

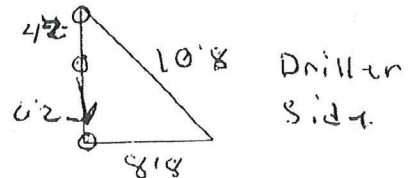
## RAT HOLE DRILLING REPORT

Driller Miller  
 Pusher Travis  
 Helper \_\_\_\_\_  
 Helper \_\_\_\_\_

Rig # 3  
 Date Start 5-24-12  
 Date Comp 5-24-12

Company Sandridge  
 Lease Name Salt # 3419-1-4 SWD  
 City Coldwater MS  
 County Comanche  
 State \_\_\_\_\_

Drill Rig Tomcat



Directions From Wood Church & Hwy 1  
1-W 1-N CRD 12 to CRD 24 S W 2 S into

	Depth	X	Diameter
<b>Conductor</b>			
Hole	<u>40'</u>	X	<u>30"</u>
Pipe	<u>80'</u>	X	<u>20"</u>
<b>Rat</b>			
Hole	<u>30' <del>20'</del></u>	X	<u>20"</u>
Casing	<u>30"</u>	X	<u>Shuck</u>
<b>Mouse</b>			
Hole	<u>20'</u>	X	<u>20"</u>
Casing	<u>20'</u>	X	<u>Shuck</u>
<b>Cellar</b>			
Tin Horn	<u>616</u>	X	<u>616</u>

**Drilling Conditions:**

0-2' Sand mix  
6'-45' clay  
45'-60' Sand mix  
60'-80' clay  
RS minimum 120'

**CEMENT**

Yards: 8 Type: \_\_\_\_\_ Furnished by: \_\_\_\_\_

Pumped:	Yes	<u>NO</u>	Furnished by: _____	# trucks _____
Mud Truck:	Yes	<u>NO</u>	Furnished by: _____	# trucks _____
Water Truck:	Yes	<u>NO</u>	Furnished by: _____	# trucks _____
Vac Truck:	Yes	<u>NO</u>	Furnished by: _____	# trucks _____

HOLE COVERS: Main # \_\_\_\_\_ M/R # \_\_\_\_\_  OLD  NEW  NONE

Express Energy Services  
Rat Hole Services

Rat Hole - Job Sheet

Date Called: 5-23-12 Time Wanted: 5-24-12

Move Date: 5-27-12 When Loc Ready: 5-24-12

Co.: Sandridge

By: Jason Harrison Phone No.: \_\_\_\_\_

Rig No.: locat #

Face Rig: East

Rat Hole: 38' stuck

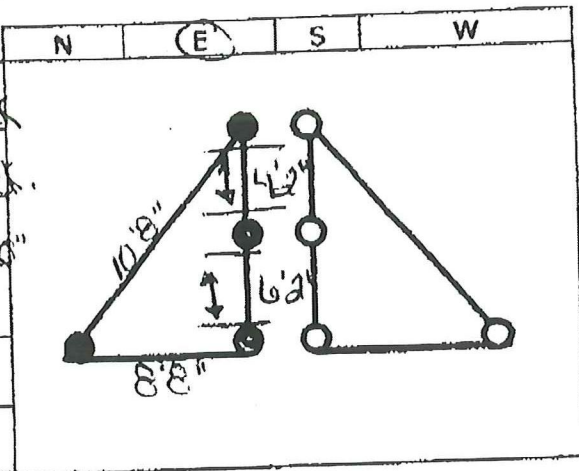
Mouse Hole: 20' stuck

Conductor Pipe: 60' 80' w/ 20"

Wall Thickness: .250

Cellar: 6x6

Tin Horn: 6x6



Lease Name: Salt # 3419-1-4 SWD

Well Number: \_\_\_\_\_

GPS Coordinates: sec. 4-34.5-19W, Comanche Co. Kansas

Directions: From the wood church on Hwy 1  
go west 1/2 mi North on CR 12, 2 1/2 west on Hwy. 5  
& south into

Special Instructions: \_\_\_\_\_

Crew: Mike

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Rewis Colkins

**EXPRESS ENERGY SERVICES.  
INVOICE PRICE SHEET**

Job Ticket # 44

Date: 24-May

Company Name: Sandridge  
 Lease Name: Salt # 3419 1-4 H  
 Legal Description: sec. 4 - 34 S - 19 W  
 City / County / State: Coldwater / Comanche / Kansas  
 Company Rep: Jason Harrison  
 Drilling Rig: Tomcat # 3

Drill Conductor Hole - RHD-029	80 ft of 30 inch hole	@ \$55.00 per ft	= \$4,400.00
Conductor Pipe - RSM-104	80 ft of 20 inch	@ \$45.00 per ft	= \$3,600.00 Tx
Drill Rat Hole RHD-034	30 ft of 20 inch hole	@ \$30.00 per ft	= 900.00
Rat Hole Casing - RSM-108	30 ft of 15 inch	@ \$20.00 per ft	= 600.00 Tx
Drill Mouse Hole - RHD-032	20 ft of 20 inch hole	@ \$30.00 per ft	= 600.00
Mouse Hole Casing - RSM-102	20 ft of 15 inch	@ \$20.00 per ft	= 400.00 Tx
Drill Cellar - RHD-022	6 ft of 76 inch hole	@ \$100.00 per ft	= 600.00
Cellar - RSM-112	6 ft of 72 inch	@ \$125.00 per ft	= 750.00 Tx
Rock Time			100.00
Dirt Removal - RSP-300			1500.00
Place Conductor Pipe - RHD-012			750.00
Place Cellar - RHD-014			750.00
Place Shucks - <del>RHD-014</del> RHD-014			500.00
Weld Pipe - RSI-105			150.00 Tx
Cover Plates for pipe - RSM-120	1 @ 150 each		250.00
Cement Hauling - RSI-113			1800.00 Tx
Grout RSM-110	9 yds @ 200 per yd		
Cement Pumping			0.00
2" nipple & ballvalve	@ 250 each		
Mud Disposal			
Backhoe Services			
<b>TOTAL SERVICES</b>			

**TOTAL TAXABLE MATERIALS**

State Sales Tax	0.0000%	\$0.00
County Sales Tax	0.0000%	\$0.00

17,650



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1523</b>	TICKET DATE <b>06/02/12</b>
COUNTY <b>COMANCHE</b>	State <b>KANSAS</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>RICKY ROBIES</b>	
LEASE NAME <b>SALT SWD</b>	Well No. <b>3419 1-4</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>LOUIS ARNEY</b>	

EMP NAME					
LOUIS ARNEY	0				
BILLY TAFF					
MARCOS QUINTANA					
CHERYL NEWTON					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At 0  
 Bottom Hole Temp. 80 Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 1,000'

Date	Called Out	On Location	Job Started	Job Completed
	6/3/2012	6/3/2012	6/3/2012	6/3/2012
Time	6:00	13:00	17:26	18:28

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

New/Used	Weight	Size Grade	From	To	Max. Allow
Casing	36#	9 5/8"	Surface		1,500
Liner					
Liner					
Tubing		0			
Drill Pipe					
Open Hole		12 1/4"	Surface	1,000'	Shots/Ft.
Perforations					
Perforations					
Perforations					

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Water	BBL.	10 8.33
Spacer type	BBL.		
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/3	6.0	6/3	1.0	Surface
Total	6.0	Total	1.0	

Pressures			
MAX	1,500 PSI	AVG.	200
Average Rates in BPM			
MAX	6 BPM	AVG	6
Feet		Cement Left in Pipe	
46'		Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	285	O-TEX Lite Standard	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	160	Standard	2% Calcium Chloride - 1/4pps Cello-Flake	6.20	1.18	15.60
3	100	Standard	2% Calcium Chloride on side to use if necessary	6.20	1.18	15.60

Summary						
Preflush Breakdown	Type: _____	MAXIMUM _____	1,500 PSI	Preflush: BBI _____	10.00	Type: Fresh Water
	Lost Returns-N _____	NO/FULL _____		Load & Bkdn: Gal - BBI _____	N/A	Pad:Bbl -Gal _____
	Actual TOC _____	SURFACE _____		Excess /Return BBI _____	20	Calc. Disp Bbl _____
Average	Bump Plug PSI: _____	700		Calc. TOC: _____	SURFACE	Actual Disp. _____
ISIP _____ 5 Min.	10 Min _____	15 Min _____		Final Circ. PSI: _____	300	Disp:Bbl _____
				Cement Slurry: BBI _____	127.0	
				Total Volume BBI _____	209.00	

CUSTOMER REPRESENTATIVE \_\_\_\_\_ *J. S. S.* SIGNATURE \_\_\_\_\_

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1557</b>	TICKET DATE <b>06/18/12</b>
COUNTY <b>Commanche</b>	State <b>KANSAS</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>RICKY ROBIES</b>	
LEASE NAME <b>SALT 3419 SWD</b>	Well No. <b>1-4</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>NATHAN COTTA</b>	

EMP NAME					
MIKE CHALFANT		0			
JASON JONES					
DAVID JENNINGS					
0.00					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. **155** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **6,657'**

Date	Called Out <b>6/7/2012</b>	On Location <b>6/7/2012</b>	Job Started <b>6/8/2012</b>	Job Completed <b>6/8/2012</b>
Time	<b>1100</b>	<b>1700</b>	<b>418</b>	<b>0600</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	26#	7"		Surface	6,765	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	6,657'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	<b>9</b> Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b> Lb/Gal
Spacer type	Fresh Water BBL.		<b>20</b> 8.33
Spacer type	Caustic BBL.		<b>10</b> 8.40
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>6/7</b>	<b>14.0</b>	<b>6/8</b>	<b>2.0</b>	Intermediate
Total	<b>14.0</b>	Total	<b>2.0</b>	

MAX 4000		AVG 500	
Average Rates in BPM			
MAX 8 BPM		AVG 4	
Cement Left in Pipe			
Feet		Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	6.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary					
Preflush	<b>10</b>	Type: Caustic	Preflush: BBI	<b>20.00</b>	Type: WEIGHTED SP.
Breakdown		MAXIMUM 5,000 PSI	Load & Bkdn: Gal - BBI	<b>N/A</b>	Pad:Bbl -Gal <b>N/A</b>
		Lost Returns-N NO/FULL	Excess /Return BBI	<b>N/A</b>	Calc. Disp Bbl
		Actual TOC	Calc. TOC:		Actual Disp.
Average		Bump Plug PSI:	Final Circ. PSI:		Disp:Bbl
5 Min.		10 Min.	15 Min.		
			Cement Slurry: BBI		
			Total Volume BBI	<b>20.00</b>	

CUSTOMER REPRESENTATIVE *[Signature]* SIGNATURE