

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5360Name: Brandt Production Co., Inc.Address: 107 N. Market, #914City/State/Zip Wichita, KS 67202

Purchaser: _____

Operator Contact Person: Earl O. BrandtPhone (316) 267-4335Contractor: Name: Brandt Drilling Co., Inc.License: 5840Wellsite Geologist: Earl O. Brandt

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ SWD ☐ SOW ☐ Temp. Abd.☐ Gas ☐ ENHR ☐ SIGW☒ Dry ☐ Other (Core, WSW, Expt., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ PSTD☐ Cemented ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) Docket No. _____4/2/93 4/22/93 4/22/93

Spud Date _____ Date Reached TD _____ Completion Date _____

API NO. 15- 191 22227County SumnerSW SW NE NE Sec. 14 Twp. 35 Rge. 4 ☒ E ☒ W2970 Feet from ☒ (circle one) Line of Section2310 Feet from ☒ (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Baker Well # #1Field Name wildcatProducing Formation D & AElevation: Ground 1167 KB 1179Total Depth 5228 PSTD _____Amount of Surface Pipe Set and Cemented at 334 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan 6-2 93
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

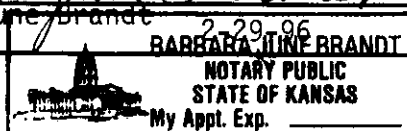
Lease Name _____ License No. _____

Quarter Sec. _____ Twp. _____ S Rge. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas, 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Earl O. BrandtTitle President Date 5/18/93Subscribed and sworn to before me this 18 day of May 19 93.Notary Public: Barbara June BrandtDate Commission Expires 2-29-96

K.C.C. OFFICE USE ONLY	
F	Letter of Confidentiality Attached
C	☒ Wireline Log Received
C	☒ Geologist Report Received
Distribution	
☒ KCC	☐ Sub/Rep
☐ KGS	☐ Plug
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SIDE TWO

Operator Name Brandt Production Company, Inc. Lease Name Baker Well # 1
 Sec. 14 Twp. 35 Rge. 4 ☒ East ☒ West
 County _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.) (see attached)	☒ Yes ☐ No	☒ Log	Formation (Top), Depth and Datum	☒ Sample
Samples Sent to Geological Survey	☒ Yes ☐ No	Name	Top	Datum
Cores Taken	☐ Yes ☒ No	Kansas City	3384	(-2704)
Electric Log Run (Submit Copy.)	☒ Yes ☐ No	Base Kansas City	4071	(-2892)
List All E.Logs Run:		Mississippi	4524	(-3345)
Gamma Guard		Kinderhook Shale	4911	(-3732)
Neutron=Density/Caliper		Simpson Dolomite	4989	(-3810)
		Simpson Shale	5009	(-3830)
		Arbuckle	5203	(-4024)
		Rotary Total Depth	5228	(-4049)

CASING 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	12 1/4	8 5/8	20#	334	60-40 poz	175	3%cc1

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run	☐ Yes ☐ No		
Date of First, Resumed Production, SMD or Inj.			Producing Method					
NA			☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
 (If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____



BRANDT PRODUCTION COMPANY, INC.

107 N. MARKET • SUITE 914
WICHITA, KANSAS 67202

ORIGINAL

May 18, 1993

● PHONE (316) 267-4335

#1 Baker API# 191 22227
SW SW NE Sec. 14-35S-4W
Sumner County, Kansas

DST#1 4525-43 "30-45-30-60" Strong blow through out
Gas to surface final shut in
Rec. 30' gas cut mud
FP 37/38 41/41 BHP 1534/1468 Temp. 120 degrees

DST#2 4994-5029 "30-45-30-60"
Weak blow building to strong blow at the end of "30"
and continuing through out test. Recovered 540' gas in
pipe - 30 sli oil and gas cut mud plus 6" of free green
oil (47degrees gravity)
FP 41/41 46/46 BHP 361/368 Temp. 128 degrees

DST#3 5066-5076 "30-45-30-45"
Very Weak blow recovered 90' drilling mud
FP 69/69 78/78 BHP 166/172 Temp. 128 degrees

DST#4 5026-62 "30-45-30-45" (Straddle test)
Weak initial flow weak final flow
Recovered 30' sli. oil cut mud
FP 53/53 53/53 BHP 74/65 Temp. 128 degrees

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Wichita, Kansas



BRANDT PRODUCTION COMPANY, INC.

107 N. MARKET • SUITE 914
WICHITA, KANSAS 67202

ORIGINAL

● PHONE (316) 267-4335

GEOLOGICAL REPORT
BRANDT PRODUCTION COMPANY, INC.
#1 BAKER SW SW NE SECTION 14-35S-4W
SUMNER COUNTY, KANSAS
APRIL 26, 1993

The following is my Geological Report on the above well. The test was under supervision from 2250' to total depth. Samples were examined from 1500' to total depth. A set of samples from 4500' to 5228' have been placed on file with the Kansas State Geological Survey. There were four drill stem tests taken during the drilling of this test. One in the Mississippi and three in the Simpson. A suite of logs consisting of a Gamma Guard and Neutron Density Porosity with Caliper was run from 300' to total depth. The well was plugged on April 23, 1993, according to the requirements of the Kansas Corporation Commission.

Operator	Brandt Production Company, Inc.
Contractor	Brandt Drilling Company, Inc.
Location	SW SW NE Section 14-35S-4W
Elevation	1179 K.B. 1167 Gr.
Surface Casing	8 5/8" at 334'/175 sacks
Drilling Commenced	4/2/93
Drilling Completed	4/22/93
Testing Program	4 Drill Stem Tests (Ricketts)
Logging Program	Guard Neutron Density/Caliper (Log Tech)
Rotary Total Depth	5228'
Results	D & A

LOG TOPS:

Topeka	2593	(-1414)
Elgin	2938	(-1759)
Heebner	3026	(-1847)
Toronto	3099	(-1920)
Douglas Shale	3193	(-2014)
Iataa	3363	(-2184)
Stalnaker Sand Zone	3400	(-2221)
Stalnaker Sand	3515	(-2334)
Base Stalnaker Sand	3634	(-2455)
Upper Layton	3788	(-2609)
Lower Layton	3858	(-2679)
Kansas City	3884	(-2705)
Base of Kansas City	4071	(-2892)
Pawnee	4144	(-2965)
Fort Scott	4248	(-3069)

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Cherokee	4288	(-3109)
Mississippi	4524	(-3345)
Kinderhook	4911	(-3732)
Chattanooga	4976	(-3797)
Simpson Dolomite	4989	(-3810)
Simpson Sand	5009	(-3830)
Log Total Depth	5102	(-3923)
Arbyckle (Sample Top)	5203	(-4024)
Rotary Total Depth	5228	(-4049)

Note: All references to zones and tests corrected to log measurement.

ZONES OF INTEREST:

Lower Layton Sand 3858' (-2679)

3858-68 Sand gray very fine silty to shaley in part some fine-medium friables slight porosity sand. No show.

Mississippi 4524' (-3348)

4524-35 Chert white fresh to partly to well devtrified, grading into dark brown finely sucrosic cherty dolomite. Poor porosity - fair scattered stain good fuorescence very weak odor gas breaking out. CFS at 4535' 1 1/2 hours

4535-43 Chert white-gray brown, fresh, glassy, mottled siliceous in part, some slightly to well devitrified grading into brown finely sucrosic cherty dolomite. Very poor porosity, poor-fair scattered stain. CFS at 4543' 1 1/2 hours (Covered by DST#1)

DST #1 4525-43 "30-45-30-60"

Strong blow through out - gas to surface on final shut in.

Recovered 30' gas cut mud

FP 37/38 41/41 BHP 1534/1468 HH 2315/2293 temp.120 degrees

Simpson Dolomite 4989 (-3810)

4989-4998 Lime dark brown micro crystalline, dense.

4998-5004 Dolomite brown, medium granular, soft mealy to slightly sandy no porosity. No show.

Simpson Sand 5009 (-3830)

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5009-17 and 5026-30 Sand fine, veryfine, clear sub-rounded friable, fair porosity - some medium grained at base. Scattered light stain, fair fluorescence - no free oil - some black taray residue in medium grained sand. CFS at 5013, 5023 and 5029 (Covered by DST#2)

DST #2 4994 - 5029 "30-45-30-60"

Weak blow building to strong blow "30" and through out test. Recoverd 540' gas in pipe and 30' slightly gas and oil cut mud and 6" of free green oil (47 degrees gravity) FP 41/41 46/46 BHP 361-368 HH 2448/2432 Temp. 128 degrees

Second Simpson Sand 5033 (-385)

5033-5053 Sand fine-medium, clear sub angular, poorly sorted, quartzic to very friable, some medium grain glassy fair porosity. Scattered light stain and good fluorescence, becoming medium-coarse near bottom, sub angular quartzic and silty in part with dark residual inclusions. Fair to good porosity good scattered fluorescence. CFS at 5062' (Covered by DST#4 Straddle Test)

DST#4 5026-62 30-45-30-45 (S.P.)

Weak blow initial flow - weak blow final flow - recovered 30' slightly oil cut mud. FP 53/53 53/53 BHP 74/65 2558/2537 Temp. 128 degrees

Simpson Sand 5066 (-3887)

Sand, medium sub rounded, very friable, well sorted - fair to good porosity, even light staining - very good fluorescence, odor and good taste - light dolomite cementation. CFS at 5074' 1 1/2 hours

These samples looked very impressive, however log appears to be shaley - possible radio active material in sand. (Covered by DST #3)

DST#3 5066 - 5076 30-44-30-45

Very weak blow - recovered 90' drilling mud FP 69/69 78/78 BHP 166/192 2542/2542 Temp. 128 degrees

Ran Logs at 5100 RTD 5102 LTD

Second Simpson Sand indicated 12' of cross over on the porosity logs accompanied by some mud cake.

Calculations through this zone as shown below:

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Interval	Density	Neutron	Water Saturation
5032-23	9	7	52%
5034-36	8	7	55%
5036-38	9	7	55%
5038-40	9	9	57%
5040-42	10	7	52%
5042-44	9	7	55%
5044-46	7	7	60%

In view of the above encouraging facts plus the favorable sample shows the election was made to straddle test this zone and hence DST #4 was run

Arbuckle Dolomite 5203 (-4024) Sample Pick

5203-10 Dolomite tan fine-medium crystalline to slightly sucrosic and sandy poor inter crystalline porosity. No show. No fluorescence.

5210-28 Dolomite light tan fine crystalline to finely sucrosic, poor-fair inter granular porosity. No show. No fluorescence.

Discussion:

The above captioned test ran structurally favorable from inception. With respect to the key well namely Clements Energy #1 Baker NW SW SW Section 14 (approximately 1/2 mile SW) our test was 21' high on the Kansas City, 29' high on the Mississippi 31' high on the Simpson and 33' high on top of the Arbuckle Dolomite. A strong subsurface anomaly can ably be demonstrated as a result of the structural position of this test. Shows were encountered in the Simpson Sands, especially in the form of fluorescence and where intense fluorescence was demonstrated through out the entire Simpson Sand section. Stain odor and a strong petroleum taste accompanied the fluorescence. Only a trace of free oil was detected, however in view of the 47 degree gravity, as determined by the test of the free oil recovered on DST#2, this is highly understandable.

It appears that all of the necessary criteria for production was met during the drilling of the test except the presence of permeability in the reservoir rocks. Permeability was ably demonstrated in the Clements #1 Baker NW SW SW Section 14 in the Second Simpson Sand interval where this zone was

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tested for 7 barrels fluid per hour (7%oil) following an acid treatment. Consequently since a DST of this interval on the Brandt #1 Baker recovered only 30' of slightly oil cut mud with extreme low bottom hole pressures, it would suggest that between these two holes the optimum conditions could be encountered; i.e. a favorable structural position along with favorable reservoir conditions might yet be encountered.

Conclusion:

In view of the above discussed conditions the election was made to abandon the test at a depth of 5228' a 25' penetration into the Arbuckle Dolomite. The test was plugged according to the requirements of the Kansas Corporation Commission on April 23, 1993.

Respectfully submitted,



Earl O. Brandt
Registered Professional Geologist

EOB/dmm

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CONSERVATION DIVISION
Wichita, Kansas

FIELD TICKET NO. 3301

INVOICE NO 383

DATE 4-27-93

UNITED CEMENTING
& ACID CO., INC.

(316) 321-4680

REMIT TO

BOX 712

EL DORADO, KANSAS 67042

ORIGINAL

Brandt Production Co., Inc.
107 North Market Suite 914
Wichita KS 67202

FULLY INSURED

DATE OF JOB	COUNTY	STATE	LEASE	WELL NO.
4-23-93	Sumner	KS	Baker	#1
SIZE CASING	DEPTH OF WELL	DEPTH OF JOB	PLUG DEPTH	PRESSURE
	5228'			
Plugging.				
175 sax	60-40 Poz Mix Cement	(1) Cementing unit		450.00
4 sax	Gel	@ 4.00 per sax		700.00
	Bulk charge	@ 8.00 per sax		32.00
	Drayage	@ .80 x 179 sax		143.20
		@ 9-T x .60 x 77 mi.		415.80
SALES TAX				\$ 102.72
TOTAL				\$1,843.72

TERMS: NET 30 DAYS FROM INVOICE DATE
PLEASE PAY FROM THIS INVOICE

MAX. PRESS. _____

PLUG DEPTH _____

PLUG USED _____

PKER DEPTH _____

TIME FINISHED 12:30 PMREMARKS: 175 sax 60-40 Pozmix35 sax 522835 sax 100035 sax 10025 sax 38525 sax 6010 sax 17H

EQUIPMENT USED

NAME Elmer

UNIT NO. _____

NAME Chet

UNIT NO. _____

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CEMENTER OR TREATER

OWNER'S REP.