

BIT PERFORMANCE UPDATE

Longest 9-1/4" Building section
All over Kuwait fields



Kuwait Oil Company VAREL Europe S.A.S 9-1/4" Hole Section

Najmah – Middle Marrat Formation

KOC
17th of September
2022
Well: SA-1018
Rig: KCA-01

Congratulations to KOC Deep Drilling & W/O Gas Team II

Mr. Adel Al-Sarraf	(Team Leader Deep Drilling & W/O Team)
Mr. Hussain Baqer	(Acting Team Leader Deep Drilling & W/O Team)
Mr. Abdulaziz Al-Mutairi	(Senior Drilling Engineer)
Mr. Mahesh Sounderrajan	(Senior Specialist)
Mr. Michael Bill	(Drilling engineer)
Mr. Sivakumar / Mr. Mike Bennett	(Senior Company Men)
Mr. Cristian Vutescu / Mr. Mikheil Kamushadze	(Day Rig Company Men)
Mr. Peter Toth	(Night Rig Company Man)

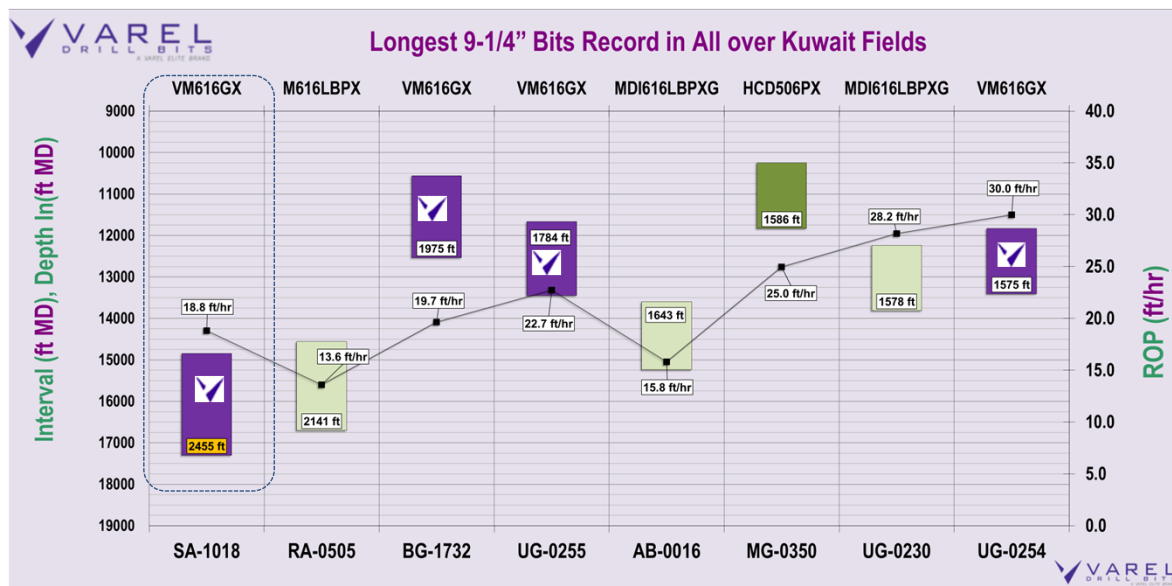
Varel Europe S.A.S succeeded to drill
The longest 9-1/4" Building Section in All over KOC Fields
from Najmah to Upper Marrat formation
in Deep Drilling Operation with

9-1/4" VM616DGXU

In conjunction with RSS

9-1/4" hole section Bit Performance

Well	Rig	Size	Type	S/N	Manufacturer	In	Out	FTG	Hours	ROP	Dull Grading	Drive	Inc In	Inc Out	Formation
SA-1018	KCA-01	9 1/4"	VM616DGXU	4013442	VAREL	14845	17300	2455	130.4	18.8	1-1-BT-G-X-I-WT-TD	Orbit	34.7°	74.8°	Gotnia - M. Marrat
RA-0505	NDIL-143	9 1/4"	M616LBPX	JG6117	SMITH	14559	16700	2141	157.5	13.6	1-1-WT-A-X-I-NO-TD	Power-Drive	36.5°	75.7°	Gotnia - U. Marrat
BG-1732	KDC-59	9 1/4"	VM616DGXU	6026293	VAREL	10560	12535	1975	100.5	19.7	1-1-NO-A-X-I-NO-TD	Auto-Trak	34.5°	55.4°	Gotnia - M. Marrat
UG-0255	UPDC-870	9 1/4"	VM616GX	6019511	VAREL	11663	13447	1784	78.5	22.7	1-1-NO-A-X-I-NO-DTF	Archer	0.4°	13.4°	Najmah - M. Marrat
AB-0016	UPDC-870	9 1/4"	MDI616LBPXG	JM3994	SMITH	13593	15236	1643	104.0	15.8	1-1-CT-A-X-I-NO-TD	Power-Drive	40.0°	45.4°	Gotnia - Marrat
MG-0350	GWDL-902	9 1/4"	HCD506PX	7909301	HUGHES	10245	11831	1586	63.5	25.0	1-1-WT-A-X-I-NO-TD	Auto-Trak	20.6°	70.0°	Najmah - M. Marrat
UG-0230	NDIL-144	9 1/4"	MDI616LBPXG	JM4847	SMITH	12235	13813	1578	56.0	28.2	1-1-WT-A-X-I-BT-TD	Power-Drive	21.9°	79.3°	Najmah - M. Marrat
UG-0254	Saipem-13	9 1/4"	VM616GX	6020292	VAREL	11830	13405	1575	52.5	30.0	0-0-NO-A-X-I-NO-TD	Power-Drive	26.9°	64.2°	Najmah - M. Marrat



The Varel PDC Bit 9-1/4" VM616DGXU achievement in SA-1018:

- For the first time in Kuwait history the 9-1/4" PDC Bit succeeded to drill the longest 9-1/4" hole building section all over Kuwait fields in one run
- High Steer-ability and compatibility in conjunction with Orbit RSS without any Stick slip or Vibration during drilling the 9-1/4" hole section
- The Bit came out in a very good condition and could be used again

