



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204585
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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 Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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 cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1204585

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

RITCHIE EXPLORATION, INC.

WELL: JOSEPH #4

LOC.: 1200' FNL & 600' FEL

SEC. 30-13-31W

GOVE COUNTY, KANSAS

API: 15-063-22185-00-00

DRILLING CONTR.: DISCOVERY RIG #1

SPUD: 03-05-14 COMP: 03-16-14

MUD UP: 2800' TYPE MUD: CHEM.

DRILL TIME: 3500 to RTD

RTD: 4675' LTD: 4578'

SAMPLES SAVED: 3600'-RTD

GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2876

GL: 2868

LOG MEASURED FROM: KB

SURFACE CASING

20# 8 5/8" Casing set @ 218' w/175 SX

PRODUCTION CASING

5 1/2" Set

WELL LOG SURVEYS

DIL/CDL

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS A	POS B	POS C
Anhydrite	2353	+523	+2	-3	+2
Base Anhydrite	2374	+502	+5	-2	+3
Heebner	3663	-987	+8	-3	+2
Toronto	3990	-1014	+3	-7	-1
Lansing	3910	-1034	+9	-6	+1
Muncie	4058	-1182	+10	-5	Flat
Stark	4146	-1270	+5	-7	+1
Marm	4238	-1362	+5	-2	+2
Pawnee	4339	-1463	+11	Flat	+4
Fort Scott	4395	-1519	+8	-2	+3
Cher SH	4423	-1547	+11	Flat	+3
Johnson	4467	-1591	+10	-2	+1
Base Johnson	4486	-1612	+9	-1	+1
Mississippian	4515	-1639	+12	-12	+14

DAILY REPORT @ 7:00 A.M.

3-5-14 MIRU, SPUD

3-6-14 636'

3-7-14 2369'

3-8-14 3408'

3-9-14 3955'

3-10-14 3982'

3-11-14 4060'

3-12-14 4120'

3-13-14 4175'

3-14-14 4268'

3-15-14 4439'

3-16-14 4553'

REFERENCE WELL:

Well A: Joseph #3 350' FNL & 1230' FEL 30-13S-13W

Well B: Joseph #1 390' FNL & 360' FEL 30-13S-13W

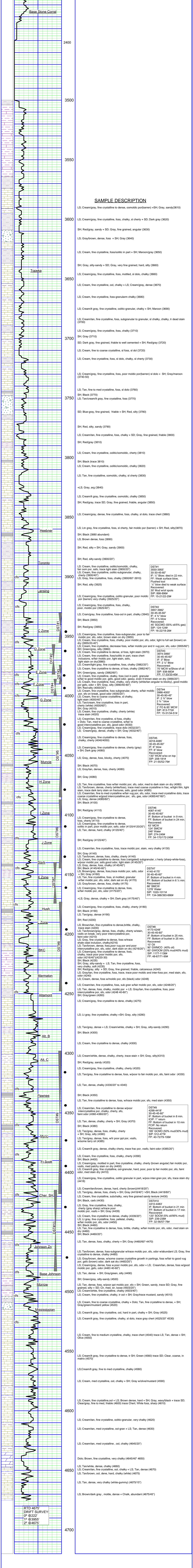
Well C: Joseph-Hess #1 1700' FSL & 175' FEL 30-13S-13W

REMARKS AND RECOMMENDATIONS

Production pipe was run by the operator to further test this well for commercial production.

Respectfully Submitted,

Robert J. Petersen



SAMPLE DESCRIPTION

LS: Cream/gray, fine crystalline to dense, oomoldic por(barren) +SH; Gray, sandy(3610)

LS: Cream/gray, fine crystalline, foss, chalky, sl cherty + SD; Dark gray (3620)

SH: Red/gray, sandy + SD; Gray, fine grained, angular (3630)

LS: Gray/brown, dense, foss + SH; Gray (3640)

LS: Cream, fine crystalline, foss/oilitic in part + SH; Maroon/gray (3650)

SH: Gray, silty-sandy + SD; Gray, very fine grained, hard, silty (3660)

LS: Cream/gray, fine crystalline, foss, mottled, sl dolo, chalky (3660)

LS: Cream, fine crystalline, ool, chalky + LS; Cream/gray, dense (3670)

LS: Cream, fine crystalline, foss-granular chalky (3680)

LS: Cream/lt gray, fine crystalline, oolitic-granular, chalky + SH; Maroon (3690)

LS: Cream/tan, fine crystalline, foss, subgranular to granular, sl chalky, chalky, tr dead stain (3700)

LS: Cream/gray, fine crystalline, foss, chalky (3710)

SH: Gray (3710)

SD: Dark gray, fine grained, friable to well cemented + SH; Red/gray (3720)

LS: Cream, fine to coarse crystalline, sl foss, sl dol (3720)

LS: Cream, fine crystalline, foss, sl dolo, chalky, sl cherty (3730)

LS: Cream/gray, fine crystalline, foss, poor moldic por(barren) sl dolo + SH; Gray/maroon (3740-50)

LS: Tan, fine to med crystalline, foss, sl dolo (3760)

SH: Black (3770)

LS: Tan/cream/lt gray, fine crystalline, foss (3770)

SD: Blue-gray, fine grained, friable + SH; Red, silty (3780)

SH: Red, silty, sandy (3790)

LS: Cream/tan, fine crystalline, foss, chalky + SD; Gray, fine grained, friable (3800)

SH: Red/gray (3810)

LS: Cream, fine crystalline, oolitic/oomoldic, cherty (3810)

SH: Black (trace 3810)

LS: Cream, fine crystalline, oolitic/oomoldic, chalky (3820)

LS: Tan, fine crystalline, oomoldic, chalky, sl cherty (3830)

+LS: Gray, arg (3840)

LS: Cream/lt gray, fine crystalline, oomoldic, chalky (3850)

SH: Red/gray, trace SD; Gray, fine grained, friable, angular (3850)

LS: Cream/gray, dense, fine crystalline, foss, chalky, sl dolo, trace chert (3860)

LS: Ln gray, fine crystalline, foss, sl cherty, fair moldic por (barren) + SH; Red, silty(3870)

SH: Black (3880 abundant)

LS: Brown dense, foss (3890)

SH: Red, silty + SH; Gray, sandy (3900)

SH: Red, silty-sandy (3900/20')

LS: Cream, fine crystalline, oolitic/oomoldic, chalky, fair com por, sso, trace light stain (3900/20')

LS: Cream, fine crystalline, oolitic/subgranular, cherty (3900/40')

LS: Gray, fine crystalline, foss, chalky (3900/60'-3910)

SH: Red, silty (3925)

LS: Cream/gray, fine crystalline, oolitic-granular, poor moldic por (barren) very chalky (3925/20')

LS: Cream/gray, fine crystalline, foss, chalky, poor, moldic por (3925/40')

LS: Cram/gray, fine crystalline, foss-ool in part, chalky (3940)

SH: Black (3950)

SH: Red/gray (3955)

LS: Cream/gray, fine crystalline, foss-subgranular, poor to fair moldic por, sfo, odor, brown stain on dry (3955)

LS: Cream, fine crystalline, foss, chalky, poor moldic por, sfo, odor, light to full sat (brown) on dry (3955/20-40')

LS: Cream, fine crystalline, decrease foss, w/air moldic por and tr vug por, sfo, odor (3955/60')

SH: Green/gray, silty (3960)

LS: Cream, fine crystalline to dense, sl foss, light stain (3970)

LS: Cream, fine crystalline, foss/oilitic in part, trace chert inclusions, w/air moldic por, light stain, sfo, light stain on dry(3980)

LS: Cream/lt gray, fine crystalline, foss, chalky (3982/20')

LS: Cream, fine crystalline to dense, sl foss, chalky (3982/40')

SH: Green/gray, sandy (3982/60')

LS: Cream, fine crystalline, ckafo, foss (ool in part) granular w/air to good moldic por, gfo, good odor, gassy, even tr brown stain on dry (3990/20')

LS: Cream, fine crystalline, foss, chalky, very cherty (white/tan angular to blocky), good moldic por gfo, odor + SH; Gray, silty (3990/40-60')

SH: Red-silty (4000/20')

LS: Cream, fine crystalline, foss subgranular, cherty, w/air moldic por, sfo on break, good odor (4000/20')

+SH; Gray (4030)

LS: Gray, fine to coarse crystalline, sl chalky, light stain (4000/40')

LS: Tan/cream, fine crystalline, foss in part, cherty (white) (4000/60')

SH: Gray (4010)

LS: Cream, fine crystalline, chalky, cherty (white) trace stain (4020)

LS: Cream/tan, fine crystalline, sl foss, chalky + Dolo; Tan, med to coarse crystalline, w/air to good intercrystalline por, sfo, good odor (4030)

LS: Cream/gray, fine crystalline, trace dolo (4032/20')

LS: Cream/gray, dense, chalky + SH; Gray (4032/40')

LS: Cream/gray, fine crystalline to dense, foss, chalky, cherty (4040/4050)

LS: Cream/gray, fine crystalline to dense, cherty (gray) + SH; Dark gray (4060)

LS: Gray, dense, foss, blocky, cherty (4070)

SH: Black (4070)

LS: Gray/tan, dense, foss, cherty (4080)

SH: Gray (4080)

LS: Tan, fine crystalline, foss w/air moldic por, sfo, odor, med to dark stain on dry (4080)

LS: Tan/brown, dense, cherty (white/foss), trace med coarse crystalline in frac, w/light film, light stain, trace dark tarry stain on fractures, sfo, good odor (4085)

LS: Cream/tan, fine to med crystalline w/air vug por, sfo, odor, trace med crystalline dolo, trace coarse crystalline w/good intercrystalline por, sfo, gas, odor (4085/40'60')

LS: Gray, dense (4085/60')

SH: Black (4100)

SH: Red/gray (4110)

LS: Cream/gray, fine crystalline to dense, foss, cherty (4110)

LS: Cream/gray, fine crystalline to dense, foss (variegated) subgranular, cherty (sharp-white-foss), w/poor moldic por, sfo, odor, dark stain on dry (4115/20')

LS: Gray, dense, foss, chalky (4145/40')

SH: Black (4145/40-60')

LS: Brown/gray, dense, foss, silty, trace moldic por, sfo, odor, dark stain on dry (4170)

LS: Gray/brown, dense, foss, chalky (4175)

LS: Cream/gray, fine crystalline to dense, foss, w/air moldic por, sfo, odor (4175/20')

+LS: Gray, dense, chalky + SH; Dark gray (4175/40')

LS: Cream/gray, fine crystalline, foss, chalky, cherty (4180)

SH: Black (4190)

LS: Tan/gray, dense (4190)

SH: Red (4200)

LS: Brown/tan, fine crystalline to dense, brittle, chalky, trace stain (4200)

LS: Tan/brown/gray, dense, foss, chalky, cherty w/stain, vssfo on break, very poor intercrystalline por, faint odor (4210)

LS: Gray, fine crystalline to dense, foss w/trace shale clast inclusion, chalky(4216)

LS: Tan/brown, dense, foss-poor vug por and poor intercrystalline por, sfo, odor, dark stain on dry (4216/20')

LS: Cream/gray, fine crystalline to dense, foss, chalky, trace poor moldic por, sfo, odor (4216/40')(4220-30)

SH: Black (4235)

SH: Gray, silty-sandy + LS; Tan, fine crystalline, very chalky, soft (4235)

SH: Red/gray, silty + SD; Gray, fine grained, friable, calcareous (4240)

LS: Gray/tan, fine crystalline, foss, trace, trace poor moldic and inter-foss por, med stain, sfo, odor (4240)

LS: Cream, dense, foss w/moldic por, sfo (black) odor (4248)

LS: Cream/tan, fine crystalline, foss, sub gran w/air moldic por, sfo, odor (4248/20')

LS: Tan, dense, foss, chalky, moldic por + LS; Gray/tan, fine crystalline, foss, poor intercrystalline por, sfo, odor (4248 40-60')

SH: Gray/green (4260)

LS: Cream/gray, fine crystalline to dense, chalky (4270)

LS: Lt gray, fine crystalline, chalky +SH; Gray, silty (4280)

LS: Tan/gray, dense + LS; Cream/white, chalky + SH; Gray, silty-sandy (4290)

SH: Black (4300)

LS: Cream, fine crystalline to dense, chalky (4300)

LS: Cream/white, dense, chalky, cherty, trace stain + SH; Gray, silty(4310)

SH: Red/gray, sandy (4320)

LS: Cream/gray, fine crystalline, chalky, cherty (4320)

LS: Tan/gray, fine crystalline to dense, foss, w/poor to fair moldic por, sfo, faint odor (4330)

LS: Tan, dense, chalky (4330/20' to 4340)

SH: Black (4350)

LS: Tan, fine crystalline to dense, foss, w/trace moldic por, sfo, med stain (4350)

LS: Cream/tan, fine crystalline to dense w/poor intercrystalline por, chalky, cherty, sfo, faint odor (4360-4360/20')

LS: Tan, dense, chalky, cherty + SH; Gray (4370)

SH: Black (4380)

LS: Tan/gray, dense, foss, chalky, cherty + SH; Gray, silty (4380)

LS: Tan/gray, dense, foss, w/ir poor ppt por, vssfo, w/cream tarry oil (4385)

LS: Cream, fine crystalline, foss, chalky, cherty (4390)

SH: Black (4400)

LS: Cream/gray, mottled in part, fine crystalline, chalky, cherty (brown angular) fair moldic por, vssfo, med patchy stain on dry (4400)

LS: Cream/lt gray, fine crystalline, ool-granular, hard, poor, poor to fair moldic por, sfo, faint odor, med stain dry (4410)

LS: Cream/gray, fine crystalline, oolitic granular in part, w/poor inter-gran por, sfo, trace stain dry (4418)

LS: Cream/tan/brown, dense, hard, cherty (brown)(4418/20')

LS: Tan/gray, dense, foss, cherty + SH; Gray (4418/40') +SH; Black (4418/60')

LS: Cream, fine crystalline, subchaly, very fine grained sandy texture (4430)

SH: Black, carb (4430)

LS: Gray, fine crystalline, foss, chalky, cherty (gray sharp) w/trace poor moldic por, vssfo + SH; Gray (4439)

LS: Cream, fine crystalline to dense, chalky (4339/20')

LS: Lt gray, fine crystalline, foss, palledal, chalky, w/air moldic por, sfo, odor (4450)

SH: Black (4460)

LS: Tan, fine crystalline to dense, foss, brittle, chalky, w/air moldic por, sfo, odor, med stain on dry (4460)

SH: Black (4460/20')

LS: Tan, dense, foss, chalky, cherty + SH; Gray (4460/60'-4470)

LS: Tan/brown, dense, foss-subgranular w/trace moldic por, sfo, odor w/abundant LS; Gray, fine crystalline to dense, chalky (4480)

LS: Gray/brown, dense, w/some coarse crystalline growth in partings, foss w/air to good vug por, gfo (brown) odor, dark sat dry (4483/20')

LS: Cream/gray, dense, foss w/poor moldic por, sfo, odor + LS; Cream/tan, dense, foss w/good moldic por, gfo, odor (4483 40-60')

LS: Tan, dense + SH; Gray/green, silty (4490)

SH: Green/gray, sandy (4500)

LS: Tan, dense, foss, w/poor ppt moldic por, sfo + SH; Green, sandy, trace SD; Gray, fine grained, silty + SD; Clr, med, wr, loose (4503/20')

LS: Cream/white, fine crystalline, chalky (4503/40')

LS: Cream, fine crystalline, chalky, tr ool + SH; Gray/trace mustard, sandy (4510)

LS: Cream, fine to coarse crystalline, chalky + Dolo; Tan, fine crystalline to dense, + SH; Gray/green/mustard (4520)

LS: Cream/lt gray, fine crystalline, ool, hard in part, chalky + SH; Gray (4525)

LS: Cream/lt gray, fine crystalline, chalky, sl dolo, trace gray chert (4525/20' 4530)

LS: Cream, fine to medium crystalline, chalky, trace chert (4540) trace LS; Tan, dense + SH; Olive (4550)

LS: Cream/lt gray, fine to med crystalline, w/air (4580)

LS: Cream, med crystalline, ool, chalky + SH; Gray w/olive/mustard (4590)

LS: Cream, fine crystalline, ool + LS; Brown dense, hard + SH; Gray, waxily + trace SD; Clear/gray, fine to med, friable (4600) trace Chert, White foss, sharp (4610)

LS: Cream/tan, fine crystalline, oolitic-crystalline, very chalky (4620)

LS: Cream/tan, med crystalline, ool-gran + LS; Tan, dense (4630)

LS: Cream/tan, med crystalline, ool, chalky (4645/20')

Dolo; Brown, fine crystalline, very chalky (4645/40' 4650)

LS: Tan/white, dense, chalky (4660)

LS: Cream/tan, fine crystalline, ool, chalky + LS; Tan, dense (4670)

LS: Tan/brown, ool, dense, hard, chalky (white) (4675)

LS: Tan, dense, very chalky (white-gummy) (4675/15')

LS: Brown/dark gray, mottle, dense + Chalk, abundant (4675/45')

DST#1
3957-3982'
30-45-45-60'
IF: 4 3/4" blow
FF: 5' blow
Recovered:
120' SDCM (55% oil/5% gas)
SIP: 124-124#
SIP: 898-898#
FP: 15-21/22-29#

DST#2
3957-3982'
30-45-45-60'
IF: 4 3/4" blow
FF: 5' blow
Recovered:
45' SGC/MO (55% oil/5% gas)
SIP: 124-124#
SIP: 17-33/33-45#

DST#4
3986-4000'
30-45-45-60'
IF: 2 1/2" blow
Recovered:
2' FO & 85' MCW
SIP: 813-772#
FP: 15-31/34-51#

DST#5
4018-4085'
30-45-45-60'
IF: 4 3/4" blow
FF: 6' blow
Recovered:
130' WCM w/sfo on top
SIP: 21-55/52-79#

DST#6
4173-4248'
30-45-45-60'
IF: Bottom of bucket in 9 min.
FF: Bottom of bucket in 24 min.
Recovered:
63' MCW
121' SDCM
248' Water
SIP: 1020-1011#
FP: 134-389/399-66#

DST#7
4140-4175'
30-45-45-60'
IF: Bottom of bucket in 4 min.
FF: Bottom of bucket in 6 1/2 min.
Recovered:
86' SMCW
1278' Water
SIP: 1020-1011#
FP: 134-389/399-66#

DST#8
4173-4248'
30-45-45-60'
IF: Bottom of bucket in 25 min.
FF: Bottom of bucket in 17 min
Recovered:
10' Oil
30' GWOCMO (40% oil)
60' GWOCMO (20% mud/40% mud)
SIP: 1177-1138#
FP: 48-67/71-99#

DST#9
4298-4418'
30-45-45-60'
IF: Bottom of bucket in 8 min.
ICIP: 1" return
FF: Bottom of bucket in 10 min
Recovered:
185' GCMO (50% mud/30% mud)
SIP: 512-477#
FP: 32-236/57-78#

DST#10
4410-4440'
30-45-45-60'
IF: Bottom of bucket in 21 min
FF: Bottom of bucket in 17 min
Recovered:
120' SDCM (55% oil/5% mud)
SIP: 239-238#
FP: 32-236/57-78#

RTD 4675'
DRIFT SURVEY
0° @ 2225'
1° @ 3955'
2° @ 4675'



#4 Joseph

1200' FNL & 600' FEL

120' N & 60' E of E/2 NE Section 30-13S-31W

Gove County, Kansas

API# 15-063-22185-0000

Elevation: 2868' GL, 2876' KB

Sample Tops			Ref. Well
Anhydrite	2356'	+520	-6
B/Anhydrite	2377'	+499	-5
Heebner	3863'	-987	-3
Toronto	3890'	-1014	-7
Lansing	3913'	-1037	-9
Muncie Shale	4057'	-1181	-4
Stark Shale	4141'	-1265	-2
Hush	4179'	-1303	Flat
BKC	4213'	-1337	+3
Marmaton	4235'	-1359	+1
Altamont	4251'	-1375	+2
Pawnee	4337'	-1461	+2
Myrick	4371'	-1495	+5
Fort Scott	4393'	-1517	Flat
Cherokee Shale	4422'	-1546	+1
Johnson	4464'	-1588	+1
Morrow	4495'	-1619	Flat
Mississippian	4516'	-1640	-13
RTD	4675'	-1799	



#4 Joseph
 1200' FNL & 600' FEL
 120' N & 60' E of E/2 NE Section 30-13S-31W
 Gove County, Kansas
 API# 15-063-22185-0000
 Elevation: 2868' GL, 2876' KB

Sample Tops			Ref. Well
Anhydrite	2356'	+520	-6
B/Anhydrite	2377'	+499	-5
Heebner	3863'	-987	-3
Toronto	3890'	-1014	-7
Lansing	3913'	-1037	-9
Muncie Shale	4057'	-1181	-4
Stark Shale	4141'	-1265	-2
Hush	4179'	-1303	Flat
BKC	4213'	-1337	+3
Marmaton	4235'	-1359	+1
Altamont	4251'	-1375	+2
Pawnee	4337'	-1461	+2
Myrick	4371'	-1495	+5
Fort Scott	4393'	-1517	Flat
Cherokee Shale	4422'	-1546	+1
Johnson	4464'	-1588	+1
Morrow	4495'	-1619	Flat
Mississippian	4516'	-1640	-13
RTD	4675'	-1799	

ALLIED OIL & GAS SERVICES, LLC 061983

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

DATE <u>3-5-14</u>	SEC. <u>30</u>	TWP. <u>13S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>Joseph</u>		WELL # <u>#4</u>		LOCATION <u>Oakley 11.5 SE 35 W 15</u>		COUNTY <u>GOV. KS</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)				<u>into</u>			

CONTRACTOR Discovery #1
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 222
CASINO SIZE 8 5/8 DEPTH 222
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LBFT IN CSG. _____
PERFS. _____
DISPLACEMENT 13 mba
EQUIPMENT _____

PUMP TRUCK CEMENTER Kelly Crabel
422 HELPER Wayne Magby
BULK TRUCK _____
396306 DRIVER Thomas (105)
BULK TRUCK _____
_____ DRIVER _____

REMARKS:

piggied up
mixed 165 SKS com 3+2
displaced with water
shut in
Cement did circulate
Thank You
Kelly & crew

CHARGE TO: Ritchie Exploration
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Cliff Mayfield
SIGNATURE _____

OWNER same
CEMENT AMOUNT ORDERED 165 SKS com 3% GEL
2% gel
COMMON 165 SKS @ 17.80 = 2953.50
POZMIX _____ @ _____
OEL 35 SKS @ 34.80 = 1218.00
CHLORIDE 95 SKS @ 64.00 = 6080.00
ASC _____ @ _____
HANDLING 178.42 @ 2.48 = 442.88
MILEAGE 7.76 for 20 x 2.82 = 21.88
TOTAL 4175.20

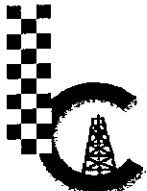
SERVICE

DEPTH OF JOB _____ 222
PUMP TRUCK CHARGE _____ 1512.25
EXTRA FOOTAGE _____ @ _____
MILEAGE MHV 20 @ 72.70 = 1540.00
MANIFOLD _____ @ _____
MHV 20 @ 440 = 880
TOTAL 1754.25

PLUG & FLOAT EQUIPMENT

TOTAL _____

SALES TAX (if Any) _____
TOTAL CHARGES 6,229.45
DISCOUNT 1,245.89 IF PAID IN 30 DAYS
4,983.56 Net.



CONSOLIDATED
Oil Well Services, LLC

266621

TICKET NUMBER 43053

LOCATION Oakley B.

FOREMAN Dawson

FIELD TICKET & TREATMENT REPORT
CEMENT

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3/17/14	7173	Joseph #4	30	13	31	GOVE
CUSTOMER <u>Ritchie Exploration</u>			Okley			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			57	Cory		
STATE			693	Steven		
ZIP CODE			Helper	Fuzzy		

JOB TYPE Long String HOLE SIZE 7 7/8 HOLE DEPTH 4678 CASING SIZE & WEIGHT 5 1/2, 15.5
 CASING DEPTH 4662 DRILL PIPE _____ TUBING _____ OTHER Port Collar 2323
 SLURRY WEIGHT 14.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 21'
 DISPLACEMENT 110.45 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting Rig up on Discovery Rig #1 Run casing & float
Equipment Turbas on 1, 4, 7, 13, 17, 19, 56, 59 Baskets on 11, 56, 71, 90, 97
Port Collar on #57 Circulate 15 min Drop Ball Circulate 45 min Hookup
to Pump Truck Pump 5 water ahead mix mud Flush 5 water Behind. Plug RH
30 SKs. Plug M.H. 20 SKs. mix 200 SKs OWC #Kolseal Shut Dixon washup
Pump & Lines Displace 110.45 bbl water Lift 1200' Land 1700' Bleed Back To
500' Shut in Rig Down Plug down 9:30 AM

Thanks Dawson & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	\$ 3175. ⁰⁰	\$ 3175. ⁰⁰
5406	15	MILEAGE	\$ 5. ²⁵	\$ 78. ⁷⁵
5407	11.75	Ton mileage Delivery (min)	\$ 1. ⁷⁵	\$ 430. ⁰⁰
1126	250 SKS	Oxal	\$ 23. ²⁰	\$ 5925. ⁰⁰
1137	63	CDL-26	\$ 10. ²⁰	\$ 642. ⁶⁰
1146	35	CAF 38	\$ 10. ²⁰	\$ 357. ⁰⁰
1110 A	1250 ⁺	Kolseal	\$.56	\$ 700. ⁰⁰
1144 G	500 Gal	mud Flush	\$ 1. ⁰⁰	\$ 500. ⁰⁰
4159	1	5.5 AFU Float Shoe. (w)	\$ 433. ²⁵	\$ 433. ²⁵
4454	1	5.5 Latch Down Plug Assy (T)	\$ 318. ²⁵	\$ 318. ²⁵
4136	8	5.5 Turbalizers (w)	\$ 75. ⁷⁵	\$ 606. ⁰⁰
4104	5	5.5 Baskets (w)	\$ 290. ⁰⁰	\$ 1450. ⁰⁰
4285	1	5.5 Port Collar (T) ^{SRB} 1311327	\$ 2178. ²⁵	\$ 2178. ²⁵
1111	100 #	Salt	NC	NC
			Sub Total	\$ 16795. ¹⁰
			Less 10 %	\$ 1679. ⁵¹
			Sub Total	\$ 15115. ⁵⁹
			7.9 SALES TAX	930. ²²
			ESTIMATED TOTAL	16047. ⁸¹

completed

Ravin 3737

AUTHORIZATION [Signature] DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



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

266814

TICKET NUMBER 47564

LOCATION Oakley KS

FOREMAN Dane Petzloff

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE #	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-21-14	7173	Joseph # 4	30	13	31	Logan
CUSTOMER			KS			
MAILING ADDRESS			TRUCK #		DRIVER	
CITY			TRUCK #		DRIVER	

Ritchie Exploration
405 Travis
528 Lance
Helper Dale
Supervisor Walt

OKLEY
5 to gove
RD 3 E
8 south
west side

JOB TYPE Part Collar HOLE SIZE 7 7/8 HOLE DEPTH _____ CASING SIZE & WEIGHT 1 1/2
CASING DEPTH _____ DRILL PIPE _____ TUBING 2 7/8 OTHER Part Collar at 2323
SLURRY WEIGHT 12.5 SLURRY VOL 1.59 WATER gal/sk 8.9 CEMENT LEFT IN CASING 1.881
DISPLACEMENT 12.7 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on mud fin pulling unit. Rig pump truck up. Test tool at 1200 psi. Hold. Mix 950 sks 60/40 680 1/4 fls. Wash up pump + lines. Displace 12.5 Bbls shot down. Test tool hold. Reverse clean with 28 Bbls. rig dump.

Thanks Dane, Walt, crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1785.00	1785.00 ✓
5406	15	MILEAGE	5.25	78.75 ✓
5407	15.85	Truck mileage Delivery (min)	450.00	7100.00 ✓
1131	350 SKS	60/40 Poz mix	15.86	5551.00 ✓
11108	1866	Bentonite	.27	503.82 ✓
1107	87.	Flaseal	2.97	258.39 ✓
1105	500	Cotton Seed hulls	.58	290.00 ✓
			Sub	8896.96 ✓
			Less 10%	889.70 ✓
			Sub	8007.26 ✓

completed

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____
SALES TAX ESTIMATED TOTAL 7.65 454.164 8461.90 ✓

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.