

12/7/17 * Permit Number Assigned to Application
2017-12-28 08:29:53

18-CONS-3255-CUIC

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Kansas Corporation Commission Form U-1
November 2011

/s/ Lynn M. Retz

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

APPLICATION FOR INJECTION WELL

Disposal ☐

Enhanced Recovery: ☐ Repressuring

☒ Waterflood

☐ Tertiary

Date: September 18 2017

Operator License Number: 5682 Exp. 06/30/18

Operator: Hughes Drilling Co. a General Partnership

Address: 122 Main

Wellsville, KS 66092

cc: Lesli Baker

Contact Person: Clay Hughes Roger A. Hughes

Phone: 785-883-2235

Email: NA

* Permit Number: Pending NEW E-32,585 3-JK

API Number: 15-059-27153-00-00

Well Location

- SE - SE - SW Sec. 2 Twp. 16 S. R. 20 ☒ E ☐ W

458 feet from ☐ N / ☒ S Line of Section

3088 feet from ☒ E / ☐ W Line of Section

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

Lease Description: SW/4 of the Sec.2 Twp.16S R.20E

Lease Name: W. Broers Well Number: I-1

Field Name: Leloup

County: Franklin

Deepest Usable Water

Formation: Squirrel

Depth to Bottom of Formation:

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Check One: ☐ Old Well Being Converted ☒ Newly Drilled Well ☐ Well to be Drilled

Surface Elevation: feet Well Total Depth: 775 feet Plug Back Depth: feet

Datum of top of injection formation: feet (reference mean sea level)

Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Squirrel	725 / 730	perf	725 to 730 feet
	/	at	to feet

List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:

(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. Hughes Drilling	W. Broers Lease	Sec.2 Twp.16 R.20E	See Attached
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. Squirrel	to feet	mg/l
2.	to feet	mg/l
3.	to feet	mg/l

Maximum Requested Liquid Injection Rate: 100 bbls / day; or

Maximum Requested Gas Injection Rate: scf / day. Type of Gas:

Maximum Requested Injection Pressure: 600 psig

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Paid \$350.00
CK 6215
9/28/17

Well CompletionType: ☐ Tubing & Packer ☐ Packerless ☐ Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		6 1/4		2 7/8	
Setting Depth		27		765	
Amount of Cement		12		101	
Top of Cement		0		0	
Bottom of Cement		27		101	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at _____ feet, cemented to _____ feet with _____ sx.

Tubing: Type _____ Grade _____

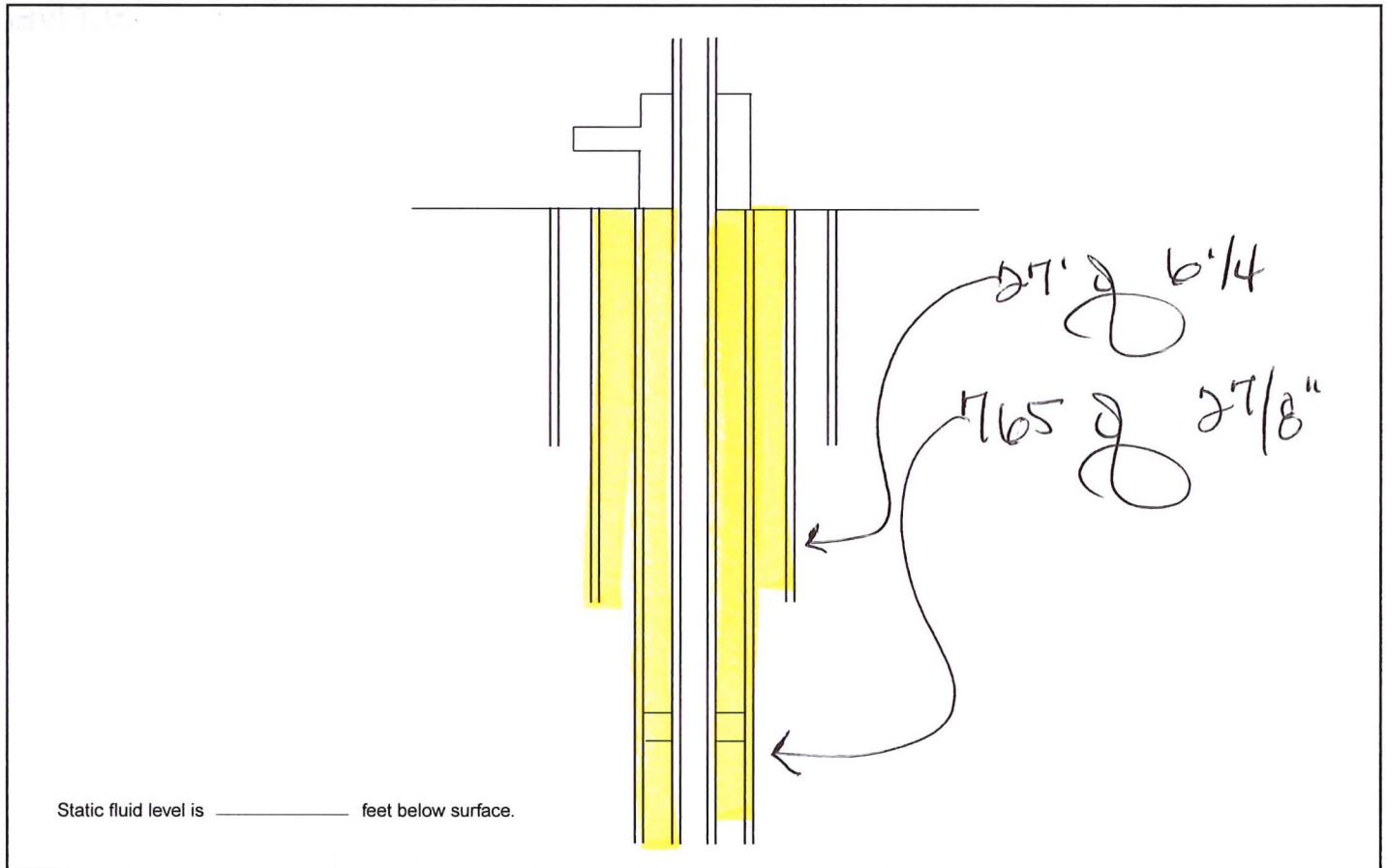
Packer: Type _____ Depth _____

Annulus Corrosion Inhibitor: Type _____ Concentration _____

List Logs Enclosed: _____

Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)



Well Inventory According to the KCC
Hughes Drilling Co, a General Partnership

Lease Name	Well No.	API Number	Year Drilled	Year Assumed R Depth	County	Sec	Twp	Rge	Dir	Q4	Q3	Q2	Q1	Feet N-S	N-S	Feet E-W	E-W	Well	Well	Oil Lease	Gas Lease	Latitude	Longitude	Datum
BROERS	1	15-059-23895-0000			780 Franklin	2	16	20	E		SE	SE	SW	165 S		2830 E		OIL	PR			123745		
BROERS	2	15-059-23900-0000			789 Franklin	2	16	20	E		SE	SE	SW	166 S		3230 E		OIL	PR			123745		
BROERS	3	15-059-23905-0000			771 Franklin	2	16	20	E		NE	SE	SW	995 S		2830 E		OIL	PR			123745		
BROERS	4	15-059-23908-0000			767 Franklin	2	16	20	E		SE	NE	SW	1365 S		2830 E		OIL	PR			123745		
BROERS	5	15-059-24227-0000	1987		770 Franklin	2	16	20	E		SW	NE	SW	1400 S		3320 E		OIL	PR			123745		
BROERS	6	15-059-24228-0000	1987		779 Franklin	2	16	20	E		NW	SE	SW	1030 S		3320 E		OIL	PR			123745		
BROERS	7	15-059-24275-0000	1987		886 Franklin	2	16	20	E		NE	SE	SE	1230 S		360 E		OIL	PR			123745		
BROERS	8	15-059-24276-0000			700 Franklin	2	16	20	E		SE	NE	SE	1790 S		360 E		OIL	PR			123745		
BROERS	9	15-059-24285-0000	1987		786 Franklin	2	16	20	E		NW	SW	SW	795 S		5205 E		OIL	PR			123745		
W. BROERS	10	15-059-26798-0000	2014		740 Franklin	2	16	20	E		NE	SW	NE	SW	1885 S		3320 E		OIL	PR				
W. BROERS	13	15-059-26801-0000	2014		730 Franklin	2	16	20	E		NW	SW	NE	SW	1885 S		3720 E		OIL	PR				
W. BROERS	14	15-059-26802-0000	2014		800 Franklin	2	16	20	E		SW	SW	NE	SW	1485 S		3720 E		OIL	PR				
W. BROERS	15	15-059-26803-0000	2014		800 Franklin	2	16	20	E		NW	NW	SE	SW	1085 S		3720 E		OIL	PR				

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Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

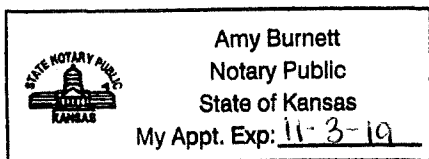
Name:

Legal Description of Leasehold:

See Attached

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017

Notary Public

My Commission Expires:

Amy Burnett

11-3-19

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Instructions:

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
2. Attach some type of log (*drillers log, electric log, etc.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (*if any*) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

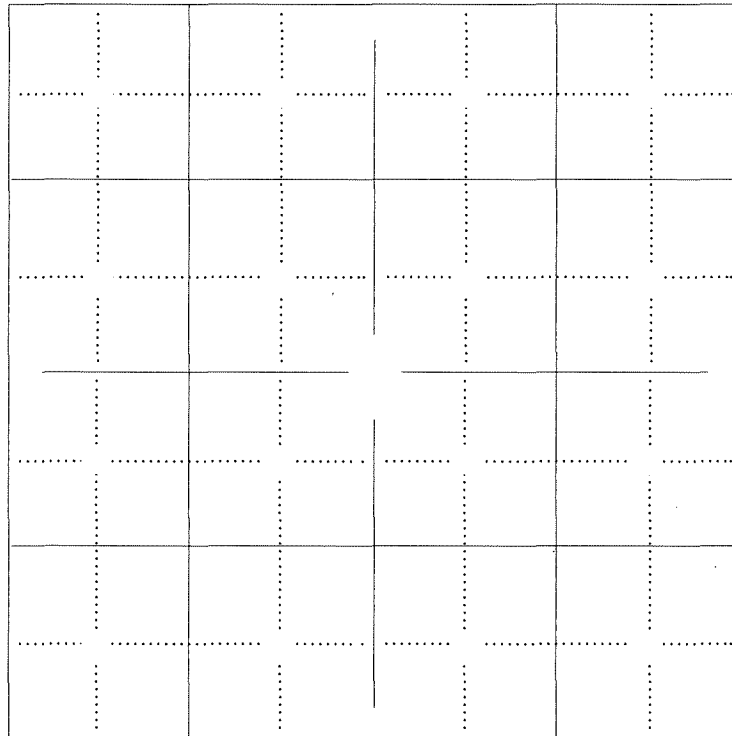
Plat and Certificate of Injection Well Location and Surrounding Acreages

Operator: Hughes Drilling Co, a Genral Partnership Location of Well: SE SE SW/4 of the Sec.2 Twp.16S R.20E
 Lease: W. Broers 458 feet from ☐ N / ☒ S Line of Section
 Well Number: I-1 3088 feet from ☒ E / ☐ W Line of Section
 County: Franklin Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

Plat

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.

See
Attached



applicant well

producing well

plugged injection well

D & A well

other injection well

temporary abandoned well

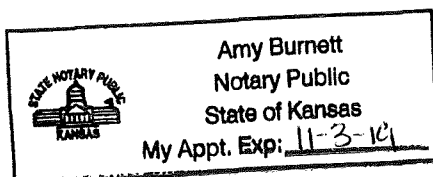
plugged producer

water supply well

The undersigned hereby certifies that he / she is a duly authorized agent for Hughes Drilling Co, and that all of the information shown herein is true, complete and correct to the best of his / her knowledge.

Jane Baker
Applicant or Duly Authorized Agent

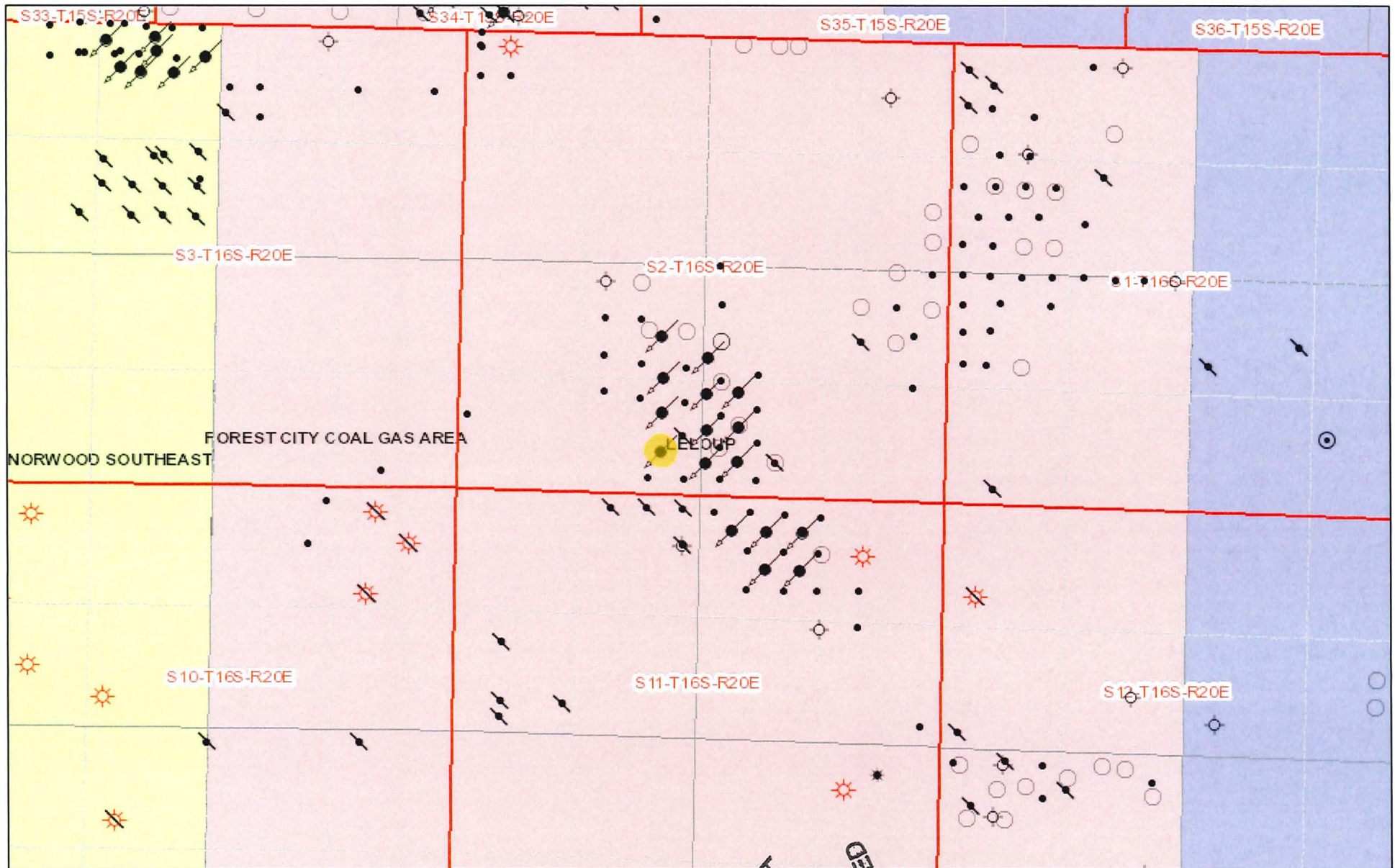
Subscribed and sworn before me this 26 day of September, 2017



Amy Burnett
Notary Public

My Commission Expires: 11-3-14

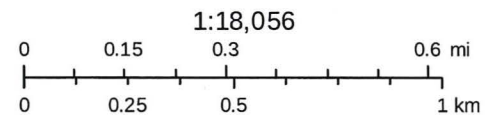
W. Broers Leas



September 19, 17

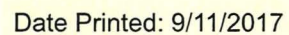
Painter Oil Co.

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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey

Kansas Geological Survey
http://www.kgs.ku.edu/



Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-1 Legal Location: SE SE SW/4 of the Sec.2 Twp.16S R.20E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26 of September,
2017, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name

Address (Attach additional sheets if necessary)

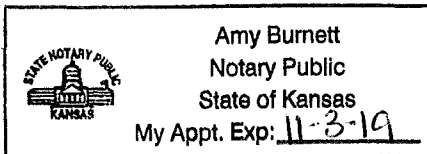
See Attached

KCC WICHITA
 SEP 28 2017
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I further attest that notice of the filing of this application was published in the Ottawa Herald, the official county publication
 of Franklin county. A copy of the affidavit of this publication is attached.

Signed this 26 day of September, 2017
[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 26 day of September, 2017



Notary Public

My Commission Expires:

11-3-19

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-2 Legal Location: NE SE SW/4 of the Sec.2 Twp.16S R.20E

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Address (Attach additional sheets if necessary)

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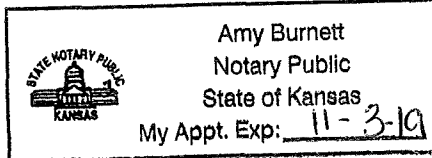
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[Signature]
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Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-3 Legal Location: NE SE SW/4 of the Sec.2 Twp.16S R.20E

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Name

Address (Attach additional sheets if necessary)

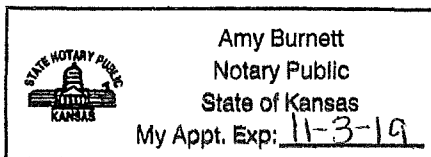
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Signed this 26 day of September, 2017
[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 26 day of September, 2017



Notary Public

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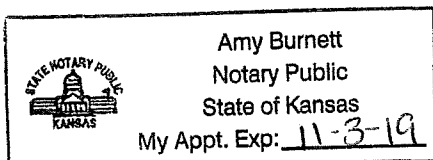
Affidavit of Notice ServedRe: Application for: Hughes Drilling Co, a General PartnershipWell Name: W. Broers I-4Legal Location: SE NE SW/4 of the Sec.2 Twp.16S R.20EThe undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26 of September,2017, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name

Address (Attach additional sheets if necessary)

See Attached

KCC WICHITA
SEP 28 2017
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of Franklin county. A copy of the affidavit of this publication is attached.Signed this 26 day of September, 2017[Signature]
Applicant or Duly Authorized AgentSubscribed and sworn to before me this 26 day of September, 2017Amy Burnett
Notary PublicMy Commission Expires: 11-3-19

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QuickRefID	OwnerPrope	PartyName	Address1	Address2	Address3	City	State	ZIP	TownshipSe	Township	TownshipRta	Property_1	LegalDescr	SitusAddre
R1274	FRA0033	BURDKOLL BROTHERS INC	3939 ELLIS RD			RANTOUL	KS	66079-9090	35	15	20E	030-027-35-0-00-00-004.00-0	S35, T15, R20E, ACRES 217.5, LT 4 & SW4 EXC SW4 S RR ROW LESS ROW	4365 OREGON RD, Wellsville, KS 66092
R1321	HAY0132D	LYNN, LANA S TRUST	PO BOX 283			GARDNER	KS	66030-0283	34	15	20E	030-028-34-0-00-00-001.04-0	S34, T15, R20E, ACRES 190.8, E2 SW4 & SE4 EXC NE4 SE4 LESS ROW	3641 SHAWNEE RD, Wellsville, KS 66092
R301869	FRA0165A2	DUE, ANITA M & DAVID L	4922 N GARFIELD AVE			KANSAS CITY	MO	64118-6135	11	16	20E	030-091-11-0-00-00-002.04-0	S11, T16, R20E, ACRES 69.1, TR BEG SW/C NW4 N310 E459.9 N473.6 W459.6 N352.7 E1725 N122.8 NWLY106.5 E986.7 S1345.4 W2651.4 TO POB LESS ROW	4037 OREGON RD, Ottawa, KS 66067
R306602	FGC0024B1	ROECKER, LEROY W JR & NICOLE M	216 LELOUP 3 ST			WELLSVILLE	KS	66092-8739	2	16	20E	030-091-02-0-10-02-003.02-0	FERGUSON (LELOUP), S02, T16, R20E, E20 LTS 11 & 18 BLK 33 & ADJ VAC ALLEY	218 3RD ST-LELOUP, Wellsville, KS 66092
R5754	FRA0157	BOUSE, ROBERT L & JANET K TRUST	3814 SHAWNEE RD			WELLSVILLE	KS	66092-8750	2	16	20E	030-091-02-0-00-00-001.00-0	S02, T16, R20E, ACRES 28.2, E1330 E2 NW4 N OF RR ROW & LT 3 EXC E114.5 N OF RR ROW LESS ROW	3814 SHAWNEE RD, Wellsville, KS 66092
R5755	FRA0158	SMITH, BONNIE MCCONNELL TRUST	173 E 1250 RD			BALDWIN CITY	KS	66006-7162	2	16	20E	030-091-02-0-00-00-002.00-0	S02, T16, R20E, ACRES 105, W2 NW4 & E2 NW4 EXC E1130 N OF RR ROW & SW4 N OF RR ROW & E2 NW4 S OF RR ROW	3730 SHAWNEE RD, Ottawa, KS 66067
R5756	FRA0158	SMITH, BONNIE MCCONNELL TRUST	173 E 1250 RD			BALDWIN CITY	KS	66006-7162	2	16	20E	030-091-02-0-00-00-002.00-0	S02, T16, R20E, ACRES 105, W2 NW4 & E2 NW4 EXC E1130 N OF RR ROW & SW4 N OF RR ROW & E2 NW4 S OF RR ROW	3730 SHAWNEE RD, Ottawa, KS 66067
R5757	FRA0159	BROERS, MARTHA E & LONNIE & TERRY W & EVANS, LINDA BROERS	3707 RILEY RD			OTTAWA	KS	66067-8484	2	16	20E	030-091-02-0-00-00-003.00-0	S02, T16, R20E, ACRES 165.5, SW4 & SW4 NW4 S OF RR ROW LESS ROW	3707 RILEY RD, Ottawa, KS 66067
R5757	FRA0160	HUGHES, ROGER A & BEATRICE FAMILY LTD PARTNERSHIP	122 N MAIN ST			WELLSVILLE	KS	66092-8522	2	16	20E	030-091-02-0-00-00-004.00-0	S02, T16, R20E, ACRES 157.9 , SE4 LESS ROW	4150 TENNESSEE RD, Wellsville, KS 66092
R5764	FRA0155	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-01-006.00-0	S02, T16, R20E, ACRES 2.1, TR BEG S44.5N & 620W SE/C NFR2 NE4 N450 W205 S450 E205 TO POB	160 3RD ST-LELOUP, Wellsville, KS 66092
R5765	FGC0001	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-01-007.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 1.6, TR BEG 101.1N SW/C LT 7 BLK 1 FERGUSON N391.8 E223.2 S254.1 W110.3 S136.6 W112 TO POB	512 OAK-LELOUP, Wellsville, KS 66092
R5766	FGC0001A	DONOGHUE, DEBRA J	PO BOX 305			OTTAWA	KS	66067-0305	2	16	20E	030-091-02-0-10-01-008.00-0	FERGUSON (LELOUP), S02, T16, R20E, TR BEG SW/C LT 7 BLK 1 FERGUSON N101.1 E112 N136.6 W110.3 S238.3 W223.2 TO POB	163 6TH ST, LELOUP, KS 66092
R5767	FRA0151B	WHO'S ON FIRST LLC	15001 S QUIVIRA RD			OLATHE	KS	66062-9732	2	16	20E	030-091-02-0-10-01-009.00-0	S02, T16, R20E, ACRES 5.9, TR BEG SE/C N2 NE4 N544.5 W602.8 S544.5 E602.8 TO POB EXC TR BEG S44.5N SE/C N2 NE4 W230 SELY280 ALG CRK N90 TO	515 KANSAS-LELOUP, Wellsville, KS 66092
R5771	FGC0024	ROECKER, LEROY W JR & NICOLE M	216 LELOUP 3 ST			WELLSVILLE	KS	66092-8739	2	16	20E	030-091-02-0-10-02-003.00-0	FERGUSON (LELOUP), LTS 7-10 & 19-22 BLK 33 SECTION 02 TOWNSHIP 16 RANGE 20E	216 3RD ST-LELOUP, Wellsville, KS 66092
R5772	FGC0024B	RURAL WATER DIST #1	PO BOX 780			OTTAWA	KS	66067-0780	2	16	20E	030-091-02-0-10-02-003.01-0	FERGUSON (LELOUP), S02, T16, R20E, LTS 12-17 & E5 LTS 11 & 18 BLK 33 & ADJ VAC ALLEY SECTION 02 TOWNSHIP 16 RANGE 20E	220 3RD ST-LELOUP, Wellsville, KS 66092
R5773	FGC0022	DOUGLAS, ROBERT E & KAREN A	315 LELOUP OAK ST			WELLSVILLE	KS	66092-8731	2	16	20E	030-091-02-0-10-02-005.00-0	FERGUSON (LELOUP), LTS 1 2 3 4 5 6 & S2 VAC ALLEY BLK 33 SECTION 02 TOWNSHIP 16 RANGE 20E	315 OAK-LELOUP, Wellsville, KS 66092
R5774	FGC0030	HULLOPETER, TRENT S & SONIA D	306 LELOUP 3 ST			WELLSVILLE	KS	66092-8740	2	16	20E	030-091-02-0-10-03-001.00-0	FERGUSON (LELOUP), BLOCK 34, ACRES 1.4, LOTS 1-10 & LTS 21-26 & VAC ALLEY BLK 34 SECTION 02 TOWNSHIP 16 RANGE 20E	306 3RD ST-LELOUP, Wellsville, KS 66092
R5775	FGC0029	HULLOPETER, TRENT S & SONIA D	306 LELOUP 3 ST			WELLSVILLE	KS	66092-8740	2	16	20E	030-091-02-0-10-03-002.00-0	FERGUSON (LELOUP), BLOCK 34, LOTS 17-20 & 1/2 VAC ALLEY SECTION 02 TOWNSHIP 16 RANGE 20E	316 3RD ST-LELOUP, Wellsville, KS 66092
R5776	FGC0028	JSL LEASING SOLUTIONS LLC	4370 SHAWNEE RD			WELLSVILLE	KS	66067-8755	2	16	20E	030-091-02-0-10-03-004.00-0	FERGUSON (LELOUP), S02, T16, R20E, BLOCK 34, LTS 11-16 & 1/2 ADJ VAC ST & 1/2 VAC ALLEY SECTION 02 TOWNSHIP 16 RANGE 20E	322 WILLOW-LELOUP, Wellsville, KS 66092
R5777	FGC0018	COURTEMANCHE, MARK K & DEBRA K	16 E 2300 RD			WELLSVILLE	KS	66092-4040	2	16	20E	030-091-02-0-10-03-006.00-0	FERGUSON (LELOUP), N/2 LTS 1 2 & LTS 28-30 & 1/2 ADJ VAC STS & ALLEYS BLK 27 SECTION 02 TOWNSHIP 16 RANGE 20E	409 ELM, LELOUP, KS 66092
R5778	FGC0017	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-007.00-0	FERGUSON (LELOUP), S/2 LTS 1 2 & LT 3 & ADJ VAC ALLEY BLK 27 SECTION 02 TOWNSHIP 16 RANGE 20E	425 ELM, LELOUP, KS 66092
R5779	FGC0019	ROSS, ROBERT E & DONNA L	412 LELOUP WILLOW ST			WELLSVILLE	KS	66092-8742	2	16	20E	030-091-02-0-10-03-008.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 2.3, LTS 4-27 & VAC ALLEY & 1/2 ADJ VAC STS & ALLEYS BLK 27 SECTION 02 TOWNSHIP 16 RANGE 20E	412 WILLOW-LELOUP, Wellsville, KS 66092
R5780	FGC0015	ROSS, ROBERT E & DONNA L	412 LELOUP WILLOW ST			WELLSVILLE	KS	66092-8742	2	16	20E	030-091-02-0-10-03-009.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 3.5, TR BEG 325N SW/C LT 2 N140 NELY590 ALG RR ROW S480 W470 TO POB SECTION 02 TOWNSHIP 16 RANGE 20E	400 WILLOW-LELOUP, Wellsville, KS 66092
R5781	FGC0012	LAWRENCE, JAMES FRANCES & CHANTEL LEE	406 LELOUP 5 ST			WELLSVILLE	KS	66092-8893	2	16	20E	030-091-02-0-10-03-010.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 3.4, TR BEG 30S SW/C LT 2 E475 N352 W470 S355 TO POB & VAC STS & ALLEYS SECTION 02 TOWNSHIP 16 RANGE 20E	406 5TH ST-LELOUP, Wellsville, KS 66092
R5782	FRA0156A	KHLEANG, CHHO & KOY & SITHA	1408 BELLEFONTAINE AVE			KANSAS CITY	MO	64127-2114	2	16	20E	030-091-02-0-10-03-011.00-0	S02, T16, R20E, ACRES 35.1, TR BEG 659.5N & 410.1W SE/C NE4 W2140.2 N993.5 NELY170.9 SELY40 NELY242.1 S564.8 E1298.540 E489.8 S615.5 TO POB	162 6TH ST, LELOUP, KS 66092
R5783	FRA0156A1	BROWN, WESLEY E & BELINDA G	4238 TENNESSEE RD			WELLSVILLE	KS	66092-8805	2	16	20E	030-091-02-0-10-03-011.01-0	FERGUSON (LELOUP), ACRES 5.2 , TR BEG 658.9N SE/C NE4 W2140.2 N655.4 E410 S658.9 TO POB LESS ROW SECTION 02 TOWNSHIP 16 RANGE 20E	4238 TENNESSEE RD, Wellsville, KS 66092
R5784	FRA0156	DORSEY, BRENT J & LAURA R	3750 UTAH RD			WELLSVILLE	KS	66092-8811	2	16	20E	030-091-02-0-10-03-012.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 36.6, TR BEG SE/C NE4 N658.9 W2550.4 S659 E2541.6 TO POB LESS ROW INC VAC STS & ALLEYS SECTION 02 TOWNSHIP 16 RANGE 20E	4230 TENNESSEE RD, Wellsville, KS 66092
R5785	FGC0002	O'CONNOR, CHARLES W & GAIL	525 LELOUP OAK ST			WELLSVILLE	KS	66092-8733	2	16	20E	030-091-02-0-10-03-013.00-0	FERGUSON (LELOUP), LTS 1-2 & S50 LTS 3-4 & N/2 VAC ST S SIDE & S/2 VAC ALLEY N SIDE SECTION 02 TOWNSHIP 16 RANGE 20E	525 OAK-LELOUP, Wellsville, KS 66092
R5786	FGC0003	SEIMEARS, KATHY SUE & LESLIE LEE	224 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-015.00-0	FERGUSON (LELOUP), N67.5 LTS 3-4 BLK 23 & S/2 VAC ALLEY N SIDE SECTION 02 TOWNSHIP 16 RANGE 20E	212 5TH ST-LELOUP, Wellsville, KS 66092
R5787	FGC0010	COULTER, LESTER & TERESA C	332 LELOUP 5 ST			WELLSVILLE	KS	66092-8872	2	16	20E	030-091-02-0-10-03-018.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 1.3, LTS 5-10 BLK 24 LELOUP & E ADJ VAC ST W SIDE LOTS 7-8 & VAC N ST S SIDE LTS 5-7	332 5TH ST-LELOUP, Wellsville, KS 66092
R5788	FGC0010A	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-018.01-0	S02, T16, R20E, LTS 1-4 BLK 24 & 1/2 VAC ST ON S SIDE	525 ELM, LELOUP, KS 66092
R5789	FGC0011	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-019.00-0	FERGUSON (LELOUP), LTS 11-14 BLK 24 SECTION 02 TOWNSHIP 16 RANGE 20E	503 ELM, LELOUP, KS 66092
R5791	FGC0006	SEIMEARS, KATHY SUE & LESLIE LEE	224 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-020.00-0	FERGUSON (LELOUP), ACRES 1.0, LTS 5-10 & VAC ALLEY BLK 23 SECTION 02 TOWNSHIP 16 RANGE 20E	224 5TH ST-LELOUP, Wellsville, KS 66092
R5792	FGC0007	SEIMEARS, KATHY SUE & LESLIE LEE	224 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-03-021.00-0	FERGUSON (LELOUP), LTS 11-12 BLK 23 & N/2 VAC ALLEY ON S SIDE SECTION 02 TOWNSHIP 16 RANGE 20E	214 5TH ST-LELOUP, Wellsville, KS 66092
R5793	FGC0008	SHOGRIN, SHELDON L	1789 E 770 RD			LECOMPTON	KS	66050-4077	2	16	20E	030-091-02-0-10-03-022.00-0	FERGUSON (LELOUP), LTS 13-14 BLK 23 & N/2 VAC ALLEY ON S SIDE SECTION 02 TOWNSHIP 16 RANGE 20E	501 OAK-LELOUP, Wellsville, KS 66092
R5794	FGC0031	BOUSE, ROBERT L & JANET K TRUST	3814 SHAWNEE RD			WELLSVILLE	KS	66092-8750	2	16	20E	030-091-02-0-10-04-001.00-0	FERGUSON (LELOUP), S02, T16, R20E, ACRES 1.6, TR BEG SW/C INT BNSR RR ROW & 3RD ST W450 S320 NELY560 TO POB SECTION 02 TOWNSHIP 16 RANGE 20E	3814 SHAWNEE RD, Wellsville, KS 66092
R5795	FGC0021	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-05-002.00-0	FERGUSON (LELOUP), ACRES 1.5, LTS 9-28 BLK 28 & VAC ADJ ALLEY SECTION 02 TOWNSHIP 16 RANGE 20E	219 5TH ST-LELOUP, Wellsville, KS 66092
R5796	FGC0021C	O'DEA, TIMOTHY K & SHARLA M	211 LELOUP 5 ST			WELLSVILLE	KS	66092-8743	2	16	20E	030-091-02-0-10-05-002.01-0	FERGUSON (LELOUP), LTS 1-8 BLK 28 & S/2 VAC ALLEY ON N SIDE SECTION 02 TOWNSHIP 16 RANGE 20E	211 5TH ST-LELOUP, Wellsville, KS 66092
R5797	FRA0165	HUGHES FAMILY LIMITED PARTNERSHIP	122 MAIN ST			WELLSVILLE	KS	66092-8522	11	16	20E	030-091-11-0-00-00-001.00-0	S11, T16, R20E, ACRES 147.7, NE4 EXC TR BEG 876.95 NE/C NE4 S959 W455.7 N959 E453.4 TO POB LESS ROW	3864 RILEY RD, Wellsville, KS 66092
R5798	FRA0165A	SALLAZ, DONALD EUGENE & SANDRA L	4060 TENNESSEE RD			WELLSVILLE	KS	66092-8803	11	16	20E	030-091-11-0-00-00-001.01-0	S11, T16, R20E, ACRES 8.9, TR BEG 876.95 NE/C NE4 S959 W455.7 N959 E453.4 TO POB LESS ROW	4060 TENNESSEE RD, Wellsville, KS 66092
R5799	FRA0166	WEEKS, LESLIE & NANCY TRUST & COONS, MARC & SHANE	4085 OREGON RD			OTTAWA	KS	66067-8441	11	16	20E	030-091-11-0-00-00-002.00-0	S11, T16, R20E, ACRES 62.2, TR BEG NE/C NW4 S1310.9 W986.7 SELY106.5 S122.8 W1188.9 N813.4 W304.5 N700 E273 S675 E645.3 N675 E1044.6 TO POB LESS ROW	3780 RILEY RD, Ottawa, KS 66067
R5800	FRA0166C	COONS, SHANE L & JERRI B	3756 RILEY RD			OTTAWA	KS	66067-8441	11	16	20E	030-091-11-0-00-00-002.02-0	S11, T16, R20E, ACRES 9.5, TR BEG 955E NW/C NW4 E645.3 S675 W645.3 N675 TO POB LESS ROW	3756 RILEY RD, Ottawa, KS 66067
R5801	FRA0166D	COONS, MARC	4063 OREGON RD			OTTAWA	KS	66067-8441	11	16	20E	030-091-11-0-00-00-002.03-0	S11, T16, R20E, ACRES 4.7, TR BEG 310N SW/C NW4 N473.6 E459.6 S473.6 W459.9 TO POB LESS ROW	4019 OREGON RD, Ottawa, KS 66067
R5802	FRA0166A1	LEIBACH, KATHLEEN L & TIMOTHY J	4019 OREGON RD			OTTAWA	KS	66067-8441	11	16	20E	030-091-11-0-00-00-003.00-0	S11, T16, R20E, ACRES 3.3, TR BEG NW/C NW4 E292.5700 W232 N700 TO POB LESS ROW	4085 OREGON RD, Ottawa, KS 66067
R5803	FRA0166A	WEEKS, LESLIE & NANCY TRUST	4085 OREGON RD			OTTAWA	KS	66067-8441	11	16	20E	030-091-11-0-00-00-003.00-0	S11, T16, R20E, ACRES 3.3, TR BEG NW/C NW4 E292.5700 W232 N700 TO POB LESS ROW	4085 OREGON RD, Ottawa, KS 66067
R5820	HAY0161	SMITH, BONNIE MCCONNELL TRUST	173 E 1250 RD			BALDWIN CITY	KS	66006-7162	3	16	20E	030-092-03-0-00-00-001.00-0	S03, T16, R20E, ACRES 77.4, LTS 1 2 & LT 3 N OF RR ROW LESS ROW	4225 OHIO TER, Ottawa, KS 66067
R5821	HAY0162	SCOTT, DOUGLAS A	430 HERMOSA WAY			MENLO PARK	CA	94025-5824	3	16	20E	030-092-03-0-00-00-002.00-0	S03, T16, R20E, ACRES 214.3, NW4 & NE4 EXC LTS 1 & 2 LESS ROW	3590 SHAWNEE RD, Ottawa, KS 66067
R5822	HAY0165	MC CARTHUR, SANDRA K	Attn: MCARTHUR, SANDRA K	109 YAUPON LN		GEORGETOWN	TX	78633-4710	3	16	20E	030-092-03-0-00-00-003.00-0	S03, T16, R20E, ACRES 155.0, SW4 EXC TR BEG SW/C SW4 E500 N225 W500 S225 TO POB LESS ROW	4155 OHIO RD, Ottawa, KS 66067
R5824	HAY0166	MC BUSCH FARMS LLC	Attn: MCARTHUR, SANDRA K	109 YAUPON LN		GEORGETOWN	TX	78633-4710	3	16	20E	030-092-03-0-00-00-005.00-0	S03, T16, R20E, ACRES 52.0, W2 SE4 N RR LESS ROW	4175 OHIO TER, Ottawa, KS 66067
R5825	HAY0166A	SEYLER, EDWARD DEAN & MERNA L	4002 NEVADA RD			OTTAWA	KS	66067-8404	3	16	20E	030-092-03-0-00-00-006.00-0	S03, T16, R20E, ACRES 30.5, SE4 W OF RD & S OF RR ROW LESS ROW	4132 OHIO TER, Ottawa, KS 66067
R5826	HAY0167	BROERS, MARTHA E & LONNIE & TERRY W & EVANS, LINDA BROERS	3707 RILEY RD			OTTAWA	KS	66067-8484	3	16	20E	030-092-03-0-00-00-007.00-0	S03, T16, R20E, ACRES 47.9, LT 3 S OF RR ROW LESS ROW	3675 RILEY RD, Ottawa, KS 66067
R5853	HAY0212A	CHAMBERS, DEAN R & ALEXIS E	3473 TEXAS RD			WELLSVILLE	KS	66092-8789	10	16	20E	030-092-10-0-00-00-001.00-0	S10, T16, R20E, ACRES 28.2, TR BEG 280W NE/C NE4 S966 E280 S358 W1139.9 N1323.9 E88	

12/7/17 * Permit Number Assigned to Application

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
APPLICATION FOR INJECTION WELL

Form U-1
November 2011
Form must be Typed
Form must be Signed
All blanks must be Filled

Disposal ☐

Enhanced Recovery: ☐ Repressuring

☒ Waterflood

☐ Tertiary

Date: September 18 2017

Operator License Number: 5682

Operator: Hughes Drilling Co. a General Partnership

Address: 122 Main

Wellsville, KS 66092

Contact Person: Clay Hughes

Phone: 785-883-2235

Email: NA

* Permit Number: Pending NEW E-32,585-3-JK

API Number: 15-059-27154-00-00

Well Location

NE - SE - SW Sec. 2 Twp. 16 S. R. 20 ☒ E ☐ W

878 feet from ☐ N / ☒ S Line of Section

3079 feet from ☒ E / ☐ W Line of Section

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

Lease Description: SW/4 of the Sec.2 Twp.16S R.20E

Lease Name: W. Broers Well Number: I-2

Field Name: Leloup

County: Franklin

Deepest Usable Water

Formation: Squirrel

Depth to Bottom of Formation: _____

Check One: ☐ Old Well Being Converted ☒ Newly Drilled Well ☐ Well to be Drilled

Surface Elevation: _____ feet Well Total Depth: 793 feet Plug Back Depth: _____ feet

Datum of top of injection formation: _____ feet (reference mean sea level)

Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Squirrel	734 / 742	perf	734 to 742 feet
	/	at	to feet

List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:

(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. Hughes Drilling	W. Broers Lease	Sec.2 Twp.16 R.20E	See Attached
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. Squirrel	to feet	mg/l
2.	to feet	mg/l
3.	to feet	mg/l

Maximum Requested Liquid Injection Rate: 100 bbls / day; or

Maximum Requested Gas Injection Rate: _____ scf / day. Type of Gas: _____

Maximum Requested Injection Pressure: 600 psig

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Well Completion
 Type: ☐ Tubing & Packer ☐ Packerless ☐ Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		6 1/4		2 7/8	
Setting Depth		31		783	
Amount of Cement		12		104	
Top of Cement		0		0	
Bottom of Cement		31		783	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at _____ feet, cemented to _____ feet with _____ sx.

Tubing: Type _____ Grade _____

Packer: Type _____ Depth _____

Annulus Corrosion Inhibitor: Type _____ Concentration _____

List Logs Enclosed: _____

Well Sketch
(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

Static fluid level is _____ feet below surface.

Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

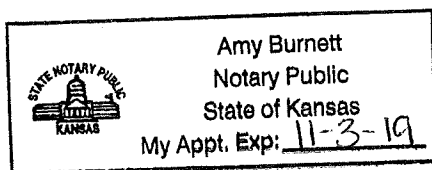
Name:

Legal Description of Leasehold:

See Attached

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

[Signature]
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 24 day of September, 2017

Notary Public

My Commission Expires:

[Signature]
11-3-19

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Instructions:

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
2. Attach some type of log (*drillers log, electric log, etc.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (*if any*) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. Deliver or mail one (*1*) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

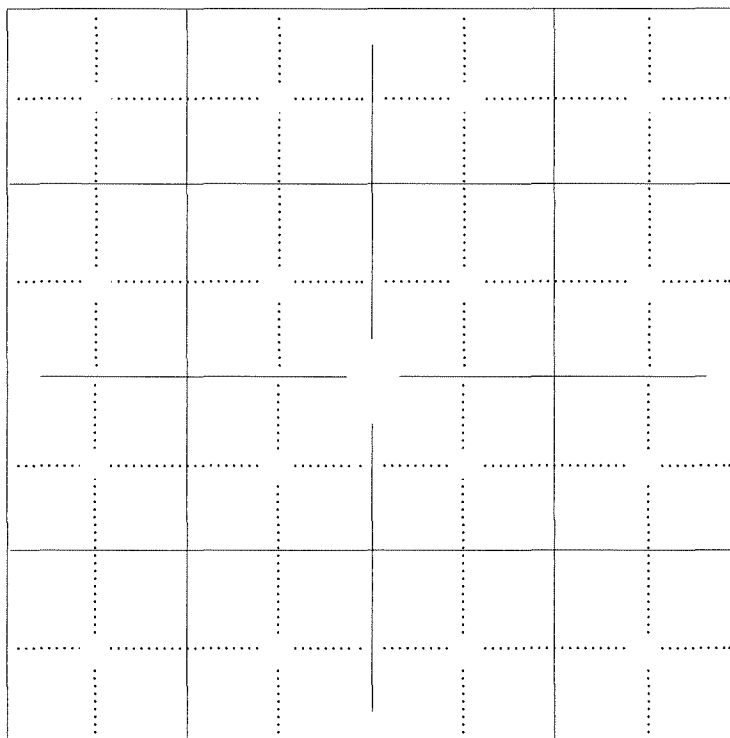
Plat and Certificate of Injection Well Location and Surrounding Acreages

Operator: Hughes Drilling Co, a Genral Partnership Location of Well: NE SE SW/4 of the Sec.2 Twp.16S R.20E
 Lease: W. Broers 878 feet from ☐ N / ☒ S Line of Section
 Well Number: I-2 3079 feet from ☒ E / ☐ W Line of Section
 County: Franklin Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

Plat

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.

See
Attached



applicant well

producing well

plugged injection well

D & A well

other injection well

temporary abandoned well

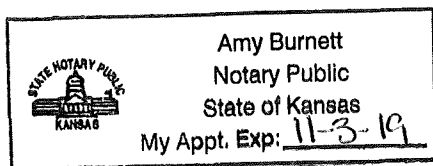
plugged producer

water supply well

The undersigned hereby certifies that he / she is a duly authorized agent for shown herein is true, complete and correct to the best of his / her knowledge.

Hughes Drilling Co
W. Broers
 Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017



Notary Public

My Commission Expires: 11-3-19

Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-2 Legal Location: NE SE SW/4 of the Sec.2 Twp.16S R.20E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26 of September,
2017, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name:

Address (Attach additional sheets if necessary)

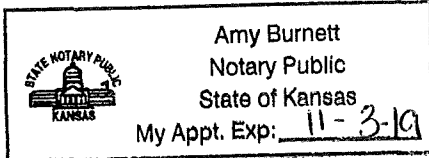
See Attached

KCC WICHITA
 SEP 28 2017
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I further attest that notice of the filing of this application was published in the Ottawa Herald, the official county publication
 of Franklin county. A copy of the affidavit of this publication is attached.

Signed this 26 day of September, 2017
[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 26 day of September, 2017



Notary Public

My Commission Expires:

[Signature]
11-3-19

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

Confidentiality Requested:

☐ Yes ☒ NoKANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1366561

Form ACO-1

November 2016

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Address 1: 122 MAIN

Address 2:

City: WELLSVILLE State: KS Zip: 66092 + 8522

Contact Person: Clay Hughes

Phone: (785) 883-2235

CONTRACTOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Wellsite Geologist: NA

Purchaser:

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ WSW ☐ SWD☐ Gas ☐ DH ☒ EOR☐ OG ☐ GSW☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer☐ Commingled Permit #: ☐ Dual Completion Permit #: ☐ SWD Permit #: ☐ EOR Permit #: ☐ GSW Permit #:

7/13/2017

Spud Date or
Recompletion Date

7/17/2017

Date Reached TD

7/17/2017

Completion Date or
Recompletion Date

API No.: 15-059-27154-00-00

Spot Description:

- NE - SE - SW Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West878 Feet from ☐ North / ☒ South Line of Section3079 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: Franklin

Lease Name: W. BROERS Well #: I-2

Field Name:

Producing Formation: Squirrel

Elevation: Ground: 952 Kelly Bushing: 952

Total Vertical Depth: 793 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 31 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: 1500 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

Quarter Sec. Twp. S. R. ☐ East ☐ West

County: Permit #:

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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 ☐ Drill Stem Tests Received☐ Geologist Report / Mud Logs Received☒ UIC DistributionALT ☐ I ☒ II ☐ III Approved by: Karen Ritter Date: 09/19/2017

1366561

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: W. BROERS Well #: I-2Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West County: Franklin

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 ☐ Yes ☒ No

(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☒ Yes ☐ NoElectric Log Run ☒ Yes ☐ NoGeologist Report / Mud Logs ☐ Yes ☒ No

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum ☐ SampleName
GammaRayTop
20Datum
GLCASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	9	6.250	10	31	Portland	12	50/50 POZ
Production	6	2.875	8	783	Portland	104	50/50 POZ

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	-			

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1. Did you perform a hydraulic fracturing treatment on this well? ☒ Yes ☐ No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☒ No (If No, skip question 3)
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)

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
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 (If vented, Submit ACO-18.)			METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4)			PRODUCTION INTERVAL: Top Bottom	
						734	742

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)
	734	742			

TUBING RECORD: Size: Set At: Packer At:

Form	ACO1 - Well Completion
Operator	Hughes Drilling Co, a General Partnership
Well Name	W. BROERS I-2
Doc ID	1366561

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	6.250	10	31	Portland	12	50/50 POZ
Production	6	2.875	8	783	Portland	104	50/50 POZ

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HUGHES DRILLING REPORT

Well No I-2 SURFACE CASING Size 6 1/4
 Farm W. Brooks Feet 31
 Circulated 12 sx cement

PERMANENT CSG.
 Size 2 3/8 81d FLE LHM
 Feet 783.15 of pipe float + shale on bottom

OPERATOR Hughes Drilling

T. D. at Completion 783
 Contractor HUGHES DRILLING CO.

Fr. 865 Co., Kansas
 FSL 3070 FEL

API # 15-059-27154

Sec 2 TWP 16 R 20

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/13/17	0	2	Soil	(1) 21.5 - 21.5
31	2	30	Clay	(2) 22.5 - 44.0
7/14/17	30	39	Shale	(3) 22.5 - 66.5
588 Pk	39	63	Lime	(4) 22.5 - 89.0
	63	69	Shale (Slate 68-69)	(5) 22.5 - 111.5
	69	80	Lime	(6) 22.5 - 134.0
	80	88	Shale	(7) 22.5 - 156.5
	88	106	Lime	(8) 22.5 - 179.0
	106	152	Shale	(9) 22.5 - 201.5
	152	180	Lime	(10) 22.5 - 224.0
	180	197	Shale	(11) 22.5 - 246.5
	197	199	Sand	(12) 22.5 - 269.0
	199	239	Shale	(13) 22.5 - 291.5
	239	262	Lime	(14) 22.5 - 314.0
	262	280	Shale	(15) 22.5 - 336.5
	280	286	Lime	(16) 22.5 - 359.0
	286	315	Shale (Broken 305-307)	(17) 22.5 - 381.5
	315	327	Lime	(18) 22.5 - 404.0
	327	348	Shale (Lime Break 331-332)	(19) 22.5 - 426.5
30'	348	372	Lime	(20) 22.5 - 449.0
	372	381	Shale (Slate 372-373)	(21) 22.5 - 471.5
20'	381	405	Lime	(22) 22.5 - 494.0
	405	409	Shale & Slate 405-406	(23) 22.5 - 516.5
	409	413	Lime	(24) 22.5 - 539.0
	413	415	Shale	(25) 22.5 - 561.5
"Horton"	415	421	Lime	(26) 22.5 - 584.0
	421	532	Shale (Broken 424-427)	(27) 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
28	Clay	30
9	Shale	39
24	Lime	63
6	Shale	69
11	Lime	80
8	Shale	88
18	Lime	106
46	Shale	152
28	Lime	180
17	Shale	197
2	Sand	199
40	Shale	239
33	Lime	262
18	Shale	280
6	Lime	286
29	Shale	315
12	Lime	327
21	Shale	348
30'	24 Lime	372
9	Shale	381
20'	24 Lime	405
4	Shale	409
4	Lime	413
2	Shale	415
"Horton"	6 Lime	421
11	Shale	532
3	Sand	535
39	Shale	570
4	Lime	574
16	Shale	590
10	Lime	600
10	Shale	610
3	Lime	613
4	Shale	622
9	Lime	631
12	Shale	643
2	Lime	645
8	Shale	653
8	Lime	661
12	Shale	673

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HUGHES DRILLING REPORT

Well No. **#1-2** Surface Casing Size _____ Permanent CSG. Size _____
 Farmer **W. BOERS** Feet _____ Feet _____
 Circulated _____ sx cement _____
 OPERATOR _____ T. D. at Completion **793**
 Contractor **HUGHES DRILLING CO.**

Fr _____ Co., Kansas **172**
863 FSL **3070** FEL

API # **15-059-27154**
 Sec 2 TWP 16 R 20

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Lime	625
6	Shale	681
1	Lime	682
2	Shale	684
#1 16	Sand	700
24	Shale	724
1	Lime	725
8	Shale	733
#2 1	Sand	744
33	Shale	787
1	Lime	788
5	Shale	792
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	532	535	Sand	(28) 22.5-629.0
53	535	570	Shale	(21) 22.5-651.5
7-17-17	570	574	Lime (Broken)	(40) 22.5-674.0
	574	590	Shale (sdy 579-581)	(21) 22.5-696.5
	590	600	Lime	(32) 22.5-719.0
	600	610	Shale	(33) 22.5-741.5
	610	613	Lime	(54) 22.5-764.0
	613	6	Shale	(35) 22.5-786.5
	622	631	Lime	
	631	643	Shale	
	643	645	Lime (Brown)	
	645	653	Shale (Slate 645-646)	
	653	661	Lime	
	661	673	Shale	
	673	675	Lime	
	675	681	Shale	
	681	682	Lime	
std	682	684	Shale	
Squirrel	684	700	Sand (remarks pg 3)	
	700	724	Shale	
	724	725	Lime	
	725	733	Shale	
BZ	733	744	Sand (remarks pg 4)	
Squirrel	744	787	Shale	
	787	788	Lime	
	788	793	Shale	
			T.D.	

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7-17-17 Set 783.15 of 2 7/8 80' ELU New
 Used 3 Centralizers Float shoe on lotte



PRESSURE PUMPING LLC
PO Box 824, Chanute, KS 66720
620-431-8210 or 800-467-8878

FIELD TICKET & TREATMENT REPORT CEMENT

Invoice # 810771

TICKET NUMBER 53814

LOCATION Oklahoma KS

FOREMAN Fred Maden

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-17-17	3425	N. Broers # I-2	SW 2	16	20	FR
CUSTOMER Hughes Drilling Co.						
MAILING ADDRESS 122 Main St						
CITY Wellsville	STATE KS	ZIP CODE 66092	TRUCK #	DRIVER	TRUCK #	DRIVER
			712	Fred Maden		
			467	Ki Car		
			804	Arl McD		

JOB TYPE long stem HOLE SIZE 5 7/8 HOLE DEPTH 793 CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 783 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/ek _____ CEMENT LEFT in CASING 2 1/2" Plug
DISPLACEMENT 4.55 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 413 BPM

REMARKS: Hold Safety Meeting. Establish Circulation Mix + Pump
100 # Gel Flush. Mix + Pump SKS Per Blend 1A
Cement 270 cu ft 14 # Flo Seal / SK. Cement to Surface.
Flush pump + lines clean. Displace 2 1/2" Rubber Plug
to casing TD. Pressure to 800+ PSI. Hold + Monitor
Pressure For 30 min MIT. Release pressure to Set
Float Valve. Shut In Casing.

Customer Supplied Water

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	467 1500.00	
CE0002	15 mi	MILEAGE	467 10725.00	
CE0711	minimum	Ton Miles Delivery	804 1660.00	
		Sub Total	2267.25	
		Less 55%		1020.26
13238 CE5846	1045 SKS	Per Blend 1A Cement	1404.00	
CC5865	275 #	Bentonite Gel	62.00	
CC6075	26 #	Cello Flake	52.00	
CP8176	1	2 1/2" Rubber Plug	45.00	
		Sub Total	1583.00	
		Less 55%		712.28
KCC WICHITA				
SEP 28 2017				
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		SALES TAX	57.01	
		ESTIMATED TOTAL	1789.85	
			13777.43	

Revlin 3737

AUTHORIZATION _____

TITLE _____

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.

12/7/17 * Permit Number Assigned to Application

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

APPLICATION FOR INJECTION WELL

Form U-1
November 2011

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

Disposal ☐

Enhanced Recovery: ☐ Repressuring

☒ Waterflood

☐ Tertiary

Date: September 18 2017

Operator License Number: 5682

Operator: Hughes Drilling Co. a General Partnership

Address: 122 Main

Wellsville, KS 66092

Contact Person: Clay Hughes

Phone: 785-883-2235

Email: NA

*Permit Number: Pending NEW E-32,585-3-JK

API Number: 15-059-27155-00-00

Well Location

- NE - SE - SW Sec. 2 Twp. 16 S. R. 20 ☒ E ☐ W

1251 feet from ☐ N / ☒ S Line of Section

3073 feet from ☒ E / ☐ W Line of Section

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

Lease Description: SW/4 of the Sec.2 Twp.16S R.20E

Lease Name: W. Broers Well Number: I-3

Field Name: Leloup

County: Franklin

Deepest Usable Water

Formation: Squirrel

Depth to Bottom of Formation:

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Check One: ☐ Old Well Being Converted ☒ Newly Drilled Well ☐ Well to be Drilled

Surface Elevation: feet Well Total Depth: 792 feet Plug Back Depth: feet

Datum of top of injection formation: feet (reference mean sea level)

Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Squirrel	730 / 736	perf	at 730 to 736 feet
			at to feet

List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:

(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. Hughes Drilling	W. Broers Lease	Sec.2 Twp.16 R.20E	See Attached
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. Squirrel	to feet	mg/l
2.	to feet	mg/l
3.	to feet	mg/l

Maximum Requested Liquid Injection Rate: 100 bbls / day; or

Maximum Requested Gas Injection Rate: scf / day. Type of Gas:

Maximum Requested Injection Pressure: 600 psig

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Well CompletionType: ☐ Tubing & Packer ☐ Packerless ☐ Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		6 1/4		2 7/8	
Setting Depth		35		782	
Amount of Cement		12		105	
Top of Cement		0		0	
Bottom of Cement		35		782	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at _____ feet, cemented to _____ feet with _____ sx.

Tubing: Type _____ Grade _____

Packer: Type _____ Depth _____

Annulus Corrosion Inhibitor: Type _____ Concentration _____

List Logs Enclosed: _____

Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

Static fluid level is _____ feet below surface.

Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

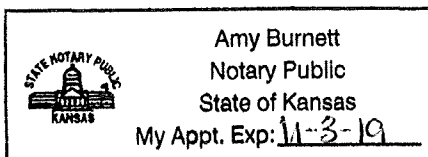
Name:

Legal Description of Leasehold:

See Attached

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017

Notary Public

My Commission Expires:

Amy Burnett

11-3-19

KCC WICHITA

SEP 28 2017

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Instructions:

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
2. Attach some type of log (*drillers log, electric log, etc.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (*if any*) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

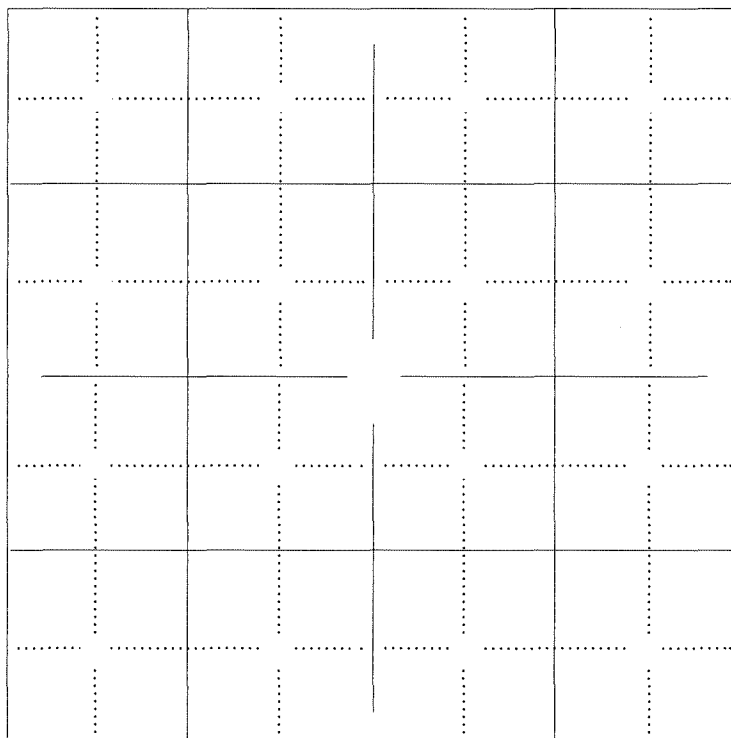
Plat and Certificate of Injection Well Location and Surrounding Acreages

Operator: Hughes Drilling Co, a Genral Partnership Location of Well: NE SE SW/4 of the Sec.2 Twp.16S R.20E
 Lease: W. Broers 1251 feet from ☐ N / ☒ S Line of Section
 Well Number: I-3 3073 feet from ☒ E / ☐ W Line of Section
 County: Franklin Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

Plat

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.

See
Attached



applicant well

producing well

plugged injection well

D & A well

other injection well

temporary abandoned well

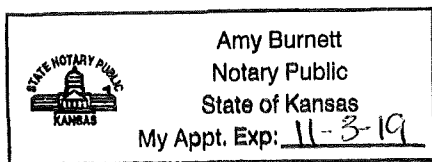
plugged producer

water supply well

The undersigned hereby certifies that he / she is a duly authorized agent for Hughes Drilling Co, and that all of the information shown herein is true, complete and correct to the best of his / her knowledge.

Juan Baker
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017



Amy Burnett
Notary Public

My Commission Expires: 11-3-19

Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-3 Legal Location: NE SE SW/4 of the Sec.2 Twp.16S R.20E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26 of September,
2017, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name

Address (Attach additional sheets if necessary)

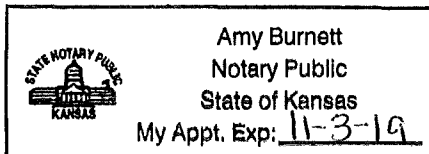
See Attached

KCC WICHITA
 SEP 28 2017
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I further attest that notice of the filing of this application was published in the Ottawa Herald, the official county publication
 of Franklin county. A copy of the affidavit of this publication is attached.

Signed this 26 day of September, 2017
[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 26 day of September, 2017



Notary Public

My Commission Expires:

Amy Burnett
11-3-19

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

Confidentiality Requested:

☐ Yes ☒ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1366562

Form ACO-1

November 2016

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Address 1: 122 MAIN

Address 2: _____

City: WELLSVILLE State: KS Zip: 66092 + 8522

Contact Person: Clay Hughes

Phone: (785) 883-2235

CONTRACTOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Wellsite Geologist: NA

Purchaser: _____

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD

☐ Gas ☐ DH ☒ EOR

☐ OG ☐ GSW

☐ 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 EOR ☐ Conv. to SWD

☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled

Permit #: _____

☐ Dual Completion

Permit #: _____

☐ SWD

Permit #: _____

☐ EOR

Permit #: _____

☐ GSW

Permit #: _____

7/18/2017

7/20/2017

7/20/2017

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No.: 15-059-27155-00-00

Spot Description: _____

NE-SE-SW Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

1251 Feet from ☐ North / ☒ South Line of Section

3073 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: Franklin

Lease Name: W. BROERS

Well #: I-3

Field Name: _____

Producing Formation: Squirrel

Elevation: Ground: 949 Kelly Bushing: 949

Total Vertical Depth: 792 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 35 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: 1500 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

KCC WICHITA
SEP 28 2017
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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 ☐ Drill Stem Tests Received

☐ Geologist Report / Mud Logs Received

☒ UIC Distribution

ALT ☐ I ☒ II ☐ III Approved by: Karen Ritter Date: 09/19/2017

1366562

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: W. BROERS Well #: I-3Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West County: Franklin

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.

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Drill Stem Tests Taken ☐ Yes ☒ No

(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☒ Yes ☐ NoElectric Log Run ☒ Yes ☐ NoGeologist Report / Mud Logs ☐ Yes ☒ No

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum☐ SampleName
GammaRayTop
20Datum
GLCASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

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Production	6	2.875	8	782	Portland	105	50/50 POZ

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	-			

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1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☒ No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)
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)

Date of first Production/Injection or Resumed Production/Injection:		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
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 (If vented, Submit ACO-18.)		METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4)		PRODUCTION INTERVAL: Top Bottom 730 736	
------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------------	--

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)
	730	736			

TUBING RECORD: Size: Set At: Packer At:

Form	ACO1 - Well Completion
Operator	Hughes Drilling Co, a General Partnership
Well Name	W. BROERS I-3
Doc ID	1366562

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	6.250	10	35	Portland	12	50/50 POZ
Production	6	2.875	8	782	Portland	105	50/50 POZ

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HUGHES DRILLING REPORT

Well No. I-3

Farm W. Broers

SURFACE CASING

Size 6 1/4"

Feet 35'

Circulated 12 x cement

PERMANENT CSG

Size 2 7/8" 8rd ELV (New)

Feet 782.45' of pipe

With Flare shoe on Bottom

T. D. at Completion 792'

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

Pr Co., Kansas

1245 FSL 3070 FEL

API # 15-059-27155

Sec 2 TWP. 16 R. 20

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
30	Clay	32
1	Gravel	33
25	Lime	38
6	Shale	64
12	Lime	70
6	Shale	82
19	Lime	101
65	Shale	166
17	Lime	183
55	Shale	238
23	Lime	261
15	Shale	276
7	Lime	283
29	Shale	312
12	Lime	324
20	Shale	344
30'	24 Lime	368
	9 Shale	377
20'	23 Lime	400
	4 Shale	404
	9 Lime	408
	2 Shale	410
"Hertua"	6 Lime	416
	11 Shale	527
	2 Sand	529
	37 Shale	566
	4 Lime	579
	15 Shale	585
	10 Lime	595
	8 Shale	603
	6 Lime	609
	7 Shale	616
	7 Lime	623
	14 Shale	637
	3 Lime	640
	7 Shale	647
	10 Lime	657
	9 Shale	665
	3 Lime	668
	10 Shale	678

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/18/17	0	2	Soil	(1) 21.5-21.5
35'	2	32	Clay	(2) 22.5-44.0
7/19/17	32	33	Gravel	(3) 22.5-66.5
5/8 PDC	33	58	Lime	(4) 22.5-89.0
	58	64	Shale (Slate 63-64)	(5) 22.5-111.5
	64	76	Lime	(6) 22.5-134.0
	76	82	Shale	(7) 22.5-156.5
	82	101	Lime	(8) 22.5-179.0
	101	166	Shale	(9) 22.5-201.5
	166	183	Lime	(10) 22.5-224.0
	183	238	Shale (Lime 93-94)	(11) 22.5-246.5
	238	261	Lime	(12) 22.5-268.0
	261	276	Shale (Slate 267-269)	(13) 22.5-281.5
	276	283	Lime	(14) 22.5-314.0
	283	312	Shale	(15) 22.5-336.5
	312	324	Lime	(16) 22.5-359.0
	324	344	Shale (Lime Break 328-329)	(17) 22.5-381.5
30'	344	368	Lime	(18) 22.5-404.0
	368	377	Shale (Slate 375-376)	(19) 22.5-426.5
20'	377	400	Lime	(20) 22.5-449.0
	400	404	Shale (Slate 400-401)	(21) 22.5-471.5
	404	408	Lime	(22) 22.5-494.0
	408	410	Shale	(23) 22.5-516.5
"Hertua"	410	416	Lime	(24) 22.5-539.0
	416	527	Shale (Broken 420-424)	(25) 22.5-561.5
"Peru"	527	529	Sand (slight color)	(26) 22.5-584.0
	529	566	Shale	(27) 22.5-606.5

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HUGHES DRILLING REPORT

Well No. I-3

Farm W. Brooks

SURFACE CASING

Size

Feet

Circulated sx cement

PERMANENT CSG.

Size

Feet

T. D. at Completion 792'

Contractor HUGHES DRILLING CO.

OPERATOR

FC. Co., Kansas (17)

1245 FSL 3070 FEL

API # 15-099-27155

Sec 2 TWP. 16 R. 20

STRATA THICKNESS	FORMATION DRILLED	T.D.
15	sand	693
13	Shale	706
1	Lime	707
2	Shale	728
2	Lime	730
10	sand	740
32	Shale	772
1	Lime	773
14	Shale	792
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	566	570	Lime	(28) 22.5-629.0
	570	585	Shale (BRKN 574-577)	(29) 22.5-651.5
	585	595	Lime	(30) 22.5-674.0
	595	603	Shale	(31) 22.5-696.5
	603	608	Lime	(32) 22.5-719.0
	608	616	Shale	(33) 22.5-741.5
	616	623	Lime	(34) 22.5-764.0
	623	637	Shale	(35) 22.5-786.5
	637	640	Lime (Brown)	
	640	647	Shale (slate 640-641)	
	647	657	Lime	
	657	665	Shale	
	665	668	Lime	
	668	678	Shale	
12/29/17	678	693	Sand	
	693	706	Shale	
	706	707	Lime	
	707	728	Shale	
	728	730	Lime	
12/29/17	730	740	Sand	
	740	792	Shale	
			T.D.	
7-20-17 set 782.45 of 2" 80' PVC used 3 centralizers And float shoe on Bottom				

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

FIELD TICKET & TREATMENT REPORT
CEMENT

8023/85W
TICKET NUMBER 50457
LOCATION Ottawa
FOREMAN Alan Mader

Invoice # 810789

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-20-17	3425	N. Browns #3	541 3	16	20	FL
CUSTOMER Hughes Drilling						
MAILING ADDRESS 122 Main						
CITY Wellsville	STATE KS	ZIP CODE 66092	TRUCK #	DRIVER	TRUCK #	DRIVER
			735	Alan Mader	Safety Meet	
			368	Ar/McD		
			548	Nick Hays		

JOB TYPE long string HOLE SIZE 55/8 HOLE DEPTH 792 CASING SIZE & WEIGHT 2 7/8
CASING DEPTH 782 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING yes
DISPLACEMENT _____ DISPLACEMENT PSI 800 MIX PSI 200 RATE 4.5 gpm

REMARKS: Held meeting, mixed & pumped 100 # gel followed by 105.3K PB 1A plug 2% gel & 1/4" flo seal per sack. Circulated cement. Flushed pump. Pumped plug to casing TD. Set float.

Hughes water

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	15	MILEAGE	107.25	
CE0711	min	Ton miles	660.00	
		Sub	2267.25	
		less 55%	-1246.99	1020.26
CE5840	105	PB 1A	1417.50	
CE5965	276	gel	82.80	
CE6075	26	Flo seal	52.00	
CP8176	1	2 1/2 plug	45.00	
		Sub	1597.30	
		less 55%	-878.53	718.78
		8%		
		SALES TAX		57.50
		ESTIMATED TOTAL		1796.58
				(3992.33)

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Ravin 3737

AUTHORIZATION _____

TITLE _____

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.

12/7/17 Permit Number Assigned to Application

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

APPLICATION FOR INJECTION WELL

Form U-1
November 2011

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

Disposal ☐

Enhanced Recovery: ☐ Repressuring

☒ Waterflood

☐ Tertiary

Date: September 18 2017

Operator License Number: 5682

Operator: Hughes Drilling Co. a General Partnership

Address: 122 Main

Wellsville, KS 66092

Contact Person: Clay Hughes

Phone: 785-883-2235

Email: NA

*Permit Number: Pending NEW E-32,585-3-JR

API Number: 15-059-27156-00-00

Well Location

- SE - NE - SW Sec. 2 Twp. 16 S. R. 20 ☒ E ☐ W

1713 feet from ☐ N / ☒ S Line of Section

3093 feet from ☒ E / ☐ W Line of Section

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

Lease Description: SW/4 of the Sec.2 Twp.16S R.20E

Lease Name: W. Broers Well Number: I-4

Field Name: Leloup

County: Franklin

Deepest Usable Water

Formation: Squirrel

Depth to Bottom of Formation:

Check One: ☐ Old Well Being Converted ☒ Newly Drilled Well ☐ Well to be Drilled

Surface Elevation: feet Well Total Depth: 747 feet Plug Back Depth: feet

Datum of top of injection formation: feet (reference mean sea level)

Injection Formation Description:

Name	top / bottom	perf / open hole	depth
Squirrel	725 / 730	perf	725 to 730 feet
	/	at	to feet

List of Wells/Facilities Supplying Produced Saltwater or Other Fluids Approved by the Conservation Division:

(attach additional sheets if necessary)

Lease Operator	Lease/Facility Name	Lease/Facility Description	Well ID & Spot Location
1. Hughes Drilling	W. Broers Lease	Sec.2 Twp.16 R.20E	See Attached
2.			
3.			

Producing Formation	Strata Depth	Total Dissolved Solids (if available)
1. Squirrel	to feet	mg/l
2.	to feet	mg/l
3.	to feet	mg/l

Maximum Requested Liquid Injection Rate: 100 bbls / day; or

Maximum Requested Gas Injection Rate: scf / day. Type of Gas:

Maximum Requested Injection Pressure: 600 psig

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Well CompletionType: ☐ Tubing & Packer ☐ Packerless ☐ Tubingless

	Conductor	Surface	Intermediate	Production	Tubing
Size		6 1/4		2 7/8	
Setting Depth		29		714	
Amount of Cement		10		96	
Top of Cement		0		0	
Bottom of Cement		29		714	

If Alternate II cementing, complete the following:

Perforations / D.V. Tool at _____ feet, cemented to _____ feet with _____ sx.

Tubing: Type _____ Grade _____

Packer: Type _____ Depth _____

Annulus Corrosion Inhibitor: Type _____ Concentration _____

List Logs Enclosed: _____

Well Sketch

(To sketch installation, darken the appropriate lines, indicate cement, and show depths.)

Static fluid level is _____ feet below surface.

Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

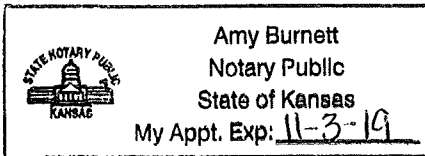
Name:

Legal Description of Leasehold:

See Attached

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017

Notary Public

My Commission Expires:

11-3-19

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Instructions:

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops.
2. Attach some type of log (*drillers log, electric log, etc.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (*if any*) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record and each unleased mineral rights owner within one-half mile of the applicant well.
8. Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

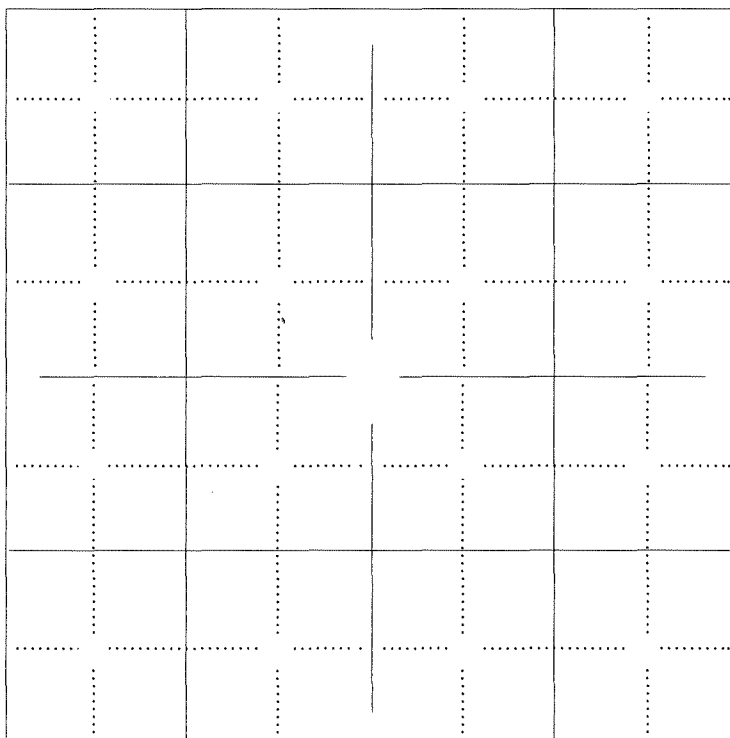
Plat and Certificate of Injection Well Location and Surrounding Acreages

Operator: Hughes Drilling Co, a Genral Partnership Location of Well: SE NE SW/4 of the Sec.2 Twp.16S R.20E
 Lease: W. Broers 1713 feet from ☐ N / ☒ S Line of Section
 Well Number: I-4 3093 feet from ☒ E / ☐ W Line of Section
 County: Franklin Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

Plat

Show the following information: applicant injection well, all producing wells, inactive wells, plugged wells, and other wells within a one-half mile radius, all lease boundaries, lease operators, unleased mineral rights owners, well numbers, and producing wells producing formation tops.

See
Attached



applicant well

producing well

plugged injection well

D & A well

other injection well

temporary abandoned well

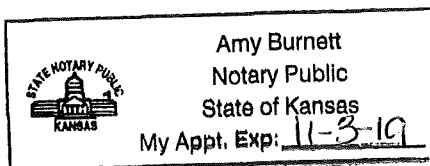
plugged producer

water supply well

The undersigned hereby certifies that he / she is a duly authorized agent for Hughes Drilling Co, a Genral Partnership, and that all of the information shown herein is true, complete and correct to the best of his / her knowledge.

W. Broers
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 26 day of September, 2017



Amy Burnett
Notary Public

My Commission Expires: 11-3-19

Affidavit of Notice Served

Re: Application for: Hughes Drilling Co, a General Partnership
 Well Name: W. Broers I-4 Legal Location: SE NE SW/4 of the Sec.2 Twp.16S R.20E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 26 of September,
2017, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

Note: A copy of this affidavit must be served as a part of the application.

Name

Address (Attach additional sheets if necessary)

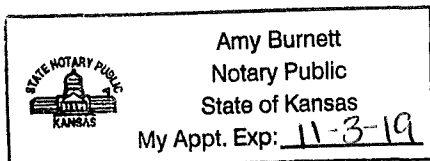
See Attached

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 SEP 28 2017
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I further attest that notice of the filing of this application was published in the Wichita Herald, the official county publication
 of Franklin county. A copy of the affidavit of this publication is attached.

Signed this 26 day of September, 2017
[Signature]
 Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 26 day of September, 2017



Notary Public

My Commission Expires: 11-3-19

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address of the protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 30 days of the publication notice of the application.

Confidentiality Requested:

☐ Yes ☒ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1366564

Form ACO-1

November 2016

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Address 1: 122 MAIN

Address 2: _____

City: WELLSVILLE State: KS Zip: 66092 + 8522

Contact Person: Clay Hughes

Phone: (785) 883-2235

CONTRACTOR: License # 5682

Name: Hughes Drilling Co, a General Partnership

Wellsite Geologist: NA

Purchaser: _____

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD

☐ Gas ☐ DH ☒ EOR

☐ OG ☐ GSW

☐ 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 EOR ☐ Conv. to SWD

☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: _____

☐ Dual Completion Permit #: _____

☐ SWD Permit #: _____

☐ EOR Permit #: _____

☐ GSW Permit #: _____

7/24/2017 7/25/2017 7/25/2017

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: 15-059-27156-00-00

Spot Description: _____

SE-NE-SW Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West

1713 Feet from ☐ North / ☒ South Line of Section

3093 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: Franklin

Lease Name: W. BROERS Well #: I-4

Field Name: _____

Producing Formation: Squirrel

Elevation: Ground: 947 Kelly Bushing: 947

Total Vertical Depth: 740 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 29 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: 1500 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

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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 ☐ Drill Stem Tests Received

☐ Geologist Report / Mud Logs Received

☒ UIC Distribution

ALT ☐ I ☒ II ☐ III Approved by: Karen Ritter Date: 09/19/2017

1366564

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: W. BROERS Well #: I-4Sec. 2 Twp. 16 S. R. 20 ☒ East ☐ West County: Franklin

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 ☐ Yes ☒ No

(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☒ Yes ☐ NoElectric Log Run ☒ Yes ☐ NoGeologist Report / Mud Logs ☐ Yes ☒ No

List All E. Logs Run:

GammaRay/Neutron/CCL

☐ Log Formation (Top), Depth and Datum ☐ SampleName
GammaRayTop
20Datum
GLCASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	9	6.250	10	29	Portland	10	50/50 POZ
Production	6	2.875	8	714	Portland	96	50/50 POZ

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	-			

KCC WICHITA
SEP 28 2017

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☒ No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)
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)

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Date of first Production/Injection or Resumed Production/ Injection:		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
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 (If vented, Submit ACO-18.)		METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4)		PRODUCTION INTERVAL: Top Bottom 725 730	
------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------------	--

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)
	725	730			

TUBING RECORD:	Size:	Set At:	Packer At:
----------------	-------	---------	------------

Form	ACO1 - Well Completion
Operator	Hughes Drilling Co, a General Partnership
Well Name	W. BROERS I-4
Doc ID	1366564

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9	6.250	10	29	Portland	10	50/50 POZ
Production	6	2.875	8	714	Portland	96	50/50 POZ

KCC WICHITA
SEP 28 2017
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HUGHES DRILLING REPORT

Well No. I-4
Farm W. Brooks

SURFACE CASING

Size 6 1/4"
Feet 29.15

Circulated 10 sx cement

PERMANENT CSG.

Size 2 7/8" 80 EUE (new)

Feet 714.75 of pipe float shoe on bottom

T. D. at Completion 740

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

Fr. Co., Kansas

1700 FSL 3070 FEL

API # 15099-27156

Sec 2 TWP 16 R 20

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/24/17	0	2	Soil	(1) 21.5 - 21.5
24'	2	24	Clay	(2) 21.5 - 44.0
7/25/17	24	28	Shale	(3) 22.5 - 66.5
5 7/8"	28	52	Lime	(4) 22.5 - 89.0
PDC	52	59	Shale	(5) 22.5 - 111.5
	59	69	Lime	(6) 22.5 - 134.0
	69	75	Shale	(7) 22.5 - 156.5
	75	99	Lime	(8) 22.5 - 179.0
	99	152	Shale	(9) 22.5 - 201.5
	152	153	Lime	(10) 22.5 - 224.0
	153	161	Shale	(11) 22.5 - 246.5
	161	177	Lime	(12) 22.5 - 269.0
	177	232	Shale	(13) 22.5 - 291.5
	232	258	Lime	(14) 22.5 - 314.0
	258	267	Shale (Broken 264-267)	(15) 22.5 - 336.5
	267	275	Lime	(16) 22.5 - 359.0
	275	303	Shale	(17) 22.5 - 381.5
	303	314	Lime	(18) 22.5 - 404.0
	314	336	Shale (Lime 314-320)	(19) 22.5 - 426.5
30'	336	360	Lime	(20) 22.5 - 449.0
	360	368	Shale (Shale 367-368)	(21) 22.5 - 471.5
20'	368	391	Lime	(22) 22.5 - 494.0
	391	395	Shale (Shale 391-392)	(23) 22.5 - 516.5
	395	398	Lime	(24) 22.5 - 539.0
	398	401	Shale	(25) 22.5 - 561.5
"Hearth"	401	407	Lime	(26) 22.5 - 584.0
	407	520	Shale (Broken 411-414)	(27) 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
22	Clay	24
4	Shale	28
24	Lime	52
7	Shale	59
10	Lime	69
6	Shale	75
24	Lime	99
53	Shale	152
1	Lime	153
8	Shale	161
16	Lime	177
53	Shale	232
26	Lime	258
9	Shale	267
8	Lime	275
28	Shale	303
11	Lime	314
22	Shale	336
30'	24' Lime	360
8	Shale	368
20'	23' Lime	391
4	Shale	395
3	Lime	398
3	Shale	401
"Hearth"	6' Lime	407
113	Shale	520
3	Sand	523
52	Shale	575
10	Lime	585
8	Shale	593
5	Lime	598
7	Shale	603
9	Lime	614
11	Shale	625
4	Lime	629
6	Shale	635
13	Lime	647
7	Shale	654
1	Lime	655
3	Shale	658

KCC WICHITA
SEP 28 2017
RECEIVED



PO Box 884, Chanute, KS 66720
620-431-4444 or 800-457-8676

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 50459

LOCATION *of Kung*

FOREMAN Alvin M. DeLo

Invoice #810850

DATE		CUSTOMER #		WELL NAME & NUMBER		SECTION		TOWNSHIP		RANGE		COUNTY	
7-26-17		3425		N BROADS T-4		34 2		16		30		FR	
CUSTOMER Hughes Drilling MAILING ADDRESS 122 N Main CITY Wellsville						TRUCK #		DRIVER		TRUCK #		DRIVER	
						730		Ala Mac		Safety		Meet	
						363		Al Mac					
						548		Cas Ken					
STATE				ZIP CODE									
KS				66097									

JOB TYPE	Long string	HOLE SIZE	5 1/8	HOLE DEPTH	740	CASING SIZE & WEIGHT	2 1/2
CASING DEPTH	714	DRILL PIPE		TUBING		OTHER	
SLURRY WEIGHT		SLURRY VOL		WATER gal/sk		CEMENT LEFT in CASING	Var
DISPLACEMENT	4.15	DISPLACEMENT PSI	800	MIX PSI	300	RATE	76 gpm

REMARKS: Held Meeting. Established rate. Mixed & pumped 100# gel followed by 96.5k Poz Blend F-A plus 2% gel & 1/4# floccat. Circulated cement. Flushed pump. Pumped plug to casing TD. Well held 800 PSI for 30 minute MTT. Set float.

Epic water

Alex Mober

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	15	MILEAGE	107.25	
CE0711	man	ten miles	660.00	
		Sub	2267.25	
		Less 35%	1216.91	1020.06
EC5840	96.5K	Poz Blend I-A	1296.00	
CC5965	261#	gel	78.30	
CC6075	24#	flap seal	48.00	
CP8176	1	2 1/2 plug	45.00	
		Sub	1467.30	
		Less 5.5%	-807.02	660.28
KCC WICHITA				
SEP 28 2017				
RECEIVED			SALES TAX	52.82

Rayon 3737

AUTHORIZATION [Signature] TITLE _____

SALES TAX	52.82
ESTIMATED TOTAL	1733.94
DATE	6-30-51

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.