KITT NOAH

PETROLEUM GEOLOGIST
Kansas License 4229

GEOLOGIST'S REPORT

Oil & Gas Development & Exploration
Drilling Monitoring & Reporting

RUSSELL OIL, INC.
OIL & GAS PRODUCERS
1401 N. BRAMBLE
WICHITA, KANSAS 67206
316-683-5511

API #	15-109-21,665
LEASE	GNC Unit
WELL #	29-1
SEC	29
TWP	14S
RGE	33W

OPERATOR	Russell Oil, Inc.
CONTRACTOR	Discovery Drilling Co. #232
LOCATION	2550'FN & 825'FE
SEC - TWP - RGE	29 - 14S - 33W
COUNTY	Logan
STATE	Kansas
ELEVATION	KB 2923
DATE	12-15-21
TOTAL DEPTH	4650'
CASING	8 5/8" @ 226' w/ 160 sks
STATUS	Dry & Abandoned

Oil Shows	Depth	Formation	Gas Shows	Depth	Formation
Dull yellow	3500-3510	Anhydrite	Gas Kick	3800	Lansing
Dull yellow	3600-3610	Topeka	Gas Kick	3900	Muncie Crk.
Dull yellow	3700-3710	Lecompton	Gas Kick	4000	Stark
Dull yellow	3800-3810	Oread	Gas Kick	4100	Hush
Dull yellow	3900-3910	Lansing "C"	Gas Kick	4200	B/KC
Dull yellow	4000-4010	Muncie Crk. "H"	Gas Kick	4300	Marmaton
Dull yellow	4100-4110	Stark "K"	Gas Kick	4400	Fort Scott
Dull yellow	4200-4210	B/KC "L"	Gas Kick	4500	Johnson Zn
Dull yellow	4300-4310	Marmaton "A"	Gas Kick	4600	Mississippian
Dull yellow	4400-4410	Fort Scott			
Dull yellow	4500-4510	Johnson Zone			
Dull yellow	4600-4610	Mississippian			

Drilling Time: Russell Oil, Inc.
Mud Logging: Discovery Drilling Co.
Geologist: Kitt Noah
Field Supervisor: Kevin Kennedy

LEGEND

Limestone | Ool Lime | Dolomite | Sandstone | Shale | Carb Shale | Chert | Anhydrite

DEPTH | DRILLING TIME IN MINUTES PER FOOT (Rate of penetration increases 1' 10' 15' 20') | SAMPLE DESCRIPTIONS | REMARKS

4500'

2350 — Anhydrite — EL 2338 (+585)

B/Anhydrite — EL 2359 (+564)

Bit Trip at 3472'
Chg Pkr to Conv
Pipe Strap at 3472'
2.62 Short to Board

3500

Sh, gry & maroon
LS:crm-tan fn xln fossil pr interpart poro dense NSHO
LS:gry fn xln dense pr visible poro NSHO
Sh, dk gry & maroon
LS:crm-gry fn xln pt fossil pr intpart poro NSHO
LS:crm-tan fn xln xln fossil pr intpart poro barren NSHO
Sh, gry, green, maroon
LS: tan fn xln pt fossil pr intpart poro dense NSHO
LS:crm-tan fn xln v. fossil & oolitic pr intpart poro, chalky NSHO
Sh, gry, green, maroon — EL 3596 (-673)

3600

LS:crm-tan fn xln pt fossil pr intpart poro, chalky, trace oolitic, trace mostly wht chalk
Sh, lt gry & green
LS:crm-wht fn xln pt fossil pr intpart poro, chalky, tace chert, trace oolitic
LS:crm-tan fn xln pt fossil pr intpart poro, chalky, trace oolitic, tr pieces tan chert
LS:crm-tan fn xln pt gr-fr intpart poro, chalky NSHO
LS:crm - tan fn xln mod fossil pr intpart poro barren NSHO
Sh, maroon & dk gry
LS: tan fn xln pt fossil pr visible poro, dense, tace wht wht chert, trace oolitic, tr wht chalk
LS:crm AA
LS:tan fn xln pt fossil & oolitic pr intpart poro, chalky
LS:crm-tan fn xln fossil pr vis poro, chalky, trace oolitic, tr wht chalk
Sh, blk carbonaceous
Sh, fossil micrite, tan, trace DS clusters, trace NSHO
Sh, dkgn micrite, lt gry & green, v. fossil, trace oolitic, tr chalk NSHO
LS:crm-tan fn xln fossil dense pr intpart poro NSHO
LS:crm fn xln fossil pr visible poro, NSHO
Sh, gry, green, maroon
LS:gry fn xln pr visible poro; trace NSHO
Sh, blk carbonaceous
LS:crm-tan fn xln fossil pr intpart poro v. chalky NSHO
LS:crm fn xln fossil pr intpart poro, chalky, tr pieces wht & gry chert NSHO
LS:crm AA
Sh, gry, green, maroon
LS:crm-gry fn xln fossil fr fossil poro, barren NSHO
LS:crm-gry fn xln fossil w/ dk micrite, tr DS clusters, v. chalky NSHO

Topeka — EL 3844 (-921)

Lecompton

Oread

Heebner — EL 3824 (-901)

Toronto

Lansing — EL 3869 (-946)

3700

3800

3900

"C"

"D"

"E"

"F"

"G"

Wiper Trip at 4000'
15 stands

Muncie Crk. — EL 4034 (-111)

"H"

"I"

"J"

Stark — EL 4129 (-1206)

"K"

Hush — EL 4168 (-1245)

"M"

B/KC — EL 4198 (-1275)

4000

4100

4200

4300

Marmaton — EL 4238 (-1315)

DST #1 (4244-4315)
30 min flow thlg 1 ½"; 30 min BU
Rec: 5' Mud
2nd Op: No Blow
No Blowback

Bpr:
50" Mud

HP: 57-54#/30"
FP: 19-19#/30"
SIP: 50-54#/30"
HYD: 969#/30"

Note: Recovery thru 5 PSI; Tool Sld 9'

Alt"A"

Alt"B"

Alt"C"

Pawnee — EL 4340 (-1417)

Myrick Sta. — EL 4370 (-1447)

Fort Scott — EL 4392 (-1469)

4400

4500

Cherokee — EL 4420 (-1497)

Johnson Zn — EL 4464 (-1541)

DST #2 (4451-4500)
30 min flow thlg 1"; 30 min BU
Rec: No Blow
2nd Op: No Blow
No Blowback

Bpr:
80" M w/oil scum

HP: 60-79#/45"
FP: 19-24#/45"
SIP: 1394-1401#/45"
HYD: 968#/45"

Morrow Sh. — EL 4516 (-1593)

Morrow Sd. — EL 4534 (-1611)

Mississippian — EL 4564 (-1641)

4600

Rate of penetration increases
DRILLING TIME IN MINUTES PER FOOT
SAMPLE DESCRIPTIONS

4650'

OPERATOR: Russell Oil, Inc. | LOCATION: 2550FN & 825FE | ELEVATION: KB 2923
LEASE: GNC Unit | WELL NO.: #29-1 | SEC.: 29 | TWP.: 14S | RNG.: 33W
API: 15-109-21,665 | FIELD: Wildcat | COUNTY: Logan | STATE: Kansas