

Folgers #228 Drilling

Report # 17

Report Date 1/1/2022

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.
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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		
Total Hrs: 24.00		Job Total Hrs: 408.00					

Additional Notes	
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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			On Board Inventory				
Type	WBM		No.	OD	ID	Description		Length	Number	1	2	Material	24 hr Usage	Received	On Hand
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 '							
WL	10.00		8			24 HWDP		730.97 '							
HTHP			9			DRILLING JARS		30.66 '							
Cake	2.00		10			5 JTS HWDP		153.89 '							
Solids															
pH	9.20														
CI	4200.00														
Gels	12.00 / 34.00 / 44.00														
Mud Additives															
Additive Name	QTY														
Super seal	10														
Caustic	6														
Lime	4														
Lig / nut plug	45														

Intangible Costs					
Cost Name	Code	Amount	Cumulative	Remarks	Vendors
Mobilization	162-10		\$117,045.00		
Lump Sum	162-10.1		\$117,045.00		
Rig	162-11	\$15,000.00	\$148,751.00		
Drilling Dayrate	162-11.1	\$15,000.00	\$148,751.00	Dayrate	Energy Drilling
Fluids	162-12	\$5,769.00	\$101,904.00		
Mud' Materials, Chemicals & Additives	162-12.1	\$964.00	\$29,078.00		
		\$330.00		<i>Super seal</i>	BCS Fluids
		\$472.00		<i>Lig / nut plug</i>	BCS Fluids
		\$162.00		<i>Tax</i>	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		
Rentals	162-13	\$3,634.00	\$65,097.00		
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" diaphram 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		
Cementing	162-16		\$57,525.00		
Cementing	162-16.1		\$51,995.00		
Float Equipment	162-16.2		\$3,430.00		
Centralizers	162-16.3		\$2,100.00		
Bits, Stabilizers, Other DH Equip	162-17		\$18,950.00		
Bits & Mills	162-17.1		\$17,950.00		
Stabilizers	162-17.2		\$1,000.00		
Tubular Services	162-18.1		\$47,857.00		
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		
Labor	162-21		\$9,463.00		
Roustabouts	162-21.3		\$2,123.00		
Wellhead	162-21.4		\$5,780.00		
SVC Personnel	162-21.5		\$1,560.00		
Supervision	162-22	\$3,600.00	\$55,600.00		
Consultant	162-22.1	\$2,800.00	\$42,000.00	Ben Perry and Jeff Brouard	Stokes & Spiebler
Engineering	162-22.4	\$800.00	\$13,600.00	Engineering services	Eagle Consultants
Transportation	162-23	\$2,925.00	\$29,407.00		
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
Disposal	162-25	\$9,710.00	\$70,994.00		
Cuttings	162-25.2	\$9,710.00	\$65,913.00		R 360
Other	162-25.3		\$5,081.00		
Directional Survey/Drilling	162-26	\$9,350.00	\$62,992.00		
Operator	162-26.1	\$9,350.00	\$58,225.00	DDS Personnel/equipment	Downhole Drilling Services
Gyros/Multishot	162-26.4		\$4,767.00		
Permits & Locations	162-360		\$131,600.00		
Location Construction	162-360.3		\$131,600.00		
Fuel, Electricity, Water	162-370		\$62,856.00		
Fuel	162-370.1		\$44,272.00		
Water	162-370.2		\$18,584.00		
Contingency	162-999	\$4,998.80	\$98,004.00	10%	
Total Intangible Costs:		\$54,986.80	\$1,078,045.00		

Tangible Costs					
Cost Name	Code	Amount	Cumulative	Remarks	Vendors
Casing	163-210		\$124,357.00		
Wellhead	163-230		\$6,732.00		
Trees	163-230.2		\$6,732.00		
Total Tangible Costs:		\$0.00	\$131,089.00		
Total Costs:		\$54,986.80	\$1,209,134.00		