Kansas Corporation Commission OIL & GAS CONSERVATION DIVIS

WELL COMPLETION FOR

5663

Hess Oil Company

P. O. Box 1009

Operator: License #.

WELL HISTORY - DESCRIPTION OF WEL

ON CON VATION D	MMISSION DIVISION Form Mus	Form ACO-1 otember 1999 ot Be Typed
TION I	FORM WELL & LEASE CO WOOD DELLA	D-02
	5- <u>033-21303-0000</u> UKIUIN	AL
County:	Comanche	
<u>Ap S2</u>	N2. N2 Sec. 19 Twp. 33 S. R. 19 TEA	st West
7	780 feet from 🎸 / Ň (circle one) Line of	Section
2	650 feet from (E) # (circle one) Line of	Section
	Calculated from Nearest Outside Section Corner:	
	(circle one) (IE) SE NW SW	
Lease Nai	me: Baker Farms Well #: 2	
Field Nam	ne: Collier Flats	
Producing	Formation: Mississippi	
Flevation:	Ground: 2023' Kelly Bushing: 2028'	<u> </u>
	th: 5440' Plug Back Total Depth: 5377'	
	f Surface Pipe Set and Cemented at 803	Feet
		Yes V No
•	ow depth set	Feet
	te II completion, cement circulated from	
teet depth	n tow/	
-	luid Management Plan 46 1 EH 7.29	.02
Chloride o	the collected from the Reserve Pit) 9,000 content ppm Fluid volume transfer) bbls
Chloride of Dewaterin	9,000 ppm Fluid volume 600 ng method used transfer	bbis
Chloride of Dewaterin	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Star Resources	bbls
Chloride of Dewaterin Location of Operator	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Name: Star Resources	bbls
Chloride of Dewaterin Location of Operator Lease Na	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Name: Star Resources me: Currier License No.: 32389	bbls
Chloride of Dewatering Location of Operator Lease Na Quarter_	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Name: Star Resources me: Currier License No.: 32389 E2 Sec. 20 Twp. 32 S. R. 18 Ea	bbls
Chloride of Dewaterin Location of Operator Lease Na	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Name: Star Resources me: Currier License No.: 32389 E2 Sec. 20 Twp. 32 S. R. 18 Ea	bbls
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	9,000 ppm Fluid volume 600 ng method used transfer of fluid disposal if hauled offsite: Name: Star Resources me: Currier License No.: 32389 E2 Sec. 20 Twp. 32 S. R. 18 Ea	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	9,000 content ppm Fluid volume 600 content ppm Fluid volume transfer of fluid disposal if hauled offsite: Name: Star Resources me: Currier License No.: 32389 E2 Sec. 20 Twp. 32 S. R. 18 Ea Comanche Docket No.: D-27668 Corporation Commission, 130 S. Market - Room 2078, ion of a well. Rule 82-3-130, 82-3-106 and 82-3-106 equested in writing and submitted with the form (see reference to well report shall be attached with this form. ALL CEM 111 form with all temporarily abandoned wells.	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	9,000 contentppm Fluid volume600 rig method usedtransfer of fluid disposal if hauled offsite: Star Resources Mame:License No.:32389 E2 Sec20 Twp. 32 S. R18 Ea ComancheDocket No.:	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	9,000 contentppm Fluid volume600 content600 content600 content600 content600 content600 content600 content	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	9,000 contentppm Fluid volume600 fig method usedtransfer of fluid disposal if hauled offsite: Name:Star Resources me: CurrierLicense No.: 32389 E2	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	ppm Fluid volume	, Wichita, 07 apply. ule 82-3-
Chloride of Dewaterin Location of Operator Lease Na Quarter County:	ppm Fluid volume	, Wichita, 07 apply. ule 82-3-

Address: P. O. Box 1009	Ap S2 N2 N2 Sec. 19 Twp. 33 S. R. 19 East West
City/State/Zip: McPherson, KS 67460	feet from \$\mathscr{G}\$ / (\hat{N}) (circle one) Line of Section
Purchaser: Duke Energy	feet from E/ # (circle one) Line of Section
Operator Contact Person: Bryan Hess	Footages Calculated from Nearest Outside Section Corner:
Phone: (<u>620</u>) <u>241-4640</u>	(circle one) (NE) SE NW SW
Contractor: Name: Mallard JV, Inc.	Lease Name: Baker Farms Well #: 2
License: 4958	Field Name: Collier Flats
Wellsite Geologist: James C. Hess	Producing Formation: Mississippi
Designate Type of Completion:	Elevation: Ground: 2023' Kelly Bushing: 2028'
New Well Re-Entry Workover	Total Depth: 5440' Plug Back Total Depth: 5377'
OilSWDTemp. Abd.	Amount of Surface Pipe Set and Cemented at 803 Feet
<u>✓</u> Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth to sx cmt.
Well Name:	Drilling Fluid Management Plan 418 1 8H 7.29.02
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	9,000 600 Chloride content ppm Fluid volume bbls
Plug BackPlug Back Total Depth	Dewatering method used transfer
Commingled Docket No.	
Dual Completion	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name: Star Resources
	Lease Name: Currier License No.: 32389
2/12/02 2/21/02 3/20/02 Spud Date or Date Reached TD Completion Date or	Quarter <u>E2</u> Sec. <u>20</u> Twp. 32 S. R. <u>18</u> East West
Recompletion Date Recompletion Date	County: Comanche Docket No.: D-27668
Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. All requirements of the statutes, rules and regulations promulgated to regulations.	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3- and geologist well report shall be attached with this form. ALL CEMENTING . Submit CP-111 form with all temporarily abandoned wells.
herein are complete and correct to the best of my knowledge.	
Signature: Deck Hear	KCC Office Use ONLY
Dick Hess. Pres. 7-9-02	
Title: Date:	Letter of Confidentiality Attached
Subscribed and sworn to before me this 9th day of July	If Denied, Yes Date: Wireline Log Received
$\frac{2002}{1000}$. $\frac{2002}{1000}$.	Geologist Report Received
Notary Public: Notary Public - State of Kansac	UIC Distribution
Notary Public: Notary Public - State of Kansas BRYAN K, HESS	
The second secon	

* * * * * *

Operator Name:	Hess Oil	Lease	Lease Name: Baker Farms			Well #:			
Sec. 19 Twp. 3	33 s. R. 19	East V West	County	y:	Comanche				
tested, time tool ope temperature, fluid red	n and closed, flowing covery, and flow rates	nd base of formations particles and shut-in pressures if gas to surface test, inal geological well site	, whether si along with t	hut-in pre	essure reached s	static level, hydros	tatic pressure	es, botton	n hole
Drill Stem Tests Take		Yes No			v	on (Top), Depth an			ample
Samples Sent to Ge	ological Survey	✓ Yes No		Nam	е		Тор	D	atum
Cores Taken Electric Log Run (Submit Copy)		Yes ✔ No ✔ Yes No							
List All E. Logs Run:									
Neutron/Density Radiation Guard									
		CASING Report all strings set	RECORD	✓ Ne		ion atc			
Purpose of String	Size Hole	Size Casing	We	ight	Setting	Type of	# Sacks		nd Percent
Conductor	Drilled 17-1/2"	Set (In O.D.) 13-3/8"	Lbs. 48#		Depth 91'	Class A	Used 100		lditives I, 3% cc
Surface	12-1/4"	8-5/8"	23#		803'	65/35 & CI A	325		i, 3% cc
Production	7-7/8"	4-1/2"	10.5	;#	5436'	Common	100		
		ADDITIONA	L CEMENTI	NG / SQL	JEEZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks	s Uşed		Type and Pe	rcent Additives		
Plug Oil Zoile								_	
Shots Per Foot		ON RECORD - Bridge Pli Footage of Each Interval Pr			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth				
3	5300'-5302'				2000 gal. 15% NE FE acid				
3	5356'-5360'				1500 gal. 15% NE FE acid & 3500 gal. 70%				
			·		nitrogen, then 2000 gal. 15% gelled acid &				
			•		5000 gal. 70% nitro., then 1000 gal. 15%				
					NE FE acid				
TUBING RECORD	Size 2-3/8"	Set At 5226 1	Packer .	At	Liner Run	Yes X No			
Date of First, Resume	d Production, SWD or E		thod	Flowin	g X Pumpii	ng Gas Lift	Oth	er (Explain)	
Estimated Production Per 24 Hours	Oil 0	Bbls. Gas	Mcf O	Wat	er B	bls. G	as-Oil Ratio		Gravity
Disposition of Gas	METHOD OF (COMPLETION			Production Inter	val			
		Open Hole	e ∨ Per	f, I	Dually Comp.	Commingled 5	300'-5360'		
(If vented, S	Sumit ACO-18.)	Other (Spe	ecify)						

JUL 10: KCC WICHITA

P.O. BOX 1009 McPHERSON, KANSAS 67460-1009 (620) 241-4640

ACO-1 Completion Form Attachment

Baker Farms #2 Approx. S/2 N/2 N/2 Section 19-33-19W Comanche County, Kansas

Sample Tops:		
FORMATION	<u>TOP</u>	<u>DATUM</u>
Heebner	4349'	(-2321')
Lansing	4549'	(-2521')
Muncie Creek Shale	4775'	(-2747')
Stark Shale	4919'	(-2891')
Hushpuckney	4970'	(-2942')
Base Kansas City	5044'	(-3016')
Marmaton	5068'	(-3040')
Novinger	5115'	(-3087')
Pawnee	5153'	(-3125')
Fort Scott	5194'	(-3166')
Cherokee Shale	5209'	(-3181')
Mississippi St Louis	5321'	(-3293')
RTD	5440'	(-3412')

DST #1: 5030'-5190'. 20-45-45-60. IF - strong blow, bottom of bucket in 15 min.; FF - blow 8" in bucket. Rec: 120' slight gas cut mud with oil stains; 150' slight gas cut mud. Pressures: IH 2649#, IF 100-101#, ISI 1610#, FF 170-171#, FSI 1536#, FH 2496#

DST #2: 5240'-5320'. 30-60-60-90. IF - strong blow, bottom of bucket in 2 min.; FF - strong blow, GTS in 7 min. 24.5 MCF/D. Rec: 190' gas cut mud. Pressures: IH 2650#, IF 91-88#, ISI 1530#, FF 105-105#, FSI 1488#, FH 2499#

DST #3: 5324'-5440'. 30-45-60-60. IF - strong blow, bottom of bucket in 1 min.; FF - strong blow, GTS in 10 min. 23 MCF/D. Rec: 300' gas cut mud. Pressures: IH 2436#, IF 92-87#, ISI 1511#, FF 114-111#, FSI 1467#, FH 2552#

PL 1.20.02

Federal Tax I.D.# 48-0727880 SERVICE PORT: RIGINAL Medicine Lodge

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

		T====	T===		T		T		1 con on. on 44	Loo Marcu
DATE 2-12-02	SEC.	33,	RANGE 19W		CALLED OF	AM AM	B:30	EATION	JOB START	1:00 VW
LEASE By Ker Fran	WELL #	・	LOCATION	21	tion 1		- 1.	MM 121	COUNTY	STATE /
OLD OR NEW (Cir			T	_		•	7-70	PPIL IVI	Comanche	1.713
OLD ORCINES (CI	icte one)	4 ==	225	LE,	to Loc				j	
CONTRACTOR	Malla		-/		OWNE	ER Ra	fail_	Pin	kum	
TYPE OF JOB					_		•			
HOLE SIZE 17	1/2	T.D.			CEMI	ENT				
CASING SIZE /	3 1/2 x	DEF	TH		_ AMOU	JNT ORI	DERED			
TUBINO SIZE			TH		_ 100	SY	Class	$A\pm 3$	1cc + 21	901
DRILL PIPE			TH							<u></u>
PRES. MAX 2c			TH The			MON #	1	20	0665	665.00
MEAS LINE			IMUM DE JOINT	·	_ COMIN POZM				_@ _@	
CEMENT LEFT IN	CSO.	/S /	20 30211		GEL	<u> </u>	2	·····	@ 10.00	20.00
PERFS.					_	RIDE _				120.00
DISPLACEMENT	12	PHS F	rshunt	a#-					@	
· · · · · ·		IPMENT							@	
	-4-								_@	
PUMP TRUCK	CRMENT	ER Can	1 Boldi	44					_@	. ———
# <i>35</i> 2	HELPER	7	Telia	"3			101	~~ · · · ·	- @ 	
BULK TRUCK		WADE	_ <i></i>			LING _		1/2-	@ 1.10	116.60
	DRIVER	Chais	hungst	5 rd	MILE	AGE V	06	x 60	.04	254.40
BULK TRUCK		Chi.	777			· · · · · · · · · · · · · · · · · · ·	er Ingel			1176.00
# 1	DRIVER		h.			10 8			TOTAL	11 20.00
	-					- 1 ,				
	RE!	MARKS:			KCCI	WiCH	TA.	SERVI	CE	
						- 1.0; ;	17.4			
Run 91 Foot	of /3	to case	`#9		DEPT	H OF JO	B 91	,		
Break Circ.	elation	1			_ PUMF	TRUCK	CHAR	GE		520.00
Ruge S Bb						A FOOT			_@	-
Ruy 100 1						AGE				18000
Displace mis				£	PLUG	·			_@	
Leave 15° C	emeat.	in Cas	ing /	2/	- —				-@	
Station 1	104.11.19	te se	Se 40	tit					_@	
										100.00
CHARGE TO:	R 1.1	PI.	1.						TOTAL	10000
			_		_					
STREET 225	N. Inf	HURET	<u> </u>	<u> 222 </u>			FLO	at equ	IPMENT	
CITY WECKE	7 77 ST	ATE # DA	5Q5 71P	67.Ja	2					
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									_@	
To Allied Cement	ting Co.	Inc.							_@	
You are hereby re			nenting cau	inment						
and furnish ceme									TOTAL	
contractor to do v										
done to satisfaction					TAX_					
contractor. I have								100	-	
CONDITIONS"					TOTA	L CHAR	.GE	181	16.00	
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								rkin'i'	EUNAME	

ALLIED CEMENTING CO., INC. 08946 Federal Tex I.D.# 49-0727860

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

							T
DATE 62-13-02	SEC.	TWP.	RANGE 194	CALLED OUT	ON LOCATION A		108 FINISH
	17	33	1			COUNTY	STATE
LEASE, Roker	WBLL#	2	LOCATION ROT	ection KS, Iz,	to MM 17		Ks.
OLD OR NEW Ci	rcle one)		225 22	to Location			
	1 0 11	U ====1			7. (.) 2	1 1	
	Höller			OWNER	Pintail R	MO319173	
TYPE OF JOB	urtace 1/4		8//	CEMENT			
	1/4 × 2	Ţ.D.	TH BOS'	AMOUNT	ODDEDED		
TUBING SIZE	75 × 2	DEF				1+3/cc + 1/4	Flacent
DRILL PIPE			7H			3/10 12/01	
TOOL			TH			T.	
	<i>O</i> O		IMUM —	COMMON	A 100_	<u> </u>	665.00
MEAS. LINE		SHO	DE JOINT	POZMIX		@	
CEMENT LEFT IN	CSG.		<u>.</u>	GEL	<u> </u>	@ <u>10.00</u>	30.00_
PERFS.				CHLORIDE		@ <i>30.0</i> o_	330.00
DISPLACEMENT	48 2	<u> 1846.</u>	Freshwater	_ Hew_	_ 225		1417.50
	EQU	IPMENT		HO-S	W SB	<u> </u>	28.40
						@	· ——
PUMP TRUCK	CEMENTE	R Larl	Poldina			@	
#c <u>=</u> \$2	HELPER	cĎaυ	Folio	HANDLING	c 75A	@	38500
BULK TRUCK		_	- • •	MILEAGE	350 X 6		RUD DO
	DRIVER	ERIC V	Brower				<u> </u>
BULK TRUCK					The second second	ጥ/ሃ ሮል ፤	3735.90
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~~~~~~	- 4		tail Cement	MILBAGE		@ 3.00	WC
Stor pumps, s	telegie	PLY .	TITL TS	PLUG Ru	pher (TR	<u>e)                                    </u>	100.00
Diplace with	Circula		Jater Bum	11/19/		@ @	
Shut in	CIPCUE	75 70	3 - 15 FIT.				
_							871.50
CHARGE TO:	24.7	21	<i>1</i>			TOTAL	<u> </u>
				<del></del>			
STREET 225	H. M.	PRKET,	STE 300	2	FLOAT I	EQUIPMENT	
CITY LIBERTY	A STA	TE KAA	1985 ZIP 6113	W-			
				1- Soft	le clote	@ 465.00	45.00
				1- Bosk	eH	@ 180.00	180.00
						@	
						@	· ———
To Allied Cemen	ting Co., I	nc.				@	
You are hereby re			nenting equipme	nt			C
and furnish ceme						TOTAL	222.00
contractor to do v				/as			
done to satisfacti	on and sup	ervision	of owner agent o	OF TAX			
contractor. I have				ND	ilo	22/1/2	
	e read az u	nderstand	Ture Lekimis a				
CONDITIONS"				TOTAL CH	LARGE		- 11
CONDITIONS"				TOTAL CH	112	3.24 IF PAI	D IN 30 DAYS
CONDITIONS"	listed on th	ne reverse	e side.	TOTAL CH DISCOUNT	112	3.24 IF PAI	D IN 30 DAYS
CONDITIONS"	listed on th	ne reverse	e side.	TOTAL CH	112	3-24 IF PAI	ID IN 30 DAYS
CONDITIONS"	listed on th		e side.	TOTAL CH	43. 160 R. L	3.24 IF PAI 49.16 ARBAN INTED NAME	ID IN 30 DAYS

ORIGINAL TREATMENT REPORT

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			_			Custom				]	Date  2-2 Lease No.		KCC VI	<del>i U</del> i	Hey
						Custome	SSS ON	Co.		1	2-2	2-05	• <i>• • •</i>	$C_{M/2}$	27
SER	VICES		L C			Legge	Baker i	Zanne		'	Leese No.		Well#	ک	
Field Order #	Stat	lon P	RAIT				Casing	11/2 Dogs	441		County Com	ANCHE	٢	State	<i>K</i> s
Type Job 4	LONGS				Ne	W W	tЦ	Formation				G-NC/) & Legal Desci	iption 335	194)	į
PIF	E DATA		PE	RFORAT	ΓING	DATA	F	LUID USED			TI	REATMEN	T RESUM	ΙE	
Casing Sike	Tubing	Size	Shots/F	t			7000	4 HA-Z			RATE	PRESS	ISIP		
Depth / 544 Volume	Depth		From		To		Pro Pady	FAL 1.43	3543	Med	K		5 Min.		
Volume	Volume	•	From		To	·	25 S	Ls 65/40	_	Min	,		10 Min.		
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Well Connect	ion Annulu	s Vol.	From		To					НН	P Used		Annulus	Pressu	10
Plug Depth	Packer	Depth	From		То		Flush			Ge	<b>Volume</b>		Total Lo	æd	
Customer Rej		less				Station Me	nager D. F.	LUTRY	-		Treater J	SE3A			
Service Units				W	в	26	36	75							
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102	44 NE H	iway	61 • P.	O. Box	86	13 • Pra	att, KS 671	24-8613 •	Phone	(62	0) 672-12	01 • Fax	(620) 67	2-53	83



## ORIGINAL

#### SALES & SERVICE OFFICE:

10244 NE Hiway 61 P.O. Box 8613 Pratt, KS 67124-8613 (316) 672-1201 (316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

#### Invoice

SALES OFFICE:

105 S. Broadway Suite #420

Wichita KS 67202 (316) 262-3699 (316) 262-5799 FAX

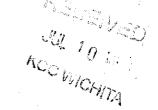
		1	nvoice					
Bill to:	HESS OIL COMPANY 225 N MARKET #300 WICHITA, KS 67202	SSTS PELEIVE JUL 10 KO KOC WICHIT	20		2/2 S		Order 4541 iption	Order Date 2/22/02  Well
AFI	E CustomerRep	Treater	W	Ba ell Type	aker Far	ms irchase Orde	r	2 Terms
	Jamie Hess	T. Seba	New V	Well				Net 30
ID.	Description		<u>UOM</u>	Que	antity	Unit Price	· · · · · · · · · · · · · · · · · · ·	Price Price
D205	AA2 (COMMON)		SK		100	\$13.06	\$1,30	6.00
D203	60/40 POZ (COMMON)		SK		25	\$7.75	\$19	3.75
C192	FLA-1, FLUID LOSS		LB		47	\$3.20	\$15	0.40
C322	GILSONITE		LB		470	\$0.55	\$25	8.50
C223	SALT (Fine)		LBS		508	\$0.35	\$17	7.80
F160	GUIDE SHOE-REGULAR	, 4 1/2"	EA	/	1.	\$125.00	\$12	5.00
F200	FLAPPER TYPE INSERT 4 1/2"	FLOAT VALVES,	EA f	15	1	\$150.00	\$15	0.00
F130	TOP RUBBER CEMENT	PLUG, 4 1/2"	EA 🔿	13	1	\$55.00	\$5.	5.00
F100	CENTRALIZER, 4 1/2"		EA 0	8	5	\$67.00	\$33	5.00
C302	MUD FLUSH	•	GAL &	<b>)</b>	500	\$0.75	\$37	5.00
E107	CEMENT SERVICE CHA	RGE	sk 🍣	2	125	\$1.50	\$18	7.50
E100	HEAVY VEHICLE MILE	AGE - 1 WAY	MI		60	\$3.00	\$18	0.00
E104	PROPPANT / BULK DEL MILE, \$200 MIN	IV SERVICES/TON	TM		348	\$1.25	\$43	5.00
R211	CASING CEMENT PUMP	ER, 5001-5500'	EA		1	\$1,850.00	\$1,85	0.00
						Sub Total:	\$5,77	 8.95
						Discount:	\$2,02	2.63
	•			$\boldsymbol{D}^{i}$	iscount	Sub Total:	\$3,75	6.32
		_		te: 5.90	%	Taxes:	\$	0.00
		<i>(T)</i>	Taxable Iten	1		Total:	\$3,75	6.32

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(316) 263-2243



#### GEOLOGICAL REPORT

BAKER FARMS #2

800' FNL, 2500' FWL of

SECTION 19 - 33S - 19W

COMANCHE COUNTY, KANSAS

Commenced:

2-12-02

Elevations: est. 2023' GR

2028' KB

Completed:

2-22-02

Surface Pipe:

8-5/8" @ 803' KB

Contractor: Mallard J.V.

Production Pipe:  $4-\frac{1}{2}$ "

One foot drilling time was kept from 4000' to rotary total depth. Ten foot drilling samples (wet & Dry) were kept from 4300' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

HEEBNER

4349 (-2321)

LANSING

4549 (-2521)

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Baker Farms #2 Page 2

MUNCIE CREEK SHALE	4775	(-2747)
STARK SHALE	4919	(-2891)
HUSHPUCKNEY	4970	(-2942)
BASE KANSAS CITY	5044	(-3016)
MARMATON	5068	(-3040)
NOVINGER	5115	(-3087)

Tan, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and oil fluorescence. (few gas bubbles!)

<u>PAWNEE</u> <u>5153 (-3125)</u>

5161-66' KB White, very finely crystalline, dense, limestone. Slight show of free oil & gas bubbles in poor intercrystalline porosity, no odor, slight stain, and fair oil fluor.

Cream, finely crystalline, dense, limestone.
Weak show of free oil & gas bubbles in poor intercrystalline porosity, no odor, some light stain, and fair oil fluor.

DRILL STEM TEST #1 5030' to 5190' KB 160' Anchor

Blow: Bottom of bucket in 15 min., 2nd openning --- 8" blow max.

Times: Open 20, Closed 45, Open 45, Closed 60.

Recovered: 500' gas

270' slightly gas cut mud w/oil spots.

Pressures: IH 2670# IF 117 - 129# ISIP 1626# FH 2575# FF 200 - 200# FSIP 1553#

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Baker Farms #2 Page 3

FORT SCOTT

5194 (-3166)

CHEROKEE SHALE

5209 (-3181)

5292-98' KB

Cream to grey, finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, slight stain, and weak fluorescence.

5304-08' KB

Cream to tan, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity and chert, weak odor, light stain, and good oil fluor. Some gas bubbles!

5311-17' KB

Detrital Zone. White to tan, very finely crystalline, dense, limestone and white to tan trip. chert. Good show of free oil in poor intercrystalline porosity & some poor "on-edge" porosity, fair odor, some light stain, and lots of good oil fluor. Some gas bubbles!

MISSISSIPPI ST. LOUIS

5321 (-3293

DRILL STEM TEST #2

5240' to 5320' KB

80' Anchor

Blow: Steady @ 24.5 MCF/d

Times: Open 30, Closed 60, Open 60, Closed 90.

Recovered: 190' gas cut mud

Pressures: IH 2811# IF 93 - 93# ISIP 1543#

FH 2657# FF 117 - 117# FSIP 1502#

5352-58' KB

Brown, finely crystalline, dense, dolomite. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and slight oil fluor.

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Baker Farms #2 Page 4

MISSISSIPPI ST. LOUIS (cont.	)
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Cream to grey, finely crystalline, dense, dolomitic, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, weak light stain, and a weak oil

fluor.

5378-82' KB Light grey, finely crystalline, limestone.

Fair show of free oil in poor intercrystalline porosity, weak odor, fair stain, and a good

oil fluor.

5392-99' KB Cream to light grey, very fine to finely

crystalline, dense, limestone. Slight shows of free oil in poor intercrystalline porosity,

no odor, slight stain, and slight oil fluor.

5418-22' KB Cream to tan, medium crystalline, dense,

dolomite. Fair show of free oil in poor to fair intercrystalline porosity, no odor,

weak stain, and fair oil fluor.

ROTARY TOTAL DEPTH 5440 (-3412)

DRILL STEM TEST #3 5324' to 5440' KB 116' Anchor

Blow: GTS second openning, 23 MCF/d down to TSTM.

Times: Open 30, Closed 45, Open 60, Closed 60.

Recovered: 300' gas cut mud

Pressures: IH 2832# IF 129 - 117# ISIP 1553#

FH 2668# FF 140 - 152# FSIP 1491#

It was decided to run a Neutron Density, porosity and Radiation Guard log.  $4\frac{1}{2}$ " 10.5# New casing was then run to produce the detrital zone on top of the Miss. Casing was cemented @ 5436' KB w/100 sx EA II cement on 2-22-02.

Sincerely,

James C. Hess Geologist