



# Storm Cat Energy Daily Drilling Report

Report for: 3/23/2008  
Report #: 1.0, DFS: 1.25  
Depth Progress: 605.00

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear	Temperature (°F) 37.0	Road Condition Good	Hole Condition Good - Dry	
Operations at Report Time Running 9 5/8" surface csg		Operations Next Report Period Run & cement surface csg		
Operations Summary MI/RU - spud 12.45" surface hole - drill to 650'. Clean hole. TOOH & LDDP.				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
14:30	18:30	4.00	4.00	01	Rig Up & Tear Down	MI/RU Pense Bros Drilg Rig # 9. P/U BHA # 1.
18:30	02:45	8.25	12.25	02	Drilling	Drill 12.45" hole w/air-flatbottom bit- percussion hammer. Dev surveys @ 1 degree. Drill to 650'KB (Pense Rig). Well did not make any water. Dusted to TD.
02:45	03:45	1.00	13.25	07	Condition and/or Circulate mud	Circulate & clean hole w/air. Prepare to TOOH w/ drill string.
03:45	04:45	1.00	14.25	09	Tripping Out	TOOH & LDDP & DC's. Prepare to run surface csg.
04:45	04:45		14.25			

## BHA #1, Surface

Bit Run   Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
1   12.45in, <Model?>, <SN?>	1.00	-----		73.3

Nozzles (/32")	String Length (ft)	OD (in)
	650.00	11.750

String Components
Atlas COPCO, Percussion Hammer, Drill Collar, XO Sub, Drill Collar, XO Sub, Drill Pipe

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	45.0	650.0	605.00	8.25	73.3		2	30				
Original Hole	650.0		605.00	8.25			2	30				

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 15,750.00	Cum Cost To Date 15,750.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB) 45.0	Depth End (ftKB) 650.0
Target Formation Fayetteville Shale	Target Depth (ftKB)
Last Casing String Conductor, 45.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	307-752-2539

## Pense Bros, 9

Contractor Pense Bros	Rig Number 9
Rig Supervisor Thomas B. Majors	Phone Mobile 307-752-2539

## 1, GASO, Duplex

Pump Number 1	Pwr (hp)	Rod Dia (in)
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
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# Storm Cat Energy Daily Drilling Report

Report for: 3/24/2008  
Report #: 2.0, DFS: 2.25  
Depth Progress: 329.00

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear	Temperature (°F) 45.0	Road Condition Good	Hole Condition Good - Dry	
Operations at Report Time Prepare to open hole log wellbore.		Operations Next Report Period		
Operations Summary Run 9 5/8" surface - cement - WOC - N/U BOP - test BOP - drill 8 7/8" hole to TD @ 979'KB - Mud up well - W/O loggers				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	08:00	2.00	2.00	15	Run Casing	R/U & run 28 jts 9 5/8" csg - set @ 650' - ran 3 centralizers, float shoe & insert float.
08:00	10:00	2.00	4.00	16	Cementing	R/U Superior Well Serv. Pump preflush, 138 sx Lead, 131 sx Tail, and displace w/ 46 bbls water. Circ cement to surface (20 bbls). Did not run plug. S/I well. R/D cementers - WOC.
10:00	15:30	5.50	9.50	19	Wait On Cement	WOC. Lay out drill assy for next portion of hole. Prepare BOP for install.
15:30	17:00	1.50	11.00	00	Undefined Status	Welder on loc. Cut off conductor & 9 5/8" surface csg. Weld on 11" x 9 5/8" 3000# SOW w/ 2" outlet. Test weld & heat treat.
17:00	19:00	2.00	13.00	21	Nipple Up /Nipple Down BOP Stack	Greene's on loc. Install 9" - 3000# Regan annular.
19:00	20:00	1.00	14.00	22	Test BOP	Test BOP & surface csg. Low test - 10 minutes @ 250# - High for 30 minutes @ 1500#. Good test.
20:00	22:00	2.00	16.00	08	Tripping In	Pick-up BHA # 2 (8 7/8" flatbottom bit) and TIH. Tag cement at 600'.
22:00	01:00	3.00	19.00	02	Drilling	Drill 8 7/8" hole w/ air hammer. Hole damp @ 750' (not enough water to catch sample). Drill ahead to TD @ 979'KB. Wireline surveys @ 825' - 1/4 degrees.
01:00	02:00	1.00	20.00	07	Condition and/or Circulate mud	Circulate hole w/ air/foam to clean. Run wireline survey @ TD of 0 degrees.
02:00	03:00	1.00	21.00	09	Tripping Out	TOOH & L/D DP & hammer.
03:00	04:00	1.00	22.00	08	Tripping In	TIH w/ RR 8 3/4" mill tooth bit. Pump mud and displace to surface.
04:00	05:00	1.00	23.00	09	Tripping Out	TOOH & LDDP. Top off hole w/mud.
05:00	06:00	1.00	24.00	00	Undefined Status	W/O wireline loggers.

## BHA #2, Production

Bit Run / Drill Bit 2 8 7/8in, <Model?>, <SN?>	Length (ft) 0.40	IADC Bit Dull -----	TFA (incl Noz) (in²)	BHA RO... 109.7
Nozzles (/32")	String Length (ft) 979.05	OD (in) 7.750		
String Components Atlas COPCO, Air Hammer, Drill Collar, Drill Collar, XO Sub, Drill Pipe				

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	650.0	979.0	329.00	3.00	109.7		2	30				

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 65,825.00	Cum Cost To Date 81,575.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB) 650.0	Depth End (ftKB) 979.0
Target Formation Fayetteville Shale	Target Depth (ftKB)
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	307-752-2539

## Pense Bros, 9

Contractor Pense Bros	Rig Number 9
Rig Supervisor Thomas B. Majors	Phone Mobile 307-752-2539

## 1, GASO, Duplex

Pump Number 1	Pwr (hp)	Rod Dia (in)
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...)
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
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# Storm Cat Energy Daily Drilling Report

Report for: 3/25/2008  
Report #: 3.0, DFS: 2.58  
Depth Progress: 0.00

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 10.00	
Weather Clear	Temperature (°F) 70.0	Road Condition Good	Hole Condition Good - Dry	
Operations at Report Time Wait on UDI Rig # 32			Operations Next Report Period	

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	08:00	2.00	2.00	00	Undefined Status	W/O Halliburton log truck
08:00	13:00	5.00	7.00	14	Wireline Logs	R/U Halliburton wireline. 1st log run - Platform Express. 2nd run Dipmeter. R/D & release loggers.
13:00	15:00	2.00	9.00	01	Rig Up & Tear Down	R/D Pense Bros rig #9. Move to Kamalmaz 3-13H.

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
Nozzles (/32")			String Length (ft)	OD (in)	
String Components					

## Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 30,150.00	Cum Cost To Date 111,725.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB) 979.0	Depth End (ftKB) 979.0
Target Formation Fayetteville Shale	Target Depth (ftKB)
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
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Thomas B. Majors 307-752-2539

## Pense Bros, 9

Contractor Pense Bros	Rig Number 9
Rig Supervisor Thomas B. Majors	Phone Mobile 307-752-2539

## 1, GASO, Duplex

Pump Number 1	Pwr (hp)	Rod Dia (in)
Liner Size (in)	Stroke (in)	Vol/Stk OR (b...
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
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Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy	Temperature (°F) 80.0	Road Condition Excellent	Hole Condition	
Operations at Report Time Continue MI/RU of UDI # 32			Operations Next Report Period Continue R/U of UDI # 32	
Operations Summary TK Stanley Trucking on location. Tear down rig @ Ballard 1-18H & start MI/RU on Owen 1-18H				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
07:00	06:00	23.00	23.00	01	Rig Up & Tear Down	TK Stanley Trucking - MI/RU UDI # 32

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
Nozzles (/32")		String Length (ft)		OD (in)	
String Components					
Comment					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 8,990.00	Cum Cost To Date 8,990.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB)	Depth End (ftKB)
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 9.02	Vol/Stk OR (b...) 3.880
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB)

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear	Temperature (°F) 75.0	Road Condition Excellent	Hole Condition	
Operations at Report Time Continue rig up ops		Operations Next Report Period R/U - nipple up BOP & test		
Operations Summary Raise derrick, set new shaker, set new F-1000 mud pump, set new cat walk and move all housing.				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:00	24.00	24.00	01	Rig Up & Tear Down	Raise derrick, set new F-1000 mud pump & change liners to 6 1/2", set new cat walk & weld on V-door, move housing and set up.

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
Nozzles (/32")		String Length (ft)	OD (in)		
String Components					
Comment					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 10,375.00	Cum Cost To Date 19,365.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB)	Depth End (ftKB)
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 9.02	Vol/Stk OR (b...) 3.880
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB)

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy/Rain/Wind	Temperature (°F) 50.0	Road Condition Excellent	Hole Condition	
Operations at Report Time Testing BOP & surface equipment		Operations Next Report Period BOP Test - P/U cuve tools		
Operations Summary Continue R/U. N/U BOP. Fill mud pits w/spud mud. Start BOP test - manifold fail - call for new choke manifold.				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	18:00	12.00	12.00	01	Rig Up & Tear Down	Continue R/U. Unload DP. Fill mud tanks w/ spud mud. P/U kelly. Torque bolts on BOP. Unload all Schlumberger tools. Set out floor tools. Hang tongs.
18:00	06:00	12.00	24.00	21	Nipple Up /Nipple Down BOP Stack	Torque BOP bolts. Start test. Manifold leaking @ valve stems. Call for new manifold. Test blinds & pipe rams - OK. Manual choke did not hold.

Bit Run	Drill Bit				Length (ft)		IADC Bit Dull				TFA (incl Noz) (in²)		BHA RO...
Nozzles (/32")					String Length (ft)				OD (in)				
String Components													
Comment													
Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 74,600.00	Cum Cost To Date 93,965.00
Daily Mud Cost	Mud Cum To Date
Depth Start (ftKB)	Depth End (ftKB)
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 9.02	Vol/Stk OR (b...) 3.880
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB)

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Cool	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition	
Operations at Report Time Hook-up water lines on Pump # 2			Operations Next Report Period P/U curve tools	
Operations Summary BOP press test - change choke manifolds - test - OK - R/U flowline & gas buster lines				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	00:00	18.00	18.00	21	Nipple Up /Nipple Down BOP Stack	Test BOP's, surface lines, floor valves, and choke manifold. Swivel packing - replace. Change out choke manifold. Install Super Choke.
00:00	06:00	6.00	24.00	01	Rig Up & Tear Down	Hook-up flow line, gas buster lines, set wear ring, hook-up rotary chain, work on water lines on Pump # 2.

Bit Run	Drill Bit	Length (ft)			IADC Bit Dull				TFA (incl Noz) (in²)		BHA RO...	
Nozzles (/32")					String Length (ft)				OD (in)			
String Components												
Comment												
Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill T...

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 21,475.00	Cum Cost To Date 115,440.00
Daily Mud Cost 1,000.00	Mud Cum To Date 7,727.80
Depth Start (ftKB)	Depth End (ftKB)
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 9.02	Vol/Stk OR (b...) 3.880
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB)

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy - Cool	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Excellent	
Operations at Report Time Drlg @ KOP		Operations Next Report Period Drill curve thru Basal Hale		
Operations Summary Cont R/U - Safety meeting - P/U HwtDP - TIH - break out tong broke - replace - TIH - tag btm - circ - drill 1 foot - TOOH - P/U steerable tools - TIH - orient - drill @ KOP (988')				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	12:00	6.00	6.00	01	Rig Up & Tear Down	Cont R/U ops. Hang DP spinners, set slide on shakers, straighten drilling line, set out fire ext, etc.
12:00	15:00	3.00	9.00	08	Tripping In	Make-up 8 3/4" Smith FH30 bit w/ 3/16's - P/U 5" HwtDP - TIH. Ran 20 jts. Break out tong broke.
15:00	18:00	3.00	12.00	11	Rig Repair	Rig repair - break out tong broke - W/O replacement tong from Searcy Yard. Tongs arrived. Hang.
18:00	20:00	2.00	14.00	08	Tripping In	TIH w/ HwtDP - P/U rotating head
20:00	23:00	3.00	17.00	07	Condition and/or Circulate mud	Break circ - condition mud - increase vis to +50 - drill 1 foot to check bottom for junk - No problems
23:00	00:30	1.50	18.50	09	Tripping Out	TOOH - stand back - L/D 5 jts HwtDP
00:30	03:00	2.50	21.00	08	Tripping In	P/U Schlumberger steerable tools
03:00	04:30	1.50	22.50	08	Tripping In	TIH w/ HwtDP from derrick
04:30	05:30	1.00	23.50	25	Directional Work	Orient Schlumberger tools - wash to bottom
05:30	06:00	0.50	24.00	02	Drilling	Drilling @ KOP of curve -988' to 990'

## BHA #2, Kick Off

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
2	8 3/4in, FH30, PK 1023	1.00	-----	0.59	6.7
Nozzles (/32")		String Length (ft)		OD (in)	
16/16/16		951.75		8.250	
String Components					
Smith FH30, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Directional, NMDC, NMDC, Drill Collar, HWDP					
Comment					
KOP @ 988'TMD					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	988.0	990.0	2.00	0.30	6.7	477	15	0	960.0			

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 51,825.00	Cum Cost To Date 167,265.00
Daily Mud Cost 9,232.00	Mud Cum To Date 16,959.80
Depth Start (ftKB) 987.4	Depth End (ftKB) 990.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014

## Union Drig, 32

Contractor Union Drig	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b...) 3.140
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0



Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear-Cool	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition Excellent	
Operations at Report Time TOOH w/BHA # 2 for reamer run		Operations Next Report Period Ream Lower Basal Hale		
Operations Summary Slide/rotate in curve from KOP @ 988' to 1356'TMD - TOOH for reamers				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:00	1.00	1.00	02	Drilling	Drill slide/rotate from 990' - 1021'
07:00	07:30	0.50	1.50	10	Lubricate Rig	Rig service
07:30	18:00	10.50	12.00	02	Drilling	Drill slide-rotate 1021' to 1203'
18:00	18:30	0.50	12.50	10	Lubricate Rig	Rig service
18:30	02:00	7.50	20.00	02	Drilling	Drill slide-rotate from 1203' - 1357'
02:00	02:30	0.50	20.50	07	Condition and/or Circulate mud	Circulate for TOOH
02:30	06:00	3.50	24.00	09	Tripping Out	TOOH for reamer run. L/D 5 jts HwtDP. Standback Non-mag & Flex collars. L/D motor & IBS.

## BHA #2, Kick Off

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
2	8 3/4in, FH30, PK 1023	1.00	-----	0.59	19.1
Nozzles (/32")		String Length (ft)	OD (in)		
16/16/16		1,319.47	8.250		
String Components					
Smith FH30, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Directional, NMDC, NMDC, Drill Collar, HWDP					
Comment					
KOP @ 988'TMD					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	990.0	1,357.0	369.00	19.30	19.3	383	25	30	1,080.0		76	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 41,655.00	Cum Cost To Date 208,920.00
Daily Mud Cost 3,163.00	Mud Cum To Date 20,122.80
Depth Start (ftKB) 990.0	Depth End (ftKB) 1,357.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Cool	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Excellent	
Operations at Report Time TIH w/ Schlumberger tools		Operations Next Report Period Drill curve from 1357' TMD		
Operations Summary RIH w/ reamer assy - ream Lower Basal Hale - ream to 1354' TMD - TOO H - L/D reamers - TIH w/ Schlumberger tools				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:00	1.00	1.00	09	Tripping Out	Finish TOO H & standback Schlumberger tools
07:00	09:30	2.50	3.50	08	Tripping In	P/U RR bit/bit sub, 1 jt HwtDP, X/O, 6 pt reamer, pony collar, 3 pt reamer, 1 jt HwtDP, 3 pt reamer. TIH to 1011' TMD
09:30	18:00	8.50	12.00	04	Reaming	Ream w/ 50 rpm @ 30 fph per each jt DP - 2x's.
18:00	01:30	7.50	19.50	4	Reaming	Ream from 1159' to 1354' - 30' fph @ 50 rpm - ream each jt 2x's (tite @ 1265' TMD)
01:30	02:00	0.50	20.00	07	Condition and/or Circulate mud	Circulate hole @ 1354' for TOO H
02:00	05:00	3.00	23.00	09	Tripping Out	TOO H - inspect reamers (appears all 3 reamers in gauge) - L/D reamer assy
05:00	05:30	0.50	23.50	22	Test BOP	Function test BOP - OK
05:30	06:00	0.50	24.00	08	Tripping In	Make up Smith 8 3/4" - FH20 bit w/3-16's

## BHA #3, Reamer

Bit Run   Drill Bit 3   8 3/4in, FH30, PK 1023	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO...
Nozzles (/32") 16/16/16	String Length (ft) 1,316.39	OD (in) 8.750		

## String Components

Smith FH30, Bit Sub, HWDP, XO Sub, Reamer, Drill Collar, Reamer - 3 Pt, HWDP, Reamer - 3 Pt, HWDP

## Comment

Ream from 1011' to 1354' TMD

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	1,011.0	1,354.0	343.00			475	0	50	1,070.0			

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 42,100.00	Cum Cost To Date 251,020.00
Daily Mud Cost 1,132.50	Mud Cum To Date 21,255.30
Depth Start (ftKB) 1,357.0	Depth End (ftKB) 1,354.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Warm	Temperature (°F) 75.0	Road Condition Excellent	Hole Condition Excellent	
Operations at Report Time Repairing swivel		Operations Next Report Period Drill curve to landing		
Operations Summary P/U Schlumberger tools - TIH - swap out drlg mud - drill/slide from 1357' - 1572' - repair swivel				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:30	0.50	0.50	08	Tripping In	P/U Schlumberger tools (Gap Collar & MWD)
06:30	08:30	2.00	2.50	8	Tripping In	TIH - test MWD tools - TIH to top of curve
08:30	16:00	7.50	10.00	07	Condition and/or Circulate mud	Swap out spud mud - clean pits - transfer mud from frac tanks - condition for drilling - build new mud - dress shakers
16:00	16:30	0.50	10.50	08	Tripping In	TIH to 1357' TMD
16:30	17:30	1.00	11.50	07	Condition and/or Circulate mud	Circulate hole to condition mud and smooth out
17:30	18:00	0.50	12.00	02	Drilling	Drill rotate/slide from 1357' to 1367'
18:00	18:30	0.50	12.50	10	Lubricate Rig	Daily rig service
18:30	01:30	7.00	19.50	02	Drilling	Drill slide/rotate from 1367' to 1572'
01:30	06:00	4.50	24.00	11	Rig Repair	Repair swivel

## BHA #4, Curve

Bit Run   Drill Bit 4   8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO... 28.7
Nozzles (/32") 16/16/16	String Length (ft) 1,534.29	OD (in) 8.250		

## String Components

Smith FH20, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Directional, NMDC, NMDC, Drill Collar, HWDP

## Comment

Drill curve from 1376' TMD

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	1,357.0	1,572.0	215.00	7.50	28.7	383	30	30	1,000.0	87		

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 53,955.00	Cum Cost To Date 304,975.00
Daily Mud Cost 12,506.50	Mud Cum To Date 32,599.80
Depth Start (ftKB) 1,357.0	Depth End (ftKB) 1,572.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy/Rain	Temperature (°F) 70.0	Road Condition Excellent	Hole Condition Lost circ.	
Operations at Report Time TIH to drill		Operations Next Report Period Drill curve to landing		
Operations Summary Work on swivel, TOO H 10 stds, Change out swivel, TIH, Break circ, Drlg. f/ 1572'-1616', Build & pump lost circ pills, Drlg. f/ 1616'-1661', Build volume, Spot 40 bbl pill, Pull 10 stds, Build volume, TIH				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	13:00	7.00	7.00	11	Rig Repair	Continue repair of swivel - pull 10 stands DP - change out swivel - make up new swivel - TIH - kelly up - break circulation - swivel repairs complete
13:00	15:30	2.50	9.50	02	Drilling	Drill slide/rotate 1572' to 1616' TMD
15:30	18:00	2.50	12.00	07	Condition and/or Circulate mud	Loss circulation @ 1616' - pull up - mix & spot 17#/bbl LCM - S/D for 15 minutes - break circ - 50% circulation - S/D. Mix & pump 2nd LCM pil - spot let stand for 15 minutes - break circ - full returns. Prepare to drill ahead.
18:00	19:00	1.00	13.00	02	Drilling	Drill slide/rotate 1616' - 1661' TMD
19:00	23:30	4.50	17.50	07	Condition and/or Circulate mud	Build pvt to 500 bbl.
23:30	00:30	1.00	18.50	07	Condition and/or Circulate mud	Spot 40 bbl. 30 lb. per bbl. lcm on bottom
00:30	01:30	1.00	19.50	09	Tripping Out	TOOH 10 stds.
01:30	05:30	4.00	23.50	07	Condition and/or Circulate mud	Build pvt to 500 bbl.
05:30	06:00	0.50	24.00	08	Tripping In	TIH 10 stds.

## BHA #4, Curve

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
4	8 3/4in, FH20, PJ4603	1.00	-----	0.59	27.6
Nozzles (/32")		String Length (ft)		OD (in)	
16/16/16		1,534.29		8.250	

## String Components

Smith FH20, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Directional, NMDC, NMDC, Drill Collar, HWDP

## Comment

Drill curve from 1376' TMD

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	1,572.0	1,661.0	304.00	11.00	25.4	400	30	30	1,300.0	87		

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 35,145.00	Cum Cost To Date 340,120.00
Daily Mud Cost 2,250.00	Mud Cum To Date 35,329.80
Depth Start (ftKB) 1,572.0	Depth End (ftKB) 1,661.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Cool	Temperature (°F) 55.0	Road Condition Excellent	Hole Condition Good	
Operations at Report Time TOOH to p/u rot. steerable tools		Operations Next Report Period Drill lateral section		
Operations Summary TIH, Drlg. f/1661-1879, Rig service, Drlg. f/1879-2135, Circ/cond, TOOH				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:30	0.50	0.50	08	Tripping In	TIH to drill
06:30	18:00	11.50	12.00	02	Drilling	Drlg. f/ 1661-1879, (slide as needed)
18:00	18:30	0.50	12.50	10	Lubricate Rig	Rig service
18:30	02:30	8.00	20.50	02	Drilling	Drlg. f/ 1879-2135, (slide as needed)
02:30	04:00	1.50	22.00	07	Condition and/or Circulate mud	Circ. b/u to clean hole
04:00	06:00	2.00	24.00	09	Tripping Out	TOOH to p/u rot. steerable tools

## BHA #4, Curve

Bit Run 4	Drill Bit 8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO... 25.1
Nozzles (/32") 16/16/16	String Length (ft) 1,534.29	OD (in) 8.250			

## String Components

Smith FH20, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Directional, NMDC, NMDC, Drill Collar, HWDP

## Comment

Drill curve from 1376' TMD

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	1,661.0	2,135.0	778.00	31.00	23.7	450	30	30	1,485.0	76	96	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 52,660.00	Cum Cost To Date 392,780.00
Daily Mud Cost 42,562.00	Mud Cum To Date 77,891.80
Depth Start (ftKB) 1,661.0	Depth End (ftKB) 2,135.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear	Temperature (°F) 55.0	Road Condition Excellent	Hole Condition Tight	
Operations at Report Time TOOH to p/u reamers			Operations Next Report Period Drill lateral section	

## Operations Summary

TOOH to p/u rot. steerable tools, TIH w/ rotary steerable tools, Rig repair (change vibrator hose on mud line, change swedge on swivel), TIH, Test mwd, Rig repair, (change pulsation dampner on #2 mud pump), Test mwd, TIH to 1671' (tight spot, attempt to work thru, no luck), TOOH to p/u reamers

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	08:00	2.00	2.00	09	Tripping Out	L/d 36 jts. hwdp, Finish TOOH
08:00	12:30	4.50	6.50	09	Tripping Out	L/d dir tools, P/u rot. steerable tools
12:30	13:00	0.50	7.00	08	Tripping In	TIH to csg. shoe
13:00	14:30	1.50	8.50	11	Rig Repair	Change vibrator hose on mud line, Change swedge on swivel
14:30	15:48	1.30	9.80	08	Tripping In	TIH, P/u 24 jts. d.p.
15:48	17:18	1.50	11.30	25	Directional Work	Test mwd tools, Bad test, Pump interference
17:18	01:18	8.00	19.30	11	Rig Repair	Change pulsation dampner #2 mud pump, (w/o new bladder 5 hrs.)
01:18	02:48	1.50	20.80	08	Tripping In	Test mwd, P/u 12 jts. d.p., (tight @ 1605' - 1697')
02:48	04:18	1.50	22.30	04	Reaming	P/u kelly & attempt to ream tight spot @ 1697'
04:18	05:48	1.50	23.80	09	Tripping Out	Mix & pump slug, TOOH to p/u reamers

## BHA #3, Reamer

Bit Run   Drill Bit 3   8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO...
Nozzles (/32") 16/16/16	String Length (ft) 1,316.39	OD (in) 8.750		

## String Components

Smith FH20, Bit Sub, HWDP, XO Sub, Reamer, Drill Collar, Reamer - 3 Pt, HWDP, Reamer - 3 Pt, HWDP

## Comment

P/u reamers to ream out tight spots starting @ 1605'

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 1	2,135.0	2,135.0	343.00			0	0	50	0.0			

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 47,475.00	Cum Cost To Date 440,255.00
Daily Mud Cost 20,189.00	Mud Cum To Date 98,080.80
Depth Start (ftKB) 2,135.0	Depth End (ftKB) 2,135.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0



Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Good	
Operations at Report Time Wash/Ream 30' to bottom		Operations Next Report Period Drill lateral section		
Operations Summary TOOH, P/u reamers, TIH, Reaming f/1600-1743, Rig service, Ream f/ 1743-2135, Circ & pump pill, TOOH, L/d reamers, M/u dir tools, TIH, Program mwd, TIH, Test mwd, TIH, Wash/ream 30' to bottom				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:00	1.00	1.00	09	Tripping Out	Finish TOOH
07:00	10:30	3.50	4.50	08	Tripping In	P/u reamers, TIH to 1600'
10:30	15:00	4.50	9.00	04	Reaming	Reaming f/ 1600'-1743'
15:00	15:30	0.50	9.50	10	Lubricate Rig	
15:30	20:00	4.50	14.00	04	Reaming	Reaming f/ 1743'-2135'
20:00	20:30	0.50	14.50	07	Condition and/or Circulate mud	Circ. & build pill
20:30	00:30	4.00	18.50	09	Tripping Out	TOOH & l/d reamers
00:30	03:00	2.50	21.00	08	Tripping In	M/u bit & dir. tools, Program mwd, TIH
03:00	03:30	0.50	21.50	25	Directional Work	Test mwd tools
03:30	05:30	2.00	23.50	08	Tripping In	TIH
05:30	06:00	0.50	24.00	04	Reaming	Wash/ream 30' to bottom

## BHA #5, Steerable

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in <sup>2</sup> )	BHA RO...
5	8 3/4in, HC505ZX, 7118162	0.80	-----		
Nozzles (/32")		String Length (ft)	OD (in)		
		3,227.37	5.000		

## String Components

Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP

## Comment

Start depth 2,135.0

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,135.0	2,135.0				0	0	0	0.0			

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 48,745.00	Cum Cost To Date 489,000.00
Daily Mud Cost 8,138.50	Mud Cum To Date 106,219.30
Depth Start (ftKB) 2,135.0	Depth End (ftKB) 2,135.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition Lost Circ.	
Operations at Report Time TIH to fight lost circ.		Operations Next Report Period Drill lateral section		
Operations Summary Drlg. f/ 2135-2501, Re-log 30' of hole, Drlg. f/2501-2565, Rig service, Drlg. f/ 2565-2869, Lost partial returns, Work pipe & mix & pump lcm pills, TOOHS 30 stds, Mix mud & build volume, Attempt to load hole, no returns				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	12:30	6.50	6.50	02	Drilling	Drlg. f/ 2135 - 2501
12:30	13:00	0.50	7.00	00	Undefined Status	Re-Log 30' section (2471-2501)
13:00	14:00	1.00	8.00	02	Drilling	Drlg. f/ 2501 - 2565
14:00	14:30	0.50	8.50	10	Lubricate Rig	Rig service
14:30	19:00	4.50	13.00	02	Drilling	Drlg. f/ 2565 - 2869
19:00	20:30	1.50	14.50	07	Condition and/or Circulate mud	Work pipe, Mix lcm psweep, Spot lcm pill on bottom
20:30	22:30	2.00	16.50	09	Tripping Out	TOOHS 30 stds.
22:30	05:00	6.50	23.00	07	Condition and/or Circulate mud	Mix mud & build volume
05:00	05:30	0.50	23.50	07	Condition and/or Circulate mud	Attempt to fill hole (lost 100 bbl.)

## BHA #5, Steerable

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
5	8 3/4in, HC505ZX, 7118162	0.80	-----		58.7
Nozzles (/32")		String Length (ft)	OD (in)		
		3,227.37	5.000		

## String Components

Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP

## Comment

Start depth 2,135.0

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,135.0	2,869.0	734.00	12.50	58.7	450	15	110	1,260.0	70	78	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 59,315.00	Cum Cost To Date 548,315.00
Daily Mud Cost 9,102.00	Mud Cum To Date 115,321.30
Depth Start (ftKB) 2,135.0	Depth End (ftKB) 2,869.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b...) 3.140
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0



Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Lost Circ.	
Operations at Report Time Mix lcm & build volume		Operations Next Report Period Drill lateral section		

Operations Summary  
Transfer mud f/ frac tanks, Build volume, TIH to 1700', Pump lcm pill (partial returns), TOO, Stand dir. tools in derrick, TIH w/ bit, Mix lcm in pits, Pump same (110 bbl), Ran out of mud, Mix lcm, build volume, Pump same (102 bbl-Partial returns), TOO 25 stds, Mix lcm & build volume, Pump 75 bbl-partial returns, Mix lcm & build volume, Pump 82 bbl mud downhole (no returns), Transfer mud f/ pre-mix, Build volume, Mix lcm

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	09:00	3.00	3.00	07	Condition and/or Circulate mud	Transfer mud f/ frac tank to pits, Build volume
09:00	09:30	0.50	3.50	08	Tripping In	TIH to 1700'
09:30	10:30	1.00	4.50	07	Condition and/or Circulate mud	Pump lcm (30 lb. per bbl.) - Got very little returns
10:30	12:00	1.50	6.00	09	Tripping Out	TOOH, Stand dir. tools in derrick
12:00	15:30	3.50	9.50	08	Tripping In	TIH w/ bit, bit sub, P/u 14 jts dp
15:30	19:30	4.00	13.50	07	Condition and/or Circulate mud	Build volume, Mix lcm (40+ lbs per bbl), Ran out of mud (got partial returns just as pits ran out of mud)
19:30	21:00	1.50	15.00	09	Tripping Out	TOOH 25 stds to 1320'
21:00	06:00	9.00	24.00	07	Condition and/or Circulate mud	Transfer f/ pre-mix, Mix lcm (40+ lbs per bbl), Pumped 75 bbl (partial returns @ end), Mix mud, lcm(40+ lbs per bbl), Pump 82 bbl (no returns), Transfer mud f/ pre-mix, Mix lcm (40+ lbs per bbl)

## BHA #6, Slick

Bit Run / Drill Bit RR4 8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.00	BHA RO...
Nozzles (/32") 0/0/0	String Length (ft) 2,846.73		OD (in) 5.000	
String Components Smith FH20, Bit Sub, Drill Pipe, HWDP				

Comment  
No jets - Lots of lcm

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,869.0	2,869.0				0	0	0	0.0	0		78

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 56,275.00	Cum Cost To Date 604,590.00
Daily Mud Cost 41,577.00	Mud Cum To Date 156,898.30
Depth Start (ftKB) 2,869.0	Depth End (ftKB) 2,869.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Pt. Cloudy	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Lost Circ.	
Operations at Report Time Mix mud, Wait on orders		Operations Next Report Period Drill lateral section		
Operations Summary Mix mud in pits, TIH to pump lcm, Pump lcm pill, TOO H 10 stds, Build volume, Transfer mud to frac tank, Clean suction pit, Mix diesel m pill, R/u pump truck, Pump diesel m per instructions, Try to squeeze, No press, Mix lcm pill & r/d pump truck, p/U KELLY & SPOT 75 BBL LCM PILL ON BOTTOM				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:30	0.50	0.50	07	Condition and/or Circulate mud	Mix mud, build volume
06:30	07:30	1.00	1.50	08	Tripping In	TIH to spot lcm pill
07:30	08:30	1.00	2.50	07	Condition and/or Circulate mud	Spot lcm pill on bottom
08:30	09:00	0.50	3.00	09	Tripping Out	TOOH 10 stds.
09:00	11:00	2.00	5.00	00	Undefined Status	Wait on orders, Rig service
11:00	20:00	9.00	14.00	07	Condition and/or Circulate mud	Build volume, Transfer mud to frac tanks, Clean suction tank
20:00	23:30	3.50	17.50	07	Condition and/or Circulate mud	Mix Diesel M lcm, R/u pump truck
23:30	04:00	4.50	22.00	07	Condition and/or Circulate mud	Pump 94 bbls Diesel M lcm w/ pump truck, Got partial returns, Close annular & attempt to squeeze, No luck
04:00	06:00	2.00	24.00	07	Condition and/or Circulate mud	Mix 50 lb per bbl lcm pill, spot same, no returns, R/d pump truck

## BHA #6, Slick

Bit Run / Drill Bit RR4 8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.00	BHA RO...
Nozzles (/32") 0/0/0	String Length (ft) 2,846.73	OD (in) 5.000		
String Components Smith FH20, Bit Sub, Drill Pipe, HWDP				
Comment No jets - Lots of lcm				

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,869.0	2,869.0				0	0	0	0.0	0	78	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 76,725.00	Cum Cost To Date 681,315.00
Daily Mud Cost 50,397.30	Mud Cum To Date 207,295.60
Depth Start (ftKB) 2,869.0	Depth End (ftKB) 2,869.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b...) 3.140
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Foggy/Wet	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition Lost Circ, Partial returns	
Operations at Report Time Drlg. lateral section		Operations Next Report Period Drill lateral section		
Operations Summary Wait on orders, Pump 100 bbl mud down backside (nothing), TOO H (slm), P/u new bha TIH to csg shoe, Mix mud & build volume, TIH, Log 100' to bottom, Drlg. f/ 2869'-2889				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	09:30	3.50	3.50	00	Undefined Status	Wait on orders
09:30	10:00	0.50	4.00	07	Condition and/or Circulate mud	Attempt to fill backside (100 bbl, no returns)
10:00	11:30	1.50	5.50	09	Tripping Out	TOOH, (slm), L/d 3 jts. hwdp
11:30	21:00	9.50	15.00	07	Condition and/or Circulate mud	Mix mud & build volume
21:00	00:00	3.00	18.00	08	Tripping In	TIH, Tight spots @ 2200'-2450'
00:00	01:00	1.00	19.00	25	Directional Work	Log 100' to TMD
01:00	03:00	2.00	21.00	02	Drilling	Drlg. f/ 2869' - 2889' (slide as needed)

## BHA #7, Steerable

Bit Run   Drill Bit RR4 8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO... 10.0
Nozzles (/32") 16/16/16	String Length (ft) 2,972.60	OD (in) 6.750		

## String Components

Smith FH20, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Dir & Logging, Drill Collar - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Drill Pipe, HWDP

## Comment

Getting partial returns

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,869.0	2,889.0	20.00	2.00	10.0	315	20	55	790.0			

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 47,037.00	Cum Cost To Date 728,352.00
Daily Mud Cost 16,323.10	Mud Cum To Date 223,618.70
Depth Start (ftKB) 2,869.0	Depth End (ftKB) 2,889.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Foggy/Damp	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition Good	
Operations at Report Time TIH w/ rotary steerable tools		Operations Next Report Period Drill lateral section		
Operations Summary Drlg. f/2889-3347(slide as needed), Build pill, TOO H, L/d mud motor, P/u rot. steerable, Program MWD, TIH, Test mwd, P/u 16 jts dp, TIH, Tight spot @ 2866, Wask/Ream thru tight spot				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	17:00	11.00	11.00	02	Drilling	Drlg. f/ 2889 - 3347, (slide as needed)
17:00	18:00	1.00	12.00	07	Condition and/or Circulate mud	Circ. b/u (2 times), Pump pill
18:00	23:00	5.00	17.00	09	Tripping Out	TOOH (wet), Drain motor, L/d motor, stab, monel
23:00	23:30	0.50	17.50	08	Tripping In	TIH, M/u bit, rot. steerable tools
23:30	00:30	1.00	18.50	25	Directional Work	Program mwd
00:30	02:00	1.50	20.00	08	Tripping In	TIH w/ rot steerable tools
02:00	02:30	0.50	20.50	25	Directional Work	P/u kelly and test mwd tools
02:30	05:30	3.00	23.50	08	Tripping In	TIH, p/u 16 jts dp off rack
05:30	06:00	0.50	24.00	04	Reaming	Tight spot @ 2866, P/u kelly, Fill pipe, Wash/ream f/ 2864-2894

## BHA #7, Steerable

Bit Run   Drill Bit RR4 8 3/4in, FH20, PJ4603	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.59	BHA RO... 36.8
Nozzles (/32") 16/16/16	String Length (ft) 2,972.60	OD (in) 6.750		

## String Components

Smith FH20, Mud Motor - Bent Housing, Stabilizer, XO Sub, MWD - Dir & Logging, Drill Collar - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Drill Pipe, HWDP

## Comment

Getting partial returns

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,889.0	3,347.0	478.00	13.00	41.6	350	20	55	850.0	72	97	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 52,280.00	Cum Cost To Date 780,632.00
Daily Mud Cost 23,834.28	Mud Cum To Date 247,452.98
Depth Start (ftKB) 2,889.0	Depth End (ftKB) 3,347.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Windy	Temperature (°F) 50.0	Road Condition Excellent	Hole Condition Good	
Operations at Report Time Circ. & shake lcm out of mud system		Operations Next Report Period Drill lateral section		
Operations Summary Finish TIH, Wash/ream/log 60' to bottom, Drlg. f/3347-3481, Circ. & shake lcm out, TOOH f/ downhole tool failure, Test power drive, P/u new bha, TIH, Safety shutdown(lighting), TIH, Circ, Drlg. f/3480-3568,Circ, Drlg. f/3568-3603, Circ (shake lcm out)				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:00	1.00	1.00	08	Tripping In	Finish TIH
07:00	08:00	1.00	2.00	04	Reaming	Wash/Ream/Log 60' to bottom
08:00	10:18	2.30	4.30	02	Drilling	Drlg. f/ 3347 - 3481 (downhole tool failure)
10:18	13:18	3.00	7.30	07	Condition and/or Circulate mud	Circ. - shake lcm out of mud system
13:18	16:18	3.00	10.30	09	Tripping Out	TOOH f/ tool failure
16:18	18:48	2.50	12.80	00	Undefined Status	Test dir. tools @ surface
18:48	20:48	2.00	14.80	08	Tripping In	P/u dir. tools, TIH
20:48	21:18	0.50	15.30	28	Wait on Weather	Safety shutdown (lighting)
21:18	00:18	3.00	18.30	08	Tripping In	TIH to tmd
00:18	01:18	1.00	19.30	07	Condition and/or Circulate mud	Circ.
01:18	02:48	1.50	20.80	02	Drilling	Drlg. f/ 3481 - 3568
02:48	03:48	1.00	21.80	07	Condition and/or Circulate mud	Circ. & clean hole
03:48	04:48	1.00	22.80	02	Drilling	Drlg. f/ 3568 - 3603, (Downhole tool failure)
04:48	05:48	1.00	23.80	07	Condition and/or Circulate mud	Circ. & shake lcm out of mud system

## BHA #5, Steerable

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
5	8 3/4in, HC505ZX, 7118162	0.80	-----	0.79	83.9
Nozzles (/32")	String Length (ft)	OD (in)			
12/12/12/12/12/13	4,233.71	5.000			

## String Components

Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP

## Comment

Start depth 2,135.0

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	2,869.0	3,603.0	1,468....	17.50	146.8	450	20	1	1,500.0	70	89	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 52,276.00	Cum Cost To Date 832,908.00
Daily Mud Cost 15,691.20	Mud Cum To Date 263,144.18
Depth Start (ftKB) 2,869.0	Depth End (ftKB) 3,603.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b...) 3.140
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Cool	Temperature (°F) 50.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time Drill lateral section		Operations Next Report Period Drill lateral section		
Operations Summary Circ/cond - shake lcm out of system, TOO, L/d dir. tools, Function test bope, Cut-off drlg. line, Circ/cond build volume, P/u dir. tools, Circ/cond build volume, TIH, Drlg. f/3603-3903				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	09:30	3.50	3.50	07	Condition and/or Circulate mud	Circ/cond mud - Shake lcm out of system
09:30	14:00	4.50	8.00	09	Tripping Out	TOOH, L/d dir. tools
14:00	14:30	0.50	8.50	22	Test BOP	Function test bope
14:30	16:00	1.50	10.00	12	Cut/Slip Drilling Line	Cut drlg. line
16:00	18:00	2.00	12.00	07	Condition and/or Circulate mud	Circ/cond mud - circ pits & shake mors lcm out
18:00	19:00	1.00	13.00	08	Tripping In	P/u dir. tools
19:00	20:30	1.50	14.50	07	Condition and/or Circulate mud	Build volume
20:30	00:30	4.00	18.50	08	Tripping In	TIH, test dir. tools
00:30	06:00	5.50	24.00	02	Drilling	Drlg. f/ 3603' - 3903'

## BHA #8, Steerable

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
RR5	8 3/4in, HC505ZX, 7118162	0.80	-----	0.79	54.5
Nozzles (/32")		String Length (ft)		OD (in)	
12/12/12/12/12/13		4,232.62		5.000	
String Components					
Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP					
Comment					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	3,603.0	3,903.0	300.00	5.50	54.5	475	27	120	1,580.0	68	84	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 64,623.00	Cum Cost To Date 897,531.00
Daily Mud Cost 14,991.00	Mud Cum To Date 278,135.18
Depth Start (ftKB) 3,603.0	Depth End (ftKB) 3,903.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0



Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy/Damp	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time TOOH to work on pumps		Operations Next Report Period Drill lateral section		
Operations Summary Circ, work on pump, Drlg. f/3903-3996, Rig service, Drlg f/3996-4177, Circ, Drlg. f/4177-4207, Circ work on #2 pump, Drlg f/4207-4299, Circ work on pulsation dampner #2 pump, Pump slug & TOOH (l/d 34 jts hwdp), Change pulsation dampner #2 pump, TIH (p/u 32 jts dp), Drlg f/4306-4334, Circ & pump slug, TOOH to work on pumps				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:30	0.50	0.50	07	Condition and/or Circulate mud	Circ & work on pump
06:30	08:00	1.50	2.00	02	Drilling	Drlg. f/ 3903 - 3996
08:00	08:30	0.50	2.50	10	Lubricate Rig	Rig service
08:30	11:30	3.00	5.50	02	Drilling	Drlg. f/ 3996 - 4177
11:30	12:00	0.50	6.00	07	Condition and/or Circulate mud	Circ hole clean
12:00	12:30	0.50	6.50	02	Drilling	Drlg. f/ 4177 - 4207
12:30	13:00	0.50	7.00	11	Rig Repair	Circ. & work on #2 pump
13:00	14:00	1.00	8.00	02	Drilling	Drlg. f/ 4207 - 4299
14:00	15:00	1.00	9.00	11	Rig Repair	Circ. & work on pulsation dampner #2 pump
15:00	19:00	4.00	13.00	11	Rig Repair	TOOH (l/d 34 jts hwdp)
19:00	20:30	1.50	14.50	11	Rig Repair	Change pulsation dampner #2 pump
20:30	23:30	3.00	17.50	11	Rig Repair	TIH (p/u 32 jts dp)
23:30	00:30	1.00	18.50	02	Drilling	Drlg. f/ 4299 - 4334
00:30	06:00	5.50	24.00	11	Rig Repair	Circ, pump slug, TOOH

## BHA #8, Steerable

Bit Run / Drill Bit RR5 8 3/4in, HC505ZX, 7118162	Length (ft) 0.80	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.79	BHA RO... 58.5
Nozzles (/32") 12/12/12/12/12/13	String Length (ft) 5,302.36	OD (in) 5.000		

## String Components

Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP

## Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	3,903.0	4,334.0	731.00	12.50	61.6	475	17	120	1,450.0	78	110	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 65,380.00	Cum Cost To Date 962,911.00
Daily Mud Cost 21,144.00	Mud Cum To Date 299,279.18
Depth Start (ftKB) 3,903.0	Depth End (ftKB) 4,334.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor Thomas B. Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b...) 4.310
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b...) 3.140
Pres (psi)	Slow Spd No	Strokes (s...) Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Cloudy/Damp	Temperature (°F) 60.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time Re-log 168'		Operations Next Report Period Drill lateral section		
Operations Summary Change out dir. tools, Repair mud pumps, (pulsation dampner), TIH, Cirs, Downlink to dir. tools, Was/ream to bottom, Rig repair (change swabs in #2 mud pump), Re-log 168' of new hole				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	20:30	14.50	14.50	11	Rig Repair	Change dir. tools, Repair mud pumps, TIH 17 stds, Repair mud pumps, TIH
20:30	23:00	2.50	17.00	25	Directional Work	Circ, downlink to dir. tools
23:00	02:00	3.00	20.00	02	Drilling	Drig. f/ 4334 - 4502
02:00	04:00	2.00	22.00	11	Rig Repair	Rig repair, (change 3 swabs in #2 mud pump)
04:00	06:00	2.00	24.00	25	Directional Work	Re-log 168' of new hole

## BHA #8, Steerable

Bit Run / Drill Bit RR5 8 3/4in, HC505ZX, 7118162	Length (ft) 0.80	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.79	BHA RO... 58.0
Nozzles (/32") 12/12/12/12/12/13	String Length (ft) 5,302.36	OD (in) 5.000		
String Components Hughes HC505ZX, Mud Motor, MWD - Dir & Logging, MWD - Dir & Logging, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Float Sub, MWD - Dir & Logging, Drill Pipe, HWDP				
Comment				

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	4,334.0	4,502.0	899.00	15.50	56.0	475	21	120	1,480.0	65	110	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 64,453.00	Cum Cost To Date 1,027,364.00
Daily Mud Cost 11,710.00	Mud Cum To Date 310,989.18
Depth Start (ftKB) 4,334.0	Depth End (ftKB) 4,502.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drig, 32

Contractor Union Drig	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0



Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Foggy	Temperature (°F) 65.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time Trip f/ pressure loss		Operations Next Report Period Drill lateral section		
Operations Summary Re-log to 4517, Drlg. f/ 4517-4635, Rig service, Drlg. f/ 4635-4697, Re-log f/ 4666-4697, TOOH f/ pressure loss, L/d dir tools, Go thru #2 mud pump, P/u dir tools, TIH (test tools every 20stds), Circ, TOOH 5 stds f/ pressure loss				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:30	1.50	1.50	25	Directional Work	Re-log f/ 4320 - 4517
07:30	09:00	1.50	3.00	02	Drilling	Drlg. f/ 4517 - 4635
09:00	09:30	0.50	3.50	10	Lubricate Rig	Rig service
09:30	10:30	1.00	4.50	02	Drilling	Drlg. f/ 4635 - 4697
10:30	11:00	0.50	5.00	11	Rig Repair	Go thru #2 mud pump f/ pressure loss
11:00	12:00	1.00	6.00	25	Directional Work	Re-log f/ 4635 - 4697
12:00	17:00	5.00	11.00	09	Tripping Out	TOOH f/ pressure loss
17:00	18:00	1.00	12.00	09	Tripping Out	L/d dir. tools
18:00	21:00	3.00	15.00	11	Rig Repair	Go completely thru #2 mud pump
21:00	23:00	2.00	17.00	08	Tripping In	P/u dir. tools
23:00	04:00	5.00	22.00	08	Tripping In	TIH, kelly up and check pressure every 20 stds
04:00	04:30	0.50	22.50	07	Condition and/or Circulate mud	Circ/cond
04:30	06:00	1.50	24.00	09	Tripping Out	TOOH f/ pressure loss

## BHA #8, Steerable

Bit Run / Drill Bit RR5 8 3/4in, HC505ZX, 7118162	Length (ft) 0.80	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.79	BHA RO... 60.8
Nozzles (/32") 12/12/12/12/16/16	String Length (ft) 5,311.77	OD (in) 5.000		

## String Components

Hughes HC505ZX, Mud Motor, Stabilizer - Non Mag, Float Sub, XO Sub - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Stabilizer - Non Mag, Drill Collar - Flex Non Mag, Drill Collar - Flex Non Mag, Drill Pipe, HWDP

## Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Original Hole	4,502.0	4,697.0	1,094....	18.00	78.0	475	21	120	1,480.0	65	100	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 52,336.00	Cum Cost To Date 1,079,700.00
Daily Mud Cost 8,750.00	Mud Cum To Date 319,739.18
Depth Start (ftKB) 4,502.0	Depth End (ftKB) 4,697.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Cool	Temperature (°F) 66.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time Drill lateral section @ 5696' TMD		Operations Next Report Period LDDP for prod csg		

Operations Summary  
Drill lateral 4697' to 5696' TMD - cont to have hole seepage

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	08:30	2.50	2.50	08	Tripping In	TIH looking for wash out in DP kelly up - no holes/leaks found - aerated mud (?)
08:30	09:00	0.50	3.00	10	Lubricate Rig	Daily rig service
09:00	09:30	0.50	3.50	02	Drilling	Drill lateral to 4739' TMD
09:30	10:30	1.00	4.50	07	Condition and/or Circulate mud	Build mud volume in pits
10:30	16:30	6.00	10.50	02	Drilling	Drill lateral to 5014' TMD
16:30	17:00	0.50	11.00	07	Condition and/or Circulate mud	Circ & recip pipe for hole clean
17:00	20:30	3.50	14.50	02	Drilling	Drill lateral to 5230' TMD
20:30	21:30	1.00	15.50	07	Condition and/or Circulate mud	Circ & recip pipe for hole clean
21:30	23:30	2.00	17.50	02	Drilling	Drill lateral to 5352' TMD
23:30	00:00	0.50	18.00	07	Condition and/or Circulate mud	Circ & recip pipe for hole clean
00:00	01:30	1.50	19.50	02	Drilling	Drill lateral to 5475' TMD
01:30	02:00	0.50	20.00	07	Condition and/or Circulate mud	Circ & recip pipe for hole clean
02:00	03:30	1.50	21.50	02	Drilling	Drill lateral to 5601' TMD
03:30	04:00	0.50	22.00	07	Condition and/or Circulate mud	Circ & recip pipe for hole clean
04:00	06:00	2.00	24.00	02	Drilling	Drill lateral to 5696' TMD (HwtDP at btm of curve - losing wt effect)

## BHA #9, Steerable

Bit Run 6	Drill Bit 8 3/4in, HC506ZX, 7116047	Length (ft) 1.00	IADC Bit Dull -----	TFA (incl Noz) (in²) 0.79	BHA RO... 58.8
Nozzles (/32") 12/12/12/12/16/16		String Length (ft)		OD (in)	

String Components

Hughes HC506ZX

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 2	4,697.0	5,696.0	999.00	17.00	58.8	475	20	117	1,600.0	75	120	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

AFE Number USA08011	Total AFE Amount
Daily Cost Total 72,525.00	Cum Cost To Date 1,152,225.00
Daily Mud Cost 31,500.29	Mud Cum To Date 351,239.47
Depth Start (ftKB) 4,697.0	Depth End (ftKB) 5,696.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
<b>Union Drlg, 32</b>	
Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0



## Storm Cat Energy Daily Drilling Report

Report for: 5/15/2008  
Report #: 23.0, DFS: 54.25  
Depth Progress: 999.00

Well Name: Owen 1-18H

### Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

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Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
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Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00
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Weather Clear/Warm	Temperature (°F) 75.0	Road Condition Excellent	Hole Condition Seepage
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Operations at Report Time Condition hole for prod csg	Operations Next Report Period Run prod csg & cement
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Operations Summary  
TD @ 5821' - Circ - TOOH - L/D direct tools - TIH w/DP

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:30	0.50	0.50	02	Drilling	Drill from 5696' to 5727'
06:30	07:00	0.50	1.00	10	Lubricate Rig	Daily rig service
07:00	08:00	1.00	2.00	02	Drilling	Drill 5727' to 5821' - TD well @ 0800 on 5-16-08
08:00	11:30	3.50	5.50	07	Condition and/or Circulate mud	Circ hole @ TD. Rotate/reciprocate pipe - monitor shakers. Pull 1 jt DP. Circ/rotate additional time. Hole appears clean.
11:30	13:00	1.50	7.00	09	Tripping Out	Pump 1# over mud weight slug - TOOH w/ DP. Pulled tite. Pull 13 stands.
13:00	15:00	2.00	9.00	07	Condition and/or Circulate mud	L/D single. Kelly up. Circulate hole. Monitor shakers.
15:00	18:30	3.50	12.50	09	Tripping Out	TOOH. Pulled tite for 5 stands - weight pipe at top of curve - pulling easy. TOOH.
18:30	19:00	0.50	13.00	11	Rig Repair	Repair break out tong.
19:00	20:00	1.00	14.00	09	Tripping Out	TOOH to top of Schlumberger tools.
20:00	21:30	1.50	15.50	11	Rig Repair	Repair break out tong - replace pin. Call for new tongs from yard.
21:30	23:30	2.00	17.50	09	Tripping Out	TOOH & L/D ALL Schlumberger direct tools.
23:30	05:00	5.50	23.00	08	Tripping In	Make-up RR 8 3/4" bit. TIH w/ DP. Pipe started to float. Circ csg. TIH w/20 stands. Circulate. Continue in hole.
05:00	06:00	1.00	24.00	11	Rig Repair	Blew main hydraulic hose. Repairing.

## BHA #9, Steerable

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
6	8 3/4in, HC506ZX, 7116047	1.00	-----	0.79	60.8

Nozzles (/32")	String Length (ft)	OD (in)
12/12/12/12/16/16		

String Components  
Hughes HC506ZX

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq
Leg 2	5,696.0	5,821.0	1,124....	18.50	83.3	475	20	117	1,600.0	75	120	

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 73,830.00	Cum Cost To Date 1,226,055.00
Daily Mud Cost 10,591.00	Mud Cum To Date 361,830.47
Depth Start (ftKB) 5,696.0	Depth End (ftKB) 5,821.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Warm	Temperature (°F) 78.0	Road Condition Excellent	Hole Condition Seepage	
Operations at Report Time Running prod csg @ 4800'		Operations Next Report Period Cement csg - set slips RDMO UDI 32		
Operations Summary Repair hyd hose - TIH w/ DP - circulate/condition hole - LDDP - Run 5 1/2" prod csg				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	07:00	1.00	1.00	11	Rig Repair	Repair hydraulic hose
07:00	08:00	1.00	2.00	08	Tripping In	TIH to condition for prod csg
08:00	09:00	1.00	3.00	07	Condition and/or Circulate mud	Fill DP - Circulate hole
09:00	09:30	0.50	3.50	08	Tripping In	TIH - P/U additional DP to replace Schlumberger tools
09:30	16:00	6.50	10.00	07	Condition and/or Circulate mud	Circulate @ TD. Recip/circulate/rotate drill string. Circ 1.5 hrs - pull 1 jt - tite - circulate - run fiber sweep - run walnut hull sweep - spot graphite slug in lateral to curve
16:00	00:30	8.50	18.50	09	Tripping Out	R/U GRACO lay down machine - TOO H - LDDP (minimal drag) - L/D head rubber - spinners
00:30	01:00	0.50	19.00	00	Undefined Status	Safety meeting w/ csg crew
01:00	06:00	5.00	24.00	15	Run Casing	R/U GRACO csg crew - run 5 1/2" prod csg - ran Davis-Lynch flotation collar @ 3808' - csg floating - start filling ever jt - csg going in hole - fill every 2 to 3 jts - continue to run prod csg

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
Nozzles (/32")		String Length (ft)		OD (in)	
String Components					
Comment					

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 40,650.00	Cum Cost To Date 1,266,705.00
Daily Mud Cost 13,003.78	Mud Cum To Date 374,834.25
Depth Start (ftKB) 5,821.0	Depth End (ftKB) 5,821.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Surface, 650.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi) No	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi) No	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Warm	Temperature (°F) 80.0	Road Condition Excellent	Hole Condition Cemented	
Operations at Report Time Release rig - RDMO		Operations Next Report Period RDMO UDI # 32		
Operations Summary Run 128 jts 5 1/2" - 5797' TMD - circ - push sleeve - cement w/ Schlumberger - cut csg - RD UDI # 32				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	08:00	2.00	2.00	15	Run Casing	Run 128 jts - 5 1/2" 17# - land @ 5797' TMD
08:00	09:00	1.00	3.00	07	Condition and/or Circulate mud	Rupture flotation collar - circulate well
09:00	12:00	3.00	6.00	7	Condition and/or Circulate mud	R/D csg crew - pump plug & push flotation sleeve to btm w/ rig pump - circulate well & R/U cementers
12:00	13:30	1.50	7.50	16	Cementing	Schlumberger pumped 30 bbls Chem Wash, 145 sx 40/60 Lead @ 11.8#, 475 sx TXI Tail @ 13.0#, displace plug w/ 132 bbls water w/ biocide. Plug down @ 1315 hrs - float held OK.
13:30	06:00	16.50	24.00	01	Rig Up & Tear Down	WOC. Nipple down BOP. Set slips on csg (75k tension). Clean pits & transfer mud to storage. Riggging down for move.

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
Nozzles (/32")		String Length (ft)	OD (in)		

String Components

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 183,885.00	Cum Cost To Date 1,450,590.00
Daily Mud Cost 9,805.68	Mud Cum To Date 279,390.67
Depth Start (ftKB) 5,821.0	Depth End (ftKB) 5,821.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Production, 5,798.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi) No	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi) No	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0







# Storm Cat Energy Daily Drilling Report

Report for: 5/20/2008  
Report #: 28.0, DFS: 59.25  
Depth Progress: 0.00

Well Name: Owen 1-18H

API/UWI 03-141-10355	Surface Legal Location SH: 1710' FSL & 235' FEL BH: 4769' FSL & 3640' FEL	County Van Buren	State/Province Arkansas	Field Name B-43
Spud Date 3/23/2008	Completion Date	Ground Elevation (ft) 1,681.00	KB-Ground Distance (ft) 15.00	
Weather Clear/Hot	Temperature (°F) 85.0	Road Condition Excellent	Hole Condition W/O Comp.	
Operations at Report Time Wait on completion			Operations Next Report Period Wait on completion	
Operations Summary L/D derrick. Move rig to Roberts 1-13H				

## Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Code 1	Code 2	Comment
06:00	06:00	24.00	24.00	01	Rig Up & Tear Down	Lay down derrick. Stanley Trucking moved all equipment to Roberts 1-13H.

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA RO...
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Nozzles (/32")	String Length (ft)	OD (in)
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String Components

Comment

Wellbore	Start (ftKB)	End (ftKB)	Cum Depth (ft)	Cum Drill Time (hrs)	Int ROP (ft/hr)	Q (flow) (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Rot HL (1000lbf)	PU HL (1000lbf)	Drill Tq

## Kicks

Kick Date	Kick Depth (ftKB)	Kick Vol (bbl)	Kill Notes	Ops In Prog

## Logs

Date	Type	Top (ftKB)	Btm (ftKB)	Logging Company	Run No.	Comment
3/25/...	Dipmeter	100.0	984.0	Halliburton	2	
3/25/...	Platform Express - Spectral density - Dual spaced neutron-resistivity-Mi...	100.0	984.0	Halliburton	1	

## Formations

Formation Name	Form Code	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Source	Comment

AFE Number USA08011	Total AFE Amount
Daily Cost Total 3,775.00	Cum Cost To Date 1,458,940.00
Daily Mud Cost	Mud Cum To Date 279,390.67
Depth Start (ftKB) 5,821.0	Depth End (ftKB) 5,821.0
Target Formation Fayetteville Shale	Target Depth (ftKB) 5,988.0
Last Casing String Production, 5,798.0ftKB	

## Daily Contacts

Job Contact	Mobile
David Majors	337-408-3014
Thomas B. Majors	337-408-3014

## Union Drlg, 32

Contractor Union Drlg	Rig Number 32
Rig Supervisor David Majors	Phone Mobile 337-408-3014

## 1, Continental-Emsco, F-1000

Pump Number 1	Pwr (hp) 1,000.0	Rod Dia (in) 2 1/2
Liner Size (in) 6 1/2	Stroke (in) 10.00	Vol/Stk OR (b... 4.310
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## 2, Continental-Emsco, F-800

Pump Number 2	Pwr (hp) 800.0	Rod Dia (in) 2 1/2
Liner Size (in) 6	Stroke (in) 9.02	Vol/Stk OR (b... 3.140
Pres (psi)	Slow Spd No	Strokes (s... Eff (%)

## Wellbores

Wellbore Name Original Hole	Kick Off Depth (ftKB)
Wellbore Name Leg 1	Kick Off Depth (ftKB) 988.0
Wellbore Name Leg 2	Kick Off Depth (ftKB) 2,135.0