

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	33
DAYS ON LOCATION:	49
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 24 2016	MD: 18,866	TVD:	FOOTAGE:	MW: 9.3	LB	PTD: 19,149
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	WASH & REAM F17100-18866FT, PUMP SWEEP & CIR HOLE CLEAN, TOOHL, LD CLEAN OUT BHA, RIG UP CSG CREW, MU & RIH WITH 4.5 LINER. WASH & REAM F17100-18866FT, TD RPM=120, TDT=8-15K, STK'S=105, GPM=305 "TAKING 5-40K TO WASH & REAM STRING TO BOTTOM";PUMP 100 BBL 13# SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 6 HR'S.;TOOH.;LD CLEAN OUT BHA, CLEAR & CLEAN RIG FLOOR. "RELEASE NOV SOLID'S CONTROL AT 21.00 ON 5/23/16";MOVE IN & SPOT / RIG UP CSG CREW, HOLD PJSM WITH ALL HANDS.;RUN 189 JT'S OF 11.6#, P-110, DQX PRODUCTION LINER, FLOAT SHOE AT=18864FT, FLOAT COLLAR AT=18862FT, FLOAT JOINT=10.80FT, LANDING COLLAR AT=18850FT. "TOL AT=10504FT"				
	ACTIVITY PLANNED:	FINISH MU & RIH WITH 4.5 LINER, PU & MU LINER HANGER, RUN LINER ON 4 DP.				



DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services				RIG:	Savanna 801		
RPT DATE:	April 7, 2016			SPUD DATE:		CASING	OD	WT	GRD	MD	TVD	
AFE #:	16116	API #:	42-003-47352	DFS:								
LEASE:	Blk 1			REPORT NO:	3							
FIELD:	Emma (Devonian)			DOL:	2							
ELEV:	3,128	RKB:	28	LAST BOP TEST:								
MD:		TVD:		CSGHD:								
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:								
24 HR FTG:		HRS DRLG:										

24 HOUR SUMMARY:	CLEAR & LEVEL DIRT FOR WELL PAD, FIND BURRIED LINE, CLOCK LOCATION 180 DEGREES.
ACTIVITY PLANNED:	CONTINUE BUILDING WELL PAD.

[illegible]

PRESSURE PARAMETERS						REDUCED PUMP RATES			
GAS SHOWS	BG:		MAX:		PORE PRESSURE:	PUMP	SPM	PRESS	DEPTH
	CONN:		CL:			#1			
	TRIP:		LITHOLOGY:			#2			

[illegible][illegible]

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP	
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[illegible]

BHA							
DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	

[illegible]

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand:		DRILL H2O (gal) Rcvd/Used/On Hand:	
	MUD DIESEL (gal) Rcvd/Used/On Hand:			

[illegible]

TOTAL HRS	12.0				
WEATHER					
GEN. CONDITIONS:		WIND SPEED:		WIND DIRECTION:	TEMP:
COMMENTS:					

COST DATA							
AFE AMT:	\$4,336,500	Daily Drlg Cost:		Intangibles Cum:	\$136,500	Cum Well Cost:	\$136,500
AFE TWC:	\$6,909,700	Cum Drlg Cost:	\$136,500	Tangibles Cum:			



DRILLING REPORT

[illegible]



DRILLING REPORT

[illegible]



DRILLING REPORT

[illegible]



DRILLING REPORT

[illegible]



DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services				RIG:	Savanna 801	
RPT DATE:	April 13, 2016			SPUD DATE:		CASING	OD	WT	GRD	MD	TVD
AFE #:	16116	API #:	42-003-47352	DFS:							
LEASE:	Blk 1			REPORT NO:	9						
FIELD:	Emma (Devonian)			DOL:	8						
ELEV:	3,128	RKB:	28	LAST BOP TEST:							
MD:		TVD:		CSGHD:							
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:							
24 HR FTG:		HRS DRLG:									

24 HOUR SUMMARY:	HAUL IN, SPREAD & PACK CALICHE ON LOCATION, LINE RESERVE & CUTTING PIT'S, FENCE RESERVE PIT, HAUL WATER TO DIRTY SIDE OF RESERVE PIT.
ACTIVITY PLANNED:	

[illegible][illegible]

BIT DATA										DAILY						CUM																	
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP									
BIT NO.				INNER				OUTER				DULL				LOC				SEAL				GAUGE				OTHER				RP	

[illegible]

BHA							
DESCRIPTION:							
LENGTH		BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.		P.U. WT.		S.O. WT.		TORQUE	

[illegible]

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand:	DRILL H2O (gal) Rcvd/Used/On Hand:	
	MUD DIESEL (gal) Rcvd/Used/On Hand:		

[illegible]

WEATHER							
GEN. CONDITIONS:		WIND SPEED:		WIND DIRECTION:		TEMP:	

COST DATA							
AFE AMT:	\$4,336,500	Daily Drlg Cost:	\$2,000	Intangibles Cum:	\$154,500	Cum Well Cost:	\$154,500
AFE TWC:	\$6,909,700	Cum Drlg Cost:	\$154,500	Tangibles Cum:			



DRILLING REPORT

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DRILLING REPORT

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DRILLING REPORT

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DRILLING REPORT

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DRILLING REPORT

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DRILLING REPORT

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DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services				RIG:	Savanna 801	
RPT DATE:	April 22, 2016			SPUD DATE:	4/21/16	CASING	OD	WT	GRD	MD	TVD
AFE #:	16116	API #:	42-003-47352	DFS:	1						
LEASE:	Blk 1			REPORT NO:	18						
FIELD:	Emma (Devonian)			DOL:	17						
ELEV:	3,128	RKB:	28	LAST BOP TEST:							
MD:	1,650	TVD:	1,650	CSGHD:							
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:	97.06						
24 HR FTG:	1,650	HRS DRLG:	17.00								

24 HOUR SUMMARY:	TEST FLOWDRIFT AND MOTOR,SPUD AND DRILL 17.5"SURFACE HOLE
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ACTIVITY PLANNED:	DRILL 17.5" SURFACE HOLE, CIRCULATE TOOL, LD BHA #1
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[illegible]

PRESSURE PARAMETERS						REDUCED PUMP RATES			
GAS SHOWS	BG:		MAX:		PORE PRESSURE:	PUMP	SPM	PRESS	DEPTH
	CONN:		CL:			#1			
	TRIP:		LITHOLOGY:			#2			

[illegible][illegible]

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP
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HYDRAULICS DATA

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	6.000	12.000	70	1200	293	4.186	95					
2	HHF	1600	6.000	12.000	70	1200	293	4.186	95					

BHA

DESCRIPTION:	BHA #1
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LENGTH	1,184.38	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	135,000	P.U. WT.	145,000	S.O. WT.	120,000	TORQUE	12,000

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
1,225	0.60	132.00	1,225					
1,317	0.80	135.00	1,317					
1,406	0.40	136.00	1,406					
1,598	0.30	179.00	1,598					

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand: /1375/8074	DRILL H2O (gal) Rcvd/Used/On Hand:	
	MUD DIESEL (gal) Rcvd/Used/On Hand: //7877		

FROM	TO	HRS	CODE	OPERATIONS
06:00	07:30	1.5	Other	FILL CONDUCTOR,TEST MOTOR AND FLOW SURVEY TOOLS NOTIFIED TRRC OF SPUD,CASING & CEMENT SPOKE WITH SHANNON OPERATOR #6
07:30	00:30	17.0	Drilling	BREAK CIRCULATION TAG UP @100'(SPUD @ 7:30 4/21/2016) DRILL 17 1/2 HOLE F100'- 1650', WOB=5-15K, STK'S=140, GPM=585, DH RPM=90, TD RPM=50-80, TOTAL RPM=140-180, TDT=10000-12000, DPP=600-1200. TD 17 1/2" SURFACE HOLE 00:30 4/22/2016
00:30	02:30	2.0	Cond Mud & Circ	PUMP 100 BBL 100 VIS SWEEP,ROTATE & CIRCULATE HOLE CLEAN
02:30	03:00	0.5	Lubricate Rig	RIG SERVICE
03:00	06:00	3.0	Trips	TOOH,LD 17 1/4" STABILIZERS,FLOWDRIFT,MOTOR & BIT
TOTAL HRS		24.0		

WEATHER

GEN. CONDITIONS:	CLEAR	WIND SPEED:	5	WIND DIRECTION:	ESE	TEMP:	54
COMMENTS:							

COST DATA

AFE AMT: \$4,336,500	Daily Drlg Cost: \$37,899	Intangibles Cum: \$489,566	Cum Well Cost: \$489,566
AFE TWC: \$6,909,700	Cum Drlg Cost: \$489,566	Tangibles Cum:	
DRILLING SUPERVISOR: Roy Kimbel		RIG PHONE: 432-653-0403	



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801															
RPT DATE: April 23, 2016						SPUD DATE: 4/21/16			CASING			OD	WT	GRD	MD	TVD											
AFE #: 16116		API #: 42-003-47352		DFS: 2																							
LEASE: Blk 1						REPORT NO: 19																					
FIELD: Emma (Devonian)						DOL: 18																					
ELEV: 3,128		RKB: 28		LAST BOP TEST:																							
MD:		TVD:		CSGHD:																							
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP:																							
24 HR FTG:		HRS DRLG:																									
24 HOUR SUMMARY: LD BHA #1,RU CASING CREW,RUN 26 JTS 13 3/8" CASING,TAG 1100',LD CASING,TIH TO REAM SURFACE HOLE																											
ACTIVITY PLANNED: TIH TO REAM SURFACE HOLE,SHORT TRIP,TOOH,RUN 13 3/8" CASING,& CEMENT THE SAME																											
DRILLING FLUID				Daily Mud Cost:		\$1,681			Cum Mud Cost:		\$12,730				SHOE TEST:												
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP									
16:00	8.3																										
PRESSURE PARAMETERS										REDUCED PUMP RATES																	
GAS SHOWS		BG:		MAX:		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH											
		CONN:		CL:						#1																	
		TRIP:		LITHOLOGY:						#2																	
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS													
BIT DATA										DAILY							CUM										
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP			
1		17.50		BAKER HUGHES		HC605S		7036976		10X14		1,650		1,650						105		35		91.18			
BIT NO.	1	INNER	1	OUTER	1	DULL	NO	LOC	A	SEAL	NONE	GAUGE	X	OTHER	NO	RP	TD										
HYDRAULICS DATA																											
PUMP	MAKE		MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP		PUMP HHP									
1	HHF		1600		6.000		12.000	70	1200	293	4.186	95															
2	HHF		1600		6.000		12.000	70	1200	293	4.186	95															
BHA																											
DESCRIPTION:		BHA #1																									
LENGTH	1,184.38			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS											
ROT. WT.	135,000			P.U. WT.			145,000			S.O. WT.			120,000			TORQUE			12,000								
SURVEY DATA																											
MD		ANGLE			AZIMUTH			TVD			N/S	COORDINATES			E/W	V. SECTION			DLS								
CONSUMABLES														RIG DIESEL (gal) Rvcd/Used/On Hand: 2292/860/9506								DRILL H2O (gal) Rcvd/Used/On Hand:					
														MUD DIESEL (gal) Rvcd/Used/On Hand: 4711//12588													
FROM	TO	HRS	CODE		OPERATIONS																						
06:00	08:00	2.0	Other		LAY DOWN 17 1/4"STABILIZERS, 8" DC'S, FLOWDRIFT,FLUSH & DRAIN MOTOR,LAY DOWN BIT																						
08:00	09:00	1.0	Other		HOLD PJSM,CLEN AND CLEAR RIG FLOOOOR & RIG UP CASING CREW																						
09:00	13:00	4.0	Run Csg & Cement		RUN 26 JTS 13 3/8" 68# J-55 BTC ,TIGHT SPOT @ 1060'																						
13:00	20:30	7.5	Reaming		WASH AND REAM FROM 1060' TO 1100',(COULD NOT GET PAST 1100')																						
20:30	02:00	5.5	Run Csg & Cement		LAY DOWN 26 JTS 13 3/8" 68# J-55 BTC(COULD NOT BREAK FLOAT COLLAR WAIT ON WELDER TO CUT JOINT OF CASING & LD SHOE TRACK)																						
02:00	03:30	1.5	Trips		MAKE UP BIT,MOTOR, & TIH TAG @ 925'																						
03:30	06:00	2.5	Reaming		WASH AND REAM FROM 925' TO 1150'																						



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services					RIG: Savanna 801									
RPT DATE: April 24, 2016					SPUD DATE: 4/21/16			CASING			OD	WT	GRD	MD	TVD				
AFE #: 16116		API #: 42-003-47352			DFS: 3														
LEASE: Blk 1					REPORT NO: 20														
FIELD: Emma (Devonian)					DOL: 19														
ELEV: 3,128		RKB: 28			LAST BOP TEST:														
MD:		TVD:			CSGHD:														
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP:														
24 HR FTG:		HRS DRLG:																	
24 HOUR SUMMARY: REAM TIGHT SPOTS ON SURFACE HOLE,SHORT TRIP,REAM TO BOTTOM																			
ACTIVITY PLANNED: TOOH,RUN 13 3/8" CASING,CENT SAME, W.O.C.																			
DRILLING FLUID			Daily Mud Cost:		\$3,313			Cum Mud Cost:		\$16,043				SHOE TEST:					
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP	
16:00	8.5																		
PRESSURE PARAMETERS										REDUCED PUMP RATES									
GAS SHOWS	BG:		MAX:				PORE PRESSURE:			PUMP		SPM		PRESS		DEPTH			
	CONN:				CL:					#1									
	TRIP:				LITHOLOGY:						#2								
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS					
BIT DATA										DAILY							CUM		
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP		
1	17.50		BAKER HUGHES		HC605S		7036976		10X14		1,650	1,650			105	35	91.18		
BIT NO.	1	INNER	1	OUTER	1	DULL	NO	LOC	A	SEAL	NONE	GAUGE	X	OTHER	NO	RP	TD		
HYDRAULICS DATA																			
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP			
1	HHF		1600		6.000	12.000	60	700	250	4.186	95								
2	HHF		1600		6.000	12.000	60	700	250	4.186	95								
BHA																			
DESCRIPTION:		BHA #1																	
LENGTH	1,184.38			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS			
ROT. WT.	135,000			P.U. WT.			145,000			S.O. WT.			120,000			TORQUE		12,000	
SURVEY DATA																			
MD		ANGLE			AZIMUTH			TVD			N/S	COORDINATES		E/W	V. SECTION		DLS		
CONSUMABLES			RIG DIESEL (gal) Rvcd/Used/On Hand: /630/8876							DRILL H2O (gal) Rvcd/Used/On Hand:									
			MUD DIESEL (gal) Rvcd/Used/On Hand: //12588																
FROM	TO	HRS	CODE		OPERATIONS														
06:00	12:30	6.5	Reaming		WASH AND REAM FROM 1120' TO 1650' WITH 500 GPM,95RPM														
12:30	13:30	1.0	Cond Mud & Circ		CIRCULATE OUT 40 BBL HIGH VIS SWEEEP														
13:30	15:00	1.5	Trips		SHORT TRIP FROM 1650 UP TO 780'(TAG UP @ 1500')														
15:00	19:30	4.5	Reaming		WASH AND REAM FROM 1500' TO 1650' WITH 500 GPM,95RPM														
19:30	20:30	1.0	Cond Mud & Circ		CIRCULATE OUT 40 BBL HIGH VIS SWEEEP														
20:30	00:30	4.0	Trips		SHORT TRIP FROM 1650 UP TO 780'(REAM 1385' TO 1465' & 1595' TO 1650')														
00:30	02:30	2.0	Cond Mud & Circ		CIRCULATE OUT 80 BBL HIGH VIS SWEEEP														
02:30	06:00	3.5	Trips		TOOH,STAND BACK BHA,BREAK OFF BIT														



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services					RIG: Savanna 801																			
RPT DATE: April 25, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352			DFS: 4					Surface			13-3/8		68	J-55	1,630	1,630											
LEASE: Blk 1					REPORT NO: 21																								
FIELD: Emma (Devonian)					DOL: 20																								
ELEV: 3,128		RKB: 28			LAST BOP TEST:																								
MD:		TVD:			CSGHD:																								
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP:																								
24 HR FTG:		HRS DRLG:																											
24 HOUR SUMMARY: RUN 13.375" CASING,CEMENT THE SAME,WELD ON WELLHEAD ,PRESSURE TEST,NIPPLE UP BOP'S																													
ACTIVITY PLANNED: PRESSURE TEST BOP'S,PICK UP BHA #2 TIH,DRILL OUT SHOE TRACK,DRILL 12.25"SECTION OF WELL																													
DRILLING FLUID					Daily Mud Cost: \$3,009					Cum Mud Cost: \$19,052					SHOE TEST:														
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
10:00	8.5	34.0																											
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG:		MAX:		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH												
		CONN:		CL:							#1																		
		TRIP:		LITHOLOGY:							#2																		
SHOW DEPTHS			ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS														
BIT DATA															DAILY			CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP								
												1,650		1,650															
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		6.000		12.000		60		700		250		4.186		95											
2		HHF		1600		6.000		12.000		60		700		250		4.186		95											
BHA																													
DESCRIPTION:		BHA #1																											
LENGTH		1,184.38		BHA WT. AIR								BHA WT. MUD								HRS. ON JARS									
ROT. WT.		135,000		P.U. WT.				145,000				S.O. WT.				120,000				TORQUE		12,000							
SURVEY DATA																													
MD		ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION		DLS					
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: /860/8016										DRILL H2O (gal) Rvcd/Used/On Hand:															
				MUD DIESEL (gal) Rvcd/Used/On Hand: //12588																									
FROM	TO	HRS	CODE			OPERATIONS																							
06:00	07:00	1.0	Other			HOLD PJSM RIG UP CASING CREW																							
07:00	13:30	6.5	Run Csg & Cement			RUN 37 JT'S OF 13 3/8, 68#, J-55, BTC SURFACE CSG, FLOAT SHOE AT=1630', FLOAT JOINT=44.68', FLOAT COLLAR AT=1582', 10 TOTAL CENTRALIZERS F JOINT 1-26 WASH DOWN CASING FROM 1550' TO 1650'																							
13:30	14:30	1.0	Cond Mud & Circ			CIRCULATE BOTTOMS UP,HOLD PJSM,RD CASING CREW & RU CEMENT CEMENTERS																							
14:30	17:00	2.5	Run Csg & Cement			HOLD PJSM PRESSURE TEST PUMP & LINES TO 2000 PSI, PUMP 20 BBL'S OF FRESH WATER AHEAD, START & FINISH 1135 SKS OR 385 BBL'S OF 13#, 1.90 YIELD LEAD CEMENT, START & FINISH 325 SKS OR 97 BBL'S OF 13.9#, 1.67 YIELD TAIL CEMENT, SHUT DOWN & DROP PLUG, DISPLACE SAME WITH 236 BBL'S OF FRESH WATER, BUMP PLUG WITH 440 PSI, WALK PRESSURE UP TO 800 PSI, HOLD SAME FOR 2 MIN, BLEED BACK 2 BBL, PLUG DOWN & HOLDING AT 17:00 ON 4/24/16. 56 BBL 165 SACKS CEMENT BACK TO SURFACE "LEAD=TRANS TEX LITE C, 2#/SK PHENOSEAL, 2#/SK GILSONITE, 1/4# CF, 4/10% CFL-1" "TAIL=TRANS TEX LITE C, 2#/SK PHENOSEAL, 2#/SK GILSONITE, 1/4# CF, 4/10% CFL-1"																							
17:00	21:00	4.0	Wait on Cement			W.O.C. RIG DOWN CEMENTERS,FLUSH CONDUCTOR & FLOWLINE,TAKE OFF TURBUCKLES IN PREPERATION TO CUT CONDUCTOR AND WELD ON WELLHEAD																							
21:00	01:30	4.5	Other			CUT OFF CONDUCTOR & CASING,DRESS STICK UP,WELD WELLHEAD ON AT GROUND LEVEL,PRESSURE TEST WELD TO 1500 PSI FOR 15MIN. GOOD TEST																							
01:30	06:00	4.5	Nipple Up B.O.P.			HOLD PJSM WHITH MONAHANS NIPPLE UP AND RIG CREW & NIPPLE UP 13 5/8" BOP'S,																							



DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services				RIG:	Savanna 801	
RPT DATE:	April 26, 2016			SPUD DATE:	4/21/16	CASING	OD	WT	GRD	MD	TVD
AFE #:	16116	API #:	42-003-47352	DFS:	5	Surface	13-3/8	68	J-55	1,630	1,630
LEASE:	Blk 1			REPORT NO:	22						
FIELD:	Emma (Devonian)			DOL:	21						
ELEV:	3,128	RKB:	28	LAST BOP TEST:	4/25/16						
MD:	1,853	TVD:	1,853	CSGHD:							
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:	81.20						
24 HR FTG:	203	HRS DRLG:	2.50								

24 HOUR SUMMARY: NIPPLE UP BOP'S,PRESSURE TEST BOP'S,PICK UP BHA #2 TIH,DRILL OUT SHOE TRACK,DRILL 12.25"SECTION OF WELL

ACTIVITY PLANNED:	CONTINUE TO DRILL 12.25" SECTION OF WELL
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[illegible]

PRESSURE PARAMETERS							REDUCED PUMP RATES			
GAS SHOWS	BG:		MAX:			PORE PRESSURE:	PUMP	SPM	PRESS	DEPTH
	CONN:			CL:			#1			
	TRIP:			LITHOLOGY:			#2			

[illegible][illegible]

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP	
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HYDRAULICS DATA

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	6.000	12.000	75	1300	314	4.186	95					
2	HHF	1600	6.000	12.000	75	1300	314	4.186	95					

BHA

DESCRIPTION:	BHA #2
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LENGTH	1,181.65	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	140,000	P.U. WT.	141,000	S.O. WT.	139,000	TORQUE	12,000

SURVEY DATA

[illegible]

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand: /1317/6699	DRILL H2O (gal) Rcvd/Used/On Hand:
	MUD DIESEL (gal) Rcvd/Used/On Hand: //12588	

FROM	TO	HRS	CODE	OPERATIONS
06:00	10:00	4.0	Nipple Up B.O.P.	NIPPLE UP 13 5/8" BOP'S,
10:00	15:30	5.5	Test B.O.P.	MOVE IN & SPOT / RIG UP TESTER, HOLD PJSM WITH SAME. TEST UPPER & LOWER PIPE RAMS, INSIDE & OUTSIDE KILL LINES, INSIDE & OUTSIDE CHOKE VALVES, KILL LINE CHECK VALVE, HCR VALVE, ALL 3 MAIN CHOKE VALVES, HYD CHOKE, UPPER & LOWER KELLY VALVES TO 250 PSI FOR A 10 MIN LOW TEST & 5000 PSI FOR A 10 MIN HIGH TEST, TEST ANNULAR TO 250 PSI FOR A 10 MIN LOW TEST & 3500 PSI FOR 10 MIN HIGH TEST.RIG DOWN TESTER
15:30	16:30	1.0	Other	INSTALL WEAR BUSHING,INSTALL TRIP NIPPLE,CENTER BOP'S,& STRAP BHA #2
16:30	17:30	1.0	Other	PICK UP MOTOR,FLOWDRIFT, & BIT
17:30	18:00	0.5	Lubricate Rig	RIG SERVICE
18:00	23:30	5.5	Other	MODIFY AND HOOK UP FLOWLINE,REPLACE 4" VALVE ON MUD PUMP
23:30	02:00	2.5	Trips	MAKE UP BHA #2,TEST FLOW DRIFT TIH TO 1540'
02:00	02:30	0.5	Test B.O.P.	FILL PIPE AND HOLE,TEST CASING TO 1500 PSI, GOOD TEST
02:30	03:30	1.0	Drill Cement & Tools	DRILL OUT CEMENT, FLOAT COLLAR, AND SHOE
03:30	06:00	2.5	Drilling	DRILL & SURVEY 12 1/4 HOLE F/1650'- 1853' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=3000-5000, DPP=1000-1300.
TOTAL HRS		24.0		

WEATHER

GEN. CONDITIONS:	CLEAR	WIND SPEED:	6	WIND DIRECTION:	SSW	TEMP:	61
COMMENTS:							

COST DATA

AFE AMT:	\$4,336,500	Daily Drlg Cost:	\$61,442	Intangibles Cum:	\$713,563	Cum Well Cost:	\$789,663
AFE TWC:	\$6,909,700	Cum Drlg Cost:	\$789,663	Tangibles Cum:	\$76,100		

DRILLING SUPERVISOR:	Roy Kimbel	RIG PHONE:	432-653-0403
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WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services										RIG: Savanna 801				
RPT DATE: April 27, 2016				SPUD DATE: 4/21/16				CASING				OD	WT	GRD	MD	TVD		
AFE #: 16116		API #: 42-003-47352		DFS: 6				Surface				13-3/8	68	J-55	1,630	1,630		
LEASE: Blk 1				REPORT NO: 23														
FIELD: Emma (Devonian)				DOL: 22														
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16														
MD: 4,137		TVD: 4,137		CSGHD:														
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 130.51														
24 HR FTG: 2,284		HRS DRLG: 17.50																
24 HOUR SUMMARY: DRILL12.25"SECTION OF WELL,WORK ON TOP DRIVE																		
ACTIVITY PLANNED: CONTINUE TO DRILL12.25"SECTION OF WELL																		
DRILLING FLUID				Daily Mud Cost: \$1,490				Cum Mud Cost: \$21,591				SHOE TEST:						
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)		PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP	
16:30	9.5	28.0																
PRESSURE PARAMETERS										REDUCED PUMP RATES								
GAS SHOWS		BG:		MAX:		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH		
		CONN:		CL:						#1								
		TRIP:		LITHOLOGY:				#2										
SHOW DEPTHS		ROP Before/During After				GAS			MUD WT.			CHLORIDES			REMARKS			
BIT DATA										DAILY						CUM		
NO.	SIZE	MAKE		TYPE		SER NO.		NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP		
2	12.25	BAKER HUGHES		TD607X		7159129		7 X 14S		1,853	4,137	2,284	17.50	113	30	124.35		
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE			OTHER		RP	
HYDRAULICS DATA																		
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP		PUMP HHP	
1	HHF		1600		6.000	12.000	75	1600	314	4.186	95							
2	HHF		1600		6.000	12.000	75	1600	314	4.186	95							
BHA																		
DESCRIPTION:		BHA #2																
LENGTH		1,181.65		BHA WT. AIR						BHA WT. MUD						HRS. ON JARS		
ROT. WT.		185,000		P.U. WT.			189,000			S.O. WT.			179,000			TORQUE		12,000
SURVEY DATA																		
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES			E/W	V. SECTION		DLS	
3,600		1.20			48.00			3,600										
3,779		1.00			65.00			3,779										
3,868		1.10			65.00			3,868										
4,048		101.00			53.00			4,048										
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: /1603/5096						DRILL H2O (gal) Rvcd/Used/On Hand:								
				MUD DIESEL (gal) Rvcd/Used/On Hand: //12588														
FROM	TO	HRS	CODE		OPERATIONS													
06:00	12:00	6.0	Drilling		DRILL & SURVEY 12 1/4 HOLE F/1853'- 2487' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=3000-5000, DPP=1000-1300.													
12:00	18:30	6.5	Repair Rig		TOP DRIVE TORQEING UP WITHOUT STRING WEIGHT TRIP OUT TO SHOE,TROUBLE SHOOT TOP DRIVE WITH OMRON & TESCO													
18:30	06:00	11.5	Drilling		DRILL & SURVEY 12 1/4 HOLE F/ 2487'- 4137' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=3000-5000, DPP=1000-1650													



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801								
RPT DATE: April 28, 2016						SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD			
AFE #: 16116		API #: 42-003-47352				DFS: 7				Surface			13-3/8		68	J-55	1,630	1,630		
LEASE: Blk 1						REPORT NO: 24														
FIELD: Emma (Devonian)						DOL: 23														
ELEV: 3,128		RKB: 28				LAST BOP TEST: 4/25/16														
MD: 5,994		TVD: 5,994				CSGHD:														
PROP MD: 19,149		PROP TVD: 11,031				DAILY ROP: 79.02														
24 HR FTG: 1.857		HRS DRLG: 23.50																		
24 HOUR SUMMARY: DRILL12.25"SECTION OF WELL																				
ACTIVITY PLANNED: CONTINUE TO DRILL12.25"SECTION OF WELL																				
DRILLING FLUID				Daily Mud Cost:			\$1,058			Cum Mud Cost:			\$22,649				SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP		
16:00	9.7	28.0																		
PRESSURE PARAMETERS										REDUCED PUMP RATES										
GAS SHOWS		BG:		MAX:		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH				
		CONN:		CL:						#1		40		190		5,570				
		TRIP:		LITHOLOGY:				#2		40		190		5,570						
SHOW DEPTHS		ROP Before/During After				GAS			MUD WT.			CHLORIDES				REMARKS				
BIT DATA										DAILY						CUM				
NO.	SIZE	MAKE		TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP					
2	12.25	BAKER HUGHES		TD607X		7159129	7 X 14S		4,137	5,994	1,857	23.50	113	30	99.86					
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP				
HYDRAULICS DATA																				
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP				
1	HHF		1600		6.000	12.000	75	1600	314	4.186	95									
2	HHF		1600		6.000	12.000	75	1600	314	4.186	95									
BHA																				
DESCRIPTION:		BHA #2																		
LENGTH	1,181.65			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS				
ROT. WT.	212,000			P.U. WT.			217,000			S.O. WT.			206,000			TORQUE	12,000			
SURVEY DATA																				
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES		E/W	V. SECTION		DLS				
5,480		0.10			71.00			5,480												
5,659		0.10			175.00			5,659												
5,830		0.10			282.00			5,830												
5,928		0.40			222.00			5,928												
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: /2061/3035										DRILL H2O (gal) Rvcd/Used/On Hand:								
		MUD DIESEL (gal) Rvcd/Used/On Hand: //12588																		
FROM	TO	HRS	CODE		OPERATIONS															
06:00	12:00	6.0	Drilling		DRILL & SURVEY 12 1/4 HOLE F/ 4137' - 4585' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=11000-12000, DPP=1000-1650															
12:00	12:30	0.5	Lubricate Rig		RIG SERVICE															
12:30	06:00	17.5	Drilling		DRILL & SURVEY 12 1/4 HOLE F/ 4585'- 5994' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=11000-12000, DPP=1000-1650															



DRILLING REPORT

WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services										RIG: Savanna 801					
RPT DATE: April 29, 2016				SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD				
AFE #: 16116		API #: 42-003-47352		DFS: 8				Surface			13-3/8		68	J-55	1,630	1,630			
LEASE: Blk 1				REPORT NO: 25															
FIELD: Emma (Devonian)				DOL: 24															
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16															
MD: 6,800		TVD: 6,800		CSGHD:															
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 62.00															
24 HR FTG: 806		HRS DRLG: 13.00																	
24 HOUR SUMMARY: TOO H FOR BIT,XO BIT, TIH, DRILL 12.25" SECTION OF WELL																			
ACTIVITY PLANNED: CONTINUE TO DRILL DRILL 12.25" SECTION OF WELL																			
DRILLING FLUID			Daily Mud Cost:			\$2,091			Cum Mud Cost:			\$24,740				SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP	
16:00	9.8	32.0																	
PRESSURE PARAMETERS										REDUCED PUMP RATES									
GAS SHOWS	BG:	MAX:			PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH			
	CONN:	CL:								#1		40		250		6,397			
	TRIP:	LITHOLOGY:								#2		40		260		6,397			
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES				REMARKS				
BIT DATA										DAILY							CUM		
NO.	SIZE	MAKE		TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP				
3	12.25	DRILFORMANCE		CF616X2		42980	7 X 14S		5,994	6,800	806	13.00	113	30	62.00				
2	12.25	BAKER HUGHES		TD607X		7159129	7 X 14S		4,137	5,994	1,857		113	30	142.55				
BIT NO.	2	INNER	8	OUTER	8	DULL	DBR	LOC	A	SEAL	X	GAUGE	X	OTHER	CT	RP	PR		
HYDRAULICS DATA																			
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP			
1	HHF		1600		6.000	12.000	75	1600	314	4.186	95								
2	HHF		1600		6.000	12.000	75	1600	314	4.186	95								
BHA																			
DESCRIPTION:		BHA #3																	
LENGTH	1,181.65		BHA WT. AIR						BHA WT. MUD						HRS. ON JARS				
ROT. WT.	212,000		P.U. WT.			217,000			S.O. WT.			206,000			TORQUE		12,000		
SURVEY DATA																			
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES			E/W	V. SECTION		DLS		
6,265		0.30			211.00			6,235											
6,425		0.20			211.00			6,425											
6,644		1.90			224.00			6,644											
6,734		2.60			229.00			6,734											
CONSUMABLES			RIG DIESEL (gal) Rvcd/Used/On Hand: 7200/1588/8647						DRILL H2O (gal) Rvcd/Used/On Hand:										
			MUD DIESEL (gal) Rvcd/Used/On Hand: //12588																
FROM	TO	HRS	CODE		OPERATIONS														
06:00	07:00	1.0	Cond Mud & Circ		CIRCULATE BOTTOMS UP FOR BIT TRIP														
07:00	11:30	4.5	Trips		TOOH TO MOTOR,														
11:30	12:00	0.5	Lubricate Rig		RIG SERVICE														
12:00	17:00	5.0	Trips		XO BIT TIH,PRECAUTIONARY REAM FROM 5928' TO 5994'														
17:00	06:00	13.0	Drilling		DRILL & SURVEY 12 1/4 HOLE F/ 5994'- 6800' , WOB=10-30K, STK'S=150, GPM=628, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=11000-12000, DPP=1000-1650 LOST PARTIAL RETURNS AT 6425'														



DRILLING REPORT

WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services								RIG: Savanna 801							
RPT DATE: April 30, 2016				SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD				
AFE #: 16116		API #: 42-003-47352		DFS: 9				Surface			13-3/8	68	J-55	1,630	1,630				
LEASE: Blk 1				REPORT NO: 26															
FIELD: Emma (Devonian)				DOL: 25															
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16															
MD: 7,070		TVD: 7,070		CSGHD:															
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 45.00															
24 HR FTG: 270		HRS DRLG: 6.00																	
24 HOUR SUMMARY: DRILL TO TD 12.25" HOLE,TOOH,LD BHA #2,RU CASING CREW,RUN 9.625" CASING																			
ACTIVITY PLANNED: RUN 9.625" CASING,CEMENT SAME,TIH DRILL OUT FLOAT EQUIPMENT,DRILL 8.75" SECTION OF HOLE																			
DRILLING FLUID				Daily Mud Cost: \$4,102				Cum Mud Cost: \$28,842				SHOE TEST:							
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)		PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP		
16:00	9.8	32.0		8.0															
PRESSURE PARAMETERS										REDUCED PUMP RATES									
GAS SHOWS		BG:		MAX:		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH			
		CONN:		CL:						#1		40		250		6,397			
		TRIP:		LITHOLOGY:						#2		40		260		6,397			
SHOW DEPTHS		ROP Before/During After				GAS		MUD WT.		CHLORIDES				REMARKS					
BIT DATA														DAILY				CUM	
NO.	SIZE	MAKE		TYPE	SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP					
3	12.25	DRILFORMANCE		CF616X2	42980	7 X 14S		6,800	7,070	270	6.00	113	30	56.63					
BIT NO.	3	INNER	1	OUTER	1	DULL	CT	LOC	G	SEAL	X	GAUGE	X	OTHER	NO	RP	TD		
HYDRAULICS DATA																			
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP		PUMP HHP		
1	HHF		1600		6.000	12.000	75	1600	314	4.186	95								
2	HHF		1600		6.000	12.000	75	1600	314	4.186	95								
BHA																			
DESCRIPTION:		BHA #3																	
LENGTH		1,181.65		BHA WT. AIR					BHA WT. MUD					HRS. ON JARS					
ROT. WT.		212,000		P.U. WT.		217,000			S.O. WT.		206,000			TORQUE		12,000			
SURVEY DATA																			
MD		ANGLE		AZIMUTH		TVD		N/S	COORDINATES			E/W	V. SECTION		DLS				
6,774		3.50		221.00		6,774													
6,873		2.10		260.00		6,873													
6,962		1.60		288.00		6,962													
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: //8647				DRILL H2O (gal) Rvcd/Used/On Hand:											
				MUD DIESEL (gal) Rvcd/Used/On Hand: 14400/0/26988															
FROM	TO	HRS	CODE		OPERATIONS														
06:00	12:00	6.0	Drilling		DRILL & SURVEY 12 1/4 HOLE F/6800'-7070' , WOB=10-30K, STK'S=120, GPM=500, DH RPM=113, TD RPM=70-90, TOTAL RPM=175-203, TDT=11000-12000, DPP=1000-1650 LOST PARTIAL RETURNS AT 6425'/LOST ALL RETURNS AT 6823' TD 12.25" SECTION OF WELL @ 7070' 12:00/4/29/16 NOTIFIED TRRC OF CASING AND CEMENT JOB SPOKE WITH KAYLEE														
12:00	17:00	5.0	Trips		SPOT 65BBL 35PPB LCM PILL ON BOTTOM,TOOH LAY DOWN BHA #3														
17:00	17:30	0.5	Other		CLEAN OFF RIG FLOOR,PULL WEAR BUSHING														
17:30	18:00	0.5	Rig Up & Tear Down		HOLD PJSM WITH RIG AND CASING CREW/RIG UP TO RUN CASING														
18:00	06:00	12.0	Run Csg & Cement																



DRILLING REPORT

WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services								RIG: Savanna 801									
RPT DATE: May 1, 2016				SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD						
AFE #: 16116		API #: 42-003-47352		DFS: 10				Surface			13-3/8	68	J-55	1,630	1,630						
LEASE: Blk 1				REPORT NO: 27				Intermediate			9-5/8	40	T-80,J-55	7,050	7,050						
FIELD: Emma (Devonian)				DOL: 26																	
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																	
MD:		TVD:		CSGHD:																	
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP:																	
24 HR FTG:		HRS DRLG:																			
24 HOUR SUMMARY: CEMENT 9.625" CASING, LAND MANDRIL, PU DIRECTIONAL TOOLS, TIH, DRILL OUT FLOAT EQUIPMENT , TEST CASING, DRILL 8.75" SECTION OF WELL																					
ACTIVITY PLANNED: CONTINUE TO DRILL 8.75" SECTION OF WELL TO KOP																					
DRILLING FLUID				Daily Mud Cost:				Cum Mud Cost:				\$28,842				SHOE TEST:					
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
16:00	9.8	32.0		8.0																	
PRESSURE PARAMETERS										REDUCED PUMP RATES											
GAS SHOWS		BG:	MAX:		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH					
		CONN:		CL:						#1		40		250		6,397					
		TRIP:		LITHOLOGY:						#2		40		260		6,397					
SHOW DEPTHS		ROP Before/ During After			GAS			MUD WT.			CHLORIDES				REMARKS						
BIT DATA										DAILY										CUM	
NO.	SIZE	MAKE		TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP						
4	8.75	NOV		SKH716M		A202446	7 X 13S		7,050	7,050											
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP					
HYDRAULICS DATA																					
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP					
1	HHF		1600		6.000	12.000	75	1600	314	4.186	95										
2	HHF		1600		6.000	12.000	75	1600	314	4.186	95										
BHA																					
DESCRIPTION:		NOV BHA #1, WELL BHA #4																			
LENGTH	1,091.66		BHA WT. AIR				BHA WT. MUD				HRS. ON JARS										
ROT. WT.	128.000		P.U. WT.				S.O. WT.				TORQUE										
SURVEY DATA																					
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES		E/W	V. SECTION		DLS					
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: //459/6814						DRILL H2O (gal) Rcvd/Used/On Hand:											
				MUD DIESEL (gal) Rvcd/Used/On Hand: //26988																	
FROM	TO	HRS	CODE		OPERATIONS																
06:00	08:30	2.5	Cond Mud & Circ		LAND CASING ON MANDREL AND CIRCULATE BOTTOMS UP AT 7 BPM(PARTIAL RETURNS) RIG DOWN CSING CREW AND RIG UP CENTERERS																
08:30	11:30	3.0	Run Csg & Cement		HOLD PJSM PRESSURE TEST PUMP & LINES TO 3000 PSI, PUMP 20 BBL'S OF FRESH WATER AHEAD, PUMP 1800 SKS OR 748 BBL'S OF 11.8#, 2.42 YIELD LEAD CEMENT, PUMP 300 SKS OR 56 BBL'S OF 16.5#, 1.05 YIELD TAIL CEMENT, SHUT DOWN & DROP PLUG, DISPLACE 530 BBL'S OF FRESH WATER, BUMP PLUG WITH 1500 PSI PUMP 500 PSI OVER , BLEED OFF, CHECK FLOATS, BLEED BACK 3.5 BBL'S, PLUG HOLDING AT 11:30 ON 4/30/16,DROP DV TOOL PLUG, WAIT 15 MIN, OPEN DV TOOL WITH 750 PSI, CIRCULATE 20 BBL'S WITH CEMENT TRUCK, HAND OVER TO THE RIG. "0 BBL'S OF CEMENT TO SURFACE" "LEAD=MULTI C, 10% GEL, 3% SALT, 2#/SK PHENO, 2#/SK GILS, 1/4# CF, 3/10% CFL-1" "TAIL=CLASS H, 1/10% CR-1, 2/10% CFL-1, 1/4# CF"																
11:30	15:30	4.0	Cond Mud & Circ		CIRCULATE IN BETWEEN STAGES AT 6 BPM																
15:30	17:00	1.5	Run Csg & Cement		"PRESSURE TEST PUMP & LINES TO 3000 PSI, PUMP 20 BBL'S OF FRESH WATER AHEAD, PUMP 700 SKS OR 301 BBL'S OF 11.8#, 2.4 YIELD LEAD CEMENT, PUMP 300 SKS OR 57 BBL'S OF 16.5#, 1.05 YIELD TAIL CEMENT, SHUT DOWN & DROP PLUG, DISPLACE WITH 224 BBL'S OF FRESH WATER, BUMP PLUG WITH 500 PSI, WALK PRESSURE UP TO 2000 PSI & CLOSE DV TOOL, HOLD FOR 2 MIN, BLEED BACK 2.5 BBL'S, PLUG DOWN & HOLDING AT 17:00 ON 4/30/16. ""0 BBL'S OF CEMENT TO SURFACE"" ""LEAD=MULTI C, 10% GEL, 3% SALT, 2# PHENO, 2# GIL, 1/4# CF, 1/10% CFL-1, 1% CAS-2, 2/10% CR-1, 2/10% CFR-1"" ""TAIL=CLASS C, 3/10% CR-1, 1.5% CFR-1, 2/10% CFL-1, 1/4# CF""																
17:00	17:30	0.5	Rig Up & Tear																		



DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services				RIG:	Savanna 801	
RPT DATE:	May 2, 2016			SPUD DATE:	4/21/16	CASING	OD	WT	GRD	MD	TVD
AFE #:	16116	API #:	42-003-47352	DFS:	11	Surface	13-3/8	68	J-55	1,630	1,630
LEASE:	Blk 1			REPORT NO:	28	Intermediate	9-5/8	40	T-80,J-55	7,050	7,050
FIELD:	Emma (Devonian)			DOL:	27						
ELEV:	3,128	RKB:	28	LAST BOP TEST:	4/25/16						
MD:	8,416	TVD:	8,416	CSGHD:							
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:	89.73						
24 HR FTG:	1,346	HRS DRLG:	15.00								

24 HOUR SUMMARY:	TIH, DRILL OUT DV & SHOE TRACK,DRILL 8.75" SECTION OF WELL
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ACTIVITY PLANNED:	CONTINUE TO DRILL 8.75" SECTION OF WELL TO KOP
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DRILLING FLUID			Daily Mud Cost:			\$12,586			Cum Mud Cost:		\$41,428				SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
16:00	9.2	102.0	4.0			12	16		16	7						22.50	5.70	4.00

PRESSURE PARAMETERS							REDUCED PUMP RATES			
GAS SHOWS	BG:		MAX:		PORE PRESSURE:		PUMP	SPM	PRESS	DEPTH
	CONN:			CL:			#1	40	440	8,166
	TRIP:		LITHOLOGY:				#2	40	460	8,166

[illegible]

BIT DATA						DAILY						CUM
NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	IN	OUT	FEET	HRS	RPM	WOB	ROP
4	8.75	NOV	SKH716M	A202446	7 X 13S	7,050	8,416	1,366	15.00	125	35	91.07

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP	
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HYDRAULICS DATA

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	6.000	12.000	60	2200	250	4.186	95					
2	HHF	1600	6.000	12.000	60	2200	250	4.186	95					

BHA

DESCRIPTION:	NOV BHA #1, WELL BHA #4
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LENGTH	1,091.66	BHA WT. AIR		BHA WT. MUD	128,000	HRS. ON JARS	
ROT. WT.	250,000	P.U. WT.	260,000	S.O. WT.	235,000	TORQUE	

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
7,838	1.90	251.00	7,838					
7,928	0.40	7.00	7,928					
8,107	0.10	70.00	8,107					
8,286	0.20	42.00	8,286					

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand: /1718/5096	DRILL H2O (gal) Rcvd/Used/On Hand:	
	MUD DIESEL (gal) Rcvd/Used/On Hand: //26988		

[illegible]

TOTAL HRS	24.0							
WEATHER								
GEN. CONDITIONS:	CLOUDY	WIND SPEED:		15	WIND DIRECTION:	N	TEMP:	46
COMMENTS:								

COST DATA

AFE AMT:	\$4,336,500	Daily Drlg Cost:	\$112,431	Intangibles Cum:	\$1,111,252	Cum Well Cost:	\$1,343,085
AFE TWC:	\$6,909,700	Cum Drlg Cost:	\$1,343,085	Tangibles Cum:	\$231,833		

DRILLING SUPERVISOR:	Roy Kimbel	RIG PHONE:	432-653-0403
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DRILLING REPORT

WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services				RIG: Savanna 801																					
RPT DATE: May 3, 2016				SPUD DATE: 4/21/16				CASING		OD	WT	GRD	MD	TVD															
AFE #: 16116		API #: 42-003-47352		DFS: 12				Surface		13-3/8	68	J-55	1,630	1,630															
LEASE: Blk 1				REPORT NO: 29				Intermediate		9-5/8	40	T-80,J-5	7,050	7,050															
FIELD: Emma (Devonian)				DOL: 28																									
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																									
MD: 10,130		TVD: 10,130		CSGHD:																									
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 72.94																									
24 HR FTG: 1,714		HRS DRLG: 23.50																											
24 HOUR SUMMARY: DRILL 8.75" SECTION OF WELL TO KOP																													
ACTIVITY PLANNED: CONTINUE TO DRILL 8.75" SECTION OF WELL TO KOP																													
DRILLING FLUID				Daily Mud Cost: \$5,513				Cum Mud Cost: \$46,941				SHOE TEST:																	
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)		PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP												
16:00	8.9	84.0	4.0			12	16		19	8					25.00	5.70	3.00												
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG: 30		MAX: 77		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH													
		CONN: 65		CL: 54,000						#1		40		410		9,242													
		TRIP:		LITHOLOGY: 60%LIMESTONE/40% SHALE						#2		40		421		9,242													
SHOW DEPTHS		ROP Before/During After				GAS				MUD WT.		CHLORIDES				REMARKS													
BIT DATA										DAILY						CUM													
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP					
4		8.75		NOV		SKH716M		A202446		7 X 13S		8,416		10,130		1,714		23.50		125		35		80.00					
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		6.000		12.000		60		2200		250		4.186		95		9.25		242		365		1.27			
2		HHF		1600		6.000		12.000		60		2200		250		4.186		95		9.25		242		365		1.27			
BHA																													
DESCRIPTION:		NOV BHA #1, WELL BHA #4																											
LENGTH		1,091.66				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS							
ROT. WT.		270,000				P.U. WT.				280,000				S.O. WT.				260,000				TORQUE							
SURVEY DATA																													
MD		ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS			
9,362		0.10				84.00				9,362																			
9,541		0.30				81.00				9,541																			
9,720		0.30				30.00				9,720																			
9,988		1.10				41.00				9,988																			
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: /2118/2978										DRILL H2O (gal) Rvcd/Used/On Hand:															
				MUD DIESEL (gal) Rvcd/Used/On Hand: //26988																									
FROM		TO		HRS		CODE		OPERATIONS																					
06:00		16:30		10.5		Drilling		DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F/ 8416' TO 9152' , WOB=10-40K, STK'S=120, GPM=500, DH RPM=125, TD RPM=0-50, TOTAL RPM=0-175, TDT=0-10000, DPP=1900-2200.																					
16:30		17:00		0.5		Lubricate Rig		RIG SERVICE																					
17:00		06:00		13.0		Drilling		DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F/ 9152' TO 10130' , WOB=10-40K, STK'S=120, GPM=500, DH RPM=125, TD RPM=0-50, TOTAL RPM=0-175, TDT=0-10000, DPP=2000-2300.																					



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801									
RPT DATE: May 4, 2016						SPUD DATE: 4/21/16			CASING			OD	WT	GRD	MD	TVD					
AFE #: 16116		API #: 42-003-47352		DFS: 13			Surface			13-3/8		68	J-55	1,630	1,630						
LEASE: Blk 1						REPORT NO: 30			Intermediate		9-5/8		40	T-80,J-5	7,050	7,050					
FIELD: Emma (Devonian)						DOL: 29															
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																	
MD: 10,620		TVD: 10,620		CSGHD:																	
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 54.44																	
24 HR FTG: 490		HRS DRLG: 9.00																			
24 HOUR SUMMARY: DRILL TO KOP,CIRC,TOOH LD BHA #4,PU CURVE ASSEMBLY,TIH																					
ACTIVITY PLANNED: TIH,DRILL 8.75" CURVE SECTION																					
DRILLING FLUID				Daily Mud Cost:		\$930			Cum Mud Cost:		\$47,871				SHOE TEST:						
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
14:00	8.8	73.0			2	13	21		18	10	70,000					65.00	3.96	2.50			
PRESSURE PARAMETERS										REDUCED PUMP RATES											
GAS SHOWS		BG: 120	MAX:	230	PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH					
		CONN: 129		CL: 70,000	9					#1		40		410		9,242					
		TRIP:		LITHOLOGY: 95%LIMESTONE/5% SHALE						#2		40		421		9,242					
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS							
BIT DATA										DAILY								CUM			
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP
4		8.75		NOV		SKH716M		A202446		7 X 13S		10,130		10,620		490		9.00	125	35	75.16
BIT NO.	4	INNER	2	OUTER	3	DULL	CT	LOC	S N	SEAL	X	GAUGE	X	OTHER	WT	RP	TD				
HYDRAULICS DATA																					
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP					
1	HHF		1600		6.000	12.000	60	2200	250	4.186	95	9.25	242	365	1.27						
2	HHF		1600		6.000	12.000	60	2200	250	4.186	95	9.25	242	365	1.27						
BHA																					
DESCRIPTION:		NOV BHA #1, WELL BHA #4																			
LENGTH	1,091.66			BHA WT. AIR					BHA WT. MUD					HRS. ON JARS							
ROT. WT.	270,000			P.U. WT.		280,000			S.O. WT.		260,000			TORQUE							
SURVEY DATA																					
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES			E/W	V. SECTION		DLS				
10,168		1.70			17.00			10,168													
10,257		1.60			1.00			10,257													
10,436		0.90			30.00			10,436													
10,526		0.70			76.00			10,526													
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: 7203/1591/8590								DRILL H2O (gal) Rcvd/Used/On Hand:									
				MUD DIESEL (gal) Rvcd/Used/On Hand: //26988																	
FROM	TO	HRS	CODE		OPERATIONS																
06:00	15:00	9.0	Drilling		DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F/10130' TO 10620' , WOB=10-40K, STK'S=120, GPM=500, DH RPM=125, TD RPM=0-50, TOTAL RPM=0-175, TDT=0-10000, DPP=2000-2300.																
15:00	16:00	1.0	Cond Mud & Circ		ROTATE & CIRCULATE HOLE CLEAN.																
16:00	18:00	2.0	Trips		TOOH FROM 10620' TO 7830'																
18:00	21:30	3.5	Reaming		HOLE TIGHT BACKREAM FROM 7830' TO 7544'																
21:30	04:00	6.5	Trips		TOOH AND LAY DOWN ALL 6.5" DC'S, AND BHA #4																
04:00	05:00	1.0	Other		INSTALL OMRON SOFTWARE FOR SLIDER																
05:00	06:00	1.0	Dir Work		PICK UP 8.75" CURVE ASSEMBLY																



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services					RIG: Savanna 801																			
RPT DATE: May 5, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352			DFS: 14					Surface			13-3/8	68	J-55	1,630	1,630												
LEASE: Blk 1					REPORT NO: 31					Intermediate			9-5/8	40	T-80,J-55	7,050	7,050												
FIELD: Emma (Devonian)					DOL: 30																								
ELEV: 3,128		RKB: 28			LAST BOP TEST: 4/25/16																								
MD: 10,945		TVD: 10,945			CSGHD:																								
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP: 20.97																								
24 HR FTG: 325		HRS DRLG: 15.50																											
24 HOUR SUMMARY: MU DIRECTIONAL TOOLS,TIH,DRILL 8.75" CURVE SECTION																													
ACTIVITY PLANNED: DRILL 8.75" CURVE SECTION,TD,TOOH TO RUN 7" CASING																													
DRILLING FLUID				Daily Mud Cost:			\$2,850			Cum Mud Cost:			\$50,721				SHOE TEST:												
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
17:00	8.8	74.0	2.5		2	14	22		20	10	70,000					65.00	3.96	2.50											
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG: 20		MAX: 400		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH													
		CONN:		CL: 70,000		9				#1		40		511		10,773													
		TRIP: 400		LITHOLOGY: 95%LIMESTONE/5% SHALE						#2		40		540		10,773													
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES				REMARKS														
BIT DATA										DAILY								CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP					
5		8.75		BAKER HUGHES		HP624		TX19729R		16s X 2 X 1/2		10,620		10,945		325		15.50		168		40		20.97					
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		6.000		12.000		60		3000		250		4.186		95		9.25		242		365		1.27			
2		HHF		1600		6.000		12.000		60		3000		250		4.186		95		9.25		242		365		1.27			
BHA																													
DESCRIPTION:		LEGACY BHA #1, WELL BHA #5																											
LENGTH		1,548.05		BHA WT. AIR				BHA WT. MUD				HRS. ON JARS																	
ROT. WT.		270,000		P.U. WT.		280,000		S.O. WT.		260,000		TORQUE		10,000															
SURVEY DATA																													
MD		ANGLE		AZIMUTH		TVD		N/S		COORDINATES		E/W		V. SECTION		DLS													
10,715		14.98		353.84		10,711		57.0		36.6		47.7		14.0															
10,760		16.56		355.88		10,755		69.2		35.5		59.8		3.7															
10,804		17.65		350.44		10,797		82.0		34.0		72.7		4.4															
10,849		21.80		347.45		10,838		96.9		31.0		87.9		9.5															
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: /1775/6815								DRILL H2O (gal) Rvcd/Used/On Hand:																			
		MUD DIESEL (gal) Rvcd/Used/On Hand: 7200/16988/17200																											
FROM	TO	HRS	CODE	OPERATIONS																									
06:00	07:00	1.0	Dir Work	PICK UP 8.75" CURVE ASSEMBLY,SCRIBE AND TEST TOOLS																									
07:00	10:30	3.5	Trips	TIH TO 7100' FILL PIPE,TEST MWD GOOD TEST																									
10:30	11:00	0.5	Lubricate Rig	RIG SERVICE																									
11:00	13:30	2.5	Trips	TIH FROM 7100' TO 10620' WASH DOWN LAST JOINT TO BOTTOM																									
13:30	14:30	1.0	Other	MUD COMING OVER FLOW NIPPLE, INSTALL DRILLING RUBBER																									
14:30	06:00	15.5	Drilling	DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F10620'- 10945', WOB=10-45K, STK'S=130, GPM=545, DH																									



WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services				RIG: Savanna 801												
RPT DATE: May 6, 2016				SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD					
AFE #: 16116		API #: 42-003-47352		DFS: 15				Surface			13-3/8	68	J-55	1,630	1,630					
LEASE: Blk 1				REPORT NO: 32				Intermediate			9-5/8	40	T-80,J-5	7,050	7,050					
FIELD: Emma (Devonian)				DOL: 31																
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																
MD: 11,120		TVD: 10,988		CSGHD:																
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 20.59																
24 HR FTG: 175		HRS DRLG: 8.50																		
24 HOUR SUMMARY:				DRILL & SURVEY 8 3/4 HOLE F10945-10993FT, TOO H, LD BHA #1, PU & MU BHA #2, TIH WITH BHA #2, WASH & REAM F10550-10993FT, DRILL & SURVEY 8 3/4 HOLE F10993-11120FT.																
ACTIVITY PLANNED:				DRILL & LAND 8 3/4 CURVE.																
DRILLING FLUID				Daily Mud Cost:		\$8,500				Cum Mud Cost:		\$59,221				SHOE TEST:				
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP		
17:00	8.9	74.0	2.5		2.5	14	24		21	10	77,000					65.50	3.06	2.50		
PRESSURE PARAMETERS										REDUCED PUMP RATES										
GAS SHOWS	BG:	25	MAX:		360	PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH				
	CONN:	40		CL:						#1		40		511		10,773				
	TRIP:	360	LITHOLOGY: 100% LIMESTONE.				#2		40		540		10,773							
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES				REMARKS					
BIT DATA										DAILY								CUM		
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP
6	8.75		ULTERRA		U516M		31264		5X16		10,993		11,120		127		4.00	160	50	31.75
5	8.75		BAKER HUGHES		HP624		TX19729R		16s X 2 X 1		10,620		10,993		373		15.50	168	40	22.52
BIT NO.	5	INNER	4	OUTER	3	DULL	BT	LOC	ALL	SEAL	E	GAUGE	X	OTHER	LT	RP	ROP			
HYDRAULICS DATA																				
PUMP	MAKE		MODEL		LINER		STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP			
1	HHF		1600		6.000		12.000	68	3500	285	4.186	95	9.28	270		1.51				
2	HHF		1600		6.000		12.000	68	3500	285	4.186	95	9.28	270		1.51				
BHA																				
DESCRIPTION:		LEGACY BHA #2, WELL BHA #6																		
LENGTH	1,548.05			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS				
ROT. WT.	273,000			P.U. WT.			288,000			S.O. WT.			261,000			TORQUE			10,000	
SURVEY DATA																				
MD		ANGLE			AZIMUTH			TVD			N/S	COORDINATES			E/W	V. SECTION			DLS	
10,939		34.19			345.19			10,918			137.4			20.8			129.6			14.9
10,984		39.65			346.11			10,954			163.6			14.1			156.6			12.2
11,028		42.43			345.25			10,988			191.6			6.9			185.5			6.5
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: 0/1376/5439							DRILL H2O (gal) Rvcd/Used/On Hand:											
		MUD DIESEL (gal) Rvcd/Used/On Hand: 7203/8386/16017																		
OPERATIONS																				
FROM	TO	HRS	CODE		DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F/10945' - 10993', WOB=10-45K, STK'S=130, GPM=545, DH RPM=157, TD RPM=0-30, TOTAL RPM=0-187, TDT=0-7000, DPP=3000-3500.															
06:00	10:30	4.5	Drilling																	
10:30	16:30	6.0	Trips		TOOH.															
16:30	18:00	1.5	Dir Work		LD BHA #1, PU, MU, SCRIBE, ORIENTATE & SURFACE TEST BHA #2.															
18:00	22:00	4.0	Trips		TIH WITH BHA #2.															
22:00	22:30	0.5	Dir Work		STOP AT CSG SHOE & TEST TOOLS, TOOLS WORKING AS DESIGNED.															
22:30	00:00	1.5	Trips		FINISH TIH.															
00:00	02:00	2.0	Reaming																	



DRILLING REPORT

WELL: University 9-35 2H				CONTRACTOR: Savanna Energy Services					RIG: Savanna 801		
RPT DATE: May 7, 2016				SPUD DATE: 4/21/16		CASING	OD	WT	GRD	MD	TVD
AFE #: 16116		API #: 42-003-47352		DFS: 16		Surface	13-3/8	68	J-55	1,630	1,630
LEASE: Blk 1				REPORT NO: 33		Intermediate	9-5/8	40	T-80,J-55	7,050	7,050
FIELD: Emma (Devonian)				DOL: 32							
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16							
MD: 11,578		TVD: 11,160		CSGHD:							
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP:		39.83					
24 HR FTG: 458		HRS DRLG: 11.50									

24 HOUR SUMMARY:	DRILL & SURVEY 8 3/4 HOLE F11120-11578FT, CIR & ROTATE HOLE CLEAN, BACKREAM CURVE, CIR & ROTATE HOLE CLEAN, TOO.
ACTIVITY PLANNED:	FINISH TOO, LD HWDP & BHA, RIG UP & RUN 7 INCH CSG.

DRILLING FLUID			Daily Mud Cost:			\$9,200			Cum Mud Cost:		\$68,421				SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	8.9	74.0	2.5		2.5	14	24		21	10	77,000					65.50	3.06	2.50

PRESSURE PARAMETERS						REDUCED PUMP RATES			
GAS SHOWS	BG:		MAX:		PORE PRESSURE:	PUMP	SPM	PRESS	DEPTH
	CONN:		CL:			#1	40	511	10,773
	TRIP:		LITHOLOGY:	100% LIMESTONE AT 11578FT.		#2	40	540	10,773

[illegible]

BIT DATA										DAILY							CUM									
NO.	SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP									
6	8.75		ULTERRA		U516M		31264		5X16		11,120	11,578	458	11.50	160	50	37.74									
BIT NO.			INNER			OUTER			DULL			LOC			SEAL			GAUGE			OTHER			RP		

HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	6.000	12.000	68	3500	285	4.186	95	9.28	270		1.51	
2	HHF	1600	6.000	12.000	68	3500	285	4.186	95	9.28	270		1.51	

BHA							
DESCRIPTION:		LEGACY BHA #2, WELL BHA #6					
LENGTH	1,548.05	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	273,000	P.U. WT.	288,000	S.O. WT.	261,000	TORQUE	15,000

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,386	84.06	350.35	11,150	494.4	-56.2	494.8	10.4	
11,431	85.69	350.80	11,154	538.6	-63.5	539.5	3.8	
11,476	86.16	350.48	11,158	582.9	-70.8	584.4	1.3	
11,521	87.99	349.49	11,160	627.1	-78.6	629.3	4.6	

CONSUMABLES	RIG DIESEL (gal) Rvcd/Used/On Hand: 0/2176/3263	DRILL H2O (gal) Rvcd/Used/On Hand:	
	MUD DIESEL (gal) Rvcd/Used/On Hand: 0/1260/14757		

FROM	TO	HRS	CODE	OPERATIONS
06:00	17:30	11.5	Drilling	DRILL & SURVEY 8 3/4 HOLE WHILE SLIDING & ROTATING F11120-11578FT, WOB=10-50K, STK'S=136, GPM=568, DH RPM=160, TD RPM=0-30, TOTAL RPM=0-190, TDT=0-12000, DPP=3200-3700. "NOTIFY THE TRRC OF UPCOMING TD, CSG RUN & CEMENT JOB AT 12.00 ON 5/6/16 VIA MICHELE" "TD (11578FT) THE 2ND INTERMEDIATE SECTION AT 17.30 ON 5/6/16"
17:30	20:30	3.0	Cond Mud & Circ	CIRCULATE & ROTATE HOLE CLEAN. "MUD LOGGERS ON STANDBY AT 20.30 ON 5/6/16"
20:30	00:30	4.0	Reaming	BACK REAM CURVE F11578-10600FT, REAM BACK TO BOTTOM F11578-10600FT.
00:30	03:30	3.0	Cond Mud & Circ	CIRCULATE & ROTATE HOLE CLEAN.
03:30	06:00	2.5	Trips	TOOH.
TOTAL HRS		24.0		

WEATHER											
GEN. CONDITIONS:		CLEAR	WIND SPEED:		12	WIND DIRECTION:		SSE	TEMP:		64
COMMENTS:											

COST DATA					
AFE AMT:	\$4,336,500	Daily Drlg Cost:	\$59,645	Intangibles Cum:	\$1,489,275
AFE TWC:	\$6,909,700	Cum Drlg Cost:	\$1,721,108	Tangibles Cum:	\$231,833
				Cum Well Cost:	\$1,721,108

DRILLING SUPERVISOR:	David Crow	RIG PHONE:	432-653-0403
	www.wellez.net	WellEz Information Management LLC	08.06.15cv



DRILLING REPORT

[illegible]



DRILLING REPORT



DRILLING REPORT

WELL:	University 9-35 2H			CONTRACTOR:	Savanna Energy Services			RIG:	Savanna 801		
RPT DATE:	May 10, 2016			SPUD DATE:	4/21/16	CASING	OD	WT	GRD	MD	TVD
AFE #:	16116	API #:	42-003-47352	DFS:	19	Surface	13-3/8	68	J-55	1,630	1,630
LEASE:	Blk 1			REPORT NO:	36	Intermediate	9-5/8	40	T-80,J-55	7,050	7,050
FIELD:	Emma (Devonian)			DOL:	35	Intermediate II	7	26	HCL-80	11,545	11,161
ELEV:	3,128	RKB:	28	LAST BOP TEST:	4/25/16						
MD:	11,675	TVD:	11,162	CSGHD:							
PROP MD:	19,149	PROP TVD:	11,031	DAILY ROP:	21.56						
24 HR FTG:	97	HRS DRLG:	4.50								

24 HOUR SUMMARY:	FINISH READY RIG FLOOR, PU & MU DIR BHA #3, TIH WITH BHA #3, DRILL CEMENT & TOOLS F6735-6785FT, CONTINUE TIH, DRILL CEMENT & TOOLS F11390-11578FT, DRILL & SURVEY 6 1/8 HOLE F11578-11675FT.
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ACTIVITY PLANNED:	DRILL 6 1/8 LATERAL.
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[illegible]

PRESSURE PARAMETERS					REDUCED PUMP RATES				
GAS SHOWS	BG:	9	MAX:	9	PORE PRESSURE:	PUMP	SPM	PRESS	DEPTH
	CONN:		CL:			#1			
	TRIP:		LITHOLOGY:	100% LIMESTONE AT 11640FT.		#2			

[illegible][illegible]

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP
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HYDRAULICS DATA														
PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	5.000	12.000	86	2600	250	2.91	95					
2	HHF	1600	5.000	12.000				2.91	95					

BHA							
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7					
LENGTH	10,527.81	BHA WT. AIR		BHA WT. MUD		HRS. ON JARS	
ROT. WT.	205,000	P.U. WT.	215,000	S.O. WT.	200,000	TORQUE	8,000

SURVEY DATA								
MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
11,614	88.29	347.97	11,163	718.3	-96.8	722.2	1.7	

CONSUMABLES	RIG DIESEL (gal) Rcvd/Used/On Hand:	0/974/7731	DRILL H2O (gal) Rcvd/Used/On Hand:	
	MUD DIESEL (gal) Rcvd/Used/On Hand:	14402/14402/0		

[illegible]

TOTAL HRS	24.0				
WEATHER					
GEN. CONDITIONS: CLEAR		WIND SPEED: 8		WIND DIRECTION: SW	
				TEMP:	59

COMMENTS:											
COST DATA											
AFE AMT:		\$4,336,500	Daily Drlg Cost:		\$83,430	Intangibles Cum:		\$1,734,805	Cum Well Cost:	\$2,136,638	
AFE TWC:		\$6,909,700	Cum Drlg Cost:		\$2,136,638	Tangibles Cum:		\$401,833			
DRILLING SUPERVISOR:			David Crow			RIG PHONE:				432-653-0403	



DRILLING REPORT



DRILLING REPORT



DRILLING REPORT



DRILLING REPORT



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801										
RPT DATE: May 15, 2016						SPUD DATE: 4/21/16			CASING		OD	WT	GRD	MD	TVD							
AFE #: 16116		API #: 42-003-47352				DFS: 24			Surface		13-3/8	68	J-55	1,630	1,630							
LEASE: Blk 1						REPORT NO: 41			Intermediate		9-5/8	40	T-80,J-55	7,050	7,050							
FIELD: Emma (Devonian)						DOL: 40			Intermediate II		7	26	HCL-80	11,545	11,161							
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																		
MD: 16,600		TVD: 11,097		CSGHD:																		
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 41.30																		
24 HR FTG: 950		HRS DRLG: 23.00																				
24 HOUR SUMMARY: DRILL & SURVEY 6 1/8 HOLE F15650-16600FT.																						
ACTIVITY PLANNED: DRILL 6 1/8 LATERAL.																						
DRILLING FLUID				Daily Mud Cost:			\$3,200		Cum Mud Cost:		\$91,296			SHOE TEST:								
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)		PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP					
17:00	9.1	64.0			4	10	19		17	7				#####	72.50	5.51	3.50					
PRESSURE PARAMETERS										REDUCED PUMP RATES												
GAS SHOWS		BG: 10		MAX: 53		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH						
		CONN: 47		CL:						#1		30		550		16,025						
		TRIP:		LITHOLOGY: 100% LIMESTONE AT 16500FT.				#2														
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS								
BIT DATA										DAILY							CUM					
NO.	SIZE	MAKE			TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP						
7	6.13	SMITH			Z613		JK9162	3X16 & 3X12		15,650	16,600	950	23.00	145	35	42.20						
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP						
HYDRAULICS DATA																						
PUMP	MAKE		MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP						
1	HHF		1600		5.000	12.000	86	2800	250	2.91	95	9.68	284	410	9	.31						
2	HHF		1600		5.000	12.000				2.91	95											
BHA																						
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																				
LENGTH		10,527.81			BHA WT. AIR			BHA WT. MUD			HRS. ON JARS											
ROT. WT.		210,000			P.U. WT.			255,000			S.O. WT.			150,000			TORQUE			16,000		
SURVEY DATA																						
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES		E/W	V. SECTION		DLS						
16,161		92.10			346.65			11,105		5,143.2		-1,138.0		5,267.6		0.1						
16,255		91.99			346.46			11,102		5,234.6		-1,159.9		5,361.5		0.2						
16,350		91.31			346.19			11,099		5,326.8		-1,182.3		5,456.5		0.8						
16,444		90.50			346.05			11,098		5,418.1		-1,204.8		5,550.4		0.9						
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: 0/1718/5612						DRILL H2O (gal) Rcvd/Used/On Hand:														
		MUD DIESEL (gal) Rvcd/Used/On Hand: 7193/7818/3073																				
FROM	TO	HRS	CODE		OPERATIONS																	
06:00	15:00	9.0	Drilling		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F15650-16025FT, WOB=10-30K, STK'S=86, GPM=250, DH RPM=145, TD RPM=0-80, TOTAL RPM=145-225, TDT=7000-18000, DPP=2800-3300. 100% LIMESTONE AT 15690FT. 100% LIMESTONE AT 15780FT. 100% LIMESTONE AT 15870FT. 100% LIMESTONE AT 15960FT. 100% LIMESTONE AT 16020FT.																	
15:00	15:30	0.5	Lubricate Rig		RIG SERVICE & DERRICK INSPECTION.																	
15:30	05:00	13.5	Drilling		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F16025-16530FT, WOB=10-30K, STK'S=86, GPM=250, DH RPM=145, TD RPM=0-80, TOTAL RPM=145-225, TDT=7000-18000, DPP=2800-3400. 100% LIMESTONE AT 16110FT. 100% LIMESTONE AT 16200FT. 100% LIMESTONE AT 16380FT. 100% LIMESTONE AT 16440FT. 100% LIMESTONE AT 16500FT.																	
05:00	05:30	0.5	Lubricate Rig		RIG SERVICE & DERRICK INSPECTION.																	
05:30	06:00	0.5																				



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services										RIG: Savanna 801														
RPT DATE: May 16, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352			DFS: 25					Surface			13-3/8	68	J-55	1,630	1,630												
LEASE: Blk 1					REPORT NO: 42					Intermediate			9-5/8	40	T-80,J-55	7,050	7,050												
FIELD: Emma (Devonian)					DOL: 41					Intermediate II			7	26	HCL-80	11,545	11,161												
ELEV: 3,128		RKB: 28			LAST BOP TEST: 4/25/16																								
MD: 17,280		TVD: 11,086			CSGHD:																								
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP: 30.22																								
24 HR FTG: 680		HRS DRLG: 22.50																											
24 HOUR SUMMARY: DRILL & SURVEY 6 1/8 HOLE F16600-17280FT.																													
ACTIVITY PLANNED: DRILL 6 1/8 LATERAL, POSSIBLE CIR HOLE CLEAN & TOOH DEPENDING ON MOTOR YEILD.																													
DRILLING FLUID				Daily Mud Cost:			\$3,400			Cum Mud Cost:			\$94,696			SHOE TEST:													
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
17:00	9.0	64.0			4	11	20		17	8					#####	72.50	6.54	4.00											
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG: 9		MAX: 43		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH												
		CONN: 32		CL:							#1		30		820		17,065												
		TRIP:		LITHOLOGY:		100% LIMESTONE AT 17220FT.					#2																		
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS															
BIT DATA										DAILY								CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP								
7		6.13		SMITH		Z613		JK9162		3X16 & 3X12		16,600		17,280		680		22.50	145	35	40.30								
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		5.000		12.000		86		3100		250		2.91		95		9.68		284		410		9		.31	
2		HHF		1600		5.000		12.000						2.91		95													
BHA																													
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																											
LENGTH		10,527.81			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS												
ROT. WT.		215.000			P.U. WT.			255.000			S.O. WT.			155.000			TORQUE			19.000									
SURVEY DATA																													
MD		ANGLE			AZIMUTH			TVD			N/S		COORDINATES			E/W		V. SECTION			DLS								
16,918		90.20			346.47			11,088			5,879.3		-1,313.8			6,024.3			0.9										
17,013		90.36			346.37			11,087			5,971.6		-1,336.1			6,119.2			0.2										
17,107		90.28			346.54			11,087			6,063.0		-1,358.1			6,213.2			0.2										
17,202		90.78			347.49			11,086			6,155.6		-1,379.4			6,308.2			1.1										
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: 0/1604/4008										DRILL H2O (gal) Rvcd/Used/On Hand:																	
		MUD DIESEL (gal) Rvcd/Used/On Hand: 0/0/3073																											
FROM	TO	HRS	CODE			OPERATIONS																							
06:00	17:00	11.0	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F16600-17070FT, WOB=10-30K, STK'S=86, GPM=250, DH RPM=145, TD RPM=0-80, TOTAL RPM=145-225, TDT=7000-18000, DPP=2950-3500. 100% LIMESTONE AT 16680FT. 100% LIMESTONE AT 16770FT. 100% LIMESTONE AT 16860FT. 100% LIMESTONE AT 16920FT. 100% LIMESTONE AT 17010FT.																							
17:00	17:30	0.5	Lubricate Rig			RIG SERVICE & DERRICK INSPECTION.																							
17:30	20:00	2.5	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17070-17090FT, WOB=10-30K, STK'S=86, GPM=250, DH RPM=145, TD RPM=0-80, TOTAL RPM=145-225, TDT=7000-18000, DPP=2950-3600. 100% LIMESTONE AT 17070FT.																							
20:00	21:00	1.0	Other			SEE 400-500 PSI PRESSURE LOSS, PULL UP SWAP PUMPS, CLEAN SUCTION SCREENS, ETC, FIND 8.3# OBM HAD BEEN TRANSFERRED INTO SUCTION "NOT OPPOSITE END OF PIT" CAUSING PRESSURE DROP.																							
21:00	06:00	9.0	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17090-17280FT, WOB=10-30K, STK'S=86, GPM=250, DH RPM=145, TD RPM=0-80, TOTAL RPM=145-225, TDT=7000-19000, DPP=3100-3700. 100% LIMESTONE AT 17130FT. 100% LIMESTONE AT 17250FT.																							



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801																	
RPT DATE: May 17, 2016						SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352		DFS: 26				Surface			13-3/8		68	J-55	1,630	1,630													
LEASE: Blk 1						REPORT NO: 43				Intermediate			9-5/8		40	T-80,J-55	7,050	7,050											
FIELD: Emma (Devonian)						DOL: 42				Intermediate II			7		26	HCL-80	11,545	11,161											
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																									
MD: 17,860		TVD: 11,071		CSGHD:																									
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP: 25.22																									
24 HR FTG: 580		HRS DRLG: 23.00																											
24 HOUR SUMMARY: DRILL & SURVEY 6 1/8 HOLE F17280-17860FT.																													
ACTIVITY PLANNED: DRILL 6 1/8 LATERAL.																													
DRILLING FLUID				Daily Mud Cost:				\$750				Cum Mud Cost:				\$95,446				SHOE TEST:									
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP													
17:00	8.9	58.0			4	9	17	16	7				#####	75.00	5.84	3.80													
PRESSURE PARAMETERS									REDUCED PUMP RATES																				
GAS SHOWS		BG: 10		MAX:		75		PORE PRESSURE:						PUMP		SPM		PRESS		DEPTH									
		CONN: 57		CL:								#1		30		720		17,635											
		TRIP:		LITHOLOGY: 100% LIMESTONE AT 17800FT.						#2																			
SHOW DEPTHS		ROP Before/During After				GAS				MUD WT.				CHLORIDES				REMARKS											
BIT DATA												DAILY						CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP					
7		6.13		SMITH		Z613		JK9162		3X16 & 3X12		17,280		17,860		580		23.00		145		35		38.19					
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		5.000		12.000		95		3350		276		2.91		95		9.68		284		410		9		.31	
2		HHF		1600		5.000		12.000								2.91		95											
BHA																													
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																											
LENGTH		10,527.81				BHA WT. AIR								BHA WT. MUD								HRS. ON JARS							
ROT. WT.		213,000				P.U. WT.				25,000				S.O. WT.				155,000				TORQUE				19,000			
SURVEY DATA																													
MD		ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS			
17,486		90.76				347.25				11,081				6,432.7		-1,441.3				6,592.2		0.4							
17,580		91.37				347.35				11,079				6,524.4		-1,462.0				6,686.1		0.7							
17,675		92.63				348.31				11,076				6,617.2		-1,482.0				6,781.1		1.7							
17,769		93.16				348.41				11,071				6,709.1		-1,501.0				6,875.0		0.6							
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: 6461/1478/8991								DRILL H2O (gal) Rvcd/Used/On Hand:																	
				MUD DIESEL (gal) Rvcd/Used/On Hand: 738/3487/324																									
FROM	TO	HRS	CODE			OPERATIONS																							
06:00	10:00	4.0	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17280-17345FT, WOB=10-30K, STK'S=95, GPM=276, DH RPM=160, TD RPM=0-80, TOTAL RPM=160-240, TDT=7000-19000, DPP=3350-4000. 100% LIMESTONE AT 17310FT.																							
10:00	10:30	0.5	Lubricate Rig			RIG SERVICE & DERRICK INSPECTION.																							
10:30	22:30	12.0	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17345-17630FT, WOB=10-30K, STK'S=95, GPM=276, DH RPM=160, TD RPM=0-80, TOTAL RPM=160-240, TDT=7000-19000, DPP=3350-4000. 100% LIMESTONE AT 17460FT. 100% LIMESTONE AT 17580FT.																							
22:30	23:00	0.5	Lubricate Rig			RIG SERVICE & DERRICK INSPECTION.																							
23:00	06:00	7.0	Drilling			DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17630-17860FT, WOB=10-30K, STK'S=95, GPM=276, DH RPM=160, TD RPM=0-80, TOTAL RPM=160-240, TDT=7000-19000, DPP=3350-4000. 100% LIMESTONE AT 17670FT. 100% LIMESTONE AT 17800FT.																							



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services										RIG: Savanna 801														
RPT DATE: May 18, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352			DFS: 27					Surface			13-3/8	68	J-55	1,630	1,630												
LEASE: Blk 1					REPORT NO: 44					Intermediate			9-5/8	40	T-80,J-5	7,050	7,050												
FIELD: Emma (Devonian)					DOL: 43					Intermediate II			7	26	HCL-80	11,545	11,161												
ELEV: 3,128		RKB:	28			LAST BOP TEST: 4/25/16																							
MD: 18,550		TVD: 11,046			CSGHD:																								
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP: 30.00																								
24 HR FTG: 690		HRS DRLG: 23.00																											
24 HOUR SUMMARY: DRILL & SURVEY 6 1/8 HOLE F17860-18550FT.																													
ACTIVITY PLANNED: DRILL 6 1/8 LATERAL TO TD, PREP WELL FOR CSG RUN.																													
DRILLING FLUID				Daily Mud Cost:			\$9,500			Cum Mud Cost:			\$104,946				SHOE TEST:												
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
17:00	9.1	69.0			6	12	23		19	10					#####	71.00	4.57	3.80											
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG: 10		MAX: 72		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH													
		CONN: 72		CL:						#1		30		640		18,105													
		TRIP:		LITHOLOGY:		100% LIMESTONE AT 18450FT.				#2																			
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES				REMARKS														
BIT DATA										DAILY								CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP								
7		6.13		SMITH		Z613		JK9162		3X16 & 3X12		17,860		18,550		690		23.00	145	35	37.18								
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		5.000		12.000		87		3100		253		2.91		95		9.68		288		414		9		.32	
2		HHF		1600		5.000		12.000								2.91		95											
BHA																													
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																											
LENGTH		10,527.81			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS												
ROT. WT.		213,000			P.U. WT.			255,000			S.O. WT.			145,000			TORQUE			20,000									
SURVEY DATA																													
MD		ANGLE			AZIMUTH			TVD			N/S		COORDINATES			E/W		V. SECTION			DLS								
18,148		91.34			348.89			11,056			7,079.9		-1,578.1			7,253.6			0.6										
18,242		92.35			348.87			11,053			7,172.1		-1,596.2			7,347.5			1.1										
18,337		92.35			348.77			11,049			7,265.2		-1,614.7			7,442.4			0.1										
18,432		91.65			348.43			11,046			7,358.2		-1,633.4			7,537.4			0.8										
CONSUMABLES		RIG DIESEL (gal) Rvcd/Used/On Hand: 0/1775/7216										DRILL H2O (gal) Rvcd/Used/On Hand:																	
		MUD DIESEL (gal) Rvcd/Used/On Hand: 7199/7199/3487																											
FROM	TO	HRS	CODE		OPERATIONS																								
06:00	13:00	7.0	Drilling		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F17860-18110FT, WOB=10-30K, STK'S=95, GPM=276, DH RPM=160, TD RPM=0-80, TOTAL RPM=160-240, TDT=7000-19000, DPP=3400-4000. 100% LIMESTONE AT 17880FT. 100% LIMESTONE AT 17910FT. 100% LIMESTONE AT 18030FT.																								
13:00	13:30	0.5	Lubricate Rig		RIG SERVICE & DERRICK INSPECTION.																								
13:30	00:00	10.5	Drilling		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F18110-18330FT, WOB=10-30K, STK'S=87, GPM=253, DH RPM=146, TD RPM=0-80, TOTAL RPM=146-226, TDT=7000-19000, DPP=3100-3600. 100% LIMESTONE AT 18180FT. 100% LIMESTONE AT 18270FT. 100% LIMESTONE AT 18330FT.																								
00:00	00:30	0.5	Lubricate Rig		RIG SERVICE & DERRICK INSPECTION.																								
00:30	06:00	5.5	Drilling		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F18330-18550FT, WOB=10-30K, STK'S=87, GPM=253, DH RPM=146, TD RPM=0-80, TOTAL RPM=146-226, TDT=7000-19000, DPP=3100-3600. 100% LIMESTONE AT 18390FT. 100% LIMESTONE AT 18450FT.																								



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services										RIG: Savanna 801						
RPT DATE: May 19, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD				
AFE #: 16116		API #: 42-003-47352			DFS: 28					Surface			13-3/8	68	J-55	1,630	1,630				
LEASE: Blk 1					REPORT NO: 45					Intermediate			9-5/8	40	T-80,J-5	7,050	7,050				
FIELD: Emma (Devonian)					DOL: 44					Intermediate II			7	26	HCL-80	11,545	11,161				
ELEV: 3,128		RKB: 28			LAST BOP TEST: 4/25/16																
MD: 18,866		TVD: 11,036			CSGHD:																
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP: 30.10																
24 HR FTG: 316		HRS DRLG: 10.50																			
24 HOUR SUMMARY: DRILL 6 1/8 HOLE F18550-18866FT, BACK OUT OF HWDP TOOL JT, TOO H, MU FISHING BHA #1, TIH WITH FISHING BHA #1.																					
ACTIVITY PLANNED: ATTEMPT TO RECOVER FISH, TOO H, LD TOOL, MU DIR TOOLS, TIH & DRILL WELL TO TD.																					
DRILLING FLUID					Daily Mud Cost:			\$750			Cum Mud Cost:			\$105,696				SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
17:00	9.1	69.0			6	12	23		19	10					54,000	71.00	4.57	3.80			
PRESSURE PARAMETERS										REDUCED PUMP RATES											
GAS SHOWS		BG: 10		MAX:	40		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH			
		CONN: 32		CL:							#1		30		640		18,105				
		TRIP:		LITHOLOGY: 100% LIMESTONE AT 18866FT.					#2												
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES				REMARKS						
BIT DATA										DAILY										CUM	
NO.	SIZE	MAKE			TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP					
7	6.13	SMITH			Z613		JK9162	3X16 & 3X12		18,550	18,866	316	10.50	145	35	36.81					
BIT NO:		INNER			OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP				
HYDRAULICS DATA																					
PUMP	MAKE	MODEL			LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP					
1	HHF	1600			5.000	12.000	87	3100	253	2.91	95	9.68	288	414	9	.32					
2	HHF	1600			5.000	12.000				2.91	95										
BHA																					
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																			
LENGTH	10,527.81			BHA WT. AIR			BHA WT. MUD			HRS. ON JARS											
ROT. WT.	213,000			P.U. WT.			255,000			S.O. WT.			145,000			TORQUE		20,000			
SURVEY DATA																					
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES		E/W	V. SECTION		DLS					
18,526		91.60			348.38			11,043		7,450.3		-1,652.3		7,631.3		0.1					
18,621		92.16			348.58			11,040		7,543.3		-1,671.3		7,726.2		0.6					
18,716		92.35			348.48			11,037		7,636.3		-1,690.1		7,821.1		0.2					
CONSUMABLES																					
RIG DIESEL (gal) Rvcd/Used/On Hand: 0//7216										DRILL H2O (gal) Rvcd/Used/On Hand:											
MUD DIESEL (gal) Rvcd/Used/On Hand: 0//3487																					
OPERATIONS																					
FROM	TO	HRS	CODE		DRILL & SURVEY 6 1/8 HOLE WHILE SLIDING & ROTATING F18550-18866FT, WOB=10-30K, STK'S=87, GPM=253, DH RPM=146, TD RPM=0-80, TOTAL RPM=146-226, TDT=7000-19000, DPP=3100-3600.																
06:00	16:30	10.5	Drilling		"NOTIFY THE TRRC OF UPCOMING PRODUCTION, CSG RUN & CEMENT JOB AT 10.00 ON 5/18/16 VIA BECKY"																
					100% LIMESTONE AT 18600FT. 100% LIMESTONE AT 18720FT. 100% LIMESTONE AT 18866FT.																
16:30	17:30	1.0	UnPlanned		AT18866FT WHILE REAMING DOWN TO MAKE A CONNECTION LOOSE PUMP PRESSURE & TORQUE, ATTEMPT TO SCREW BACK INTO STRING WITHOUT SUCCESS, FISH IS 90FT OFF BOTTOM, MAKE READY TO TOO H.																
17:30	23:30	6.0	UnPlanned		TOOH.																
23:30	02:00	2.5	UnPlanned		FIND STRING CAME APART ON HWDP CONNECTION, HAVE BOX LOOKING UP AT US, SEE SIGNS OF SCREWING INTO BOX & MAKING NEW THREADS ON PIN END, TOTAL FISH LEFT IN HOLE 8865FT, TOP OF FISH SHOULD BE ROUGHLY 9911FT, WAIT ON FISHERMAN & TOOLS.																
					FISHERMAN & TOOLS ON LOCATION AT 02.00 ON 5/19/16.																
02:00	03:30	1.5	UnPlanned		UNLOAD & STRAP TOOLS, PU & MU FISHING BHA #1.																
					5 7/8 KICK TIP OVERSHOT WITH 4 7/8 GRAPPLE=3.61FT. 4 3/4 BUMPER SUB=7.90FT. X-OVER=3.52FT. TOTAL BHA=15.03FT.																
03:30	06:00	2.5	UnPlanned		TIH WITH FISHING BHA #1.																



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services					RIG: Savanna 801														
RPT DATE: May 20, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD							
AFE #: 16116		API #: 42-003-47352			DFS: 29					Surface			13-3/8	68	J-55	1,630	1,630							
LEASE: Blk 1					REPORT NO: 46					Intermediate			9-5/8	40	T-80,J-55	7,050	7,050							
FIELD: Emma (Devonian)					DOL: 45					Intermediate II			7	26	HCL-80	11,545	11,161							
ELEV: 3,128		RKB: 28			LAST BOP TEST: 4/25/16																			
MD: 18,866		TVD:			CSGHD:																			
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP:																			
24 HR FTG:		HRS DRLG:																						
24 HOUR SUMMARY: FISHING SEE SUMMARY FOR DETAILS.																								
ACTIVITY PLANNED: TIH WITH SPEAR & GRAPPLE, ATTEMPT TO SPEAR & MOVE FISH.																								
DRILLING FLUID				Daily Mud Cost:			\$750			Cum Mud Cost:			\$106,446				SHOE TEST:							
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP								
17:00	9.1	69.0			6	12	23		19	10			54,000	71.00	4.57	3.80								
PRESSURE PARAMETERS									REDUCED PUMP RATES															
GAS SHOWS		BG:		MAX:		PORE PRESSURE:			PUMP		SPM		PRESS		DEPTH									
		CONN:		CL:					#1		30		640		18,105									
		TRIP:		LITHOLOGY: 100% LIMESTONE AT 18866FT.			#2																	
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS										
BIT DATA																								
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	CUM ROP			
7		6.13		SMITH		Z613		JK9162		3X16 & 3X12		18,866		18,866					145	35	36.81			
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP								
HYDRAULICS DATA																								
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1		HHF		1600		5.000		12.000		87		3100		253		2.91		95		9.68	288	414	9	.32
2		HHF		1600		5.000		12.000								2.91		95						
BHA																								
DESCRIPTION:		LEGACY BHA #3, WELL BHA #7																						
LENGTH		10,527.81			BHA WT. AIR						BHA WT. MUD						HRS. ON JARS							
ROT. WT.		213,000			P.U. WT.			255,000			S.O. WT.			145,000			TORQUE			20,000				
SURVEY DATA																								
MD		ANGLE			AZIMUTH			TVD		N/S		COORDINATES			E/W		V. SECTION		DLS					
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: 0/2292/4924					DRILL H2O (gal) Rvcd/Used/On Hand:															
				MUD DIESEL (gal) Rvcd/Used/On Hand: 0/0/3487																				
FROM	TO	HRS	CODE		OPERATIONS																			
06:00	09:00	3.0	UnPlanned		TIH WITH FISHING BHA #1, TAG UP AT 9909FT.																			
09:00	10:30	1.5	Fishing		PICK UP & TURN PUMP ON AT 40 STK'S / 115 GPM, TOP DRIVE AT 15 RPM / 15K TORQUE, EASE STRING DOWN ON FISH, BEGIN ATTEMPTING TO WORK OVERSHOT DOWN ONTO FISH, AFTER 45 MIN GET OVERSHOT DOWN ONTO TOOL JOINT BOX, SET DOWN 50K, WORK STRING / GRAPPLE OVER FISH, PULL UP SEVERAL TIMES AFTER RE-SETTING, EACH TIME FISH SLIPPED OFF AT 211-218K *METAL TO METAL BIT ONLY, FISH IS NOT GOING INTO GRAPPLE, FISH TOOL JOINT BOX IS MORE THAN LIKELY SWOLLEN, SMASHED, ETC"																			
					"PLAN MOVING FORWARD IS TO MILL DOWN 5-6 INCHES OF TOOL JOINT LEAVING 1FT OF TOOL JOINT ABOVE HARD BAND TO CATCH WITH GRAPPLE"																			
10:30	15:30	5.0	UnPlanned		TOOH WITH FISHING BHA #1.																			
15:30	17:30	2.0	UnPlanned		FIND OVER SHOT SKIRT / KICK TIP SMASHED & SPLIT DOWN THE MIDDLE, SEE EVIDENCE OF METAL DAMAGE 6 INCHES UP ON OUTSIDE OF OVERSHOT BOWL, HWDP TOOL JOINT MUST BE SPLIT OR CRACKED AT LEAST 6 INCH DOWN, CALL & LOOK FOR FULL GAUGE 6 1/8 CONCAVE MILL, WAIT ON MILL.																			
					"RELEASE MUD LOGGERS AT 17.30 ON 5/19/16"																			
					"MILL & TOOLS ON LOCATION AT 17.30 ON 5/19/16"																			
17:30	18:00	0.5	UnPlanned		PU & MU FISHING BHA #2.																			
					X-OVER=3.52FT. X-OVER=.93FT. BIT SUB=1.5FT. 6 1/8 CONCAVE MILL=1.77FT. TOTAL BHA=7.72FT.																			
18:00	22:00	4.0	UnPlanned		TIH WITH FISHING BHA #2, TAG UP AT 9909FT.																			
22:00	01:00	3.0	UnPlanned		BREAK CIRCULATION, EASE DOWN & RE-TAG, BEGIN MILLING WITH 200 GPM & 80 RPM 2-4K TORQUE OFF BOTTOM, 2-5K ON BOTTOM, AFTER 2 HR'S OF MILLING VARYING DIFFERENT PARAMETERS SEE NO ACTION OR NO METAL BEING CUT, MAKE READY TO TOOH & INSPECT MILL.																			
01:00	05:00	4.0	UnPlanned		TOOH.																			
05:00	06:00	1.0	UnPlanned		LD & INSPECT MILL, SEE SLIGHT SIGNS OF WEAR ON OUTER EDGE OF MILL, WAIT ON SPEAR & GRAPPLE.																			



DRILLING REPORT

WELL: University 9-35 2H					CONTRACTOR: Savanna Energy Services										RIG: Savanna 801						
RPT DATE: May 21, 2016					SPUD DATE: 4/21/16					CASING			OD	WT	GRD	MD	TVD				
AFE #: 16116		API #: 42-003-47352			DFS: 30					Surface			13-3/8	68	J-55	1,630	1,630				
LEASE: Blk 1					REPORT NO: 47					Intermediate			9-5/8	40	T-80,J-55	7,050	7,050				
FIELD: Emma (Devonian)					DOL: 46					Intermediate II			7	26	HCL-80	11,545	11,161				
ELEV: 3,128		RKB: 28			LAST BOP TEST: 4/25/16																
MD: 18,866		TVD:			CSGHD:																
PROP MD: 19,149		PROP TVD: 11,031			DAILY ROP:																
24 HR FTG:		HRS DRLG:																			
24 HOUR SUMMARY: "FISHING" SEE SUMMARY FOR DETAILS.																					
ACTIVITY PLANNED: FINISH TIH WITH CLEAN OUT BHA, PRE WELL FOR LINER RUN, TOO.																					
DRILLING FLUID				Daily Mud Cost:			\$750			Cum Mud Cost:			\$107,196			SHOE TEST:					
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP			
17:00	9.1	69.0			6	12	23		19	10					#####	71.00	4.57	3.80			
PRESSURE PARAMETERS										REDUCED PUMP RATES											
GAS SHOWS		BG:		MAX:		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH				
		CONN:									#1		30		640		18,105				
		TRIP:				LITHOLOGY: 100% LIMESTONE AT 18866FT.					#2										
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS							
BIT DATA																	DAILY		CUM		
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS	RPM	WOB	ROP
7		6.13		SMITH		Z613		JK9162		3X16 & 3X12		18,866		18,866					145	35	36.81
BIT NO:		7	INNER	2	OUTER	2	DULL	CT	LOC	S & G	SEAL	NONE	GAUGE	X	OTHER	PN	RP	TD			
HYDRAULICS DATA																					
PUMP	MAKE			MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP				
1	HHF			1600		5.000	12.000				2.91	95									
2	HHF			1600		5.000	12.000				2.91	95									
BHA																					
DESCRIPTION:																					
LENGTH				BHA WT. AIR						BHA WT. MUD						HRS. ON JARS					
ROT. WT.				P.U. WT.						S.O. WT.						TORQUE					
SURVEY DATA																					
MD		ANGLE			AZIMUTH			TVD			N/S	COORDINATES			E/W	V. SECTION			DLS		
CONSUMABLES																					
RIG DIESEL (gal) Rvcd/Used/On Hand: 0/744/4180										DRILL H2O (gal) Rvcd/Used/On Hand:											
MUD DIESEL (gal) Rvcd/Used/On Hand: 0/0/3487																					
FROM	TO	HRS	CODE		OPERATIONS																
06:00	06:30	0.5	UnPlanned		PU & MU FISHING BHA #3. X-OVER=3.52FT X-OVER=.85FT. X-OVER=1.70 SPEAR=3.80FT TOTAL BHA=9.97FT.																
06:30	11:00	4.5	UnPlanned		TIH WITH FISHING BHA #3, TAG UP AT 9909FT.																
11:00	12:00	1.0	Fishing		FILL PIPE & BREAK CIRCULATION, EASE DOWN & ENGAGE SPEAR, PULL UP TO 25K OVER, SLACK OFF, PULL UP TO 50K, SPEAR SET, BEGIN WORKING PIPE, DOWN -100K & UP +100K, AFTER 30 MIN FISH CAME FREE ON AN UP STROKE AT 325K.																
12:00	19:30	7.5	UnPlanned		TOOH SLOWLY WITH FISH.																
19:30	20:30	1.0	UnPlanned		LAY DOWN FISHING TOOLS & RELEASE FISHERMAN.																
20:30	23:30	3.0	UnPlanned		LAY DOWN FISH.																
23:30	01:00	1.5	UnPlanned		LAY DOWN DIRECTIONAL BHA / FISH.																
					"100% OF FISH RECOVERED"																
01:00	06:00	5.0	UnPlanned		PU & MU CLEAN OUT BHA. BIT SUB=3.46FT. 6 1/8 BIT BAKER HUGHES SN #5248470=.65FT. TOTAL BHA=4.11FT.																
					</																



DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801							
RPT DATE: May 22, 2016						SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD		
AFE #: 16116		API #: 42-003-47352		DFS: 31				Surface			13-3/8	68	J-55	1,630	1,630				
LEASE: Blk 1						REPORT NO: 48				Intermediate			9-5/8	40	T-80,J-55	7,050	7,050		
FIELD: Emma (Devonian)						DOL: 47				Intermediate II			7	26	HCL-80	11,545	11,161		
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16															
MD: 18,866		TVD:		CSGHD:															
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP:															
24 HR FTG:		HRS DRLG:																	
24 HOUR SUMMARY: TIH, PREP WELL FOR LINER RUN.																			
ACTIVITY PLANNED: PREP WELL FOR LINER RUN, PUMP WEIGHTED SWEEP, CIR & ROTATE HOLE CLEAN, SHORT TRIP.																			
DRILLING FLUID				Daily Mud Cost:		\$3,200			Cum Mud Cost:		\$110,396					SHOE TEST:			
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP	
17:00	9.2	70.0			6	17	26		20	14					60,000	67.50	9.07	3.80	
PRESSURE PARAMETERS										REDUCED PUMP RATES									
GAS SHOWS	BG:		MAX:		PORE PRESSURE:					PUMP		SPM		PRESS		DEPTH			
	CONN:		CL:							#1		30		640		18,105			
	TRIP:		LITHOLOGY:	100% LIMESTONE AT 18866FT.					#2										
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS					
BIT DATA										DAILY								CUM	
NO.	SIZE	MAKE		TYPE		SER NO.	NOZZLES		IN	OUT	FEET	HRS	RPM	WOB	ROP				
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER	RP				
HYDRAULICS DATA																			
PUMP	MAKE	MODEL		LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP				
1	HHF	1600		5.000	12.000	105	3300	305	2.91	95									
2	HHF	1600		5.000	12.000				2.91	95									
BHA																			
DESCRIPTION:																			
LENGTH				BHA WT. AIR						BHA WT. MUD						HRS. ON JARS			
ROT. WT.				P.U. WT.						S.O. WT.						TORQUE			
SURVEY DATA																			
MD		ANGLE			AZIMUTH			TVD		N/S	COORDINATES		E/W	V. SECTION		DLS			
CONSUMABLES				RIG DIESEL (gal) Rvcd/Used/On Hand: 0/1260/2920						DRILL H2O (gal) Rvcd/Used/On Hand:									
				MUD DIESEL (gal) Rvcd/Used/On Hand: 0/0/3487															
FROM	TO	HRS	CODE	OPERATIONS															
06:00	07:00	1.0	UnPlanned	TIH WITH CLEAN OUT BHA.															
07:00	08:00	1.0	UnPlanned	STOP AT CSG SHOE, SLIP & CUT OF 150FT 1 3/8 DRILLING LINE.															
				"BACK HAUL ALL DIRECTIONAL TOOLS & RELEASE LEGACY DIRECTIONAL SERVICES AT 08.00 ON 5/21/16"															
08:00	08:30	0.5	UnPlanned	KELLY UP & BREAK CIRCULATION OUTSIDE OF CSG SHOE, CHECK PARAMETERS, MAKE READY TO TRIP IN OPEN HOLE.															
08:30	09:00	0.5	UnPlanned	TIH WITH CLEAN OUT ASSEMBLY, TAG UP AT 11650FT ON JUNK / REMAINING PARTS OF HWDP TOOL JOINT.															
09:00	19:00	10.0	UnPlanned	WASH & REAM / CHASE JUNK & FILL TO BOTTOM.															
19:00	22:30	3.5	Cond Mud & Circ	CIRCULATE & ROTATE ON BOTTOM FOR 3 1/2 HR'S.															
22:30	01:00	2.5	Trips	SHORT TRIP 30 STANDS F18866-16166FT, 25-75K OVER PULL, TIH WITH SAME, TAG UP AT 16250FT, WASH & REAM 1 STAND, ATTEMPT TO TIH, TAG UP AT 16341FT.															
01:00	06:00	5.0	Reaming	WASH & REAM F16341-18866FT, TD RPM=120, TDT=8-15K, STK'S=105, GPM=305 "TAKING 25-40K TO WASH & REAM STRING TO BOTTOM"															
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DRILLING REPORT

WELL: University 9-35 2H						CONTRACTOR: Savanna Energy Services						RIG: Savanna 801																	
RPT DATE: May 23, 2016						SPUD DATE: 4/21/16				CASING			OD	WT	GRD	MD	TVD												
AFE #: 16116		API #: 42-003-47352		DFS: 32				Surface			13-3/8	68	J-55	1,630	1,630														
LEASE: Blk 1						REPORT NO: 49				Intermediate			9-5/8	40	T-80,J-55	7,050	7,050												
FIELD: Emma (Devonian)						DOL: 48				Intermediate II			7	26	HCL-80	11,545	11,161												
ELEV: 3,128		RKB: 28		LAST BOP TEST: 4/25/16																									
MD: 18,866		TVD:		CSGHD:																									
PROP MD: 19,149		PROP TVD: 11,031		DAILY ROP:																									
24 HR FTG:		HRS DRLG:																											
24 HOUR SUMMARY:		PUMP WEIGHTED SWEEP, CIR & ROTATE HOLE CLEAN, SHORT TRIP, CIR & ROTATE HOLE CLEAN, TOOHTO CSG SHOE, TIH WITH SAME, WASH & REAM F14983-17100FT.																											
ACTIVITY PLANNED:		FINISH WASH & REAM TO BOTTOM, CIR & ROTATE HOLE CLEAN, TOOHTO RUN LINER.																											
DRILLING FLUID			Daily Mud Cost:			\$3,200			Cum Mud Cost:			\$113,596			SHOE TEST:														
TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP											
17:00	9.3	70.0			6	17	24		22	16	57,000					67.50	10.39	3.80											
PRESSURE PARAMETERS										REDUCED PUMP RATES																			
GAS SHOWS		BG:		MAX:		PORE PRESSURE:				PUMP		SPM		PRESS		DEPTH													
		CONN:		CL:						#1		30		640		18,105													
		TRIP:		LITHOLOGY:		100% LIMESTONE AT 18866FT.				#2																			
SHOW DEPTHS		ROP Before/During After			GAS			MUD WT.			CHLORIDES			REMARKS															
BIT DATA										DAILY								CUM											
NO.		SIZE		MAKE		TYPE		SER NO.		NOZZLES		IN		OUT		FEET		HRS		RPM		WOB		ROP					
BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP													
HYDRAULICS DATA																													
PUMP		MAKE		MODEL		LINER		STK		SPM		PSI		GPM		GPS		EFF %		ECD		AV DP		AV DC		BIT HHP		PUMP HHP	
1		HHF		1600		5.000		12.000		105		3300		305		2.91		95											
2		HHF		1600		5.000		12.000								2.91		95											
BHA																													
DESCRIPTION:																													
LENGTH						BHA WT. AIR								BHA WT. MUD								HRS. ON JARS							
ROT. WT.						P.U. WT.								S.O. WT.								TORQUE							
SURVEY DATA																													
MD		ANGLE				AZIMUTH				TVD				N/S		COORDINATES				E/W		V. SECTION				DLS			
CONSUMABLES																													
										RIG DIESEL (gal) Rvcd/Used/On Hand: 3487/1711/4696										DRILL H2O (gal) Rvcd/Used/On Hand:									
										MUD DIESEL (gal) Rvcd/Used/On Hand: 0/3487/0																			
OPERATIONS																													
FROM	TO	HRS	CODE		OPERATIONS																								
06:00	11:00	5.0	Cond Mud & Circ		PUMP 100 BBL 13# SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 5 HR'S.																								
					"TRANSFER 3487 GALLONS OF MUD FUEL TO RIG TANK"																								
11:00	13:30	2.5	Trips		SHORT TRIP 30 STANDS, 10-15K OVER PULL OFF BOTTOM, TIH WITH SAME, TAG UP AT 16130FT.																								
13:30	19:00	5.5	Reaming		WASH & REAM F16130-18866FT, TD RPM=120, TDT=8-15K, STK'S=105, GPM=305 "TAKING 5-30K TO WASH & REAM STRING TO BOTTOM"																								
19:00	22:00	3.0	Cond Mud & Circ		CIRCULATE & ROTATE ON BOTTOM FOR 3 HR'S.																								
22:00	01:30	3.5	Trips		TOOH TO CSG SHOE, TIH WITH SAME, TAG UP ON JUNK AT 12100FT																								
01:30	02:00	0.5	Reaming		WASH & REAM PAST JUNK F12100-12190FT.																								
02:00	03:00	1.0	Trips		TIH, TAG UP AT 14983FT.																								
03:00	06:00	3.0	Reaming		WASH & REAM F14983-17100FT, TD RPM=120, TDT=8-15K, STK'S=105, GPM=305 "TAKING 5-40K TO WASH & REAM STRING TO BOTTOM"																								

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	33
DAYS ON LOCATION:	49
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 24 2016	MD: 18,866	TVD:	FOOTAGE:	MW: 9.3	LB	PTD: 19,149
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	WASH & REAM F17100-18866FT, PUMP SWEEP & CIR HOLE CLEAN, TOO H,				
	WASH & REAM F17100-18866FT, TD RPM=120, TDT=8-15K, STK'S=105, GPM=305 "TAKING 5-40K TO WASH & REAM STRING TO BOTTOM";PUMP 100 BBL 13# SWEEP, CIRCULATE & ROTATE ON BOTTOM FOR 6 HR'S.;TOOH.;LD CLEAN OUT BHA, CLEAR & CLEAN RIG FLOOR.;MOVE IN & SPOT / RIG UP CSG CREW.					

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	34
DAYS ON LOCATION:	50
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 25 2016	MD: 18,866	TVD:	FOOTAGE:	MW: 9.3	LB	PTD: 19,149
	RIG SUPERVISOR:	David Crow / Roy Kimbel				PBTD:
	PRESENT OPERATIONS:	FINISH MU & RIH WITH LINER, MU WEATHERFORD LINER HANGER, RUN LINER & 4 INCH DP, SET & GET OFF LINER HANGER, DISPLACE OBM. FINISH MU & RIH WITH 4.5 LINER, PU & MU WEATHERFORD LINER HANGER, RIH WITH 1 STAND OF DP, BREAK CIRCULATION, CIRCULATE AT 3 BPM WHILE RIGGING DOWN CSG CREW.;TIH WITH 4.5 LINER & 4 INCH DP.;STOP OUTSIDE CSG SHOE & CIRCULATE BOTTOMS UP.;TIH WITH LINER & 4 INCH DP, TAG UP AT 17708FT, CIRCULATE AND ROTATE FROM 17708-18835FT, PULL UP & SPACE OUT, LINER & TOOLS IN PLACE AT 21:00 ON 5/24/16.;CIRCULATE BOTTOMS UP AT 4 BPM.;DROP 1.5" BALL, DISPLACE OBM WITH FRESH WATER, LAND BALL WITH 3353 STROKES / 231 BBLS INTO DISPLACEMENT, PRESSURE UP TO 2900 PSI, SET HANGER, PICK UP 230K, SLACK OFF 140K, WALK PRESSURE UP TO 4300 PSI, SEE BALL SEAT BLOW, RELEASE FROM HANGER, CONTINUE DISPLACE OBM.				
	ACTIVITY PLANNED:	FINISH DISPLACE OBM, CEMENT LINER, STING OUT, DISPLACE, TOOHP, LD DP.				

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	34
DAYS ON LOCATION:	50
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 25 2016	MD: 18,866	TVD:	FOOTAGE:	MW: 9.3	LB	PTD: 19,149
	RIG SUPERVISOR:	David Crow				PBTD:
	PRESENT OPERATIONS:	FINISH MU & RIH WITH LINER, MU WEATHERFORD LINER HANGER, RUN LINER & 4 INCH DP, FINISH MU & RIH WITH 4.5 LINER, PU & MU WEATHERFORD LINER HANGER, RIH WITH 1 STAND OF DP, BREAK CIRCULATION, CIRCULATE AT 3 BPM WHILE RIGGING DOWN CSG CREW.;TIH WITH 4.5 LINER & 4 INCH DP.;STOP OUTSIDE CSG SHOE & CIRCULATE BOTTOMS UP.;TIH WITH LINER & 4 INCH DP, PULL UP & SPACE OUT, LINER & TOOLS IN PLACE AT XX.XX ON 5/24/16.				

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	35
DAYS ON LOCATION:	51
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 26 2016	MD:	TVD:	FOOTAGE:	MW: 0.0	LB	PTD: 19,149
	RIG SUPERVISOR:	Roy Kimbel				PBTD:
	PRESENT OPERATIONS:	DISPLACE OBM,CEMENT LINER,TEST PACKER,STING OUT,DISPLACE CASING WITH WATER,TOOH 10 STDS ,LD 4" DP				
	DISPLACE OBM WITH FRESH WATER;PSI TEST PUMP & LINES TO 6000 PSI, FOLLOWED BY 24 BBL FW SPACER, START & FINISH 159 BBL'S OR 575 SKS OF 13.2#, 1.91 YIELD LEAD CEMENT, SHUT DOWN WASH UP PUMP & LINES, DROP PLUG, DISPLACE WITH 231 BBL 7% ACETIC ACID AND FRESH WATER, BUMP PLUG WITH 750 PSI, WALK PRESSURE UP TO 1200 PSI, HOLD 1200 PSI FOR 2 MIN, CHECK FLOAT, BLEED BACK 1 BBL, SET LINER HANGER PACKER, STING OUT OF LINER, PSI TEST LINER TOP TO 2500 PSI FOR 5 MIN "TEST GOOD" DISPLACE BACKSIDE WITH 370 BBL'S OF CUT BRINE					
	"CIRCULATE 0 BBL'S OF GOOD CEMENT OFF LINER TOP"					
	"PRODUCTION CEMENT & ADDITIVES" "575 SKS ULTRA C, 7% CR-1, 75% CFL-1, 2% CFR-4, 15% CAS-1, 3% SALT, 1/8# CELLOFLAKE";TOOH 10 STANDS LAY DOWN 4" DP AND LINER HANGER;TIH WITH 100 STANDS 4" DP;LAY DOWN 4" DP					
	ACTIVITY PLANNED:	LD 4" DP, TIH LD SAME, NIPPLE DOWN ,CLEAN PITS,RIG DOWN				

WELL: University 9-35 2H

Elevation Resources LLC	
DAILY OPERATIONS	
FIELD:	Emma (Devonian)
COUNTY/STATE:	Andrews/Texas
PMD:	19,149
PVD:	11,031
SURFACE LOCATION:	2300' FSL, 1600' FEL, Sec. 35, Blk 9, UL Survey
BOTTOM HOLE LOCATION:	100' FNL, 1600' FEL, Sec. 26, Blk 9, UL Survey
ELEVATION (RKB):	3,156
API #:	42-003-47352
PERMIT NUMBER:	814594
SPUD DATE & TIME:	Apr 21 2016 7:30
DAYS FROM SPUD:	36
DAYS ON LOCATION:	52
WELL ENGINEER:	Jason L. Kincaid
OBJECTIVE:	Drill 8000' Lateral
JOB NAME:	University 9-35 2H
CONTRACTOR/RIG#:	Savanna Energy Services/Savanna 801

May 27 2016	MD:	TVD:	FOOTAGE:	MW: 0.0	LB	PTD: 19,149
	RIG SUPERVISOR:	Roy Kimbel				PBTD:
	PRESENT OPERATIONS:	LD 4"DP,ND BOP'S,NU WELLHEAD,RIG DOWN				
	LAY DOWN 4" DP;NIPPLE DOWN BOP'S BACK HAULED 1505 GAL DIESEL OUT OF RIG TANK FOR MOVE;MOVE IN & SPOT / RIG UP GE , HOLD PJSM WITH SAME, REMOVE 7 INCH BIT GUIDE, NU TBG HEAD & CAP FLANGE, TEST BUSHING & FLANGE TO 5000 PSI FOR 15 MIN, RIG DOWN & RELEASE GE.					
	'ALL VALVES CLOSED / WELL SECURE AT 20:00 5/26/2016;CHANGE OUT SAVOR SUB AND CORRISION RING,RIG DOWN EQUIPMENT RIG RELEASE 06:00 5/27/2016					
	ACTIVITY PLANNED:	RIG DOWN,SCOPE DOWN SUB,LAY DERRICK OVER,RIG DOWN,PREPARE FOR TRUCKS				