

ORIGINAL

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

API NO. 15- 093- 21652-0000

County Kearny
- - - SE Sec. 3 Twp. 21S Rge. 38 X E
W

Operator: License # 5249

Name: Osborn Heirs Company

Address P. O. Box 39

City/State/Zip Kendall, Kansas 67857

Purchaser: Duke Energy

Operator Contact Person: Art Childers

Phone (316) 373-2701

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: None

Designate Type of Completion

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conv. to Inj/SWD
Plug Back _____ PSTD
Commingled _____ Docket No. _____
Dual Completion _____ Docket No. _____
Other (SWD or Inj?) Docket No. _____

9-30-99 10-2-99 11-01-99
Spud Date Date Reached TD Completion Date

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WICHITA, KANSAS
JAN 21 2000

1,320 Feet from (5)N (circle one) Line of Section

1,320 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Marion Well # 1B

Field Name Hugoton

Producing Formation Hugoton Chase

Elevation: Ground 3,380' KB 3,385'

Total Depth 2,913' PSTD 2,854'

Amount of Surface Pipe Set and Cemented at 208 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2,913'
feet depth to surface w/ 550 'sx cmt.

Drilling Fluid Management Plan AH. 2, 2-3-00 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 22,000 ppm Fluid volume 2,600 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market Room 2078, 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 Arthur B. Childers

Title Engineer Date 1-20-2000

Subscribed and sworn to before me this 20 day of Jan 2000

Notary Public Becky Grusing

Date Commission Expires 4-17-02

K.C.C. OFFICE USE ONLY
F _____ Letter of Confidentiality Attached
C Wireline Log Received
C _____ Geologist Report Received

Distribution
 KCC _____ SWD/Rep _____ NGPA
 KGS _____ Plug _____ Other (Specify)

BECKY GRUSING
Notary Public - State of Kansas
My Appt. Expires

Form ACO-1 (7-91)

X

Operator Name Osborn Heirs Company SIDE TWO Lease Name Marion Well # 1B

Sec. 3 Twp. 21S Rge. 38 East West

County Kearny

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 Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: SDL - DSN HRIL CSNG

Log **Formation (Top), Depth and Datums** Sample

Name	Top	Datum
Herrington - Krider	2,606'	+ 779'
Winfield	2,650'	+ 735'
Towanda	2,685'	+ 700'
Fort Riley	2,728'	+ 657'

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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"	23	208'	Premium Plus	200	2% CaCl2 and 1/4 #/sx. flocele
Production	7-7/8"	5-1/2"	14	2,912'	Halliburton Lite	450	1/4 #/ sack flocele
					Premium Plus	100	1% CaCl2, 0.6% Halad - 322, and % #/sx. flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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
4	Winfield 2,658' to 2,666'	Fort Riley 2,732' to 2,736' and 2,743' to 2,747' acidized with 1000 gallons 7-1/2% HCl.
4	Towanda 2,693' to 2,696'	Fractured with 12,500 gallons 70 quality N2 foam and 12,000# 16-30 sand.
4	Towanda 2,700' to 2,703'	Winfield and Towanda acidized with 2,500 gallons
4	Fort Riley 2,732' to 2,736'	7-1/2% HCl. Fractured with 21,600 gallons 70 quality and 6,000 gallons 65 quality N2 foam
4	Fort Riley 2,743' to 2,747'	With 60,200# 12-20 sand

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	2,772	----	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method			
11-12-99		Pumping		Flowing Pumping Gas Lift Other (Explain)	
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water
	-----		200		144

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled - 2,658' - 2,747' overall

(If vented, submit ACO-18.) Other (Specify) _____



JOB LOG 239-5

TICKET #

TICKET DATE

ORIGINAL

REGION North America	NWA/COUNTRY	BDA / STATE	COUNTRY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	335							Call out
	451							on location waiting on test Equip
	703							Run 5 1/2 Lsg (5 Joints)
	727							Hook to circulate
	810							Hook to cement
	814							Pressure Test
	822	5.5	47					Pump out
	827							Start down deep plug
	836	3	10			1200		Displace out
	844					20-50		Land Plug
	1900							Cement out

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CONSERVATION DIVISION
Wichita, Kansas



JOB SUMMARY 4239-1

TICKET # 17-152 ORIGINAL

REGION North America	NW/COUNTRY	BDA / STATE	COUNTY
IBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
EASE / WELL #	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
K. Carr 115							
D. W. Carr 105							
S. H. Carr 105							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
4239-1							
64215							

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
12/31	9:30 AM	9:30 AM	1:00 PM	
12/31				

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers	2	
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing						
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Freat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
VE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Selling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
TOTAL		TOTAL		

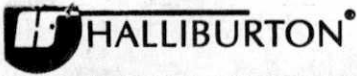
ORDERED _____ HYDRAULIC HORSEPOWER Avail. _____ Used _____
 TREATED _____ AVERAGE RATES IN BPM Disp. _____ Overall _____
 FEET 400.44 CEMENT LEFT IN PIPE Reason Shut-in

RECEIVED CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	STATE CORPORATION COMMISSION	ADDITIVES	YIELD	LBS/GAL
	100						
JAN 21 2000							
CONSERVATION DIVISION Wichita, Kansas							

Circulating _____	Displacement _____	Preflush: _____	Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____	Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____	Gal - BBI _____	Disp: BBI - Gal _____
Shut In: Inst. nt _____	5 Min _____ 15 Min _____	Cement Slurr _____	Gal - BBI _____	
		Total Volume _____	Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LO 239-5

TICKET # ORIGINAL TICKET DATE

REGION North America	NWA/COUNTRY	BDA / STATE	COUNTY
WBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
EASE / WELL #	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1801	2:30							Callal out for 50k
1830								1000 gal 1000 gal
								Start 50k (1000 gal)
1851								Call out for 100k
1903								1000 gal 1000 gal
								1000 gal 1000 gal
1911		16.5				330		Run 450k 1000 gal 1000 gal
1922		17.5				100		Run 100k 1000 gal 1000 gal
1943								Stop down 1000 gal
1946								Run 1000 gal
1955		18						Run 1000 gal 1000 gal
2007		18				200		6000 gal 1000 gal
2018		18						Run 1000 gal
2028		18						Run 1000 gal - 1000 gal
2035		18						Run 1000 gal

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JAN 21 2000

CONSERVATION DIVISION
Wichita, Kansas

656615 CMT 100K ✓
1775A TO PIT

REGION North America		NWA/COUNTRY <u>USA</u>		BDA / STATE		COUNTY <u>Logan</u>	
IBU ID / EMP #		EMPLOYEE NAME		PSL DEPARTMENT			
LOCATION <u>15716</u>		COMPANY <u>AMC</u>		CUSTOMER REP / PHONE <u>115-621-1000</u>			
TICKET AMOUNT		WELL TYPE		API / UWI #			
WELL LOCATION <u>L-011</u>		DEPARTMENT		JOB PURPOSE CODE <u>25</u>			
LEASE / WELL #		SEC / TWP / RNG					

LES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	LES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	LES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	LES EMP NAME/EMP#(EXPOSURE HOURS)	HRS
<u>11516</u>		<u>11516</u>		<u>11516</u>		<u>11516</u>	
<u>11516</u>		<u>11516</u>		<u>11516</u>		<u>11516</u>	

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<u>4725</u>	<u>1.1</u>						
<u>4726</u>	<u>1.1</u>						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Backer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Gollar <u>11516</u>	<u>1</u>	<u>AMC</u>
Float Shoe		
Guide Shoe <u>11516</u>	<u>1</u>	<u>AMC</u>
Centralizers <u>11516</u>	<u>5</u>	<u>AMC</u>
Bottom Plug		<u>AMC</u>
Top Plug <u>11516</u>	<u>1</u>	<u>AMC</u>
Head <u>11516</u>	<u>1</u>	<u>AMC</u>
Packer <u>11516</u>	<u>1</u>	<u>AMC</u>
Other <u>11516</u>	<u>1</u>	<u>AMC</u>

MATERIALS			
Treat Fluid	Density	Lb/Gal	
Disp. Fluid	Density	Lb/Gal	
Prop. Type	Size	Lb.	
Prop. Type	Size	Lb.	
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	ln	
VE Agent	Gal.	ln	
Fluid Loss	Gal/Lb	ln	
Selling Agent	Gal/Lb	ln	
Fric. Red.	Gal/Lb	ln	
Breaker	Gal/Lb	ln	
Blocking Agent	Gal/Lb		
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<u>10-27-99</u>	<u>10-27-99</u>	<u>12-30-99</u>	<u>11-05-99</u>
TIME	<u>1800</u>	<u>2200</u>	<u>0310</u>	

WELL DATA						
NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW	
Casing <u>RI</u>	<u>1505</u>	<u>5.11</u>	<u>14</u>	<u>2912</u>		
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<u>11516</u>
				<u>11516</u>
				<u>11516</u>
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER Avail.	Used
TREATED	AVERAGE RATES IN BPM Disp.	Overall
FEET <u>113</u>	CEMENT LEFT IN PIPE Reason	<u>55</u>

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	<u>450</u>	<u>11516</u>			<u>2.58</u>	<u>112</u>
1	<u>100</u>	<u>11516</u>		<u>40% Fluicrete .675/44/44 322</u>	<u>1.23</u>	<u>112</u>

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Circulating _____ Displacement _____
 Breakdown _____ Maximum _____
 Average _____ Jan 21 2000 _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____