

Permit #: 20077

Date Issued: 6-18-93

County: Bates

Date Cancelled:

CONFIDENTIAL, UNTIL:

Date Plugged: ~~6-18-93~~ 6-22-93

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	6-14-93
3i	
4	
4i	
5	8-6-93
6	
7	
8	8-6-93
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	drillers log		8-6-93
Samples	chip core		
	water		
Analyses	core		

Additional Submitted Data:



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

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FORM OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

MO Oil & Gas Council

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

NAME OF COMPANY OR OPERATOR Colt Energy, Inc.		DATE 6-10-93	
ADDRESS P.O. Box 388	CITY Iola	STATE KS	ZIP CODE 66749

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE Karlin-Hardin	WELL NUMBER 6-22	ELEVATION (GROUND) 854
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE) 248 FT. FROM (N) SECTION LINE 2035 FEET FROM (E) SECTION LINE		
SECTION 22	TOWNSHIP 41N	RANGE 33W
COUNTY Bates		

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 1600 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE 165 FEET

PROPOSED DEPTH 650	DRILLING CONTRACTOR, NAME AND ADDRESS Evans Energy Deve., Inc. KS	ROTARY OR CABLE TOOLS Rotary	APPROX. DATE WORK WILL START 6-18-93
NUMBER OF ACRES IN LEASE 2080	NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR <u>1</u>		
	NUMBER OF ABANDONED WELLS ON LEASE <u>0</u>		

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?

NAME _____ ADDRESS _____

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

STATUS OF BOND SINGLE WELL AMOUNT \$ _____ BLANKET BOND AMOUNT \$ 80,000 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.
30	6 5/8	17	6SXS	"	"	"	"
650	2 7/8	6.4	60SXS	"	"	"	"

I, the undersigned, state that I am the Agent of the Colt Energy, Inc. (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 Donna Keckha DATE 6-10-93

PERMIT NUMBER #20077	<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED	<input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN
APPROVAL DATE <u>6/18/93</u>	<input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN	<input checked="" type="checkbox"/> DRILL STEM TEST INFO. REQUIRED IF RUN
APPROVED BY <u>Jane Holly Williams</u>	<input type="checkbox"/> SAMPLES REQUIRED	
	<input checked="" type="checkbox"/> SAMPLES NOT REQUIRED	
	<input type="checkbox"/> WATER SAMPLES REQUIRED AT _____	

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.

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
---------------------	------

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

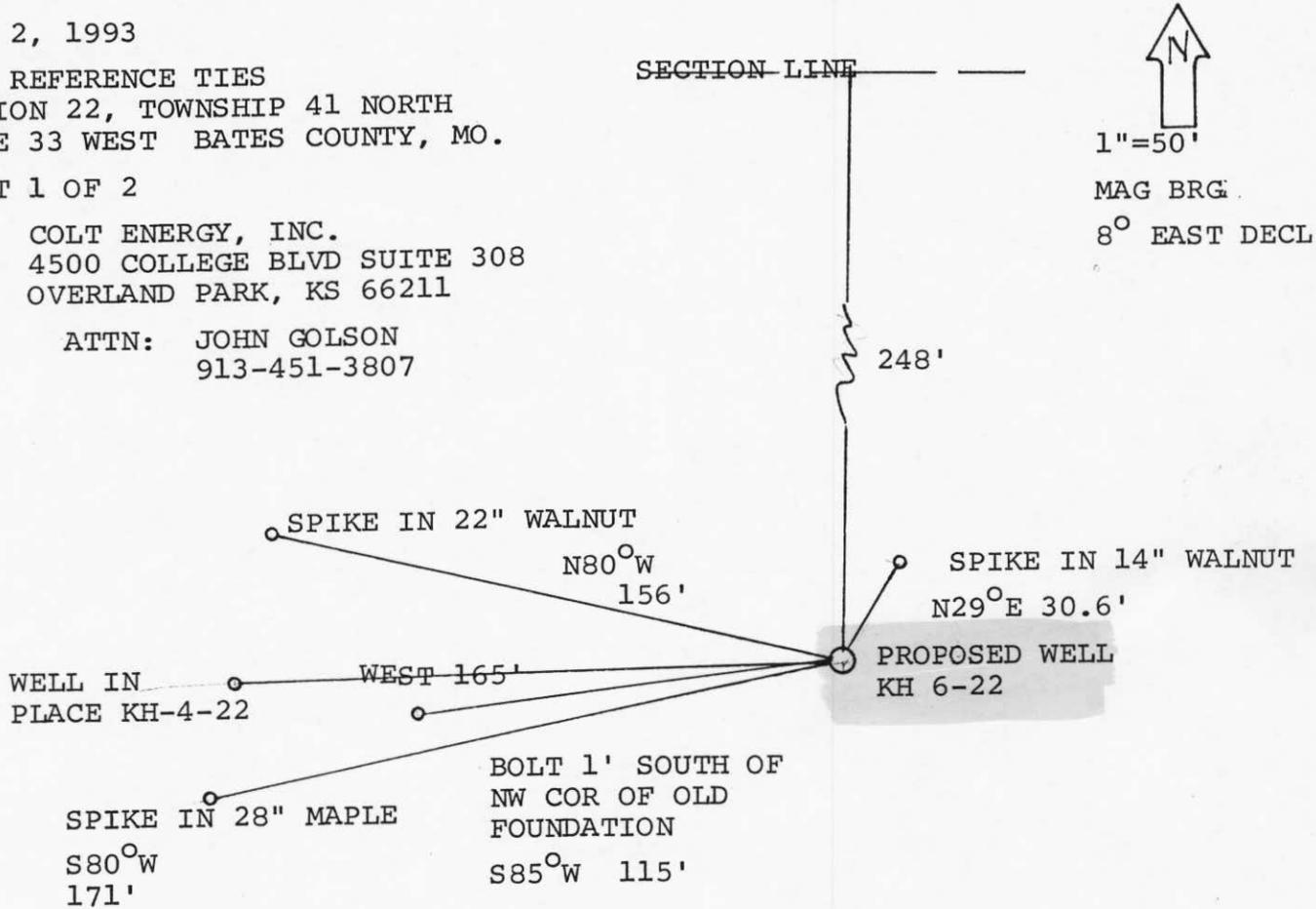
JUNE 2, 1993

WELL REFERENCE TIES
SECTION 22, TOWNSHIP 41 NORTH
RANGE 33 WEST BATES COUNTY, MO.

SHEET 1 OF 2

FOR: COLT ENERGY, INC.
4500 COLLEGE BLVD SUITE 308
OVERLAND PARK, KS 66211

ATTN: JOHN GOLSON
913-451-3807



THIS IS TO CERTIFY THE REFERENCE TIES SHOWN ARE IN
ACCORDANCE WITH CURRENT MINIMUM STANDARDS.

LS-1539

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Co. Road
15 14
22 23

65-06-6



1" = 400'
T41N R33W
Sheet 2 of 2
Tax Map
06-5

⊕
↑
BAG ±

PROPOSED
KH 6-22

2035 ±

511.6 Ac.(c)

WILLIAM C. LETHCHO LS-1539
BATES COUNTY SURVEYOR
6-2-93

Section

3
800 Ac
776 Ac.(c)

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

Form OGC-5

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

OWNER Colt Energy, Inc.		ADDRESS P.O. Box 388, Iola, KS 66749			
LEASE NAME Karlin-Hardin		WELL NUMBER 6-22			
LOCATION 248FNL 2035FEL			SEC. TWP. AND RANGE OR BLOCK AND SURVEY 22-41-33		
COUNTY Bates	PERMIT NUMBER (OGC-3 OR OGC-31) 20077				
DATE SPUDDED 6-21-93	DATE TOTAL DEPTH REACHED 6-22-93	DATE COMPLETED READY TO PRODUCE OR INJECT -----	ELEVATION (DF, RKR, RT, OR Gr.) FEET 854	ELEVATION OF CASING HD. FLANGE ----- FEET	
TOTAL DEPTH 325	PLUG BACK TOTAL DEPTH Plugged to surface				
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION -----		ROTARY TOOLS USED (INTERVAL) Surface to 325		CABLE TOOLS USED (INTERVAL) No	
DRILLING FLUID USED Native	WAS THIS WELL DIRECTIONALLY DRILLED? No		WAS DIRECTIONAL SURVEY MADE? -----		DATE FILED -----
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) Drillers Log				DATE FILED 8-3-93	

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	9.5/8	7"	17#	20	5	=====

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

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

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION		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	CALC'D RATE OF PRODUCTION PER 24 HOURS		OIL bbls.	GAS MCF	WATER bbls.
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)						

METHOD OF DISPOSAL OF MUD PIT CONTENTS
Pumped out, Pushed pit in

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE Agent OF THE Colt Energy, Inc. 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 8-3-93	SIGNATURE
----------------	---------------



310 N. Hospital Drive

Paola, Kansas 66071

(913) 294-9083

Custom
oil & gas
drilling
Lease Development

WELL LOG
Karlin-Hardin - #6-22
Colt Energy, Inc.
Permit #20077
June 21 - June 22, 1993

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8	soil & clay	8
27	shale	35
3	lime	38
16	shale	54
2	coal	56
6	shale	62
14	lime	76
13	shale	89
6	lime	95
33	shale	128
17	lime	145
11	shale	156
2	lime	158
4	shale	162
1	lime	163-with sea shells
7	shale	170
1	lime	171
2	shale	173
10	sand & shale	183-10% brown sand, 90% silty shale
2	sand & shale	185-50% brown sand, 50% silty shale
14	shale	199
1	sand & shale	200-10% bleeding sand, 90% shale
2	sand & shale	202-70% bleeding sand, 30% shale
9	shale	211-silty, few bleeding sand laminations
2	sand	213-bleeding well
2	sand & shale	215-50% good bleeding sand, 50% silty shale
12	shale	227-silty
5	sand	232-with some shale laminations, bleeding well
6	sand & shale	238-10% good bleeding sand, 90% silty shale
1	sand	239-good bleeding
4	sand & shale	243-30% light bleeding sand, 70% silty shale
9	silty sand	252-gray, no bleeding
2	sandy lime	254-water
1	coal	255
3	shale	258-light gray

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Karlin-Hardin - #6-22 (con't)

1	lime	259
4	shale	263
3	lime	266
3	shale	269-gray
1	shale	270-black
3	shale	273-gray
1	coal	274
20	shale	294-light gray
.2	lime & sand	294.2-slight bleeding
.4	shale	294.6
.7	sand	295.3-bleeding well
.5	shale	295.8
.1	sand	295.9-bleeding well
.3	shale	296.2
.5	sand	296.7-bleeding well
.3	shale	297
1	sand	298-bleeding well
1.3	shale	299.3-muddy
.3	lime	299.4
1.2	shale	300.6-muddy
.5	lime & shale	301.1
5.9	shale	307-dark
2	coal	309
5	shale	314-light gray
2	lime	316-with shale seams
9	shale	325-TD

Set 20.0' of 7" T & C Surface Casing.

This well was plugged with cement from 325' to the surface from 12:00 noon to 1:00 p.m. on June 22, 1993.

Cattleman Core Times

	<u>Min.</u>	<u>Sec.</u>
295	1	30
296	1	10
297	1	10
298		50
299		50
300	1	15
301	1	40
302	2	05
303	1	45
304	1	55
305	1	50

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

FORM OGC-7

OWNER Colt Energy, Inc.		ADDRESS P.O. Box 388, Iola, KS 66749			
NAME OF LEASE Karlin-Hardin		WELL NUMBER 6-22	PERMIT NUMBER (OGC-1 OR OGC-31 NUMBER) 20077		
LOCATION OF WELL 248FNL 2035FEL		SEC-TWP-RNG OR BLOCK & SURVEY 22-41-33		COUNTY Bates	
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF Colt Energy, Inc.		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? Dry
DATE ABANDONED 6-22-93	TOTAL DEPTH 325	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBL/DAY) _____ GAS (MCF/DAY) _____		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	
Squirrel		Light Oil Saturation		183-243	
				Plugged well from 325' to surface using 45 sxs Cement.	
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"	20'	3'	17'	Cut surface pipe off below plow depth.	
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		Pumped Out		MO Oil & Gas Council	
NOTE FILE THIS FORM IN DUPLICATE WITH (USE REVERSE SIDE FOR ADDITIONAL DETAIL)					
CERTIFICATE I, the undersigned, state that I am the <u>Agent</u> of the <u>Colt Energy, Inc.</u> (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>Cornie Keshner</i>				DATE 8-3-93	

STATION Ottawa OPERATOR Fred Mader

Ticket 85325

CONSOLIDATED OIL WELL SERVICES, INC.

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

Date <u>6-22-93</u>	Customer's Acct. No. <u>1828</u>	Sec. <u>22</u>	Twp. <u>21N</u>	Range <u>33W</u>	Well No. & Farm <u>Korlin Hardin 6-22</u>	Place or Destination <u>Amsterdam</u>
Charge To <u>Colt Energy Inc.</u>			Owner			County <u>Bate Co.</u>
Mailing Address <u>P.O. Box 388</u>			Contractor <u>Evans Energy Dev.</u>			State <u>MO</u>
City & State <u>Jola, KS 66749</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 7/8</u>	Bottom	Circulating	Requested
Production	Used	Total Depth <u>320</u>	Top	Minimum	Necessity
Squeeze	Size		Head	Maximum	Measured
Pumping	Weight	Cable Tool	FLOAT EQUIPMENT		Sacks Cement <u>45</u>
Other	Depth	Rotary <u>AIR</u>		Type & Brand <u>Portland A. Por Mix</u>	
	Type			Admixes <u>6% 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 psi
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 <u>Plug 1 well</u>	Office \$	Pumping Charge	Office \$
Pumping Charge @	Use \$ <u>3250</u>	Pumping Charge @	Use \$
<u>45</u> Sacks Bulk Cement @	<u>236.25</u>	12x30 Sand @	
Ton Mileage on Bulk Cement <u>60</u> @	<u>60.00</u>	10x20 Sand @	
<u>30x</u> Premium Gel @	<u>20.70</u>	x Sand @	
Flo-Seal @		Ton Mileage @	
Calcium Chloride @		Gals., Acid @	
Plug @		Chemicals @	
Equipment @			
@			
@			
@			
@		Potassium Chloride @	
@		Rock Salt @	
Granulated Salt @		Water Gel @	
Transport Truck (Hrs.) @		Transport Truck (Hrs.) @	
Vac Truck (Hrs.) @		Vac Truck (Hrs.) @	
<u>Rig Water</u> @			
	Tax <u>16.44</u>		Tax
	Total \$ <u>658.59</u>	<u>136858</u>	Total \$

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

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