GEOLOGICAL REPORT

FINAL

NW/4 SE/4 NE/4 SW/4 Sec. 10 T. 7S R. 37E

COMPANY: Suemaur Exploration & Production, LLC
API #: 15-023-21221-0000-00 — Morgan
LEASE: Ritter — WELL #: 1-10
SURFACE: 1478 FSL 1570 FEL
SURVEY:
SECTION: 10 — TWP: 7S — RGE: 37W
COUNTY: Cheyenne — STATE: Kansas

SPUD: 10-14-16 — COMP: 10-24-16 — TOTAL DEPTH: 4921
CONTRACTOR: #4 Duke Drilling Co. (Rig 2)
ELEVATION: KB 3731 — DF — GL 3716
LOGS: DUAL INDUCTION, DUAL COMPENSATED POROSITY, MICRO, SONIC, CEMENT BOND
MUD UP: Chemical, Mud Co. — Type Mud: Fresh Water Low Solids

SAMPLES SAVED FROM: 3700 to RTD
DRILLING TIME: 3700 to RTD
SAMPLES EXAMINED: 3700 to RTD
GEOLOGICAL SUPERVISION: 3700 to RTD
WELLSITE GEOLOGIST: Larry A. Nicholson

ELECTRICAL SURVEYS: Richardson Exp. Serv. Rep.: Randy Davis

FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE	LOG	DATUM	ELEVATION (KB)
Anhydrite			2826	+905
B/Anhydrite			2858	+873
Topeka			3414	+317
Lansing			3654	-240
LANS A			3693	-279
LANS B			3714	-300
LANS C			3806	-373
LANS D			3844	-413
LANS E			3870	-439
BKC			4002	-571
Marmaton			4021	-590
ATOK			4162	-731
REFERENCE WELLS				

DRILLSTEM TEST SUMMARY:

DST #1 3873-3892 (LKC A) 30-45-45-60 — IF: BOB in 1min — FF: BOB in 5min — SI: 1/2" blow back — FF: 1/2" blow back — Rec: 10' GIP, 10' MCO (10%O, 90%M) — IHP: 1944 — IFP: 20-20 — ISIP: 1021 — FFP: 20-20 — FSIP: 1010 — BHT: 109°

REMARKS & RECOMMENDATIONS

It appears the well will be P&A. Due
to acid or even shows, and dst results. Dry and new P&A.

Triple Rams was 7 # difference between RTD 4921' and 4914'
LTD 4892. All the Anhydrite there was 7 difference.

*** The Sheffigood curves and samples were normal**
up 7 feet to match the electric log.

LEGEND

Shale | Limestone | Sandstone | Chert | Anhydrite

GAMMA RAY + SP — Gas Units — DRILLING TIME in MINUTS — PEN DOT — DEPTH

SAMPLE DESCRIPTIONS — REMARKS

Drill Stem Test #1 (LKC A) 3873-3892 — 30-45-45-60 — IF: BOB in 1min — FF: BOB in 5min — SI: 1/2" blow back — FF: 1/2" blow back — Rec: 10' GIP, 10' MCO (10%O, 90%M) — IHP: 1944 — IFP: 20-20 — ISIP: 1021 — FFP: 20-20 — FSIP: 1010 — BHT: 109°

Recovered 10' GIP, 10' MCO (10%O, 90%M)

"BIT RECORD"
Drilled with Rotary Tools
Surface: 12-1/4" hole to 224'
Production: 7-7/8" hole to 4921'
Rig #4 Duke Drilling Co.
Rig 2 Toolpusher: Jeff Hall

VERTICAL SURVEYS
1/4 @ 224' — 0°
1/4 @ 1000' — 0°
1/4 @ 2000' — 0°
1/4 @ 3000' — 0°
1/4 @ 4000' — 0°
1/4 @ 4921' — 0°

"DAILY REPORT"
10-14-2016 - 12:00 PM
Rig Up
Dig to 17'-0" in 3hr
4 jts 8-5/8 #24
20'-0"/3 jags
Cmt w/ 150 sx
Plug down @ 4:30pm
Full returns @75 bbls
Cmt to surface

Rig down 03:00 PM 10-14-16

10-15-2016 - 7:00 AM
Rig @ 800'
Drlg @ 1,500'

10-16-2016 - 7:00 AM
Drlg @ 2,700'

10-17-2016 - 7:00 AM
Drlg @ 3,700'

10-18-2016 - 7:00 AM
Drlg @ 4,100'

10-19-2016 - 5:30 AM
RTD @ 4,921'
Rig up Allegiance

LTD 4,907'

P&A

4492' 50sx
2300' 60sx
1000' 60sx
310' 60sx
40' 10sx
RH 40sx
MH 30sx
1 jt 4-1/2" 10.5#
Cmt w/ 10 sx
Plug down @ 10:45 PM

Rig down 03:00 PM 10-19-16

DST #1 3873-3892 (LKC A)
30-45-45-60
IF: BOB in 1min
FF: BOB in 5min
SI: 1/2" blow back
FF: 1/2" blow back
Rec: 10' GIP, 10' MCO (10%O, 90%M)
IHP: 1944
IFP: 20-20
ISIP: 1021
FFP: 20-20
FSIP: 1010
BHT: 109°

Recovered 10' GIP, 10' MCO (10%O, 90%M)

Drill Stem Test #2 (LKC D) 3844-3870 — 30-45-45-60 — IF: BOB in 1min — FF: BOB in 5min — SI: 1/2" blow back — FF: 1/2" blow back — Rec: 10' GIP, 10' MCO (10%O, 90%M) — IHP: 1944 — IFP: 20-20 — ISIP: 1021 — FFP: 20-20 — FSIP: 1010 — BHT: 109°

Recovered 10' GIP, 10' MCO (10%O, 90%M)

DST #2 3844-3870 (LKC D)
30-45-45-60
IF: BOB in 1min
FF: BOB in 5min
SI: 1/2" blow back
FF: 1/2" blow back
Rec: 10' GIP, 10' MCO (10%O, 90%M)
IHP: 1944
IFP: 20-20
ISIP: 1021
FFP: 20-20
FSIP: 1010
BHT: 109°

Recovered 10' GIP, 10' MCO (10%O, 90%M)

GAMMA RAY / SP — Gas Units — DRILLING TIME in MINUTS — PEN DOT — DEPTH

SAMPLE DESCRIPTIONS — REMARKS

COMPANY: Suemaur Exploration & Production, LLC
LEASE: Ritter #1-10 SW SE NE SE
LOCATION: 1478 FSL 1570 FEL — SEC: 10 — TWP: 7S — RGE: 37W
COUNTY: Cheyenne — STATE: Kansas

ELEVATIONS
KB: 3731
DF:
GL: 3716
All measurements from KB

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