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INV #2974  
 2408

WORK ORDER #

RIG#: 471 Patterson	DATE OF ORDER:
COMPANY NAME: Tughill Operating	STARTING DATE: <del>2-28-12</del> 2-29-12
LEASE NAME: Edmondson #118H	ORDER TAKEN BY:
LEGAL DESCRIPTION:	ORDER BY:
	PHONE #:

DIRECTIONS:

Face Rig	N	E	S	W	Pipe	Fuel - Rig:
Rat Hole					Note	Fuel - Vehicle:
Mouse Hole 75'					Cement	Credit Card Expenses:
Conductor 20'					Mud Truck	
Cellar 7x7					Pump Truck	
Tin Horn ✓					Welding	

AF 110

- Drilled ~~80~~ 80' of 30" Conductor Hole
- Drilled 7' of 84" Hole & Set 7 x 7 Tinhorn Cellar
- Furnished Backhoe
- Furnished 80' of 20" Conductor Pipe
- Furnished Shucks \_\_\_\_\_ Rat \_\_\_\_\_ Mouse
- Furnished Mud, Water, & Trucking
- Furnished Welder & Materials
- Furnished Grout
- Furnished Grout Pump
- Drilled Rat & Mouse Holes
- Rock Time \_\_\_\_\_ Hrs  
 75' of 16" pipe for mouse hole

TOTAL BID \$21,100.00

STATE SALES TAX \_\_\_\_\_ %

COUNTY SALES TAX \_\_\_\_\_ %

INSURANCE SURCHARGE \_\_\_\_\_

FUEL SURCHARGE \_\_\_\_\_

TOTAL INVOICE \$21,100.00



# Daily Drilling Report

11/12/2012 1:49 PM

Well Information					
Well Edmonston 1-28H			AFE Number 12-0101		Report Date 3/2/2012
Country USA	State KS	County Comanche	Field Wildcat		Lease 200' FSL, 660' FEL
API / IPO UWI Comanche			Orig KB Elev (ft)	Ground Elevation (ft) 1967.0	KB-GRD (ft) -1967.0
Qtr/Qtr, Block, Sec, Town, Range .28,31S,20W				Spud Date 4/26/2012	Rig Release Date 5/12/2012

Daily Operations		
24 Hour Summary Crew to location. Dig down install cellar ring. Drill 26" hole F/ 6' T/ 83'. Damp @ 25' mud up. Back in red bed @ 35'. Run 20" Conductor T/ 83'. Pull vacuum and grout in backside Conductor. Wash up. Leave rig over hole holding pipe. SDFN. WOC.		
24 Hr Forecast Drill Mouse Hole		
Operations At Report Time WOC		
Daily Total (Cost) \$16997.00	Cum Daily Total (cost) \$177333.53	Total AFE (Cost) \$0.00

Daily Contacts	
Wellsite Supervisor Jay Lewis	Supervisor Phone 570-560-2611

## Time Log

Mud Checks								
Type	Depth (ftKB)	Source	Density (lb/gal)	Funnel Viscosity (s/qt)	Filtrate (mL/30min)			
HTHP Filtrate (ml/30min)	Mud Lost Hole (bbl)	Mud Lost (Surf) (bbl)		PV(cp)	YP (lb/100ft²)	pH		
Vis 6rpm	Lime (lb/bbl)	Gel 30 min (lb/100ft²)		Gel 30 min (lb/100ft²)	Gel 10 sec (lb/100ft²)	Gel 10 min (lb/100ft²)		
Calcium (mg/L)	Ca CL (wt%)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)

## Bit Record

## BHA

Drilling Parameters						
Start Depth (ftKB)		End Depth (ftKB)	Cum Depth Drilled (ft) 0	Total ROP (ft/hr) NaN	Drilling Torque	
Motor RPM (rpm)	RPM (rpm)	QGas Inj (ft³/min)	Drilling Time (hr)	Rotating Time (hr)	Circulation Time (hr)	
Cum Drilling Time (hr)		SPP (psi)	Flow Rate (gpm)	TFA (incl Noz) (in²)	Weight on Bit (lbf)	String Wt (lbf)

## Pump Operations

## Hydraulic Data

## Survey Data