

ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33405
Name: ANSTINE & MUSGROVE OIL INC
Address 1: PO BOX 391
Address 2: _____
City: PONCA CITY State: OK Zip: 74602 + _____
Contact Person: GARY ANSTINE
Phone: (620) 442-3167
CONTRACTOR: License # 33323
Name: PETRO-MARK
Wellsite Geologist: JAMES C MUSGROVE
Purchaser: COFFEYVILLE RESOURCES

API No. 15 - 185-23,524-00-00
Spot Description: NW-NW-SW
NW - NW - SW - Sec. 26 Twp. 22 S. R. 12 East West
2080 Feet from North / South Line of Section
580 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: STAFFORD
Lease Name: SPANGENBERG Well #: 4
Field Name: UNKNOWN

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

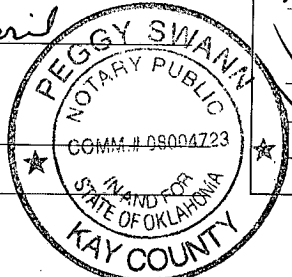
Producing Formation: KANSAS CITY
Elevation: Ground: 1844 Kelly Bushing: 1849
Total Depth: 3667 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 237 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmf.

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
1/9/09 1/16/09 3/17/09
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan AH I NUR 2-2-10
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: 1400 bbls
Dewatering method used: HAULED OFF
Location of fluid disposal if hauled offsite: _____
Operator Name: MUSGROVE ENERGY
Lease Name: VOIGHT WEST License No.: 34058
Quarter _____ Sec. 11 Twp. 22 S. R. 12 East West
County: STAFFORD Docket No.: N/A

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.
Signature: Ruben J. Swann
Title: PRESIDENT Date: 4/27/09
Subscribed and sworn to before me this 27 day of April
2009
Notary Public: Peggy Swann
Date Commission Expires: 4-23-12



KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
JAN 27 2010
KCC WICHITA
KANSAS CORPORATION COMMISSION
APR 29 2009
RECEIVED

RECEIVED

JAN 27 2010

Side Two

Operator Name: Hastine-Musgrove Lease Name: Spangenberg Well #: 4
 Sec. 26 Twp. 22 S. R. 12 East West County: Stafford **KCC WICHITA**

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

| | | | |
|--|---|---|---------------------------------|
| Drill Stem Tests Taken (Attach Additional Sheets) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Douglas | 3149 -1300 |
| Electric Log Run (Submit Copy) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Brown Lim | 3243 -1394 |
| List All E. Logs Run: | | Lansing | 3269 1420 |
| <u>Dual Induction, Dual</u> | | Base KC | 3500 -1651 |
| <u>Compensated Porosity, and Micro Log</u> | | Viola | 3537 -1688 |
| | | Simpson Sand | 3602 -1753 |
| | | Arbuckle | 3672 -1773 |

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|--------------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 12.25" | 8.625" | 23 | 237' | class A | 225 | 3% Cal chloride |
| Casing | 7.875 | 5.5" | 15.5 | 3667' | class A | 200 | 5% Kol seal 1% Cal chloride |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | |
|----------------|---|---|------------|
| | | Amount and Kind of Material Used | Depth |
| 2 | 3402' to 3409' | 300 gallons 15% MCA | 3402-3409' |

| | | | | |
|---|---|---------------------|-----------------------|--|
| TUBING RECORD: | Size: <u>2 3/8"</u> | Set At: <u>3365</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Enhr. | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>20</u> | Gas Mcf <u>0</u> | Water Bbls. <u>20</u> | Gas-Oil Ratio Gravity |

| | | |
|--|---|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.) | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) | PRODUCTION INTERVAL: <u>3402' - 3409'</u> |
|--|---|--|



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE Invoice # 228363

Invoice Date: 01/14/2009 Terms: 0/30,n/30 Page 1

ANSTINE & MUSGROVE OIL CO
P.O. BOX 391
PONCA CITY OK 74602
(580)762-6355

SPANGENBERG #4
19574
01-09-09

| Part Number | Description | Qty | Unit Price | Total |
|-------------|--------------------------|--------|------------|---------|
| 1104S | CLASS "A" CEMENT (SALE) | 225.00 | 13.5000 | 3037.50 |
| 1102 | CALCIUM CHLORIDE (50#) | 700.00 | .7500 | 525.00 |
| 1118A | S-5 GEL/ BENTONITE (50#) | 500.00 | .1700 | 85.00 |
| 1107 | FLO-SEAL (25#) | 200.00 | 2.1000 | 420.00 |
| 4432 | 8 5/8" WOODEN PLUG | 1.00 | 77.0000 | 77.00 |

| Description | Hours | Unit Price | Total |
|---------------------------------|--------|------------|---------|
| 446 CEMENT PUMP (SURFACE) | 1.00 | 725.00 | 725.00 |
| 446 EQUIPMENT MILEAGE (ONE WAY) | 80.00 | 3.65 | 292.00 |
| 491 TON MILEAGE DELIVERY | 846.00 | 1.20 | 1015.20 |

KANSAS CORPORATION COMMISSION

APR 29 2009
RECEIVED

PAID
CHECK NO. 11189
AMOUNT \$6437.81
DATE 1-27-09

| | | | | | | | |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 4144.50 | Freight: | .00 | Tax: | 261.11 | AR | 6437.81 |
| Labor: | .00 | Misc: | .00 | Total: | 6437.81 | | |
| Sublt: | .00 | Supplies: | .00 | Change: | .00 | | |

Signed OK [Signature] Date _____



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 19574
LOCATION El Dorado #80
FOREMAN Jim Thomas

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|--|------------|--------------------|---------|----------|---------|--------|
| 1-9-09 | 1098 | Spangenberg #4 | 26 | 22S | 12W | Ellis |
| CUSTOMER Anstine + Musgrove Oil Co. | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDRESS P.O. Box 391 | | | 446 | Jacob | | |
| CITY Ponca City | | | 491 | Bobby | | |
| STATE OK | | ZIP CODE 74601 | | | | |

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 237 ft. CASING SIZE & WEIGHT 5 7/8" 20.0 #
CASING DEPTH 236 ft. DRILL PIPE _____ TUBING _____ OTHER New
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 209
DISPLACEMENT 13.83 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting. Rig up to 8 5/8" Drake circulation Pump 225 sks Class.
A 3% CC 2% gel 34# Poly-Flake. Shut down, + Release 8 5/8" W. + Disp.
Cement to 217 ft. + Shut in. Circulated cement in the cellar. Washup
+ rig down.

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|-------------------------------|-------------------|------------------------------------|-----------------|---------|
| 54015 | 1 | PUMP CHARGE | 725.00 | 725.00 |
| 5406 | 80 | MILEAGE | 3.65 | 292.00 |
| 11045 | 225 sks | Class A | 13.50 | 3037.50 |
| 1102 | 700 lbs | Calcium Chloride | .75 | 525.00 |
| 1118A | 500 lbs | gel | .17 | 85.00 |
| 1107 | 200 lbs | Poly-Flake | 2.10 | 420.00 |
| 4432 | 1 | 8 5/8" Wooden Rubber Plug | 71.00 | 71.00 |
| 5407A | 10.57 Tons | 80 mile Bulk Del. | 1.20 | 1015.20 |
| KANSAS CORPORATION COMMISSION | | | | |
| APR 29 2009 | | | | |
| RECEIVED | | | | |
| Subtotal | | | | 6176.70 |
| | | | SALES TAX | 26.11 |
| | | | ESTIMATED TOTAL | 6439.81 |

Ravin 3737

228363

AUTHORIZATION _____

TITLE _____

DATE _____



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE Invoice # 228488

Invoice Date: 01/21/2009 Terms: 0/30,n/30 Page 1

ANSTINE & MUSGROVE OIL CO
P.O. BOX 391
PONCA CITY OK 74602
(580)762-6355

SPANGENBERG #4
19575
01-16-09

| Part Number | Description | Qty | Unit Price | Total |
|-------------|--------------------------|---------|------------|---------|
| 1104S | CLASS "A" CEMENT (SALE) | 200.00 | 12.7000 | 2540.00 |
| 1110A | KOL SEAL (50# BAG) | 1000.00 | .3900 | 390.00 |
| 1118A | S-5 GEL/ BENTONITE (50#) | 600.00 | .1600 | 96.00 |
| 1107 | FLO-SEAL (25#) | 50.00 | 1.9700 | 98.50 |
| 1102 | CALCIUM CHLORIDE (50#) | 200.00 | .7100 | 142.00 |
| 4104 | CEMENT BASKET 5 1/2" | 1.00 | 206.0000 | 206.00 |
| 4130 | CENTRALIZER 5 1/2" | 6.00 | 44.0000 | 264.00 |
| 4159 | FLOAT SHOE AFU 5 1/2" | 1.00 | 309.0000 | 309.00 |
| 4454 | 5 1/2" LATCH DOWN PLUG | 1.00 | 228.0000 | 228.00 |

| Description | Hours | Unit Price | Total |
|---------------------------------|--------|------------|--------|
| 467 CEMENT PUMP | 1.00 | 870.00 | 870.00 |
| 467 EQUIPMENT MILEAGE (ONE WAY) | 80.00 | 3.45 | 276.00 |
| 491 TON MILEAGE DELIVERY | 752.00 | 1.16 | 872.32 |

KANSAS CORPORATION COMMISSION

APR 29 2009

RECEIVED

PAID _____
CHECK NO. 11223
AMOUNT \$ 6437.81
DATE 2-2-09

| | | | | | | | |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 4273.50 | Freight: | .00 | Tax: | 269.24 | AR | 6561.06 |
| Labor: | .00 | Misc: | .00 | Total: | 6561.06 | | |
| Sublt: | .00 | Supplies: | .00 | Change: | .00 | | |

Signed OK JQ Date _____



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 19578
LOCATION El Dorado #80
FOREMAN Jim Thomas

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|---|----------------------------|------------------------------|---|----------|---------------------|--------|
| 1-16-09 | 1098 | Spangenberg #4 | 26 | 225 | 12W | Dollar |
| CUSTOMER <u>Austine + Muggrove Oil Co</u> | | | TRUCK # | | DRIVER | |
| MAILING ADDRESS <u>P.O. Box 391</u> | | | 467 | | Jeff | |
| CITY <u>Ponca City</u> | | | 491 | | Bobby | |
| STATE <u>OK</u> | | | ZIP CODE <u>74601</u> | | | |
| JOB TYPE <u>Long Sitting</u> | HOLE SIZE <u>4 7/8"</u> | HOLE DEPTH <u>3667 ft</u> | CASING SIZE & WEIGHT <u>5 1/2" 1550#</u> | | OTHER <u>New</u> | |
| CASING DEPTH <u>3666 ft</u> | DRILL PIPE | TUBING | CEMENT LEFT in CASING <u>20.10 ft</u> | | | |
| SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | DISPLACEMENT <u>21.40</u> | | | |
| DISPLACEMENT PSI | DISPLACEMENT PSI | MIX PSI | RATE | | | |
| REMARKS <u>Safety meeting, rig up + circulate 45 min with Rig mud pump pump 200 sks class A 5% Kol-seal 3% gel 1% cc. Shut down, let pump, release plug & displacement to 3646 ft. Bump plug 1250#. Release P&I, plug held. Wash up rig down. " Plug rat hole with 15 sks class A"</u> | | | | | | |

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|------------|---------|
| 5401 | 1 | PUMP CHARGE | 870.00 | 870.00 |
| 5406 | 80 | MILEAGE | 3.45 | 276.00 |
| | | KANSAS CORPORATION COMMISSION | | |
| | | APR 29 2009 | | |
| 11045 | 200 sks | class A | 12.70 | 2540.00 |
| 1116A | 1000 lbs | Kol-Seal | .39 | 390.00 |
| 1118A | 600 lbs | gel | .16 | 96.00 |
| 1107 | 50 lbs | Poly-Flake | 1.97 | 98.50 |
| 1102 | 200 lbs | Calcium Chloride | .71 | 142.00 |
| 4104 | 1 | 5 1/2" Basket | 206.00 | 206.00 |
| 4130 | 6 | 5/8" Centralizer | 44.00 | 264.00 |
| 4159 | 1 | 5/8" Float Shoe AFU | 309.00 | 309.00 |
| 4454 | 1 | 5/8" hatchdown Plug | 228.00 | 228.00 |
| 5407A | 9.4 Tons | 80 miles Bulk Del. | 1.16 | 872.00 |
| | | Subtotal | 6.3 | 629.80 |
| | | SALES TAX | | 269.04 |
| | | ESTIMATED TOTAL | | 6061.06 |

Form 3737

228488

AUTHORIZATION _____

TITLE _____

DATE _____

JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Anstine & Musgrove Inc.
Spangenberg #4
NW-NW-SW (2080' FSL & 580' FWL) Section 26-22s-12w
Stafford County, Kansas
Page 1

5 1/2" Production Casing

Contractor: Petromark Drilling Company (Rig #2)
Commenced: January 9, 2009
Completed: January 15, 2009
Elevation: 1849' KB; 1847' DF, 1844' GL
Casing program: Surface, 8 5/8" @ 237'
Production; 5 1/2" @ 3667'
Sample: Samples saved and examined 2800 ft to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There was one (1) Drill Stem Test ran by Diamond Testers.
Electric Log: By Log Tech; Dual Induction, Dual Compensated Porosity and Micro Log.

| <u>Formation</u> | <u>Log Depth</u> | <u>Sub-Sea Datum</u> |
|--------------------|------------------|----------------------|
| Anhydrite | 597 | +1252 |
| Heebner | 3113 | -1264 |
| Toronto | 3131 | -1282 |
| Douglas | 3149 | -1300 |
| Brown Lime | 3243 | -1394 |
| Lansing | 3269 | -1420 |
| Base Kansas City | 3500 | -1651 |
| Viola | 3537 | -1688 |
| Simpson Shale | 3585 | -1736 |
| Simpson Sand | 3602 | -1753 |
| Arbuckle | 3622 | -1773 |
| Rotary Total Depth | 3667 | -1818 |
| Log Total Depth | 3669 | -1820 |

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(All tops and zones corrected to Electric Log measurements.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2884-2897' Limestone; tan, fossiliferous, few chalky, fair fossil cast porosity, brown stain, trace of free oil, faint odor.

2998-3006' Limestone; cream, gray, finely crystalline, slightly fossiliferous, chalky, poorly developed porosity, trace spotty brown stain, trace of free oil and fair odor in fresh samples.

3052-3059' Limestone; tan, fossiliferous, scattered intercrystalline porosity, trace of free oil, faint odor in fresh samples.

TORONTO SECTION

3131-3140' Limestone; cream, light gray, finely crystalline, chalky, few cherty, poorly developed porosity, no shows, trace gray chert.

LANSING SECTION

3260-3270' Limestone; gray, cream, finely crystalline, slightly chalky, fossiliferous, poorly developed porosity, trace black "tarry" stain, no show of free oil or odor in fresh samples.

3292-3304' Limestone; cream/gray, finely crystalline, chalky, slightly fossiliferous, no shows.

3313-3318' Limestone; cream, oolitic, chalky, fair porosity, golden brown stain, show of free oil and faint odor in fresh samples.

3340-3349' Limestone; white, finely crystalline, fossiliferous/oolitic, chalky, poorly developed porosity, black gilsonitic stain, no show of free oil and no odor in fresh samples.

3356-3362' Limestone; tan, gray, oolitic in part, cherty, spotty brown and black stain, no show of free oil and no odor in fresh samples.

3401-3414' Limestone; cream, white, oomoldic, fair to good oomoldic porosity, golden brown stain, show of free oil and faint odor in fresh samples.

KANSAS CORPORATION COMMISSION

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Drill Stem Test #1 3399-3414'

Times: 30-45-45-60

Blow: Strong; gas to surface in 3 minutes, gas gauged as follows:

| | |
|---------------|---------------|
| Initial Flow: | |
| 10 minutes | 274,000 cfgpd |
| 20 minutes | 245,000 cfgpd |
| 30 minutes | 245,000 cfgpd |
| Final Flow: | |
| 5 minutes | 288,000 cfgpd |
| 15 minutes | 245,000 cfgpd |
| 25 minutes | 211,000 cfgpd |
| 35 minutes | 211,000 cfgpd |
| 45 minutes | 197,000 cfgpd |

Recovery: 280' gassy oil

Pressures: ISIP 967 psi
 FSIP 945 psi
 IFP 70-69 psi
 FFP 89-93 psi
 HSH 1647-1622 psi

3426-3430' Limestone; white, highly oolitic, poorly developed porosity, trace golden brown stain, trace of free oil, questionable odor in fresh samples.

- 3438-3442' Limestone; gray, white, finely crystalline, oolitic, chalky, fair fossil cast porosity, few scattered intercrystalline type porosity, golden brown stain, show of free oil and faint to fair odor in fresh samples.
- 3446-3454' Limestone; cream, gray, finely crystalline, oolitic in part, slightly cherty, poorly developed porosity, trace brown stain, show of free oil and faint odor in fresh samples.
- 3466-3472' Limestone; white, cream, chalky, fossiliferous, fair porosity, brown stain, trace of free oil and very faint odor in fresh samples.
- 3480-3500' Limestone; white, finely crystalline, chalky, poor visible porosity, no shows.

VIOLA SECTION

- 3537-3550' Chert; white, tan, gray, boney, few to tripolitic, good brown edge staining, scattered porosity, show of free oil and fair to faint odor in fresh samples.
- 3562-3572' Chert; as above, plus green/gray soft shale.

SIMPSON SECTION

- 3603-3607' Sand; grayish green, clear, fine, few coarse grained, poorly sorted, few friable, black stain, trace of free oil and fair odor in fresh samples.

ARBUCKLE SECTION

- 3621-3630' Dolomite; cream, finely crystalline, slightly cherty, poor porosity, trace brown stain, no show of free oil and faint odor in fresh samples.
- 3630-3638' Dolomite; cream, white, finely crystalline, poor porosity, no shows.
- 3638-3650' Dolomite; cream, finely crystalline, scattered intercrystalline porosity, brown stain, trace of free oil and strong odor in fresh samples.
- 3650-3667' Dolomite; white, cream, finely crystalline, slightly cherty, few scattered intercrystalline to fine vuggy type porosity, no shows.

KANSAS CORPORATION COMMISSION
APR 29 2009
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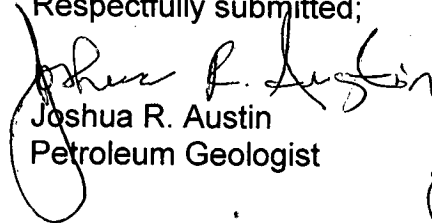
Rotary Total Depth 3667 (-1818)
Log Total Depth 3669 (-1820)

Recommendations:

5 1/2" production casing was set and cemented to further test the following zones:

1. Lansing 'K' Zone 3466-3470 perforate
2. Lansing 'J' Zone 3438-3442 perforate
3. Lansing 'H' Zone 3402-3408 perforate

Respectfully submitted;


Joshua R. Austin
Petroleum Geologist

