

**Folgers #228 Drilling**

Well	Folgers #228	Rig	Energy Drilling #14	Days Since Spud	10
API #	42-123-31749	Rig Phone #		AFE Amt / #	\$1,534,600 / D7384
Field	Coffee Valley	RKB	20.5'	Cum Cost	\$1,209,134
Location	Section 002, T10S-R03W	Ground Elevation	11.8'	Daily Cost	\$54,987
County, State	Dewitt, TX	Water Depth		Proposed (MD/TVD)	13,521' 13,500'
Permit #	251532			Present (MD/TVD)	7,211' 7,193'
Supervisors	Eugene Troxell			Daily Progress	1,189'

**Activity Summary** Drill to 6148'. Circ. Sweep, Wiper trip to 3530'. Adjust brakes. TIH. Drill to 6148'. Change seat in mud pump #1. Drill to 7211.

**Activity Planned** Drill to 1800 hrs. CBU. Wiper trip to 6022'. Drilling ahead.

FROM	TO	HRS	ACTIVITY	DEPTH	HOURLY COMMENTS
6:00	8:00	2.00	Drilling	6,148'	Drilling and sliding to stay on directional plan from 6022 ft. to 6148 ft. For 126' ft. 165 SPM, 700 GPM, 3000 PSI, 70 RPM, 1200-3500 ft/lbs torque.
8:00	9:00	1.00	Circulating	6,148'	Circulate 40 bbl hi vis sweep w/ LCM to surface at 6148 ft. Working and rotating pipe. 165 SPM, 700 GPM, 2800 PSI, 70 RPM, 1300 ft/lbs torque
9:00	10:30	1.50	Tripping	6,148'	Pump slug, Short trip from 6148 ft. to 3530 ft. 30-40k drag in spots. Work back down through spots and excessive drag gone.
10:30	11:00	0.50	Rig Service	6,148'	Adjust brakes on drawworks, rig service.
11:00	12:30	1.50	Tripping	6,148'	Trip back in hole from 3530 ft to 6148 ft. Hole taking proper fillups.
12:30	14:00	1.50	Drilling	6,294'	Drilling and sliding to stay on directional plan from 6148 ft. to 6294 ft. For 146' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque. Max gas after short trip 70 units.
14:00	15:30	1.50	Rig Repairs	6,294'	Change seat and valve on #1 mud pump. Discharge valve between pumps was leaking preventing pumping with #2 mud pump. Changed paddle and rubbers on discharge valve.
15:30	6:00	14.50	Drilling	7,211'	Drilling and sliding to stay on directional plan from 6294 ft. to 7211 ft. For 917' ft. 165 SPM, 691 GPM, 3200 PSI, 70 RPM, 2000-5500 ft/lbs torque
<b>Total Hrs:</b>		24.00	<b>Job Total Hrs:</b>		408.00

**Additional Notes**

Casing Record											
Type	Size	Weight	Grade	Thread	Hole Size	Top (MD)	Btm (MD)	Btm (TVD)	TOC	Cmt Sxs	FIT/LOT
Conductor	20.000 "	104.13	X-42			0'	187'	187'	0'		
Surface	13.380 "	61.00	J-55			0'	3,557'	3,557'	0'	2590	14.9 ppg FIT
Intermediate	9.630 "	53.50	P-110						Planned		
Liner	8.500 "	29.70	EXP						Planned		
Liner	7.000 "	29.00	HCP-110						Planned		
Production	5.000 "	18.00	HCP-110						Planned		

Bit Record														
#	Size	Make	Model	S/N	Jets	Dpth In	Dpth Out	Hours	RPM	ROP	WOB	Press.	GPM	Grade
1	17.500 "	Taurex	GP-1P	J44659	3 X 18, 1 X 16	25'	3,560'	39.0	80	91.2	20	1650	684	2,2,WT,A,E,I,NO,TD
2	12.250 "	Taurex	HP-IPGC	1910829	3 X 18, 1 X 16	3,560'		31.0	171	180.0	30	3150	670	

BOP Stack							
Type	Make	Model	Size	WP	TP	Last BOP Test	Next BOP Test
Annular	Hydril	GK	13.625 "	5,000	3,500	1/1/2020	1/21/2020
Choke	MAN		2.063 "	5,000	5,000	1/1/2020	1/21/2020
Pipe Rams	LWS	DBL	13.625 "	5,000	5,000	1/1/2020	1/21/2020

Drilling Parameters										
Depth	ROP	RPM	WOB	B.G. Gas	Torque	Mud WT	PU WT	SO WT	RT WT	Remarks
6,980'				11	5.0	9.80	180	170	175	Clay, sand

Mud Record		BHA			Total Length 1,016.08'		Pump Data				
Type	WBM	No.	OD	ID	Description	Length	Number	1	2		
Mud Comp	BCS Fluids	1			12 1/4 HA-IPGC 3X18,1X16	0.95'	Stroke	12.00"	12.00"		
Depth	7,015'	2			MUD MOTOR 7:8X4.0,1.5 DEG,166	28.42'	Liner Size	6.00"	6.00"		
Time	12:00 AM	3			11 3/4 STAB	7.53'	Pump Rate (GPM)	345.00	347.00		
Mud Weight In/Out	9.80/9.80	4			UBHO	2.72'	Efficiency %	95.00	95.00		
Viscosity	45.00	5			NMDC MWD COLLAR	28.64'	SPM	82	83		
PV	10.00	6			NMDC	29.28'	Pressure	3,200	3,200		
YP	12.00	7			DP XO	3.02'	<b>On Board Inventory</b>				
WL	10.00	8			24 HWDP	730.97'	Material	24 hr Usage	Received	On Hand	
HTHP		9			DRILLING JARS	30.66'	Fuel - gal	1,794	6,734	11,886	
Cake	2.00	10			5 JTS HWDP	153.89'	Barite - ton			693	
Solids								Cement - sks			0
pH	9.20	<b>Health, Safety &amp; Environment</b>									
CI	4200.00	Accidents									
Gels	12.00 / 34.00 / 44.00	Spills									
<b>Mud Additives</b>		POL			22						
Additive Name	QTY	Temperature/Wind			41 °F - 4 mph NNE						
Super seal	10	Weather			Clear						
Caustic	6	Waves									
Lime	4										
Lig / nut plug	45										

Intangible Costs					
Cost Name	Code	Amount	Cumulative	Remarks	Vendors
<b>Mobilization</b>	<b>162-10</b>		<b>\$117,045.00</b>		
Lump Sum	162-10.1		\$117,045.00		
<b>Rig</b>	<b>162-11</b>	<b>\$15,000.00</b>	<b>\$148,751.00</b>		
Drilling Dayrate	162-11.1	\$15,000.00	\$148,751.00	Dayrate	Energy Drilling
<b>Fluids</b>	<b>162-12</b>	<b>\$5,769.00</b>	<b>\$101,904.00</b>		
Mud' Materials, Chemicals & Additives	162-12.1	\$964.00	\$29,078.00		
		\$330.00		Super seal	BCS Fluids
		\$472.00		Lig / nut plug	BCS Fluids
		\$162.00		Tax	BCS Fluids
Mud' Engineer	162-12.2	\$2,000.00	\$25,647.00	Mud engineer	Eagle Consultants
Mud' Rentals	162-12.22	\$105.00	\$525.00	2 - bulk tanks and air pump	BCS Fluids
Solids Control Equipment	162-12.3	\$2,700.00	\$38,190.00	PMI Closed loop system, personnel	PMI
Other	162-12.5		\$8,464.00		
<b>Rentals</b>	<b>162-13</b>	<b>\$3,634.00</b>	<b>\$65,097.00</b>		
HWDP	162-13.03	\$420.00	\$2,940.00	4-1/2" HWT DP (15 jts), (420/day while in hole)	Knight Oil Tools
BOP's/Manifold/Etc.	162-13.1	\$510.00	\$3,060.00	13 5/8" BOP single rental	Patterson
Tester Personnel	162-13.12		\$8,460.00		
Communications	162-13.13	\$225.00	\$2,700.00	Rig phone system	Oilfield Instrumentation
Forklift	162-13.14	\$150.00	\$3,150.00	10k forklift	Rusco Services
Surface rentals	162-13.16	\$295.00	\$4,415.00	200kw gen. for PMI Equip.	Jewel Rentals
Test Plug/Wear Bushing	162-13.16.3	\$105.00	\$525.00	Wear bushing and retrieving tool	Warrior Energy Services
Trip Tank	162-13.16.4		\$560.00		
Pumps	162-13.16.5	\$122.00	\$1,304.00	3" diaphragm pumps and hoses	Jewel Rentals
Other	162-13.16.6		\$8,627.00		
Misc rentals	162-13.17	\$230.00	\$6,890.00	Light towers (4)	Jewel Rentals
Trailers, sewer, water	162-13.18	\$392.00	\$6,457.00	4 trailers, water and sewer systems, trash bin (25/day)	Jewel Rentals
Generators	162-13.19	\$386.00	\$7,334.00	2 generators for house trailers	Jewel Rentals
Jars	162-13.5	\$299.00	\$2,093.00	Drilling Jars(299/day while in hole)	Knight Oil Tools
Data Monitoring System	162-13.7	\$500.00	\$6,000.00	Rig monitoring system	Oilfield Instrumentation
Inspection and Damages	162-13.8		\$582.00		
<b>Cementing</b>	<b>162-16</b>		<b>\$57,525.00</b>		
Cementing	162-16.1		\$51,995.00		
Float Equipment	162-16.2		\$3,430.00		
Centalizers	162-16.3		\$2,100.00		
<b>Bits, Stabilizers, Other DH Equip</b>	<b>162-17</b>		<b>\$18,950.00</b>		
Bits & Mills	162-17.1		\$17,950.00		
Stabilizers	162-17.2		\$1,000.00		
<b>Tubular Services</b>	<b>162-18.1</b>		<b>\$47,857.00</b>		
Casing Crews	162-18.1.1		\$16,361.00		
PU LD Machine	162-18.1.2		\$5,862.00		
Other	162-18.1.7		\$25,634.00		
<b>Labor</b>	<b>162-21</b>		<b>\$9,463.00</b>		
Roustabouts	162-21.3		\$2,123.00		
Wellhead	162-21.4		\$5,780.00		
SVC Personnel	162-21.5		\$1,560.00		
<b>Supervision</b>	<b>162-22</b>	<b>\$3,600.00</b>	<b>\$55,600.00</b>		
Consultant	162-22.1	\$2,800.00	\$42,000.00	Ben Perry and Jeff Brouard	Stokes & Sphierer
Engineering	162-22.4	\$800.00	\$13,600.00	Engineering services	Eagle Consultants
<b>Transportation</b>	<b>162-23</b>	<b>\$2,925.00</b>	<b>\$29,407.00</b>		
Trucking	162-23.1		\$15,592.00		
Other	162-23.7	\$2,925.00	\$13,815.00	Trucking for disposal of WBM/cuttings	Omni Environmental Solutions
<b>Disposal</b>	<b>162-25</b>	<b>\$9,710.00</b>	<b>\$70,994.00</b>		
Cuttings	162-25.2	\$9,710.00	\$65,913.00		R 360
Other	162-25.3		\$5,081.00		
<b>Directional Survey/Drilling</b>	<b>162-26</b>	<b>\$9,350.00</b>	<b>\$62,992.00</b>		
Operator	162-26.1	\$9,350.00	\$58,225.00	DDS Personnel/equipment	Downhole Drilling Services
Gyros/Multishot	162-26.4		\$4,767.00		
<b>Permits &amp; Locations</b>	<b>162-360</b>		<b>\$131,600.00</b>		
Location Construction	162-360.3		\$131,600.00		
<b>Fuel, Electricity, Water</b>	<b>162-370</b>		<b>\$62,856.00</b>		
Fuel	162-370.1		\$44,272.00		
Water	162-370.2		\$18,584.00		
<b>Contingency</b>	<b>162-999</b>	<b>\$4,998.80</b>	<b>\$98,004.00</b>	10%	
<b>Total Intangible Costs:</b>		<b>\$54,986.80</b>	<b>\$1,078,045.00</b>		
Tangible Costs					
Cost Name	Code	Amount	Cumulative	Remarks	Vendors
<b>Casing</b>	<b>163-210</b>		<b>\$124,357.00</b>		
<b>Wellhead</b>	<b>163-230</b>		<b>\$6,732.00</b>		
Trees	163-230.2		\$6,732.00		
<b>Total Tangible Costs:</b>		<b>\$0.00</b>	<b>\$131,089.00</b>		
<b>Total Costs:</b>		<b>\$54,986.80</b>	<b>\$1,209,134.00</b>		