

SABLE PERMIAN RESOURCES, LLC
Daily Drilling Report

Report Date 12/9/2018
Report # 1
Projected Days 14.84
Drilling Days
Current Depth 1,149
Depth Progress 1,088
Planned VS
Current VS
AFE # 1550647
Total AFE 2,287,148

UNIVERSITY LANDS 10 36-01 06HS

WELL NO. 288
INTEGRITY 3

API 42383404570000		Surface Legal Location UL SURVEY, A-U242, BLOCK 10		Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN		State TEXAS				
Report Summary														
Well Spud 12/8/2018	TD Date 1/18/2019	RR Date 12/9/2018	Target Formation WFMPA1_141_SH	Prop TD (ftKB) 18,776	Target Line	Pers Tot Hrs (hr) 3,312.00	Drilling AFE 2,287,148	Daily Field Est (Cost) 122,514	Cum Field Est (Cost) 122,514					
Status at Report Time Running 27 JTS of 13 3/8 Casing														
Operations Summary 0-HSE						Planned Operations Finish running casing, Cement well. Walk to 07HA								
Skid rig to 06HS, Pick up and Make up BHA, Drill with Air From/ 61' to 1,128' (TD). POOH to Surface. Run 13 3/8 Casing to 998'.														
Start MD (ftKB) 61			End MD (ftKB) 1,149		Depth Progress (ft) 1,088		Drilling Time (hr) 17.50		Avg ROP (ft/hr) 62.2					
Rotating Time (hr) 17.50		Sliding Time (hr)		Rotating ROP (ft/hr) 62.2	Sliding Rop (ft/hr)	% Rotating Time (%) 100.00		% Sliding Time (%) 0.00	Depth Rotating (ft) 1,088.00	Depth Sliding (ft)				
Contacts														
Contacts: SPUD RIG, INTEGRITY 3, 361-827-3304; SPUD RIG, INTEGRITY 3, 361-827-3304; DSV, MATT YOCHAM. ; DSV, STEVE FUTCH. ; DSV, TRENT VAUGHT.														
Daily Time Log														
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT				
06:00	07:00	1.00	61	61	Skid from the 02HA to to 06HS. Center over hole, set rig. Set cat walk and make all hoses up from compressors to rig. Install pipe racks lay out BHA.	SURF	VERT	DRILL	SKID/WALK	No				
07:00	07:30	0.50	61	61	P/U and M/U BHA with 17.5" Air bit.	SURF	VERT	DRILL	P/U & L/D BHA	No				
07:30	08:00	0.50	61	131	Drilling with Air F/61' - T/ 131'	SURF	VERT	DRILL	DRILL W/ AIR	No				
08:00	08:30	0.50	131	131	Change out BHA air rubber with, Drill pipe Rubber.	SURF	VERT	DRILL	BOP/OTHER	No				
08:30	01:30	17.00	131	1,149	Drill with Air F/131' - T/1,149'	SURF	VERT	DRILL	DRILL W/ AIR	No				
01:30	02:00	0.50	1,149	1,149	Circulate with air. Prepare to POOH with vertical Air BHA .	SURF	VERT	CSG/CEMENT	COND MUD & CIRC	No				
02:00	03:00	1.00	1,149	1,149	POOH from 1,149' to 119'.	SURF	VERT	CSG/CEMENT	P/U & L/D DRILL PIPE	No				
03:00	03:30	0.50	1,149	1,149	L/D 17.5" Vertical Air BHA	SURF	VERT	CSG/CEMENT	P/U & L/D BHA	No				
03:30	04:00	0.50	1,149	1,149	Rig up and Pick up casing hanging tools prepare to run 13 3/8 casing.	SURF	VERT	CSG/CEMENT	RUN CASING	No				
04:00	05:30	1.50	1,149	1,149	Run 27 JTS of 13 3/8 54.5# J-55 casing. to 998'	SURF	VERT	CSG/CEMENT	RUN CASING	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	131	0.50	0.00	140.0			1			40			1	
131	1,149	17.00	0.00	59.9			1			40			1	88.0
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, <model>, <sn>		1	NUMA	HAMMER BIT	-----	61	1,149	1,088	17.50	62.2	17.50		62.2	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	AIR HAMMER			TRANSCEND	TRANSCEND	10.63	1	6.58	REG					
1	DRILL COLLAR			TRANSCEND	TRANSCEND	8	1	30.76	REG					
1	XO SUB			TRANSCEND	TRANSCEND	5 1/2	1	2.64	FH					
1	DRILL COLLAR			TRANSCEND	TRANSCEND	5 1/2	2	56.51	FH					
1	XO SUB			TRANSCEND	TRANSCEND	5 1/2	1	1.33	IF					
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 BOP TEST					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		12/15/2018	990.0	fresh water	8.40	1,000.0	27.84	30 minute test with cement unit.						
Casing Design														
Casing Description		Run Date	Pull Date	OD (in)	Wt (lb/ft)	Grade	Conn		Set Depth (ftKB)	Length (ft)				
CONDUCTOR		12/1/2018		20	133.00	J-55	WELDED		61.0	40.00				
SURFACE		12/9/2018		13 3/8	54.50	J-55	BUTTRESS THREAD		1,055.0	1,055.68				
INTERMEDIATE				9 5/8	40.00	J-55	LT&C		7,269.0	7,269.39				
PRODUCTION				5 1/2	17.00	HCP-110			18,776.0	18,755.00				
Survey Data														
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	BUR (°/100ft)						
6,240	1.00	67.30	6,190	-184.02	233.58	-599.21	0.11	0.11						
6,335	1.00	75.00	6,285	-184.68	234.11	-597.64	0.14	0.00						
6,431	1.10	72.60	6,381	-185.31	234.61	-595.96	0.11	0.10						
6,525	1.20	72.20	6,475	-186.02	235.18	-594.16	0.11	0.11						
6,620	1.20	73.00	6,570	-186.77	235.77	-592.26	0.02	0.00						
6,715	1.10	74.10	6,665	-187.46	236.31	-590.43	0.11	-0.11						
6,811	1.10	74.40	6,761	-188.10	236.81	-588.66	0.01	0.00						
6,906	1.10	73.70	6,856	-188.74	237.31	-586.90	0.01	0.00						
Mud Logging Information														
Lithology and Shows						Max Trip Gas (units)		Avg Drill Gas (units)		Max Drill Gas (units)				
EH&S Report														
Time Since LTI (days)						Time Since Reportable Incident (days)								
Type		Time	Description			Comments								
Job Supplies														
Supply Item Description		Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed	Cum Field Est (Cost)					

Report Date	12/9/2018
Report #	2
Projected Days	14.84
Drilling Days	
Current Depth	1,149
Depth Progress	0
Planned VS	
Current VS	
AFE #	1550647
Total AFE	2,287,148

WELL NO. 288
INTEGRITY 3

API 42383404570000		Surface Legal Location UL SURVEY, A-U242, BLOCK 10		Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN		State TEXAS							
Report Summary																	
Well Spud 12/8/2018	TD Date 1/18/2019	RR Date 12/9/2018	Target Formation WFMPA1_141_SH		Prop TD (ftKB) 18,776	Target Line		Pers Tot Hrs (hr) 3,312.00		Drilling AFE 2,287,148	Daily Field Est (Cost) 57,102	Cum Field Est (Cost) 179,616					
Status at Report Time Skid over to 07HA																	
Operations Summary 0- HSE						Planned Operations Skid to next well 07HA.											
Wash down 1-JT of 13 3/8 casing. Work stuck pipe, Run 1" pipe down back side to try and wash free (Unsuccessful). L/D 1" Pipe. Make the call to move to next well.																	
Start MD (ftKB) 1,149			End MD (ftKB) 1,149			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; SUPT, KENNETH DABNEY, ; WVT, NATE COOK, ; DSV, RAY KUREK, ; DSV, TRENT VAUGHT.																	
Daily Time Log																	
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments				Hole Section	Interval	Category	Activity	NPT				
06:00	07:00	1.00	1,149	1,149	Wash down 1 JTS of 13 3/3 Casing.				SURF	VERT	CSG/CEMENT	RUN CASING	No				
07:00	11:30	4.50	1,149	1,149	Work Stuck casing @ 1,055'. Adjusting parameters to try and get free. Pumping on casing @ 5 BBLS a min with cement truck. Work up and down 120K up and 60K down. Pipe did not come free.				SURF	VERT	CSG/CEMENT	BOP/OTHER	No				
11:30	14:00	2.50	1,149	1,149	Run 1" wash pipe on back side of casing. Ran to approximately 600'. Couldn't get any further decide to pull out of hole with wash pipe.				SURF	VERT	CSG/CEMENT	BOP/OTHER	No				
14:00	15:00	1.00	1,149	1,149	L/D 1" wash pipe from back side of well.				SURF	VERT	CSG/CEMENT	BOP/OTHER	No				
15:00	16:00	1.00	1,149	1,149	Work Stuck casing @ 1,055'. Adjusting parameters to try and get free. Pumping on casing @ 5 BBLS a min with cement truck. Work up and down 120K up and 60K down. Pipe did not come free.				SURF	VERT	CSG/CEMENT	BOP/OTHER	No				
16:00	16:30	0.50	1,149	1,149	L/D JT of 13 3/8 casing from above rotary table.				SURF	VERT	CSG/CEMENT	BOP/OTHER	No				
16:30	17:00	0.50	1,149	1,149	Could not get pipe free. Call was made to rig down off of well and move to next well. Release rig and move to 07HA.				SURF	VERT	CSG/CEMENT	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, <model>, <sn>			1	NUMA		HAMMER BIT	-----		61	1,149	1,088	17.50	62.2	17.50		62.2	40
12 1/4in, CF716, 41498			1	ULTERRA		PDC	7-6-JD-A-X-1-JD-PR		1,149	4,814	3,690	52.00	71.0	38.00	14.00	86.9	208
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	HWDP					UNIT		UNIT		5	15	460.10	IF				
2	XO SUB					CATHEDRAL		CATHEDRAL		8	1	3.95	IF				
2	UBHO SUB					VES		VES		7 15/16	1	2.80	REG				
2	NMDC					CATHEDRAL		CATHEDRAL		7.93	1	29.59	REG		7.81	1.40	
2	NMDC					CATHEDRAL		CATHEDRAL		8	1	28.39	REG		7.93	2.81	
2	ECM GAP SUB					CATHEDRAL		CATHEDRAL		7.93	1	5.86	REG				
2	NMDC					CATHEDRAL		CATHEDRAL		8	1	28.46	REG		8	2.40	
2	NMDC					CATHEDRAL		CATHEDRAL		8	1	27.88	REG		8	2.20	
2	STABILIZER					CATHEDRAL		CATHEDRAL		11 1/2	1	6.69	REG		8	2.70	
2	MUD MOTOR - BENT HOUSING					CATHEDRAL		CATHEDRAL		8	1	27.24	REG		7 7/8	2.29	
Mud Motor Details																	
BHA... 2	Item Description MUD MOTOR - BENT HOUSING				OD (in) 8	Length (ft) 27.24	Make CATHEDRAL		Model CATHEDRAL		Serial Number C2-203034		Tq Max (ft·lb) 17,132	Start Hrs (hr) 0.00	End Hrs (hr) 52.00		
Degree Bend 1.83						Bit to Bend (ft) 5.55						RPG 0.16					
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 BOP TEST						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		12/15/2018	990.0	fresh water	8.40		1,000.0		27.84		30 minute test with cement unit.						
Casing Design																	
Casing Description			Run Date		Pull Date		OD (in)	Wt (lb/ft)	Grade	Conn			Set Depth (ftKB)	Length (ft)			
CONDUCTOR			12/1/2018				20	133.00	J-55	WELDED			61.0	40.00			
SURFACE			12/9/2018				13 3/8	54.50	J-55	BUTTRESS THREAD			1,055.0	1,055.68			
INTERMEDIATE							9 5/8	40.00	J-55	LT&C			7,269.0	7,269.39			
PRODUCTION							5 1/2	17.00	HCP-110				18,776.0	18,755.00			
Survey Data																	
MD (ftKB)		Incl (°)		Azim (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		BUR (°/100ft)	
6,240		1.00		67.30		6,190		-184.02		233.58		-599.21		0.11		0.11	
6,335		1.00		75.00		6,285		-184.68		234.11		-597.64		0.14		0.00	
6,431		1.10		72.60		6,381		-185.31		234.61		-595.96		0.11		0.10	
6,525		1.20		72.20		6,475		-186.02		235.18		-594.16		0.11		0.11	
6,620		1.20		73.00		6,570		-186.77		235.77		-592.26		0.02		0.00	
6,715		1.10		74.10		6,665		-187.46		236.31		-590.43		0.11		-0.11	
6,811		1.10		74.40		6,761		-188.10		236.81		-588.66		0.01		0.00	
6,906		1.10		73.70		6,856		-188.74		237.31		-586.90		0.01		0.00	
Mud Logging Information																	
Lithology and Shows								Max Trip Gas (units)		Avg Drill Gas (units)			Max Drill Gas (units)				
EH&S Report																	
Time Since LTI (days)								Time Since Reportable Incident (days)									
Type			Time		Description				Comments								
Job Supplies																	
Supply Item Description			Received	Consumed	Returned	Note				Cum On Loc	Cum Consumed		Cum Field Est (Cost)				

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS WELL NO. 288

Report End Date: 1/9/2019
 Report Number: 6
 Rig: UNIT, 407
 Projected Days (days): 15
 Drilling Days:
 End MD (ftKB): 1,149
 Depth Progress (ft): 0
 Planned VS (ft): 10,853
 Current VS (ft):
 AFE Number: 1550647

API 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10	Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 12/8/2018	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 18,776				
Status at Report Time Testing BOP's .										
Operations Summary 0 HSE Walk rig to U.L. 10 36-01 06HS . Nipple up BOP's and surface lines / equipment. Test choke manifold and BOP's. 250 / 3,500 /5,000 .				Planned Operations Finish testing BOP's , TIH with Fasdrill pkr to squeeze shoe , perform squeeze job . P/up 12 1/4" BHA in preparations to drill vertical section.						
Spud date: 1-3-2019 09:15 hrs Next well: 02HA (Walk)										
Start MD (ftKB) 1,149		End MD (ftKB) 1,149		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
20:30	22:15	1.75	1,149	1,149	Walk rig from U.L.10 36-01 01 HS to U.L. 10 36-01 06 HS .Center and level Rig over 06HS, Hook up flow line and mud lines from pumps to substructure.	MOB	MOB	SKID/WALK	SKID/WALK	No
22:15	02:00	3.75	1,149	1,149	Remove cap from well head, Stabbed stack on well head, hooked up choke line to colflex.Center stack in middle of rotary table. Load out csg.tools Unit mechanic changed hydraulic cylinder on catwalk. Set catwalk in place.	MOB	MOB	SKID/WALK	NIPPLE UP B.O.P./WELLHEAD	No
02:00	06:00	4.00	1,149	1,149	Test BOP's and choke manifold . Test BOP's 250 / 3,500 / 5,000 psi . 5 mins low and 5 mins high with H2O. (annular 3,500 high) All test performed with Mid Central test unit on circular chart.	MOB	MOB	SKID/WALK	TEST B.O.P	No

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

Report End Date: 1/10/2019
Report Number: 7
Rig: UNIT, 407
Projected Days (days): 15
Drilling Days:
End MD (ftKB): 1,149
Depth Progress (ft): 0
Planned VS (ft): 10,853
Current VS (ft):
AFE Number: 1550647

UNIVERSITY LANDS 10 36-01 06HS

WELL NO. 288

API 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10	Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 12/8/2018	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 18,776				
Status at Report Time Circulate DP clean.										
Operations Summary 0 HSE Finish testing BOP and surface equipment. Hook up Flow Line and Rotating Head, change dies in Top Drive back up wrench. Make up Halliburton FasDril cement retainer, TIH, set FasDril at set FasDril at 909'. Sting into FasDril, test back side to 500 psi -ok. Rig up Halliburton cementers attempt to squeeze cement . WOC . Attempt to pressure up to 80 psi , failed , Get injection rates, perform squeeze job with success. Bleed pressure off, Sting out of FasDrill pkr. Circulate DP clean with rig pumps.				Planned Operations Circulate drill pipe clean . Trip out of hole Slip and cut drill line , Top Drive maintenance . P/up 12-1/4" BHA.						
Spud date: Next well: 02HA (Walk)										
Start MD (ftKB) 1,149		End MD (ftKB) 1,149		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
06:00	08:00	2.00	1,149	1,149	Test surface equipment and mud standpipe back to the pumps 250 - 5,000 psi.	MOB	MOB	SKID/WALK	TEST B.O.P	No
08:00	10:30	2.50	1,149	1,149	Hook up flow line. Change dies in Top Drive back up wrench, install mousehole	MOB	MOB	SKID/WALK	RIG UP/RIG DOWN	No
10:30	13:00	2.50	1,149	1,149	Make up cement single and lay out same. Make up Halliburton 13 3/8" FasDril composite cement retainer. TIH with 5 stands of 5" HWDP and 5 stands of 5" DP to 941'.	MOB	MOB	SKID/WALK	TRIPS	No
13:00	14:00	1.00	1,149	1,149	Pick up cement single,, make up to work string, and make up to Top Drive. Wash 5' above and 5' below at 3 bpm with fresh water to clear debris from around FasDril. Attempt to set Fas Dril with 25 turns to the right, pick up packer did not set. Make an additional 15 turns to the right, pick up, packer did not set. Halliburton tool Rep made call to town, requested we move FasDril up hole one single. Pull one single and lay out same. Make 25 turns to the right, pick up, take 10k overpull and wait one minute. Pull up 20k over and wait one minute. Pull 30k over and wait one minute. pull 44k over string weight and shear off FasDrill	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
14:00	14:45	0.75	1,149	1,149	Sting out of FasDril picking up 4'. Fill hole with 35 bbls fresh water.Sting back into FasDril and set down 32k. Close Annular and test backside to 500 psi 15 minutes.	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
14:45	16:15	1.50	1,149	1,149	Rig up Halliburton, HPJSM. Attempt to establish injection rates pumping 15 bbls freshwater, never caught any pressure.	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
16:15	18:30	2.25	1,149	1,149	Pump 20 bbls 10% CACL2 spacer. Followed by 5 bbls fresh water spacer. Mix and pump 80 bbls 335 sx 14.8 ppg HALCEM slurry. Yield 1.348 Displace cement with 18 bbls fresh water, placing cement 40 ft. below the retainer leaving16 bbls, or 100' of cement in the casing above the shoe. Shut down pump and wait 10 minutes. Squeeze 5 bbls of cement away at 1 bpm with -0- pressure, shut down pumps leaving 11bbls or 71' of cement inside the casing.Wait 10 minutes - order an additional 400sx of cement from Halliburton, squeeze away 5 bbls cement at 1 bpm with 17 psi. shut down pump leaving 7 bbls of or 43' of cement inside the casing. Shut down pumps and wait 25 minutes. Squeeze 4 bbls of cement away at 1 bpm slowing to 1/2 bpm observing 35 psi, shut down pumps leaving 3 bbls or 19' of cement in the casing. Discuss results with Drilling Supt & Drilling Engineer, while waiting 25 minutes. Squeeze away remaining 3 bbls of cement at 1/2 bpm increase pump rate to 2 bpm pumping 4 bbls to clear casing shoe observe pressure build to 135 psi, shut down pump, pressure bled to zero psi.	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
18:30	19:00	0.50	1,149	1,149	Sting out of FasDril , circulate b/up with rig pump @ 6 bpm.	MOB	MOB	SKID/WALK	COND MUD & CIRC	No
19:00	01:30	6.50	1,149	1,149	Wait on cement .	MOB	MOB	SKID/WALK	WAIT ON CEMENT	No
01:30	02:15	0.75	1,149	1,149	Displace DP volume to 8.4 freshwater, sting into FasDrill, attempt to 80 psi . no success , put 500 psi on backside . Establish injection rates 1 BPM @ 5 psi 4 bbls pumped 2 BPM @ 16 psi 8 bbls pumped 3 BPM @ 170 psi 17 bbls pumped 4 BPM @ 300 psi 22.3 bbls pumped, pressure immediately bled to 0 .	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
02:15	05:00	2.75	1,149	1,149	Pump 20 bbls 10% CACL2 spacer. Followed by 5 bbls fresh water spacer. Mix and pump 90 bbls 376 sx 14.8 ppg HALCEM slurry. Yield 1.348 Displace cement with 18 bbls fresh water, placing cement 40 ft. below the retainer leaving16 bbls, or 100' of cement in the casing above the shoe. Shut down pump and wait 10 minutes. Squeeze 2 bbls of cement away at .5 bpm with 815 psi, shut down pumps leaving 14bbls or 90' of cement inside the casing.Wait 10 minutes pressure bled to 56 psi . Pumped .5 bbl pressure at 830 psi shut down pump leaving 13.5 bbls or 87' of cement inside the casing, after 10 minutes 90 psi ,Pumped .25 bbl pressure 860 psi. shut down pump leaving 13.25 bbls or 86' pf cement in casing.Wait 10 minutes pressure bled to 122 psi . Pumped .25 bbl pressure at 825 psi shut down pump leaving 13 bbls or 84' of cement inside casing . Wait 10 minutes pressure bled to 200 psi . Made call to Drlg. Eng. discussed next plan fwd. to sting out of FasDrill , prep. to circulate pipe clean .	MOB	MOB	SKID/WALK	SQUEEZE CEMENT	No
05:00	05:30	0.50	1,149	1,149	With pressure bled to 0 DP and annulus. Sting out of FasDrill, Circulate with rig pumps long way . Rig down Halliburton lines from drill floor.	MOB	MOB	SKID/WALK	CLEANUP CYCLE	No
05:30	06:00	0.50	1,149	1,149	Lay down po-boy cmt. head .	MOB	MOB	SKID/WALK	BOP/OTHER	No

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS

WELL NO. 288

Report End Date: 1/11/2019
 Report Number: 8
 Rig: UNIT, 407
 Projected Days (days): 15
 Drilling Days:
 End MD (ftKB): 1,189
 Depth Progress (ft): 40
 Planned VS (ft): 10,853
 Current VS (ft):
 AFE Number: 1550647

API: 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10	Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 12/8/2018	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 18,776				
Status at Report Time Drilling ahead at 1189'										
Operations Summary 1 HSE Dropped 6" Nerf ball Circulate DP clean with rig pumps. POOH and lay out Fasdril Running Tool. Slip and cut Drill Line. Change oil and Filters in Top Drive, service Rig Install Wear Bushing. Pick up Cathedral 12 1/4" drilling assembly, drilled cement retainer and rathole, drilled new hole from 1149' to 1189'. Drill Window #1: 5' A/B & 5' L/R Last Gyro Survey: 983' ..16° Inc 319.98° Azm. MW: 9.1 Vis 34 Spud date: Next well: 02HA (Walk)				Planned Operations Drill 12 1/4" Vertical Section as per Plan #1b						
Start MD (ftKB) 1,149		End MD (ftKB) 1,189		Depth Progress (ft) 40		Drilling Time (hr) 2.00				
						Avg ROP (ft/hr) 20.0				
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
06:00	07:45	1.75	1,149	1,149	Circulated surface to surface, TOOH with stinger, L/D Halliburton stinger, inspected connections for cement rings, none were found.	MOB	SKID/W ALK	RIGGING UP	TRIPS	No
07:45	11:45	4.00	1,149	1,149	Continued to WOC, Hang blocks off, slip and cut drill line, change oil in top drive,	MOB	SKID/W ALK	RIGGING UP	CUT SLIP & DRILL LINE	No
11:45	12:15	0.50	1,149	1,149	Installed wear bushing, bushing would not unseat from retrieval tool, unlock and POOH to inspect, re-ran and unseated wear bushing.	MOB	SKID/W ALK	RIGGING UP		No
12:15	16:15	4.00	1,149	1,149	Picked up and made up Cathedral's 12 1/4 BHA with Ulterra CF716, Mud Motor, 8" NMDC Stabilizer & EM Tool. Programmed EM Tool and prepared to run in hole with BHA.	MOB	SKID/W ALK	RIGGING UP	P/U & L/D BHA	No
16:15	17:00	0.75	1,149	1,149	TIH with 12 1/4" drilling assembly, tagged Halliburton's Fas-Drill plug at 910'.	MOB	SKID/W ALK	RIGGING UP	TRIPS	No
17:00	20:15	3.25	1,149	1,149	Break circulation and drilled cement retainer from 910' to 914' 30-50 rotary, 10-24 WOB, 300-400 GPM.	MOB	SKID/W ALK	RIGGING UP	DRILL W/ MUD	No
20:15	22:15	2.00	1,149	1,149	Drill shoe track from 914' to the shoe at 1055' with no weight at the bit., observe soft cement at the shakers, notify Drilling Supt & Drilling Engineer, decision made to continue ahead.	MOB	SKID/W ALK	RIGGING UP	DRILL W/ MUD	No
22:15	04:00	5.75	1,149	1,149	Cleaned out 17 1/2" rathole from 1055', tag up at 1,075' with 14k on the bit. (Suspected we encountered bottom cone of semi-composite bridge plug used to test 13 3/8 surface casing during spudder operations.) Drill and work thru junk continue cleaning out 17 1/2" rat hole to bottom at 1149'.	MOB	SKID/W ALK	RIGGING UP	DRILL SHOE TRACK	No
04:00	06:00	2.00	1,149	1,149	Spudded well, drilled 12 1/4" hole from 1149' to 1189'.	INT	DIR	DRILL	DRILL W/ MUD	No

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS

WELL NO. 288

Report End Date: 1/12/2019
 Report Number: 9
 Rig: UNIT, 407
 Projected Days (days): 15
 Drilling Days:
 End MD (ftKB): 3,368
 Depth Progress (ft): 2,179
 Planned VS (ft): 10,853
 Current VS (ft):
 AFE Number: 1550647

API 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10	Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS			
Report Summary										
Well Spud Date 12/8/2018	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH			Proposed TD (ftKB) 18,776				
Status at Report Time Drilling ahead at 3,368'										
Operations Summary OHSE Rotate & Slide drill 12 1/4" vertical hole from 1,189' to 3,368' Drill Window #1: 5' A/B & 5' L/R Last MWD Survey: 3,207' 10.2° Inc 289.90° Azm. 42' Above 9.3' Right MW: 9.7 Vis 29 Spud date: 1-11-2019 04:00 hrs Next well: 02HA (Walk)				Planned Operations Drill 12 1/4" Vertical Section as per Plan #1b						
Start MD (ftKB) 1,189		End MD (ftKB) 3,368		Depth Progress (ft) 2,179		Drilling Time (hr) 22.75		Avg ROP (ft/hr) 95.8		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
06:00	06:45	0.75	1,189	1,250	Rotate and Slide drill 12 1/4" vertical intermediate hole from 1,189' to 1,250' Maintained system at manageable weight between 9.2 PPG - 9.5 PPG pumping and dumping system as needed.	INT	DIR	DRILL	DRILL W/ MUD	No
06:45	07:30	0.75	1,250	1,250	Changed out rotate head assembly.	INT	DIR	DRILL	COND MUD & CIRC	No
07:30	08:00	0.50	1,250	1,250	Rig Service.	INT	DIR	DRILL	LUBRICATE RIG	No
08:00	06:00	22.00	1,250	3,368	Rotate and Slide drill 12 1/4" vertical intermediate hole from 1,250' to 3,368' Maintained system at manageable weight between 9.2 PPG - 9.7 PPG pumping and dumping system as needed. Started pumping 25 ppb LCM sweeps. LCM sweep: Cotton seed hulls: 7 sx Cedar fiber: 1 super sx Sea-mud: 30 sxs EZ-Mud: 1 bucket Barzan: 4 sx Soda Ash: 1 sx Hauled off Brine: 1300 BBLS	INT	DIR	DRILL	DRILL W/ MUD	No

SABLE PERMIAN RESOURCES, LLC
UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS
WELL NO. 288

Report End Date: 1/13/2019
Report Number: 10
Rig: UNIT, 407
Projected Days (days): 15
Drilling Days:
End MD (ftKB): 4,710
Depth Progress (ft): 1,342
Planned VS (ft): 10,853
Current VS (ft):
AFE Number: 1550647

API 42383404570000				Surface Legal Location UL SURVEY, A-U242, BLOCK 10				Latitude 31.2287060000		Longitude -101.5651940100		Orig KB El... 2,827.00		RKB (ft) 21.00		County REAGAN		State TEXAS			
Report Summary																					
Well Spud Date 12/8/2018				Total Depth Date				Rig Release Date				Target Formation WFMPA1_141_SH						Proposed TD (ftKB) 18,776			
Status at Report Time Drilling ahead at 4,710'																					
Operations Summary OHSE Rotate & Slide drill 12 1/4" vertical hole from 3,368' to 4,710'. Drill Window #1: 5' A/B & 5' L/R Last MWD Survey: 4,629' 7.5° Inc 289.60° Azm. 46.6' Above 10.4' Right MW: 9.5 Vis 32 Spud date: 1-11-2019 04:00 hrs Next well: 02HA (Walk)										Planned Operations Drill 12 1/4" Vertical Section as per Plan #1b											
Start MD (ftKB) 3,368				End MD (ftKB) 4,710				Depth Progress (ft) 1,342				Drilling Time (hr) 23.50				Avg ROP (ft/hr) 57.1					
Time Log																					
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments							Hole Section	Interval	Category	Activity		NPT				
06:00	12:45	6.75	3,368	3,936	Rotate and Slide drill 12 1/4" vertical hole from 3,368' to 3,936'. Dump and dilute as needed to control mud weight							INT	DIR	DRILL	DRILL W/ MUD		No				
12:45	13:15	0.50	3,936	3,936	Rig Service.							INT	DIR	DRILL	LUBRICATE RIG		No				
13:15	23:30	10.25	3,936	4,485	Rotate and Slide drill 12 1/4" vertical hole from 3,936' to 4,485'. Dump and dilute as needed to control mud weight							INT	DIR	DRILL	DRILL W/ MUD		No				
23:30	00:15	0.75	4,485	4,506	Rotate and Slide drill 12 1/4 at a reduced rate with #2 Mud Pump while changing Swab & Liner in #1 Mud Pump #4 cylinder from 4,485' to 4,506'							INT	DIR	DRILL	DRILL W/ MUD		Yes				
00:15	06:00	5.75	4,506	4,710	Rotate and Slide drill 12 1/4" vertical hole from 4,506' to 4,710'. Dump and dilute as needed to control mud weight							INT	DIR	DRILL	DRILL W/ MUD		No				
					Continued pumping 25 ppb LCM sweeps.																
					Hauled off Brine: 2200 BBLS																

Report End Date: 1/14/2019
Report Number: 11
Rig: UNIT, 407
Projected Days (days): 15
Drilling Days: 3
End MD (ftKB): 5,041
Depth Progress (ft): 331
Planned VS (ft): 10,853
Current VS (ft):
AFE Number: 1550647

API 42383404570000		Surface Legal Location UL SURVEY, A-U242, BLOCK 10		Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 12/8/2018		Total Depth Date		Rig Release Date		Target Formation WFMPA1_141_SH		Proposed TD (ftKB) 18,776		
Status at Report Time Drilling ahead at 5,041'										
Operations Summary 0HSE Rotate & Slide drill 12 1/4" vertical hole from 4,710' to 4,814'. Circulate hole clean. POOH from 4,814' to BHA, L/D BHA and bit, P/U 12.25 new bit and 1.83 motor, TIH, worked packed hole, drilled from 4,814' to 5,041'.					Planned Operations Drill 12 1/4" Vertical Section as per Plan #1b					
Drill Window #1: 5' A/B & 5' L/R Last MWD Survey: 4,912' 6.9" Inc 297.10° Azm. 37.4' Above 14.1' Right MW: 9.3 Vis 33 Spud date: 1-11-2019 04:00 hrs Next well: 02HA (Walk)										
Start MD (ftKB) 4,710		End MD (ftKB) 5,041		Depth Progress (ft) 331		Drilling Time (hr) 6.50		Avg ROP (ft/hr) 50.9		
Time Log										
Start Time	End Time	Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Comments	Hole Section	Interval	Category	Activity	NPT
06:00	08:00	2.00	4,710	4,790	Drill 12 1/4" vertical section from 4,710' to 4,790'	INT	DIR	DRILL	DRILL W/ MUD	No
08:00	08:30	0.50	4,790	4,790	Service Rig, change return oil filter on Top Drive	INT	DIR	DRILL	LUBRICATE RIG	No
08:30	09:30	1.00	4,790	4,814	Drill 12 1/4" vertical section from 4,790' to 4,814'	INT	DIR	DRILL	DRILL W/ MUD	No
09:30	10:45	1.25	4,814	4,814	Circulate hole clean, pumped 40 BBLS LCM sweep to gauge hole. Built slug and filled trip tank prepared to pull out of hole.	INT	DIR	DRILL	COND MUD & CIRC	No
10:45	14:30	3.75	4,814	4,814	POOH from 4,814' to BHA. Lost returns while TOOH around 2,000'. Continue POOH pumping calculated pipe displacement.	INT	DIR	DRILL	TRIPS	No
14:30	16:00	1.50	4,814	4,814	L/D 12.25" BHA #2 assembly, break bit and lay out same. Graded 12.25 Ulterra CF716 SN: 41498 7-6-JD-A-X-1-JD-PR.	INT	DIR	DRILL	P/U & L/D BHA	No
16:00	18:00	2.00	4,814	4,814	P/U BHA # 3 with new 1.83" motor, scribed same. M/U 12.25" Ulterra CF715 SN: 44654 and power EM tool.	INT	DIR	DRILL	P/U & L/D BHA	No
18:00	21:30	3.50	4,814	4,814	TIH, with no returns.Gained partial returns with bit depth at 2,400', tagged up at 4,562', washed and reamed from 4,562' to 4787'. Attempted to make connection, hole packed off.	INT	DIR	DRILL	TRIPS	No
21:30	02:00	4.50	4,814	4,814	Worked pipe free with rotation, staging up mud pumps to regain circulation. Pumped 2 10 bbl 25ppb LCM sweeps staging mud pumps up to 750 gpm with full returns, circulate bottoms up, dumping 350 bbls of 9.9 ppg mud, observe significant amount of fine sediment at bottoms up across the shale shakers. Make connection and wash down from 4,587' to bottom at 4,814'.	INT	DIR	DRILL	REAMING	Yes
02:00	03:30	1.50	4,814	4,900	Rotate and Slide drill 12 1/4" vertical hole from 4,814' to 4,900'. Dump and dilute as needed to control mud weight.	INT	DIR	DRILL	DRILL W/ MUD	No
03:30	04:00	0.50	4,900	4,900	MWD's computer shutdown and had to reboot to get back and running.	INT	DIR	DRILL	STANDBY	Yes
04:00	06:00	2.00	4,900	5,041	Rotate and Slide drill 12 1/4" vertical hole from 4,900' to 5,041'. Dump and dilute as needed to control mud weight. Pump 10 bbl, 25 ppb LCM sweep as needed.	INT	DIR	DRILL	DRILL W/ MUD	No
					Hauled off Brine: 1200 BBLS					

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS

WELL NO. 288

Report End Date: 1/15/2019
 Report Number: 12
 Rig: UNIT, 407
 Projected Days (days): 15
 Drilling Days: 4
 End MD (ftKB): 6,024
 Depth Progress (ft): 983
 Planned VS (ft): 10,853
 Current VS (ft):
 AFE Number: 1550647

API 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10	Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS
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Report Summary

Well Spud Date 12/8/2018	Total Depth Date	Rig Release Date	Target Formation WFMPA1_141_SH	Proposed TD (ftKB) 18,776
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Status at Report Time
Continue back reaming

Operations Summary OHSE Rotate & Slide drill 12 1/4" vertical hole from 5,041' to 6,024', lost complete returns and hole packed off. Work pipe free, back ream out of hole from 6,024' to 5,591' pumping 15-20 bbl 25 ppb LCM sweeps, re-gain returns at 5,700' with 315 gpm. Drill Window #1: 5' A/B & 5' L/R Last MWD Survey: 5,958' 0.60° Inc 36.10° Azm. 42.7' Below 13.5' Right MW: 9.3 Vis 30 Spud date: 1-11-2019 04:00 hrs Next well: 02HA (Walk)	Planned Operations Wash back to bottom and drill 12 1/4" hole to 7,298' TD
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Start MD (ftKB) 5,041	End MD (ftKB) 6,024	Depth Progress (ft) 983	Drilling Time (hr) 11.25	Avg ROP (ft/hr) 87.4
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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
06:00	17:15	11.25	5,041	6,024	Rotate and slide drill 12 1/4" vertical hole from 5,041' to 6,024'. Lost Returns at 5,155'. Pump 10 - 20 bbl 25 ppb LCM sweeps as needed. Reduce GPM to 475 gpm to aid in stabilizing well and re-gain returns. Stage mud pumps back up to 700 gpm. At 6,024', Cathedral MWD notified Driller he had not logged the last 85' with gamma due to equipment failure.	INT	DIR	DRILL	DRILL W/ MUD	No
17:15	19:30	2.25	6,024	6,024	Hauled off Brine: 600 BBLS Pull up from 6,024' to 5,942'. Decision made to not re-log area in the vertical section. Washed and reamed back down from 5,942' to 6,023'. Make connection, hole packed off while bringing up mud pumps. Work pipe with 30k torque and up to 100k over pull, when string came free. Pump 40 bbl LCM sweep, followed by a 40 bbl diesel sweep. Note, would begin seeing returns when LCM sweeps would be at 4,500' in the annulus.	INT	DIR	DRILL	REAMING	Yes
19:30	03:00	7.50	6,024	6,024	Drill string came free with rotation, pump 40 bbl 25 ppb LCM sweep at 300 gpm with no returns, back ream from 6,024' at 5,700' with 24k-9k ft lbs of torque. Pump 15 bbl 25 ppb LCM sweeps observing intermittent returns.	INT	DIR	DRILL	COND MUD & CIRC	Yes
03:00	03:30	0.50	6,024	6,024	Changed out rotating head.	INT	DIR	DRILL	LUBRICATE RIG	Yes
03:30	04:30	1.00	6,024	6,024	Continue back reaming, pumping 315 gpm from 5,786' to 5700' with intermittent returns. work through tight areas and pump 15 bbls 25 ppb LCM sweeps when needed. Re-gain full returns at 5,700' with 315 gpm.	INT	DIR	DRILL	COND MUD & CIRC	Yes
04:30	06:00	1.50	6,024	6,024	Continue back reaming, pumping 315 gpm from 5,700' to 5,591' with full returns at 315 gpm, work through tight areas and pump 15 bbls 25 ppb LCM sweeps when needed. Note. Generator #3 is kicking off line, Unit Drilling has Electrician en-route to trouble shoot.	INT	DIR	DRILL	COND MUD & CIRC	Yes

SABLE PERMIAN RESOURCES, LLC

UL Daily Drilling Partner Summary

UNIVERSITY LANDS 10 36-01 06HS
WELL NO. 288

Report End Date: 1/16/2019
Report Number: 13
Rig: UNIT, 407
Projected Days (days): 15
Drilling Days: 5
End MD (ftKB): 6,024
Depth Progress (ft): 0
Planned VS (ft): 10,853
Current VS (ft):
AFE Number: 1550647

API 42383404570000	Surface Legal Location UL SURVEY, A-U242, BLOCK 10			Latitude 31.2287060000	Longitude -101.5651940100	Orig KB El... 2,827.00	RKB (ft) 21.00	County REAGAN	State TEXAS	
Report Summary										
Well Spud Date 12/8/2018		Total Depth Date		Rig Release Date		Target Formation WFMPA1_141_SH		Proposed TD (ftKB) 18,776		
Status at Report Time Continue backreaming out of hole at 4,900'.										
Operations Summary 0 HSE Back ream out of hole from 5,591' to 4,900, worked tight hole, utilizing every parameter necessary. No returns. Pumped 15-30 bbl 25 ppb LCM sweeps. Drill Window #1: 5' A/B & 5' L/R Last MWD Survey: 5,958' 0.60° Inc 36.10° Azm. 42.7' Below 13.5' Right MW: 9.1 Vis 30 Spud date: 1-11-2019 04:00 hrs Next well: 02HA (Walk)					Planned Operations Establish circulation, Correct mud properties. Wash back to bottom.					
Start MD (ftKB) 6,024			End MD (ftKB) 6,024		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
06:00	19:00	13.00	6,024	6,024	Continue back reaming, pumping at 200 - 400 gpm from 5,591' to 5,290' with no returns, work through tight areas and pump 15- 30 bbls 25 ppb LCM sweeps when needed. .	INT	DIR	DRILL	COND MUD & CIRC	No
19:00	20:30	1.50	6,024	6,024	Top Drive not operating correctly , intermittent problems with torque . Electricians troubleshoot same . Corrected problem- Encoder wire was not fully plugged in . Pumping at 200 gpm while troubleshooting same .	INT	DIR	DRILL	COND MUD & CIRC	Yes
20:30	06:00	9.50	6,024	6,024	Continue back reaming, pumping at 200 - 400 gpm, 55 rpm , 6- 30K , from 5,290' - 4,900' with no returns, work through tight areas and pump 15- 30 bbls 25 ppb LCM sweeps when needed.	INT	DIR	DRILL	COND MUD & CIRC	No