



**ACTIVITY SUMMARY**RPT No: 1 RPT DATE: 11/28/2012  
CREATED: 12/17/2012

WELL: UNIVERSITY 43 #0906H

PROP#: 071369

API#: 42-235-35002

AFE#: 104981

TOTAL HRS: 24  
DRILL ROTATE: 18 / 0

CEMENTING: 6 / 0

START	END	HRS	Ph	Op	FROM	TO	ROP	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
05:00	23:00	18.00	D	DR				DRILL FROM SURFACE TO 797 FT., POOH, - TEXAS PATERN SHOE, 1 JOINT 9 5/8" 40 PPF, J-55, LT&C CASING, COLLAR, 19 JOINTS 9 5/8" 40 PPF, J-55, LT&C CASING. TOTAL CASING RAN = 801 WASHED DOWN F/ 700 TO 797 SET @ 797 CENTRALIXER MIDDLE OF FIRST JOINT EVERY OTHER JOINT TOTAL 7 CENTRAILORS. RR JOB # 13072
23:00	01:00	2.00	D	CM				INSTALL RISING STAR CEMENT HEAD, TEST LINES TO 1500 PSI, PUMP 20 BBL FRESH WATER SPACER, MIX & PUMP 500 SX LEAD, M/P CLASS C 2 % CALC2 CEMENT @ 14.8 PPG, 1.33 YIELD, MIXED WITH 6.34 GAL FRESH WATER. DISPLACED WITH 58 BBL FRESH WATER @ 6 BPM, PUMPED @ 200 PSI. BUMPED PLUG @ 15:31 HRS. PRESSURED UP TO 400 PSI. BLED OFF PRESSURE, FLOAT EQUIPMENT HELD. R.R. COM JOB # 13117, NO RETURNS, TOP JOB, RETURN 5 BBLs OR 21 SACKS OF CEMENT TO SURFACE.
01:00	05:00	4.00	D	CM				WAIT FOUR HOURS CUT OFF CASING AND RIG DOW RIG AND MAKE READY TO MOVE



## CASING AND CEMENTING REPORT

WELLNAME: UNIVERSITY 43 #0906H

WELL ID NO.: 071369

FIELD: LIN (WOLFCAMP)

API NO.: 42-235-35002

CASING STRING: SURFACE

SHOE DEPTH: 797

#CENTRALIZERS: 0

ITEM NAME	JOINTS	FOOTAGE	SIZE	WEIGHT	GRADE	CONNECTION	DEPTH	THREAD
MULE/GUIDE SHOE		1.00					796.00	
CASING	1	42.11					753.89	
FLOAT COLLAR		1.60					752.29	
CASING	21	883.05					126.76	

TOTAL LENGTH: 927.76

## COMMENTS:

## CEMENTING INFORMATION

STAGE#: 1

START DATE : 11/28/2012

TIME : 14:35

REPORT DATE : 11/28/2012

\*LEAD\*\*TAIL\*\*LEAD\*

## CEMENT TYPE

## CLASS C

CEMENT TOP(estimated)

0 ft

ft How Verified ?

CEMENT TOP(verified)

0 ft

ft Visual

SLURRY WEIGHT

14.80 ppg.

ppg

MIX WATER

6.34 gal/sx

gal/sx

WATER TYPE

FRESH

YIELD

1.33 ft3/sack

ft3/sack

SACKS

500 sx

sx

VOLUME

665 cu.ft

cu.ft

THICKENING TIME

hrs.min

hrs.min

FREE WATER

FLUID LOSS cc/30min

psi F

cc/30min

psi F

COMP.STRENGTH

psi in hrs.min

psi in hrs.min

**RETURNS :**CMT. 21

bbls.

MUD RETURNS: NONEDURATION 0.56 hrs.min

PLUG@BTM

400 hrs:minMAX PUMP PRSR 320psi BUMP PRSR 320 psiPUMP RATE 4

bmp

LEAD ADDITIVES : CLASS C + 2% CACL2+.25% R-38

TAIL ADDITIVES :

## COMMENTS :

HAD TO DO MTOP JOB WITH 5 BBLS OR 21 SACKS OF CEMENT TO SURFACE

BIFFLE WATER WELL SERVICE						MORNING REPORT							DATE 2012-11-27		RIG NO. 848	JOB TYPE	JOB NO.	WELL TYPE SURFACE									
WELLNAME UNIVERSITY 43 #0906H						LEGAL DESCRIPTION						SPUD DATE / TIME		DAYS FR SPUD 0.00		PROJECTED TD											
OPERATOR EOG RESOURCES, INC. (MIDLAND)						COUNTY / PARISH Irion				STATE TX		JOB START DATE 11/26/12 08:00		DAYS ON JOB 1.00		EST. RELEASE											
RIG MANAGER John Coonradt			RIG PHONE NUMBER 9402845429			OPERATORS REPRESENTATIVE MIKE CARTER				CO. MAN PH NO. 3252261347		RELEASE DATE / TIME		WEATHER COOL													
OPERATIONS @ REPORT TIME <b>PULLED 2 COLLARS OUT ALTERNATOR QUIT REMOVED ALTERNATOR</b>																											
OPERATIONS NEXT 24 HRS <b>DRILL</b>																											
ACCIDENTS OR NEAR MISSES:						# OF JSA's 0		RIG SAFETY DAYS 161		SAFETY RATE		C.P.S. COORDINATES N 31.1253 W -101.24		BOP TEST DATE / PRESSURE													
SAFETY MEETING TOPICS						# STOP CARDS 0		LAST MEETING DATE				CROWN-O-MATIC CHECKED		BOP DRILL DATE / TIME													
LAST INSPECTION		INSPECTION BY / TITLE				CREW M / U		EXTRA CREWS / WHY?				OFFICE NOTIFIED		MANHOURS PAST 24 60.00		BOP DRILL DATE / TIME											
CURRENT DEPTH		FOOTAGE LAST 24		PEN. RATE		ROT. HRS 9.50		MAX. GAS		BCKGR GAS		CONN. GAS		TRIP GAS		LAST CASING SIZE & SET DEPTH 9.62 797.00		<b>RIG COSTS</b>									
HOOKLOAD		PICKUP WEIGHT		SLACKOFF		ROTATING		ROTARY TORQUE		NEXT CASING SIZE & SET DEPTH						S&R		RENTAL									
Time		Mud Wt IN / OUT		Funnel Vis		PV		YLD PT		10 S GEL		10 M GEL		FI. Loss		FLT CK		HTHP FL		HTTP FC		FUEL ADDED TO MUD		AVERAGE			
Mud Type		% SOLIDS		% LCM		% SAND		% OIL		% H <sub>2</sub> O		PH		MF		PF		CALCIUM		CHLORIDES		DAILY		MUD COSTS CUM.		CUMULATIVE	
CENTRIFUGES		SHAKER TYPE		SCREENS		CHANGED		WATER SOURCE		CUMULATIVE DAYS		5.00		5.00													
<b>DETAILS OF OPERATIONS IN SEQUENCE</b>																		<b>TIME BREAKDOWN</b>		(Today / Well)							
FROM		TO		HRS		CODE												1: RIG UP / DOWN		5.00 5.00							
13:00		16:00		3.00		21		SKID RIG, RIG UP FOR SPUD										2: DRILLING		9.50 9.50							
16:00		18:00		2.00		8		WAIT ON HYDRAULIC PARTS FOR RIG										3: REAMING									
18:00		00:00		6.00		2		REPAIR RIG REPLACED HYDRAULIC FITTINGS AND TIGHTENED UP ALL LEAKS										4: CORING									
00:00		01:00		1.00		8		SPUD WELL DRILL FROM SURFACE-60'										5: COND. & CIRC									
01:00		04:30		3.50		2		REPAIR LOST POWER TROUBLESHOT FOUND ALTERNATOR GOING OUT										6: TRIPS									
04:30		06:00		1.50		21		DRILL 60-120'										7: LUBRICATE RIG									
								PULLED 2 COLLARS OUT ALTERNATOR QUIT REMOVED ALTERNATOR										8: REPAIR RIG		3.00 3.00							
																		9: C/O DRILL LINE									
																		10: DEVIATION									
																		11: WIRELINE LOG									
																		12: RUN CSG & CMNT									
																		13: WAIT ON CEMENT									
																		14: NIPPLE UP BOP									
																		15: TEST BOP									
																		16: DRILL STEM TEST									
																		17: PLUGBACK									
																		18: SQUEEZE CMNT									
																		19: FISHING									
																		20: DIR WORK									
																		21:		4.50 4.50							
																		22:									
																		23:									
																		Other									
																		Total Hours		22.00 22.00							
<b>BITS</b>																											
BIT#		SIZE		TYPE		MAKE		SERIAL#		NOZZLES		IN @		OUT @		DRILLED		HRS		CUM. HRS		CONDITION		ROP			
1		12.25		PDC		BAKER HUGHES				5 x 12.00																	
<b>PUMPS</b>																											
Depth		GPM		PRESSURE		Pump 1		Pump 2		Pump 3		Pump 4		TYPE		STROKE		Manufacturer		HRS		Total HRS		MAX PSI		K/L (BPM)	
						Liner SPM		Liner SPM		Liner SPM		Liner SPM		Pump 1													

[illegible]

05-00102 02 BUFFLE848\_23121126\_2C

[illegible]

REPORT NO. BAFLEB48\_20121127\_18

1500

[illegible]

## REPORT NO. GVFFLE848\_20121120\_18

[illegible]



## REPORT NO. BIF-PL848 20121127 13

[illegible]

00000000000000000000000000000000

DRILLING CREW PAYROLL DATA																													
Date		Well Name & No		Company		Tool Joint		Rig No																					
11/25/2012		UNIVERSITY 43 M0509H		BIFLE WATER WELL SERVICE		JOHN COONRAT		548																					
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<table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WELL LINE RECORD</th> <th>WELL NO.</th> <th>WELL NAME</th> <th>WELL TYPE</th> <th>WELL DEPTH</th> <th>WELL DIRECTION</th> <th>WELL STATUS</th> <th>WELL COMMENTS</th> </tr> </thead> <tbody> <tr> <td>11/25/2012</td> <td>08:00</td> <td>11/25/2012</td> <td>43</td> <td>UNIVERSITY 43 M0509H</td> <td>WELL</td> <td>1000</td> <td>1000</td> <td>1000</td> <td>1000</td> </tr> </tbody> </table>										DATE	TIME	WELL LINE RECORD	WELL NO.	WELL NAME	WELL TYPE	WELL DEPTH	WELL DIRECTION	WELL STATUS	WELL COMMENTS	11/25/2012	08:00	11/25/2012	43	UNIVERSITY 43 M0509H	WELL	1000	1000	1000	1000
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11/25/2012	08:00	11/25/2012	43	UNIVERSITY 43 M0509H	WELL	100																							



<b>Company:</b>	EOG RESOURCES, INC.	<b>Operator:</b>	JOSHUA SMITH
<b>Lease / Well:</b>	UNIVERSITY 43 0906H	<b>Job Number:</b>	SVMO-120100
<b>County/Parish:</b>	IRION COUNTY	<b>Probe Serial #:</b>	123
<b>State:</b>	TEXAS	<b>Proposed Direction:</b>	0
<b>Date:</b>	11/28/2012	<b>Mag. Declination:</b>	6.7 EAST TO GRID
<b>API#:</b>	42-235-35002	<b>Rig / RKB:</b>	PRODUCTION 0 ft
<b>Dir. Company:</b>	N/A	<b>Tie-In From:</b>	N/A
<b>FIELD USE ONLY, DEFINITIVE SURVEY WILL COME FROM MS Survey OFFICES</b>			

TIE-IN Survey					
Measured	Inclination	Azimuth	Vertical	Coordinates	
Depth (ft.)		Bearing	Depth	(+N/-S)	(+E/-W)
0	0.00	0.00	0.00	0.00	0.00

Rate Gyro Survey Report									
Measured	Inclination	Azimuth	Vertical	Vertical	Coordinates		Dog-Leg	Closure	Closure
Depth (ft.)		Bearing	Depth	Section	(+N/-S)	(+E/-W)	/ 100 ft.	Distance	Direction
100	0.99	33.61	100.00	0.72	0.72	0.48	0.99	0.86	33.61°
200	1.07	32.03	199.98	2.23	2.23	1.45	0.08	2.66	33.06°
300	1.65	47.36	299.95	4.00	4.00	3.01	0.68	5.00	36.94°
400	1.41	40.55	399.91	5.91	5.91	4.86	0.30	7.65	39.47°
500	1.43	37.56	499.88	7.83	7.83	6.43	0.08	10.13	39.37°
600	1.02	35.61	599.86	9.54	9.54	7.70	0.41	12.27	38.91°
700	0.78	39.38	699.85	10.79	10.79	8.65	0.25	13.83	38.72°
734	0.81	70.93	733.85	11.05	11.05	9.03	1.27	14.27	39.25°

**DOMESTIC DAILY COST SUMMARY REPORT**

Well: UNIVERSITY 43 #0906H

Report No.: 1

Date: 11/28/2012

CODE	DESCRIPTION	DRILLING COST	COMPLETION COST	PREVIOUS COST	TOTAL COST
230-101	CONDUCTOR CASING	8,000.00	0.00	0.00	8,000.00
230-102	SURFACE CASING	21,611.00	0.00	0.00	21,611.00
230-403	FOOTAGE COST	52,000.00	0.00	0.00	52,000.00
230-407	WATER 230-407	14,504.00	0.00	0.00	14,504.00
230-409	CEMENTING & SERVICE	19,339.00	0.00	0.00	19,339.00
230-415	TRANSPORTATION 230-415	2,000.00	0.00	0.00	2,000.00
230-419	OTHER DRILLING EXPENSE	1,400.00	0.00	0.00	1,400.00
230-436	TUBULAR INSPECTION/HANDLING	1,000.00	0.00	0.00	1,000.00
230-442	WIRELINE SERVICES	6,300.00	0.00	0.00	6,300.00
230-490	IDC CONTINGENCIES	9,654.00	0.00	0.00	9,654.00
<b>TOTAL</b>		<b>\$135,808.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$135,808.00</b>



## DOMESTIC DAILY DRILLING REPORT

RPT No: 1 RPT DATE: 11/28/2012

CREATED: 12/17/2012

\* Represents daily data

WELL: UNIVERSITY 43 #0906H

PROP#: 071369

API#: 42-235-35002

AFE#: 104981

## ACTIVITY:

DIVISION: MIDLAND

FIELD: LIN (WOLFCAMP)

OBJECTIVE:

PROSPECT:

AREA:

COUNTY: IRION

STATE: TX

CLASS: DRIL TYPE: DEVO

SPUD DT:

RIG CON: H&amp;P

RIG PH #:

FOREMAN: MIKE CARTER

TD DATE:

RIG: 434

SAT #:

RIG RELEASE:

PRGS: 797 DSS:

HRS: 18.00 DOL:

\* ROP: 44.28 EDD:

PLAN MD/TVD: 14,505 / 6,730

CURR MD/TVD: 797 / 0

DAY COST: \$135,808

CUM. TO DATE: \$135,808

TP#	BT#	MAKE	SIZE	TYPE	SERIAL	DESIGN	FROM	TO	LGTH	HRS	AVG ROP	NOZZLES 1 - 10	TFA	I - O - D - L - B - G - O - R
1	1	BBL BRIT BIT	12.25	BB430	1234		0	797	797	18.00	44.28	12-12-12-12-12-	- - - 0.66	- - - - - - -

TP#	BT#	RPM	WOB	WOB MIN / MAX	ROT RPM MIN / MAX	PUMP PSR MIN / MAX	MTR RPM	TRQ 1	TRQ 2	PU WT/DPTH	SO WT / DPTH	ROT WT / DPTH
1	1	60	40	30 / 40	40 / 60	400 / 500				/	/	/

TP#	MTR	SERIAL	MANUFACTURER	MTR O.D.	BEND	FIXED / ADJ	LOBES	STGS	RPG	KP / STB / SLK	O.D. KP / STB	BIT TO BEND	CUMM HRS	DIFF PSR
-----	-----	--------	--------------	----------	------	-------------	-------	------	-----	----------------	---------------	-------------	----------	----------

BHA# : 1	DIR / MWD COMPANY:	QTY	LENGTH	O.D.	I.D.	LAST BOP TEST:	CASING	NEXT BOP TEST:			
DESCRIPTION						STRING	DATE	O.D.	FIT / LOT	TOP MD / TVD	BOTTOM MD / TVD
BIT		1	1.30	12.250		SURFACE	1/28/2012	9.625	/	/	797 / 797
SHOCK SUB		1	11.89	8.000	2.250						
STEEL DC		3	87.14	8.000	2.250						
CROSSOVER		1	1.35	6.000	2.250						
STEEL DC		6	182.60	6.250	2.250						

MUD PROPERTIES				HYDRAULICS			
TIME:	12:00	Pf / Mf:	/	STD PIPE:	MAX SSP:	POP OFFS @:	
DEPTH:	400	MBT:					
MW:	8.4	Chl:	400	PUMP#1	PUMP#2	PUMP#3	
VISC:	29	CA:		# CYL:			
PV:	1	HTHP:		SPM:			
YP:	1	ELC STB:		LINER ID:			
10 SEC GEL:	1	OIL:		ROD DIA:			
10 MIN GEL:	1	SOLIDS:		EFF %:			
30 MIN GEL:		WPS:		GPM:			
WL:	100	LCM:		STROKE LGTH:			
pH:	8.4	6 & 3:	&	AV (DP): 0.0	AV (DC): 0.0	JET VEL: 0.0	
Pm:		Ex LIME:		PSI DRP: 0.0	BIT HP: 0.0	HP / in2: 0.0	
MUD LOGGING				SLOW PUMP RATES			
DEPTH:	TRIP GAS:			PUMP#1	PUMP#2	PUMP#3	
BKGD GAS:	CON GAS:						
MAX GAS DPTH:	TEMP IN:						
MAX GAS AMT:	TEMP OUT:						
% LITH/CMNTS:				SPM:			
				PRSR:			

TOTAL BHA LENGTH: 284.28									DISPOSAL		LOSSES		MUD USED	
SURVEYS									Water Based Solids Last 24:		Mud Lost To Cuttings Last 24:		MUD ADDITIVE USED	
MD	ANGLE	DIR.	TVD	V. SECT.	+N/-S	+E/-W	D.L.	CL DST.	Water Based Solids Total:		Mud Lost To Cuttings Total:			
200	1.07	32.03	200	1.82	2.23	1.45	0.08	2.66	Water Based Liquids Last 24:		Mud Lost To Centrifuge Last 24:			
300	1.65	47.36	300	3.66	4.00	3.01	0.68	5.00	Water Based Liquids Total:		Mud Lost To Centrifuge Total:			
400	1.41	40.55	400	5.82	5.91	4.87	0.30	7.65	Oil Based Solids Last 24:		Mud Lost To Formation Last 24:			
500	1.43	37.56	500	7.69	7.83	6.43	0.08	10.13	Oil Based Solids Total:		Mud Lost To Formation Total:			
600	1.02	35.61	600	9.25	9.54	7.71	0.41	12.27	Oil Based Liquids Last 24:		Mud Lost To Formation Total:			
700	0.78	39.38	700	10.40	10.79	8.66	0.25	13.84	Oil Based Liquids Total:		Mud New Hole Volume Last 24:			
734	0.81	70.93	734	10.81	11.05	9.03	1.27	14.27						
KP MD/TVD: / LP MD/TVD: 14,505 / 6,730									FUEL USAGE		WATER			
BIT PROJECTION									Type	Rec	Used	End	Load Last 24:	
FORMATION									Rig			0	Total Loads:	
									Cum	0		0	Start Read:	
MD ANGLE DIR. TVD V. SECT. FORMATION MD / TVD									Mud			0	End Read:	
									Cum	0		0	Used:	

ENVIRONMENTAL											SAFETY		
OP CODE	ACT CODE	EQUIP CODE	VOL >= 50 scf	VOL CO2 / N2 INJECTION	EMISSION / FUEL CODE	UNITS	FUEL AMT	VENT HRS	FLARE HRS	PIPELINE HRS	COMMENTS		
Additional Comments:												Held Meeting Y / N: Y	
												Accidents Y / N: N	
												Incidents Y / N: N	
												Spills Y / N: N	
												JSAs: 1	
												Stop Cards: 0	
												Comments / Details:	
												WEATHER	
												Temp:	
												WD DR / SPD: /	
												Current Conditions:	

**ACTIVITY SUMMARY**RPT No: 1 RPT DATE: 11/28/2012  
CREATED: 12/17/2012

WELL: UNIVERSITY 43 #0906H

PROP#: 071369

API#: 42-235-35002 AFE#: 104981

TOTAL HRS: 24

DRILL ROTATE: 18 / 0

CEMENTING: 6 / 0

START	END	HRS	Ph	Op	FROM	TO	ROP	Activity Last 24 Hours - Operations In Sequence (6 AM - 6 AM)
05:00	23:00	18.00	D	DR				DRILL FROM SURFACE TO 797 FT., POOH, - TEXAS PATERN SHOE, 1 JOINT 9 5/8" 40 PPF, J-55, LT&C CASING, COLLAR, 19 JOINTS 9 5/8" 40 PPF, J-55, LT&C CASING. TOTAL CASING RAN = 801 WASHED DOWN F/ 700 TO 797 SET @ 797 CENTRALIXER MIDDLE OF FIRST JOINT EVERY OTHER JOINT TOTAL 7 CENTRILORS. RR JOB # 13072
23:00	01:00	2.00	D	CM				INSTALL RISING STAR CEMENT HEAD, TEST LINES TO 1500 PSI, PUMP 20 BBL FRESH WATER SPACER, MIX & PUMP 500 SX LEAD, M/P CLASS C 2 % CALC2 CEMENT @ 14.8 PPG, 1.33 YIELD, MIXED WITH 6.34 GAL FRESH WATER. DISPLACED WITH 58 BBL FRESH WATER @ 6 BPM, PUMPED @ 200 PSI. BUMPED PLUG @ 15:31 HRS. PRESSURED UP TO 400 PSI. BLED OFF PRESSURE, FLOAT EQUIPMENT HELD. R.R. COM JOB # 13117, NO RETURNS, TOP JOB, RETURN 5 BBLS OR 21 SACKS OF CEMENT TO SURFACE.
01:00	05:00	4.00	D	CM				WAIT FOUR HOURS CUT OFF CASING AND RIG DOW RIG AND MAKE READY TO MOVE



## CASING AND CEMENTING REPORT

WELLNAME: UNIVERSITY 43 #0906H

WELL ID NO.: 071369

FIELD: LIN (WOLFCAMP)

API NO.: 42-235-35002

CASING STRING: SURFACE

SHOE DEPTH: 797

#CENTRALIZERS: 0

ITEM NAME	JOINTS	FOOTAGE	SIZE	WEIGHT	GRADE	CONNECTION	DEPTH	THREAD
MULE/GUIDE SHOE		1.00					796.00	
CASING	1	42.11					753.89	
FLOAT COLLAR		1.60					752.29	
CASING	21	883.05					-126.76	

TOTAL LENGTH: 927.76

## COMMENTS:

## CEMENTING INFORMATION

STAGE#: 1

START DATE : 11/28/2012

TIME : 14:35

REPORT DATE : 11/28/2012

	<u>*LEAD*</u>		<u>*TAIL*</u>	<u>*LEAD*</u>	
CEMENT TYPE	CLASS C				
CEMENT TOP(estimated)	<u>0</u>	ft		ft	How Verified ?
CEMENT TOP(verified)	<u>0</u>	ft		ft	Visual
SLURRY WEIGHT	<u>14.80</u>	ppg.		ppg	ppg
MIX WATER	<u>6.34</u>	gal/sx		gal/sx	gal/sx
WATER TYPE	FRESH				
YIELD	<u>1.33</u>	ft3/sack		ft3/sack	ft3/sack
SACKS	<u>500</u>	sx		sx	sx
VOLUME	<u>665</u>	cu.ft		cu.ft	cu.ft
THICKENING TIME		hrs.min		hrs.min	hrs.min
FREE WATER					
FLUID LOSS	cc/30min	psi	F	cc/30min	psi
COMP.STRENGTH	psi in		hrs.min	psi in	hrs.min

## RETURNS :

CMT. 21

bbls.

MUD RETURNS: NONEDURATION 0.56

hrs.min

PLUG@BTM

400 hrs:minMAX PUMP PRSR 320

psi

BUMP PRSR 320

psi

PUMP RATE 4

bmp

LEAD ADDITIVES : CLASS C + 2% CACL2+.25% R-38

TAIL ADDITIVES :

COMMENTS : HAD TO DO MTOP JOB WITH 5 BBLS OR 21 SACKS OF CEMENT TO SURFACE



<b>Company:</b> EOG RESOURCES, INC.	<b>Operator:</b> JOSHUA SMITH
<b>Lease / Well:</b> UNIVERSITY 43 0906H	<b>Job Number:</b> SVM0-120100
<b>County/Parish:</b> IRION COUNTY	<b>Probe Serial #</b> 123
<b>State:</b> TEXAS	<b>Proposed Direction:</b> 0
<b>Date:</b> 11/28/2012	<b>Mag. Declination:</b> 6.7 EAST TO GRID
<b>API#:</b> 42-235-35002	<b>Rig / RKB:</b> PRODUCTION 0 ft
<b>Dir. Company:</b> N/A	<b>Tie-In From:</b> N/A
<b>FIELD USE ONLY, DEFINITIVE SURVEY WILL COME FROM MS Survey OFFICES</b>	

TIE-IN Survey					
Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Coordinates (+N/-S) (+E/-W)	
0	0.00	0.00	0.00	0.00	0.00

Rate Gyro Survey Report									
Measured Depth (ft.)	Inclination	Azimuth Bearing	Vertical Depth	Vertical Section	Coordinates (+N/-S) (+E/-W)		Dog-Leg / 100 ft.	Closure Distance	Closure Direction
100	0.99	33.61	100.00	0.72	0.72	0.48	0.99	0.86	33.61°
200	1.07	32.03	199.98	2.23	2.23	1.45	0.08	2.66	33.06°
300	1.65	47.36	299.95	4.00	4.00	3.01	0.68	5.00	36.94°
400	1.41	40.55	399.91	5.91	5.91	4.86	0.30	7.65	39.47°
500	1.43	37.56	499.88	7.83	7.83	6.43	0.08	10.13	39.37°
600	1.02	35.61	599.86	9.54	9.54	7.70	0.41	12.27	38.91°
700	0.78	39.38	699.85	10.79	10.79	8.65	0.25	13.83	38.72°
734	0.81	70.93	733.85	11.05	11.05	9.03	1.27	14.27	39.25°



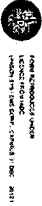


## REPORT NO. BAFEL-EB48-20121126-2C

[illegible]

APPOINT NO. EFFILE848 20121127 15

[illegible]



# DAILY DRILLING REPORT

DATE: 11/28/2012

TIME: 11:00 AM

LOCATION: CAMP UNIVERSITY

WELL NO: 11282012

WELL NAME: BIFLE WATER WELL SERVICE

WELL TYPE: WATER

WELL STATUS: ACTIVE

WELL DEPTH: 11282012

WELL DIAMETER: 11282012

WELL COORDINATES: 11282012

WELL ELEVATION: 11282012

WELL SURFACE: 11282012

WELL CEMENT: 11282012

WELL CASING: 11282012

WELL LOG: 11282012

WELL RECORD: 11282012

WELL DATA: 11282012

WELL ANALYSIS: 11282012

WELL SUMMARY: 11282012

WELL COMMENTS: 11282012

WELL SIGNATURE: 11282012

WELL DATE: 11282012

WELL TIME: 11282012

WELL LOCATION: 11282012

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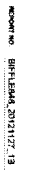
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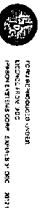
WELL WELLS: 11282012

WELL WELLS: 11282012



REPORT NO. BIF-LEBA8\_20121127\_13

[illegible]



DAILY DRILLING REPORT

REPORT NO. BFTLEAD, 2012118, 20

UNIVERSITY 43  
BFTLE WATERWELL SERVICE  
BFTLE WATERWELL SERVICE  
JOHN COONHART

DATE 11/26/2012  
WELL NO. 11725012  
WELL NAME & NO. UNIVERSITY 43 400804  
COMPANY BFTLE WATERWELL SERVICE  
SUPERVISOR JOHN COONHART  
RIG NO. 548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548

TIME		DATE		WELL NO.		WELL NAME & NO.		COMPANY		SUPERVISOR		RIG NO.	
4.5	17	11/26/2012	11/26/2012	11725012	11725012	UNIVERSITY 43 400804	UNIVERSITY 43 400804	BFTLE WATERWELL SERVICE	BFTLE WATERWELL SERVICE	JOHN COONHART	JOHN COONHART	548	548



Date: 11/28/2012 Time: 8:00  
 Truck Called: 11/28/2012 8:00  
 Arrived at job: 11/28/2012 12:00  
 Start Job: 11/28/2012 14:33  
 Finish Job: 11/28/2012 15:32  
 Leave Location: 11/28/2012 16:30

## Job Log

RISING STAR SERVICES LP.		Customer Name: EOG RESOURCES		Ticket Number: 2012-5196	
P.O. BOX 61193		Lease Name: UNIVERSITY 43			
MIDLAND, TEXAS 79711		Well #: 0906H		Supervisor: DANIEL AGUILAR	
OFFICE # 432-617-0114		Type of Job: 9 5/8 SURFACE		County: IRION	
FAX #432-339-0140		Date: 11/28/2012		CUSTOMER REPRESENTATIVE: JOHN	
Tubing Size:		Casing size:	9.625	Liner size:	
Tubing weight:		Casing weight:	40#	Top of Liner:	
Tubing bbl/linft		Total Depth:	797	Bottom of Liner:	
Retainer depth:		Total Pipe:	801	Annular Volume:	
Packer depth:		Open Hole:	12.25	BHST:	
Perfs:		Shoe Joint:	40	BHCT:	
Holes in casing:		Displacement:	58 bbls	Maximum:	Psi
		Pre-Flush:	20 bbls		
<b>Sks. Cement Additives</b>					
LEAD SLURRY	500	CLASS C + 2% CACL2 + 0.25% R-38			
Cmt. Wt.	14.80	Yield	1.33	Gal/sk	6.34
				Mixing Water:	75.48 :bbls
				Total Ft. <sup>3</sup> :	665.00 ft. <sup>3</sup>
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft. <sup>3</sup> :	ft. <sup>3</sup>
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft. <sup>3</sup> :	ft. <sup>3</sup>
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft. <sup>3</sup> :	ft. <sup>3</sup>
Total sks:	500	sks.	Total Bbls. Cmt.:	118.44	:Bbls
Total Ft. <sup>3</sup> :	665	ft. <sup>3</sup>	Total Mix Water:	75.48	:Bbls
				160.00	:Bbls

## Acid Systems

Acid System:		Gallons				
Diverter:		Balls		Coarse Rock Salt		
Injection Rate:		Job Pressures		<b>Job Log Remarks:</b>		
Time	Rate:	Bbls in	Tbg psi.			Csg psi
8:00						
9:00						
9:45						
10:00						
12:00						
12:05						
12:30						
12:45						
13:00						
13:45						
14:00						
SERVICE REPRESENTATIVE: Signature Please		CUSTOMER REPRESENTATIVE: Signature Please				
DANIEL AGUILAR		X				



**2012-5196**

Lease: UNIVERSITY 43

Well: 0906H

Date \_\_\_\_\_

**Job Log Remarks:**





P.O.Box 61193  
Midland, Texas 79711  
Office# 432-617-0114  
Fax # 432-339-0140

• OIL WELL CEMENTING  
• ACID SERVICES

• TURNKEY ABANDONMENTS  
• FRACTURING SERVICES

## Cement Field Invoice: 2012-5196

Date of Job	11/28/2012	District:	ODESSA	New Well:	<input checked="" type="checkbox"/>	Old Well:	
Customer:	EOG RESOURCES			Well #:	0906H	Lease:	UNIVERSITY 43
Address:				County/ Parrish	IRION	State:	TEXAS
City:				Field:			
Zip Code:				API#:	Mileage: 120		
Contact Person/Company man:	JOHN			Salesman:	JAQUAY WILBURN		
Contact Number:				Service Supervisor:	DANIEL AGUILAR		
Rig Contractor:	BIFFLE WELL SERVICE			Tractor:	Trailer:	Equipment Operators:	
Rig Number:	848			PK1072		DANIEL AGUILAR	
Head & Manifold	VALVE & SWEDGE			T1097	CP3003	JOSE ROMERO	
<b>9 5/8 SURFACE</b>				T1048	CB2017	JOSUE AGUILAR	
Sks/Gals.	<b>Cement Type/Additives</b>			T1026	CB2013	AARON AGUILAR	
500	CLASS C + 2% CACL2 + 0.25% R-38						

Description	Quantity	Cost per Unit	Unit cost after Discount	List of Price of Services	Discounted Price of Services
501-1000", 4 hr minimum	1	\$2,310.00	\$1,501.5000	\$2,310.0000	\$1,501.5000
Data Acquisition	1	\$1,050.00	\$682.5000	\$1,050.0000	\$682.5000
Equipment Mileage	120	\$7.10	\$4.6150	\$852.0000	\$553.8000
Pick-up Mileage Charge	120	\$5.60	\$3.6400	\$672.0000	\$436.8000
Cement Delivery	2883	\$2.25	\$1.4625	\$6,486.7500	\$4,216.3875
Cement Blending	522	\$3.00	\$1.9500	\$1,566.0000	\$1,017.9000
Valve and Swedge	1	\$475.00	\$308.7500	\$475.0000	\$308.7500
Enviornmental Charge	1	\$150.00	\$97.5000	\$150.0000	\$97.5000
Class "C"	500	\$26.00	\$16.9000	\$13,000.0000	\$8,450.0000
Calcium Chloride	940	\$2.00	\$1.3000	\$1,880.0000	\$1,222.0000
Defoamer	2	\$47.25	\$30.7125	\$94.5000	\$61.4250
R-38	118	\$10.30	\$6.6950	\$1,215.4000	\$790.0100

<b>Price Book Total</b>	\$29,751.65
<b>Discount 35%</b>	\$10,413.08
<b>Job Total</b>	<b>\$19,338.57</b>

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions attached including indemnity and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: X

Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt  
Over 30 Days, Discount Voids

Supervisor: **DANIEL AGUILAR**



Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) <b>EOG RESOURCES</b>		2. RRC Operator No.	3. RRC District No.	4. County of Well Site <b>IRION</b>
5. Field Name (Wildcat or Exact as Shown on RRC Records)		6. API No.		7. Drilling Permit No.
8. Lease Name <b>UNIVERSITY 43</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number <b>0906H</b>

CASING CEMENTING DATA		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		11/28/2012					
13. *Drilled Hole Size		12.25					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		9.625					
15. Top of Liner (ft)							
16. Setting Depth (ft)		797					
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out							
1st slurry	19. API Cement Used: No. of Sacks >	500					
	Class >	C					
	Additives >	Remarks # 1					
2nd slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu. ft.) >	665.00					
	Height (ft) >	2115.00					
2nd	Volume (cu. ft.) >						
	Height (ft) >						
3rd	Volume (cu. ft.) >						
	Height (ft) >						
Total	Volume (cu. ft.) >	665.00					
	Height (ft) >	2115					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		NO					
22. Remarks							
REMARKS # 1 CLASS C + 2% CACL2 + 0.25% R-38							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

**CEMENTERS CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**DANIEL AGUILAR**

Name and Title of Cementer's Representative

**RISING STAR SERVICES LP.**

Cementing Company

Signature

**P.O. BOX 61193**

**MIDLAND**

**TX.**

**79711**

**(432) 617-0114**

**NOVEMBER 28 2012**

Address

City

State

Zip Code

Tel. Area Code

Number

Date: Mo. Day Yr.

**OPERATOR'S CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or Printed Name of Operators Representative

Title

Signature

Address

City

State

Zip Code

Tel. Area Code

Number

Date: Mo. Day Yr.

### Instruction to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

**A. What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-16, in addition to Form W-3, to show any casing cemented in the hole.

**B. Where to file.** The appropriate Commission District Office for the county in which the well is located.

**C. Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

**D. Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

**E. Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

**F. Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

**G. Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.



Date:	Time:
Truck Called:	
Arrived at job:	
Start Job:	
Finish Job:	
Leave Location:	

## Job Log

RISING STAR SERVICES L.P.		Customer Name: FELDERHOFF (EOG)		Ticket Number:	
P.O. BOX 61193		Lease Name: UNIVERSITY 43			
MIDLAND, TEXAS 79711		Well #: 0406H		Supervisor: THOMAS PERLEY	
OFFICE # 432-617-0114		Type of Job: 0906 H		County: IRION	
FAX #432-339-0140		Date: 11/30/2012		CUSTOMER REPRESENTATIVE:	
Tubing Size:		Casing size:		Liner size:	
Tubing weight:		Casing weight:		Top of Liner:	
Tubing bbl/lnft		Total Depth:		Bottom of Liner:	
Retainer depth:		Total Pipe:		Annular Volume:	
Packer depth:		Open Hole:		BHST:	
Perfs:		Shoe Joint:		BHCT:	
Holes in casing:		Displacement:	bbls	Maximum:	Psi
		Pre-Flush:	bbls		
Sks.		Cement Additives			
Lead Cement:	42	CLASS C + 2% CACL2 + 0.25% R-38			
Cmt. Wt.	14.80	Yield	1.33	Gal/sk	6.34
				Mixing Water:	6.34 :bbls
				Total Ft.:	55.86 ft.:
Middle Cement:					
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft.:	ft.:
Tail Cement:					
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft.:	ft.:
Cmt. Wt.		Yield		Gal/sk	
				Mixing Water:	:bbls
				Total Ft.:	ft.:
Total sks:	42 sks.	Total Bbls. Cmt.:	9.95	:Bbls	Total Water for Job:
Total Ft.:	56 ft.:	Total Mix Water:		:Bbls	:Bbls

Acid Systems						
Acid System:		Gallons				
Diverter:		Balls		Coarse Rock Salt		
Injection Rate:		Job Pressures		<b>Job Log Remarks:</b> CALL OUT FOR JOB ARRIVE ON LOCATION-SAFETY MEETING-SPOT EQUIP- FLUFF BULK TRUCK- TEST H2O- TEST CONNECTION- RIG UP ON GROUND RIG UP START PUMPING TOP OUT SCALED CEMENT @ 14.8 SHUT DOWN CIRCULATED 6BBLs 21SKs OF CEMENT TO SURFACE		
Time	Rate:	Bbls in	Tbg psi.			Csg psi
18:05						
18:06						
18:09	2	10		150		
18:10						
SERVICE REPRESENTATIVE: Signature Please		CUSTOMER REPRESENTATIVE: Signature Please				
THOMAS PERLEY		X				



P.O.Box 61193  
Midland, Texas 79711  
Office# 432-617-0114  
Fax # 432-339-0140

- OIL WELL CEMENTING
- ACID SERVICES

- TURNKEY ABANDONMENTS
- FRACTURING SERVICES

### Cement Field Invoice:

Date of Job: 11/30/2012 District: Odessa  
Customer: FELDERHOFF (EOG)  
Address:  
City: State:  
Zip Code:  
Contact Person/Company man:  
Contact Number:  
Rig Contractor:  
Rig Number:  
Head & Manifold:

New Well: Old Well: XX  
Well #: 0406H Lease: UNIVERSITY 43  
County/ Parrish: IRION State: TX  
Field:  
API#: Mileage:  
Salesman:  
Service Supervisor: THOMAS PERLEY  
Tractor: Trailer: Equipment Operators:  
T 1097 CP 3003 ERIC SMITHWICK

### TOP OUT

Sks/Gals. Cement Type/Additives  
42 CLASS C + 2% CACL2 + 0.25% R-38

Description	Quantity	Cost per Unit	Unit cost after Discount	List of Price of Services	Discounted Price of Services
-------------	----------	---------------	--------------------------	---------------------------	------------------------------

<b>Price Book Total</b>	\$0.0000
<b>Discount 20%</b>	\$0.0000
<b>Job Total</b>	\$0.0000

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions attached Including Indemnity and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: X

Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt  
Over 30 Days, Discount Voids

Supervisor: THOMAS PERLEY

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-6, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
FELDERHOFF (EOG)			IRION
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.	7. Drilling Permit No.	
8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number
UNIVERSITY 43			0406H

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date		11/30/2012					
13. *Drilled Hole Size		12.250					
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)		9.625					
15. Top of Liner (ft)							
16. Setting Depth (ft)							
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out							
1st slurry	19. API Cement Used: No. of Sacks >	42					
	Class >	CLASS C					
	Additives >	SEE REMARKS					
2nd slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu. ft.) >	55.86					
	Height (ft) >	178.36					
2nd	Volume (cu. ft.) >						
	Height (ft) >						
3rd	Volume (cu. ft.) >						
	Height (ft) >						
Total	Volume (cu. ft.) >	56					
	Height (ft) >	178					
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?		YES					
22. Remarks							
CLASS C + 2% CACL2 + 0.25% R-38							
CIRCULATED 5BBLs 21SKS OF CEMENT TO SURFACE							

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date								
24. Size of Hole or Pipe Plugged (in)								
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)								
27. Slurry Volume Pumped (cu ft.)								
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)								
31. Type Cement								

**CEMENTERS CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**THOMAS PERLEY**

Name and Title of Cementer's Representative

**RISING STAR SERVICES LP.**

Cementing Company

Signature

**P.O. BOX 61193 MIDLAND TX. 79711**

Address City State Zip Code

**(432) 617-0114**

Tel: Area Code Number

**November 30, 2012**

Date: Mo. Day Yr.

**OPERATOR'S CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Typed or Printed Name of Operators Representative

Title

Signature

Address City State Zip Code

Tel: Area Code Number

Date: Mo. Day Yr.

### Instruction to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

**A. What to file.** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

**B. Where to file.** The appropriate Commission District Office for the county in which the well is located.

**C. Surface casing.** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

**D. Centralizers.** Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

**E. Exceptions and alternative casing programs.** The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

**F. Intermediate and production casing.** For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

**G. Plugging and abandoning.** Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

**DOMESTIC DAILY COST SUMMARY REPORT**

Well: UNIVERSITY 43 #0906H

Report No.: 1

Date: 11/28/2012

CODE	DESCRIPTION	DRILLING COST	COMPLETION COST	PREVIOUS COST	TOTAL COST
230-101	CONDUCTOR CASING	8,000.00	0.00	0.00	8,000.00
230-102	SURFACE CASING	21,611.00	0.00	0.00	21,611.00
230-403	FOOTAGE COST	52,000.00	0.00	0.00	52,000.00
230-407	WATER 230-407	14,504.00	0.00	0.00	14,504.00
230-409	CEMENTING & SERVICE	19,339.00	0.00	0.00	19,339.00
230-415	TRANSPORTATION 230-415	2,000.00	0.00	0.00	2,000.00
230-419	OTHER DRILLING EXPENSE	1,400.00	0.00	0.00	1,400.00
230-436	TUBULAR INSPECTION/HANDLING	1,000.00	0.00	0.00	1,000.00
230-442	WIRELINE SERVICES	6,300.00	0.00	0.00	6,300.00
230-490	IDC CONTINGENCIES	9,654.00	0.00	0.00	9,654.00
<b>TOTAL</b>		<b>\$135,808.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$135,808.00</b>



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 1

Report For 06:00 AM 03-Nov-16

Operator: SEM OPERATING			Rig: H&P 499		Spud Date:		Daily Cost / Mud (\$): 22,770 / 0					
Measured Depth (ft):			Drilling Days (act.): 1		Well Bore: Original Well Bore		AFE No.		AFE (\$)		Actual (\$)	
Vertical Depth (ft):			Drilling Days (plan):		RKB Elevation (ft): 0.00		102516		4,896,809		22,770	
Proposed TD (ft):			Days On Location: 1		Last BOP Test:							
Hole Made (ft) / Hrs: 0 / 0.0			Last Casing:				Totals:		4,896,809		22,770	
Average ROP (ft/hr):			Next Casing:		Working Interest:		Well Cost (\$):				22,770	
Pers/Hrs:	Operator:	2 / 40	Contractor:	16 / 320	Service:	4 / 80	Other:	13 / 260	Total:	35 / 700		

**SafetySummary:** No incidents or events reported. 0 day since LTI. Conducted Safety Meeting.

**Current Operations:** MOVE IN RIG UP

**Planned Operations:** RIG UP

**Wellsite Supervisors:** BRUCE DELAUGHTER, GUY EMBRY

**Tel No.:** 325-500-0663

### Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
10:30	17:00	6.50		RIGD	HELD SAFETY MEETING WITH H&P AND GRIDER CREWS , SKID RIG AND PIN TO MUD BOAT, RIG DOWN LOAD OUT ROAD WASH AND MOVE DIESEL TANK, GENS, VFD, MUD PUMPS, PITS, RIG DOWN FLOOR	
17:00	22:00	5.00		RIGD	HELD S-M, LOWER DERRICK AND PIN TO BOGEYS , LOWER RACKING BOARD, SPLIT DERRICK, ROAD WASH AND MOVE TO NEW LOCATION,	
22:00	6:00	8.00		RIGD	WASH AND LOWER SUB BASE, SPLIT SUB AND MOVE AWAY FROM WELL HEAD	

### Management Summary

06:00 TO 10:30 UNIVERSITY LUCY 0105H RIG RELEASE AT 10:30 ON 11-2-16--- 10:30 TO 06:00 ---11-3-16 ON UNIVERSITY 43 0906 H

### Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	0	0	22,770	22,770	0.46 %
Totals \$:		4,896,809	0	0	22,770	22,770	0.46 %

### Safety Information

Meetings/Drills	Time	Description				
Safety	30	RIG DOWN , LOWER DERRICK,				
First Aid Treatments:		Medical Treatments:		Lost Time Incidents:	Days Since LTI:	0
<input type="checkbox"/> BOP Test	<input type="checkbox"/>	Crownamatic Check				





# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 2

Report For 06:00 AM 04-Nov-16

Operator:	SEM OPERATING	Rig:	H&P 499	Spud Date:		Daily Cost / Mud (\$):	30,342 / 0
Measured Depth (ft):	795	Drilling Days (act.):	2	Well Bore:	Original Well Bore	AFE No.	AFE (\$)
Vertical Depth (ft):	795	Drilling Days (plan):		RKB Elevation (ft):	0.00	102516	4,896,809
Proposed TD (ft):		Days On Location:	2	Last BOP Test:			53,112
Hole Made (ft) / Hrs:	795 / 0.0	Last Casing:				Totals:	4,896,809
Average ROP (ft/hr):		Next Casing:		Working Interest:		Well Cost (\$):	53,112
Pers/Hrs:	Operator: 2 / 40	Contractor:	11 / 220	Service:	1 / 24	Other:	0 / 0
						Total:	14 / 284

**SafetySummary:** No incidents or events reported. 1 day since LTI. Conducted Safety Meeting.

**Current Operations:** TROUBLE SHOOT FIBER OPTICS TO RIG, CONT RIG UP, NEED CRANE TO PICK UP PIT TO LINE UP EQUALIZER LINE TO MP

**Planned Operations:** CONT RIG UP, N-UP BOPS

**Wellsite Supervisors:** BRUCE DELAUGHTER, GUY EMBRY

**Tel No.:** 325-500-0663

### Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	18:00	12.00		RIGU	RIG UP PITS , SOLIDS CONTROL EQUIP, SPOT OBM FRAC TANKS, TRANSFER OBM, CLEAN OLD LOCATION, MOVE CAMP, RAISE DERRICK	
18:00	6:00	12.00		RIGU	PULL WIRES, CONNECT LINES, FIRE UP GENERATORS, 100% MOVED, 80% RIGGED UP	

### Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	0	0	30,342	53,112	1.08 %
Totals \$:		4,896,809	0	0	30,342	53,112	1.08 %

### Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	0	0	4,575	4,575	4,575

### Safety Information

Meetings/Drills	Time	Description
Safety	30	RIGGING UP
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI:	1	
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 3

Report For 06:00 AM 05-Nov-16

Operator: SEM OPERATING			Rig: H&P 499		Spud Date:		Daily Cost / Mud (\$): 146,021 / 0			
Measured Depth (ft): 795			Drilling Days (act.): 3		Well Bore: Original Well Bore		AFE No. AFE (\$) Actual (\$)			
Vertical Depth (ft): 795			Drilling Days (plan):		RKB Elevation (ft): 26.20		102516 4,896,809 198,652			
Proposed TD (ft):			Days On Location: 3		Last BOP Test:					
Hole Made (ft) / Hrs: 0 / 0.0			Last Casing:				Totals: 4,896,809 198,652			
Average ROP (ft/hr):			Next Casing:		Working Interest:		Well Cost (\$): 198,652			
Pers/Hrs:	Operator:	2 / 40	Contractor:	11 / 220	Service:	9 / 108	Other:	0 / 0	Total:	22 / 368

SafetySummary: No incidents or events reported. 2 days since LTI. Conducted Safety Meeting.

Current Operations: TRANSFER 9.1 PPG MUD FROM FRAC TANKS TO ACTIVE TO CUT MUD WT BACK TO 8.6 PPG BATCH #2 INSTALL FLARE AND PANIC LINES AND PREPARE TO INSTALL BOP'S

Planned Operations: INSTALL BOP NIPPLE UP AND TEST SAME , CONT CUT MUD WT WITH BOS SOLIDS CONTROL EQUIP

Wellsite Supervisors: BRUCE DELAUGHTER, GUY EMBRY

Tel No.: 325-500-0663

## Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	18:00	12.00	850	RIGU	RIGGING UP MUD PITS, REPAIR FIBER OPTIC LINE TO RIG FLOOR, FILL PITS WITH OIL BASE MUD AND START CUTTING WEIGHT BACK WITH BOS EQUIPMENT	
18:00	2:00	8.00	850	RIGU	RIG UP CLIMB ASSIST, UNPIN BOOM POLES, RIG UP MUD LINES F/ MCC TO RIG FLOOR , UNPIN BLOCKS, CHK OIL AND SAVER SUB ON TOP DRIVE ADD HYD OIL, TO TOP DRIVE, FINISH RIGGING UP FLOWLINE AND GASBUSTER M-UP STAND PIPE, CUT MUD WT. F/ 9.1 PPG TO 8.6 PPG WITH BOS CENTRIFUGES,	
2:00	6:00	4.00	850	RIGU	RIG UP FLARE AND PANIC LINESTRANSFER 8.7 MUD F/ ACTIVE TO FRAC TANK , TRANSFER HEAVY MUD F/ FRAC TANKS TO ACTIVE TO CUT BACK TO 8.6 MWT 500 BBLS HAVE BEEN CUT PROCESSING SECOND 500 THRU BOS CENTRIFUGE, PREPARE TO INSTALL BOP	

## Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	0	0	146,021	198,652	4.06 %
Totals \$:		4,896,809	0	0	146,021	198,652	4.06 %

## Rig Information

Equipment Problems: BOS CENTRIFUGE NOT WORKING DUE TO ROTATION BACKWARDS , 3 HRS CHG ROTATION, BOS EQUIP NOT WORKING DUE TO GENERATOR FAILURE, HAD REPLACEMENT GEN SENT OUT , 3 HOURS DOWN

Location Condition: GOOD

Transport:

## Solids Control Information

## Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	5,250	512	7,060	11,798	6,548
Mud	GALS	0	0	7,057	7,057	7,057

## Safety Information

Meetings/Drills	Time	Description
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Safety	30	PERSONEL HOISTING, PROPER LIFTING
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First Aid Treatments:	Medical Treatments:	Lost Time Incidents:	Days Since LTI:	2
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 3

Report For 06:00 AM 05-Nov-16

## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
<b>Notes:</b> Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
<b>Notes:</b> LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
<b>Notes:</b> Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
<b>Notes:</b> PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
<b>Notes:</b> THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
<b>Notes:</b> PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
<b>Notes:</b> KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
<b>Notes:</b> Rental Express							

Total Daily Rental Cost \$: 925

**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 4

Report For 06:00 AM 06-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		34,658 / 0									
Measured Depth (ft):		797		Drilling Days (act.):		4		Well Bore:      Original Well Bore		AFE No.		AFE (\$)		Actual (\$)							
Vertical Depth (ft):		797		Drilling Days (plan):				RKB Elevation (ft):      26.20		102516		4,896,809		233,310							
Proposed TD (ft):				Days On Location:		4		Last BOP Test:													
Hole Made (ft) / Hrs:		0 / 0.0		Last Casing:						Totals:		4,896,809		233,310							
Average ROP (ft/hr):				Next Casing:				Working Interest:		Well Cost (\$):		233,310									
Pers/Hrs:		Operator:		2 / 40		Contractor:		11 / 220		Service:		9 / 108		Other:		0 / 0		Total:		22 / 368	

SafetySummary: No incidents or events reported. 3 days since LTI. Conducted Safety Meeting.

Current Operations: PICK UP DRILL PIPE TIH TO 740'

Planned Operations: DRILL OUT FLOAT AND SHOE , DISPLACE TO OBM

Wellsite Supervisors: BRUCE DELAUGHTER, GUY EMBRY

Tel No.: 325-500-0663

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	13:00	7.00	850	BOPNU	ACCEPT RIG AS RIGGED UP @ 0600 HOURS, SAFETY MEETING ABOUT NIPPLE UP BOP, SET BOP IN HANDLER AND INSTALL GRATING AROUND WELL, BREAK OFF DSA AND OLD SPOOLS, REPLACE WITH NEW SPOOLS AND TORQUE UP BOLTS, SET ON WELL HEAD AND TORQUE, HOOK UP LINES ON KOOMEY UNIT, FUNCTION TEST BOP	
13:00	20:30	7.50	850	BOPT	TEST BOP, ALL LINES BACK TO PUMP TO 250 PSI LOW 5,000 PSI HIGH, TEST HYDRIL TO 3,500K, TEST ALL CHOKE VALVES TO 5,000K AND TEST PIPE RAMS AND BLIND RAMS TO 250 PSI LOW 5,000, HIGH TEST 9 5/8" CASING TO 1,500 PSI FOR 30 MIN	
20:30	3:00	6.50	850	BOPO	INSTALL FLOWLINE, TURN BUCKELS; KILL LINE, KATCH KAN REP INSTALL POLLUTION PAN AND TARPS ON BOP WHILE BOS INSTALLED NEW MOTOR ON CENTRIFUGE	
3:00	5:30	2.50	850	BHAOP	PICK UP AND M-UP DIRECTIONAL BHA SCRIBE MOTOR, INSTALL MWD, TEST MOTOR, M-UP BIT	
5:30	6:00	0.50	850	TRPI	PICK UP DP TIH TO 740'	

**Cost/AFE Information**

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	0	0	34,658	233,310	4.76 %
Totals \$:		4,896,809	0	0	34,658	233,310	4.76 %

**Bit/BHA/Workstring Information**

				Depth	This Run	R.O.P.				Mud				Pump							
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HHP	JIF		
1	1	ULTERI	U619M	8.750	795								9								
Jets: 14 14 14 14 14				Out:		Grade: Cutter:		/		Dull:		/		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 1 - BIT, MMTR, STAB, UBHO, 2 NMDC, STAB = 104.54																					

**Rig Information**

Equipment Problems: BOS CENTRIFUGE MOTOR DOWN, BOS SENT REPLACEMENT TO LOC, AND INSTALLED SAME BOTH CENTRIFUGES BACK UP AND RUNNING

RIG CREW HAD TROUBLE CONNECTING FLOW LINE DUE TO SAND AND CUTTINGS PACKED IN FLOW LINE SLIP JOINT

Location Condition: GOOD

Transport:

**Bulk Inventory**

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	11,798	692	0	11,106	-692
Mud	GALS	7,057		0	7,057	
Fuel	GALS	475	100	0	375	-100



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 4

Report For 06:00 AM 06-Nov-16

## Safety Information

Meetings/Drills	Time	Description
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Safety	30	TESTING BOP, HANDLING BHA
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First Aid Treatments:	Medical Treatments:	Lost Time Incidents:	Days Since LTI:	3
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rrental Express							

Total Daily Rental Cost \$: 925



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 5

Report For 06:00 AM 07-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		43,187 / 13,797									
Measured Depth (ft):		4462		Drilling Days (act.):		5		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		4443		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		276,497					
Proposed TD (ft):				Days On Location:		5		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		3,665 / 18.0		Last Casing:								Totals:		4,896,809		276,497					
Average ROP (ft/hr):		203.61		Next Casing:				Working Interest:				Well Cost (\$):				276,497					
Pers/Hrs:		Operator:		2 / 40		Contractor:		11 / 220		Service:		9 / 108		Other:		0 / 0		Total:		22 / 368	

SafetySummary: No incidents or events reported. 4 days since LTI. Conducted Safety Meeting.

Current Operations: DRILLING 8.75" VERTICAL HOLE AT 4462'

Planned Operations: CONT TO DRLG TO KICK OFF POINT AT 6185'

Wellsite Supervisors: BRUCE DELAUGHTER, GUY EMBRY

Tel No.: 325-500-0663

## Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	8:00	2.00	797	BHAOP	STARTED PICKING UP BHA, THUNDERSTORM SHUT DOWN RIG FROM 0615 TO 0645, TOTCO OUT, TECH CALLED OUT TO REPLACE BOX	
8:00	9:00	1.00	797	DPPU	MAKE UP 5 STANDS OF DRILL PIPE AND RACK IN DERRICK	
9:00	9:30	0.50	797	SERV	SERVICE RIG	
9:30	11:30	2.00	826	BHAOP	PICK UP AND RUN IN HOLE HEAVY WEIGHT DRILL PIPE AND TAG FLOAT @ 782', SHOE @ 826' AND DRILL OUT WITH FRESH WATER 5' PAST SHOE AND DISPLACE WITH OIL BASE MUD, 8.7#	
11:30	14:00	2.50	945	DRILR	ROTATE DRILL FROM 826' TO 945', WOB 25, DIFF 600, PSI 1,350, TQ 4, GPM 413, RPM 40	
14:00	2:00	12.00	3,641	DRILR	ROTATE DRILL FROM 945' TO 3641, WOB 30, DIFF 600, PSI 3,200, TQ 5, GPM 584, RPM 80, CIRCULATING 2 MINUTES BETWEEN CONNECTIONS TO HELP WITH HOLE CLEANING	
2:00	2:30	0.50	3,656	DRILS	SLIDE DRILL FROM 3641' TO 3656', WOB 10, DIFF 250, PSI 2900, GPM 584,	
2:30	3:30	1.00	3,935	DRILR	ROTATE DRILL FROM 3656' TO 3935', WOB 25, DIFF 900, PSI 3950, TQ 8, GPM 584, RPM 60	
3:30	4:00	0.50	3,935	CIRC	CIRC DUE TO CAMP GEN SHUT DOWN	X
4:00	6:00	2.00	4,462	DRILR	ROTATE DRILL FROM 3935' TO 4462' WOB 25, DIFF 900, PSI 3950, TQ 8, GPM 584, RPM 60	

## Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	13,797	13,797	43,187	276,497	5.65 %
Totals \$:		4,896,809	13,797	13,797	43,187	276,497	5.65 %

## Mud Information

																%			Gels			Temp		Mud
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss				
06-Nov-16 21:00 at Depth 2,361 ft Return Flow Line																								
8.70	70	17	8	11.2	2		4.5	63	37			64000		250	5	7	8		92					

## Mud Consumables

Item Description	Qty.	Cost	Item Description	Qty.	Cost
ABS MUL - GALS	100	935	AES WA II - GALS	100	898
CaCL2 - 50#SK	100	1,463	ENGINEER - DAY	1	800
Forklift - EA	1	150	Lime - 50#SK	15	109
Trucking (CWT) - EA	710	2,130			

## Bit/BHA/Workstring Information

				Depth	This Run		R.O.P.							Mud	Pump					
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HPH	JIF	
1	1	ULTER	U619M	8.750	797	3,663	18.5	198.0					9	590	4000	210	343	118	558	
Jets: 14 14 14 14 14					Out:		Grade: Cutter:		/	Dull:		/	Wear:		Brgs:	Gge:	Pull:			
BHA - No. 1 - BIT, MMTR, STAB, UBHO, 2 NMDC, STAB = 104.54																				



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 5

Report For 06:00 AM 07-Nov-16

## Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure (psi)
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
797	945			25	25	30	30	4	4	400	400	1,350
Annular Velocity:		Drill Collars:		Drill Pipe:		190.1						
945	3,825			20	25	60	60	4	6	585	585	3,900
Annular Velocity:		Drill Collars:		Drill Pipe:		278.1						
3,825	4,462			25	25	60	60	5	5	585	585	3,900
Annular Velocity:		Drill Collars:		Drill Pipe:		278.1						

## Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	141,000	Pick Up:	146,000	Slack Off:	135,000	Drag Avg/Max:	5000 / 6000
Hours on BHA:	Since Inspection:	17	Total:	17	Jars:			
Hours on Casing/Liner:	Rotating:	17 /	Tripping:	1 /			<input type="checkbox"/> Wear Bushing Installed	

## Survey Information

Survey Type	Meas. Depth		Inc.	Azimuth	TVD	Closure	Vertical Section	Coordinates		
								N-S	E-W	D.L.S.
MWD	755.2	0.81		70.9	755.2	5.3	1.7	N 1.7	E 5.0	0.107
MWD	864.0	1.80		83.9	863.9	7.8	2.2	N 2.2	E 7.5	0.944
MWD	1,048.0	1.90		82.6	1,047.8	13.7	2.9	N 2.9	E 13.4	0.059
MWD	1,236.0	1.50		100.8	1,235.8	19.1	2.8	N 2.8	E 18.9	0.355
MWD	1,425.0	1.20		301.0	1,424.7	19.9	3.4	N 3.4	E 19.6	1.407
MWD	1,614.0	1.40		297.0	1,613.7	16.8	5.4	N 5.4	E 15.9	0.116
MWD	1,802.0	2.00		253.6	1,801.6	12.0	5.6	N 5.6	E 10.7	0.731
MWD	1,990.0	1.80		240.9	1,989.5	5.9	3.2	N 3.2	E 4.9	0.247
MWD	2,179.0	1.50		230.9	2,178.4	0.5	0.2	N 0.2	E 0.4	0.219
MWD	2,367.0	1.10		211.3	2,366.4	3.8	-2.9	S 2.9	W 2.4	0.315
MWD	2,556.0	0.70		185.5	2,555.4	6.6	-5.6	S 5.6	W 3.5	0.296
MWD	2,745.0	0.60		132.0	2,744.4	7.9	-7.4	S 7.4	W 2.9	0.313
MWD	2,933.0	0.90		115.7	2,932.3	8.7	-8.7	S 8.7	W 0.8	0.194
MWD	3,122.0	0.50		118.6	3,121.3	9.8	-9.8	S 9.8	E 1.3	0.212
MWD	3,311.0	0.80		274.1	3,310.3	10.1	-10.1	S 10.1	E 0.7	0.673
MWD	3,499.0	2.70		285.7	3,498.2	10.0	-8.8	S 8.8	W 4.9	1.023
MWD	3,688.0	0.90		277.9	3,687.1	12.9	-7.4	S 7.4	W 10.6	0.959
MWD	3,876.0	1.00		297.2	3,875.1	15.0	-6.4	S 6.4	W 13.6	0.177
MWD	4,065.0	0.40		95.6	4,064.1	15.5	-5.7	S 5.7	W 14.4	0.730
MWD	4,254.0	1.10		106.7	4,253.1	13.5	-6.3	S 6.3	W 12.0	0.377

## Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas		Drilling Exp.	Pore Press	Mud Dens.	Shale Dens.	ROP	
From	To	From	To	Avg	Max	at Depth	Connect. Trip					Shale	Sand
797	3,980	797	3,978	188	369	3980	338			8.70		337	
Formation Name: CLEARFORK													
Lithology: 70% SHALE, 30% LIMESTONE @ 3980'													

## Rig Information

Equipment Problems:

Location Condition:

Transport:

## Bulk Inventory

Item Type		Units	Beginning	Used	Received	On Hand	Net
Fuel		GALS	11,106	1,843	0	9,263	-1,843
Mud		GALS	7,057	2,028	4,905	9,934	2,877
Fuel		GALS	375	100	0	275	-100



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 5

Report For 06:00 AM 07-Nov-16

## Safety Information

Meetings/Drills	Time	Description
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Safety	30	MAKING CONNECTIONS
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First Aid Treatments:	Medical Treatments:	Lost Time Incidents:	Days Since LTI:	4
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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## Weather Information

Sky Condition:	PARTLY CLOUDY	Visibility:	5
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Air Temperature:	63 degF	Bar. Pressure:	
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Wind Speed/Dir:	0 /	Wind Gusts:	0
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**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 6

Report For 06:00 AM 08-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):			71,839 / 11,695								
Measured Depth (ft):		6185		Drilling Days (act.):		6		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		6182		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		348,337					
Proposed TD (ft):				Days On Location:		6		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		1,723 / 10.5		Last Casing:								Totals:		4,896,809		348,337					
Average ROP (ft/hr):		164.1		Next Casing:				Working Interest:				Well Cost (\$):				348,337					
Pers/Hrs:		Operator:		2 / 40		Contractor:		11 / 220		Service:		9 / 108		Other:		0 / 0		Total:		22 / 368	

SafetySummary: No incidents or events reported. 5 days since LTI. Conducted BOP Drill, Safety Meeting.

Current Operations: RELOG MISSED GAMA AT 5514

Planned Operations: KICK OFF AND DRLG CURVE

Wellsite Supervisors: BRUCE DELAUGHTER, GUY EMBRY

Tel No.: 325-500-0663

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	16:30	10.50	6,185	DRILR	ROTATE DRILL FROM 4,462' TO 6,185, WOB 20, TQ 8, PSI 3,850, DIFF 800, RPM 40, GPM 580, TD INTERMEDIATE AT KOP 6,185'	
16:30	18:00	1.50	6,185	CIRC	CIRCULATE AND CLEAN HOLE, PUMP SWEEP BEFORE POOH TO PICK UP CURVE TOOLS	
18:00	20:30	2.50	6,185	TRPO	TOOH TO BHA REMOVE ROTATING HEAD	
20:30	23:30	3.00	6,185	BHAOP	LAY DOWN STRAIGHT HOLE ASSY PICK UP CURVE BHA SCRIBE AND TEST SAME	
23:30	0:00	0.50	6,185	TRPI	TIH WITH CURVE ASSY TO CSG SHOE	
0:00	0:30	0.50	6,185	SERV	SERVICE RIG	
0:30	1:00	0.50	6,185	REPR	REPLACE OFF DRILLERS SIDE TUGGER LINE	X
1:00	3:30	2.50	6,185	TRPI	TIH TO 5000' INSTALL ROTATING HEAD	
3:30	6:00	2.50	6,185	OTHER	TIH RELOG MISSED GAMA F/ 5000' TO 5514'	X

**Management Summary**

DYNAMAX MOTOR , 2.38 DEG. BEND, 6:7 LOBE, 5 STAGE, 4.5 FT. BIT TO BEND, .31 RPG

**Cost/AFE Information**

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	11,695	25,492	71,839	348,337	7.11 %
Totals \$:		4,896,809	11,695	25,492	71,839	348,337	7.11 %

**Mud Information**

%																					Gels			Temp		Mud
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss						
07-Nov-16 23:00 at Depth 6,185 ft Return Flow Line																										
8.80	65	17	9	11	2		5.5	64	36			63000		250	6	8	9									

**Mud Consumables**

Item Description			Qty.	Cost	Item Description			Qty.	Cost
ABS MUL - GALS			100	935	AES VIS III - GALS			6	492
AES VIS LS (50) - 50#SK			2	183	AES WA II - GALS			100	898
CaCL2 - 50#SK			50	732	ENGINEER - DAY			1	800
Lime - 50#SK			30	218	Mil-Sorb - 50#SK			9	126

**Bit/BHA/Workstring Information**

Log																				
					Depth	This Run		R.O.P.			Mud				Pump					
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HPH	JIF	
1	1	ULTERI	U619M	8.750	797	5,388	27	199.6	200.0	25	230	7	9	590	3200	210	347	119	564	
Jets: 14 14 14 14 14 14					Out: 6185		Grade: Cutter:		1 / 1		Dull: NO / NO		Wear: A		Brgs: X		Gge: 0		Pull: BHA	
2	1	ULTERI	U516M	8.750	6185								9	590	3700	193	293	101	518	
Jets: 16 16 16 16 16					Out:		Grade: Cutter:		/		Dull: /		Wear:		Brgs:		Gge:		Pull:	
BHA - No. 2 - BIT. MMTR. UBHO. 2 NMDC. 33 DP. 30 HWDP = 2028.99																				



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 6

Report For 06:00 AM 08-Nov-16

### Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure (psi)
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
4,462	6,185			25	25	60	60	8	8	580	580	4,000

Annular Velocity: Drill Collars: Drill Pipe: 275.7

### Miscellaneous Drilling Parameters

Hook Loads (lbs):	Off Bottom Rotate:	Pick Up:	Slack Off:	Drag Avg/Max:	/
Slow Circulation Data:					
Pump 2:	30 spm	190 psi	40 spm	265 psi	50 spm 340 psi
Pump 3:	30 spm	180 psi	40 spm	265 psi	50 spm 350 psi

### Mud Log Information

Depth (ft)		TVD (ft)		Gas (Units)		Gas Connect.	Trip	Drilling Exp.	Pore Press	Mud Dens.	Shale Dens.	ROP	
From	To	From	To	Avg	Max							Shale	Sand
3,980	6,185	3,978	6,183	421	727	6185	651	0		8.80			

Formation Name: CLEARFORK

Lithology: 6185' 60% SHALE, 40% LIMESTONE

### Rig Information

Equipment Problems: CHG OUT OFF DRILLERS SIDE TUGGER LINE

Location Condition: GOOD

Transport:

### Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	9,263	1,948	0	7,315	-1,948
Mud	GALS	9,934	3,151	4,270	11,053	1,119
Fuel	GALS	275	0	0	275	0

### Safety Information

Meetings/Drills	Time	Description
Safety	30	TRIPPING , MAKING CONNECTIONS, SUSPENDED LOADS
BOP	2	BOP DRILL RESPONSE TIME 1 MIN 11 SEC
First Aid Treatments:		Medical Treatments:
Lost Time Incidents:		Days Since LTI: 5
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

### Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Clean	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm transfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 6

Report For 06:00 AM 08-Nov-16

## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
<b>Notes:</b> KATCH KAN							
Steam Clean	screen washer	011	OTHER	9240-01	70	05-Nov-16	
<b>Notes:</b> Rental Express							
Total Daily Rental Cost \$:					925		



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

Job ID: Original

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 7

Report For 06:00 AM 09-Nov-16

Operator:	SEM OPERATING	Rig:	H&P 499	Spud Date:	Daily Cost / Mud (\$): 114,491 / 4,154			
Measured Depth (ft):	7115	Drilling Days (act.):	7	Well Bore:	Original Well Bore	AFE No.	AFE (\$)	Actual (\$)
Vertical Depth (ft):	6781	Drilling Days (plan):		RKB Elevation (ft):	26.20	102516	4,896,809	465,358
Proposed TD (ft):		Days On Location:	7	Last BOP Test:	06-Nov-16			
Hole Made (ft) / Hrs:	930 / 14.0	Last Casing:				Totals:	4,896,809	465,358
Average ROP (ft/hr):	66.43	Next Casing:		Working Interest:		Well Cost (\$):		465,358
Current Ops:	tih with lateral assy							
Planned Ops:	tih drlg lateral f/ 7115							
Toolpusher:				Supervisors:				Tel No.: 325-500-0663
Comments:								

### Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	8:00	2.00	6,185	WASH	wash down 5550' to 6185' relog gamma	
8:00	15:30	7.50	6,745	DRILS	Slide- Drill from 6185ft to 6745 ft on bttm psi 3900 @ 180 spm,595 gpm tf high side	...
15:30	16:00	0.50	6,745	SERV	service rig	
16:00	18:30	2.50	6,933	DRILS	Slide- Drill from 6745 ft to 6933 ft on bttm psi 3900 @ 180 spm,595 gpm tf high	...
18:30	19:30	1.00	7,000	DRILR	Rotate- Drill from 6933 ft to 7000 ft wob=25, diff=900, gpm=597, psi=4000	
19:30	21:30	2.00	7,070	DRILS	Slide- Drill from 7000 ft to 7070 ft diff=900, gpm=597, psi=4000 tf=180	
21:30	22:00	0.50	7,075	DRILR	Rotate- Drill from 7070 ft to 7075 ft wob=25, diff=900, gpm=597, psi=4000	
22:00	22:30	0.50	7,115	DRILS	Slide- Drill from 7075 ft to 7115 ft diff=900, gpm=597, psi=4000 tf=180 curve	...
22:30	0:00	1.50	7,115	CIRC	pump sweep circ hole clean pump slug	
0:00	2:30	2.50	7,115	TRPO	tooh f/ 7115' to bha remove rotating head, no drag thru curve	
2:30	5:00	2.50	7,115	BHAOP	drain motor break bit remove mwd, l-dn motor p-up lateral mtr scribe, install,	...
5:00	6:00	1.00	7,115	TRPI	tih with lateral assy	

### Bit/BHA Information

No/Run		Make	Model	Diam	Jets 1-4				Dist	Hrs	ROP	WOB	RPM	Torq	MudWt	Flow	Press	J.Vel	P.Drp	HHP	JIF		
2	1	ULTER	U516M	8.750	16	16	16	16	930	14.5	64.1	25,000	187		8.80	597	4,000	195	300	104	531		
DepthOut:		7,115		Cutter:Inner/Outer:				1/1		Dull:Maj/Oth:				NO/NO		WearLoc:		A	Brgs: X		Gauge: 0		Pull: BHA

BHA - No. 2 - BIT, MMTR, UBHO, 2 NMDC, 33 DP, 30 HWDP = 2028.99

### Mud Reports

Date/Time	Dens.	Vis.	PV	YP	Filt.	Cake	pH	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	Gels	Temp In/Out
08-Nov-16 12:00	8.80	64	16	9	11	2		5.6	64	36			64000		250	6 / 8 / 9	116/
08-Nov-16 22:00	8.80	63	17	8	11.6	2		5.5	64	36			64000		250	6 / 8 / 9	118/

### Drilling Parameters

Depth	ROP Av/Mx	WOB	RPM	Torque	Flow	AV:DC	AV:DP	Press.
6185-7115	64.1 / 64.1	20,000	187		597		283.8	4000

### Mud Log

Depth	Gas:Back	Max	Conn	Trip	Pore Pres.
6185-7115	236	735	779	0	

Lithology: 100% shale @ 7115'

### Inventory

Item	Used	Invent.	Item	Used	Invent.
FUEL	1147	6,168	DIESEL	1675	9,378
FUEL	50	225			

### Safety Information

LTI:	Days Since:	6
Med:	1st Aid:	
Accident Description:		
Oper:	2	Cont: 11
Serv:	9	Othr: 0
Total Personnel:	22	Hours: 368

### Environment

Cum. Water Hauled: 0.000 acre-ft

### Rig/Weather Information

Equipment Problems: NONE

Location Condition: GOOD

Transport Status:

No Weather Information for this report.

**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

Job ID: Original

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

**Report No: 8****Report For 06:00 AM 10-Nov-16**

<b>Operator:</b>	SEM OPERATING	<b>Rig:</b>	H&P 499	<b>Spud Date:</b>	<b>Daily Cost / Mud (\$):</b> 46,226 / 4,154			
<b>Measured Depth (ft):</b>	10000	<b>Drilling Days (act.):</b>	8	<b>Well Bore:</b>	Original Well Bore	<b>AFE No.</b>	<b>AFE (\$)</b>	<b>Actual (\$)</b>
<b>Vertical Depth (ft):</b>	6781	<b>Drilling Days (plan):</b>		<b>RKB Elevation (ft):</b>	26.20	102516	4,896,809	511,584
<b>Proposed TD (ft):</b>		<b>Days On Location:</b>	8	<b>Last BOP Test:</b>	06-Nov-16			
<b>Hole Made (ft) / Hrs:</b>	2,885 / 19.5	<b>Last Casing:</b>				<b>Totals:</b>	4,896,809	511,584
<b>Average ROP (ft/hr):</b>	147.95	<b>Next Casing:</b>		<b>Working Interest:</b>		<b>Well Cost (\$):</b>		511,584
<b>Current Ops:</b>	Drilling ahead @ 10,000'							
<b>Planned Ops:</b>	Drill 8 3/4 lateral section							
<b>Toolpusher:</b>				<b>Supervisors:</b>			<b>Tel No.:</b> 325-500-0663	
<b>Comments:</b>								

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	9:30	3.50	7,115	TRPI	trip in hole f/1536'-6995 pick up 24 jts dp off rack	
9:30	10:00	0.50	7,115	WASH	wash to bottom 6995-7115	
10:00	16:00	6.00	8,042	DRILR	Rotate & Slide Drill from 7115 ft to 8042 ft wob-30 rotary rpm 70 tq 10 k psi 4300 @ 603 gpm diff 900	
16:00	16:30	0.50	8,042	SERV	serv rig	
16:30	18:00	1.50	8,325	DRILR	Rotate- Drill from 8042 ft to 8325 ft wob-30 rotary rpm 70 tq 10 k psi 4300 @ 603 gpm diff 900	
18:00	18:30	0.50	8,340	DRILS	Slide F/ 8325' T/ 8340', wob 38, gpm 602, diff 550, rpm 0	
18:30	19:30	1.00	8,512	DRILR	Rotate F/ 8340' T/ 8512', wob 35, gpm 602, diff 1000, rpm 75	
19:30	0:00	4.50	9,165	DRILR	Rotate and slide drill F/ 8512' T/ 9165', wob 35/43 gpm 602, diff 550/1000, rpm 65/80	
0:00	6:00	6.00	10,000	DRILR	Rotate and slide drill F/ 9165' T/ 10000', wob 35/38, gpm 602, diff 550/1000, rpm 65/80	

**Bit/BHA Information**

No/Run	Make	Model	Diam	Jets 1-4	Dist	Hrs	ROP	WOB	RPM	Torq	MudWt	Flow Press	J.Vel	P.Drp	HHP	JIF
3	1	ULTER	u519m	8.750	22	22	22	22								
<b>DepthOut:</b>		<b>Cutter:Inner/Outer:</b> /			<b>Dull:Maj/Oth:</b> /			<b>WearLoc:</b>		<b>Brgs:</b>	<b>Gauge:</b>		<b>Pull:</b>			

BHA - No. 3 - BIT, MMTR, UBHO, 2 NMDC, 45 DP, OTHER = 1536.53

**Mud Reports**

Date/Time	Dens.	Vis.	PV	YP	Filt.	Cake	pH	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	Gels	Temp In/Out
09-Nov-16 21:00	8.70	64	16	7	10.8	2		4.3	60	33			63000			5 / 7 / 8	118/

16 records not printed

**Drilling Parameters****Mud Log**

Depth	ROP	Av/Mx	WOB	RPM	Torque	Flow	AV:DC	AV:DP	Press.	Depth	Gas:Back	Max	Conn	Trip	Pore Pres.
7115-7383	178.0	/ 178.0	30	70	10	600			4300	No Mud Log Information for this report.					
7383-7477	376.0	/ 376.0	30	70	10	600			4300						
7477-7522	90.0	/ 90.0	45	0	0	600			4300						

**Inventory****Safety Information****Environment**

Item	Used	Invent.	Item	Used	Invent.	LTI:	Days Since:	7	Cum. Water Hauled:	0.000	acre-ft
FUEL	1889	4,279	DIESEL	1334	8,044	Med:	1st Aid:				
FUEL	0	225				Accident Description:					
						Oper: 2 Cont: 11 Serv: 9 Othr: 0					
						Total Personnel: 22 Hours: 288					

**Rig/Weather Information****Equipment Problems:****Location Condition:****Transport Status:****No Weather Information for this report.**



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 9

Report For 06:00 AM 11-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		40,755 / 9,089									
Measured Depth (ft):		13094		Drilling Days (act.):		9		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		6750		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		566,739					
Proposed TD (ft):				Days On Location:		9		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		3,094 / 21.0		Last Casing:								Totals:		4,896,809		566,739					
Average ROP (ft/hr):		147.33		Next Casing:				Working Interest:				Well Cost (\$):				566,739					
Pers/Hrs:		Operator:		2 / 24		Contractor:		11 / 144		Service:		9 / 120		Other:		0 / 0		Total:		22 / 288	

**Safety Summary:** No incidents or events reported. 8 days since LTI. Conducted Safety Meeting.

**Current Operations:** Drilling ahead @ 13094'

**Planned Operations:** TD well, circulate hole clean

**Wellsite Supervisors:** SHANNON SMITH, Michael Rust

Tel No.: 325-500-0663

### Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	11:30	5.50	10,850	DRILR	Rotate-Slide Drill from 10000 ft to 10850 ft 850' @ 154.5'/hr wob 35 rpm 55-80 psi 5650@ 600 gpm diff 800	
11:30	14:30	3.00	10,850	CIRC	pipe hanging up @10850' - pulled free 50k over, clean up cycle 3 bottoms up w/high vis sweeps	
14:30	18:00	3.50	11,316	DRILR	Rotate-Slide Drill from 10850 ft to 11316 ft 466' @133'/hr wob 35 rpm 55-80 psi 5650@ 600 gpm diff 800	
18:00	0:00	6.00	12,251	DRILR	Rotate and slide drill F/ 11316' T/ 12251', 935' @ 155'/hr, wob 35/38, rpm 60/80, spp 4900/5800, gpm 600, diff 250/1000, tq 15/20	
0:00	6:00	6.00	13,000	DRILR	Rotate and slide drill F/ 12251' T/ 13094', 843' @ 140.5'/hr, wob 35/38, rpm 60/80, spp 4900/5800, gpm 600, diff 250/1000, tq 15/20	

### Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	9,089	42,889	40,755	566,739	11.57 %
Totals \$:		4,896,809	9,089	42,889	40,755	566,739	11.57 %

### Mud Information

																%			Gels			Temp		Mud
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss				
10-Nov-16 21:00 at Depth 11,652 ft Mud Pits																								
8.80	62	16	8	10	2		5.4	60	32			61000			5	7	9	124						

### Bit/BHA/Workstring Information

																			Depth		This Run		R.O.P.			Mud			Pump		
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HHP	JIF												
3	1	ULTERI	u519m	8.750	7115																										
Jets: 22 22 22 22 22 22					Out:		Grade: Cutter:		/	Dull:		/	Wear:		Brgs:	Gge:	Pull:														
BHA - No. 3 - BIT, MMTR, UBHO, 2 NMDC, 45 DP, OTHER = 1536.53																															

**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 9

Report For 06:00 AM 11-Nov-16

**Drilling Parameters**

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure (psi)
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
10,000	10,008	30.0	30.0	45	45	0	0	0	0	600	600	4,900
10,008	10,206	148.0	148.0	35	35	90	90	16	18	600	600	5,500
10,206	10,221	60.0	60.0	35	35	0	0	0	0	600	600	5,000
10,221	10,547	186.0	186.0	35	35	65	65	16	18	600	600	5,650
10,547	10,562	60.0	60.0	35	35	0	0	0	0	600	600	5,200
10,562	10,830	214.0	214.0	35	35	55	55	16	18	600	600	5,700
10,830	10,850	26.0	26.0	35	35	0	0	0	0	600	600	5,250
10,850	10,924	98.0	98.0	35	35	55	55	16	18	600	600	5,300
10,924	10,944	80.0	80.0	35	35	0	0	0	0	600	600	5,050
10,944	11,301	204.0	204.0	37	37	80	80	18	20	600	600	5,700
11,301	11,316	60.0	60.0	45	45	0	0	0	0	600	600	5,100
11,316	11,406	315.0	325.0	37	37	65	65	15	18	600	600	5,700
11,406	11,429	60.0	60.0	37	37	0	0	0	0	600	600	5,100
11,429	11,495	350.0	375.0	37	37	65	65	18	20	600	600	5,700
11,495	11,523	65.0	65.0	39	39	0	0	0	0	600	600	4,900
11,523	11,595	325.0	340.0	37	37	75	75	18	20	600	600	5,700
11,595	11,608	45.0	65.0	39	39	0	0	0	0	600	600	5,000
11,608	11,790	315.0	325.0	37	37	60	60	15	18	600	600	5,900
11,790	11,816	57.0	80.0	39	39	0	0	0	0	600	600	5,100
11,816	12,251	350.0	395.0	37	37	80	80	18	20	600	600	5,900
12,251	12,273	55.0	60.0	47	47	0	0	0	0	600	600	5,100
12,273	12,535	325.0	375.0	37	37	70	70	18	20	600	600	5,900
12,535	12,555	65.0	75.0	47	47	0	0	0	0	600	600	6,000
12,555	12,630	305.0	325.0	37	37	70	70	18	20	600	600	5,900
12,630	12,645	50.0	55.0	48	48	0	0	0	0	600	600	5,400
12,645	12,918	315.0	325.0	37	37	80	80	18	20	600	600	6,100
12,918	12,938	47.0	59.0	37	37	0	0	0	0	600	600	5,400
12,938	12,968	315.0	325.0	37	37	80	80	15	18	600	600	6,100
12,968	12,978	55.0	55.0	49	49	0	0	0	0	600	600	5,400
12,978	13,010	325.0	325.0	37	37	80	80	18	20	600	600	6,100
13,010	13,094	325.0	340.0	37	37	80	80	18	20	600	600	6,100

**Miscellaneous Drilling Parameters**

Hook Loads (lbs):	Off Bottom Rotate: 178,000	Pick Up: 268,000	Slack Off: 70,000	Drag Avg/Max:	/
Hours on BHA:	Since Inspection: 50.25	Total:	Jars:		

**Rig Information**

Equipment Problems:

Location Condition:

Transport:

**Bulk Inventory**

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	4,279	2,376		1,903	
Mud	GALS	8,044	3,162		4,882	
Fuel	GALS	225	0		225	

**Safety Information**

Meetings/Drills	Time	Description
Safety	30	cleaning on rig, identify hazards on rig, hanging electrical lines
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI:	8	
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownomatic Check	



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 9

Report For 06:00 AM 11-Nov-16

## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rental Express							
Total Daily Rental Cost \$:					925		





# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 10

Report For 06:00 AM 12-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		59,536 / 9,780									
Measured Depth (ft):		14572		Drilling Days (act.):		10		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		6750		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		626,275					
Proposed TD (ft):				Days On Location:		10		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		1,478 / 15.0		Last Casing:								Totals:		4,896,809		626,275					
Average ROP (ft/hr):		98.53		Next Casing:				Working Interest:				Well Cost (\$):				626,275					
Pers/Hrs:		Operator:		2 / 24		Contractor:		11 / 144		Service:		9 / 120		Other:		0 / 0		Total:		22 / 288	

**SafetySummary:** No incidents or events reported. 9 days since LTI. Conducted Safety Meeting.

**Current Operations:** Circulate hole clean @ TD

**Planned Operations:** Laydown drill pipe, run casing

**Wellsite Supervisors:** SHANNON SMITH, Michael Rust

**Tel No.:** 325-500-0663

## Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	11:30	5.50	13,688	DRILR	Rotate-Slide Drill from 13094ft to 13688 ft 594' @108'/hr wob 35-45 rpm 0-80 psi 6200 @ 600 gpm	
11:30	12:00	0.50	13,688	SERV	service rig	
12:00	16:00	4.00	14,149	DRILR	Rotate- Slide Drill from 13688 ft to 14149 ft 461'115'/hr wob 35-45 rpm 0-80 psi 6200 @ 600 gpm	
16:00	18:00	2.00	14,149	CIRC	circ clean up cycle,pump high vis sweeps	
18:00	18:30	0.50	14,149	CIRC	Continue clean up cycle	
18:30	19:30	1.00	14,187	DRILS	Slide F/ 14149' T/ 14187', wob 49, rpm 0, psi 5500, gpm 600	
19:30	20:30	1.00	14,313	DRILR	Rotate F/ 14187' T/ 14313', wob 37, rpm 70, psi 6200, gpm 600	
20:30	21:00	0.50	14,381	DRILR	Rotate and slide drill F/ 14313 T/ 14381', wob 37/49, rpm 0/70, psi 5500/6200, gpm 600	
21:00	21:30	0.50	14,381	DIR	recycle 3 times,, trash in signal, getting a lot of noise switch pumps, change out transducer	
21:30	0:30	3.00	14,572	DRILR	Rotate and slide drill F/ 14381' T/ 14572', wob 37/49, rpm 0/70, psi, 5500/6200 Note: TD 14572', 00:30 hrs. 11/12/16	
0:30	6:00	5.50	14,572	CIRC	Circulate and pump sweeps to clean hole and prepare to laydown pipe	

## Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	9,780	52,668	59,536	626,275	12.79 %
<b>Totals \$:</b>		4,896,809	9,780	52,668	59,536	626,275	12.79 %

## Mud Information

															Gels			Temp		Mud
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss
11-Nov-16 23:00 at Depth 14,418 ft Mud Pits																				
8.90	66	18	9	10.8	2		5.6	59.5	32			62000			7	9	10	128		

## Bit/BHA/Workstring Information

																			Depth		This Run		R.O.P.				Mud		Pump			
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HPH	JIF													
3	1	ULTER	u519m	8.750	7115																											
Jets: 22 22 22 22 22					Out:		Grade:		Cutter: /		Dull: /		Wear:		Brgs:		Gge:		Pull:													
BHA - No. 3 - BIT, MMTR, UBHO, 2 NMDC, 45 DP, OTHER = 1536.53																																



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 10

Report For 06:00 AM 12-Nov-16

## Drilling Parameters

Depth (ft)		ROP (ft/hr)		WOB (lbs)		RPM		Torque (ft lbs)		Flow (gals/min)		Pressure (psi)
From	To	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
13,094	13,203	145.0	145.0	38	38	80	80	19	20	600	600	6,100
13,203	13,215	48.0	48.0	46	46	0	0	0	0	600	600	5,500
13,215	13,297	164.0	164.0	38	38	80	80	19	20	600	600	6,050
13,297	13,328	31.0	31.0	46	46	0	0	0	0	600	600	5,575
13,328	13,392	128.0	128.0	38	38	80	80	19	20	600	600	6,200
13,392	13,417	25.0	25.0	46	46	0	0	0	0	600	600	5,350
13,417	13,688	155.0	155.0	38	38	80	80	19	20	600	600	6,250
13,688	13,864	234.0	234.0	38	38	80	80	19	20	600	600	6,250
13,864	13,879	15.0	15.0	46	46	0	0	0	0	600	600	5,450
13,879	14,146	152.0	152.0	38	38	80	80	19	21	568	568	5,800
14,146	14,572	155.0	255.0	38	49	70	70	18	20	600	600	6,200

## Miscellaneous Drilling Parameters

Hook Loads (lbs): Off Bottom Rotate: 181,000 Pick Up: 255,000 Slack Off: 89,000 Drag Avg/Max: /

Hours on BHA: Since Inspection: 65.25 Total: Jars:

## Rig Information

Equipment Problems:

Location Condition:

Transport:

## Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	1,903	3,249	7,514	6,168	4,265
Mud	GALS	4,882	3,800		1,082	
Fuel	GALS	225	0		225	

## Safety Information

Meetings/Drills Time Description

Safety 30 mixing chemicals, prepare to laydown drill pipe

First Aid Treatments: Medical Treatments: Lost Time Incidents: Days Since LTI: 9

☐ BOP Test ☐ Crownamatic Check

## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Clean	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm transfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 10

Report For 06:00 AM 12-Nov-16

## Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rental Express							
Total Daily Rental Cost \$:					925		

**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 11

Report For 06:00 AM 13-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		35,035 / 3,869									
Measured Depth (ft):		14572		Drilling Days (act.):		11		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		6750		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		661,310					
Proposed TD (ft):				Days On Location:		11		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		0 / 0.0		Last Casing:								Totals:		4,896,809		661,310					
Average ROP (ft/hr):				Next Casing:				Working Interest:				Well Cost (\$):				661,310					
Pers/Hrs:		Operator:		2 / 24		Contractor:		11 / 144		Service:		9 / 120		Other:		0 / 0		Total:		22 / 288	

SafetySummary: No incidents or events reported. 10 days since LTI. Conducted Safety Meeting.

Current Operations: laydown drillpipe

Planned Operations: run 5.5 casing

Wellsite Supervisors: SHANNON SMITH, Michael Rust

Tel No.: 325-500-0663

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	6:30	0.50	14,572	CIRC	circ clean up cycle, slug pipe to laydown dp	
6:30	8:30	2.00	14,572	DPLD	pull 10 stds drill pipe, lay down drill pipe/ pulled 70 k over string weight @ 13045	
8:30	9:30	1.00	14,572	CIRC	work tight hole 13045-13020/circ clean	
9:30	10:30	1.00	14,572	DPLD	lay down drill pipe 13020-12675, hole pulled clean, slug drill pipe, then pulled 50 k over string weight	
10:30	11:30	1.00	14,572	TRPI	worked tight hole then ran 5 stds drill pipe -in hole to 13450,	
11:30	13:30	2.00	14,572	CIRC	circ clean hole, pump high vis sweeps	
13:30	15:00	1.50	14,572	TRPO	trip out of hole to 12550' pulled 40 k over string wt	
15:00	15:30	0.50	14,572	STUCK	un stick pipe, circ & work hole	X
15:30	20:00	4.50	14,572	DPLD	laydown drill pipe 12550'-7711	
20:00	20:30	0.50	14,572	SERV	Service rig, fill catwalk with hyd. oil	
20:30	21:00	0.50	14,572	REPR	Troubleshoot catwalk, problems with getting steady pressure, catwalk not functioning properly	X
21:00	22:30	1.50	14,572	TRPO	TOH F/ 7711' T/ 5879' to get above curve and into vertical section while waiting on electrician to repair catwalk.	X
22:30	2:30	4.00	14,572	REPR	Troubleshoot catwalk with electrician, no electrical problems, waiting on mechanic, found piece of trash in valve bank to be cause of hydraulic problem	X
2:30	6:00	3.50	14,572	DPLD	Pump slug and laydown drill pipe F/ 5879' T/ 1800'	

**Cost/AFE Information**

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	3,869	56,537	35,035	661,310	13.50 %
Totals \$:		4,896,809	3,869	56,537	35,035	661,310	13.50 %

**Mud Information**

Mud Information																				
%														Gels			Temp		Mud	
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss
12-Nov-16 20:00 at Depth 14,572 ft Mud Pits																				
9.00	66	19	9	10.8	2		5.9	59	32			61000			7	9	11			

**Bit/BHA/Workstring Information**

BHA - No. 3 - BIT, MMTR, UBHO, 2 NMDC, 45 DP, OTHER = 1536.53

**Rig Information**

Equipment Problems:

Location Condition:

Transport:

**Bulk Inventory**

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	6,168	1,520		4,648	
Mud	GALS	1,082	0		1,082	
Fuel	GALS	225	0		225	

**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 11

Report For 06:00 AM 13-Nov-16

**Safety Information**

Meetings/Drills	Time	Description
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Safety	30	laydown pipe, oilbase on rig floor, slip hazards
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First Aid Treatments:	Medical Treatments:	Lost Time Incidents:	Days Since LTI:	10
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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**Rental Tools Information**

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rrental Express							

Total Daily Rental Cost \$:	925
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# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

# SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 12

Report For 06:00 AM 14-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		39,851 / 981									
Measured Depth (ft):		14572		Drilling Days (act.):		12		Well Bore:      Original Well Bore		AFE No.		AFE (\$)		Actual (\$)							
Vertical Depth (ft):		6750		Drilling Days (plan):				RKB Elevation (ft):      26.20		102516		4,896,809		701,161							
Proposed TD (ft):				Days On Location:		12		Last BOP Test:      06-Nov-16													
Hole Made (ft) / Hrs:		0 / 0.0		Last Casing:						Totals:		4,896,809		701,161							
Average ROP (ft/hr):				Next Casing:				Working Interest:		Well Cost (\$):				701,161							
Pers/Hrs:		Operator:		2 / 24		Contractor:		11 / 144		Service:		9 / 120		Other:		7 / 84		Total:		29 / 372	

SafetySummary: No incidents or events reported. 11 days since LTI. Conducted Safety Meeting.

Current Operations: Running 5 1/2 casing @ 11600'

Planned Operations: Land casing and cement casing

Wellsite Supervisors: SHANNON SMITH, Michael Rust

Tel No.: 325-500-0663

## Operations Summary

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	6:30	0.50	14,572	DPLD	Lay down drill pipe,1900'-1314'	
6:30	8:30	2.00	14,572	TRPI	Trip in hole w/ 40 stands drill pipe out of derrick 1314'-5053	
8:30	9:00	0.50	14,572	SERV	Service rig	
9:00	9:30	0.50	14,572	DPLD	Lay down drill pipe- tight connections - two pair tongs 5053'-3791'	
9:30	10:30	1.00	14,572	REPR	Repaire cat head sheave	X
10:30	12:30	2.00	14,572	DPLD	Lay down drill pipe 3791' to bha	
12:30	14:00	1.50	14,572	BHAOP	Lay down bha, motor,nmdc,mwd, break bit	
14:00	14:30	0.50	14,572	SAFETY	Safety meeting w, rig crew, csg crew, torque turn, all service personnel	
14:30	15:30	1.00	14,572	CASE	Rig up casing crew, torque turn	
15:30	16:30	1.00	14,572	CASE	Make up casing shoe, 1 jt 5 1/2 csg, float collar, 1 jt 5 1/2 csg, install casing swedge & pump through shoe trac	
16:30	0:00	7.50	14,572	CASE	Make up toe shoe, run 5 1/2 casing T/ 6847', no issues going through curve.	
0:00	6:00	6.00	14,572	CASE	Continue running casing F/ 6847' T/ 11600'	

## Cost/AFE Information

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	981	57,518	39,851	701,161	14.32 %
Totals \$:		4,896,809	981	57,518	39,851	701,161	14.32 %

## Mud Information

Mud Information																				
%														Gels			Temp		Mud	
Dens.	Vis	PV	YP	Filt.	Cake	pH/ES	Solids	Oil	Water	Sand	LGS	Cl	Ca	CaCl	10s	10m	30m	In	Out	Loss
13-Nov-16 20:00 at Depth 14,572 ft Mud Pits																				
9.00	69	20	7	11	2		5.9	59	32			61000			7	9	11			

## Bit/BHA/Workstring Information

					Depth	This Run		R.O.P.				Mud				Pump				
No	Run	Make	Model	Diam	In	Dist	Hrs	Avg	Max	WOB	RPM	Torque	Wt	Flow	Press	J. Vel	P. Drp	HP	JIF	
3	1	ULTERI	u519m	8.750	7115	7,457	55.5	134.4	415.0	37	70	18	9	600	6200	86	60	21	239	
Jets: 22 22 22 22 22 22					Out: 14572		Grade: Cutter:		1 / 5		Dull: BT / CT		Wear: S		Brgs: X		Gge: 0		Pull: TD	
BHA - No. 3 - BIT, MMTR, UBHO, 2 NMDC, 45 DP, OTHER = 1536.53																				

## Rig Information

Equipment Problems:

Location Condition:

Transport:

## Bulk Inventory

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	4,648	733		3,915	
Mud	GALS	1,082	0		1,082	
Fuel	GALS	225	60		165	



# Daily Drilling Report

Well ID: 42-235-35002

Field: Barnyard

## SEM Operating Company, LLC

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 12

Report For 06:00 AM 14-Nov-16

### Safety Information

Meetings/Drills	Time	Description
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Safety	30	running casing, buffer zone, drillers line of sight.
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First Aid Treatments:	Medical Treatments:	Lost Time Incidents:	Days Since LTI:	11
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<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check
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### Rental Tools Information

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rrental Express							

Total Daily Rental Cost \$:	925
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**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 13

Report For 06:00 AM 15-Nov-16

Operator:		SEM OPERATING		Rig:		H&P 499		Spud Date:		Daily Cost / Mud (\$):		386,460 / 445									
Measured Depth (ft):		14572		Drilling Days (act.):		13		Well Bore:		Original Well Bore		AFE No.		AFE (\$)		Actual (\$)					
Vertical Depth (ft):		6750		Drilling Days (plan):				RKB Elevation (ft):		26.20		102516		4,896,809		1,087,621					
Proposed TD (ft):				Days On Location:		13		Last BOP Test:		06-Nov-16											
Hole Made (ft) / Hrs:		0 / 0.0		Last Casing:		5.500 at 14,572						Totals:		4,896,809		1,087,621					
Average ROP (ft/hr):				Next Casing:				Working Interest:				Well Cost (\$):				1,087,621					
Pers/Hrs:		Operator:		2 / 24		Contractor:		14 / 180		Service:		2 / 24		Other:		0 / 0		Total:		18 / 228	

SafetySummary: No incidents or events reported. 12 days since LTI. Conducted Safety Meeting.

Current Operations: Rigging down

Planned Operations: Move Rig

Wellsite Supervisors: SHANNON SMITH, Michael Rust

Tel No.: 325-500-0663

**Operations Summary**

From	To	Elapsed	End MD(ft)	Code	Operations Description	Non-Prod
6:00	10:30	4.50	14,572	CASE	Finish running 5 1/2 17# HCP110 casing, set @ 14572' shoe @ 14572,FC @ 14526',toe valve @14483' marker jt @8989, floatation collar @ 7237, marker jt @ 6055' centralizers set as directed	
10:30	11:00	0.50	14,572	CASE	Rig down express casing crew	
11:00	14:30	3.50	14,572	CIRC	Burst flotation plug with 4200 psi @11:30, pump 47 bbls fluid, burp pipe 4 times,total 152 bbls, brk circulation, pump casing capacity, drop wiper plug, pump down with 353 bbls fluid, burst plug with 1500 psi	
14:30	15:00	0.50	14,572	SAFETY	Safety meeting w/ rig crew,peakdavis lynch,c & j cementers,rig up cement head	
15:00	20:00	5.00	14,572	CMTP	Test lines to 5000 psi, pump 40 bbls mud recovery spacer, 310 bbls brine, 40 bbls fw spacer with additives, 284 bbls (645 sx)11.8 ppg class H cement, 533 bbls(2340 sx) 14.2 class H cement, drop plug, displace with 337 bbls fresh water with biocide, bump plug with 3500 psi, hold 5 minutes, bleed off, check floats, CIP @ 19:45circulated 97 bbls ( 221 sx) to surface, rig down cementers,	
20:00	4:30	8.50	14,572	BOPND	Nipple down bop,set weatherford casing slips 100k string weight, break off spools and dsa, rack back BOP, make final cut on casing, set b section, test b section to 4700 psi, for 15 minutes, test good, clean pits with rental express. Note: Rig Release @ 04:30 11/15/16	
4:30	6:00	1.50	14,572	RD	Rig down backyard, clean rig floor with rig cleaners, rig down and prepare for trucks in morning.	

**Comments**

Note: Rig release 04:30 11/15/16

**Casing/Tubular Information**

Type	Size (ins)	Top MD (ft)	Top TVD (ft)	Bottom MD (ft)	Bottom TVD (ft)	Hole Section	OH Diam. (ins)	Nom. Wgt. (lbs)	Nominal Grade	LOT (lbs/gal)
FULL	5.500	0	0	14,572	6,781	PROD	8.750	17	HCP-110	

**Cost/AFE Information**

AFE No	AFE Description	AFE Amount	Daily Mud	Well Mud	Daily Total	Well Total	% Spent
102516	Drill & Complete 7500' Lateral W	4,896,809	445	57,963	386,460	1,087,621	22.21 %
Totals \$:		4,896,809	445	57,963	386,460	1,087,621	22.21 %

**Rig Information**

Equipment Problems:

Location Condition:

Transport:

**Bulk Inventory**

Item Type	Units	Beginning	Used	Received	On Hand	Net
Fuel	GALS	3,915	533		3,382	
Mud	GALS	1,082	0		1,082	
Fuel	GALS	165	0		165	



**Daily Drilling Report**

Well ID: 42-235-35002

Field: Barnyard

**SEM Operating Company, LLC**

Well Name: University 43 0906H

Sect: 12 County: Irion State: TX

Report No: 13

Report For 06:00 AM 15-Nov-16

**Safety Information**

Meetings/Drills	Time	Description
Safety	30	CEMENTING, RIGGING DOWN, CLEANING PITS
First Aid Treatments:	Medical Treatments:	Lost Time Incidents:
Days Since LTI:	12	
<input type="checkbox"/> BOP Test	<input type="checkbox"/> Crownamatic Check	

**Rental Tools Information**

Type	Description	Serial No.	Vendor	Acct Code	Today's Cost \$	Start	End
SPOOLS	DSA	001	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	002	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
SPOOLS	11" 5K SPOOL	003	WFD	9240-01	55	05-Nov-16	
Notes: WEATHERFORD							
Rig Vac	MUD VAC	004	EXPRESS	9240-01	75	05-Nov-16	
Notes: Rental Express							
Light Tower	4 ea light tower	005	LTR	9240-01	140	03-Nov-16	
Notes: LIGHT TOWER RENT							
Steam Cleane	pressure washer	006	EXPRESS	9240-01	50	05-Nov-16	
Notes: Rental Express							
Frac Tanks	obm tanks	007	OTHER	9240-01	125	05-Nov-16	
Notes: PMS							
Frac Tanks	cmt water tanks	008	OTHER	9240-01	100	05-Nov-16	
Notes: THORPE							
Trans. Pump	obm trasnfer pump	009	OTHER	9240-01	75	05-Nov-16	
Notes: PMS							
Mud Bucket	katch kan	010	OTHER	9240-01	125	05-Nov-16	
Notes: KATCH KAN							
Steam Cleane	screen washer	011	OTHER	9240-01	70	05-Nov-16	
Notes: Rrental Express							

Total Daily Rental Cost \$: 925