



Real Time Log

Natural Formation Evaluation
Gamma Ray

Scale:

1:240

Measured Depth

Company: KERR-MCGHEE OIL & GAS ONSHORE LP

Well: ELLIOTT STATE 1N-17HZ

Field: Weld County

Region: Continental US Country: United States

Status:

Final Print

Surface Location:

Latitude: 40° 13' 54.037" N

Longitude: 104° 55' 13.904" W

Other Services:

Directional
VSS

API Number:
05123386300000

Section: 17 TWN: 3N Range: 67W

Permanent Datum (P.D.): Ground Level Elevation: 4836.00 ft.

Log Measured From: Kelly Bushing 13.00 ft. Above P.D.

Depth Reference: Driller's Depth

Elevations:
KB: 4849.00 ft.
DF: n/a
GL: 4836.00 ft.

Interval Logged

Dates

Magnetic Field Reference

True

Top: 6400 ft. Date From: 19/Apr/14 Date To: 26/Apr/14 Dip Angle: 66.88 ° Azi Reference North: True
Bottom: 11963 ft. Date To: 26/Apr/14 Total Mag to Reference
Spud Date: 4/14/2014 Field Strength: 52586.0 nT North Correction: 8.57 °

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13.500 in.	Surface	1256 ft.	9.625 in.	36.00 lb/ft	Surface	1256 ft.
8.750 in.	1256 ft.	7376 ft.	7.000 in.	26.00 lb/ft	1256 ft.	7376 ft.
6.125 in.	7376 ft.	12025 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
LSND	Surface	12025 ft.	13.500 in.	1256 ft.	0.0 ° / 0.0 °	0.4 / 331.2 °
			8.750 in.	6120 ft.	0.4 / 331.2 °	83.2 ° / 87.5 °
			6.125 in.	4649 ft.	83.2 ° / 87.5 °	89.4 ° / 90.2 °
					/	/
					/	/
					/	/

Acquisition System Software Version

Other

Advantage	2.20U4	Rig: / Contractor:	Ensign 138	/ Anadarko
PATS	6.4.1.34	Job No:	6304524	
		District: / Unit:	RMD	/ D&E

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Log Run Summary

Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Time (hrs.)
							Top	Bottom	From	To	Start	End	
							(ft.)	(ft.)	(ft.)	(ft.)			
1	1	2	8.750	PDC	3.000	Steerable	6400	7376	1256	7375	18/Apr/2014 04:29	19/Apr/2015 21:26	39
2	2	3	6.125	PDC	6.000	Steerable	7376	11963	7376	12025	18/Apr/2014 20:56	18/Apr/2014 04:48	38

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Daniel Lee	14/Apr/2014	17/Apr/2014				Robert Bartlett	14/Apr/2014	24/Apr/2014
Justin Foster	14/Apr/2014	24/Apr/2014				Will Drake	14/Apr/2014	24/Apr/2014
Tyler Lee	18/Apr/2014	24/Apr/2014						

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
17/Apr/2014 21:00	1	1251	LSND	8.4	29	8.1	N/A	0.0/99.3	Active Pit	1400	N/A
18/Apr/2014 21:00	1	4326	LSND	8.5	30	9.1	N/A	00/98.5	Active Pit	1800	N/A
19/Apr/2014 21:00	1	7265	LSND	10.4	40	9.4	N/A	0.4/89.4	Active Pit	2000	N/A
20/Apr/2014 21:00	2	7376	LSND	10.8	40	9.1	N/A	0.5/87.5	Active Pit	2000	N/A
21/Apr/2014 21:00	2	7376	LSND	10.2	34	9.3	N/A	0.5/90.4	Active Pit	1800	N/A
22/Apr/2014 21:00	2	10540	LSND	9.4	41	9.7	N/A	1.6/91.8	Active Pit	2000	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRIX	Gamma Ray Data Density	point
GRSI	Gamma Ray Siding Indicator	unitless
GRTX	Gamma Ray Time Since Drilled	min
ROPA	Rate of Penetration, 3.0 ft. Avg.	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	Surface Weight on Bit, 1.0 ft. Avg	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12042368	Directional	61.73	6.750	2.875
1	SRIG	12354931	Gamma	58.36	6.750	2.875
2	DIR	11710701	Directional	64.74	4.750	2.750
2	SRIG	12380940	Gamma	61.36	4.750	2.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

- 1.) Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 2.) Baker Hughes run 1 utilized 6 3/4 inch NaviTrak services (Directional only) behind an 8 3/4 inch bit and steerable assembly from 1256 to 6450 feet MD (1256 to 6355 feet TVD).
- 3.) Baker Hughes run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 6450 to 7376 feet MD (6355 to 6959 feet TVD).
- 4.) Baker Hughes run 2 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 6 1/8 inch bit and steerable assembly from 7376 to 12025 feet MD (6959 to 12025 feet TVD).

feet MD (6959 to 6959 feet TVD).

5.) The interval from 1256 to 6450 feet MD (1256 to 6355 feet TVD) was not logged due to directional only services being provided through the straight-hole and nudge section for Baker Hughes run 1.

Curve Mnemonics

Curve	Description	Units
GRAX	Gamma Ray - Apparent	API
GRIX	Gamma Ray - Data Point Indicator	unitless
GRSIM	Gamma Ray Sliding Indicator	unitless
GRTX	Gamma Ray Time Since Drilled	min
ROPA	AVERAGE Instantaneous ROP - 5 second ROP	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	AVERAGE Weight On Bit	klbf



Company : KERR-MCGHEE OIL & GAS ONSHORE LP

Well : ELLIOT STATE 1N-17HZ

Interval : 6380.00 - 12060.00 feet

Created : 23/Apr/2014 12:37:27 PM





















































