# Kansas Corporation Commission Oil & Gas Conservation Division

CIIGINAL

Form ACO-1 Juno 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31093	API No. 15 - 083-21685-0000
Name: Becker Oil Corporation	Spot Description:
Address 1: P.O. Box 1150	NE_SW_NW Sec. 18 Twp. 24 S. R. 23 ☐ East 🗹 West
Address 2:	1,650 Feet from ✓ North / ☐ South Line of Section
City: Ponca City State: OK Zip: 74602 + 1150	990 997 Feet from [] East / [7] West Line of Section
Contact Person: Clyde M. Becker, Jr.	990 997  Feet from East / West Line of Section Footages Calculated from Nearest Outside Section Corner:
. 303 . 816-2013	□ NE ☑NW □ SE □ SW
	County: Hodgeman
CONTRACTOR: License #_33793  Name: H 2 Drilling, LLC	County: Bradford Well #: 1
Wellsite Geologist: Clyde M. Becker, Jr.	Field Name: Jetport
Purchaser: Texon, LP	Producing Formation: Inola
Designate Type of Completion:	Elevation: Ground: 2453' Kelly Bushing: 2465'
	Total Depth: 4825 Plug Back Total Depth: 4697.5
	Amount of Surface Pipe Set and Cemented at: 361 Feet
Ø oil ☐ wsw ☐ swb ☐ slow	
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used?   ✓ Yes No  1606
☐ OG ☐ GSW ☐ Temp. Abd.	tf yes, show depth set: 1695 Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: 1695
Cathodic Other (Core, Expl., etc.):	feet depth to: surface w/ 250 sx cmt.
If Workover/Re-entry; Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: 9,000 ppm Fluid volume: 700 bbls
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Conv. to GSW	Dewatering method used: evaporation
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauted offsite:
Commingled Permit #:	·
Dual Completion Permit #:	Operator Name:
[] SWD Permit #:	Lease Name: License #:
[ ] ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
12/7/10 12/20/10 3/2/11	
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or co of side two of this form will be held confidential for a period of 12 months if required tiality in excess of 12 months). One copy of all wireline logs and geologist well BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for AFFIDAVIT  I am the affiant and I hereby certify that all requirements of the statutes, rules and relations promulgated to regulate the oil and gas industry have been fully complied and the statements herein are complete and correct to the best of my knowledge.  Signature: Audie M. Bedde.	egu- with  Be Confidential Rolease Dato:    Confidential Rolease Dato:   C
Description of the second of t	—
Title: President Date: 5/6/11	ALT [] 1 [ 11 Approved by: Deta: 6/10/1/

Operator Name: Bed	ke <u>r Oil Corporation (Corporation</u>	<u>on</u>	Lease	Name:	Bradford		Well #:1_		<del> </del>
Sec. 18 Twp.24	s. R. <u>23</u>	☐ East	Count	y: Hodg	eman	<del></del>			
INSTRUCTIONS: Shi timo tool opon and clo rocovery, and flow rate line Logs surveyed. A	sod, flowing and shull as if gas to surface to	in pressures, whet it, along with final c	her shut-in pro:	ssure read	ched static level,	hydrostatic pre	ssures, bottom l	hole tempe	orature, fluid
Drill Stem Tests Taken		✓ Yes □ N	lo	<b>V</b> Lo	og Formation	(Top), Depth	and Datum		Sample
,		[ˈ]Yes [ʔ]N	lo.	Nem			Тор	-	etum
Samples Sent to Geol	iogicai Sui vey	☐ Yes ☑ N		Cedar		_	1086	•	1379) 377)
Cores Taken Electric Log Run	octric Log Run			Stone Corral Anhydrite		•	1588 2492	(-2	Ť
	lectric Log Submitted Electronically Yes V No		lo	Chase Group Heebner Shale		·			
(If no, Submit Copy	"						4046	•	519) 581)
List All E. Logs Run:				Y	ng Group		4492	•	2027)
DIL, CNL/FDC	w/PE, Sonic,	Microlog		1	aton Group ikee Shale		•		.027) !171)
<del></del>		CA	SING RECORD	✓ Ne	w Used		<del></del> .	· · <del></del>	
		Report all string:			ermediate, producti	,			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)		eight i./Ft.	Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
Surface	12 1/4"	8 5/8"	23#		361' KB	common	235	3% cc,	2% gel
Production	7 7/8*	4 1/2"	10.5#		4794.49' KB	owc	100	2% gel	, 10% salt,
		. <u> </u>		- <del></del>	<u> </u>	<u> </u>		.25% FL-	160, 5# kolseal
<del>,</del>		ADDITI	ONAL CEMENT	TING / SQL	JEEZE RECORD	<u> </u>			
Purpose:	Top Bottom		# Saci	# Sacks Used Type and Perc			d Percent Additive	s	
Protect Casing Plug Back TD Plug Off Zone	4683-4690	common	75 sx						
					<u> </u>				
Shots Por Foot	PERFORATI Specify	ON RECORD - Bridg Footage of Each Interv	e Plugs Set/Type rai Perforated	9 		cture, Shot, Cem mount and Kind of	ent Squeeze Reco Material Used)	brk	Depth
3 spf	4721-4724		·		both zones,	ac/ 400 gals	7.5% MCA		
4 spf	4713-4717, Set C	IBP at 4710'						· . <u></u>	
3 spf	4701-4707, Set C	IBP at 4697.5'			ac/ 400 gals 7.5% MCA, Frac w/17,700 gals, 16,493 # sd.				
6 spf	4683-4690, sqzd.		.,	<u></u>	ac/ 300 gals 15% MCA				
6 spf	4683-4690				ac/ 250 gals 15% Ne				
TUBING RECORD:	Size: 2 3/8*	Set At: 4674'	Packer	At:	Liner Run:	Yes 🔽	No		
Date of First, Resumed	Production, SWD or EN	IHR. Producin	ing Method:	oina (	Gas Lift 🔲 🤇	Other (Explain)			
Estimated Production	Oll	Bbts. Gas	<del></del>	Wa		bis.	Gas-Oil Ratio		Gravity
Per 24 Hours	13				0				34
	ION OF CAS		METHOD	7E COVE	ETION:	<del>-</del>	PPONICT	ON INTER	VAI •
DISPOSITI	ION OF GAS:	Open Hole	METHOD (	_	y Comp. 🔲 Co	mmingled mit ACO-4)		Inola	
(If vented. Se	ıbmit ACO-18.)	Other (Spec	city)	1-001144		,		RFC	SIVCA.
			_					• • • •	

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

JUN 02 2011



TICKET NUMBER 27951
LOCATION Ocklor KS

FOREMAN Rick Ledfor

	or 800-467-8676		CEME	ENT .		v	;
DATE	CUSTOMER#	WELL NAME & N	JMBER	SECTION	TOWNSHIP	RANGE	COUNTY
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	50x 1150 IST	ATE ZIP CODE	<b>i</b> ∶	439	Jose Ga	ale	
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HORIZTION	<del></del>		1116			ATE	



### **REMIT TO**

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346

MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210 • 1-800/467-8676 FAX 620/431-0012

INVOICE

9999-100

Invoice #

23851

Invoice Date:

12/09/2010

Terms: n/30

Page

-1228.2

BECKER OIL

P.O. BOX 1150 PONCA CITY OK

(580)765-8788

74602

CASH DISCOUNT

27951

18-24S-23W

12-8-10

Part Number Description Qty Unit Price Tota 1104S CLASS "A" CEMENT (SALE) 235.00 16.0000 3760.0 1102 CALCIUM CHLORIDE (50#) 663.00 .8800 583.4 4432 8 5/8" WOODEN PLUG 1.00 92.0000 92.0 1118B PREMIUM GEL / BENTONITE 442.00 .2000 88.4 Sublet Performed Description Tota

Description Hours Unit Price Tota TON MILEAGE DELIVERY 439 1.00 497.40 497.4 CEMENT PUMP (SURFACE) 463 1.00 985.00 985.0 463 EQUIPMENT MILEAGE (ONE WAY) 30.00 4.50 135.0

> RECEIVED 1 JUN 0 2 2011 KCC WICHITA

Parts:	4523.84	Freight:	.00	Tax:	337.03	AR	5250.0
Labor:	.00	Misc:	.00	Total:	5250.02		
Sublt:	-1228.25	Supplies:	.00	Change:	.00		

Signed

Date

BARTLESVILLE; OK 918/338-0808

ELDORADO, KS 316/322-7022

EUREKA, KS 620/583-7664 GALLETTE, WY 307/686-4914 OAKLEY, KS 785/672-2227

OTTAWA, Ks 785/242-4044

620/839-5269

WORLAND, WY 307/347-4577



28693 TICKET NUMBER

620-431-9210	or 800-467-8676	i		CEMEN		PURI N		
DATE	CUSTOMER#	WEL	L NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
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SLURRY WEIGH	11/25+155	SLURRY VOL_		WATER gal/s	k	CEMENT LEFT I	n CASING /0	
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11446			4/2 80	rket	UA.	Laura.	249	24900
4129			4/2 Cer	etraliza	·/s KCC	WICHITA	4400	12200
4201	1		4/3 60	side sh			13200	7329

Ravin 3737 , AUTHORIZMON

ESTIMATED TOTAL

DATE 12-21-10

SALES TAX



#### REMIT TO

Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346

MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210 • 1-800/467-8676 FAX 620/431-0012

INVOICE

Invoice #

238822

Invoice Date: 12/23/2010 Terms: 0/0/30,n/30

BECKER OIL

P.O. BOX 1150 PONCA CITY OK

74602

(580) 765-8788

BRADFORD 1

28693

18-24-23

12-21-10

Part Number	Description	Qty	Unit Price	Tota]
1126	OIL WELL CEMENT	100.00	20.3500	2035.00
1125	40/60 LIGHT WEIGHT POZ	75.00	11.1000	832.50
1111	GRANULATED SALT (50 #)	430.00	.4000	172.00
1110A	KOL SEAL (50# BAG)	500.00	.4900	245.00
1107	FLO-SEAL (25#)	25.00	2.5000	62.5(
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.0(
. 4103	CEMENT BASKET 4 1/2"	1.00	249.0000	249.0(
4129	CENTRALIZER 4 1/2"	5.00	44.0000	220.0(
4201	GUIDE SHOE 4 1/2"	1.00	132.0000	132.0(
4226	INSERT FLOAT VALVE W/ AF	1.00	184.0000	184.0(
4404	4 1/2" RUBBER PLUG	1.00	53.0000	53.0(
4310	4 1/2" TURBOLIZZERS	4.00	69.0000	276.0(
Sublet Performed	Description			Tota:
9999-100	CASH DISCOUNT			-1643.20
Description		Hours	Unit Price	Tota:
460 MIN. BULK DELI	VERY	1.00	390.00	390.00
463 EQUIPMENT MILE	AGE (ONE WAY)	30.00	4.50	135.00
463 SINGLE PUMP		1.00	2730.00	2730.00

.00 Tax: 369.59 AR 4961.00 Freight: 6942.35 Parts: 6942.39

.00 Total: Labor: .00 Misc:

.00 Change: -1643.20 Supplies: 

JUN 02 2011

Signed

BARTLESVILLE, OK

918/338-0808

ELDORADO, KS 316/322-7022

EUREKA, KS 620/583-7664

GILLETTE, WY 307/686-4914 OAKLEY, KS 785/672-2227 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269

307/347-4577

### **BECKER OIL CORPORATION**

CLYDE M. BECKER, JR.
PRESIDENT
11299 FOXTON RO.
MAILING ADDRESS:
P.O. BOX 1550
CONIFER, COLORADO 80433
PHONE/FAX (303) 816-2013

HOME OFFICE 222 E. GRAND, SUITE M-101 P.O. BOX 1150 PONCA CITY, OKLAHOMA 74602 (580) 765-8788 FAX (580) 765-1746

ACO-1 Pg. 3 Becker Oil Corporation # 1 Bradford C/ NE SW NW Section 18-24S-23W

## Formation Tops Continued:

Inola	4681	(-2216)
Base Inola (Top Cgl)	4690	(-2225)
Miss	4726	(-2261)
Miss Warsaw	4771	(-2306)
TD (Drlr.)	4725	(-2360)
TD (Log)	4726	(-2361)

#### **Drill Stem Tests**

DST #1 2592-2650, (Winfield)- times 20/30/30/45, IF: weak blow, built to bottom in 18", FF: weak blow, built to 6", rec. 180' MCSW (cl 124,000 ppm), IHP 1276, IFP 29-59, ISIP 445#, FFP 64-92, FSIP 436, FHP 1268

DST #2 4683-4735 (Cherokee)- times 20/35/45/80, IF: weak blow, built to btm. in 7", ISI: 4" blowback, FF: Weak, built to btm. in 14", rec. 800' GIP, 655' oil, 34 gravity, IHP 2312, IFP 27-93, ISIP 1362, FFP 126-230, FSIP 1301, FHP 2276

DST #3 4733-4795 (Miss)- times 15/20/15/20, IF: very weak blow, 1" in 15", FF: no blow, rec. 15' mud, IHP 2275, IFP 24-40, ISIP 1237, FFP 46-61, FSIP 1087, FHP 2271

DST # 4 4677-4728 (Cherokee)- times 10/30/30/90, IF Strong blow, built to btm. in 10", ISI: no Blow, FF: Built to btm. in 20", rec. 360' GIP, 290' oil, IHP 2386, IFP 36-64, ISIP 1373, FFP 74-154, FSIP 1374, FHP 2212

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KCC WICHITA

# **BECKER OIL CORPORATION**

CLYDE M. BECKER, JR.
PRESIDENT
11299 FOXTON RD.
MALING ADDRESS:
PO. BOX 1550
CONIFER, COLORADO 80433
PHONE/FAX (303) 816-2013

HOME OFFICE 222 E. GRAND, SUITE M-101 P.O. BOX 1150 PONCA CITY, OKLAHOMA 74602 (580) 765-9788 FAX (580) 765-1746

Geological Report **Becker Oil Corporation** # 1 Bradford c/ NE SW NW Section 18-24S-23W Hodgeman County, Kansas Spud 12/7/10 Reached TD . 12/20/10 Gr. Elev. 24531 KB Elev. 2465' Csg.: 8 5/8" set at 361. KB, cmt. w/ 235 sx 4 1/2" set at 4749.49', cmt. w/ 100 sx Port Collar at 1695', cmt. w/ 250 sx **Formation Tops:** Dakota SS 446' (+2019) Cheyenne SS 596' (+1869) Cedar Hills SS 1086' (+1379) Stone Corral Anhydrite 1588' (+877) Wellington Group 2010' (+455) Chase Group 2486' (-21) Krider 2523' (-58) Winfield 2587 (-122) Towanda 2652' (-187) Ft. Riley 2702 (-237) **Florence** 2760' (-295) Council Grove 2878' (-413) Root Shale 3325' (-860) Heebner Shale 3984' (-1519) **Lansing Group** 4046' (-1581) BKC 4468' (-2003) Marmaton Group 4501' (-2036) Pawnee 4550' (-2085) Ft. Scott 4608' (-2143) Cherokee Shale 4636 (-2171)Inola 4681' (-2216) Base Penn Ls. (top Cgl) 4690' (-2225). Mississippian 4736' (-2271)Miss. Dolomite 4770' (-2305)T.D. (Drlr.) 4825' (-2360)TD (Log) 4826' (-2361)

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Geological Report Becker Oil Corporation # 1 Bradford Page 2

**Drill Stem Tests** 

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DST #2 4683-4735 (Cherokee)- times 20/35/45/80, IF: weak blow, built to btm. in 7", ISI: 4" blowback, FF: Weak, built to btm. in 14", rec. 800' GIP, 655' oil, 34 gravity, IHP 2312, IFP 27-93, ISIP 1362, FFP 126-230, FSIP 1301, FHP 2276

DST #3 4733-4795 (Miss)- times 15/20/15/20, IF; very weak blow, 1" in 15", FF: no blow, rec. 15' mud, IHP 2275, IFP 24-40, ISIP 1237, FFP 46-61, FSIP 1087, FHP 2271

DST #4 4677-4728 (Cherokee)- times 10/30/30/90, IF Strong blow, built to btm. in 10", ISI: no Blow, FF: Built to btm. in 20", rec. 360' GIP, 290' oil, IHP 2386, IFP 36-64, ISIP 1373, FFP 74-154, FSIP 1374, FHP 2212

The #1 Bradford ran very close structurally to projections from the seismic. The Krider came in at a datum of (-58), two foot low to the #1 Jetmore-Bradford, with good porosity in the upper and lower zones. A 55 unit gas kick corresponded to the upper Krider and a 16 unit kick to the lower Krider. Porosity was developed in the lower Winfield, our producing zone in the #1 Jetmore-Bradford, 1475 feet to the northeast. DST #3 was run for pressure information to get an idea of drainage from the #1 Jetmore-Bradford. Surprisingly the test recovered no gas and 180' of muddy saltwater. Final shut-in pressure was 436 PSI vs. 629 PSI in the #1 Jetmore-Bradford, indicating drainage as well as water encroachment.

At 4402' the rotary table broke with a two day delay waiting for repairs. No shows were seen in the Lansing-Kansas City or Marmaton zones.

The first show seen in the # 1 Bradford was in the lower Cherokee Conglomerate at 4701'. A four foot drilling break had a slight gas kick. Samples showed a few pieces of medium to coarse grained sandstone with poor to good porosity with good odor and cut. Two other drilling breaks were seen with only loose quartz grains and chert in the RECEIVED

JUN 02 2011

Geological Report
Becker Oil Corporation
# 1 Bradford
Page 3

samples. DST # 2 was run to test the conglomerate, recovering 655' of oil with declining shut-in pressures. The Inola was also in the test interval, the significance of which I did not realize at the time.

The top of the Mississippian came in at 4736, with the top of the dolomite at 4770 (-2305), 19 foot high to the Rupp # 1 Bradford (NE NW 18-24S-23W) which had tested 480' of HO&GCM and 430' of gas and mud cut oil from the top 6' of the dolomite. Samples showed slightly sucrosic dolomite with no visible porosity and no show. We ran DST # 3 to test it, recovering only 15 feet of mud. Good dolomitic porosity with no show was finally developed at 4797' (-2332), just below the oil-water contact. It would seem that the upper 27 feet of the dolomite was not as extensively dolomitized in the # 1 Bradford as it was in the adjacent wells and therefore not porous.

Due to the drop in shut-in pressures on our test of the lower Cherokee, we decided to test it again to rule out a limited reservoir. Running shorter flow times and longer shut-in times the test recovered 290' of oil with higher shut-in pressures that the first test. The shut-in curves on both tests were oddly shaped with a fast build-up and breakover as in a good reservoir but still building at an unusual rate at the end of the shut-in periods. We would learn the significance of this later as well.

Pipe was run to test the basal Penn. Conglomerate. After perforating and acidizing the Conglomerate zones we were getting a slight amount of water. Thinking that the zones had been damaged we ran a small frac and recovered more water with no show of oil. Despite the good show of oil in the samples it appeared the oil had come from somewhere else.

The Inola, which is the basal Pennsylvanian limestone member had drilled at four minutes per foot with no gas kick or porosity. However on the repeat section of the microlog it showed separation indicating permeability, with very little separation on the main section. There was also mudcake built up at the base of the zone. Feeling that the Inola possibly had fracture porosity that had given up the oil, we set a bridge plug and perforated it. Fill-up over the weekend was 1800 feet of oil. We acidized the zone with 300 gallons but broke through to the underlying conglomerate zones, recovering 90% water afterwards. We decided to squeeze the Inola perfs and try again.

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After squeezing and re-perforating the Inola there was no fluid entry. We decided to acidize again with 300 gallons but instead of pressuring up to a breakdown point we eased the acid in by pressuring to 200 PSI, letting it bleed down to 150 PSI then back up to 200 PSI. After a day of this the zone broke to 30 PSI that evening and we eased the rest of the acid in the next day. Somehow this worked and we recovered all oil and began pumping at 12.5 BOPD. In the first two months of production the well has shown very little decline.

Clyde M. Becker, Jr.

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