



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS

PRES WELL NO. 154
INTEGRITY 3

Report Date 3/27/2017
Report # 1
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 952
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS					
Report Summary															
Well Spud 3/26/2017	TD Date	RR Date 3/27/2017	Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549	Target Line		Drilling AFE 2,371,629	Daily Field Est (Cost) 127,695	Cum Field Est (Cost) 127,695					
Status at Report Time REPAIRING RIG															
Operations Summary MIRU, PU BHA, SPUD WELL AT 07:30 ON 3/26/17, DRILL F/ 61FT TO 1,013FT. TD WELL, CIRCULATED HOLE. RAN 13 3/8 SURFACE CASING TO 636ft, REPAIR RIG DUE TO WINCH CABLE GETTING TANGLED. SPOKE TO VIVIVAN AT TRRC 3/23/17 AT 16:30. TRRC JOB: 76584 NEXT WELL (SKID): UNIVERSITY 11 RE 931HS						Planned Operations REPAIR CABLE, CONTINUE RUNNING CASING, CEMENT SURFACE, SKID TO THE NEXT WELL.									
Start MD (ftKB) 61			End MD (ftKB) 1,013		Depth Progress (ft) 952		Drilling Time (hr) 15.00		Avg ROP (ft/hr) 63.5						
Rotating Time (hr) 15.00		Sliding Time (hr)		Rotating ROP (ft/hr) 63.5		Sliding Rop (ft/hr)		% Rotating Time (%) 100.00		% Sliding Time (%) 0.00					
Contacts															
Contacts: SPUD RIG, INTEGRITY 3, 361-827-3304; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA															
Daily Time Log															
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments			Hole Section	Interval	Category	Activity	NPT			
05:00	06:00	1.00	61	61	MIRU INTEGRITY 3.			SURF	VERT	DRILL	RIG UP/RIG DOWN	No			
06:00	07:30	1.50	61	61	PU BHA 1.			SURF	VERT	DRILL	P/U & L/D BHA	No			
07:30	22:30	15.00	61	1,013	SPUD WELL 03/26/17 AT 07:30 ROTATE DRILL FROM 61ft - ft, 1,013ft AT 63.5fph 100% ROTATE, FULL RETURNS (HIT WATER AT +- 500ft)			SURF	VERT	DRILL	DRILL W/ AIR	No			
22:30	23:30	1.00	1,013	1,013	TOOH TO BHA			SURF	VERT	DRILL	TRIPS	No			
23:30	00:30	1.00	1,013	1,013	LD BHA 1			SURF	VERT	DRILL	P/U & L/D BHA	No			
00:30	02:30	2.00	1,013	1,013	RAN 636ft (11jts) OF 13.375in J-55 54.5ppf BTC SURFACE CASING. WINCH CABLE GOT TANGLED.			SURF	VERT	CSG/CEMENT	RUN CASING	No			
02:30	05:00	2.50	1,013	1,013	WHILE RUNNING CASING ON THE 11TH JOINT, THE WINCH CABLE GOT WRAPPED AROUND CASING AND CUT THE CABLE. ETA FOR NEW CABLE AND REPAIR IS 3 HOURS. WAIT ON NEW CABLE AND REPAIR.			SURF	VERT	CSG/CEMENT	REPAIR RIG	No			
Drilling Parameters															
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)	
61	1,013	15.00	0.00	63.5			2			40					
Bit / BHA Information															
Drill Bit		Bit Run	Make	Type	Bit Dull		Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)
17 1/2in, HAMMER, 235252		1	NUMA	HAMMER BIT	-----TD		61	1,013	952	15.00	63.5	15.00		63.5	40
Current BHA Components															
BHA No	Item Description			Make	Model	OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)			
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.28	IF						
1	DRILL COLLAR			INTEGRITY	INTEGRITY	5 1/2	3	90.00	FH						
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.00	FH						
1	DRILL COLLAR			INTEGRITY	INTEGRITY	9	1	29.00	REG						
1	BIT SUB			INTEGRITY	INTEGRITY	6 5/8	1	3.15	REG						
Mud Motor Details															
BHA...	Item Description			OD (in)	Length (ft)	Make		Model		Serial Number		Tq Max (ft•lb)	Start Hrs (hr)	End Hrs (hr)	
Degree Bend					Bit to Bend (ft)					RPG					
Mud Volumes: Gains and Losses															
Additions (bbl)		Losses (bbl)		Additions - Losses (bbl)		Cum Additions (bbl)		Cum Losses (bbl)		Cum Additions - Losses (bbl)					
BOPE Testing															
Type					Last Date			Next Check Date			Days Until Next Check (days)				
Leak Off and Formation Integrity Tests															
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Sfc Press (psi)	MWE (lb/gal)	Com							
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.							
Casing Design															
Casing Description			Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)				
CONDUCTOR			3/15/2017		20	133.00	J-55	WELDED		61.0	40.00				
SURFACE			3/27/2017		13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30				
INTERMEDIATE					9 5/8	40.00	HCK55			6,650.0	7,080.99				
PRODUCTION										17,549.0					
Survey Data															
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)	DLS (°/100ft)	BUR (°/100ft)	
Mud Logging Information															
Lithology and Shows						Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)					
Geological Data															
Formation Name					Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)						
SALEDO					883										
YATES					1,427										
SEVEN RIVERS					1,591										
QUEEN					2,045										
GRAYBURG					2,298										
SAN ANDRES					3,036										
BASE- SAN ANDRES					3,565										
SPRABERRY UPPER					5,674										
SPRABERRY LOWER					6,172										
JO-MILL SAND					6,488										
DEAN					6,985										
WOLFCAMP A					7,132										
WFMPA1_141_SH					7,282										
EH&S Report															
Time Since LTI (days)						Time Since Reportable Incident (days)									



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PRES WELL NO. 154
INTEGRITY 3

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Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 952
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

Type	Time	Description	Comments				
SAFETY MEETING	17:00	RU SAFETY MEETING	CREW CHANGE SAFETY MEETING				
Job Supplies							
Supply Item Description	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS

PRES WELL NO. 154
INTEGRITY 3

Report Date 3/28/2017
Report # 2
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS				
Report Summary														
Well Spud 3/26/2017	TD Date	RR Date 3/27/2017	Target Formation WFMPA1_141_SH	Prop TD (ftKB) 17,549	Target Line		Drilling AFE 2,371,629	Daily Field Est (Cost) 76,084		Cum Field Est (Cost) 203,779				
Status at Report Time DRILLING ON THE UNIVERSITY 11RE 931HS														
Operations Summary FINISHED RUNNING SURFACE CASING, CEMENTED SURFACE, LOWERED RIG, CUT CASING, RELEASED RIG AND SKIDDED TO THE UNIVERSITY 11 RE 931HS.						Planned Operations WELL IS READY FOR BIG RIG.								
NEXT WELL (SKID): UNIVERSITY 11 RE 931HS														
Start MD (ftKB) 1,013			End MD (ftKB) 1,013		Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)					
Rotating Time (hr)		Sliding Time (hr)		Rotating ROP (ft/hr)		Sliding Rop (ft/hr)		% Rotating Time (%)		% Sliding Time (%)				
Depth Rotating (ft)		Depth Sliding (ft)												
Contacts														
Contacts: SPUD RIG, INTEGRITY 3, 361-827-3304; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA														
Daily Time Log														
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity		NPT			
05:00	05:30	0.50	1,013	1,013	FINISHED REPAIRING RIG WITH NEW WINCH CABLE.	SURF	VERT	CSG/CEMENT	REPAIR RIG		No			
05:30	07:00	1.50	1,013	1,013	FINISHED RUNNING THE 13 JOINTS LEFT OF SURFACE CASING.	SURF	VERT	CSG/CEMENT	RUN CASING		No			
07:00	08:30	1.50	1,013	1,013	TOTAL CASING RAN IS 965.33ft (24fts) OF 13.375in J-55 54.5ppf BTC SURFACE CASING. TAGGED BOTTOM AT 1,011ft RKB. ANTELOPE BOW SPRING CENTRALIZERS INSTALLED ON EVERY 4TH JOINT. SHOE AT 1,011ft. FLOAT COLLAR AT 967.3ft.	SURF	VERT	CSG/CEMENT	RUN CASING & CEMENT		No			
08:30	10:30	2.00	1,013	1,013	R/U CREST CEMENT HEAD. TESTED LINES TO 2500psi/5min. MIXED AND PUMPED 13 3/8in SURFACE CASING PRIMARY CEMENT JOB AS FOLLOWS: 40bbbls GEL SPACER, 80bbbls GEL SPACER WITH LCM, 5bbbls WATER SPACER, 260.29bbbls OF 12.8ppg LEAD SLURRY AT 5bpm, 118.44bbbls OF 14.8ppg TAIL SLURRY AT 5bpm. DROPPED INTEGRITY TOP PLUG AND DISPLACED CEMENT WITH 147bbbls OF WATER AT 5bpm. SLOWED DOWN TO 2bpm ON LAST 20bbbls OF DISPLACEMENT.	SURF	VERT	CSG/CEMENT	RUN CASING & CEMENT		No			
10:30	11:00	0.50	1,013	1,013	18bbbls OF CEMENT RETURNED TO SURFACE. FINAL LIFT PRESSURE AT 880psi, HELD 500psi OVER LIFT PRESSURE AT 1500psi, HELD FOR 5 MINUTES, FLOATS HELD, BLED BACK 1bbl.	SURF	VERT	CSG/CEMENT	PRESSURE TEST		No			
11:00	12:30	1.50	1,013	1,013	PRESSURED UP TO 1000psi AND TESTED CASING FOR 30 MINUTES. TEST WAS GOOD.	SURF	VERT	CSG/CEMENT	RIG UP/RIG DOWN		No			
					LOWERED RIG, CUT CSG AT GROUND LEVEL AND RELEASED RIG.	SURF	VERT	CSG/CEMENT						
					RAN GYRO, INSTALLED WELLHEAD AND POURED GROUT CEMENT AROUND BASEPLATE OF WELLHEAD ON 3/30/17.									
Drilling Parameters														
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)
Bit / BHA Information														
Drill Bit		Bit Run	Make	Type	Bit Dull	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)
17 1/2in, HAMMER, 235252		1	NUMA	HAMMER BIT	-----TD	61	1,013	952	15.00	63.5	15.00		63.5	40
Current BHA Components														
BHA No	Item Description			Make	Model	OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)		
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.28	IF					
1	DRILL COLLAR			INTEGRITY	INTEGRITY	5 1/2	3	90.00	FH					
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.00	FH					
1	DRILL COLLAR			INTEGRITY	INTEGRITY	9	1	29.00	REG					
1	BIT SUB			INTEGRITY	INTEGRITY	6 5/8	1	3.15	REG					
Mud Motor Details														
BHA...		Item Description		OD (in)	Length (ft)	Make		Model		Serial Number		Tq Max (ft•lb)	Start Hrs (hr)	End Hrs (hr)
Degree Bend					Bit to Bend (ft)					RPG				
Mud Volumes: Gains and Losses														
Additions (bbl)		Losses (bbl)		Additions - Losses (bbl)		Cum Additions (bbl)		Cum Losses (bbl)		Cum Additions - Losses (bbl)				
BOPE Testing														
Type					Last Date			Next Check Date			Days Until Next Check (days)			
Leak Off and Formation Integrity Tests														
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Sfc Press (psi)	MWE (lb/gal)	Com						
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.						
Casing Design														
Casing Description		Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)				
CONDUCTOR		3/15/2017		20	133.00	J-55	WELDED		61.0	40.00				
SURFACE		3/27/2017		13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30				
INTERMEDIATE				9 5/8	40.00	HCK55			6,650.0	7,080.99				
PRODUCTION									17,549.0					
Survey Data														
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)					
Mud Logging Information														
Lithology and Shows						Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)				
Geological Data														
Formation Name					Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)					
SALEDO					883									
YATES					1,427									
SEVEN RIVERS					1,591									
QUEEN					2,045									
GRAYBURG					2,298									
SAN ANDRES					3,036									
BASE- SAN ANDRES					3,565									
SPRABERRY UPPER					5,674									
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Total AFE 2,371,629

Geological Data							
Formation Name		Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	
DEAN		6,985					
WOLFCAMP A		7,132					
WFMPA1_141_SH		7,282					
EH&S Report							
Time Since LTI (days)				Time Since Reportable Incident (days)			
Type	Time	Description			Comments		
SAFETY MEETING	06:00	RU SAFETY MEETING			CREW CHANGE SAFETY MEETING		
Job Supplies							
Supply Item Description	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9			Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS							
Report Summary																		
Well Spud 3/26/2017	TD Date	RR Date	Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549	Target Line			Drilling AFE 2,371,629	Daily Field Est (Cost) 29,847	Cum Field Est (Cost) 233,626							
Status at Report Time RIGGING DOWN / MOVING																		
Operations Summary CONTINUED RIGGING DOWN ON THE HICKMAN RE 1 223 37HA AND MOVING TO THE UNIVERSITY 11 RE 936HS. 95% RIGGED DOWN, 75% MOVED, 20% SET IN HOURS FROM RIG RELEASE ; 24 ESTIMATED SPUD DATE AT 1200hrs ON 4/4/17						Planned Operations CONTINUE RIGGING DOWN AND MOVING.												
Start MD (ftKB) 1,013			End MD (ftKB) 1,013			Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)								
Rotating Time (hr)		Sliding Time (hr)		Rotating ROP (ft/hr)		Sliding Rop (ft/hr)		% Rotating Time (%)		% Sliding Time (%)		Depth Rotating (ft)	Depth Sliding (ft)					
Contacts																		
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA; CONSLTNT, TIM DINGMAN, SIERRA																		
Daily Time Log																		
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments				Hole Section	Interval	Category	Activity	NPT					
05:00	08:00	3.00	1,013	1,013	WAITED ON DAYLIGHT				MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No					
08:00	14:30	6.50	1,013	1,013	RDMO UNIT 407. RD SUBS. RD BACKYARD WITH 3RD PARTY ROUSTABOUTS. RD 3RD PARTY EQUIPMENT, LTR, WOLFPACK AND RIGNET. CAMP MOVED AT 0900. PULL FRONT WALKING FEET OFF SUBS. MOVED MOTORS, PITS, VFD, TRANSFERRED DIESEL. LOWERED SUBS.				MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No					
14:30	20:00	5.50	1,013	1,013	LOWERED SUBS AND PREPARED DERRICK TO LOWER, LOWERED DERRICK AT 1720 HRS. FINISHED TRANSFERRING OBM. SET PITS, MOTOR PACKAGE AND VFD AND WATER TANKS.				MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No					
20:00	05:00	9.00	1,013	1,013	STRUNG DOWN, PUT TOP DRIVE IN TRANSPORT POSITION, FINISH PULLING WIRES FROM TOP DOGHOUSE ON OLD LOCATION, BEGIN PULLING WIRES AND HOOKING UP PITS ON NEW LOCATION.				MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No					
Drilling Parameters																		
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)				
Bit / BHA Information																		
Drill Bit			Bit Run	Make		Type		Bit Dull		Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)
17 1/2in, HAMMER, 235252			1	NUMA		HAMMER BIT		-----TD		61	1,013	952	15.00	63.5	15.00		63.5	40
Current BHA Components																		
BHA No	Item Description				Make		Model		OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)			
1	XO SUB				INTEGRITY		INTEGRITY		5 1/2	1	1.28	IF						
1	DRILL COLLAR				INTEGRITY		INTEGRITY		5 1/2	3	90.00	FH						
1	XO SUB				INTEGRITY		INTEGRITY		5 1/2	1	1.00	FH						
1	DRILL COLLAR				INTEGRITY		INTEGRITY		9	1	29.00	REG						
1	BIT SUB				INTEGRITY		INTEGRITY		6 5/8	1	3.15	REG						
Mud Motor Details																		
BHA...	Item Description			OD (in)	Length (ft)	Make		Model		Serial Number		Tq Max (ft*lb)	Start Hrs (hr)	End Hrs (hr)				
Degree Bend						Bit to Bend (ft)				RPG								
Mud Volumes: Gains and Losses																		
Additions (bbl)			Losses (bbl)			Additions - Losses (bbl)			Cum Additions (bbl)			Cum Losses (bbl)		Cum Additions - Losses (bbl)				
BOPE Testing																		
Type					Last Date				Next Check Date				Days Until Next Check (days)					
Leak Off and Formation Integrity Tests																		
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CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.										
Casing Design																		
Casing Description			Run Date		Pull Date		OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)					
CONDUCTOR			3/15/2017				20	133.00	J-55	WELDED		61.0	40.00					
SURFACE			3/27/2017				13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30					
INTERMEDIATE							9 5/8	40.00	HCK55			6,650.0	7,080.99					
PRODUCTION												17,549.0						
Survey Data																		
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)	VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)			
571		0.26		80.89		571	1.19		1.19		0.25		0.39		-0.08			
621		0.25		75.62		621	1.24		1.23		0.47		0.05		-0.02			
671		0.23		19.95		671	1.37		1.36		0.61		0.45		-0.04			
721		0.24		345.81		721	1.57		1.55		0.61		0.28		0.02			
771		0.25		55.59		771	1.73		1.71		0.68		0.56		0.02			
821		0.26		87.65		821	1.80		1.78		0.88		0.28		0.02			
871		0.27		61.63		871	1.87		1.84		1.10		0.24		0.02			
933		0.15		234.11		933	1.89		1.86		1.16		0.68		-0.19			
Mud Logging Information																		
Lithology and Shows							Max Trip Gas (units)			Avg Drill Gas (units)			Max Drill Gas (units)					
Geological Data																		
Formation Name							Prog Top TVD (ftKB)			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)					
SALEDO							883											
YATES							1,427											
SEVEN RIVERS							1,591											
QUEEN							2,045											
GRAYBURG							2,298											
SAN ANDRES							3,036											
BASE- SAN ANDRES							3,565											
SPRABERRY UPPER							5,674											
SPRABERRY LOWER							6,172											
JO-MILL SAND							6,488											
DEAN							6,985											
WOLFCAMP A							7,132											
WFMPA1_141_SH							7,282											



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/1/2017
Report # 3
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

EH&S Report								
Time Since LTI (days) 408				Time Since Reportable Incident (days) 408				
Type		Time	Description		Comments			
SAFETY MEETING		05:30	PTSM		RIGGING DOWN			
RIG MOVE		07:00	PJSM		PJSM - LIGHTNING, AND ALL PERSONNEL RE RIGGING DOWN.			
SAFETY MEETING		17:30	PTSM		RIGGING DOWN			
Job Supplies								
Supply Item Description		Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)
MUD DIESEL		9,890.0			TRANSFERRED FROM HICKMAN RE 1 223 37HA RIG FUEL	9,890.0	0.0	0.00



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS

PRES WELL NO. 154
UNIT 407

Report Date 4/2/2017
Report # 4
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS							
Report Summary																	
Well Spud 3/26/2017	TD Date	RR Date	Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549	Target Line		Drilling AFE 2,371,629	Daily Field Est (Cost) 55,402	Cum Field Est (Cost) 289,028							
Status at Report Time DRESS DERRICK																	
Operations Summary CONTINUED RIGGING DOWN ON THE HICKMAN RE 1 223 37HA AND MOVING TO THE UNIVERSITY 11 RE 936HS.RIGGING UP 100 % RIGGED DOWN, 100 % MOVED, 80% SET IN , RIGGED UP 40 % LIGHTNING EQUIPMENT ; 4 - CRANES , 2 - FORKLIFTS , 2 - TANDEMSS , 12 HAUL TRUCKS 48 HOURS FROM RIG RELEASE. ESTIMATED SPUD DATE AT 1200 hrs ON 4/4/17						Planned Operations RAISE DERRICK AND RIG FLOOR , CONTINUE RIGGING UP											
Start MD (ftKB) 1,013			End MD (ftKB) 1,013			Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)							
Rotating Time (hr)		Sliding Time (hr)		Rotating ROP (ft/hr)		Sliding Rop (ft/hr)		% Rotating Time (%)		% Sliding Time (%)							
Depth Rotating (ft)		Depth Sliding (ft)															
Contacts																	
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA; CONSLTNT, TIM DINGMAN, SIERRA																	
Daily Time Log																	
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments		Hole Section	Interval	Category	Activity	NPT						
05:00	08:00	3.00	1,013	1,013	PULLED WIRES, RU PITS WHILE WAITING ON DAYLIGHT FOR CRANE AND TRUCK ACTIVITIES.		MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No						
08:00	18:00	10.00	1,013	1,013	FINISH RIGGING DOWN ON HICKMAN , MOVED 27 LOADS , RIGGING UP ON UNIVERSITY , SET MUD HOUSE , TERRA OPEN TOPS , MUD HOUSE , WATER TANKS , MATS SUBS , TRIP TANK , UNIT CREW HOUSES , GAS BUSTER , BUILD DERRICK		MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No						
18:00	05:00	11.00	1,013	1,013	STRING UP . INSTALL STAND PIPE IN DERRICK AND TORQUE , CHECK VALVES AND SEATS IN PUMPS , RUN HPU LINES , CONNECT HYD. LINES FROM SUB TO SUB , DRESS DERRICK , PREPARE RIG TO WALK TO THIRD WELL		MOB	MOB	SKID/WALK		No						
Drilling Parameters																	
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)			
Bit / BHA Information																	
Drill Bit		Bit Run	Make	Type	Bit Dull	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)			
17 1/2in, HAMMER, 235252		1	NUMA	HAMMER BIT	-----TD	61	1,013	952	15.00	63.5	15.00		63.5	40			
Current BHA Components																	
BHA No	Item Description			Make	Model	OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)					
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.28	IF								
1	DRILL COLLAR			INTEGRITY	INTEGRITY	5 1/2	3	90.00	FH								
1	XO SUB			INTEGRITY	INTEGRITY	5 1/2	1	1.00	FH								
1	DRILL COLLAR			INTEGRITY	INTEGRITY	9	1	29.00	REG								
1	BIT SUB			INTEGRITY	INTEGRITY	6 5/8	1	3.15	REG								
Mud Motor Details																	
BHA...	Item Description			OD (in)	Length (ft)	Make	Model	Serial Number	Tq Max (ft•lb)	Start Hrs (hr)	End Hrs (hr)						
Degree Bend					Bit to Bend (ft)				RPG								
Mud Volumes: Gains and Losses																	
Additions (bbl)		Losses (bbl)		Additions - Losses (bbl)		Cum Additions (bbl)		Cum Losses (bbl)		Cum Additions - Losses (bbl)							
BOPE Testing																	
Type					Last Date			Next Check Date			Days Until Next Check (days)						
Leak Off and Formation Integrity Tests																	
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Stc Press (psi)	MWE (lb/gal)	Com									
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.									
Casing Design																	
Casing Description			Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)						
CONDUCTOR			3/15/2017		20	133.00	J-55	WELDED		61.0	40.00						
SURFACE			3/27/2017		13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30						
INTERMEDIATE					9 5/8	40.00	HCK55			6,650.0	7,080.99						
PRODUCTION										17,549.0							
Survey Data																	
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)	
571		0.26		80.89		571		1.19		1.19		0.25		0.39		-0.08	
621		0.25		75.62		621		1.24		1.23		0.47		0.05		-0.02	
671		0.23		19.95		671		1.37		1.36		0.61		0.45		-0.04	
721		0.24		345.81		721		1.57		1.55		0.61		0.28		0.02	
771		0.25		55.59		771		1.73		1.71		0.68		0.56		0.02	
821		0.26		87.65		821		1.80		1.78		0.88		0.28		0.02	
871		0.27		61.63		871		1.87		1.84		1.10		0.24		0.02	
933		0.15		234.11		933		1.89		1.86		1.16		0.68		-0.19	
Mud Logging Information																	
Lithology and Shows						Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)							
Geological Data																	
Formation Name						Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)							
SALEDO						883											
YATES						1,427											
SEVEN RIVERS						1,591											
QUEEN						2,045											
GRAYBURG						2,298											
SAN ANDRES						3,036											
BASE- SAN ANDRES						3,565											
SPRABERRY UPPER						5,674											
SPRABERRY LOWER						6,172											
JO-MILL SAND						6,488											
DEAN						6,985											
WOLFCAMP A						7,132											
WFMPA1_141_SH						7,282											



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/2/2017
Report # 4
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

EH&S Report							
Time Since LTI (days)				Time Since Reportable Incident (days)			
409				409			
Type	Time	Description			Comments		
RIG MOVE	07:00	PJSM			PJSM ON BOTH ENDS - LIGHTNING, AND ALL PERSONNEL RE RIGGING DOWN. STRING UP		
RIG MOVE	17:30	PJSM					
Job Supplies							
Supply Item Description	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)
RIG FUEL	7,200.0				7,200.0	0.0	0.00



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/3/2017
Report # 5
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS						
Report Summary																
Well Spud 3/26/2017	TD Date	RR Date	Target Formation WFMPA1_141_SH	Prop TD (ftKB) 17,549	Target Line			Drilling AFE 2,371,629	Daily Field Est (Cost) 139,847	Cum Field Est (Cost) 428,875						
Status at Report Time HOOKING UP HYDRAULIC LINES ON TM-120																
Operations Summary RIGGING UP ON THE UNIVERSITY 11 RE 936HS. 100 % RIGGED DOWN, 100 % MOVED, 100% SET IN , RIGGED UP 85 % LIGHTNING EQUIPMENT ; 1 - CRANE , 1 - TANDEM , 1 - FORKLIFT 72 HOURS FROM RIG RELEASE. ESTIMATED SPUD DATE AT 1200 hrs ON 4/4/17						Planned Operations CONTINUE RIGGING UP , NIPPLE UP , TEST BOP'S										
Start MD (ftKB) 1,013			End MD (ftKB) 1,013			Depth Progress (ft) 0			Drilling Time (hr)		Avg ROP (ft/hr)					
Rotating Time (hr)		Sliding Time (hr)		Rotating ROP (ft/hr)		Sliding Rop (ft/hr)		% Rotating Time (%)		% Sliding Time (%)	Depth Rotating (ft)	Depth Sliding (ft)				
Contacts																
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA; CONSLTNT, TIM DINGMAN, SIERRA																
Daily Time Log																
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity		NPT					
05:00	09:00	4.00	1,013	1,013	RIGGED UP , INSTALLED SRL'S ON STRONG BACK UNDER BOARD AND ON CROWN POLE , HOOKED UP WATER LINES AND AIR LINES UNDER SUB'S , RAN LINES TO TOP DOG HOUSE , TIGHTENED SAFETY CLAMPS ON STANDPIPE ,	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN		No					
09:00	10:00	1.00	1,013	1,013	PERFORMED PRE RAISE INSPECTION ON DERRICK	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN		No					
10:00	05:00	19.00	1,013	1,013	DERRICK UP AT 10:30 hrs , RIG FLOOR UP AT 14:00 hrs , INSTALLED FLOW LINE ON SHAKER'S , INSTALLED WALKING FEET , FINISHED SETTING TERRA EQUIPMENT , P/U STACK OFF CRADLE , PINNED FRONT SPREADER BEAM'S ON SUBS , REMOVED CELLAR COVERS , HELD P.JSM WALK RIG TO UNIVERSITY 11 RE 936 HS , DRESSED RIG FLOOR , HOOKED UP MUD LINES FROM PUMP'S TO SUBS , HOOKED UP HYDRAULIC LINES ON TM120 .	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN		No					
Drilling Parameters																
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)		
Bit / BHA Information																
Drill Bit			Bit Run	Make	Type	Bit Dull	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)	
17 1/2in, HAMMER, 235252			1	NUMA	HAMMER BIT	-----TD	61	1,013	952	15.00	63.5	15.00		63.5	40	
Current BHA Components																
BHA No	Item Description				Make	Model	OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)			
1	XO SUB				INTEGRITY	INTEGRITY	5 1/2	1	1.28	IF						
1	DRILL COLLAR				INTEGRITY	INTEGRITY	5 1/2	3	90.00	FH						
1	XO SUB				INTEGRITY	INTEGRITY	5 1/2	1	1.00	FH						
1	DRILL COLLAR				INTEGRITY	INTEGRITY	9	1	29.00	REG						
1	BIT SUB				INTEGRITY	INTEGRITY	6 5/8	1	3.15	REG						
Mud Motor Details																
BHA...	Item Description			OD (in)	Length (ft)	Make	Model		Serial Number		Tq Max (ft·lb)	Start Hrs (hr)	End Hrs (hr)			
Degree Bend					Bit to Bend (ft)					RPG						
Mud Volumes: Gains and Losses																
Additions (bbl)		Losses (bbl)		Additions - Losses (bbl)		Cum Additions (bbl)		Cum Losses (bbl)		Cum Additions - Losses (bbl)						
BOPE Testing																
Type					Last Date			Next Check Date			Days Until Next Check (days)					
Leak Off and Formation Integrity Tests																
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Sfc Press (psi)	MWE (lb/gal)	Com								
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.								
Casing Design																
Casing Description			Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)					
CONDUCTOR			3/15/2017		20	133.00	J-55	WELDED		61.0	40.00					
SURFACE			3/27/2017		13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30					
INTERMEDIATE					9 5/8	40.00	HCK55			6,650.0	7,080.99					
PRODUCTION										17,549.0						
Survey Data																
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)
571		0.26		80.89		571		1.19		1.19		0.25		0.39		-0.08
621		0.25		75.62		621		1.24		1.23		0.47		0.05		-0.02
671		0.23		19.95		671		1.37		1.36		0.61		0.45		-0.04
721		0.24		345.81		721		1.57		1.55		0.61		0.28		0.02
771		0.25		55.59		771		1.73		1.71		0.68		0.56		0.02
821		0.26		87.65		821		1.80		1.78		0.88		0.28		0.02
871		0.27		61.63		871		1.87		1.84		1.10		0.24		0.02
933		0.15		234.11		933		1.89		1.86		1.16		0.68		-0.19
Mud Logging Information																
Lithology and Shows							Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)					
Geological Data																
Formation Name							Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)					
SALEDO							883									
YATES							1,427									
SEVEN RIVERS							1,591									
QUEEN							2,045									
GRAYBURG							2,298									
SAN ANDRES							3,036									
BASE- SAN ANDRES							3,565									
SPRABERRY UPPER							5,674									
SPRABERRY LOWER							6,172									
JO-MILL SAND							6,488									
DEAN							6,985									
WOLFCAMP A							7,132									

Report Date	4/3/2017
Report #	5
Projected Days	18
Drilling Days	
Current Depth	1,013
Depth Progress	0
Planned VS	
Current VS	
AFE #	1550416
Total AFE	2,371,629



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/4/2017
Report # 6
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN		State TEXAS						
Report Summary																
Well Spud 3/26/2017	TD Date	RR Date	Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549	Target Line TL 1 ; 7,282 KBTVD @ 0 VS W/ 92.00 INC			Drilling AFE 2,371,629	Daily Field Est (Cost) 42,925	Cum Field Est (Cost) 471,800					
Status at Report Time TESTING CHOKE MANIFOLD																
Operations Summary RIGGING UP ON THE UNIVERSITY 11 RE 936HS. NIPPLE UP , TEST BOP'S 96 HOURS FROM RIG RELEASE. ESTIMATED SPUD DATE AT 1200 hrs ON 4/4/17						Planned Operations FINISH TESTING BOP'S , INSTALL WEAR BUSHING , PERFORM DRAW DOWN TEST , P/U BHA # 2 , TRIP IN HOLE , DRILL INTERMEDIATE SECTION										
Start MD (ftKB) 1,013			End MD (ftKB) 1,013			Depth Progress (ft) 0			Drilling Time (hr)		Avg ROP (ft/hr)					
Rotating Time (hr)		Sliding Time (hr)		Rotating ROP (ft/hr)		Sliding Rop (ft/hr)		% Rotating Time (%)		% Sliding Time (%)		Depth Rotating (ft)	Depth Sliding (ft)			
Contacts																
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; CONSLTNT, KENNETH DABNEY, SIERRA; CONSLTNT, TIM DINGMAN, SIERRA																
Daily Time Log																
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments			Hole Section	Interval	Category	Activity	NPT				
05:00	20:30	15.50	1,013	1,013	120 DAY INSPECTION ON TOP DRIVE AND DRAWWORKS , SPOOL UP DRUM , INSTALL TRACK EXTITON , REPAIRED CROWN O MATIC , HOOK UP PASON , FUNCTION TEST TOP DRIVE , DRESS TOP DRIVE , CALIBRATE RIG , CHECK CROWN O MATIC , DRESS PUMP'S , DRESS SHAKER'S , INSTALL 37 PIN AND ENCODER ON TM 120 , TRANSFER BRINE WATER TO PITS , 10 JOINTS DRILL PIPE BACK FROM FISHING TOOL TOTAL PIPE ON LOCATION 588 JOINT'S , PREPARE TO NIPPLE UP			MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No				
20:30	04:30	8.00	1,013	1,013	NIPPLE UP , REMOVE TA CAP , INSTALL SPACER SPOOLS , ROTATING HEAD , SET STACK DOWN , TORQUE BOLTS BY HAND MIDCENTRAL TORQUE WRENCH NOT WORKING , INSTALL KILL LINE AND CHOKE LINE VALVES AND TORQUE , HOOK UP HYDRAULIC LINES			MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	No				
04:30	05:00	0.50	1,013	1,013	TEST CHOKE MANIFOLD 250 LOW , 5,000 HIGH			MOB	MOB	SKID/WALK	TEST B.O.P	No				
Drilling Parameters																
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)		
Bit / BHA Information																
Drill Bit			Bit Run	Make	Type	Bit Dull		Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)
17 1/2in, HAMMER, 235252			1	NUMA	HAMMER BIT	-----TD		61	1,013	952	15.00	63.5	15.00		63.5	40
Current BHA Components																
BHA No	Item Description				Make	Model		OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)		
1	XO SUB				INTEGRITY	INTEGRITY		5 1/2	1	1.28	IF					
1	DRILL COLLAR				INTEGRITY	INTEGRITY		5 1/2	3	90.00	FH					
1	XO SUB				INTEGRITY	INTEGRITY		5 1/2	1	1.00	FH					
1	DRILL COLLAR				INTEGRITY	INTEGRITY		9	1	29.00	REG					
1	BIT SUB				INTEGRITY	INTEGRITY		6 5/8	1	3.15	REG					
Mud Motor Details																
BHA...	Item Description			OD (in)	Length (ft)	Make		Model		Serial Number		Tq Max (ft•lb)	Start Hrs (hr)	End Hrs (hr)		
Degree Bend						Bit to Bend (ft)				RPG						
Mud Volumes: Gains and Losses																
Additions (bbl)			Losses (bbl)			Additions - Losses (bbl)			Cum Additions (bbl)		Cum Losses (bbl)		Cum Additions - Losses (bbl)			
BOPE Testing																
Type					Last Date				Next Check Date			Days Until Next Check (days)				
Leak Off and Formation Integrity Tests																
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Sfc Press (psi)	MWE (lb/gal)	Com								
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.								
Casing Design																
Casing Description			Run Date		Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)				
CONDUCTOR			3/15/2017			20	133.00	J-55	WELDED		61.0	40.00				
SURFACE			3/27/2017			13 3/8	54.50	J-55	BUTTRESS THREAD		1,013.0	995.30				
INTERMEDIATE						9 5/8	40.00	HCK55			6,650.0	7,080.99				
PRODUCTION											17,549.0					
Survey Data																
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)	VS (ft)	NS (ft)		EW (ft)	DLS (°/100ft)		BUR (°/100ft)			
571		0.26		80.89		571	1.19	1.19		0.25	0.39		-0.08			
621		0.25		75.62		621	1.24	1.23		0.47	0.05		-0.02			
671		0.23		19.95		671	1.37	1.36		0.61	0.45		-0.04			
721		0.24		345.81		721	1.57	1.55		0.61	0.28		0.02			
771		0.25		55.59		771	1.73	1.71		0.68	0.56		0.02			
821		0.26		87.65		821	1.80	1.78		0.88	0.28		0.02			
871		0.27		61.63		871	1.87	1.84		1.10	0.24		0.02			
933		0.15		234.11		933	1.89	1.86		1.16	0.68		-0.19			
Mud Logging Information																
Lithology and Shows						Max Trip Gas (units)			Avg Drill Gas (units)			Max Drill Gas (units)				
Geological Data																
Formation Name						Prog Top TVD (ftKB)			Drill Top MD (ftKB)			Drill Top (TVD) (ftKB)				
SALEDO						883										
YATES						1,427										
SEVEN RIVERS						1,591										
QUEEN						2,045										
GRAYBURG						2,298										
SAN ANDRES						3,036										
BASE- SAN ANDRES						3,565										
SPRABERRY UPPER						5,674										
SPRABERRY LOWER						6,172										
JO-MILL SAND						6,488										
DEAN						6,985										
WOLFCAMP A						7,132										
WFMPA1_141_SH						7,282										



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/4/2017
Report # 6
Projected Days 18
Drilling Days
Current Depth 1,013
Depth Progress 0
Planned VS
Current VS
AFE # 1550416
Total AFE 2,371,629

EH&S Report							
Time Since LTI (days) 411				Time Since Reportable Incident (days) 2			
Type	Time	Description			Comments		
SAFETY MEETING	05:30	PRE TOUR SAFETY MEETING			RIGGING UP, HAND AND FEET PLACEMENT, 3RD PARTY ON LOCATION, STAYING ALERT ON LAST DAY OF HITCH. NIPPLE UP BOP'S		
SAFETY MEETING	17:30	PRE TOUR SAFETY MEETING					
Job Supplies							
Supply Item Description	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)
COMPRESSED NATURAL GAS	5.94	5.94			0.0	5.94	8.91
MUD DIESEL		0.0			9,890.0	0.0	0.00
RIG FUEL		216.0			14,284.0	316.0	584.60

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000		Longitude -101.5024500000		Orig KB El... 2,687.00		RKB (ft) 21.00		County REAGAN		State TEXAS															
Report Summary																													
Well Spud 3/26/2017		TD Date		RR Date		Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549		Target Line TL 1 ; 7,282 KBTVD @ 0 VS W/ 92.00 INC				Drilling AFE 2,371,629		Daily Field Est (Cost) 39,976		Cum Field Est (Cost) 511,776											
Status at Report Time																													
Operations Summary TEST BOP'S, PERFORM DRAW DOWN TEST, RU ENVIRONMENTAL CATCH CAN, RU TARP										Planned Operations																			
ESTIMATED SPUD DATE at 2000 hrs ON 4/4/17																													
Start MD (ftKB) 1,013				End MD (ftKB) 1,013				Depth Progress (ft) 0				Drilling Time (hr)				Avg ROP (ft/hr)													
Rotating Time (hr)			Sliding Time (hr)			Rotating ROP (ft/hr)			Sliding Rop (ft/hr)			% Rotating Time (%)			% Sliding Time (%)			Depth Rotating (ft)		Depth Sliding (ft)									
Contacts																													
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; CONSLTNT, DOUG BESSIRE, VARNELL; CONSLTNT, TOMMY PAXTON, ACOCK ENG																													
Daily Time Log																													
Start Time		End Time		Dur (hr)		Start Depth (ftKB)		End Depth (ftKB)		Comments				Hole Section		Interval		Category		Activity		NPT							
05:00		10:15		5.25		1,013		1,013		TESTED BOP'S 250/5000 PSI, HYDRILL 250/3500 PSI. TEST MUD LINE 250/5000 PSI. CHOKE MANIFOLD 250/5000 PSI. TEST TIW AND DART VALVE 250/5000 PSI, PULL TEST PLUG LAY DOWN TEST JOINT.				MOB		MOB		SKID/WALK		NIPPLE UP B.O.P./WELLHEAD		No							
10:15		10:15				1,013		1,013		INSTALLED THREE SECTIONS OF FLOWLINE, INSTALLED CATCH CAN WITH TARP, ROTATED MOUSEHOLE, TRIP TANK LINE, TURNED BUCKLES, CENTERED STACK, CLOSE 2" CASING VALVES, PICK UP NIPPLE AREA, CLOSED CELLAR COVERS				MOB		MOB		SKID/WALK		NIPPLE UP B.O.P./WELLHEAD		No							
10:15		10:15												MOB		MOB		SKID/WALK				No							
Drilling Parameters																													
Start Depth (ftKB)		End Depth (ftKB)		Rot Time (hr)		Slide Time (hr)		Int ROP (ft/hr)		TFO (°)		dP (SPP) (psi)		WOB (1000lbf)		Q Rate (gpm/cfm)		SPP (psi)		RPM (rpm)		PU Str Wt (1000lbf)		SO Str Wt (1000lbf)		Drill Tq		T BH (°F)	
Bit / BHA Information																													
Drill Bit				Bit Run		Make		Type		Bit Dull		Depth In (ftKB)		Depth Out (ftKB)		Drilled (ft)		Drill Time (hr)		BHA ROP (ft/hr)		Rot Time (hr)		Slide Time (hr)		Rot ROP (ft/hr)		Max RPM (rpm)	
17 1/2in, HAMMER, 235252				1		NUMA		HAMMER BIT		-----TD		61		1,013		952		15.00		63.5		15.00				63.5		40	
Current BHA Components																													
BHA No		Item Description						Make		Model		OD (in)		Jts		Length (ft)		Top Thread		Gauge (in)		Fish Neck OD (in)		FN Len (ft)					
1		XO SUB						INTEGRITY		INTEGRITY		5 1/2		1		1.28		IF											
1		DRILL COLLAR						INTEGRITY		INTEGRITY		5 1/2		3		90.00		FH											
1		XO SUB						INTEGRITY		INTEGRITY		5 1/2		1		1.00		FH											
1		DRILL COLLAR						INTEGRITY		INTEGRITY		9		1		29.00		REG											
1		BIT SUB						INTEGRITY		INTEGRITY		6 5/8		1		3.15		REG											
Mud Motor Details																													
BHA...				Item Description				OD (in)		Length (ft)		Make		Model		Serial Number		Tq Max (ft*lb)		Start Hrs (hr)		End Hrs (hr)							
Degree Bend										Bit to Bend (ft)						RPG													
Mud Reports																													
Date 4/4/2017				Type BRINE				Source				Depth (ftKB) 1,013		Density (lb/gal) 10.00		Mud Temp Out... 28		Vis (s/qt) 28		PV Calc (cP) 1.0		YP Calc (lb/10... 2							
Gel (10s) (lb/1... 1.000		Gel (10m) (lb/1... 1.000		Gel (30m) (lb/1... 1.000		Vis 3rpm 1		Vis 6rpm 1		Vis 100rpm 1		Vis 200rpm 2		Vis 300rpm 3		Vis 600rpm 4		pH		Pm Filtrate (mL... 2		Pm (mL/mL)							
Alkalinity (mL/... 1.4		Corrected Solid... 1.4		LGS (%) 1.4		HGS (%) 0.0		ASG (sg(h2o))		LGS Wt (lb/bbl) 13.0		HGS Wt (lb/gal) 0.0		LCM (lb/bbl)		Chlorides (mg/L) 170,000		Hardness Ca (...)		Filtrate (mL/30... 2		FC (1/32")							
Mud Volumes: Gains and Losses																													
Additions (bbl)				Losses (bbl)				Additions - Losses (bbl)				Cum Additions (bbl)				Cum Losses (bbl)				Cum Additions - Losses (bbl)									
BOPE Testing																													
Type								Last Date				Next Check Date				Days Until Next Check (days)													
Leak Off and Formation Integrity Tests																													
Test Type		Test Date		Depth (ftKB)		Fluid		Fluid Dens (lb/gal)		Sfc Press (psi)		MWE (lb/gal)		Com															
CASING		3/27/2017		1,011.0		FRESH WATER		8.30		1,000.0		27.34		TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.															
Casing Design																													
Casing Description				Run Date		Pull Date		OD (in)		Wt (lb/ft)		Grade		Conn		Set Depth (ftKB)		Length (ft)											
CONDUCTOR				3/15/2017				20		133.00		J-55		WELDED		61.0		40.00											
SURFACE				3/27/2017				13 3/8		54.50		J-55		BUTTRESS THREAD		1,013.0		995.30											
INTERMEDIATE								9 5/8		40.00		HCK55				6,650.0		7,080.99											
PRODUCTION																17,549.0													
Survey Data																													
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)													
571		0.26		80.89		571		1.19		1.19		0.25		0.39		-0.08													
621		0.25		75.62		621		1.24		1.23		0.47		0.05		-0.02													
671		0.23		19.95		671		1.37		1.36		0.61		0.45		-0.04													
721		0.24		345.81		721		1.57		1.55		0.61		0.28		0.02													
771		0.25		55.59		771		1.73		1.71		0.68		0.56		0.02													
821		0.26		87.65		821		1.80		1.78		0.88		0.28		0.02													
871		0.27		61.63		871		1.87		1.84		1.10		0.24		0.02													
933		0.15		234.11		933		1.89		1.86		1.16		0.68		-0.19													
Mud Logging Information																													
Lithology and Shows								Max Trip Gas (units)				Avg Drill Gas (units)				Max Drill Gas (units)													
Geological Data																													
Formation Name								Prog Top TVD (ftKB)				Drill Top MD (ftKB)				Drill Top (TVD) (ftKB)													
SALEDO								883																					
YATES								1,427																					
SEVEN RIVERS								1,591																					
QUEEN								2,045																					
GRAYBURG								2,298																					
SAN ANDRES								3,036																					
BASE- SAN ANDRES								3,565																					
SPRABERRY UPPER								5,674																					
SPRABERRY LOWER								6,172																					
JO-MILL SAND								6,488																					
DEAN								6,985																					
WOLFCAMP A								7,132																					
WFMPA1_141_SH								7,282																					

Report Date	4/5/2017
Report #	7
Projected Days	18
Drilling Days	
Current Depth	1,013
Depth Progress	0
Planned VS	
Current VS	
AFE #	1550416
Total AFE	2,371,629

Report Date	4/5/2017
Report #	7
Projected Days	18
Drilling Days	1
Current Depth	1,510
Depth Progress	497
Planned VS	11,102
Current VS	16
AFE #	1550416
Total AFE	2,371,629

PPI 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000		Longitude -101.5024500000		Orig KB El... 2,687.00		RKB (ft) 21.00		County REAGAN		State TEXAS							
Report Summary																					
Well Spud 3/26/2017		TD Date		RR Date		Target Formation WFMPA1_141_SH		Prop TD (ftKB) 17,549		Target Line TL 1 ; 7,282 KBTVD @ 0 VS W/ 92.00 INC				Drilling AFE 2,371,629		Daily Field Est (Cost) 78,614		Cum Field Est (Cost) 550,414			
Status at Report Time DRILLING 12 1/4 INTERMEDIATE HOLE AT 1510 ft																					
Operations Summary TESTED BOP'S, PERFORMED DRAW DOWN TEST, RU ENVIRONMENTAL CATCH CAN, RU TARP. PICKED UP DIRECTIONAL BHA. PU DP OFF OF RACKS AND TIH TO 850 ft. DISPLACED HOLE WITH 10 ppg BRINE WATER. DRILLED FLOAT COLLAR AND CEMENT TO 1013 ft. FINISHED DRAW DOWN TEST ON ACCUMULATOR AFTER CHANGING OUT AIR PUMP. ROTATE/SLIDE DRILL FROM 1013 ft TO 1510 ft. LAST SURVEY: DEPTH- 1403 INC- 6.90°, AZ- 169.40, TVD- 1402.27, VS- 15.84, ABOVE- 4.0, RIGHT- 0.5, TEMP 86 MW- 10.1, VIS- 28 BIG RIG SPUD DATE: 23:45 hrs ON 4-4-2017 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)										Planned Operations DRILL 12 1/4 INTERMEDIATE HOLE TO 6650 ft											
Start MD (ftKB) 1,013				End MD (ftKB) 1,510				Depth Progress (ft) 497				Drilling Time (hr) 5.25				Avg ROP (ft/hr) 94.7					
Rotating Time (hr) 3.50			Sliding Time (hr) 1.75			Rotating ROP (ft/hr) 113.4			Sliding Rop (ft/hr) 57.1			% Rotating Time (%) 66.67			% Sliding Time (%) 33.33			Depth Rotating (ft) 397.00		Depth Sliding (ft) 100.00	
Contacts																					
Contacts: DRLG RIG, UNIT 407, 432-448-7815; DRLG ENG, NICK GOREE, PRES; GEOLOGIST, ADAM CARR, PRES; CONSLTNT, DOUG BESSIRE, VARNELL; CONSLTNT, TOMMY PAXTON, ACOCK ENG																					
Daily Time Log																					
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments					Hole Section	Interval	Category	Activity		NPT						
05:00	10:15	5.25	1,013	1,013	TESTED BOP'S 250/5000 PSI, HYDRILL 250/3500 PSI. TEST MUD LINE 250/5000 PSI. CHOKE MANIFOLD 250/5000 PSI. TEST TIW AND DART VALVE 250/5000 PSI, PULL TEST PLUG LAY DOWN TEST JOINT.					MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD		No						
10:15	15:30	5.25	1,013	1,013	INSTALLED THREE SECTIONS OF FLOWLINE, INSTALLED CATCH CAN WITH TARP, ROTATED MOUSEHOLE, TRIP TANK LINE, TURNED BUCKLES, CENTERED STACK, CLOSE 2" CASING VALVES, PICK UP NIPPLE UP AREA, CLOSED CELLAR COVERS					MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD		No						
15:30	18:30	3.00	1,013	1,013	PICKED UP BHA #2 WITH A 1.75" 7/8 LOBE 4 STAGE MUD MOTOR, NMDC, GAP SUB, NMDC, XO SUB, 6 1/2 DC, AND XO SUB. MADE UP BIT #2 12 1/4 HALLIBURTON MM65DC Ser No. 12868518. INSTALLED AND PROGRAMMED EM TOOL.					MOB	MOB	SKID/WALK	P/U & L/D BHA		No						
18:30	21:00	2.50	1,013	1,013	INSTALLED CORROSION RING IN XO SUB AT TOP OF BHA AND PICKED UP DRILL PIPE OFF OF RACKS TO 850 ft.					MOB	MOB	SKID/WALK	TRIPS		No						
21:00	21:15	0.25	1,013	1,013	INSTALLED ROTATING HEAD					MOB	MOB	SKID/WALK	BOP/OTHER		No						
21:15	23:00	1.75	1,013	1,013	WASHED FROM 850 ft TO 867 ft (TAGGED FLOAT COLLAR). DRILLED FLOAT COLLAR AND CEMENT TO 1013 ft.					MOB	MOB	SKID/WALK	DRILL W/ MUD		No						
23:00	23:45	0.75	1,013	1,013	* CHANGED OUT AIR PUMP ON ACCUMULATOR WHILE DRILLING CEMENT. FINISHED DRAW DOWN TEST ON ACCUMULATOR (3 MINS AND 11 SECS TO PRESSURE BACK UP WITH ELECTRIC PUMP AND 2 MINS AND 51 SECS WITH AIR PUMPS). TIGHTENED LEAK ON FLOW LINE.					MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD		No						
23:45	05:00	5.25	1,013	1,510	ROTATE/SLIDE DRILL FROM 1013 ft TO 1510 AT 94.7 fph ROTATE DRILL: 397 ft IN 3.5 hrs. AT 113.4 fph AVERAGE ROP. SLIDE DRILL: 100 ft. IN 1.75 hrs. AT 57 fph AVERAGE ROP. ROTATE 80%, SLIDE 20% (FULL RETURNS)					INT	DIR	DRILL	DRILL W/ MUD		No						
Drilling Parameters																					
Start Depth (ftKB)	End Depth (ftKB)	Rot Time (hr)	Slide Time (hr)	Int ROP (ft/hr)	TFO (°)	dP (SPP) (psi)	WOB (1000lbf)	Q Rate (gpm/cfm)	SPP (psi)	RPM (rpm)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drill Tq	T BH (°F)							
869	1,013	0.75	0.00	82.7		150	10	400	505.0	20	74	74	3,000								
1,013	1,075	0.00	0.50	40.0	163	200	10	400	505.0	40	74	74	3,000								
1,075	1,095	0.00	0.50	40.0		140	7	470	550.0		74	74									
1,095	1,168	0.75	0.00	97.3		200	10	470	650.0	60	82	78	7,000								
1,168	1,188	0.00	0.50	40.0	163	125	6	548	635.0		82	78									
1,188	1,261	0.75	0.00	97.3		200	20	548	765.0	60	82	78	7,000								
1,261	1,281	0.00	0.25	80.0	163	325	9	627	880.0		82	78									
1,281	1,355	0.50	0.00	148.0		500	25	627	1,200.0	60	86	82	9,000								
1,355	1,375	0.00	0.25	80.0	153	300	11	627	975.0		86	82									
1,375	1,447	0.50	0.00	144.0		500	20	627	1,200.0	60	86	82	8,000								
1,447	1,467	0.00	0.25	80.0	143	250	15	665	975.0		86	82									
1,467	1,510	0.25	0.00	172.0		500	25	665	1,300.0	60	86	82	8,000								
Bit / BHA Information																					
Drill Bit				Bit Run	Make	Type	Bit Dull	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	Max RPM (rpm)					
17 1/2in, HAMMER, 235252				1	NUMA	HAMMER BIT	-----TD	61	1,013	952	15.00	63.5	15.00		63.5	40					
12 1/4in, MM65DC, 12868518				1	HALLIBURTON	PDC	-----	1,013	1,510	497	5.25	94.7	3.50	1.75	113.4	173					
Current BHA Components																					
BHA No	Item Description					Make	Model	OD (in)	Jts	Length (ft)	Top Thread	Gauge (in)	Fish Neck OD (in)	FN Len (ft)							
2	DRILL PIPE					UNIT	UNIT	5	44	1,376.00	4 1/2 IF										
2	XO SUB					UNIT	UNIT	6 3/16	1	3.13	REG		6 3/16								
2	DRILL COLLAR					UNIT	UNIT	6 1/2	1	31.15	REG		6 1/2	3.00							
2	XO SUB					QES	QES	8	1	2.88	REG		6 5/8	1.50							
2	NMDC					QES	QES	8 1/8	1	30.48	REG		8 1/8	3.00							
2	ECM GAP SUB							8	1	5.60	REG		8	3.00							
2	NMDC					QES	QES	8 1/8	1	30.54	REG		8 1/8	3.00							
2	MUD MOTOR					QES	QES	9 5/8	1	28.53	REG		8	3.00							
Mud Motor Details																					
BHA... 2	Item Description MUD MOTOR				OD (in) 9 5/8	Length (ft) 28.53	Make QES	Model QES			Serial Number 963 QES 010		Tq Max (ft·lb) 14,930	Start Hrs (hr) 0.00	End Hrs (hr) 5.25						
Degree Bend 1.75					Bit to Bend (ft) 6.75					RPG 0.17											
Mud Reports																					
Date 4/4/2017		Type BRINE		Source			Depth (ftKB) 1,013	Density (lb/gal) 10.00	Mud Temp Out...		Vis (s/qt) 28	PV Calc (cP) 1.0		YP Calc (lb/10... 2							
Gel (10s) (lb/1... 1.000	Gel (10m) (lb/1... 1.000	Gel (30m) (lb/1... 1.000	Vis 3rpm 1	Vis 6rpm 1	Vis 100rpm 1	Vis 200rpm 2	Vis 300rpm 3	Vis 600rpm 4	pH 7.5	Pm Filtrate (mL... 100.0		Pm (mL/mL)									
Alkalinity (mL/... 1.4	Corrected Solid... 1.4	LGS (%) 1.4	HGS (%) 0.0	ASG (sg(h2o))	LGS Wt (lb/bbl) 13.0	HGS Wt (lb/gal) 0.0	LCM (lb/bbl)	Chlorides (mg/L) 170,000	Hardness Ca (... 2,000	Filtrate (mL/30... 100.0		FC (1/32") 2									
Date 4/4/2017		Type BRINE		Source			Depth (ftKB) 1,013	Density (lb/gal) 10.00	Mud Temp Out...		Vis (s/qt) 28	PV Calc (cP) 1.0		YP Calc (lb/10... 2							
Gel (10s) (lb/1... 1.000	Gel (10m) (lb/1... 1.000	Gel (30m) (lb/1... 1.000	Vis 3rpm 1	Vis 6rpm 1	Vis 100rpm 1	Vis 200rpm 2	Vis 300rpm 3	Vis 600rpm 4	pH 7.0	Pm Filtrate (mL... 100.0		Pm (mL/mL)									
Alkalinity (mL/... 1.4	Corrected Solid... 1.4	LGS (%) 1.4	HGS (%) 0.0	ASG (sg(h2o))	LGS Wt (lb/bbl) 13.0	HGS Wt (lb/gal) 0.0	LCM (lb/bbl)	Chlorides (mg/L) 170,000	Hardness Ca (... 2,000	Filtrate (mL/30... 100.0		FC (1/32") 1									
Mud Volumes: Gains and Losses																					
Additions (bbl)		Losses (bbl)			Additions - Losses (bbl)			Cum Additions (bbl)			Cum Losses (bbl)			Cum Additions - Losses (bbl)							



PERMIAN RESOURCES, LLC
Daily Drilling Report

UNIVERSITY 11 RE 936HS
PRES WELL NO. 154
UNIT 407

Report Date 4/5/2017
Report # 7
Projected Days 18
Drilling Days 1
Current Depth 1,510
Depth Progress 497
Planned VS 11,102
Current VS 16
AFE # 1550416
Total AFE 2,371,629

BOPE Testing									
Type BOP TEST				Last Date 4/4/2017		Next Check Date 4/25/2017		Days Until Next Check (days) 21	
Leak Off and Formation Integrity Tests									
Test Type		Test Date	Depth (ftKB)	Fluid	Fluid Dens (lb/gal)	Sfc Press (psi)	MWE (lb/gal)	Com	
CASING		3/27/2017	1,011.0	FRESH WATER	8.30	1,000.0	27.34	TESTED 13 3/8 CASING TO 1000psi FOR 30 MINUTES.	
Casing Design									
Casing Description		Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ftKB)	Length (ft)
CONDUCTOR		3/15/2017		20	133.00	J-55	WELDED	61.0	40.00
SURFACE		3/27/2017		13 3/8	54.50	J-55	BUTTRESS THREAD	1,013.0	995.30
INTERMEDIATE				9 5/8	40.00	HCK55		6,650.0	7,080.99
PRODUCTION								17,549.0	
Survey Data									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)	
800	0.26	87.65	800	-1.69	1.69	0.81	0.28	0.02	
850	0.27	61.63	850	-1.75	1.75	1.03	0.24	0.02	
912	0.15	234.11	912	-1.77	1.77	1.09	0.68	-0.19	
1,030	0.50	343.70	1,030	-2.18	2.17	0.82	0.48	0.30	
1,123	0.90	170.70	1,123	-1.84	1.84	0.82	1.50	0.43	
1,216	2.50	170.50	1,216	0.88	-0.88	1.28	1.72	1.72	
1,310	4.70	166.60	1,310	6.64	-6.65	2.51	2.35	2.34	
1,403	6.90	169.40	1,402	15.84	-15.85	4.42	2.38	2.37	
Mud Logging Information									
Lithology and Shows					Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)
Geological Data									
Formation Name				Prog Top TVD (ftKB)		Drill Top MD (ftKB)		Drill Top (TVD) (ftKB)	
SALEDO				883					
YATES				1,427					
SEVEN RIVERS				1,591					
QUEEN				2,045					
GRAYBURG				2,298					
SAN ANDRES				3,036					
BASE- SAN ANDRES				3,565					
SPRABERRY UPPER				5,674					
SPRABERRY LOWER				6,172					
JO-MILL SAND				6,488					
DEAN				6,985					
WOLFCAMP A				7,132					
WFMPA1_141_SH				7,282					
EH&S Report									
Time Since LTI (days) 412					Time Since Reportable Incident (days) 3				
Type		Time	Description			Comments			
SAFETY MEETING		05:30	PRE TOUR SAFETY MEETING			TESTING BOP'S			
SAFETY MEETING		17:30	PRE TOUR SAFETY MEETING			PICKING UP BHA/ FIRST DAY BACK			
Job Supplies									
Supply Item Description		Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)	
COMPRESSED NATURAL GAS		192.0	192.0			0.0	197.94	296.91	
MUD DIESEL			0.0			9,890.0	0.0	0.00	
RIG FUEL			620.0			13,664.0	936.0	1,731.60	



PERMIAN RESOURCES, LLC UL Daily Drilling Partner Summary

UNIVERSITY 11 RE 936HS PRES WELL NO. 154

Report End Date: 4/6/2017
Report Number: 8
Rig: UNIT, 407
Projected Days (days): 18
Drilling Days: 2
End MD (ftKB): 3,366
Depth Progress (ft): 1,856
Planned VS (ft): 11,102
Current VS (ft): 300
AFE Number: 1550416

API 42383398350000	Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9	Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 3/26/2017	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 17,549				
Status at Report Time DRILLING 12 1/4 INTERMEDIATE HOLE AT 3366 ft										
Operations Summary ROTATE/SLIDE DRILL FROM 1510 FT TO 3366 FT. (1856 ft/79 fph) 1/2 HOUR RIG SERVICE LAST SURVEY: DEPTH- 3290 INC- 9.50°, AZ- 159.10, TVD- 3265.96, VS- 292.93 , AHEAD- 15.5, LEFT- 8, TEMP 97° MW- 9.6, VIS-28 BIG RIG SPUD DATE: 4-4-2017 AT 23:45 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)				Planned Operations DRILL 12 1/4 INTERMEDIATE HOLE TO 6650 ft						
Start MD (ftKB) 1,510		End MD (ftKB) 3,366		Depth Progress (ft) 1,856		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 79.0		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	15:00	10.00	1,510	2,391	ROTATE/SLIDE DRILL FROM 1510 ft. TO 2391, 881ft AT 88.1 fph ROTATE DRILL: 751 ft IN 7.5 hrs. AT 100.1fph AVERAGE ROP. SLIDE DRILL: 130 ft. IN 2.5hrs. AT 52fph AVERAGE ROP. ROTATE 75%, SLIDE 25% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	No
15:00	15:30	0.50	2,391	2,391	RIG SERVICE	INT	DIR	DRILL	LUBRICATE RIG	No
15:30	05:00	13.50	2,391	3,366	ROTATE/SLIDE DRILL FROM 2391 ft. TO 3366 AT 72.2 fph ROTATE DRILL: 880 ft IN 11 hrs. AT 80 fph AVERAGE ROP. SLIDE DRILL: 95 ft. IN 2.5 hrs. AT 38 fph AVERAGE ROP. ROTATE 90%, SLIDE 10% (FULL RETURNS) * AT 3000 ft, SLOWED PUMP RATE TO 665 gpm AND STARTED RUNNING FRESH WATER TO CUT MW FROM 10.1 ppg TO 9.6 ppg. AFTER TURNING OFF WATER HOLE WAS SEEPING AT APPROXIMATELY 110 bbls/hr. SLOWED PUMP RATE TO 507 gpm. MIXED AND PUMPED 40 bbl LCM SWEEP WITH 10 ppb CEDAR FIBER AND 10 ppb PAPER. SEEPAGE SLOWED TO APPROXIMATELY 30 - 40 bbls/hr. RAISED LCM CONCENTRATION IN PILL TO 15 ppb CEDAR FIBER AND 15 ppb PAPER. PUMPED 20 bbls AND SEEPAGE STOPPED.	INT	DIR	DRILL	DRILL W/ MUD	No



PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 11 RE 936HS PRES WELL NO. 154

Report End Date: 4/7/2017
Report Number: 9
Rig: UNIT, 407
Projected Days (days): 18
Drilling Days: 3
End MD (ftKB): 4,995
Depth Progress (ft): 1,629
Planned VS (ft): 11,102
Current VS (ft): 519
AFE Number: 1550416

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 3/26/2017		Total Depth Date		Rig Release Date		Target Formation WFMPA1_141_SH		Proposed TD (ftKB) 17,549		
Status at Report Time DRILLING 12 1/4 INTERMEDIATE HOLE AT 4995 ft										
Operations Summary ROTATE/SLIDE DRILL FROM 3366 FT TO 4995 FT. (1629 ft/69.3 fph) 1/2 HOUR RIG SERVICE LAST SURVEY: DEPTH- 4888 INC- 7.5°, AZ- 169.00, TVD- 4847.20, VS- 513.52 , BEHIND- 2.2, RIGHT- 5, TEMP 106° MW- 9.7, VIS- 27 BIG RIG SPUD DATE: 4-4-2017 AT 23:45 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)					Planned Operations DRILL 12 1/4 INTERMEDIATE HOLE TO 6650 ft					
Start MD (ftKB) 3,366		End MD (ftKB) 4,995		Depth Progress (ft) 1,629		Drilling Time (hr) 23.50		Avg ROP (ft/hr) 69.3		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	15:45	10.75	3,366	4,088	ROTATE/SLIDE DRILL FROM 3366 ft. TO 4088, 722 ft AT 67.2 fph ROTATE DRILL: 682 ft IN 9.75 hrs. AT 69.9 fph AVERAGE ROP. SLIDE DRILL: 40 ft. IN 1 hrs. AT 40 fph AVERAGE ROP. ROTATE 90%, SLIDE 10% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	No
15:45	16:15	0.50	4,088	4,088	RIG SERVICE	INT	DIR	DRILL	LUBRICATE RIG	No
16:15	05:00	12.75	4,088	4,995	ROTATE/SLIDE DRILL FROM 4088 ft. TO 4995, 907 ft AT 71.1 fph ROTATE DRILL: 874 ft IN 11.75 hrs. AT 74.4 fph AVERAGE ROP. SLIDE DRILL: 33 ft. IN 1 hrs. AT 33 fph AVERAGE ROP. ROTATE 96%, SLIDE 4% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	No



PERMIAN RESOURCES, LLC UL Daily Drilling Partner Summary

UNIVERSITY 11 RE 936HS PRES WELL NO. 154

Report End Date: 4/8/2017
Report Number: 10
Rig: UNIT, 407
Projected Days (days): 18
Drilling Days: 4
End MD (ftKB): 6,009
Depth Progress (ft): 1,014
Planned VS (ft): 11,102
Current VS (ft): 612
AFE Number: 1550416

API 42383398350000	Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9	Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 3/26/2017	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH	Proposed TD (ftKB) 17,549
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Status at Report Time
CIRCULATING HOLE CLEAN FOR TRIP AT 6009 ft

<p>Operations Summary</p> <p>ROTATE/SLIDE DRILL FROM 4995 FT TO 6009 FT. (1014 ft/ 47.2 fph). TROUBLESHOOT EM TOOL (BATTERIES DEPLETED). PUMPED SWEEPS AND CIRCULATED HOLE CLEAN. 1/2 HOUR RIG SERVICE</p> <p>LAST SURVEY: DEPTH- 5931 INC- 2.5°, AZ- 170.00, TVD- 5885.10, VS- 610.72 , AHEAD- 8, LEFT- 2.5, TEMP 111°</p> <p>MW- 9.6, VIS- 27</p> <p>BIG RIG SPUD DATE: 4-4-2017 AT 23:45 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)</p>	<p>Planned Operations</p> <p>TRIP OUT OF HOLE AND LAY DOWN DIRECTIONAL TOOLS. PULL WEAR BUSHING, RIG UP CASING CREW AND RUN 9 5/8 INTERMEDIATE CASING. CIRCULATE 2 BOTTOMS UP. CEMENT CASING.</p>
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Start MD (ftKB) 4,995	End MD (ftKB) 6,009	Depth Progress (ft) 1,014	Drilling Time (hr) 21.50	Avg ROP (ft/hr) 47.2
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Time Log

Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	17:30	12.50	4,995	5,787	ROTATE/SLIDE DRILL FROM 4995 ft. TO 5787 ft AT 63.4 fph ROTATE DRILL: 732 ft IN 10 hrs. AT 73.2 fph AVERAGE ROP. SLIDE DRILL: 60 ft. IN 2.5 hrs. AT 49.3 fph AVERAGE ROP. ROTATE 92%, SLIDE 8% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	No
17:30	18:00	0.50	5,787	5,787	SERVICED RIG AND TOP DRIVE	INT	DIR	DRILL	LUBRICATE RIG	No
18:00	03:00	9.00	5,787	6,009	ROTATE/SLIDE DRILL FROM 5787 ft. TO 6009 ft AT 24.7 fph ROTATE DRILL: 130 ft IN 3.25 hrs. AT 40 fph AVERAGE ROP. SLIDE DRILL: 92 ft. IN 5.75 hrs. AT 16 fph AVERAGE ROP. ROTATE 59%, SLIDE 41% (FULL RETURNS)	INT	DIR	DRILL	DRILL W/ MUD	No
03:00	03:15	0.25	6,009	6,009	TROUBLESHOOT EM TOOL. BATTERIES DEPLETED.	INT	DIR	DRILL	DIRECTIONAL WORK	No
03:15	05:00	1.75	6,009	6,009	PUMPED 2 20 bbl 30 ppb LCM SWEEPS 15 MINUTES APART AND CIRCULATED AROUND. PUMPED 40 bbl 30 ppb SWEEP FOLLOWED BY 60 bbl HIGH VIS SWEEP AND CIRCULATED HOLE CLEAN.	INT	DIR	DRILL	COND MUD & CIRC	No



PERMIAN RESOURCES, LLC UL Daily Drilling Partner Summary

UNIVERSITY 11 RE 936HS PRES WELL NO. 154

Report End Date: 4/9/2017
Report Number: 12
Rig: UNIT, 407
Projected Days (days): 18
Drilling Days: 6
End MD (ftKB): 6,009
Depth Progress (ft): 0
Planned VS (ft): 11,102
Current VS (ft): 612
AFE Number: 1550416

API 42383398350000		Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9		Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 3/26/2017		Total Depth Date		Rig Release Date 4/9/2017		Target Formation WFMPA1_141_SH		Proposed TD (ftKB) 17,549		
Status at Report Time RIG RELEASED TO THE UNIVERSITY 11RE 931HS										
Operations Summary CIRCULATE 2 BOTTOMS UP AND PREP TO CEMENT. WAIT ON CREST CEMENTERS. CEMENT 9 5/8" CASING. TEST CASING. LAY DOWN LANDING JOINT. INSTALL 9 5/8" PACKOFF AND TEST. NIPPLED DOWN BOP AND INSTALLED TA CAP. RIG RELEASED TO THE UNIVERSITY 11RE 931HS AT 20:00 hrs ON 4-9-2017. LAST SURVEY: DEPTH- 5931 INC- 2.5°, AZ- 170.00, TVD- 5885.10, VS- 610.72 , AHEAD- 8, LEFT- 2.5, TEMP 111° MW- 9.7, VIS- 27 BIG RIG SPUD DATE: 4-4-2017 AT 23:45 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)					Planned Operations WALK RIG TO THE UNIVERSITY 11RE 931HS. NIPPLE UP BOP AND TEST					
Start MD (ftKB) 6,009		End MD (ftKB) 6,009		Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	06:30	1.50	6,009	6,009	CIRCULATE 2 BOTTOMS UP	INT	DIR	CSG/CEMENT	COND MUD & CIRC	No
06:30	08:15	1.75	6,009	6,009	CIRCULATE AND WAIT ON CREST CEMENTERS. RIG UP CREST	INT	DIR	CSG/CEMENT	COND MUD & CIRC	Yes
08:15	08:45	0.50	6,009	6,009	HELD SAFETY MEEETING WITH CREST, UNIT CREWS, TOOLPUSHER AND COMPANY MAN	INT	DIR	CSG/CEMENT	SAFETY MEETING	No
08:45	15:00	6.25	6,009	6,009	CEMENTED 9.625 in CASING AS FOLLOWS: TESTED CEMENT LINES TO 4000 PSI. SPACER: WEIGHTED SPACER 50 bbls, 10.0 ppg LEAD CEMENT: 50/50 POZ C, 1450 SKS, 676 bbls, YLD 2.62, 11.5 ppg. TAIL CEMENT: C+ CEMENT, 200 SKS, 57 bbls, YLD 1.61, 13.2 ppg. DISPLACEMENT: 449 bbls OF 8.33 ppg FRESH WATER, PLUG BUMPED WITH 1758psi (500 psi OVER FCP OF 1223 psi). BLEED BACK 3.5 bbls. FLOATS HELD. RECOVER 98 BBLS CEMENT BACK TO SURFACE ESTIMATED TOP OF LEAD - SURFACE ESTIMATED TOP OF TAIL 5079 ft. TEST CASING TO 1500 PSI FOR 30 MIN	INT	DIR	CSG/CEMENT	RUN CASING	No
15:00	15:45	0.75	6,009	6,009	DRAIN STACK AND WASH THRU WITH SUGAR WATER. RIG DOWN CEMENTERS.	INT	DIR	CSG/CEMENT	RUN CASING	No
15:45	16:15	0.50	6,009	6,009	BACK OUT LANDING JOINT AND LAY DOWN	INT	DIR	CSG/CEMENT	RUN CASING	No
16:15	17:00	0.75	6,009	6,009	SET 9 5/8" PACK-OFF AND TEST TO 3000 PSI.	INT	DIR	CSG/CEMENT	BOP/OTHER	No
17:00	20:00	3.00	6,009	6,009	NIPPLED DOWN BOP. HUNG OFF FLOWLINE WITH HOIST AND CHAINED UP COFLEX HOSE FOR WALK. WALKED RIG TOWARD MUD TANKS AND REMOVED SPACER SPOOLS. INSTALLED TA CAP AND TORQUED BOLTS. RIG RELEASED AT 20:00 hrs ON 4-9-2017.	INT	DIR	CSG/CEMENT	BOP/OTHER	No



PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY 11 RE 936HS PRES WELL NO. 154

Report End Date: 4/9/2017
Report Number: 11
Rig: UNIT, 407
Projected Days (days): 18
Drilling Days: 5
End MD (ftKB): 6,009
Depth Progress (ft): 0
Planned VS (ft): 11,102
Current VS (ft): 612
AFE Number: 1550416

API 42383398350000	Surface Legal Location UL SURVEY, A-U251, BLOCK 11, SECT 9	Latitude 31.2138700000	Longitude -101.5024500000	Orig KB El... 2,687.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 3/26/2017	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 17,549				
Status at Report Time CIRCULATING PRIOR TO CEMENTING 9 5/8 CASING										
Operations Summary PERFORMED CLEAN UP CYCLE . TOOH TO RUN 9 5/8" CASING. LAID DOWN DIRECTIONAL TOOLS. PULLED WEAR BUSHING. RIGGED UP CASING CREW. RAN CASING TO 5998 ft. CIRCULATED 2 BOTTOMS UP. LAST SURVEY: DEPTH- 5931 INC- 2.5°, AZ- 170.00, TVD- 5885.10, VS- 610.72 , AHEAD- 8, LEFT- 2.5, TEMP 111° MW- 9.7, VIS- 27 BIG RIG SPUD DATE: 4-4-2017 AT 23:45 NEXT WELL: UNIVERSITY 11 RE 931HS (WALK)				Planned Operations FINISH CIRCULATING 2 BOTTOMS UP. SWITCH OVER TO CEMENTERS AND CEMENT CASING. BACK OUT AND LAY DOWN LANDING JOINT. INSTALL PACK OFF AND TEST. NIPPLE DOWN BOP. INSTALL WELL CAP. RELEASE RIG TO THE UNIVERSITY 11RE 931HS.						
Start MD (ftKB) 6,009		End MD (ftKB) 6,009		Depth Progress (ft) 0		Drilling Time (hr)		Avg ROP (ft/hr)		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
05:00	08:15	3.25	6,009	6,009	PERFORM CLEAN UP CYCLE. PUMP 60 BBL HI-VIS SWEEP.	INT	DIR	DRILL	COND MUD & CIRC	No
08:15	12:45	4.50	6,009	6,009	FLOW CHECK. PUMP 80 BBL 10 PPG SLUG. TRIP OUT OF HOLE (SLM) TIGHT SPOTS 3335' TO 2989' 40-65K. TIGHT SPOT 2541' 65K. WORKED THRU TIGHT SPOTS.	INT	DIR	DRILL	TRIPS	No
12:45	14:30	1.75	6,009	6,009	LAID DOWN BHA No. 2 FROM 134 ft TO SURFACE. GRADED BIT No. 2 HALLIBURTON MM65DC Ser No. 12868518 2-2-FC-S-X-0-BT-TD	INT	DIR	DRILL	P/U & L/D BHA	No
14:30	15:00	0.50	6,009	6,009	RIG SERVICE	INT	DIR	DRILL	LUBRICATE RIG	No
15:00	15:30	0.50	6,009	6,009	PULLED WEAR BUSHING. REMOVED RIG ELEVATORS, L/D HYD SLIPS.	INT	DIR	DRILL	BOP/OTHER	No
15:30	16:30	1.00	6,009	6,009	HPJSM AND RIGGED UP EXPRESS CASING CREW	INT	DIR	DRILL	RUN CASING	No
16:30	17:00	0.50	6,009	6,009	HPJSM WITH EXPRESS CASING CREW, UNIT RIG HANDS, TOOL PUSHER AND COMPANY MAN ON RUNNING CASING.	INT	DIR	CSG/CEMENT	SAFETY MEETING	No
17:00	03:00	10.00	6,009	6,009	MAKED UP SHOE TRACK, AND RAN 151 JTS 9 5/8" HCK-55 40# LTC TO 5998'. PICKED UP TAG JOINT AND TAGGED BOTTOM AT 6015 ft BY CASING TALLY (2 JOINTS OFF BOTTOM, DROPPED BALL TO ACTIVATE FLOATS). LAID DOWN TAG JOINT. MADE UP LANDING JOINT, AND SET HANGER IN WELL HEAD AS PER SWECO FIELD TECH. CENTRALIZER PLACEMENT: HALF WAY UP ON FIRST JOINT, ON SECOND AND THIRD JOINT, AND EVERY THIRD JOINT TO SURFACE. AUTO FILL FLOAT SHOE AT 5998 ft AUTO FILL FLOAT COLLAR AT 5914 ft ** HOLE DID NOT DISPLACE FOR THE FIRST 80 JOINTS. ON THE 81st JOINT, THE HOLE STARTED DISPLACING AT A RATE OF 4 bbls/JOINT, INDICATING THAT THE AUTO FILL FLOAT WAS PLUGGED. RIGGED UP SWAGE AND CIRCULATING IRON, AND PUMPED THROUGH FLOATS (TOOK 18 bbls TO FILL PIPE). CONTINUED RUNNING CASING, AND HOLE WAS STILL DISPLACING AT 4 bbls/JOINT, INDICATING ONE OF THE AUTO FILL FLOATS HAD CLOSED. STARTED FILLING CASING ON THE FLY, AND STOPPED EVERY 30 JOINTS AND FILLED PIPE.	INT	DIR	CSG/CEMENT	RUN CASING	No
03:00	05:00	2.00	6,009	6,009	MADE UP SWAGE AND CIRCULATED 2 BOTTOMS UP (7225 STROKES) AT 295 gpm.	INT	DIR	CSG/CEMENT	COND MUD & CIRC	No