



NABORS

SLIDE & ROTATING REPORT

Customer:
Field:
County, State:

Nemo Fund 1, LLC
Dickenson / San Andres
Lea, NM

Rig Name & No.: Capstar 133
Well Name & No.: Larry 18 SA # 1-03H
Job #: B0180

MODE	DEPTH FROM	DEPTH TO	FEET MADE	SURVEY DEPTH	INC	AZI	DLS	BUILD RATE	MOTOR OUTPUT	SLIDE SEEN	SLIDE AHEAD	DLN	SIDE / ROTATE (Based on Formula)	MTF / GTF	WOB (1K lbs)	RPM	PUMP GPM	PUMP PRESSURE
Rotate	40	232	192	167	1.00°	71.74°	0.43°	0.43°					Surface		10.00	25.00	400.00	500.00
Rotate	232	401	169	336	0.38°	46.60°	0.65°	-0.60°							10.00	50.00	450.00	900.00
Rotate	401	544	143	479	0.44°	38.87°	0.04°	0.03°							10.00	50.00	450.00	900.00
Rotate	544	714	170	649	0.56°	26.74°	0.13°	0.09°							10.00	50.00	450.00	1000.00
Rotate	714	885	171	820	0.56°	19.00°	0.04°	0.00°							10.00	50.00	450.00	1000.00
Rotate	885	1,055	170	990	0.69°	14.69°	0.08°	0.08°							10.00	60.00	450.00	1000.00
Rotate	1,055	1,226	171	1,161	0.63°	359.31°	0.11°	-0.04°							15.00	60.00	450.00	1000.00
Rotate	1,226	1,396	170	1,331	0.63°	1.25°	0.01°	0.00°							15.00	60.00	450.00	1000.00
Rotate	1,396	1,567	171	1,502	0.81°	3.18°	0.11°	0.11°							15.00	60.00	450.00	1000.00
Rotate	1,567	1,737	170	1,672	0.75°	329.96°	0.26°	-0.04°							20.00	60.00	450.00	1000.00
Rotate	1,737	1,907	170	1,842	0.63°	312.38°	0.14°	-0.07°							20.00	60.00	450.00	1000.00
Rotate	1,907	2,078	171	2,013	0.25°	311.33°	0.22°	-0.22°							20.00	60.00	450.00	1100.00
Rotate	2,078	2,248	170	2,183	0.44°	359.49°	0.19°	0.11°							25.00	60.00	450.00	1100.00
Rotate	2,248	2,305	57	2,240	0.44°	356.33°	0.04°	0.00°					Surface TD		25.00	60.00	450.00	1100.00
Rotate	2,305	2,340	35										Intermediate		10.00	20.00	360.00	700.00
Rotate	2,340	2,482	142	2,434	0.25°	22.69°	0.13°	-0.10°							15.00	40.00	450.00	1100.00
Rotate	2,482	2,653	171	2,605	0.06°	137.13°	0.16°	-0.11°							15.00	40.00	450.00	1100.00
Rotate	2,653	2,823	170	2,775	0.31°	239.78°	0.19°	0.15°							15.00	40.00	450.00	1100.00
Rotate	2,823	2,993	170	2,945	0.69°	215.53°	0.25°	0.22°							15.00	40.00	450.00	1100.00
Rotate	2,993	3,164	171	3,116	0.75°	210.08°	0.05°	0.04°							15.00	40.00	450.00	1100.00
Rotate	3,164	3,335	171	3,287	0.38°	275.29°	0.40°	-0.22°							15.00	40.00	450.00	1100.00
Rotate	3,335	3,505	170	3,457	0.38°	245.76°	0.11°	0.00°							15.00	40.00	450.00	1100.00
Rotate	3,505	3,675	170	3,627	0.44°	160.15°	0.26°	0.03°							15.00	40.00	450.00	1200.00
Rotate	3,675	3,846	171	3,798	0.25°	193.90°	0.22°	-0.15°							15.00	40.00	450.00	1200.00
Rotate	3,846	4,016	170	3,968	0.44°	103.20°	0.30°	0.11°							15.00	40.00	450.00	1200.00
Rotate	4,016	4,187	171	4,139	0.69°	85.45°	0.18°	0.15°							15.00	40.00	450.00	1300.00
Rotate	4,187	4,357	170	4,309	0.50°	95.47°	0.13°	-0.11°							15.00	40.00	450.00	1300.00
Rotate	4,357	4,400	43	4,352	0.38°	73.49°	0.48°	-0.28°					Intermediate TD		15.00	40.00	450.00	1300.00
Slide	4,400	4,442	42	4,394	0.31°	49.76°	0.38°	-0.17°		0.00	42.00		KO Curve	300M	14.00	0.00	450.00	1300.00
Slide	4,442	4,485	43	4,437	1.75°	290.58°	4.47°	3.35°		37.00	48.00			300M	14.00	0.00	450.00	1300.00
Slide	4,485	4,528	43	4,480	4.56°	296.74°	6.57°	6.53°	6.50°	43.00	48.00	11.10°		300M	15.00	0.00	450.00	1300.00
Slide	4,528	4,570	42	4,522	7.50°	301.83°	7.11°	7.00°	7.11°	42.00	48.00	11.50°		300M	15.00	0.00	450.00	1300.00
Slide	4,570	4,613	43	4,565	10.50°	304.30°	7.03°	6.98°	7.03°	43.00	48.00	12.06°		HS	20.00	0.00	450.00	1300.00
Slide	4,613	4,653	40	4,604	13.50°	304.65°	7.69°	7.69°	7.69°	42.00	49.00	12.40°		HS	15.00	0.00	450.00	1350.00
Slide	4,653	4,696	43	4,647	17.63°	308.187	9.95°	9.60°	9.95°	42.00	49.00	12.50°		HS	15.00	0.00	450.00	1350.00
Slide	4,696	4,738	42	4,689	23.88°	306.05°	15.07°	14.88°	15.00°	42.00	49.00	11.20°		HS	15.00	0.00	450.00	1350.00
Slide	4,738	4,781	43	4,732	29.81°	306.76°	13.81°	13.79°	13.81°	43.00	49.00	11.00°		30L	15.00	0.00	450.00	1350.00
Slide	4,781	4,823	42	4,774	36.13°	302.89°	15.85°	15.05°	16.90°	43.00	49.00	10.10°		30L	15.00	0.00	450.00	1350.00
Slide	4,823	4,866	43	4,817	42.96°	299.37°	16.10°	15.20°	16.10°	42.00	49.00	9.50°		HS	20.00	0.00	450.00	1450.00
Rotate	4,866	4,876	10												20.00	40.00	450.00	1450.00
Slide	4,876	4,908	32	4,859	47.81°	299.55°	12.19°	12.19°	12.19°	42.00	39.00	9.70°		HS	30.00	0.00	450.00	1450.00
Slide	4,908	4,951	43	4,902	53.69°	300.60°	13.80°	13.67°	17.70°	33.00	49.00	6.50°		HS	30.00	0.00	450.00	1450.00
Rotate	4,951	4,966	15												20.00	40.00	450.00	1450.00
Slide	4,966	4,994	28	4,945	60.19°	301.66°	15.26°	15.12°	15.26°	43.00	34.00	6.50°		HS	30.00	0.00	450.00	1450.00
Rotate	4,994	5,011	17												20.00	40.00	450.00	1400.00
Slide	5,011	5,036	25	4,987	65.38°	302.54°	12.50°	12.36°	19.60°	27.00	32.00	5.30°		HS	30.00	0.00	450.00	1450.00
Rotate	5,036	5,059	23												20.00	40.00	450.00	1450.00
Slide	5,059	5,079	20	5,030	69.63°	303.42°	10.06°	9.88°	16.44°	26.00	26.00	4.50°		HS	30.00	0.00	450.00	1450.00
Rotate	5,079	5,101	22												20.00	40.00	450.00	1500.00
Slide	5,101	5,121	20	5,072	72.69°	303.24°	7.30°	7.29°	16.30°	19.00	27.00	3.80°		HS	30.00	0.00	450.00	1500.00
Rotate	5,121	5,144	23												20.00	40.00	450.00	1500.00
Slide	5,144	5,164	20	5,115	76.88°	303.24°	9.70°	9.70°	19.40°	21.00	26.00	5.30°		HS	30.00	0.00	450.00	1500.00
Rotate	5,164	5,190	26												20.00	40.00	450.00	1550.00
Slide	5,190	5,206	16	5,157	80.63°	304.30°	9.20°	8.90°	20.00°	19.00	23.00	5°		85R	30.00	0.00	450.00	1550.00
Rotate	5,206	5,236	30												20.00	40.00	450.00	1550.00
Slide	5,236	5,249	13	5,200	81.81°	307.11°	7.02°	2.74°	17.00°	17.00	19.00	10.00°		85R	30.00	0.00	450.00	1550.00
Rotate	5,249	5,276	27												20.00	40.00	450.00	1550.00
Slide	5,276	5,292	16	5,243	82.19°	310.27°	7.33°	0.88°	20.00°	13.00	22.00	9.50°		85R	30.00	0.00	450.00	1550.00
Rotate	5,292	5,317	25												20.00	40.00	450.00	1550.00
Slide	5,317	5,334	17	5,285	81.75°	314.13°	9.58°	-1.05°	26°	15.00	24.00	9.60°		85R	30.00	0.00	450.00	1550.00
Rotate	5,334	5,358	24												20.00	40.00	450.00	1550.00
Slide	5,358	5,377	19	5,328	81.94°	318.01°	8.53°	0.44°	21°	17.00	25.00	9.80°		80R	30.00	0.00	450.00	1550.00
Rotate	5,377	5,402	25												20.00	40.00	450.00	1550.00
Slide	5,402	5,420	18	5,371	83.38°	321.87°	9.51°	3.35°	21°	19.00	20.00	9.80°		80R	30.00	0.00	450.00	1550.00
Rotate	5,420	5,444	24												20.00	40.00	450.00	1550.00
Slide	5																	



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Job #: B0180

MODE	DEPTH FROM	DEPTH TO	FEET MADE	SURVEY DEPTH	INC	AZI	DLS	BUILD RATE	MOTOR OUTPUT	SLIDE SEEN	SLIDE AHEAD	DLN	SIDE / ROTATE (Based on Formula)	MTF / GTF	WOB (1K lbs)	RPM	PUMP GPM	PUMP PRESSURE
Rotate	5.675	5.693	18												22.00	40.00	450.00	1600.00
Slide	5.693	5.718	25	5.669	86.75°	347.01°	10.83°	2.19°	21.00°	21.00	31.00	9.00°		60R	40.00	0.00	450.00	1600.00
Rotate	5.718	5.746	28												22.00	40.00	450.00	1600.00
Slide	5.746	5.761	15	5.712	86.56°	352.46°	12.66°	-0.44°	21.50°	25.00	21.00			45R	40.00	0.00	450.00	1600.00
Rotate	5.761	5.771	10												22.00	40.00	450.00	1600.00
Slide	5.771	5.791	20	5.742	86.50°	354.74°	7.59°	-0.20°	21.00°	6.00	35.00	0.00°		OHS	40.00	0.00	450.00	1600.00
Rotate	5.791	5.821	30	5.772	88.38°	357.21°	10.34°	6.27°		16.00	19.00				22.00	40.00	450.00	1600.00
Rotate	5.821	5.851	30	5.802	90.25°	357.73°	6.47°	6.23°		19.00	0.00				22.00	40.00	450.00	1600.00
Rotate	5.851	5.879	28	5.830	90.25°	357.73°	0.00°	0.00°		0.00	0.00				22.00	40.00	450.00	1600.00
Rotate	5.879	5.911	32	5.860	90.06°	357.91°	0.87°	0.00°		0.00	0.00				22.00	40.00	450.00	1600.00
Rotate	5.911	5.937	26										Start bha #4		20.00	60.00	450.00	1450.00
Rotate	5.937	5.965	28												20.00	60.00	450.00	1450.00
Rotate	5.965	5.995	30	5.948	90.19°	358.44°	0.62°	0.15°							20.00	60.00	450.00	1500.00
Rotate	5.995	6.079	84	6.032	89.94°	359.67°	1.49°	-0.30°							20.00	60.00	450.00	1600.00
Rotate	6.079	6.167	88	6.120	90.19°	0.72°	1.23°	0.28°							20.00	60.00	450.00	1700.00
Rotate	6.167	6.253	86	6.206	90.38°	1.25°	0.65°	0.22°							20.00	60.00	450.00	1700.00
Rotate	6.253	6.312	59												20.00	60.00	460.00	1800.00
Slide	6.312	6.327	15											70L	35.00	0.00	460.00	1800.00
Rotate	6.327	6.340	13	6.293	89.50°	3.36°	2.63°	-1.10°							20.00	60.00	460.00	1800.00
Rotate	6.340	6.370	30												20.00	60.00	460.00	1800.00
Slide	6.370	6.396	26											40L	35.00	0.00	460.00	1800.00
Rotate	6.396	6.426	30	6.379	89.19°	0.72°	3.09°	-0.36°		9.00	17.00				20.00	60.00	460.00	1800.00
Rotate	6.426	6.457	31												20.00	60.00	460.00	1800.00
Slide	6.457	6.472	15											OHS	35.00	0.00	460.00	1800.00
Rotate	6.472	6.519	47	6.472	90.50°	358.96°	2.36°	1.41°		32.00	5.00				20.00	60.00	460.00	1800.00
Rotate	6.519	6.550	31												20.00	60.00	460.00	1800.00
Rotate	6.550	6.580	30												20.00	60.00	460.00	1800.00
Rotate	6.580	6.611	31	6.564	90.00°	359.31°	0.66°	-0.54°							20.00	60.00	460.00	1800.00
Rotate	6.611	6.642	31	6.595	89.75°	359.31°	-								20.00	60.00	460.00	1800.00
Rotate	6.642	6.652	10												20.00	60.00	460.00	1800.00
Slide	6.652	6.667	15											60L	20.00	60.00	460.00	1800.00
Rotate	6.667	6.672	5	6.625	89.50°	359.31°									20.00	60.00	460.00	1800.00
Rotate	6.672	6.703	31	6.656	89.56°	358.08°	1.42°	-0.48°		4.00	11.00				20.00	60.00	460.00	1800.00
Rotate	6.703	6.734	31	6.687	89.38°	356.68°									20.00	60.00	460.00	1800.00
Slide	6.734	6.754	20											HS	30.00		460.00	1800.00
Rotate	6.754	6.766	12	6.719	89.69°	356.50°					20.00				20.00	60.00	460.00	1800.00
Rotate	6.766	6.797	31	6.750	90.56°	358.08°				16.00	4.00				20.00	55.00	460.00	1800.00
Rotate	6.797	6.827	30	6.780	90.75°	359.14°									20.00	55.00	460.00	1800.00
Rotate	6.827	6.858	31	6.811	90.38°	359.14°									20.00	55.00	460.00	1800.00
Rotate	6.858	6.889	31	6.842	89.94°	359.31°	1.50°	-0.67°							20.00	55.00	460.00	1800.00
Slide	6.889	6.899	10											30L	20.00		460.00	1800.00
Rotate	6.899	6.920	21	6.873	90.06°	358.96°					10.00				24.00	55.00	460.00	1800.00
Rotate	6.920	6.951	31	6.904	90.38°	359.31°				10.00					24.00	55.00	460.00	1800.00
Rotate	6.951	6.982	31	6.935	90.44°	359.31°	0.54°	0.54°							24.00	55.00	460.00	1800.00
Rotate	6.982	7.013	31	6.966	90.69°	359.84°									24.00	55.00	460.00	1900.00
Rotate	7.013	7.043	30	6.996	91.00°	0.19°									24.00	55.00	460.00	1900.00
Rotate	7.043	7.074	31	7.027	91.25°	0.37°	1.45°	0.88°							24.00	55.00	460.00	2000.00
Slide	7.074	7.088	14											150L	24.00	55.00	460.00	2000.00
Rotate	7.088	7.178	90	7.131	90.75°	358.96°	1.44°	-0.48°		14.00					24.00	55.00	460.00	2000.00
Rotate	7.178	7.244	66												24.00	55.00	460.00	2100.00
Slide	7.244	7.264	20	7.217	89.13°	1.07°	3.09°	-1.08°						20L	35.00	0.00	460.00	2100.00
Rotate	7.264	7.349	85	7.302	89.50°	1.78°	0.94°	0.44°		20.00					24.00	55.00	460.00	2100.00
Rotate	7.349	7.361	12												24.00	55.00	460.00	2100.00
Slide	7.361	7.391	30											20L	35.00	0.00	460.00	2100.00
Rotate	7.391	7.409	18												24.00	55.00	460.00	2100.00
Slide	7.409	7.434	25	7.387	89.38°	2.13°	0.44°	-0.14°		27.00	3.00				35.00	0.00	460.00	2100.00
Slide	7.434	7.462	28											OHS	35.00	0.00	460.00	2100.00
Rotate	7.462	7.519	57	7.472	91.63°	359.84°	3.87°	2.65°	?	57.00	0.00				24.00	55.00	460.00	2200.00
Rotate	7.519	7.561	42	7.514	90.69°	0.90°									24.00	55.00	460.00	2200.00
Rotate	7.561	7.604	43	7.557	90.50°	1.07°	1.96°	-1.33°							24.00	55.00	460.00	2200.00
Rotate	7.604	7.611	7												24.00	55.00	460.00	2200.00
Slide	7.611	7.631	20											70L	50.00		460.00	2200.00
Rotate	7.631	7.647	16	7.600	90.06°	0.72°				0.00	20.00				24.00	55.00	460.00	2200.00
Rotate	7.647	7.690	43	7.643	89.31°	359.67°	2.14°	-1.38°		20.00	0.00				24.00	55.00	460.00	2200.00
Slide	7.690	7.720	30											50L	50.00		460.00	2200.00
Rotate	7.720	7.732	12	7.685	89.94°	0.37°									24.00	55.00	460.00	2200.00
Rotate	7.732	7.775	43	7.728	90.06°	359.84°				22.00	8.00				24.00	55.00	460.00	2200.00
Rotate	7.775	7.818	43	7.771	89.56°	0.37°									24.00	55.00	460.00	2200.00
Slide	7.818	7.848	30											60L	50.00		460.00	2200.00
Rotate	7.848	7.860	12	7.813	89.88°	0.55°				0.00	30.00				24.00	55.00	460.00	2200.00
Rotate	7.860	7.903	43	7.856	91.31°	359.31°				30.00	0.00				26.00	45.00	460.00	2200.00
Rotate	7.903	7.946	43	7.899	91.19°	359.49°									26.00	45.00	460.00	2200.00
Rotate	7.946	8.030	84	7.983	91.69°	359.14°	0.73°	0.60°							26.00	45.00	460.00	2200.00
Rotate	8.030	8.115	85	8.068	92.25°	0.02°	1.23°	0.66°							26.00	45.00	460.00	2200.00
Rotate	8.115	8.133	18												26.00	45.00	460.00	2200.00



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MODE	DEPTH FROM	DEPTH TO	FEET MADE	SURVEY DEPTH	INC	AZI	DLS	BUILD RATE	MOTOR OUTPUT	SLIDE SEEN	SLIDE AHEAD	DLN	SIDE / ROTATE (Based on Formula)	MTF / GTF	WOB (1K lbs)	RPM	PUMP GPM	PUMP PRESSURE
Slide	8,133	8,158	25											120L	40.00	0.00	460.00	2200.00
Rotate	8,158	8,176	18												26.00	45.00	460.00	2200.00
Slide	8,176	8,201	25	8,154	91.06°	359.31°	1.61°	-1.39°		21.00	29.00			140L	40.00	0.00	460.00	2200.00
Rotate	8,201	8,286	85	8,239	88.81°	357.56°	3.35°	-2.65°		29.00	0.00				26.00	45.00	460.00	2200.00
Rotate	8,286	8,371	85	8,324	88.81°	358.08°	0.61°	0.00°							26.00	45.00	460.00	2200.00
Rotate	8,371	8,394	23												26.00	45.00	460.00	2200.00
Slide	8,394	8,414	20											30L	40.00	0.00	460.00	2200.00
Rotate	8,414	8,456	42	8,409	90.19°	358.08°	1.62°	1.62°		15.00	5.00				26.00	45.00	460.00	2200.00
Rotate	8,456	8,499	43	8,452	90.56°	358.44°				5.00	0.00				26.00	45.00	460.00	2200.00
Rotate	8,499	8,541	42	8,494	90.69°	358.08°	0.59°	0.59°							26.00	45.00	460.00	2200.00
Rotate	8,541	8,584	43	8,537	91.06°	358.26°									26.00	45.00	460.00	2200.00
Rotate	8,584	8,627	43	8,580	91.19°	358.44°	0.57°	0.49°							26.00	45.00	460.00	2200.00
Rotate	8,627	8,669	42	8,622	91.13°	358.79°									26.00	45.00	460.00	2200.00
Rotate	8,669	8,712	43	8,665	90.81°	359.61°	1.51°	-0.45°							26.00	45.00	460.00	2200.00
Rotate	8,712	8,755	43	8,708	90.75°	0.55°									26.00	45.00	460.00	2200.00
Rotate	8,755	8,797	42	8,750	90.44°	1.07°	1.70°	-0.44°							26.00	45.00	460.00	2200.00
Rotate	8,797	8,807	10											90L	26.00	0.00	460.00	2200.00
Slide	8,807	8,827	20												26.00	45.00	460.00	2200.00
Rotate	8,827	8,840	13	8,793	90.13°	0.55°				0.00	20.00				26.00	45.00	460.00	2200.00
Rotate	8,840	8,883	43	8,836	89.75°	358.08°				20.00	0.00				26.00	45.00	460.00	2200.00
Rotate	8,883	8,925	42	8,878	89.50°	358.26°									26.00	45.00	460.00	2200.00
Rotate	8,925	8,968	43	8,921	89.31°	358.96°									26.00	45.00	460.00	2200.00
Rotate	8,968	9,053	85	9,006	88.56°	1.42°	3.03°	-0.88°							26.00	45.00	460.00	2200.00
Rotate	9,053	9,070	17												26.00	45.00	460.00	2200.00
Slide	9,070	9,095	25											30L	40.00	0.00	460.00	2200.00
Rotate	9,095	9,108	13												26.00	45.00	460.00	2200.00
Slide	9,108	9,125	17											30L	40.00	0.00	460.00	2200.00
Rotate	9,125	9,138	13	9,091	88.94°	0.90°	0.76°	0.45°		20.00	21.00				26.00	45.00	460.00	2200.00
Rotate	9,138	9,224	86	9,177	89.69°	1.78°	1.34°	0.87°		21.00					26.00	35.00	460.00	2200.00
Rotate	9,224	9,239	15												26.00	35.00	460.00	2200.00
Slide	9,239	9,266	27											30L	40.00	0.00	460.00	2200.00
Rotate	9,266	9,308	42	9,261	90.31°	89.75°	3.57°	-0.80°	15?	20.00	0.00				26.00	35.00	460.00	2200.00
Rotate	9,308	9,394	86	9,347	91.06°	359.49°	1.07°	0.87°							26.00	35.00	460.00	2200.00
Rotate	9,394	9,479	85	9,432	90.63°	359.84°	0.65°	-0.51°							26.00	35.00	460.00	2200.00
Rotate	9,479	9,564	85	9,517	90.69°	359.84°	0.07°	0.07°							26.00	35.00	460.00	2200.00
Rotate	9,564	9,649	85	9,602	90.50°	0.37°	1.31°	-0.44°							26.00	35.00	460.00	2200.00
Rotate	9,649	9,735	86	9,688	89.68°	1.25°	0.93°	-0.63°							26.00	35.00	460.00	2200.00
Rotate	9,735	9,820	85	9,773	89.19°	1.60°	0.72°	-0.59°							26.00	35.00	460.00	2200.00
Rotate	9,820	9,906	86	9,859	99.56°	1.95°	0.84°	-0.73°							26.00	35.00	460.00	2200.00
Rotate	9,906	9,950	44	9,903	88.25°	1.60°	1.06°	-0.70°					TD well		26.00	35.00	460.00	2200.00