STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL PERMIT APPLICATION
(TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

FORM OGC-3I

RECEIVED
JUN 13 2013
Mo Oil & Gas Council

NOTE ▶ Permit approval **for drilling only, not injection**. Approval or denial for injection determined after Mechanical Integrity Test results reviewed and official notification given.

☑ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☐ FOR AN OIL WELL ☐ OR GAS WELL

NAME OF COMPANY OR OPERATOR			DATE
Kansas Resource Exploration & Development, LLC			05/10/2013
ADDRESS	CITY	STATE	ZIP CODE
9393 W 110th Street, Suite 500	Overland Park	KS	66210

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE	WELL NUMBER	ELEVATION (GROUND
Walton Clark - Miller exemption	KRI 20-3	1050'

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)
1326 ft. from ☑ North ☐ South section line 2317 ft. from ☑ East ☐ West section line

WELL LOCATION	LATITUDE	LONGITUDE	COUNTY
Sec. 4 Township 46 North Range 33 ☐ East ☑ West	N38 50' 32.83"	W94 34' 22.67"	Cass 037

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 261 FEET
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED – FOR WELL ON THE SAME LEASE 11 FEET

PROPOSED DEPTH	ROTARY OR CABLE TOOLS	DRILLING CONTRACTOR, NAME AND ADDRESS	APPROX. DATE WORK WILL START
650 feet 400'el ~200'el	Rotary	Utah Oil, LLC	06/15/2013

NUMBER OF ACRES IN LEASE: 85.58
NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 30
NUMBER OF ABANDONED WELLS ON LEASE 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
NAME DE Exploration
ADDRESS 4595 Highway K33, Wellsville, KS 66092

NO. OF WELLS: PRODUCING 29; INJECTION 0; INACTIVE 0; ABANDONED 0

STATUS OF BOND: ☐ SINGLE WELL AMOUNT $ ____ ☑ BLANKET BOND AMOUNT $ 280,000 ☑ ON FILE ☐ ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED)

PROPOSED CASING PROGRAM				APPROVED CASING – TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
20'	7"	14	8 sks	20'	7"	14	Fulllength
650'	2 7/8"	6.5	100 sks	650'	2 7/8"	6.5	

I, the Undersigned, state that I am the Chief Operating Officer of the Kansas Resource Exploration and Development, LLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE [signature] DATE 05/10/2013

PERMIT NUMBER 21293
APPROVED DATE 7-3-13
APPROVED BY Joseph A. Gillman

☑ DRILLER'S LOG REQUIRED
☑ CORE ANALYSIS REQUIRED IF RUN
☐ SAMPLES REQUIRED
☑ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT ____
☑ E-LOGS REQUIRED IF RUN
☑ DRILL SYSTEM TEST INFO REQUIRED IF RUN

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION. APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE

ONE (1) COPY WILL BE RETURNED.

I, Leech of the Utah (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE	DATE
B. Leech	6/11/13

PROPOSED OPERATIONS DATA

PROPOSED AVERAGE DAILY INJECTION,	measured @ wellhead PRESSURE 400 PSIG, RATE .035 BPD/GPM, VOLUME 50 BBL/GAL
APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST)	PRESSURE 400 PSIG, RATE .035 BPD/GPM, VOLUME 50 BBL/GAL
PROPOSED MAXIMUM DAILY INJECTION,	PRESSURE 400 PSIG, RATE .035 BPD/GPM, VOLUME 50 BBL/GAL
APPROVED MAXIMUM DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST)	PRESSURE 400 PSIG, RATE .035 BPD/GPM, VOLUME 50 BBL/GAL

ESTIMATED FRACTURE PRESSURE GRADIENT OF INJECTION ZONE 0.4 PSI/FOOT

DESCRIBE THE SOURCE OF THE INJECTION FLUID Squirrel return water and rural water

NOTE ▶ SUBMIT AN APPROPRIATE ANALYSIS OF THE INJECTION FLUID. (SUBMIT ON SEPARATE SHEET)

DESCRIBE THE COMPATIBILITY OF THE PROPOSED INJECTION FLUID WITH THAT OF THE RECEIVING FORMATIONS, INCLUDIUNG TOTAL DISSOLVED SOLIDS COMPARISONS

There is currently no injection on the Walton lease, however there are active squirrel sandstone water floods, using return water mixed with rural water, on the adjacent leases to the south, specifically the MacLaughlin lease and the Belton Unit lease. The current and past operator(s) has used these injection fluids since the water flood began with no problems.

GIVE AN ACCURATE DESCRIPTION OF THE INJECTION ZONE INCLUDING LITHOLOGIC DESCRIPTIONS, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

The depth of the squirrel sandstone on the Walton lease is approximately 550' to 600', with a thickness of approximately 50'. Based on the information received on the Belton Unit lease, which is located one mile from the Walton lease to the south, the average porosity of the squirrel sandstone is 22% with an average permeability of 270.8 millidarcy.

Please see the attached documents containing information on the lithologic description and geologic name of the injection zone.

GIVE AN ACCURATE DESCRIPTION OF THE CONFINING ZONES INCLUDING LITHOLOGIC DESCRIPTION, GEOLOGIC NAME, THICKNESS, DEPTH, POROSITY, AND PERMEABILITY.

The confining layers of the Squirrel Sandstone consist of two prominent shales which are the Labette shale, ranging from 30-50 feet thick located approximately at 525' and the Lagonda shale which ranges from 20-40 feet thick, located approximately at 600'. These shales have less than 5% porosity and contain very little to no permeability. According to "The Geology of North America, Vol. O-2, Hydrogeology, The Geological Society of America, 1988" written by Stanley N. Davis, "the intergranular permeability of shale is very low, as reflected in values given for samples 10 and 17 in Table 2. Most reliable laboratory measurements of the permeability of shale range between 10 -1 and 10 -4 millidarcys." Please see the attached Table 2 for further description.

SUBMIT ALL AVAILABLE LOGGING AND TESTING DATA ON THE WELL

GIVE A DETAILED DESCRIPTION OF ANY WELL NEEDING CORRECTIVE ACTION THAT PENETRATES THE INJECTION ZONE IN THE AREA OF REVIEW (1/2 MILE RADIUS AROUND WELL). INCLUDE THE REASON FOR AND PROPOSED CORRECTIVE ACTION.

No corrective action needed.

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO BOX 250, ROLLA, MO 65402 573/ 368-2143.
ONE (1) COPY WILL BE RETURNED.

TABLE 2. REPRESENTATIVE POROSITIES AND PERMEABILITIES OF SANDSTONE AND SHALE WITH VALUES FOR SALT AND COAL GIVEN FOR COMPARISON

Lithology	Formation or Geologic Age	Location	Porosity (%)	Permeability (md)	Field (F) or Laboratory (L)	Reference
1. Sandstone	Paskapoo	Alberta	—	4285	F	Garven (1982)
2. Sandstone	Paskapoo	Alberta	—	2640	F	Garven (1982)
3. Shale (fractured)	Paskapoo	Alberta	—	3230	F	Garven (1982)
4. Shale (fractured)	Paskapoo	Alberta	—	988	F	Garven (1982)
5. Mudstone	Cenozoic	North Dakota	—	4.6×10^{-2}	F	Rehm and others (1980)
6. Coal	Cenozoic	North Dakota	—	334	F	Rehm and others (1980)
7. Salt*	Permian	Texas	—	9.61×10^{-5} (horizontal)	—	INTERA (1986)
				9.61×10^{-6} (vertical)	—	
8. Shale*	Wolfcamp	Texas	—	9.61×10^{-5} (horizontal)	—	INTERA (1986)
				9.61×10^{-6} (vertical)	—	
9. Sandstone	—	—	—	0.15 (horizontal)	L	Young and others (1964)
				47.9 (vertical)	L	
10. Siltstone	—	—	—	2.4×10^{-7} (vertical)	L	Young and others (1964)
11. Sandstone	Wilcox	—	—	4740	F	Slaughter and others (1983)
12. Sandstone	Navajo	Utah	—	3.8	F	Woodward-Clyde (1984)
13. Sandstone	Dakota	Utah	—	10.9	F	Woodward-Clyde (1984)
14. Shale (fractured)†	Monterey	California	21	2690	L	Isherwood (1981)
15. Shale (fractured)	Green River	—	—	0.32	F	Isherwood (1981)
16. Shale (fractured, oil shale)	Green River	—	8	2.07	F	Isherwood (1981)
17. Shale	Graneros	Kansas	11.6	4.7×10^{-5}	L	Isherwood (1981)
18. Sandstone	Bradford	—	14.8	2.7	L	Davis and DeWiest (1966)
19. Sandstone	Berea	—	19	383	L	Davis and DeWiest (1966)
20. Sandstone	Repeto	—	19.1	36	L	Davis and DeWiest (1966)
21. Sandstone§	Cambrian	—	11.2	—	L	Manger (1963)
22. Sandstone‡	Pennsylvanian	—	17.4	—	L	Manger (1963)

*Values used in ground-water model.
†Average of 56 samples within an interval of 39 m. Porosity range 14% to 29%. Permeability range 89 md to 16,500 md.
§Average of 16 samples.
‡Average of 587 samples.

techniques may introduce large variations in the values reported in Table 2, these variations are still much smaller than the fundamental variations related to lithology and structure.

Studies of lightly cemented sandstones have shown that, like their nonindurated counterparts, grain size plays a dominant role in determining the permeability of the rock (Johnson and Greenkorn, 1963). Very roughly, the permeability increases as the square of the grain size. This simple relationship tends to break down as cementing and compaction decrease the pore size. For medium-grained sandstones with porosities between 0.15 and 0.25, a very rough correlation also exists between porosity and permeability. This correlation is actually quite good for some data sets, particularly if it is based on measurements of a single, poorly lithified sandstone unit that has a rather uniform grain size. An example of one of the numerous equations relating porosity to permeability is given below:

$$k = D^2\phi^{5.5/5.6C}$$

in which k is permeability, D is an effective grain size, ϕ is porosity, and C is a dimensionless constant. This equation was given by Dullien (1979). Most similar equations also show an exponential relation between porosity and permeability.

As the porosity of a sandstone decreases, particularly below 0.15, the permeability depends more on the presence of throughgoing secondary fractures rather than on the original porosity within the rock. As porosity decreases below 0.05, permeability is almost entirely dependent on the presence of fractures. Thus, in the case of a quartz sandstone with a brittle cement that is in a highly fractured zone, the present permeability may exceed the original permeability of the antecendent sand (Fig. 2). In general, the hydrogeology of all highly indurated sediments is profoundly affected by fractures, and the fractures account for very large local permeabilities (Huntoon, 1986; Huntoon and Lundy, 1979).

If a large number of permeability measurements are made of a single stratigraphic unit, the resulting values appear to have a log-normal statistical distribution (Fig. 3; Davis, 1969). The ex-

Re: Benjamin Lease Injection Well Applications

In reference to your concern about the confining layers of the Squirrel sandstone in the Belton area I wish to present the following information concerning the reservoir at Belton which has become known from our operations and as provided by our consulting engineer.

The reservoir(s) in the Belton are actually a stacked series of sand bodies, point bars, consisting of the Englevale sandstone in the Labette shale and three or more sand zones in the Squirrel section of the Cherokee Group. The Fort Scott section is missing, evidently removed by erosion during the time of the Englevale development. In some cases the Englevale is in contact with the Squirrel and may appear as one vertically continuous reservoir. Consequently, the upper boundary of the Englevale is the Labette shale – the upper confining layer.

The Squirrel sandstones exhibit lateral facies changes from sandstone to shaly sand to sandy shale to shale. Vertically, the change from sand to shale may be very abrupt, especially in the base of the paleo-channel. The confining layers below the Squirrel sandstone will be shale of the Lagonda formation of the Cherokee.

We are a little concerned about applying limitations to porosity values of the confining zones since shale is typically exhibits porosity of about 20%, but due to their sedimentary nature they are impervious, thus they provide an excellent seal. Our concern in developing an injection program is for proper casing and cementing design and wellbore stimulation within zone. At Belton, our experience is that fractures are not going "out of zone". This is because the boundary layers are impervious and fractures are created in sandstone at a lower pressure than in shale, thus staying within the stimulated zone. That is, the fracture treating pressures in the sandstone are not sufficient to fracture the overlying shale. Waterflood operations will never experience pressures utilized during hydraulic fracturing, thus we are highly confident of the geologic integrity.

Our consulting engineer reviewed the policy of several other oil producing states and could not find any concern about confining zones in their secondary recovery regulations. In addition, he reviewed several water flooding engineering texts and could find no mention of consideration of confining zones in any of the texts.

With the many years of successful operations in Western Missouri and adjacent areas of Kansas, where hundreds of water floods have been performed in the Squirrel sandstone, the confining shales have proven to be an adequate seal for waterflood operations. Thus, it is our request that this aspect of the approval process be accepted, based upon the above stated reasons and, especially, the history of successful operations within this scenario.

Very truly yours,

Bradley Kramer

minimum stress at the borehole, and must also overcome the tensile strength of the rock. This can be expressed as follows:

$$(P_i)_v = 3\,\bar{\sigma}_{h_2} - \bar{\sigma}_{h_1} + S_h + P \qquad (5)$$

where:

$(P_i)_v$ = borehole pressure required to initiate vertical fracture
$\bar{\sigma}_{h_1}$ = maximum principal horizontal matrix stress
$\bar{\sigma}_{h_2}$ = minimum principal horizontal matrix stress
S_h = horizontal tensile strength of rock
P = formation pore pressure

Penetrating Fluid Reduces Breakdown Pressure—A penetrating fluid increases the area over which pressurized fluid contacts the formation and can reduce the pressure necessary to initiate fracturing.

Laboratory and theoretical work by Fairhurst and Haimson[21] provides a basis for estimation of the magnitude of reduction in openhole. Generally reduction may be on the order of 25 to 40% in openhole.

Perforation Density and Orientation—Recent laboratory work in cased hole shows that breakdown or frac initiation pressure is affected by the number and arrangement of perforations.[22]

The existence of casing and the arrangement of perforations have little effect on created fracture orientation, but breakdown pressure is reduced by increased number of perforations. The practice of perforating with all shots in a vertical line on one side of the casing, Figure 8-6 significantly increases breakdown pressure if the perforations happen to be oriented 90° to the azimuth of the vertical fracture plane. Orientation of perforations does not affect azimuth of the vertical fracture however.

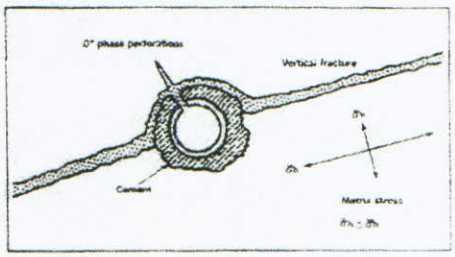


FIG. 8-6—*Orientation of perforation vs. least horizontal matrix stress. Condition resulting in highest breakdown pressure.*

Fracture Propagation

Once the fracture has been created and invaded by pressured fluid, the stress concentration near the wellbore is reduced, and the hydraulic pressure required to extend the fracture must merely overcome the component of the undisturbed stress field normal to the plane of the fracture.

Measuring Propagation Pressure and Frac Gradient—The fracture propagation pressure (and frac gradient) can be obtained during the fracing operation by recording the wellhead pressure immediately after the pumps are shut down following injection into the fracture (Figure 8-7). Since the frac gradient is increased by increased pore pressure, this measurement should be made before the pore pressure is significantly raised by the injected frac fluid.

Wellhead instantaneous shut-in pressure, corrected to the hole bottom by adding the hydrostatic pressure of the wellbore fluid column, is the *fracture propagation pressure. Fracture gradient* is the fracture propagation pressure divided by the formation depth.

Measuring Rock Matrix Stress—The minimum horizontal rock matrix stress is then:

$$\bar{\sigma}_{h_1} = \text{propagation pressure} - \text{pore pressure}$$

This stress is of particular interest because it is the stress which propping agents must withstand in order to hold the fracture open. In actual practice pore pressure can be equated to static reservoir pressure provided fracture propagation pressure is measured before significant frac fluid is injected to raise the pore pressure level near the wellbore.

It should be noted that proppant in the critical area near the wellbore is subjected to more stress than that further away due to lower pore pressure near the wellbore in the producing process, Figure 8-8. This effect may be significant at high drawdown pressures.

Fracture Orientation

Fracture Propagates Perpendicular to Smallest Stress—Rocks fracture in a plane perpendicular to

Proposed Injection Volumes

Injection volumes are determined by using analogy from previous and current squirrel sandstone water floods that contain similar reservoir characteristics. In the case of the Benjamin lease we plan to inject 1 barrel of water for every 1 net foot of oil bearing sandstone, assuming this rate does not exceed he maximum approved injection pressure. Depending on the duration and impact of the surrounding wells, some injection wells may ultimately inject up to 3 barrels of water for every 1 net foot of oil bearing sandstone.

Due to the permeability variance of the reservoir we typically will not exceed 15' of perforations per water injection well.

Example;

Year 1

15' of perforations x 1 bbl/ft = 15 BPD injection rate

Year 2

15' of perforations x 2 bbl/ft = 30 BPD injection rate

Year 3 through Year 20

15' of perforations x 3 bbl/ft = 45 BPD injection rate

We typically do not exceed 3 bbl/ft injection rate per day per well, which is why we are requesting 50 BPD rate.

Benjamin Lease, Cass County, Missouri

Re: Closure Pressure

Attached is a reproduction from *"Production Operations, Vol. 2"* by Allen and Roberts describing the fracturing pressures in a reservoir.

The fracture propagation pressure is approximately the same as the closure pressure, although slightly higher. This difference is less significant in low pressure reservoirs such as the ones in the Cherokee Basin, consequently, they are considered to be the same. The fracture propagation pressure is the same as the instantaneous shut-in pressure (ISIP) experienced upon cessation of a hydraulic fracture treatment. The ISIP from a fracture procedure is the surface pressure measurement. Bottom-hole ISIP must be calculated by adding the surface ISIP and the product of the depth to mid-perforations (feet) and the pressure gradient of the fluid in the wellbore (psi/foot). For fresh water the fluid gradient is 0.434 psi/foot. Since the fluid in fracture operations is more dense than fresh water most engineers estimate the bottom-hole ISIP with a higher gradient. The state of Oklahoma uses a gradient of 0.50 psi/foot.

Listed below is a group of wells ISIP (Initial Shut In Pressure) that were recently stimulated on the Benjamin Lease in Section 9, Township 46N, Range 33 West, Cass County, Missouri. Please see the attached "fracture treatment reports" for verification of ISIP in the following wells.

Lease	Well	ISIP (Surface)
Benjamin	KR-10	575#
Benjamin	KR-14	500#
Benjamin	KR-15	525#
Benjamin	KR-20	500#
Benjamin	KR-26	450#
Benjamin	KR-27	550#
Benjamin	KR-29	475#
Benjamin	KR-31	450#
Benjamin	KR-33	550#

The fracture propagation pressure is the pressure in which the aperture of the existing fractures can begin to be opened. An increase in injection rate is noted at this point on injection step-rate tests. At injection pressures at, or slightly above, the ISIP, the fractures in the immediate vicinity of the wellbore (inches) may be affected but not into the reservoir significantly. In actual injection operations of a waterflood at ISIP, fractures wouldn't be created beyond the region adjacent to the wellbore because of; 1) fluid leak-off into the formation, 2) the injection of a low viscosity fluid, and 3) the extremely low injection rates - far less than what is necessary to create a fracture.

CONSOLIDATED
Oil Well Services, LLC

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

1ST well

TICKET NUMBER 54764
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-10	9	46N	33W	Cass

CUSTOMER: S+B Operating
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis	680T221	Stan
458	Tim	489T119	Dwayne
582	Daniel		
618T95	Jay		
619T91	George		
679T102	Junior		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 8EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
555-68-581-91	(49) Squirrel(s)

TYPE OF TREATMENT
Acidspot + Frac

CHEMICALS

RCL SUB Biocide	Breaker
Acid inhibitor	Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	13-16				BREAKDOWN 1000
16-30		16		500#		START PRESSURE
12-20		16				END PRESSURE
12-20		16		1,000#		BALL OFF PRESS
12-20 (8) + (7)	balls					ROCK SALT PRESS
12-20						ISIP 575
12-20				1,500#		5 MIN
12-20 (5) + (5)	balls					10 MIN
12-20	(25)					15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to T.D.			TOTAL	4,000#		DISPLACEMENT 3,5
OVERFLUSH	10	16	SAND			
TOTAL BBLS	130					

REMARKS: * held safety-procedure meeting before fracs
Spotted 100 gal-15% HCL acid on perfs / load 35 balls

location 10:00AM – 10:45AM 120 ± miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

2nd well

TICKET NUMBER 54765
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-14	9	46N	33W	Cass

CUSTOMER: S+B Operating
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
456	Tim		
582	Daniel		
618T95	Jay		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 8EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
564-74 (38)	Squirrel(s)
580-88	

TYPE OF TREATMENT
Acid spot + frac

CHEMICALS
KCLSUB - Biocide + Breaker
Acid - inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5			1100	BREAKDOWN 1100
16-30		15.5		500#		START PRESSURE
12-20				1000#		END PRESSURE
12-20 (5) + (5)						BALL OFF PRESS
12-20						ROCK SALT PRESS
12-20						ISIP 500
12-20				1,000#		5 MIN
12-20 (3) = (13) balls					1700	10 MIN
12-20						15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to T.D.			TOTAL	3,500#		DISPLACEMENT 3.4
OVERFLUSH	10	15.5	SAND		1100	
TOTAL BBLS	135					

REMARKS:

Spotted 100 gal - 15% HCL acid on perfs

location 10:45AM - 11:30AM 120: miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

3RD well

TICKET NUMBER 54766
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin RR-15	9	46N	33W	Cass

CUSTOMER: S+B Operating

MAILING ADDRESS:

CITY: | STATE: | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
458	Jim		
582	Daniel		
619T91	George		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 8rd EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
591-601 (21)	Squirrel

TYPE OF TREATMENT

Acid spot + frac

CHEMICALS

Kasub-Biocide	Breaker
Acid-inhibitor	Stim oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5				BREAKDOWN 1100
16-30		15.5		500#		START PRESSURE
12-20		15.5				END PRESSURE
12-20		15.5		1,000#		BALL OFF PRESS
12-20 (4) + (3)						ROCK SALT PRESS
12-20						ISIP 525
12-20				500#		5 MIN
12-20 + (3) = (10) balls						10 MIN
12-20						15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to T.D.			TOTAL	3,000#		DISPLACEMENT 3.5
OVERFLUSH	10	15.5	SAND			
TOTAL BBLS						

REMARKS:

Spotted 100 gal-15% HCL acid on perfs

location 11:30AM-12:00PM 120 miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

4TH well

TICKET NUMBER 54767
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-20	9	46N	33W	Cass

CUSTOMER: S+B Operating

MAILING ADDRESS:

CITY: | STATE: | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
458	Tim		
582	Daniel		
680T221	Stan		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 SEUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
611-15 (30)	Squirrel

TYPE OF TREATMENT
Acid spot + frac

CHEMICALS
KCLSUB - Biocide - Breaker
Acid - inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5			1150	BREAKDOWN 1200
16-30		15.5		500#		START PRESSURE
12-20		15.5			1200	END PRESSURE
12-20				1,000#	1150	BALL OFF PRESS
12-20 (5) + (5) balls						ROCK SALT PRESS
12-20						ISIP (500)
12-20				1,000#		5 MIN
12-20 (3) + (2)					1900	10 MIN
12-20	= (15)					15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to T.D.			TOTAL	3,500#		DISPLACEMENT 3.5
OVERFLUSH	10	15.5	SAND		1200	
TOTAL BBLS	138					

REMARKS:

Spotted 100 gal-15% HCL acid on perfs

location 12:00PM - 12:45PM 120 miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

8th well

TICKET NUMBER 54768
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-26	9	46N	33W	Cass

CUSTOMER: S+B Operating
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
458	Jim		
522	Daniel		
680T221	Stan		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
545-53 (51)	Squirrels
573-89	

TYPE OF TREATMENT
Acid spot + Frac

CHEMICALS
KCLSUB - Biocide - Breaker
Acid - inhibitor - Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5			700	BREAKDOWN 1200
16-30		15.5		500#		START PRESSURE
12-20						END PRESSURE
12-20				1,000#	750	BALL OFF PRESS
12-20 (10) + (5)				↓	1000	ROCK SALT PRESS
12-20						ISIP 450
12-20				1000#		5 MIN
12-20 (5) + (5)				500#		10 MIN
12-20 + (3)	(22)				1800	15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5				1500	MAX RATE
Release balls to ID			TOTAL	4,000 #		DISPLACEMENT 3,4
OVERFLUSH	10	15.5	SAND		750	
TOTAL BBLS	145					

REMARKS:

Spotted 100 gal. -15% HCL acid on perfs

location 3:00PM - 4:00PM 120: miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

5TH well

TICKET NUMBER 54769
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin RR-29	9	46N	33W	Cass

CUSTOMER: S+B Operating

MAILING ADDRESS:

CITY | STATE | ZIP CODE

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
482	Mark		
582	Daniel		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
585-605 (42)	Squeezed

TYPE OF TREATMENT

Acidspot + Frac

CHEMICALS

KCLSUB - Biocide - Breaker
Acid - inhibitor - Jimoil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5			850	BREAKDOWN 1100
16-30		15.5		500#		START PRESSURE
12-20		15.5				END PRESSURE
12-20				1,000#		BALL OFF PRESS
12-20 (8) + (7)						ROCK SALT PRESS
12-20						ISIP 475
12-20				1,000#		5 MIN
12-20 (5) + (5)						10 MIN
12-20 + (5)	30			500#	1400	15 MIN
12-20						MIN RATE
FLUSH CASING	5			1,000#		MAX RATE
Release balls to T.D.			TOTAL	4,000#		DISPLACEMENT 3.5
OVERFLUSH	10	15.5	SAND		900	
TOTAL BBLS	140					

REMARKS:

Spotted 100 gal 15% HCL acid on perfs

location 1:00PM – 1:30PM 120 ; miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

6TH well

TICKET NUMBER 54770
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-33				Cass

CUSTOMER: S+B Operating

MAILING ADDRESS:

CITY	STATE	ZIP CODE

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trompis		
458	Tim		
582	Daniel		
618T95	Jay		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
575-95 (42)	Squirrel

TYPE OF TREATMENT

Acid spot + Frac

CHEMICALS

KCLSUB-Biocide-	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5				BREAKDOWN 1000
16-30		15.5		500#		START PRESSURE
12-20						END PRESSURE
12-20				1,000#		BALL OFF PRESS
12-20 (8)+(7)						ROCK SALT PRESS
12-20						ISIP 550
12-20						5 MIN
12-20				1,000#		10 MIN
12-20 (5)+(5)	(30)			500#		15 MIN
12-20 +5				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to T.D.			TOTAL	4,000#		DISPLACEMENT 3.5
OVERFLUSH	10	15.5	SAND			
TOTAL BBLS						

REMARKS:

Spotted 100 gal-15% HCL acid on perfs

location 1:40PM - 2:00PM 120: miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

7TH well

TICKET NUMBER 54771
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-27	9	46N	33W	Cass

CUSTOMER: S&B Operating

MAILING ADDRESS:

CITY: | STATE: | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis		
482	Mark		
582	Daniel		
619T91	George		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
578-85 (24)	Squirrel
601-05	

TYPE OF TREATMENT

Acidspot + Frac

CHEMICALS

KCLSUB - Biocide	- Breaker
Acid - inhibitor	- Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.5				BREAKDOWN 1200
16-30		15.5		500#		START PRESSURE
12-20						END PRESSURE
12-20				1,000#		BALL OFF PRESS
12-20 (4) + (4)						ROCK SALT PRESS
12-20						ISIP 550
12-20				500#		5 MIN
12-20 + (2)	= (10)					10 MIN
12-20						15 MIN
12-20				1,000#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls 1/2 T.D.			TOTAL	3,000#		DISPLACEMENT 3.5
OVERFLUSH	10	15.5	SAND			
TOTAL BBLS	135					

REMARKS:

Spotted 100 gal - 15% HCL acid on perfs

location 2:15PM - 3:10PM 120 miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

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

9TH well

TICKET NUMBER 54772
FIELD TICKET REF # 48125
LOCATION Thayer
FOREMAN Brett Busby

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-27-12		Benjamin KR-31	9	46N	33W	Cass

CUSTOMER: S&B Operating

MAILING ADDRESS:

CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trompis		
482	Mark		
582	Daniel		
679T102	Junior		

WELL DATA

CASING SIZE	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE 2 7/8 8EUE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
552-62 (55)	Squirrels
571-97	

TYPE OF TREATMENT: Acidspot + Frac

CHEMICALS

KCLSUB - Biocide	- Breaker
Acid - inhibitor	- Stim Oil

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
PAD	20	15.8				BREAKDOWN 900
16-30		15.8	.5-1.0	500#		START PRESSURE
12-20 Balls ↓		15.8	1.0			END PRESSURE
12-20			2.0	1000#		BALL OFF PRESS
12-20 (10) + (5)	+ (5)		2-.5	↓		ROCK SALT PRESS
12-20			1.0			ISIP 450
12-20			2.0	1500#		~~5 MIN~~
12-20 (5) + (3)	+ (2)		.5	↓		10 MIN
12-20			1.0			15 MIN
12-20	(30)		2.0	1,500#		MIN RATE
FLUSH CASING	5					MAX RATE
Release balls to	T.D.		TOTAL	4,500 #		DISPLACEMENT 3.5
OVER FLUSH	10		SAND			
TOTAL BBLS	165					

REMARKS:

Spotted 100 gal-15% HCL acid on perfs

location 4:00PM — 5:00PM 120: miles

AUTHORIZATION _____ TITLE _____ DATE 12-27-12

Terms and Conditions are printed on reverse side.

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL LOCATION PLAT

RECEIVED
JUN 13 2013
Mo Oil & Gas Council

FORM OGC-41

OWNER'S NAME: Kansas Resource Exploration & Development, LLC

LEASE NAME: Walton KRI 20-3

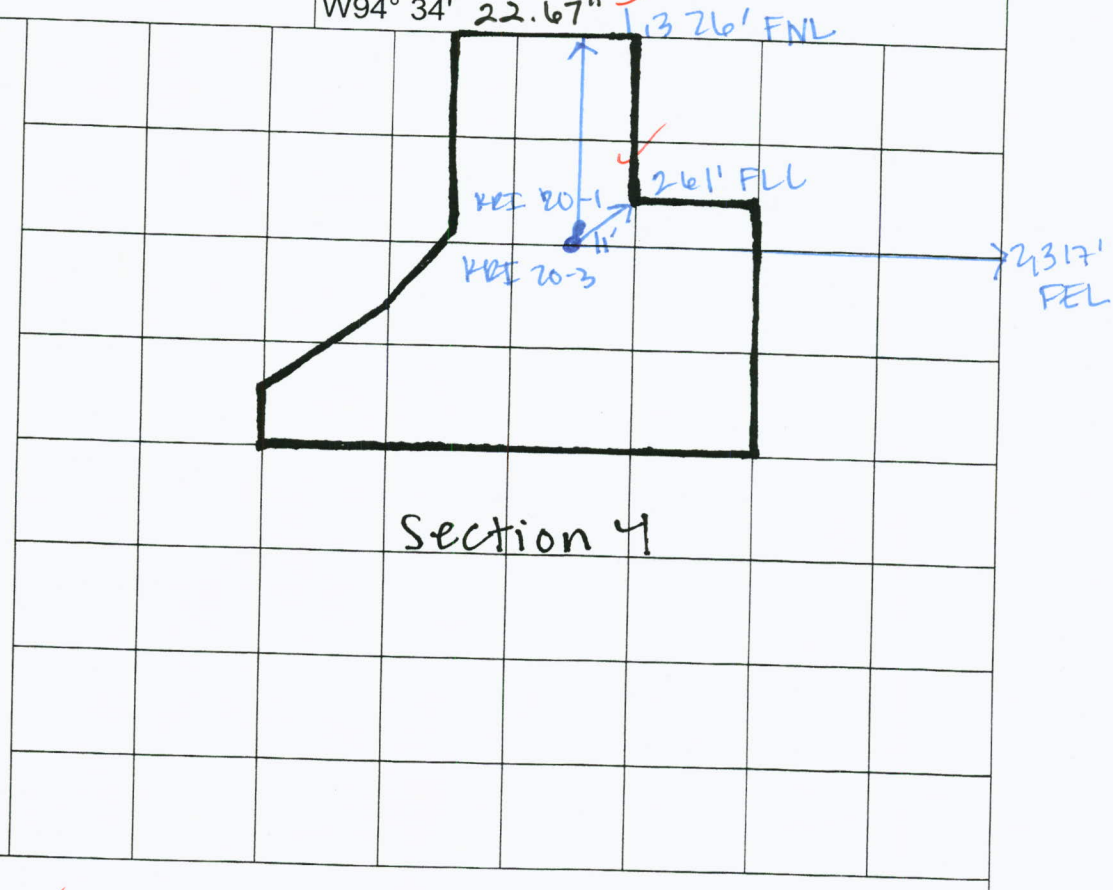
COUNTY: Cass

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES): 1326 ft. from ☒ North ☐ South section line 2317 ft. from ☒ East ☐ West section line

WELL LOCATION: Sec. 4 Township 46 North Range 33 ☐ East ☑ West

LATITUDE: N38° 50' 32.83"

LONGITUDE: W94° 34' 22.67"



REMARKS: Plat MapScale - 1 Square = 660 feet

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

REGISTERED LAND SURVEY

NUMBER

MO 780-1136 (02-11)

REMIT ONE (1) COPY TO: STATE OIL AND GAS COUNCIL, PO BOX 250, ROLLA, MO 65402 573-368-2143.

Missouri Department of Natural Resources
Geographic Information Systems

Check Location

Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).

Submit

Universal Transverse Mercator [Zone 15 North]

Easting
363491.1848727108 meters
Northing
4300592.347595069 meters

Decimal Degrees

Latitude
38.843563888888895 °
Longitude
-94.57296388888888 °

Degrees, Minutes and Seconds

Latitude Degrees
38 °
Latitude Minutes
50 '
Latitude Seconds
36.83 "
Longitude Degrees
-94 °
Longitude Minutes
34 '
Longitude Seconds
22.67 "

UTM Zone 15N [Easting, Northing]	[363491.1, 4300592.3] meters
Decimal Degrees [Lat, Lon]	[38.843563°, -94.572964°]
Deg, Min, Sec [Lat, Lon]	[38° 50' 36.8", -94° 34' 22.6"]
County Name	Cass
County FIPS Code	037
Legal Description	Section 04 T46N R33W
Municipality	Belton
House District	56
Senate District	31
Congressional District	4
MoDNR Region	Kansas City Regional Office
USGS 1:24,000 Quadrangle	Belton [38094-G5]
8 Digit Watershed	10300101 [Lower Missouri-Crooked]
10 Digit Watershed	1030010101 [Blue River]
12 Digit Watershed	103001010104 [Camp Branch-Blue River]
Special Well Drilling Area	Area 2
Ecological Drainage Unit	Central Plains/Blackwater/Lamine
Level III Ecoregion	Central Irregular Plains
Query Time	0.359 s

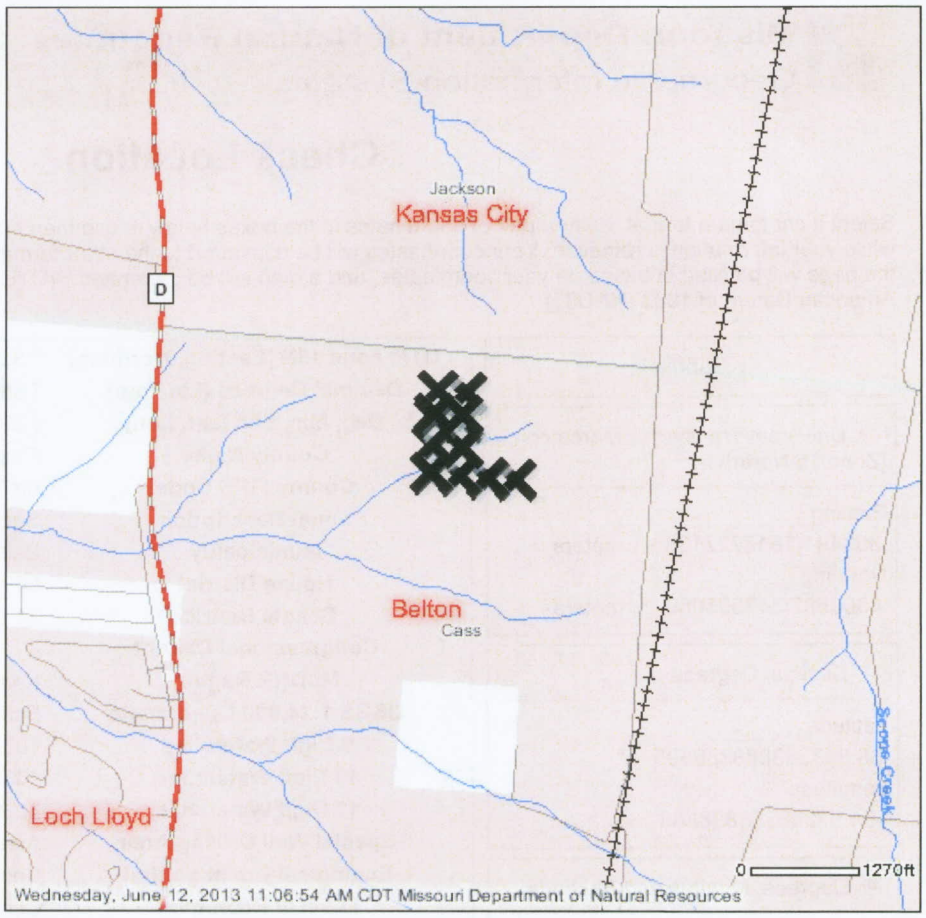
Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

Metadata

- Interstate Highways
- US Highways
- State Highways
- Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- Major Rivers
- Rivers and Streams
- Missouri River
- Mississippi River
- Municipal

Legend
- Interstate Highways
- US Highways
- State Highways
- Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- Major Rivers
- Rivers and Streams
- Missouri River
- Mississippi River
- Municipal



View Scale 1:24,000

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Missouri Department of Natural Resources

P.O. Box 176, Jefferson City, MO 65102
800-361-4827 / 573-751-3443
E-mail: contact@dnr.mo.gov

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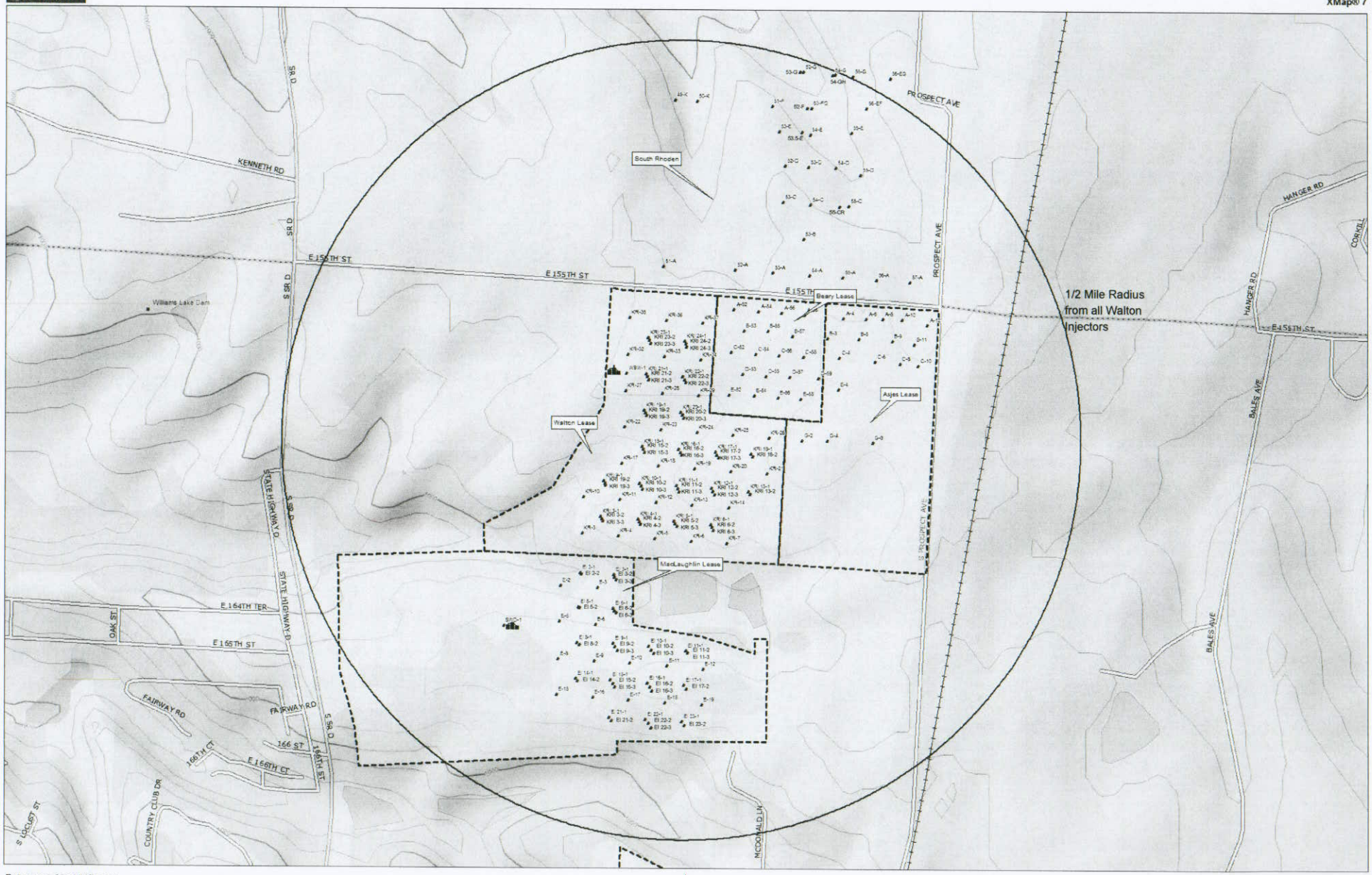

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MN (2.0° E)

0 500 1000 1500 ft

Data Zoom 14-4

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Sth Rhoden	55-D	1155 FROM (N)(S) SEC LINE 423 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	605'	I	08/23/1988	10/21/1988	Unknown
Sth Rhoden	54-D	1155 FROM (N)(S) SEC LINE 673 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	593'	I	08/26/1988	10/21/1988	Unknown
Sth Rhoden	53-D	1155 FROM (N)(S) SEC LINE 921 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	580'	I	04/10/1989	05/26/1989	Unknown
Sth Rhoden	52-D	1155 FROM (N)(S) SEC LINE 1131 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	613'	I	12/05/1990	03/01/1991	Unknown
Sth Rhoden	54-E	1455 FROM (N)(S) SEC LINE 910 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	576'	O	08/31/1988	10/12/1988	Unknown
Sth Rhoden	53-E	1485 FROM (N)(S) SEC LINE 1208 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	660'	O	06/10/1980	09/10/1980	Unknown
Sth Rhoden	55-E	1485 FROM (N)(S) SEC LINE 548 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	680'	O	06/11/1980	08/29/1980	Unknown
Sth Rhoden	53.5-E	1485 FROM (N)(S) SEC LINE 1000 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	566'	O	04/11/1989	06/30/1989	Unknown
Sth Rhoden	51-A	1165 FROM (N)(S) SEC LINE 2198 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	610'	O	05/25/1980	07/11/1980	Unknown

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Sth Rhoden	52-A	1165 FROM (N)(S) SEC LINE 1538 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	900'	O	05/26/1980	07/26/1980	Unknown
Sth Rhoden	53-A	1165 FROM (N)(S) SEC LINE 1208 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	620'	O	05/28/1980	07/11/1980	Unknown
Sth Rhoden	54-A	1165 FROM (N)(S) SEC LINE 878 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	620'	O	05/29/1980	07/11/1980	Unknown
Sth Rhoden	55-A	1165 FROM (N)(S) SEC LINE 548 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	620'	O	05/31/1980	07/11/1980	Unknown
Sth Rhoden	56-A	1165 FROM (N)(S) SEC LINE 218 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	660'	O	06/03/1980	07/26/1980	Unknown
Sth Rhoden	57-A	1165 FROM (N)(S) SEC LINE 112 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	660'	O	06/06/1980	03/06/1981	Unknown
Sth Rhoden	56-EF	1690 FROM (N)(S) SEC LINE 590 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	662'	O	12/06/2011	12/08/2011	Unknown
Sth Rhoden	51-F	1814 FROM (N)(S) SEC LINE 1218 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	590'	I	12/01/1990	03/01/1991	Unknown
Sth Rhoden	53-FG	1915 FROM (N)(S) SEC LINE 750 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	661'	O	11/20/2011	12/05/2011	Unknown

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Sth Rhoden	52-F	1972 FROM (N)(S) SEC LINE 1038 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	563'	I	04/18/1989	05/26/1989	Unknown
Sth Rhoden	55-G	2145 FROM (N)(S) SEC LINE 548 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	680'	O	06/13/1980	08/16/1980	Unknown
Sth Rhoden	54-G	2145 FROM (N)(S) SEC LINE 878 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	660'	O	04/07/1981	07/15/1981	Unknown
Sth Rhoden	50-K	3564 FROM (N)(S) SEC LINE 1953 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	578'	O	03/29/1989	06/30/1989	Unknown
Sth Rhoden	49-K	3564 FROM (N)(S) SEC LINE 2203 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	586'	O	04/19/1989	06/30/1989	Unknown
Sth Rhoden	53-B	495 FROM (N)(S) SEC LINE 920 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	618'	I	04/03/1989	05/26/1989	Unknown
Sth Rhoden	54-C	825 FROM (N)(S) SEC LINE 878 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	680'	O	06/07/1980	07/17/1980	Unknown
Sth Rhoden	55-C	825 FROM (N)(S) SEC LINE 548 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	680'	O	06/17/1980	09/04/1980	Unknown
Sth Rhoden	53-C	825 FROM (N)(S) SEC LINE 1123 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	614'	O	04/06/1989	06/30/1989	Unknown

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Sth Rhoden	55-CR	826 FROM (N)(S) SEC LINE 6016 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	602'	O	11/01/1990	01/25/1991	Unknown
Sth Rhoden	52-G	2145 FROM (N)(S) SEC LINE 1028 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	660'	O	04/08/1981	05/03/1981	Unknown
Sth Rhoden	53-G	2145 FROM (N)(S) SEC LINE 1208 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	640'	O	03/30/1981	05/04/1981	Unknown
Sth Rhoden	54-GH	2320 FROM (N)(S) SEC LINE 990 FROM (E)(W) SEC LINE SEC. 33 T. 47 N.R. 33W	Colt Energy	U	U	U	U	Unknown
		FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE SEC. T. N.R.						
		FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE SEC. T. N.R.						
		FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE SEC. T. N.R.						
		FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE SEC. T. N.R.						
		FROM (N)(S) SEC LINE FROM (E)(W) SEC LINE SEC. T. N.R.						

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Benjamin	KR-3	2805 FROM (N)(S) SEC LINE 1815 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	750'	O	11/08/2012	Not complete	718' of 2 7/8" casing cemented to surface
Benjamin	KR-4	2805 FROM (N)(S) SEC LINE 1485 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	11/15/2012		696' of 2 7/8" casing cemented to surface
Benjamin	KR-5	2805 FROM (N)(S) SEC LINE 1155 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	11/21/2012		688' of 2 7/8" casing cemented to surface
Benjamin	KR-8	3135 FROM (N)(S) SEC LINE 1815 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	705'	O	11/14/2012		686' of 2 7/8" casing cemented to surface
Benjamin	KR-9	3135 FROM (N)(S) SEC LINE 1485 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/15/2012		693' of 2 7/8" casing cemented to surface
Benjamin	KR-12	3465 FROM (N)(S) SEC LINE 2145 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	682'	O	11/16/2012		653' of 2 7/8" casing cemented to surface
Benjamin	KR-13	3465 FROM (N)(S) SEC LINE 1815 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	705'	O	11/13/2012		683' of 2 7/8" casing cemented to surface
Benjamin	KR-14	3465 FROM (N)(S) SEC LINE 1485 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/21/2012		691' of 2 7/8" casing cemented to surface
Benjamin	KR-15	3465 FROM (N)(S) SEC LINE 1155 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	705'	O	11/27/2012		689' of 2 7/8" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Benjamin	KR-17	3795 FROM (N)(S) SEC LINE 2145 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/19/2012	Not complete	690' of 2 7/8" casing cemented to surface
Benjamin	KR-18	3795 FROM (N)(S) SEC LINE 1815 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	705'	O	11/12/2012	12/13/2012	688' of 2 7/8" casing cemented to surface
Benjamin	KR-19	3795 FROM (N)(S) SEC LINE 1485 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	11/27/2012	Not complete	690' of 2 7/8" casing cemented to surface
Benjamin	KR-22	4125 FROM (N)(S) SEC LINE 2145 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	11/20/2012	Not complete	691' of 2 7/8" casing cemented to surface
Benjamin	KR-24	4125 FROM (N)(S) SEC LINE 1485 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	11/28/2012	12/13/2012	690' of 2 7/8" casing cemented to surface
Benjamin	KR-31	4785 FROM (N)(S) SEC LINE 2475 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/30/2012	Not complete	687' of 2 7/8" casing cemented to surface
Benjamin	KR-32	4785 FROM (N)(S) SEC LINE 2145 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/28/2012	↓	685' of 2 7/8" casing cemented to surface
Benjamin	KR-33	4785 FROM (N)(S) SEC LINE 1815 FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	11/29/2012	↓	683' of 2 7/8" casing cemented to surface
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Benjamin	KR-10	3135' FROM (N)(S) SEC LINE 1155' FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	12/03/2012	Not Complete	690' of 2 7/8" casing cemented to surface
Benjamin	KR-20	3195' FROM (N)(S) SEC LINE 1155' FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	12/03/2012		694' of 2 7/8" casing cemented to surface
Benjamin	KR-26	4455' FROM (N)(S) SEC LINE 2475' FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	12/04/2012		689' of 2 7/8" casing cemented to surface
Benjamin	KR-27	4455' FROM (N)(S) SEC LINE 2145' FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	715'	O	12/05/2012		691' of 2 7/8" casing cemented to surface
Benjamin	KR-29	4455' FROM (N)(S) SEC LINE 1485' FROM (E)(W) SEC LINE SEC. 9 T. 46 N.R. 33W	S&B	700'	O	12/04/2012		687' of 2 7/8" casing cemented to surface
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Walton	2-W	330' FROM (N)(S) SEC LINE 2679' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	12/02/1980	U	603' of 2 7/8" casing cemented to surface
Walton	3-W	330' FROM (N)(S) SEC LINE 2362' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	12/10/1980	U	606' of 2 7/8" casing cemented to surface
Walton	4-W	4000' FROM (N)(S) SEC LINE 4283' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	10/01/1992	12/14/1992	588' of 2 7/8" casing cemented to surface
Walton	5-W	4201' FROM (N)(S) SEC LINE 4200' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	02/24/1982	U	592' of 2 7/8" casing cemented to surface
Walton	6-W	1555' FROM (N)(S) SEC LINE 2330' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	09/21/1977	04/25/1978	573' of 2 7/8" casing cemented to surface
Walton	8-W	1580' FROM (N)(S) SEC LINE 1595' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	I	U 9/1977	U	590' of 2 7/8" casing cemented to surface
Walton	21-W	330' FROM (N)(S) SEC LINE 2043' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	08/29/1988	U	604' of 2 7/8" casing cemented to surface
Walton	22-W	1413' FROM (N)(S) SEC LINE 1775' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	09/01/1988	U	615' of 2 7/8" casing cemented to surface
Walton	23-W	1648' FROM (N)(S) SEC LINE 2679' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	I	09/06/1988	U	607' of 2 7/8" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Walton	27-W	1860' FROM (N)(S) SEC LINE 2685' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	610'	I	10/09/1992	12/14/1992	593' of 2 7/8" casing cemented to surface
Walton	42-W	1520' FROM (N)(S) SEC LINE 2763' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	I	10/07/1992	12/14/1992	585' of 2 7/8" casing cemented to surface
Walton	3	837' FROM (N)(S) SEC LINE 2584' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	625'	O	10/06/1992	10/07/1992	611' of 2 7/8" casing cemented to surface
Walton	5	1020' FROM (N)(S) SEC LINE 2097' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	6	1162' FROM (N)(S) SEC LINE 2399' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	7	1137' FROM (N)(S) SEC LINE 2637' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	8	1977' FROM (N)(S) SEC LINE 2109' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	9	847' FROM (N)(S) SEC LINE 2341' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	10	1930' FROM (N)(S) SEC LINE 2567' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Walton	11	1406' FROM (N)(S) SEC LINE 2445' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	12	2044' FROM (N)(S) SEC LINE 2524' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	13	1658' FROM (N)(S) SEC LINE 2559' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	625'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	14	1414' FROM (N)(S) SEC LINE 2174' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	15	1732' FROM (N)(S) SEC LINE 2566' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	16	1347' FROM (N)(S) SEC LINE 2620' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	17	1272' FROM (N)(S) SEC LINE 2675' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	18	1266' FROM (N)(S) SEC LINE 2331' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	19	1742' FROM (N)(S) SEC LINE 2314' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Walton	20	2229' FROM (N)(S) SEC LINE 2363' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	550'	O	01/21/1976	U	535' of 4 1/2" casing cemented to surface
Walton	22	1413' FROM (N)(S) SEC LINE 1775' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	594'	O	08/18/1976	U	570' of 4 1/2" casing cemented to surface
Walton	23	1698' FROM (N)(S) SEC LINE 2670' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	U	U	590' of 2 7/8" casing cemented to surface
Walton	24	165' FROM (N)(S) SEC LINE 1480' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	01/06/1981	U	610' of 2 7/8" casing cemented to surface
Walton	25	165' FROM (N)(S) SEC LINE 1810' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	11/14/1980	U	610' of 2 7/8" casing cemented to surface
Walton	26	165' FROM (N)(S) SEC LINE 2146' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	10/21/1980	U	600' of 2 7/8" casing cemented to surface
Walton	27	495' FROM (N)(S) SEC LINE 2571' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	01/28/1983	02/04/1983	599' of 2 7/8" casing cemented to surface
Walton	28	495' FROM (N)(S) SEC LINE 2521' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	02/04/1983	02/09/1983	600' of 2 7/8" casing cemented to surface
Walton	29	495' FROM (N)(S) SEC LINE 2140' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	608'	O	09/28/1977	U	596' of 4 1/2" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Walton	31	1216' FROM (N)(S) SEC LINE 1517' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	590'	O	01/08/1981	U	502' of 2 7/8" casing cemented to surface
Walton	32	1258' FROM (N)(S) SEC LINE 1547' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	600'	O	02/16/1982	U	588' of 2 7/8" casing cemented to surface
Walton	37	2221' FROM (N)(S) SEC LINE 1518' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	595'	O	03/01/1982	U	595' of 2 7/8" casing cemented to surface
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
McLaughlin	0-K	1000 FROM (N)(S) SEC LINE 2333 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	07/18/1983	08/03/1983	597' of 4 1/2" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	1-C	1136 FROM (N)(S) SEC LINE 1819 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/01/1982	01/15/1983	608' of 2 7/8" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	1-E	1122 FROM (N)(S) SEC LINE 2416 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	660'	O	04/18/1983	04/26/1983	621' of 4 1/2" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	1-G	1107 FROM (N)(S) SEC LINE 2414 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/02/1982	1983	611' of 4 1/2" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	1-J	1327 FROM (N)(S) SEC LINE 2507 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	633'	O	09/27/1982	10/22/1982	608' of 4 1/2" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	1-L	1336 FROM (N)(S) SEC LINE 2173 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	07/13/1983	08/03/1983	604' of 4 1/2" casing cemented to surface, 1 1/2" insert pump, 5' barrel
McLaughlin	2-M	1010 FROM (N)(S) SEC LINE 3235 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	592'	O	10/21/1991	03/17/1992	549' of 2 7/8" casing cemented to surface, 1 1/2" insert pump
McLaughlin	2-K	1576 FROM (N)(S) SEC LINE 2361 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	629'	I	01/02/1985	U	611' of 2 7/8" casing cemented to surface, 1/2" pump
McLaughlin	3-E	1725 FROM (N)(S) SEC LINE 2095 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	635'	O	09/22/1982	U	623' of 4 1/2" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
McLaughlin	3-G	1780 FROM (N)(S) SEC LINE 2340 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	U	U	600' of 4 1/2" casing cemented to surface
McLaughlin	3-J	1884 FROM (N)(S) SEC LINE 2509 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	620'	O	06/08/1982	U	589' of 2 7/8" casing cemented to surface
McLaughlin	3-L	1911 FROM (N)(S) SEC LINE 2210 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	610'	O	12/17/1984	U	576' of 2 7/8" casing cemented to surface
McLaughlin	4-K	2184 FROM (N)(S) SEC LINE 2362 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	580'	I	06/01/1982	U	576' of 2 7/8" casing cemented to surface
McLaughlin	5-J	2473 FROM (N)(S) SEC LINE 2578 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	546'	O	01/05/1982	02/15/1982	534' of 4 1/2" casing cemented to surface, 1" insert pump
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Beary	A-52	1165' FROM (N)(S) SEC LINE 1872' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	642'	O	01/08/1981	02/17/1981	628' of 4 1/2" casing cemented to surface
Beary	A-54	1165' FROM (N)(S) SEC LINE 1652' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	01/06/1981	02/27/1981	630' of 4 1/2" casing cemented to surface
Beary	A-56	1165' FROM (N)(S) SEC LINE 1432' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/08/1980	01/21/1981	626' of 4 1/2" casing cemented to surface
Beary	A-58	1165' FROM (N)(S) SEC LINE 1212' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/02/1980	02/27/1981	630' of 4 1/2" casing cemented to surface
Beary	B-53	356' FROM (N)(S) SEC LINE 1762' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	650'	I	U	U	2 7/8" casing cemented to surface
Beary	B-55	356' FROM (N)(S) SEC LINE 1542' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	12/19/1980	U	629' of 4 1/2" casing cemented to surface
Beary	B-57	358' FROM (N)(S) SEC LINE 1322' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	12/15/1980	02/17/1981	628' of 4 1/2" casing cemented to surface
Beary	C-52	546' FROM (N)(S) SEC LINE 1872' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	01/14/1981	02/27/1981	628' of 4 1/2" casing cemented to surface
Beary	C-54	546' FROM (N)(S) SEC LINE 1640' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	520'	O	01/29/1981	02/26/1981	463' of 4 1/2" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Beary	C-56	549' FROM (N)(S) SEC LINE 1432 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/15/1980	01/27/1981	629' of 4 1/2" casing cemented to surface
Beary	C-58	549' FROM (N)(S) SEC LINE 1212' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/16/1980	01/27/1981	629' of 4 1/2" casing cemented to surface
Beary	D-53	738' FROM (N)(S) SEC LINE 1762' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	01/22/1981	02/27/1981	628' of 4 1/2" casing cemented to surface
Beary	D-55	737' FROM (N)(S) SEC LINE 1542' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	01/09/1981	01/27/1981	628' of 4 1/2" casing cemented to surface
Beary	D-57	742' FROM (N)(S) SEC LINE 1322' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	01/13/1981	02/26/1981	628' of 4 1/2" casing cemented to surface
Beary	D-59	742' FROM (N)(S) SEC LINE 1062' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	11/03/1981	11/04/1981	635' of 4 1/2" casing cemented to surface
Beary	E-52	928' FROM (N)(S) SEC LINE 1672' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	641'	O	01/22/1981	02/27/1981	628' of 4 1/2" casing cemented to surface
Beary	E-54	931' FROM (N)(S) SEC LINE 1652 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	01/19/1981	01/21/1981	629' of 4 1/2" casing cemented to surface
Beary	E-56	934' FROM (N)(S) SEC LINE 1432' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	657'	O	12/18/1980	01/21/1981	630' of 4 1/2" casing cemented to surface

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Beary	E-58	934' FROM (N)(S) SEC LINE 1727' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	O	12/18/1980	01/21/1981	627' of 4 1/2" casing cemented to surface
Beary	F-53	1077' FROM (N)(S) SEC LINE 1700' FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	960'	U	01/08/1981	03/01/1981	959' of 4 1/2" casing cemented to surface - water disposal well
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Asjes	A-4	165 FROM (N)(S) SEC LINE 882 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	623'	O	08/26/1980	09/12/1980	613' of 4 1/2" casing cemented to surface
Asjes	A-6	165 FROM (N)(S) SEC LINE 714 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	602'	O	05/04/1981	09/05/1981	603' of 2 7/8" casing cemented to surface
Asjes	A-8	165 FROM (N)(S) SEC LINE 502 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	603'	O	05/07/1981	05/27/1981	603' of 2 7/8" casing cemented to surface
Asjes	A-10	165 FROM (N)(S) SEC LINE 336 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	604'	O	05/11/1981	06/01/1981	603' of 2 7/8" casing cemented to surface
Asjes	A-12	165 FROM (N)(S) SEC LINE 110 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	601'	O	09/16/1981	09/29/1981	603' of 2 7/8" casing cemented to surface
Asjes	B-3	356 FROM (N)(S) SEC LINE 1012 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	640'	I	11/05/1981	U	637' of 2 7/8" casing cemented to surface
Asjes	B-5	356 FROM (N)(S) SEC LINE 724 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	637'	I	05/06/1981	08/18/1981	636.5' of 2 7/8" casing cemented to surface
Asjes	B-9	356 FROM (N)(S) SEC LINE 412 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	603'	I	05/13/1981	05/27/1981	605' of 2 7/8" casing cemented to surface
Asjes	B-11	356 FROM (N)(S) SEC LINE 207 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	650'	I	08/27/1981	09/05/1981	604' of 2 7/8" casing cemented to surface

MO 780-1136 (02-11)

AREA OF REVIEW WELLS (1/2 MILE RADIUS AROUND WELL) THAT PENETRATE THE INJECTION INTERVAL

INSTRUCTIONS

In the grid below, place the descriptions of area of review wells (1/2 mile radius around well) of public record that penetrate the proposed injection zone. Complete the following: lease name, well number, location, owner, depth in feet, type of well (Oil = O, Gas = G, Water = W, Injection = I, Strat Test = S, Unknown = U, Other - specify), date spudded, date completed, and construction of the well. Give a brief but accurate description of the well's construction including all plugging and/or completion of information, detailing the cement, casing, and subsurface casing information.

LEASE	WELL NO.	LOCATION	OWNER	DEPTH	TYPE	DATE SPUDDED	DATE COMPLETED	CONSTRUCTION
Asjes	C-4	547 FROM (N)(S) SEC LINE 882 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	639'	O	11/06/1981	12/06/1981	640' of 2 7/8" casing cemented to surface
Asjes	C-6	547 FROM (N)(S) SEC LINE 559 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	634'	O	07/07/1981	09/03/1981	636.5' of 2 7/8" casing cemented to surface
Asjes	C-8	547 FROM (N)(S) SEC LINE 318 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	670'	O	07/03/1981	01/02/1982	660' of 2 7/8" casing cemented to surface
Asjes	C-10	547 FROM (N)(S) SEC LINE 159 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	636'	O	09/08/1981	11/14/1981	636.5' of 2 7/8" casing cemented to surface
Asjes	E-4	812 FROM (N)(S) SEC LINE 882 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	629'	O	11/24/1981	11/28/1981	640' of 2 7/8" casing cemented to surface
Asjes	G-2	1307 FROM (N)(S) SEC LINE 1188 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	669'	O	11/11/1981	11/14/1981	670' of 2 7/8" casing cemented to surface
Asjes	G-4	1303 FROM (N)(S) SEC LINE 972 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	666'	O	11/24/1981	12/09/1981	670' of 2 7/8" casing cemented to surface
Asjes	G-8	1269 FROM (N)(S) SEC LINE 541 FROM (E)(W) SEC LINE SEC. 4 T. 46 N.R. 33W	K.R.E.D.	633'	O	07/04/1981	09/03/1981	603' of 2 7/8" casing cemented to surface
		____ FROM (N)(S) SEC LINE ____ FROM (E)(W) SEC LINE SEC. ____ T. ____ N.R. ____						

MO 780-1136 (02-11)

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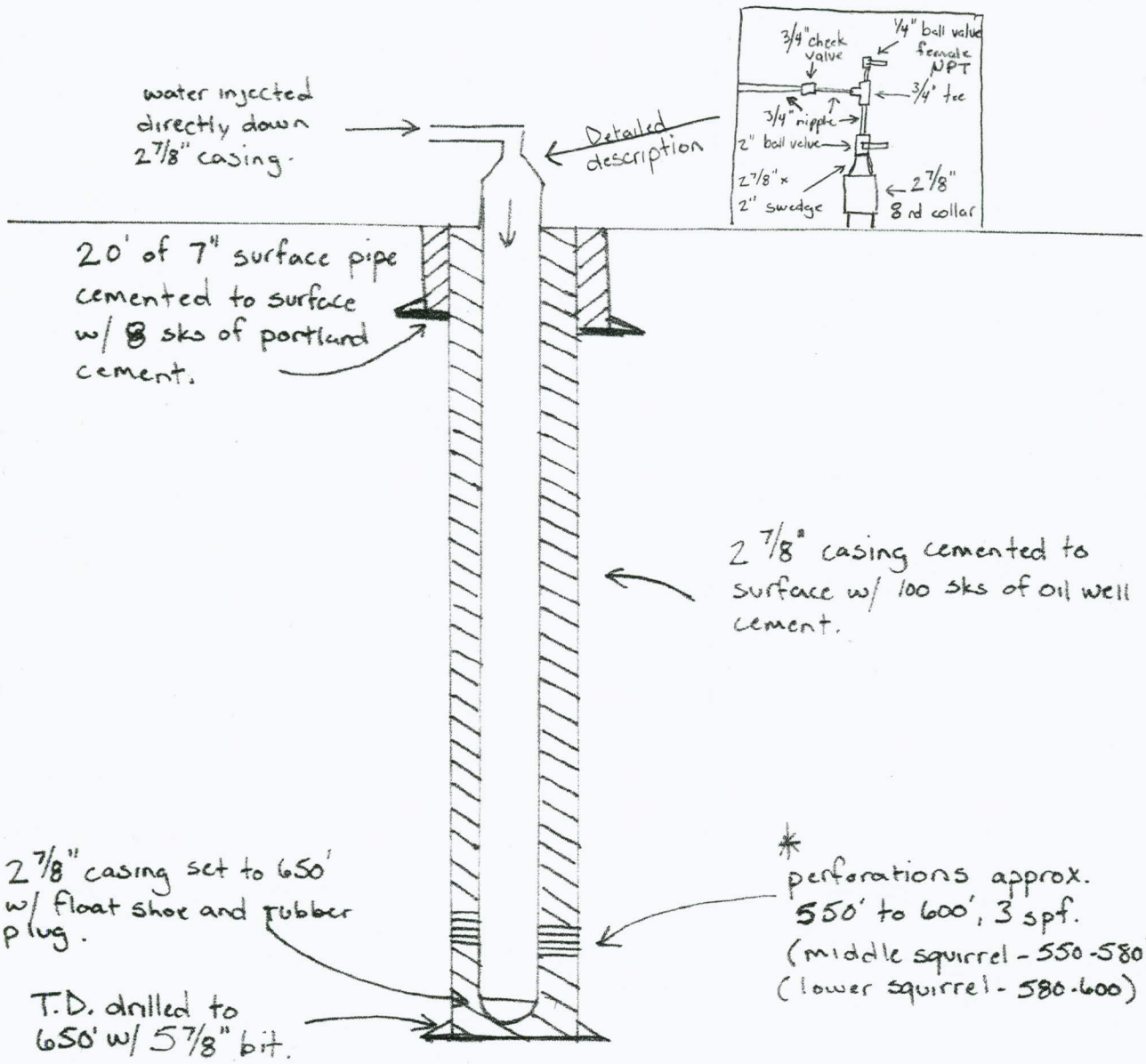
Mo Oil & Gas Council

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

INJECTION WELL SCHEMATIC

OGC-11

COUNTY	PERMIT NUMBER	OPERATOR	WELL NUMBER
Cass	21293	Kansas Resource Exploration & Development LLC	Walton KRI 20-3



* Middle and lower squirrel sections confined by shale & limestone

INSTRUCTIONS ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL, INCUDING THE FOLLOWING: CONFIGURATION OF WELLHEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES, LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TUBING, SIZE AND GRADE OF ALL CASING AND TUBING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SQUEEZE JOBS, AND GEOLOGIC NAME AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET.

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO BOX 250, ROLLA, MO 65402 (573) 368-2143.
ONE (1) COPY WILL BE RETURNED

Well Schematic, Continued

The surface casing is 7" in diameter and is new, limited service grade pipe. The 7" is drifted and tested to 7,000 lbs. and weighs 14 lbs. per foot. The surface casing will be set to a minimum depth of 20 feet and extend 6 inches above the surface. Approximately 8 sacks of Portland cement will be circulated to surface and will secure the well and ensure the contents of the well bore is sealed off from sources of drinking water. The production casing is used 2 7/8" EUE upset, drifted and tested to 7,000 lbs and weighs 6.5 lbs. per foot. No tubing will be ran in the injection wells, the injection fluid will be injected directly down the 2 7/8" casing. The total depth of the well will be approximately 650 feet drilled with a 5 7/8" bit. A 2 7/8" flapper type float shoe will be set at the base of the 2 7/8" casing pipe with centralizers installed to center the casing inside the well bore for better cement bonding. The 2 7/8" casing will be cemented from 650 feet to surface using a 2 7/8" rubber plug for displacing the cement. Approximately 100 sacks of high-grade Oil Well cement will be used to cement all wells. This cement will ensure that no contents of the pipe will extend past the well bore. The top of the 2 7/8" casing will extend approximately one foot above ground level. After the cement has cured and effectively bonded to the 2 7/8" casing, perforations will be made in the Squirrel Sandstone formation from approximately 550-600 feet, depending on where the oil sand is present at this particular location. Wells will be shot with 3 perforations per foot where the squirrel sandstone oil reservoir is present and capable of water injection. No water sources are present at this depth and will not be affected by these perforations or the injection. The relevant sources of drinking water are located less than 20 feet below surface. The 7" surface pipe and durable Portland cement ensures these water sources will remain free from contamination from drilling and injection activity. Other sources of potential usable water may be present, however not always potable, in the Pennsylvanian and Mississippian formations located approximately 150 feet or deeper below the base of the Squirrel Sandstone.

The lithology of all formations penetrated by the wellbore are as follows:

Formation	Total Depth (feet)
Soil	0 – 2
Clay	2 – 4
Lime	4 – 16
Shale	16 – 42
Lime	42 – 54
Shale	54 – 64
Lime	64 – 83
Shale	83 – 113

Lime	113 – 116
Shale	116 – 142
Lime	142 – 173
Shale	173 – 183 (Slate 180 - 182)
Lime	183 – 203
Shale	203 - 205 (Slate 203 - 205)
Lime	205 - 208
Shale	208 – 211
Lime	211 – 217 (Top Pawnee Limestone)
Shale	217 - 399
Lime	399 – 403 (Base Pawnee Limestone)
Shale	403 - 419 (Labette Shale)
Lime	419 - 421
Shale	421 - 438 (Top Fort Scott)
Lime	438 - 442 (Blackjack Creek Limestone)
Shale	442 - 556 (Summit Coal) (Base Fort Scott)
Lime	556 - 557
Shale	557 - 562
Oil Sand	562 - 592 (Squirrel Sandstone)
Shale	592 - 593 (Top Verdigris)
Lime	593 - 594 (Ardmore Limestone)
Shale	594 - 700 (Oakley Shale)

AFFIDAVIT OF PUBLICATION

(Space above for recording information)

STATE OF MISSOURI
COUNTY OF CASS ss.

I, Janis Anslinger, being duly sworn according to law, state that I am the Classified Ad Manager of the Cass County Democrat-Missourian, a weekly newspaper of general circulation in the County of Cass, State of Missouri, where located; which newspaper has been admitted to the Post Office as periodical class matter in the City of Harrisonville, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bonafide subscribers, voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri 2000, and Section 59.310, Revised Statutes of Missouri 2000. The affixed notice appeared in said newspaper in the following consecutive issues:

1st Insertion: Vol. 133 No. 22, 15 day of Mar 20 13.

2nd Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

3rd Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

4th Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

5th Insertion: Vol. _____ No. _____, _____ day of _____ 20____.

Janis Anslinger
Janis Anslinger, Classified Ad Manager

Subscribed and sworn to before me on this 15 day of March, 20 13

Julie M. Hicks

JULIE M. HICKS
Notary Public, Notary Seal
State of Missouri
Cass County
Commission # 09727108
My Commission Expires June 12, 2013

B 5/2/13

Kansas Resource Exploration & Development, LLC, 9393 W 110th St., Ste. 500, Overland Park, KS, 66210 has applied for 56 injection well permits to be drilled to an approximate depth of 650 feet. Saltwater will be injected into the Squirrel Sandstone formation for an Enhanced Oil Recovery Project at the following locations.

#KRI 3-1 2,970' from S line/2,970' from E line, Section 4, Township 46N, Range 33W
#KRI 3-2 2,964' from S line/2,963' from E line, Section 4, Township 46N, Range 33W.
#KRI 3-3 2,964' from S line/2,977' from E line, Section 4, Township 46N, Range 33W
#KRI 4-1 2,970' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 4-2 2,964' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 4-3 2,964' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 5-1 2,970' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 5-2 2,964' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 5-3 2,964' from S line/2,317' from E line, Section 4, Township 46N, Range 33W
#KRI 6-1 2,970' from S line/1,980' from E line, Section 4, Township 46N, Range 33W
#KRI 6-2 2,964' from S line/1,987' from E line, Section 4, Township 46N, Range 33W
#KRI 6-3 2,964' from S line/1,987' from E line, Section 4, Township 46N, Range 33W
#KRI 9-1 3,300' from S line/2,970' from E line, Section 4, Township 46N, Range 33W
#KRI 9-2 3,294' from S line/2,963' from E line, Section 4, Township 46N, Range 33W
#KRI 10-1 3,300' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 10-2 3,294' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 10-3 3,294' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 11-1 3,300' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 11-2 3,294' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 11-3 3,294' from S line/2,317' from E line, Section 4, Township 46N, Range 33W
#KRI 12-1 3,300' from S line/1,980' from E line, Section 4, Township 46N, Range 33W
#KRI 12-2 3,294' from S line/1,973' from E line, Section 4, Township 46N, Range 33W
#KRI 12-3 3,294' from S line/1,987' from E line, Section 4, Township 46N, Range 33W
#KRI 13-1 3,300' from S line/1,650' from E line, Section 4, Township 46N, Range 33W
#KRI 13-2 3,294' from S line/1,643' from E line, Section 4, Township 46N, Range 33W
#KRI 14-1 3,630' from S line/2,970' from E line, Section 4, Township 46N, Range 33W
#KRI 14-2 3,624' from S line/2,963' from E line, Section 4, Township 46N, Range 33W
#KRI 15-1 3,630' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 15-2 3,624' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 15-3 3,624' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 16-1 3,630' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 16-2 3,624' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 16-3 3,624' from S line/2,317' from E line, Section 4, Township 46N, Range 33W
#KRI 17-1 3,630' from S line/1,980' from E line, Section 4, Township 46N, Range 33W
#KRI 17-2 3,624' from S line/1,973' from E line, Section 4, Township 46N, Range 33W
#KRI 17-3 3,624' from S line/1,987' from E line, Section 4, Township 46N, Range 33W
#KRI 18-1 3,630' from S line/1,650' from E line, Section 4, Township 46N, Range 33W
#KRI 18-2 3,624' from S line/1,643' from E line, Section 4, Township 46N, Range 33W
#KRI 19-1 3,930' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 19-2 3,954' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 19-3 3,954' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 20-1 3,960' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 20-2 3,954' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 20-3 3,954' from S line/2,317' from E line, Section 4, Township 46N, Range 33W
#KRI 21-1 4,290' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 21-2 4,284' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 21-3 4,284' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 22-1 4,290' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 22-2 4,284' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 22-3 4,284' from S line/2,317' from E line, Section 4, Township 46N, Range 33W
#KRI 23-1 4,620' from S line/2,640' from E line, Section 4, Township 46N, Range 33W
#KRI 23-2 4,614' from S line/2,633' from E line, Section 4, Township 46N, Range 33W
#KRI 23-3 4,614' from S line/2,647' from E line, Section 4, Township 46N, Range 33W
#KRI 24-1 4,620' from S line/2,310' from E line, Section 4, Township 46N, Range 33W
#KRI 24-2 4,614' from S line/2,303' from E line, Section 4, Township 46N, Range 33W
#KRI 24-3 4,614' from S line/2,317' from E line, Section 4, Township 46N, Range 33W

Written comments or requests for additional information regarding such wells should be directed within fifteen (15) days of this notice to the address below.

State Geologist
Missouri Oil & Gas Council
P.O. Box 250
Rolla, MO 65401

22-1tc

MISSOURI
Mechanical Integrity Test

RECEIVED
AUG 22 2013
Mo Oil & Gas Council

Test Date: 8/13/2013

Operator: Kansas Resources Exploration & Development, LLC
Address: 9393 W. 110th St. Ste. 500
Overland Park, Kansas 66210
Contact: Brad Kramer
Phone: 913-669-2253

Lease: Walton *Well No.:* KRI-20-3
County: Cass *Permit No.:* 037-21293

TEST INFORMATION

Pressure [X] Radioactive Tracer Survey [ ] Temperature Survey [ ]

	Run #1	Run #2	Run #3	Run #4
Start Time:	7:20			
End Time:	7:50			
Length of Test:	30min			
Initial Pressure (PSI):	740			
Ending Pressure (PSI):	740			
Pressure Change:	0			

Fluid Used For Test (water, nitrogen, CO2, etc.): Air

Perforations: Well Not Perfed Yet

Comments: X .433 =
Pressured Casing up to 740 "

The bottom of the tested zone is shut in with Rubber Plug at a depth of 673.25 feet.
In signing the form below, it is certified that the above indicated well was tested for mechanical integrity on the test date shown above.

Signature David Nelson
Operator, Contact Person or Approved Agent

Contractor
Title

FOR INTERNAL USE ONLY

Results were: Satisfactory____ Not Satisfactory____ Computer Update: ____
Remarks: ____
State Agent: ____ Witnessed: Yes____ No____
!! FILE WITH PERMIT !!