in)		Com	



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AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 3/3/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
Job Information								
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 66,717		Cum Field Est (Cost) 2,043,526		
Number of Stages (ft) 28		Lateral Length (ft) 4,586		Time Since LTI (days)		Time Since Reportable Incident (days)		
Daily Contacts								
Contacts CONSLTNT, TROY MACKENZIE, LOOP; COMP SUPVR, BILLY CLARK, CRSCNT								
Daily Operations								
Operations Summary MIRU CT TO PERFORM DRILLOUT OPERATIONS								
Planned Operations CONTINUE WITH DRILLOUT OPERATIONS.								
Time Log								
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	12:00	7.00	7.00	INACTIVE	No	WAIT ON COIL TUBING TO FINISH ON THE 09-0818 WELL.		
12:00	14:00	2.00	9.00	RIG UP/DOWN	No	SKID ALL RELATED DRILLOUT EQUIPMENT OVER FROM THE 09-0818H WELL TO THIS WELL. START TO RIG UP ON THE 09-0817 WELL FOR DRILL OUT OPERATIONS. STAB FLOW CROSS ON WELLHEAD AND TORQUE DOWN, RIG UP BULLDOG WELL TEST TO THE FLOW CROSS, STAB CONQUEST BOP AND MAKE UP TOP NOTCH BHA, AS FOLLOWS. COIL CONNECTOR- 2.875/0.33 DUAL BACK PRESSURE VALVE- 2.875/1.40 HYD. JARS- 2.875/4.60 HYD. RELEASE- 2.875/1.45 DUAL CIRC. SUB- 2.875/1.38 X-OVER- 3.125/0.67 160 GPM NOV AGI.-3.125/4.36 WEIGHT BAR- 3.125/4.77 160 GPM NOV AGI.- 3.125/4.36 X-OVER- 3.125/0.56 HP HI-TORC MOTOR- 3.125/14.32 X-OVER- 3.875/0.56 JZ ROCK BIT- 4.625/0.50 TOTAL BHA LENGTH = 39.26' TESTED MOTOR AT SURFACE @ 2 BBL/MIN @ 1500 PSI, STAB CT LUBRICATOR ON THE WELLHEAD AND FINISH RIGING UP FLOWBACK AND TIEING RESTRAINTS,		
14:00	16:00	2.00	11.00	PRESSURE TEST	No	PRIME UP AND PRESURE TEST SURFACE LINES AND CT TO A LOW TEST OF 250 PSI AND A HIGH TEST OF 8500 PSI. MULTIPLE LEAKS ON THE FLOWBACK LINES, FIXED ALL LEAKS AND COMPLETED A GOOD TEST, BLED DOWN SURFACE LINES TO 1800 PSI TO EQUALIZE THE TREE AND OPENED UP THE WELLHEAD, SICP WAS 1600 PSI.		
16:00	16:15	0.25	11.25	CLEAN OUT	No	CT START TO RIH		
16:15	17:30	1.25	12.50	CLEAN OUT	No	BILLY CLARK HELD NIGHT SHIFT SAFETY MEETING,PPE OVER HEAD LOADS, HIGH PRESSURE LINES		
17:30	19:15	1.75	14.25	CLEAN OUT	No	TAG PLUG 1 @ 8587 FT CTM = 8556 FT CP = 5400 @ 3.5 BPM WHP 1600 PSI @ 3.8 BPM RETURS LIGHT SAND DRILL TIME 31 MIN 5 BBL SWEEP CHEMS FR 1/2 PER 10		
19:15	19:45	0.50	14.75	CLEAN OUT	No	TAG PLUG 2 @ 8769 FT CTM = 8728 FT CP = 5400 @ 3.5 BPM WHP 1800 PSI @ 3.8 BPM RETURS LIGHT SAND DRILL TIME 30 MIN 5 BBL SWEEP CHEMS FR 1/2 PER 10		
19:45	20:15	0.50	15.25	CLEAN OUT	No	TAG PLUG 3 @ 8944 FT CTM = 8895 FT CP = 5400 @ 3.5 BPM WHP 1750 PSI @ 3.7 BPM RETURS HEAVY SAND DRILL TIME 24 MIN 5 BBL SWEEP CHEM 1/2 PER 10		
20:15	21:00	0.75	16.00	CLEAN OUT	No	TAG PLUG 4 @ 9119 FT CTM = 9059 FT CP = 5200 @ 3.5 BPM WHP 1600 PSI @ 3.7 BPM RETURS HEAVY SAND DRILL TIME 10 MIN 5 BBL SWEEP CHEM 1/2 PER 10		
21:00	21:30	0.50	16.50	CLEAN OUT	No	TAG PLUG 5 @ 9294 FT CTM = 9230 FT CP = 5200 @ 3.5 BPM WHP 1400 PSI @ 3.7 BPM RETURS HEAVY SAND DRILL TIME 10 MIN 5 BBL SWEEP CHEM FR 1/2 PER 10		
21:30	22:15	0.75	17.25	CLEAN OUT	No	TAG PLUG 6 @ 9469 FT CTM = 9399 FT CP = 5200 @ 3.5 BPM WHP 1450 PSI @ 3.7 BPM RETURS WASHED DOWN SLOW DUE TO HEAVY SAND DRILL TIME 22 MIN 5 BBL SWEEP CHEM FR 1/2 PER 10		
22:15	23:15	1.00	18.25	CLEAN OUT	No	TAG PLUG 7 @ 9642 FT CTM = 9569 FT CP = 5200 @ 3.5 BPM WHP 1450 PSI @ 3.7 BPM RETURS WASHED DOWN SLOW DUE TO HEAVY SAND DRILL TIME 20 MIN 5 BBL SWEEP CHEM FR 1/2 PER 10		
23:15	00:30	1.25	19.50	CLEAN OUT	No	TAG PLUG 8 @ 9809 FT CTM = 9731 FT CP = 5200 @ 3.5 BPM WHP 1450 PSI @ 3.7 BPM RETUNS HEAVY SAND DRILL TIME 16 MIN 5 BBL SWEEP CHEM FR 1/2 PER 10		



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	3/3/2015
AFE #	DV02164
Total AFE	5,235,000

Safety Checks

Plug Details

Perforation Intervals

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 3/4/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
Job Information								
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 88,175		Cum Field Est (Cost) 2,131,701		
Number of Stages (ft) 28		Lateral Length (ft) 4,586		Time Since LTI (days)		Time Since Reportable Incident (days)		
Daily Contacts								
Contacts COMP SUPVR, JOSHUA BEENE, NEW TECH; COMP SUPVR, BILLY CLARK, CRSCNT								
Daily Operations								
Operations Summary POOH RIG DOWN								
Planned Operations CONTINUE TO POOH RIG DOWN CTU. RIG UP W/L TO SET PACKER								
Time Log								
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:30	0.50	0.50	SAFETY MEETING	No	HOLD SAFETY MEETING WITH DAY SHIFT ON DRIVING CONDITIONS, FOG, CHANGE OVER WITH NIGHT SHIFT, STAYING OUT FROM BEHIND REEL TRAILER, REVIEW JSAS		
05:30	06:30	1.00	1.50	CLEAN OUT	No	TAG PLUG 15 @ 11046 FT CTM= 11091 FT CP= 5200 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1100 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 25 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
06:30	07:15	0.75	2.25	CLEAN OUT	No	TAG PLUG 16 @ 11219 FT CTM= 11270 FT CP= 5300 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 16 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
07:15	08:00	0.75	3.00	CLEAN OUT	No	TAG PLUG 17 @ 11394 FT CTM= 11449 FT CP= 5300 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 22 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
08:00	08:45	0.75	3.75	CLEAN OUT	No	TAG PLUG 18 @ 11569 FT CTM= 11625 FT CP= 5300 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 16 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
08:45	10:15	1.50	5.25	CLEAN OUT	No	TAG PLUG 19 @ 11744FT CTM= 11844 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1100 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 24 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
10:15	11:15	1.00	6.25	CLEAN OUT	No	TAG PLUG 20 @ 11924 FT CTM= 11967 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1100 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 12 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
11:15	12:30	1.25	7.50	CLEAN OUT	No	TAG PLUG 21 @ 12094 FT CTM= 12029 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1100 PSI @ 3.7 BPM RETURNS= MED SAND DO= 16 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
12:30	13:15	0.75	8.25	CLEAN OUT	No	TAG PLUG 22 @ 12269 FT CTM= 12213 FT CP= 5000 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= MED SAND DO= 5 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
13:15	14:15	1.00	9.25	CLEAN OUT	No	TAG PLUG 23 @ 12444 FT CTM= 12385 FT CP= 5000 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= MED SAND DO= 9 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
14:15	15:45	1.50	10.75	CLEAN OUT	No	TAG PLUG 24 @ 12619 FT CTM= 12552 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 90 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		
15:45	16:45	1.00	11.75	CLEAN OUT	No	TAG PLUG 25 @ 12794 FT CTM= 12731 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 15 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP		



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	3/4/2015
AFE #	DV02164
Total AFE	5,235,000

Time Log										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments			Unschd Typ	NPT
16:45	17:30	0.75	12.50	CLEAN OUT	No	TAG PLUG 26 @ 12969 FT CTM= 12910 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 9 MINS WASH TO NEXT PLUG SENT 5 BBL SWEEP				
17:30	18:15	0.75	13.25	CLEAN OUT	No	TAG PLUG 27 @ 13144 FT CTM= 13062 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1200 PSI @ 3.7 BPM RETURNS= LIGHT SAND DO= 7 MINS WASH TO PBTD SENT 20/10/20 BBL SWEEP NIGHT SHIFT SAFETY MEETING				
18:15	19:00	0.75	14.00	CLEAN OUT	No	TAG BOTTOM CTM= 13290 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR WHP= 1150 PSI @ 3.7 BPM RETURNS= LIGHT TO HEAVY SAND BIG PLUG PARTS WASH TO PBTD TAG @ 13290 FT ALL PLUGS DRILLED SENT 10 BBL SWEEP POOH 32 FT MIN				
19:00	21:45	2.75	16.75	CLEAN OUT	No	CONTINUE TO POOH CTM= 8900 FT CP= 5100 PSI @ 3.5 BPM CHEMS= 1/4 FR PER 10. 5 BBL GEL SWEEPS WHP= 1050 PSI @ 3.7 BPM RETURNS= LIGHT SAND				
21:45	02:30	4.75	21.50	RIG UP/DOWN	No	BUMP UP CTU SHUT MASTER VALVE 32-1/2 ROUNDS OOH SHUT WELL IN BLEED DOWN TO FLOW BACK. RIG DOWN TOOL STRING.RIG BACK UP ON WELL BLOW COIL DRY WITH N2 WHP=1300 PSI				
02:30	05:00	2.50	24.00	RIG UP/DOWN	No	BLEED COIL DOWN.RIG DOWN CTU TO RIG UP W/L TO RUN PACKER.				
Safety Checks										
Time		Type			Inspected By			Description		
05:00		SAFETY MEETING			JOSHUA BEENE			PRE TOUR SM		
17:00		SAFETY MEETING			BILLY CLARK			PRE TOUR SM		
05:00		SAFETY MEETING			JOSHUA BEENE			PRE TOUR SM		
Plug Details										
Description FRAC PLUG		Top (ftKB) 13,144.0	Btm (ftKB) 13,146.0	OD (in)	ID (in)	Run Date 2/14/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,967.0	Btm (ftKB) 12,969.0	OD (in)	ID (in)	Run Date 2/14/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,790.0	Btm (ftKB) 12,792.0	OD (in)	ID (in)	Run Date 2/14/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,620.0	Btm (ftKB) 12,622.0	OD (in)	ID (in)	Run Date 2/14/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,444.0	Btm (ftKB) 12,446.0	OD (in)	ID (in)	Run Date 2/15/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,269.0	Btm (ftKB) 12,271.0	OD (in)	ID (in)	Run Date 2/15/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 12,094.0	Btm (ftKB) 12,096.0	OD (in)	ID (in)	Run Date 2/15/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,924.0	Btm (ftKB) 11,926.0	OD (in)	ID (in)	Run Date 2/16/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,744.0	Btm (ftKB) 11,746.0	OD (in)	ID (in)	Run Date 2/16/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,569.0	Btm (ftKB) 11,571.0	OD (in)	ID (in)	Run Date 2/16/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,394.0	Btm (ftKB) 11,395.0	OD (in)	ID (in)	Run Date 2/17/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,219.0	Btm (ftKB) 11,221.0	OD (in)	ID (in)	Run Date 2/17/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Description FRAC PLUG		Top (ftKB) 11,044.0	Btm (ftKB) 11,046.0	OD (in)	ID (in)	Run Date 2/17/2015	Pull Date 3/3/2015	Comment WEATHERFORD PLUGS.		
Perforation Intervals										
Time	Zone			Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com		



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 3/5/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
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Job Information

Job Category COMPLETION	Primary Job Type COMPLETION - ORIGINAL	Secondary Job Type	Start Date 12/3/2014	End Date
AFE Number DV02164	Supplemental AFE Number	Daily Field Est (Cost) 62,865	Cum Field Est (Cost) 2,222,671	
Number of Stages (ft) 28	Lateral Length (ft) 4,586	Time Since LTI (days)	Time Since Reportable Incident (days)	

Daily Contacts

Contacts
COMP SUPVR, JOSHUA BEENE, NEW TECH; COMP SUPVR, BILLY CLARK, CRSCNT

Daily Operations

Operations Summary
RIG UP W/L TO SET PACKER FOR W/O RIG TO RUN GAS LIFT VALVES

Planned Operations
SET PACKER

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:30	0.50	0.50	SAFETY MEETING	No	HOLD SAFETY MEETING WITH DAY SHIFT ON MUDDY CONDITIONS, SLIPS, TRIPS, AND FALL,S 3 POINT CONTACT, CLEANING OFF BOOTS BEFORE ENTERING EQUIPMENT, REVIEW JSAS		
05:30	09:00	3.50	4.00	RIG UP/DOWN	No	CONT RIGGING DOWN CTU AND SUPPORT EQUIPMENT		
09:00	13:00	4.00	8.00	SAFETY MEETING	No	WELL SHUT IN AND SECURE WAITING ON W/L TO SET PACKER		
13:00	14:30	1.50	9.50	RIG UP/DOWN	No	BEGIN RIGGING UP W/L AND SUPPORT EQUIPMENT NU BOPS, MU 4.625 OD GUAGE RING WITH JUNK BASKET		
14:30	15:45	1.25	10.75	WIRELINE	No	OPEN WELL, RIH WITH JUNK BASKET		
15:45	16:15	0.50	11.25	WIRELINE	No	ON DEPTH WITH JUNK BASKET @ 8050 FT BEGIN POOH.		
16:15	17:45	1.50	12.75	WIRELINE	No	OOH CLEAN RUN WITH JUNK BASKET. RIG UP PACKER		
17:45	19:15	1.50	14.25	WIRELINE	No	RIH WITH PACKER AND GAUGE INSTALL BATTERY S @ 18:20		
19:15	19:45	0.50	14.75	WIRELINE	No	OOH LUBRICATOR LEAKED RUNNING IN HOLE @ 2000 FT POOH TO FIX LUBRICATOR O-RING WHP= 1700 PSI		
19:45	20:30	0.75	15.50	WIRELINE	No	RBIH WITH PACKER 2-7/8" X 2.313 "XN" NIPPLE WITH GUAGE INSIDE "XN" NIPPLE W/2..205" NO GO 2-7/8" X 10' SUB. 2-7/8" PUMP OUT PLUG. CHARGE DIDNT FIRE TO STROKE SETTING TOOL. WORKED UP AND DOWN TO TRY TO GET CHARGE TO FIRE PICK UP W/T WAS 1230LBS		
20:30	21:30	1.00	16.50	WIRELINE	No	POOH TO CHANGE OUT CHARGE AND INSPECT TOOL ASSY.		
21:30	22:30	1.00	17.50	WIRELINE	No	OOH LOOKED AT FIRE HEAD AND CHARGE WAS WET CHANGE OUT CHARGE. RIG BACK UP ON WELL TO RBIH.		
22:30	23:30	1.00	18.50	WIRELINE	No	RBIH TO SET PACKER		
23:30	00:15	0.75	19.25	WIRELINE	No	RAN DOWN TO 7970 FT P/U 1300 LBS SET PACKER PICKED UP 20' RBIH TAG TOP OF PACKER POOH. 2-7/8 " X 5.5." ON/OFF TOOL 2-7/8""X 5.5 AS1X PACKER 2-7/8"X10' SUB 2-7/8" X 2.313"XN NIPPLE WITH GUAGE INSIDE W/2.205" NO -GO 2-7/8"X 10' SUB 2-7/8" PUMP OUT PLUG EOT 7983 FT		
00:15	01:00	0.75	20.00	RIG UP/DOWN	No	OOH SHUT WELL IN.RIG DOWN W/L WELL READY FOR W/O RIG TO RUN TUBING AND GAS LIFT VALVES.		
01:00	05:00	4.00	24.00	INACTIVE	No	INACTIVE WELL READY TO RUN TUBING AND GAS LIFT VALVES.		

Safety Checks

Time	Type	Inspected By	Description
05:00	SAFETY MEETING	JOSHUA BEENE	PRE TOUR SM
09:00	SAFETY MEETING	BILLY CLARK	PRE TOUR SM

Plug Details

Des	Top (ftKB)	Btm (ftKB)	OD (in)	ID (in)	Run Date	Pull Date	Com
PRESSURE / TEMPERATURE GAUGE	7,975.0	7,976.0	2 7/8		3/5/2015		SET ON OFF TOOL PACKER SET AT 7970 FT 2-7/8 X 6" SUB SET AT 7974' 2-7/8" X 2.313" "XN NIPPLE W/2.205" NO-GO @ 7975' 2-7/8 X 10' SUB @7983' 2-7/8" PUMP OUT PLUG @ EOT 7983

Perforation Intervals

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com



AMERICAN ENERGY
PARTNERS

AMERICAN ENERGY - PERMIAN BASIN, LLC
Daily Completion Report

UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date 3/6/2015
AFE # DV02164
Total AFE 5,235,000

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date
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Job Information

Job Category COMPLETION	Primary Job Type COMPLETION - ORIGINAL	Secondary Job Type	Start Date 12/3/2014	End Date
AFE Number DV02164	Supplemental AFE Number	Daily Field Est (Cost) 1,260	Cum Field Est (Cost) 2,217,378	
Number of Stages (ft) 28	Lateral Length (ft) 4,586	Time Since LTI (days)	Time Since Reportable Incident (days)	

Daily Contacts

Contacts COMP SUPVR, JOSHUA BEENE, NEW TECH; COMP SUPVR, BILLY CLARK, CRSCNT

Daily Operations

Operations Summary WELL SHUT IN WAITING ON TUBING
Planned Operations WELL SHUT IN WAITING ON TUBING

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:00	24.00	24.00	INACTIVE	Yes	WELL SHUT IN WAITING ON TUBING		

Safety Checks

Time	Type	Inspected By	Description

Perforation Intervals

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com

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UNIVERSITY 09 0817H

AEPB WELL NO. 19

API 42383384400000	State TEXAS	County REAGAN	Well Config HORIZONTAL	Ground Elevation (ft) 2,664.00	RKB (ft) 30.00	Well Status COMPLETION	Well Sub-Status COMPLETING	Completion Date					
Job Information													
Job Category COMPLETION		Primary Job Type COMPLETION - ORIGINAL		Secondary Job Type		Start Date 12/3/2014		End Date					
AFE Number DV02164		Supplemental AFE Number		Daily Field Est (Cost) 1,260		Cum Field Est (Cost) 2,219,898							
Number of Stages (ft) 28		Lateral Length (ft) 4,586		Time Since LTI (days)		Time Since Reportable Incident (days)							
Daily Contacts													
Contacts COMP SUPVR, JOSHUA BEENE, NEW TECH; COMP SUPVR, BILLY CLARK, CRSCNT													
Daily Operations													
Operations Summary WELL SHUT IN WAITING ON TUBING. TIME LOG ADJUSTED FOR TIME CHANGE													
Planned Operations WELL SHUT IN WAITING ON TUBING													
Time Log													
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments		Unschd Typ	NPT				
05:00	04:00	23.00	23.00	INACTIVE	Yes	WELL SHUT IN WAITING ON TUBING							
Safety Checks													
Time		Type			Inspected By		Description						
Perforation Intervals													
Time	Zone			Top (ftKB)		Btm (ftKB)		Shot Dens (shots/ft)		Gun Size (in)		Com	



UNIVERSITY 09 0817H
AEPB WELL NO. 19

Report Date	3/9/2015
AFE #	DV02164
Total AFE	5,235,000

Job Information					
Job Category COMPLETION	Primary Job Type COMPLETION - ORIGINAL	Secondary Job Type	Start Date 12/3/2014	End Date	
AFE Number DV02164	Supplemental AFE Number	Daily Field Est (Cost)	1,260	Cum Field Est (Cost) 2,221,258	
Number of Stages (ft)	28	Lateral Length (ft) 4,586	Time Since LTI (days)	Time Since Reportable Incident (days)	

Contacts
COMP SUPVR, JOSHUA BEENE, NEW TECH; COMP SUPVR, BILLY CLARK, CRSCNT

Operations Summary
WELL SHUT IN WAITING ON TUBING.

Planned Operations
WELL SHUT IN WAITING ON TUBING

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Activity	Inactive?	Comments	Unschd Typ	NPT
05:00	05:00	24.00	24.00	INACTIVE	Yes	WELL SHUT IN WAITING ON TUBING		

Time	Type	Inspected By	Description

Time	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Gun Size (in)	Com