

Permit #: 20059 Date Issued: 3-4-92
 County: Pates Date Cancelled: _____
 CONFIDENTIAL UNTIL: _____ Date Plugged: 3-16-92

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	3-3-92
3i	
4	
4i	3-29-92
5	
6	4-20-92
7	
8	4-20-92
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	drillers log		8-6-92
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data:



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

NAME OF COMPANY OR OPERATOR: Douglas G. Evans DATE: 2/20/92

ADDRESS: 401 S. Main, Suite 11 CITY: Ottawa STATE: KS ZIP CODE: 66067

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: Cushard WELL NUMBER: 1 ELEVATION (GROUND): 838 Feet

WELL LOCATION: 2457 ²⁰ FT. FROM (N)(S) SECTION LINE 3970 ³⁹⁷⁰ FEET FROM (E)(W) SECTION LINE

WELL LOCATION: SECTION 29 TOWNSHIP 41 RANGE 31 COUNTY Bates

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 170 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE: FEET

PROPOSED DEPTH: 800 DRILLING CONTRACTOR, NAME AND ADDRESS: Evans Energy Dev. Inc. Paola, KS 66071 ROTARY OR CABLE TOOLS: Rotary APPROX. DATE WORK WILL START: 3/2/92

NUMBER OF ACRES IN LEASE: 327 NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 0 NUMBER OF ABANDONED WELLS ON LEASE: 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NO. OF WELLS: PRODUCING 0 INJECTION 0 INACTIVE 0 ABANDONED 0

STATUS OF BOND: SINGLE WELL AMOUNT \$2000 BLANKET BOND AMOUNT \$ ON FILE ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING ZONE AND EXPECTED NEW PRODUCING 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" or first bedrock	6 1/4		6 sacks	First Bedrock 800'	6 1/4		6 sacks
800'	2 7/8		150 sacks		2 7/8		150 sacks

I, the undersigned, state that I am the individual of the (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: Douglas G. Evans DATE: 2-20-92

PERMIT NUMBER: 20059 APPROVAL DATE: 3/4/92 APPROVED BY: [Signature]

DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN
 CORE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO. REQUIRED IF RUN
 SAMPLES REQUIRED
 SAMPLES NOT REQUIRED
 WATER SAMPLES REQUIRED AT

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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.

MO Oil & Gas Council

I of the 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



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

NEW WELL WORKOVER DEEPEN PLUG BACK INJECTION SAME RESERVOIR DIFFERENT RESERVOIR OIL GAS DRY

OWNER Douglas G. Evans		ADDRESS 401 S. Main, Suite #11 Ottawa, KS 66067			
LEASE NAME Cushard		WELL NUMBER #1			
LOCATION 2457 Ft From N line 1141 Ft From W Line			SEC. TWP. AND RANGE OR BLOCK AND SURVEY 29 41 31		
COUNTY Bates	PERMIT NUMBER (OGC-3 OR OGC-3I) #20059				
DATE SPUDDED 3/14/92	DATE TOTAL DEPTH REACHED 3/16/92	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKR, RT, OR Gr.) FEET 838'	ELEVATION OF CASING HD. FLANGE FEET	
TOTAL DEPTH 642	PLUG BACK TOTAL DEPTH				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION None		ROTARY TOOLS USED (INTERVAL) 0 TO 642		CABLE TOOLS USED (INTERVAL)	
WAS THIS WELL DIRECTIONALLY DRILLED? No	WAS DIRECTIONAL SURVEY MADE?	DRILLING FLUID USED		DATE FILED	
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) None				DATE FILED	

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	6 1/4"	7"		32.70'	6 sacks	

TUBING RECORD

LINER RECORD

SIZE IN.	DEPTH SET FEET	PACKER SET AT FEET	SIZE INCH	TOP FEET	BOTTOM FEET	SACKS CEMENT	SCREEN FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION Dry		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP.)					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST bbls.	GAS PRODUCED DURING TEST MCF	WATER PRODUCED DURING TEST bbls.	OIL GRAVITY API (CORR.)	
TUBING PRESSURE	CASING PRESSURE	CAL'ED RATE OF PRODUCTION PER 24 HOURS		OIL bbls.	GAS MCF	WATER bbls.	
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)							

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METHOD OF DISPOSAL OF MUD PIT CONTENTS

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE individual Douglas G. Evans MO Oil & Gas Council OF THE _____ 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.

DATE 4-14-92	SIGNATURE <i>Douglas G. Evans</i>
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310 N. Hospital Drive

Paola, Kansas 66071

(913) 294-9083

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Custom
oil & gas
drilling
Lease Development

WELL LOG
Cushard - #1
Doug Evans Exploration
March 14-16, 1992

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
18	soil & clay	18
57	shale	75
3	shale	78-black, some coal
30	shale	108
3	coal	111
3	shale	114
2	shale & coal	116-laminated
2	shale	118
2	shale & coal	120-laminated
3	shale	123-lt. gray
1	sandy shale	124-lt. gray
4	shale	128-light gray
1	sand	129
16	shale	145
3	sand	148-white
12	shale	160
10	sand	170-brown
59	sand	229-light brown, water
10	sand	239-slight dead oil show
2	sand	241
6	lime	247-sandy
46	sand	293
4	sand & shale	297-gray
1	pyrite	298
3	sand	301
5	lime	306
16	shale	322
11	lime	333-shale laminations 328-332
3	shale	336-black, crispy
13	shale	349-gray
1	coal	350
84	shale	434
8	sand	442-light gray
25	shale	467
4	sand	471-gray, shaley
24	shale	495-with thin sand laminations
20	sand & shale	515-50% dark shale, 50% tight sand
61	shale	576
8	sand	584
58	lime	642-water on top, salty, sulfer smell 642-TD

Cushard - #1

Set 32,70' of 7" T & C Surface Casing.

This well was plugged with 10 sacks at 620', 10 sacks at 260' and filled from 80' to the surface.

Plugging began @ 4:00 p.m.

Plugging ended @ 5:00 p.m. on 03/16/92.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

FORM OGC-7

OWNER Douglas G. Evans		ADDRESS 401 S. Main, Suite #11 Ottawa, KS 66067			
NAME OF LEASE Cushard		WELL NUMBER #1	PERMIT NUMBER (OGC-3 OR OGC-3I NUMBER) #20059		
LOCATION OF WELL 2457 Ft From N Line 1141 Ft From W Line 29 41 31		SEC-TWP-RNG OR BLOCK & SURVEY		COUNTY Bates	
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF Douglas G. Evans		HAS THIS WELL EVER PRODUCED OIL OR GAS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBL/DAY) GAS (MCF/DAY)		DRY? Yes
DATE ABANDONED 3/16/92	TOTAL DEPTH 642'	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBL/DAY) GAS (MCF/DAY) Ø Ø		WATER (BBL/DAY)	
Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.		Fluid content of each formation		Depth interval of each formation	
None				Mississippi	
				Oil show	
				Surface	
				Portland Cement 560-600	
				Portland Cement 205-245	
				Portland Cement 40-0	
SIZE PIPE	PUT IN WELL (FT)	PULLED OUT (FT)	LEFT IN WELL (FT)	GIVE DEPTH AND METHOD OF PARTING CASING (SHOT, RIPPED, ETC.)	PACKERS AND SHOES
7"	32.7'		32.7'		
WAS WELL FILLED WITH MUD-LADEN FLUID?			INDICATE DEEPEST FORMATION CONTAINING FRESH WATER		
NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
NAME		ADDRESS		DIRECTION FROM THIS WELL	
METHOD OF DISPOSAL OF MUD PIT CONTENTS					
NOTE FILE THIS FORM IN DUPLICATE WITH: (USE REVERSE SIDE FOR ADDITIONAL DETAIL)					
CERTIFICATE I, the undersigned, state that I am the <u>individual</u> of the _____ (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 <i>Douglas G. Evans</i>				DATE 4/14/92	

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STATION Ottawa OPERATOR Fred Mader

P.O. Box 884
Chanute, Kansas 66720
Phone (316) 431-9210

Ticket 88102

CONSOLIDATED OIL WELL SERVICES, INC.

Date <u>3-26-92</u>	Customer's Acct. No. <u>2654</u>	Sec.	Twp.	Range	Well No. & Farm <u>Cushard #1</u>	Place or Destination <u>Passaic</u>
Charge To <u>Doug Evans Exploration</u>			Owner			County <u>Bates</u>
Mailing Address <u>401 S main Prof Bldg</u>			Contractor <u>Evans Energy Dev</u>			State <u>Mo.</u>
City & State <u>Ottawa, Ks 66067</u>			Well Owner Operator Contractor			

CEMENTING SERVICE DATA

TYPE OF JOB	CASING	HOLE DATA	PLUGS AND HEAD	PRESSURE	CEMENT LEFT IN CASING
Surface	New	Bore Size <u>5 1/8</u>	Bottom	Circulating	Requested
Production	Used	Total Depth <u>622</u>	Top	Minimum	Necessity
Squeeze	Size		Head	Maximum	Measured
Pumping	Weight	Cable Tool	FLOAT EQUIPMENT		Sacks Cement <u>40</u>
Other	Depth	Rotary			Type & Brand <u>Portland A-Pos mix</u>
	Type				Admixes <u>6% Premium Gel</u>

FRACTURING - ACIDIZING SERVICE DATA

Type of Job	At Intervals of					
Bbls Fracturing Fluid	Breakdown Pressure from	psi to	psi			
Treating Pressures: Maximum	psi	Minimum	psi	Avg. Pump Rate	GPM/BPM	Close In
Sand	Gals. Treating Acid	Type			Open Hole Diameter	
Well Treating Through: Tubing	Casing	Annulus	Size		Weight	
Remarks:						
No. Perforations	Pay Formation Name		Depth of Job			Ft.

CEMENTING

INVOICE SECTION

FRACTURING - ACIDIZING

Pumping Charge	Office Use	\$	Pumping Charge	Office Use	\$
<u>40</u> Sacks Bulk Cement @ <u>5.25</u>		<u>210.00</u>	12x30 Sand @		
Ton Mileage on Bulk Cement <u>70</u> @ <u>0.80</u>		<u>60.00</u>	10x20 Sand @		
<u>35x</u> Premium Gel @ <u>0.90</u>		<u>26.70</u>	x Sand @		
Flo-Seal @			Ton Mileage @		
Calcium Chloride @			Gals., Acid @		
Plug @			Chemicals @		
Equipment @			10 sx @ 622'		
@			10 sx @ 260'		
@			20 sx @ 80' Ho Surface		
@			Potassium Chloride @		
@			Rock Salt @		
Granulated Salt @			Water Gel @		
Transport Truck (Hrs.) @			Transport Truck (Hrs.) @		
Vac Truck (Hrs.) @			Vac Truck (Hrs.) @		
Rig Water @					
	Tax	<u>12.11</u>			
	Total	<u>\$ 627.81</u>			

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A Finance Charge computed at 1 3/4% per month (annual percentage rate of 21%) will be added to balance over 30 days.

128603

T41N R31W



1" = 400' ±

GRIFFIN

65-08-4

19 | 20 Co. Road

41
45
2
Ac
N

1-30-29
159.8 Ac

2
80.0 Ac

LONG

CUSHARD

2457' ±

ECKERT

8
246.5 Ac

PROPOSED WELL
CUSHARD #1

1141' ±

3
~~80.0~~ Ac.
77.4 Ac. (c)
79.2 Ac

WELSTON

WELL LOCATION MAP - BATES COUNTY TAX
MAP 65-08-9
PROPOSED CUSHARD WELL #1 IN THE WEST 1/2
NW 1/4 29-41-31 SHEET 1 OF 2

838 ekaton

William C. Lethcho

WILLIAM C. LETHCHO
BATES COUNTY SURVEYOR
COURTHOUSE
BUTLER, MO. 64730

ad

W. C. LETHCHO
 COUNTY ENGINEER & SURVEYOR
 Bates County Court House
 BUTLER, MO. 64730
 Phone 679-4031

WELL REFERENCE TIES IN THE $W\frac{1}{2}NW\frac{1}{4}$ 29-41-31

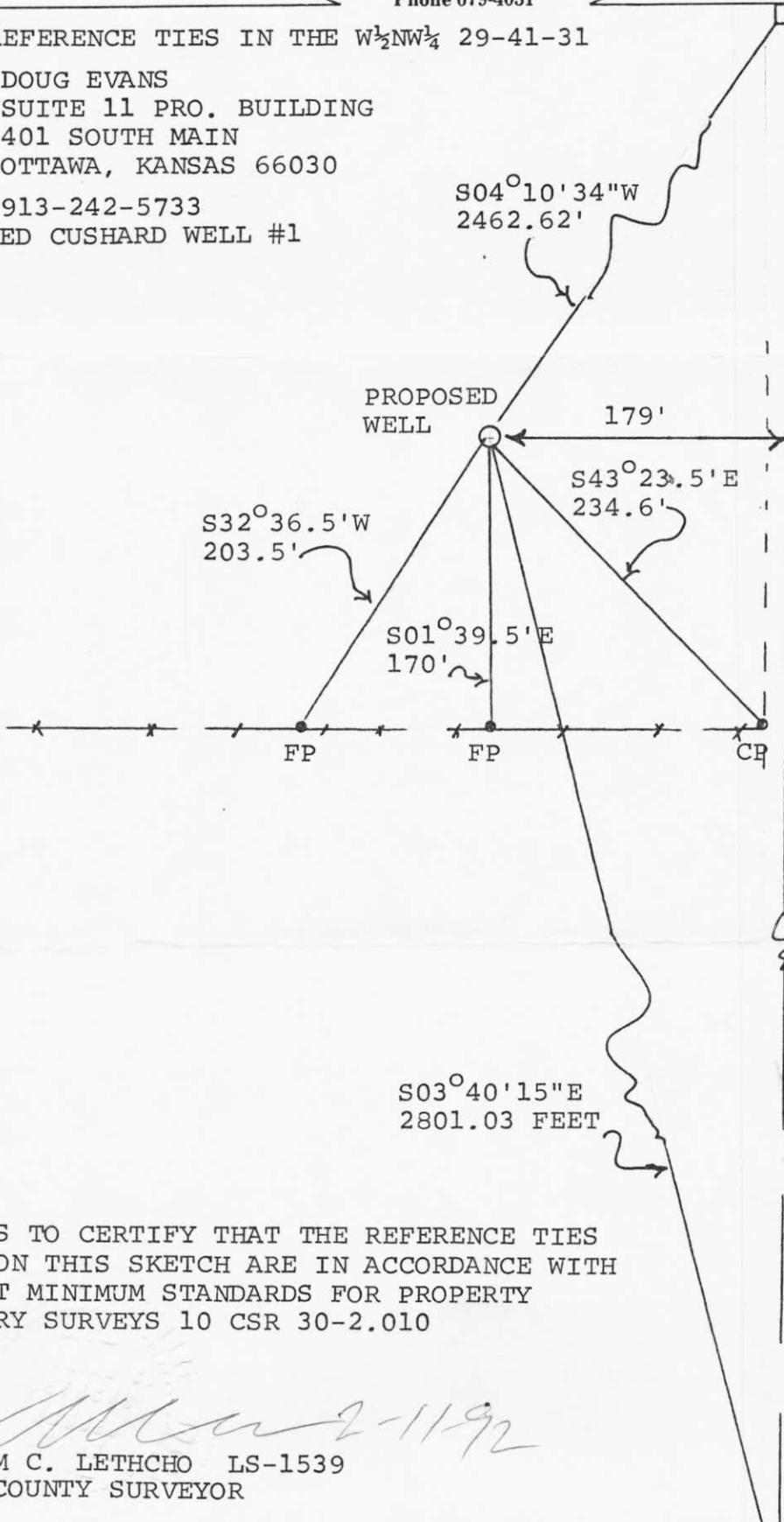
FOR: DOUG EVANS
 SUITE 11 PRO. BUILDING
 401 SOUTH MAIN
 OTTAWA, KANSAS 66030
 913-242-5733
 PROPOSED CUSHARD WELL #1

NE COR
 $W\frac{1}{2}NW\frac{1}{4}$



1"=100'

EAST LINE $W\frac{1}{2}$
 $NW\frac{1}{4}$ ASSUMED
 NORTH-SOUTH



THIS IS TO CERTIFY THAT THE REFERENCE TIES
 SHOWN ON THIS SKETCH ARE IN ACCORDANCE WITH
 CURRENT MINIMUM STANDARDS FOR PROPERTY
 BOUNDARY SURVEYS 10 CSR 30-2.010

William C. Lethcho
 WILLIAM C. LETHCHO LS-1539
 BATES COUNTY SURVEYOR

SE COR
 $W\frac{1}{2}SW\frac{1}{4}$

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