

Jeff Christian

PETROLEUM GEOLOGIST

Wichita, Kansas

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR **MIRRETT DRILLING COMPANY**

LEASE **ABELL # 1-24**

LOCATION **3351 FSL & 1650th FEL**

SEC: **24** TWP: **12 S** RANG: **31 W**

COUNTY **GOVE** STATE **KANSAS**

FIELD **WILD CAT**

API **15-062-22243**

CONTRACTOR **COMPANY TOOLS** RIG NO. **21**

DIRECTION STARTED **01/28/2015** COMPLETED **02/02/2015**

MUD DISPLACED **3200'** MUD TYPE **CHEMICAL**

DRILLING TIME KEPT FROM **3330'** TO **RTD**

SAMPLES SAVED FROM **3330'** TO **RTD**

SAMPLES EXAMINED FROM **3330'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3360'** TO **RTD**

FORMATION NAME **ANHYDRITE** TOP **DWTUM** TOP **DWTUM**

FORMATION NAME **TOPEKA** TOP **2328'** TOP **2332'** TOP **2334'** TOP **2336'** TOP **2338'** TOP **2340'**

FORMATION NAME **HEEBNER** TOP **3829'** TOP **3833'** TOP **3837'** TOP **3841'** TOP **3845'**

FORMATION NAME **LANSING** TOP **3899'** TOP **3903'** TOP **3907'** TOP **3911'** TOP **3915'**

FORMATION NAME **STARK** TOP **4114'** TOP **4118'** TOP **4122'** TOP **4126'** TOP **4130'**

FORMATION NAME **MARMATON** TOP **4236'** TOP **4240'** TOP **4244'** TOP **4248'** TOP **4252'**

FORMATION NAME **FT. SCOTT** TOP **4366'** TOP **4370'** TOP **4374'** TOP **4378'** TOP **4382'**

FORMATION NAME **CHEROKEE** TOP **4394'** TOP **4398'** TOP **4402'** TOP **4406'** TOP **4410'**

FORMATION NAME **MISSISSIPPIAN** TOP **4461'** TOP **4465'** TOP **4469'** TOP **4473'** TOP **4477'**

FORMATION NAME **MISSISSIPPIAN** TOP **4563'** TOP **4567'** TOP **4571'** TOP **4575'** TOP **4579'**

FORMATION NAME **MISSISSIPPIAN** TOP **4653'** TOP **4657'** TOP **4661'** TOP **4665'** TOP **4669'**

FORMATION NAME **MISSISSIPPIAN** TOP **4753'** TOP **4757'** TOP **4761'** TOP **4765'** TOP **4769'**

FORMATION NAME **MISSISSIPPIAN** TOP **4853'** TOP **4857'** TOP **4861'** TOP **4865'** TOP **4869'**

FORMATION NAME **MISSISSIPPIAN** TOP **4953'** TOP **4957'** TOP **4961'** TOP **4965'** TOP **4969'**

FORMATION NAME **MISSISSIPPIAN** TOP **5053'** TOP **5057'** TOP **5061'** TOP **5065'** TOP **5069'**

FORMATION NAME **MISSISSIPPIAN** TOP **5153'** TOP **5157'** TOP **5161'** TOP **5165'** TOP **5169'**

FORMATION NAME **MISSISSIPPIAN** TOP **5253'** TOP **5257'** TOP **5261'** TOP **5265'** TOP **5269'**

FORMATION NAME **MISSISSIPPIAN** TOP **5353'** TOP **5357'** TOP **5361'** TOP **5365'** TOP **5369'**

FORMATION NAME **MISSISSIPPIAN** TOP **5453'** TOP **5457'** TOP **5461'** TOP **5465'** TOP **5469'**

FORMATION NAME **MISSISSIPPIAN** TOP **5553'** TOP **5557'** TOP **5561'** TOP **5565'** TOP **5569'**

FORMATION NAME **MISSISSIPPIAN** TOP **5653'** TOP **5657'** TOP **5661'** TOP **5665'** TOP **5669'**

FORMATION NAME **MISSISSIPPIAN** TOP **5753'** TOP **5757'** TOP **5761'** TOP **5765'** TOP **5769'**

FORMATION NAME **MISSISSIPPIAN** TOP **5853'** TOP **5857'** TOP **5861'** TOP **5865'** TOP **5869'**

FORMATION NAME **MISSISSIPPIAN** TOP **5953'** TOP **5957'** TOP **5961'** TOP **5965'** TOP **5969'**

FORMATION NAME **MISSISSIPPIAN** TOP **6053'** TOP **6057'** TOP **6061'** TOP **6065'** TOP **6069'**

FORMATION NAME **MISSISSIPPIAN** TOP **6153'** TOP **6157'** TOP **6161'** TOP **6165'** TOP **6169'**

DATE	7:00 AM DEPTH	REMARKS
1/26/15	MIRT	SPUD 4:15 pm
1/27/15	582'	DRL6. dev. 3/4 deg. @ 222'
1/28/15	3166'	DRL6.
1/29/15	3818'	DRL6.
1/30/15	3990'	DRL6. dev. 3/4 deg. @ 3966'
1/31/15	4152'	TOH for DST # 3
2/1/15	4371'	DRL6.
2/2/15	4499'	DRL6. dev. @ 4458' 1/4 deg. RTD 4567' @ 10:00 am dev. 1/4 deg. Finnish logging @ 8:30 pm

Remarks
 5 1/2" production casing set to further test the Abell # 1-24.
 Electric log measurements correlate 4' to 6' high compared to rotary measurements.
 Samples deposited at the Kansas Geological Survey.
 Respectfully Submitted,
Jeff Christian
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