NABORS

BOTTOM HOLE ASSEMBLY	# 1

WELL INFORMATION		DIRECTIONAL RESPONSE				BIT INFO.	
OIL COMPANY	Nemo Fund 1,LLC		IN	OUT	CHANGE RATE	SIZE	12 1/4"
RIG #:	Capstar 133	DATE	1/28/2017	1/29/2017	2	TYPE	U616S
LOCATION	Lea, NM	DEPTH (MD)	40	2305	2265	JETS	6x14
WELL	Larry 18 SA # 1-03H	DEPTH (TVD)	40	2305	2265	SER #	25128
JOB NUMBER	B0180	INCLINATION	0	0.44	0.44	FEET	2265
DIRECTIONAL SUPERVISOR	Bryan Mills / Alex Castillo	AZIMUTH	0	356.33	356.33	HOURS	18.5
CUSTOMER OFFICE CONTACT	Richard Wright	SLIDE PERCENT	0	0	0%	ROP	122.43
CUSTOMER WELLSITE SUPERVISOR	Chuck Nunnelee	MUD-WT.-TYPE	WBM	WBM	WBM	DULL	
OBJECTIVE:	Drill Surface						
COMMENTS:							

ITEM #	TOOL	COMPANY	SER. #	CONN. UP	CONN. DOWN	O.D.	I.D.	FISH NECK	BLADE O.D.	LENGTH	SUBTOTAL
1	PDC Bit - U616S 6x14	Ulterra	25128	6 5/8" Reg		12 1/4"				1.25	1.25
2	1.50 FBH 7/8 4.0 w 11 3/4" Stab Sleeve	Nabors	RY800023	6 5/8" Reg	6 5/8" Reg	8"			11 3/4"	28.35	29.60
3	11 3/4" Stabilizer	Stabil Drill	SD603916	6 5/8" Reg	6 5/8" Reg	8"	2 7/8"	4.64	11 3/4"	7.58	37.18
4	NM Pony	Nabors	RY800016SP	6 5/8" Reg	6 5/8" Reg	8"	2 7/8"			14.99	52.17
5	Accu MP	Nabors	M2034	6 5/8" Reg	6 5/8" Reg	8"				28.83	81.00
6	NMDC	Stabil Drill	SD45482	6 5/8" Reg	6 5/8" Reg	8"	2 7/8"			30.22	111.22
7	3 Jts. 8" DC	Rig	Rig	6 5/8" Reg	6 5/8" Reg	8"				92.70	203.92
8	XO	Rig	Rig	4 1/2" XH	6 5/8" Reg	8"				1.75	205.67
9	12 Jts. 6" DC	Rig	Rig	4 1/2" XH	4 1/2" XH	6"				338.66	544.33
	Bit to Bend: 5.85'										
	Bit to Survey: 65'										
	Revs/ gal: 0.16										
	Make Diff: 900 psi										
	Flow Range: 400-900 gpm										
										TOTAL	544.33

NABORS

BOTTOM HOLE ASSEMBLY	# 2

WELL INFORMATION		DIRECTIONAL RESPONSE				BIT INFO.	
OIL COMPANY	Nemo Fund 1,LLC		IN	OUT	CHANGE RATE	SIZE	8 3/4"
RIG #:	Capstar 133	DATE	1/30/2017	2/1/2017	3	TYPE	U616M
LOCATION	Lea, NM	DEPTH (MD)	2305	4613	2308	JETS	6x16
WELL	Larry 18 SA # 1-03H	DEPTH (TVD)	2305	4610	2305	SER #	33104
JOB NUMBER	B0180	INCLINATION	0.44	10.5	10.06	FEET	2308
DIRECTIONAL SUPERVISOR	Bryan Mills / Alex Castillo	AZIMUTH	356.33	304.3	-52.03	HOURS	30.8
CUSTOMER OFFICE CONTACT	Richard Wright	SLIDE PERCENT	0		0%	ROP	74.94
CUSTOMER WELLSITE SUPERVISOR	Chuck Nunnelee	MUD-WT.-TYPE	Brine	Brine	WBM	DULL	
OBJECTIVE:	Drill Intermediate / Curve						
COMMENTS:							

ITEM #	TOOL	COMPANY	SER. #	CONN. UP	CONN. DOWN	O.D.	I.D.	FISH NECK	BLADE O.D.	LENGTH	SUBTOTAL
1	PDC Bit	Ultera	33104	4 1/2" Reg		8 3/4"				1.00	1.00
2	2.12° FBH 6/7 5.0 True Slick	Nabors	RY650655	4 1/2" IF	4 1/2" IF	6 3/4"		1.51		25.37	26.37
3	Pony NMDC	Nabors	SD46423	4 1/2" IF	4 1/2" IF	6 11/16"	2 3/4"			9.90	36.27
4	ACCU MP	Nabors	M2016	4 1/2" IF	4 1/2" IF	6 3/4"				28.52	64.79
5	NMDC	Stabil Drill	SD46954	4 1/2" IF	4 1/2" IF	6 3/4"	2 7/8"			28.96	93.75
6	X-Over	Nabors	RY25390	4 1/2" XH	4 1/2" IF	6 3/4"	2 7/8"			3.01	96.76
	Bit to Bend: 3.93										
	Bit to Survey: 48										
	Bit to Gamma: 47										
	Revs/ gal: 0.29										
	Make Diff: 1130 psi										
	Flow Range: 300-600 gpm										
										TOTAL	96.76

NABORS

BOTTOM HOLE ASSEMBLY	# 3

WELL INFORMATION		DIRECTIONAL RESPONSE				BIT INFO.	
OIL COMPANY	Nemo Fund 1,LLC		IN	OUT	CHANGE RATE	SIZE	8 3/4"
RIG #:	Capstar 133	DATE	2/1/2017	2/4/2017	4	TYPE	U616M
LOCATION	Lea, NM	DEPTH (MD)	4613	5911	1298	JETS	6x16
WELL	Larry 18 SA # 1-03H	DEPTH (TVD)	4610	4998	388	SER #	33104
JOB NUMBER	B0180	INCLINATION	10.5	90.06	79.56	FEET	1298
DIRECTIONAL SUPERVISOR	Bryan Mills / Alex Castillo	AZIMUTH	304.3	357.91	53.61	HOURS	48.5
CUSTOMER OFFICE CONTACT	Richard Wright	SLIDE PERCENT			0%	ROP	26.76
CUSTOMER WELLSITE SUPERVISOR	Chuck Nunnelee	MUD-WT.-TYPE	Brine	Brine	WBM	DULL	
OBJECTIVE:	Drill Curve						
COMMENTS:							

ITEM #	TOOL	COMPANY	SER. #	CONN. UP	CONN. DOWN	O.D.	I.D.	FISH NECK	BLADE O.D.	LENGTH	SUBTOTAL
1	PDC Bit	Ultera	33104	4 1/2" Reg		8 3/4"				1.00	1.00
2	2.38° FBH 6/7 5.0 True Slick	Nabors	RY700025	4 1/2" IF	4 1/2" IF	6 3/4"		1.48		25.95	26.95
3	Pony NMDC	Nabors	SD46423	4 1/2" IF	4 1/2" IF	6 11/16"	2 3/4"			9.90	36.85
4	ACCU MP	Nabors	M2016	4 1/2" IF	4 1/2" IF	6 3/4"				28.52	65.37
5	NMDC	Stabil Drill	SD46954	4 1/2" IF	4 1/2" IF	6 3/4"	2 7/8"			28.96	94.33
6	X-Over	Nabors	RY25390	4 1/2" XH	4 1/2" IF	6 3/4"	2 7/8"			3.01	97.34
	Bit to Bend: 4.01										
	Bit to Survey: 49										
	Bit to Gamma: 48										
	Revs/ gal: 0.29										
	Make Diff: 1130 psi										
	Flow Range: 300-600 gpm										
										TOTAL	97.34

NABORS

BOTTOM HOLE ASSEMBLY	# 4

WELL INFORMATION		DIRECTIONAL RESPONSE				BIT INFO.	
OIL COMPANY	Nemo Fund 1,LLC		IN	OUT	CHANGE RATE	SIZE	8 3/4"
RIG #:	Capstar 133	DATE	2/4/2017	2/9/2017	6	TYPE	U616M
LOCATION	Lea, NM	DEPTH (MD)	5911	9950	4039	JETS	6x20 (1.840)
WELL	Larry 18 SA # 1-03H	DEPTH (TVD)	4998	4991	-7	SER #	34222
JOB NUMBER	B0180	INCLINATION	90.06	88.25	-1.81	FEET	4039
DIRECTIONAL SUPERVISOR	Charles Green / Alex Castillo	AZIMUTH	357.91	1.6	-356.31	HOURS	82.6
CUSTOMER OFFICE CONTACT	Richard Wright	SLIDE PERCENT			0%	ROP	48.90
CUSTOMER WELLSITE SUPERVISOR	Chuck Nunnelee	MUD-WT.-TYPE	Brine		WBM	DULL	
OBJECTIVE:	Drill lateral						
COMMENTS:							

ITEM #	TOOL	COMPANY	SER. #	CONN. UP	CONN. DOWN	O.D.	I.D.	FISH NECK	BLADE O.D.	LENGTH	SUBTOTAL
1	PDC Bit U616M 6x20 (1.840)	Ultera	34222	4 1/2" Reg		8 3/4"				1.00	1.00
2	1.83° FBH 6/7 5.0 True Slick	Nabors	RY675111	4 1/2" IF	4 1/2" IF	6 3/4"				25.24	26.24
3	Pony NMDC	Nabors	SD46423	4 1/2" IF	4 1/2" IF	6 11/16"	2 3/4"			9.90	36.14
4	ACCU MP	Nabors	M2002	4 1/2" IF	4 1/2" IF	6 3/4"				28.67	64.81
5	NMDC	Stabil Drill	SD46954	4 1/2" IF	4 1/2" IF	6 3/4"	2 7/8"			28.96	93.77
6	X-Over	Nabors	RY25390	4 1/2" XH	4 1/2" IF	6 3/4"	2 7/8"			3.01	96.78
	Bit to Bend: 3.95'										
	Bit to Survey: 47'										
	Bit to Gamma: 46'										
	Revs/ gal: 0.29										
	Make Diff: 1130 psi										
	Flow Range: 300-600 gpm										
										TOTAL	96.78