

**WELL PLUGGING APPLICATION FORM**

15-153-05163-00-01

(PLEASE TYPE FORM and File ONE Copy)

API # Compl 10/59 Identifier number of this well). This must be listed for wells drilled since 1967; if no API# was issued, indicate spud or completion date.

WELL OPERATOR Murfin Drilling Co., Inc. KCC LICENSE # 30606  
(owner/company name) (operator's)

ADDRESS 250 N. Water, Suite 300 CITY Wichita

STATE Kansas ZIP CODE 67202 CONTACT PHONE # (316) 267-3241

LEASE Cahoj (Texaco) Unit WELL# 51 SEC. 17 T. 1S R. 34W (East/West)

NW SW SW SPOT LOCATION/QQQQ COUNTY Rawlins

990 FEET (in exact footage) FROM S/N (circle one) LINE OF SECTION (NOT Lease Line)

4950 FEET (in exact footage) FROM E/W (circle one) LINE OF SECTION (NOT Lease Line)

Check One: OIL WELL  GAS WELL  D&A  SWD/ENHR WELL  DOCKET# E16643

CONDUCTOR CASING SIZE \_\_\_\_\_ SET AT \_\_\_\_\_ CEMENTED WITH \_\_\_\_\_ SACKS

SURFACE CASING SIZE 8 5/8 SET AT 446' CEMENTED WITH 300 SACKS

PRODUCTION CASING SIZE 5 1/2 SET AT 4346' CEMENTED WITH 250 SACKS

LIST (ALL) PERFORATIONS and BRIDGEPLUG SETS: 4068-4181'

ELEVATION 3179 TD 4375 PBTD 4188 ANHYDRITE DEPTH \_\_\_\_\_  
(G.L./K.B.) (Stone Corral Formation)

CONDITION OF WELL: GOOD  POOR  CASING LEAK  JUNK IN HOLE

PROPOSED METHOD OF PLUGGING In accordance with the rules and regulations of the State of Kansas.

(If additional space is needed attach separate page)

IS WELL LOG ATTACHED TO THIS APPLICATION AS REQUIRED? Yes IS ACO-1 FILED? No

If not explain why? \_\_\_\_\_

**PLUGGING OF THIS WELL WILL BE DONE IN ACCORDANCE WITH K.S.A. 55-101 et. seq. AND THE RULES AND REGULATIONS OF THE STATE CORPORATION COMMISSION.**

LIST NAME OF COMPANY REPRESENTATIVE AUTHORIZED TO BE IN CHARGE OF PLUGGING OPERATIONS:

John Turner, Prod. Supt. PHONE# (913) 462-7541

ADDRESS 1040 Plains Ave. City/State Colby, KS

PLUGGING CONTRACTOR Murfin Drilling Co., Inc. KCC LICENSE # 30606  
(company name) (contractor's)

ADDRESS 250 N. Water, Suite 300; Wichita, KS PHONE # (316) 267-3241

PROPOSED DATE AND HOUR OF PLUGGING (If Known?) March, 1996

PAYMENT OF THE PLUGGING FEE (K.A.R. 82-3-118) WILL BE GUARANTEED BY OPERATOR OR AGENT

DATE: 3/06/96 AUTHORIZED OPERATOR/AGENT: Kerran Redington  
Kerran Redington, Engineering Tech

RECEIVED  
12/96  
03-01-96

4)



15-153-05163-00-01

Kansas Corporation Commission

Bill Graves, Governor Susan M. Seltsam, Chair F.S. Jack Alexander, Commissioner Timothy E. McKee, Commissioner  
Judith McConnell, Executive Director David J. Heinemann, General Counsel

**NOTICE OF RECEIPT OF WELL PLUGGING APPLICATION (CP-1)**

March 8, 1996

Murfin Drilling Co Inc  
250 N Water Sutie 300  
Wichita KS 67202

Cahoj (Texaco) Unit #51  
API 15-N/A  
NW SW SW  
Sec. 17-01S-34W  
Rawlins County

Dear John turner, Prod. Supt.,

This letter is to notify you that the Conservation Division is in receipt of your plugging proposal, form CP-1, for the above-captioned well.

Your CP-1 has been reviewed by the Conservation Division central office for completeness and to verify license numbers. The plugging proposal will now be forwarded to the district office listed below for review of your proposed method of plugging:

Please contact the district office for approval of your proposed plugging method at least at five (5) days before plugging the well, pursuant to K.A.R. 82-3-113 (b). If a workover pit will be used during the plugging of the well it must be permitted. A CDP-1 form must be filed and approved prior to the use of the pit.

The Conservation Division's review of form CP-1, either in the central or district office, does not include an inquiry into well ownership or the filing operator's legal right to plug the well.

**This notice in no way constitutes authorization to plug the above-captioned well by persons not having legal rights of ownership or interest in the well. This notice is void after ninety (90) days from the above date.**

Sincerely,

David P. Williams  
Production Supervisor

District: #4  
2301 E 13th  
Hays KS 67601  
(913) 628-1200



RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
Surface soil, clay and shale	0	200	
Shale and shells	200	450	Set and cemented 5 1/8" OD, 22.7#, Armo, S.W., S.V. steel casing (A cond.) at 446' with 300 sacks of
Shale	450	700	Rozmix cement. Cement circulated. Finished cementing at 8:00 am 10/11/59
Shale and shells	700	1215	
Shale and shells	1215	2740	
Shale and gyp	2740	2833	
Shale and gyp	2833	3225	TOP STONE CORRAL 3002
Anhydrite	3225	3465	BASE STONE CORRAL 3050
Line	3465	3805	TOP COUNCIL GROVE 3123
Line and shale	3805	3912	TOP ADMIRE 3695
Line	3912	3974	TOP HOPEKA LINE 3874
Line and shale	3974	4015	TOP HEEBNER 4014
Line	4015	4066	TOP LEAVENWORTH 4019
Line and shale	4066	4120	TOP LANSING LINE 4074

RECEIVED  
KANSAS CORP COMM  
1959 MAR - 7 A 11:50

FORMATION	TOP	BOTTOM	REMARKS
Line, buff to tan, finely crystalline, vuggy and fossiliferous	4066	4076	Fair porosity, spotted saturation, small show of free oil
Line	4076	4087	
Sand, light tan and gray, fine grained quartzose, sub-angular	4087	4093	Fair porosity, fair light stain
Line	4093	4120	
Line, tan, medium crystalline, calcitic, fossiliferous and vuggy	4120	4130	Good porosity, good spotted saturation, good show free oil.
Line	4130	4150	DRILL STEM TEST NO. 1

FORMATION	TOP	BOTTOM	REMARKS
Line	4150	4375	DRILL STEM TEST NO. 1
Line	4375	4375	DRILL STEM TEST NO. 1

Set and cemented 5 1/8" OD, 14 1/2, 8R thd., R-2, J-55, S.S. casing (A cond.) at 4346' with 250 sacks of S.O.W. cement, used 130 barrels oil gelled with 130 sacks of Howco gel ahead of cement, oil circulated. Finished at 9:00 a.m. 10/12/59. Halliburton Temperature Survey showed top of cement behind 5 1/8" casing at 2700'.

Rigged up cable tools and swabbed the hole dry to top of cement plug at 4315' on October 16. Ran Lane-Wells Cellar Log.

Casing Perforation No. 1 - Lansing Line - 4301'-4310'

No shows. Treated through 5 1/8" casing with 250 gallons of Halliburton 15% acid as follows:

TIME	CP	REMARKS
10:00 am	150#	Acid on formation
10:30 am	200#	
10:35 am	350#	250 gallons acid in formation
10:55 am	350#	

Swabbed through 5 1/8" casing 2 hours, 105 barrels of water used in treating. Bailed 4 hours, hole dry.

Set Lane-Wells bridging plug at 4272'

Sheet No. 2  
Lansing Line  
Halliburton  
10/12/59  
To Smith  
10/12/59

Casing Perforation No. 2 - Lansing Line - 4258'-4266' 32 Type "E" holes

No shows. Treated through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 2 - Acidized - 4258'-4266' Treatment put in 10/18/59 by Halliburton, using 250 gallons of acid and 104 barrels of water.

Table with columns: TIME, CP, TP, REMARKS. Rows: 7:50 am 150#, 8:15 am 200#, 8:30 am 300#, 8:45 am 350#, 8:50 am 400#

Swabbed through 5 1/2" casing 1 hour, 104 barrels of water used in treating. Then swabbed 5 hours, 2 barrels of oil and 48 barrels of water.

Casing Perforation No. 3 - Lansing Line - 4222'-4230' 32 Type "E" holes

Swabbed through 5 1/2" casing 14 hours, 7 barrels of oil and 49 barrels of water.

Run 2" tubing and set BM retainer at 4192'. Perforations from 4222' to 4230' with 130 sacks of cement. 115 sacks below retainer at 2500'. Reversed and 15 sacks finished cementing at 4190' on 10/19/59. Tubing swabbed and bailed hole dry to top of retainer at 4192'.

Casing Perforation No. 4 - Lansing Line - 4172'-4181' 36 Type "E" holes

Tested 1 barrel of water per hour. Treated through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized - 4172'-4181' Treatment put in 10/20/59 by Halliburton, using 250 gallons of acid and 103 barrels of water.

Table with columns: TIME, CP, TP, REMARKS. Rows: 1:15 am 200#, 2:00 am 250#, 2:30 am 350#, 3:30 am 400#, 3:55 am 500#

Swabbed through 5 1/2" casing 2 hours, 103 barrels of water used in treating. Then swabbed 1 hour, 7 barrels of oil with trace of water. On October 20, swabbed through 5 1/2" casing 5 hours, 19.70 barrels of oil and no water. Reacidized with 750 gallons of Halliburton acid as follows:

TREATMENT NO. 4 - Acidized 4172'-4181' Treatment put in 10/20/59 by Halliburton, using 750 gallons of acid and 106 barrels of water.

Table with columns: TIME, CP, TP, REMARKS. Rows: 3:25 pm 150#, 3:30 pm 500#, 3:35 pm 400#, 3:39 pm 300#

Swabbed through 5 1/2" casing 2 hours, 106 barrels of water used in treating. Then swabbed through casing 4 hours, 207 barrels of oil and no water, swabbing 3000' from top (oil 37.8° gravity).

Set Lane-Wells bridging plug at 4140' and swabbed the hole dry.

Casing Perforation No. 5 - Lansing Line - 4122'-4131' 36 Type "E" holes

1100' oil in hole in 20 minutes, 2300' oil in hole in 1 hour. Swabbed through 5 1/2" casing 3 hours, 155 barrels of oil, no water, swabbing 3000' from top (oil 28.2° gravity). Reacidized through 5 1/2" casing with 750 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 5 - Acidized - 4122'-4131' Treatment put in 10/21/59 by Halliburton, using 750 gallons of acid and 105 barrels of oil.

Table with columns: TIME, CP, TP, REMARKS. Rows: 9:37 am 500#, 9:45 am 300#, 9:49 am 250#

Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating; then swabbed 3 hours, 188 barrels of oil (29.09 gravity), swabbing 3000' from top, no water.

Set Lane-Walls bridging plug at 4100', swabbed and bailed the hole dry.

Casing Perforation No. 6 - Lansing Lime 4068'-4080' - 2" Type 100 holes

Tested 4 gallons of oil in 1 hour, swabbed through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 6 - Acidized - 4068'-4080'

Treatment put in 10/21/59 by Halliburton, using 250 gallons of acid and 101 barrels of oil.

TIME	CP	TP	REMARKS
9:04 pm			Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating.
9:20 pm	200		Then swabbed 3 hours, 188 barrels of oil (29.09 gravity), swabbing 3000' from top, no water.
9:45 pm	0		250 gallons of acid in, treatment completed.

Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating. Then swabbed 2 hours, 92 barrels of oil (25.9° gravity), no water, and swabbed to bottom.

Drove bridging plug from 4100' and 4140' to 4188' SLM. PLUGGED BACK TOTAL DEPTH 4188'

Ran 2 1/2 hours on October 22, 1959. Corporation Commission potential 205.20 barrels of oil (30.4° gravity), no water, established 2 1/2 hour potential 115 barrels, allowable 31° barrels per day for the remainder of 1959.

Casing Perforation No. 4 - Lansing Lime 4175'-4181' - 2" Type 100 holes

Tested 1 gallon of oil in 1 hour, swabbed through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized - 4175'-4181'

Treatment put in 10/20/59 by Halliburton, using 250 gallons of acid and 101 barrels of oil.

TIME	CP	TP	REMARKS
1:15 pm			Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating.
2:00 pm			Then swabbed 2 hours, 92 barrels of oil (25.9° gravity), no water, and swabbed to bottom.
2:30 pm			Drove bridging plug from 4100' and 4140' to 4188' SLM.
3:30 pm			PLUGGED BACK TOTAL DEPTH 4188'

Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating. Then swabbed 1 hour, 7 barrels of oil with trace of water. On October 20, swabbed through 5 1/2" casing 2 hours, 19.70 barrels of oil and no water. Reacidized with 250 gallons of Halliburton acid as follows:

TREATMENT NO. 4 - Acidized - 4175'-4181'

Treatment put in 10/20/59 by Halliburton, using 250 gallons of acid and 101 barrels of oil.

TIME	CP	TP	REMARKS
3:39 pm			Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating.
4:00 pm			Then swabbed 1 hour, 7 barrels of oil with trace of water.
4:30 pm			On October 20, swabbed through 5 1/2" casing 2 hours, 19.70 barrels of oil and no water.
5:00 pm			Reacidized with 250 gallons of Halliburton acid as follows:

Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating. Then swabbed through 5 1/2" casing 1 hour, 307 barrels of oil and no water, swabbing 3000' from top (27.8° gravity).

Set Lane-Walls bridging plug at 4140' and swabbed the hole dry.

Casing Perforation No. 5 - Lansing Lime 4182'-4188' - 2" Type 100 holes

Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating. Then swabbed through 5 1/2" casing 1 hour, 307 barrels of oil and no water, swabbing 3000' from top (27.8° gravity). Reacidized through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 5 - Acidized - 4182'-4188'

Treatment put in 10/20/59 by Halliburton, using 250 gallons of acid and 101 barrels of oil.

TIME	CP	TP	REMARKS
9:45 am			Swabbed through 5 1/2" casing 1 hour, 105 barrels of oil used in treating.
10:15 am			Then swabbed through 5 1/2" casing 1 hour, 307 barrels of oil and no water, swabbing 3000' from top (27.8° gravity).
10:45 am			Reacidized through 5 1/2" casing with 250 gallons of Halliburton 15% acid as follows: