

STATE OF KANSAS.
STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-033-20406-0000

LEASE NAME Unruh "C"

WELL NUMBER 2

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div. C NW NW Ft. from S Section Line
office within 30 days.

Ft. from E Section Line

LEASE OPERATOR Graham Michaelis Corporation

SEC. 2 TWP. 31 SRGE. 18W (E) or (W)

ADDRESS P.O. Box 247 Wichita, Kansas 67201

COUNTY Comanche

PHONE # (316) 264-3394 OPERATORS LICENSE NO. 5134

Date Well Completed _____

Character of Well Oil

Plugging Commenced 4-15-93

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

Plugging Completed 4-19-93

The plugging proposal was approved on 4-15-93 (date)

by Steve Middleton (KCC District Agent's Name).

Is ACO-1 filed? _____ If not, is well log attached? Yes (from Cities Service records)

Producing Formation Mississippi Depth to Top _____ Bottom T.D. 5120

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS | CASING RECORD

Formation	Content	From	To	Size	Put In	Pulled out
				13 3/8	308	0
				8 5/8	962	0
				4 1/2	5119	3230

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from ___ feet to ___ feet each set.
Pump 20 sks. of cement & 1 sk. of hulls to 4700

Pump 50 sks. of cement from 1000 to 900

Pump 40 sks. of cement from 600 to 500

Put 10 sks. of cement from 40 to 0 Cut off & cap 8 5/8 4' below ground level

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor Sargent's Casing Pulling Service License No. 6547

Address P.O. Box 506 Liberal, Kansas 67905-0506

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: Graham Michaelis Corporation

STATE OF Kansas COUNTY OF Secgwick, ss.

MAY - 3 1993

Jack L. Yinger, Vice President (Employee of Operator) or (owner) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

(Signature) Jack L. Yinger

(Address) P. O. Box 247, Wichita, KS 67201

SUBSCRIBED AND SWORN TO before me this 10th day of May 19 93

Aldine M. Johnson Notary Public

RECEIVED
MAY 14 1993
5-14-93

My Commission Expires: _____



CONSERVATION DIVISION
Wichita, Kansas
Form CP-4
Revised 05-88

GABBERT-JONES, INC.
 WICHITA, KANSAS
 DRILLERS' WELL LOG

Unruh "C" #2
 Sec 2-31S-18W
 Comanche County Kansas

Commenced: 4-5-81

Completed: 4-19-81

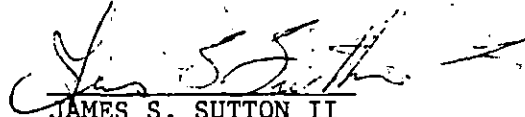
OPERATOR Cities Service Co.

Depth		Formation	Remarks
From	To		
0	672	Clay-Sand-Redbed	Ran 8 jts of 48# 13 3/8" csg set 308' Cemented w/300 sks 50/50 Pos 2% CC on Bottom - 100 sks 50/50 F 2% CC on Top PD @ 8:00 p.m. 4-6-
672	1100	Redbed-Sand-Clay	
1100	1510	Shale	
1510	1890	Shells-Shale	
1890	2496	Shale	Ran 24 jts of 24# 8 5/8" csg set 962 Cemented w/500 sks 50/50 Posmix 2% CC PD @ 8:30 p.m. 4-7-81
2496	2710	Shale-Lime	
2710	5065	Lime-Shale	
5065	5081	Shale-Lime	
5081	5120	Lime-Shale	
5120 - TD			Ran 116 jts of 9 1/2# 4 1/2" csg set @ 5119' Cemented w/250 sks 50/50 Posmix 10% Salt - 2% Gel - 3/4% CFR-2 PD @ 6:40 p.m. 4-19-81

STATE OF KANSAS)
) SS
 COUNTY OF SEDGWICH)

I, the undersigned, being duly sworn on oath, state that the above Drillers' Well Log is true and correct to the best of my knowledge and belief and according to the records of this office.

GABBERT-JONES, INC.


 JAMES S. SUTTON II

Subscribed and sworn to before me this 23rd day of April, 1981.


 ELIZABETH J. EDWARDS-NOTARY PUBLIC

15-033-70486-0000

INSTRUCTIONS: Submit an Initial Report as soon as possible after spudding. Complete applicable data and begin in the appropriate space a daily chronological record of drilling activity. Daily work prior to spudding should be summarized giving inclusive dates only. Include in the initial summary the exact surface location of the drill site and if the well is directionally drilled, also report bottom hole location at projected TD. Description of work performed on the initial report after spud date should be a complete report of each days Drilling Activity. Significant workovers may also be recorded on an initial report.

LEASE / UNIT NAME & WELL NO. Unruh "C" #2		OPERATOR CSC		REGION MCN	
COUNTY - PARISH - STATE - PROVINCE Comanche County, Kansas			FIELD OR PROSPECT NAME Mule Creek		AFE NUMBER 9-1578966-5
PROJECTED TD & DEEPEST OBJECTIVE FORMATION T.D. 2120' - Mississippi			SEC. REC. PROJECT NO.	PRODUCING COST CENTER IF ASSIGNED 7-1589886-6	
SPUD DATE 4/5/81	ELEVATION KB 2168' GL 2158'		DEPTH OF WATER	OFFSHORE GROUP	API WELL NUMBER
ORIGINAL 100% COST ESTIMATE 147,662	DRILLING CONTRACTOR Gabbert-Jones Drlg.	DRLG. COST INTEREST IF DIFFERENT FROM GROSS WI		CO. GROSS WI 75%	NET REV. II 65.6%

SURFACE LOCATION

Location 660' FNL - 660' FWL
Section 2-31S-18W
Comanche County, Kansas

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
4/6/81	<u>First Report.</u> Secondary Objective: Marmaton Spudded 12 1/4" hole at 7 A.M., 4/5/81. Drilled 12 1/4" hole to 502'. Rat hole headed with 7 7/8" bit, lost circulation at 735'. Ran 12 1/4" bit, reamed and drilled to 1100'. Running 8 5/8" casing, hit bridges and tight spots, finally stopped at 640'. Coming out of hole with 8 5/8".
4/7/81	Pulled 8 5/8" back out. Tried to regain circulation, could not get circulation. Reamed hole 17" to 310'. Ran 8 joints - 13 3/8" OD 48# 8 Rd Thread new casing. Set at 308'. Cemented 300 sacks 50/50 pozmix 2% CaCl-2. No returns. Pressure did build up. Plug down 7:55 P.M., 4/6/81. Pumped down thru 1" at 80' with 100 sacks 50/50 pozmix 2% CaCl-2. No returns 2 - 1338, Centralizers 270-70'. 2 - cement baskets 260-75'. Waiting on cement.
4/8/81	Drilling 7 7/8" hole to 970'. Ran 24 joints - 8 5/8" OD 24# 8 Rd Thd K-55 range 3 new casing. Set at 962'. Cemented with 150 sacks 50-50 pozmix 2% CaCl-2. Plug down 8:30 P.M., 4/7/81 - some circulation. Cemented top 150 sacks 50-50 pozmix 2% CaCl-2 - 80' to base cellar. Cemented top 13 3/8" 50 sacks 50-50 pozmix 2% CaCl-2 to top surface. Waiting on cement. 4 - 8 5/8" centralizers 930-850-770-80. 1 cement basket 80'. 8 5/8" collar 13' below R.K.B.
4/9/81	Drilling at 1890' Lime & Shale, native mud. Slope test 1513 - 3/4 degree.
4/10/81	Drilling at 2710' Lime & Shale, Native mud. Slope test 2133' - 1/2 degree.

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5-14-93
CONSERVATION DIVISION
Wichita

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Completion Report for the well. Interim Reports are required for all drill wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. Submit the Interim Report on all wells that have suspended drilling activity.

LEASE / UNIT NAME AND WELL NO. Unruh "C" #2		REGION MCN
COUNTY - PARISH - STATE - PROVINCE Comanche County, Kansas	FIELD OR PROSPECT NAME Mule Creek	AFE NUMBER 9-1578966-6

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
4/11/81	Drilling at 3185' lime and shale, native mud. Slope test 2758' - 1/4 degree.
4/12/81	Drilling at 3685' lime and shale, mud wt. 9.5, visc. 34. Slope test 3289' - 1/4 degree.
4/13/81	Drilling at 4161' lime, mud wt. 9.5, visc. 36.
4/14/81	Drilling at 4583' lime, mud wt. 9.4, visc. 39. mudding up.
4/15/81	Drilling at 4795' lime. Mud wt. 9.7, visc. 48, WL 13.99 CC. Slope test 4786' - 1 1/4 degree. Strap drill pipe plug 1.39'. Top Heebner 4215-2047, Toronto 4235-2067, brown lime 4382-2214, Lansing 4396-2228.
4/16/81	5020' circulating for sample. Mud wt. 9.5, Visc. 50. W.L. 12.4 CC. Lost 80 barrels mud.
4/17/81	5065'. Running DST #1 - 5008'-65', 57' anchor. Mississippi 30-60-45-60. Strong blow first opening. Gas to surface in 20 minutes on second opening.
4/18/81	5081'. Running DST #2 - 5054'-81', 27' anchor Mississippi 30-60-30-60. Fair blow on both openings. Ran DST #1 - 5008'-5065', 57' anchor. Mississippi 30-60-45-60. Strong blow first opening. G.T.S. in 20 minutes, second opening 25 MCF. Dropped to 18.5 MCF at end of opening. Recovered 180' slightly gas cut drilling mud with specks oil. IHH 2583, IFP 104-166, ISIP 1323, FFP 62-83, FSIP 1179, FHH 2480, Temp 108 degrees.
4/19/81	5120'. Laying down drill pipe. Ran dual induction laterlog 5120'-962' and bore hole compensated sonic 5120'-3120'. Ran DST #2 - 5404'-81', 27' anchor Mississippi 30-60-30-60. Fair blow both openings. Recovered 120' gas cut drilling mud. 120' slightly oil and gas cut drilling mud. IHH 2604, IFP 42-73, ISIP 601, FFP 83-104, FSIP 436, FHH 2532, Temp. 110 degrees.
4/20/81	Total depth 5120'. Waiting on cement. Ran 26 joints 4 1/2" OD 8 rd thd 9.5 K-55 range 3 "B" grade and 90 joints 4 1/2" OD 8rd thd 9.5 K-55 range new casing. Set at 5119' cement with 250 sacks 50-50 pozmix 10% salt, .75% CFR-2. Plug down 6:40 p.m. 4/19/81. Good circulation until we had 21 barrels flush left. Lost returns. Pressures did build up to 600# after lost. 6 4 1/2" centralizers 5090-5000-4915-4795-4670-4550'. Slope test 5120' - 1 degree. waiting on cement.

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LEASE / UNIT NAME AND WELL NO.		REGION
Unruh "C" #2		MCN
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Comanche County, Kansas	Mule Creek	9-1578966-6
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/21/81	Total depth 5120'. Waiting on cement. Ran temperature survey to 5078'. No cement indicated.	
4/22/81	Total depth 5120'. Waiting on cement.	
4/23/81	Total depth 5120'. Waiting on completion unit.	
4/24/81	Total depth 5120'. Waiting on completion unit.	
4/25/81	Total depth 512'. Waiting on completion unit.	
4/26/81	Waiting on completion unit.	
4/27/81	Waiting on completion unit.	
4/28/81	Total depth 5120'. Ran PFC log to 5071'. Ran 3 4/8" bit. Clean out to 5088'.	
4/29/81	Total depth 5120'. Pulled tubing. Perforate 5084 1/2 - 5085 1/2 - 4 shots. P.I. at 3 1/2 BPM at 700 psi. Ran junk basket and gauge ring. Ran cement retainer. Set at 5081'. Ran tubing and stinger. Cement casing with 250 sacks 50/50 pozmix "A". Maximum pressure 1000 psi. Went to 0 psi. Cleaned and pulled tubing. Waiting on cement. Will run temperature survey today.	
4/30/81	Total depth 5120'. Ran temperature survey, TC 4500. Will perforate Mississippi today.	
5/1/81	Total depth 3120'. Swab casing to 3500'. Perforate Mississippi 5056-64 with 2 shots per foot. Ran 2" tubing. Set at 5056' seating nipple at 5025'. Swab tubing dry - no shows oil or gas.	
5/2/81	500' fluid in hole. Spot acid on perforations 5056-64 Mississippi. Treated with 1000 gallons 15% Ne. Pressure 250#-100#. A.I.R. 1 BPM. flushed 21 barrels water. I.S.D.P., vacuum. Total load 100 barrels. Swabbed trace oil - 94 barrels water - 6 hours. Casing pressure 130#. 6 barrels load to recover.	
5/3/81	Shut down.	
5/4/81	Shut down.	
5/5/81	64 hours shut in pressure - 540# casing, 260# tubing. 2900' fluid in hole. Swabbed 24 barrels oil - 36 barrels water. show of gas. Oil gravity 27.2 at 60 degrees.	

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LEASE UNIT NAME AND WELL NO. Unruh "C" #2		REGION MCN
COUNTY - PARISH - STATE - PROVINCE Comanche County, Kansas	FIELD OR PROSPECT NAME Mule Creek	AFE NUMBER 9-1578966-6

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
5/6/81	16 hours shut in, pressures - 560# casing, 160# tubing. 2200' fluid in hole. Swabbed 10 barrels oil - 15 barrels water in 4 hours. Pulled tubing to run back with mud anchor and seating nipple.
5/7/81	Ran 1 1/2" pump on 201 - 3/4" rods. Shut in. Move out unit.
5/8/81	Shut down. Storm.
5/9/81	Shut down.
5/10/81	Shut down.
5/11/81	Shut down.
5/12/81	Shut down.
5/13/81	Assembly pumping unit. Laying lead line.
5/14/81	Shut down.
5/15/81	Put on test.
5/16/81	Pumped 13 B0 - 34 BW - 16 hrs. 44 x 12.
5/17/81	Pumped 21 B0 - 11 BW - 24 hrs. 44 x 12.
5/18/81	Pumped 11 B0 - 34 BW - 24 hrs. 44 x 12.
5/19/81	Pumped 21 B0 - 11 BW - 24 hrs. 44 x 12.
5/20/81	Pumped 11 B0 - 13 BW - 24 hrs. 44 x 12.
5/21/81	Pumped 13 B0 - 14 BW - 24 hrs. Show of gas. 44 x 12.
5/22/81	Final Report. Pumped 18 B0 - 8 BW - 24 hours. Mississippi perforations 5056-64. Mule Creek Field, Comanche County. Allowable 8 BPD.

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Wichita, Kansas

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INSTRUCTIONS: Submit a Completion Report as soon as possible after filing regulatory agency completion report or a well is P & A. When operations resumed on wells reported as suspended or TA, a Completion Report must be submitted as if the well had not been suspended or TA. On workovers when regulatory agency completion report is not required upon completion, report completion and representative test data in spaces provided. Description of work performed on workovers and the plugging of wells other than drilling wells may be summarized giving inclusive dates, on the Completion Report form in which case Initial and Interim Reports are not required. Give bottom hole location on all directionally drilled wells.

32-48 (1-79)

LEASE / UNIT NAME AND WELL NO. Unruh "C" #2		OPERATOR CSC		REGION MCN	
COUNTY-PARISH-STATE-PROVINCE Comanche County, Ks.		FIELD OR PROSPECT NAME Mule Creek		ESTIMATED 100% D & E COST AT COMP. 147,662	
CLASS OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> SERV <input type="checkbox"/>		ORLG. COST INTEREST IF DIFFERENT FROM GROSS WI		COMPANY GROSS WI 75%	
NET REV. INT.					

FINAL BOTTOM HOLE LOCATION

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
5/22/81	Final Report. Pumped 18 B0 - 8 BW - 24 hrs. Mississippi perforations 5056-64. Mule Creek Field, Comanche County. Allowable 18 BPD.

TD-MEASURED 3120'	PBTD	TVD
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POTENTIAL TEST DATA		GAS PLANT CONNECTION									
DATE	RESERVOIR	PRODUCING INTERVAL	TBG PR	CSG PR	CHK. SIZE	BOPD	MCF/D	% WTR.	GOR	CORR. GR.	TES TIM

PRODUCTION ESTIMATE (COMPLETE EVEN IF WELL IS SHUT IN)					
RESERVOIR	BOPD	MCF/D	BWPD	DATE ON PRODUCTION ESTIMATED (OR ACTUAL)	DATE THE PERMANENT WELL HEAD WAS INSTALLED

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