

~~CONFIDENTIAL~~

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 03171
Name K.S. OIL SERVICES, INC.
Address Box 51, RR #1, Wellsville, KS 66897
City/State/Zip (913) 883-2300

Purchaser: NONE

Operator Contact Person JIM MIETZMAN
Phone (913) 883-2300

Contractor: License # UNKNOWN
Name CASIDA DRILLING

Wellsite Geologist: NONE

- Designate Type of Completion
- New Well
 - Re-Entry
 - Workover
 - Oil
 - Gas
 - Dry
 - SWD
 - Inj
 - Other (Core, Water Supply etc.)
 - Temp Abd
 - Delayed Comp.

If OWWO: old well info as follows:
Operator K.S. OIL SERVICES, INC.
Well Name M+M 160 #2
Comp. Date 11/2/87 Old Total Depth 900

WELL HISTORY

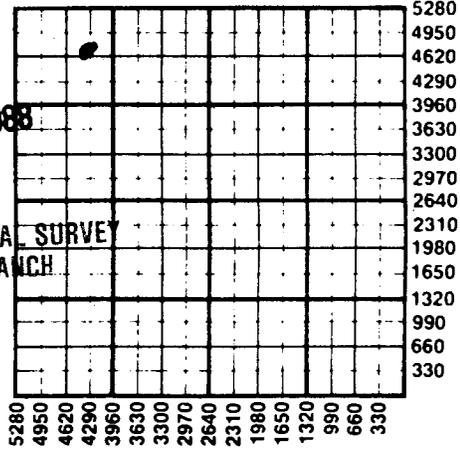
Drilling Method:
 Mud Rotary Air Rotary Cable
11/2/87 11/6/87 6/28/88
Spud Date Date Reached TD Completion Date
820'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 40 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated from 40 feet depth to SURFACE / 10 SX cmt

API NO. 15-045, 21030
County DOUGLAS
NE NW NW Sec 32 Twp 14 Rge 21 East West
4785' Ft North from Southeast Corner of Section
4285' Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name M+M 160 Well # 2
Field Name Baldwin
Producing Formation SQUIRREL
Elevation: Ground UNKNOWN KB.....
Section Plat

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH



WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal Repressuring
Docket #

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #.....
 Groundwater NONE Ft North from Southeast Corner (Well)Ft West from Southeast Corner of Sec Twp Rge East West
 Surface Water NONE Ft North from Southeast Corner (Stream, pond etc).....Ft West from Southeast Corner Sec Twp Rge East West
 Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 James L. Mietzma
Title President Date 7/8/88

Subscribed and sworn to before me this 8th day of July, 1988
Notary Public Deborah L. Mietzma
Date Commission Expires 12/11/91

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

NOTARY PUBLIC: Deborah L. Mietzma
Notary Public for State of Kansas
Commission Expires 12-11-91

~~CONFIDENTIAL~~

CONSERVATION DIVISION
Wichita, Kansas

Form ACO-1 (7-84)

Sec. 32, Twp. 14, Rge. 21E



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

API NO. 15-045-21.030
County.....Douglas
NE.....NW.....NW Sec 32.....Twp.....Rge.....21.....East
.....West

Operator: License # 3171
Name Kansas Oil Pumpers, Inc.
Address P.O. Box 865
City/State/Zip Baldwin City, KS 66006

4785
4455 Ft North from Southeast Corner of Section
4455 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser.....

Lease Name.....M & M.....Well # 160-2

Operator Contact Person James L. Mietchen
Phone 913-594-2413 or 913-594-2414

Field Name.....Infield

Contractor: License # 6913
Name Casady Drilling

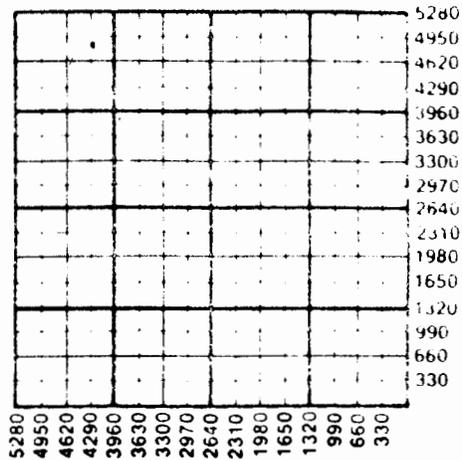
Producing Formation.....

Elevation: Ground.....KB.....

Wellsite Geologist.....none
Phone.....

Designate Type of Completion
 New Well Re-Entry Workover

Section Plat



Oil SWD Temp Abd
 Gas Inj Delayed Comp.
Dry Other (Core, water supply etc.)

If ~~OWO~~ old well info as follows:
Operator
Well Name
Comp. DateOld Total Depth.....

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11/3/87 11/6/87 11/6/87
Spud Date Date Reached TD Completion Date
900'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at.....feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name Consolidated Oil
Invoice # 80912

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #.....
 Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West
 Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West
 Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

Operator Name Kansas Oil Pumpers, Inc. Lease Name M & M Well # 160-2

Sec. 32 Twp. 14s Rge. 21 East West County Douglas

WELL LOG

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.

Di CASADY DRILLING
 1832 CHESTNUT
 OTTAWA, KS 66067
 913-242-8888
 DATE SPUD 11-3-81
 DATE COMP. 11-1-81
 LEASE NAME M & M
 WELL NUMBER 160-2
 OPERATOR Kansas Oil Pumpers, Inc.
 ADDRESS Rt. 2, Douglas, KS
 SIZE HOLE 5 7/8"
 LOCATION NE, NW, SE, SW SEC 32 TWP 14 RGE 21
 COUNTY Douglas STATE Ks SURFACE CASING 6 5/8" SIZE 4 1/2"

CASADY DRILLING
 1832 CHESTNUT
 OTTAWA, KS 66067
 913-242-8888
 DATE SPUD _____
 DATE COMP. _____
 LEASE NAME M & M
 WELL NUMBER 160-2
 OPERATOR _____
 ADDRESS _____
 SIZE HOLE _____
 LOCATION SEC _____ TWP _____ RGE _____
 COUNTY _____ STATE _____ SURFACE CASING _____ SIZE _____

THICKNESS	FORMATION	TOTAL DEPTH	REMARKS	THICKNESS	FORMATION	TOTAL DEPTH	REMARKS
15	lime	100		15	lime	115	
100	shale	110		5	shale	115	
6	lime	116		15	lime	131	
4	shale	120		5	shale	125	
16	lime	136		10	lime	146	
4	shale	140		2	shale	142	
8	lime	148		6	lime	154	
8	shale	156		7	shale	163	
30	lime	186		22	lime	208	
4	shale	190		4	shale black	194	
20	lime	210		6	lime	216	
5	shale	215		4	shale	219	
2	sandy lime	217		5	lime	222	
44	shale	261	water	4	shale	265	
7	lime	268		10	sand light	278	
10	shale	278		160	shale	438	
18	lime	296		10	lime	306	
12	shale	308		7	shale dark	315	
11	lime	319		9	lime	328	
20	shale	339		14	shale	353	

THICKNESS	FORMATION	TOTAL DEPTH	REMARKS	THICKNESS	FORMATION	TOTAL DEPTH	REMARKS
6	lime	106		5	shale	111	
2	shale	108		5	sand grey	113	
4	lime	112		5	shale	117	
5	shale	117		5	lime	122	
4	lime sandy	121		1	shale	122	
1	shale black	123		2	lime	125	
3	lime sandy	126		2	shale	128	
4	lime	130		1	shale	131	
1	shale grey	132					
1	lime	133					
1	shale grey	134					
1	mulvey	135					
1	lime	136					
2	sand green	138	water sand				
1	lime	139					
9	sand grey	148					
2	sand grey	150					
40	shale grey	190					
4	sand black	194					

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	8 1/2"	6 5/8"		40'	portland	15-16	2% gel
Completion	5 1/8"	2 7/8"		860'	portland	65	2% gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
NOT COMPLETED			

TUBING RECORD Size Set At Packer at Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift Other (explain).....

DRILLER'S LOG

32-14-21E

PG 1 of 2

CASADY DRILLING

1632 CHESTNUT
OTTAWA, KS. 66067
913-242-5998

RECEIVED
 STATE CORPORATION COMMISSION
 JUL 11 1988
 CONSERVATION DIVISION
 Wichita, Kansas

LEASE NAME M & M
 WELL NUMBER 160-2
 OPERATOR Kansas Oil Pumpers, Inc.
 ADDRESS R.R. # 3, Baldwin, Ks.
 SIZE HOLE 5 1/4" 66006

DATE SPUD. 11-3-87
 DATE COMP. 11-6-87

API # 15-045-21030 LOCATION NE, NW, NW SEC. 32 TWP. 14 RG. 21E

COUNTY Douglas STATE Kansas SURFACE CASING 6 5/8" SIZE 40ft. LEN.

THICKNESS	FORMATION	TOTAL DEPTH	REMARKS	THICKNESS	FORMATION	TOTAL DEPTH	REMARKS
15	soil	15		8	lime	373	
101	shale	116		7	shale	380	
6	lime	122		10	lime	390	
4	shale	126		7	shale	397	
16	lime	142		17	lime	415	
4	shale	146		2	shale	417	
8	lime	158		6	lime	423	
8	shale	166		7	shale	430	
30	lime	196		22	lime	452	
4	shale	200		4	shale black	456	
25	lime	225		5	lime	461	
5	shale	230		4	shale	465	
2	sandy lime	232		5	lime	470	hertha
48	shale	280	water	5	shale	475	
7	lime	287		10	sand light	485	no show
10	shale	297		160	shale	645	
18	lime	315		13	lime	658	
13	shale	328		7	shale dark	663	
11	lime	339		9	lime	672	
26	shale	365		14	shale	686	

DRILLER'S LOG

32-14-21E

PG 2 of 2

CASADY DRILLING

1632 CHESTNUT
OTTAWA, KS. 66067
913-242-5998

RECEIVED
STATE DEPARTMENT OF REVENUE
CONSERVATION COMMISSION
JUL 11 1988
CONSERVATION DIVISION
Wichita, Kansas

LEASE NAME M & M
WELL NUMBER 160-2
OPERATOR _____
ADDRESS _____
SIZE HOLE _____

DATE SPUD. _____

DATE COMP. _____

API # _____ LOCATION _____ SEC. _____ TWP. _____ RG. _____

COUNTY _____ STATE _____ SURFACE CASING _____ SIZE _____ LEN. _____

THICKNESS	FORMATION	TOTAL DEPTH	REMARKS	THICKNESS	FORMATION	TOTAL DEPTH	REMARKS
6	lime	692		6	sand brown	815	water no odor
7	shale	699		3	sand gray	818	
4	lime	703		3	sandy shale	821	
7	shale	710		2	lime	823	
6	lime sandy	716		12	shale	835	
7	shale black	723		3	lime	838	
3	lime brown	726		2	shale dark	840	
4	slate	730		60	sandy shale	900	t.d.
4	sandy shale	734					
2	shale green	736					
2	lime	738					
1	shale gray	739					
3	mulkey	742					
1	lime	743					
2	sand green	745	w/gas sand lams				
1	lime	746					
9	sand gas	755					
3	sand gray	758					
47	shale gray	805					
4	sand black	809					