

STATE OF KANSAS
STATE CORPORATION COMMISSION
130 S. Market, Room 2078
Wichita, KS 67202

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

15-193-05183-00-00

API NUMBER Compl 8/59
LEASE NAME Cahoj (Texaco)
WELL NUMBER 44
1650 Ft. from S Section Line
330 Ft. from E Section Line

TYPE OR PRINT

NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days

LEASE OPERATOR Murfin Drilling Co., Inc.
ADDRESS 250 N. Water, Suite 300; Wichita, KS 67202
PHONE # () 267-3241 OPERATORS LICENSE NO. 30606
Character of Well Oil (Oil, Gas, D&A, SWD, Input, Water Supply Well)

SEC. 17 TWP. 1S RGE. 34W (E) or (W)
COUNTY Rawlins
Date Well Completed 8/59
Plugging commenced 10/23/98
Plugging Completed 10/23/98

The plugging proposal was approved on _____ (date)
by _____ (KCC District Agent's Name).

Is ACO-1 filed? No If not, is well log attached? No

Producing Formation _____ Depth to Top _____ Bottom _____ TD _____

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
				8 5/8	450	
				5 1/2	4329	

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.

Pumped 10 sx dwn 8 5/8 & 5 1/2 & press to 500#. SI. Hooked up to 5 1/2, pumped 225 sx 60/40 Poz w/10% gel & 500# hulls. MP 500#. SI 500#. JC 11:00 a.m.

Name of Plugging Contractor Murfin Drilling Company, Inc. License No. 30606
Address 250 N. Water, Suite 300; Wichita, KS 67202

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: Murfin Drilling Company, Inc.

STATE OF KANSAS COUNTY OF SEDGWICK, ss.
Larry M. Jack, Production Manager (Employee of Operator) or (Operator) 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.

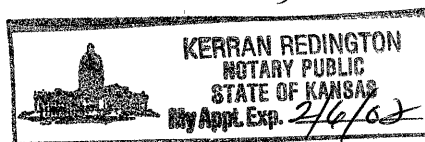
(Signature) Larry M. Jack
(Address) Wichita, KS

SUBSCRIBED AND SWORN TO before me this 18 day of November, 1998

Kerran Redington
Notary Public - Kerran Redington

My Commission Expires: 2/6/02

Form CP-4
Revised 05-88



SKELLY OIL COMPANY

WELL RECORD

Lease Name and No. **Cahoj "D" #67598** Well No. **1** Elev. **3146 FT**

Lease Description **N/2 SE/4 Section 17-18-31N, Range 18E, T12N**

County **Kansas (80 Acres)**

Location made by **3/25** 19 **59** by **E. S. Templar**

330 feet from North line **SE/4**

feet from South line _____ feet from West line of **Sec. 17**

Work com'd. **8/27** 19 **59** Drig. com'd. **8/28** 19 **59** Drig. com'd. **9/11** 19 **59**

Rig Contractor **Claude Wentworth Drilling Co., Inc.**

Drilling Contractor **Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma**

Rotary Drilling from **3 1/2" JACOBS** to **3 1/2" JACOBS** Variable Tool Drilling from **To complete** to **3 1/2" JACOBS**

Commenced Producing **8/28** 19 **59** Initial Prod. before shot of acid **POB on BHP bomb draw down potential for ind. prod. 7,285 bbls**

Dry Gas Well Press. **Established 24 hr. max. SGC potential 3,000 bbls**

Casing Head Gas Pressure **(8-5/8" 5100)** Gas Pressure **3000**

Braden Head **(8-5/8" 5100)** Gas Pressure _____ Volume _____

Braden Head **(8-5/8" 5100)** Gas Pressure _____ Volume _____

PRODUCING FORMATION **Lansing 4262' to 4077'** Top **4077'** Bottom **4268'** TOTAL DEPTH **4268'**

CASING RECORD

OD	Site	Wt.	Thd.	Set	IN.	Feet	IN.	Feet	KIND	Con'd	Sacks Used	Method Employed
8-5/8"	22-7	51	450'		11-1/4"	444	0	0	Armco SW A	A	300	Hallib.
5-1/2"	14-8	38	389'		8-1/2"	281	9	9	J55 R2 SS B	B		3106' 10"
5-1/2"	21-1/2	38	389'		8-1/2"	245	5	5	J55 R2 SS A	A	250	Hallib. 1255' 9"
(8-5/8" casing cut off at below ground level, and 5 1/2" cut off at ground level)												
5 1/2" casing perforations open: Above 4077' to 4268' with 36 holes, 4177' - 36" with 36 holes, 4178' - 36" with 28 holes, 4218' - 29" with 44 holes, and 4262' - 68" with 24 holes												
Liner Set at _____ Length _____ Perforated _____												
Packer Set at _____ Size and Kind _____												
Packer Set at _____ Size and Kind _____												

SHOT OR ACID TREATMENT RECORD

Date	Acid Used	Size Shot	Shot Between	Size of Shell	Put in by (Co.)	Length anchor	Distance from Casing	Damage to Casing or Casing Shoulder
9/16/59	500	500	4262' Ft. and 4268' Ft.	15%	Halliburton	20'	10'	
9/17/59	500	500	4178' Ft. and 4185' Ft.	15%	Halliburton	20'	10'	
9/18/59	500	500	4127' Ft. and 4136' Ft.	15%	Halliburton	20'	10'	
9/19/59	500	500	4077' Ft. and 4085' Ft.	15%	Halliburton	20'	10'	

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Bottom	Top	REMARKS
Council Grove	3342'		
Topeka Limestone	3830'		
Heebner Shale	3970'		
Lansing Limestone	4022'		
Marmaton	4122'		

CLEANING OUT RECORDS

1st	DATE COMMENCED	DATE COMPLETED	PROD. BEFORE	PROD. AFTER	REMARKS
1st					See Reverse for other details.
2nd					
3rd					
4th					

PLUGGING BACK AND DEEPENING RECORDS

1st	Date Commenced	Date Completed	No. Feet Plugged Back or Deepened	Prod. Before	Prod. After	REMARKS
1st						See Reverse for other details.
2nd						
3rd						
4th						

(See Reverse for Record of Formation)

10-15-58
RECEIVED
SKELLY OIL COMPANY
OCT 15 4 11 36

RECORD OF FORMATIONS COMPANY

FORMATION	TOP Well Record	BOTTOM	REMARKS
Surface soil, sand and shale	0	40	Set and cemented 8-5/8" OD, 22.7%, S.W., S.J. Armco steel casing (4 cond.) at 450' with 300 sacks of Pozmix cement with 2% calcium chloride. Finished cementing at 9:00 am 8/29/59. Cement circulated.
Shale and shells	2973	2997	TOP STONE CORRAL 2973'
Shale	2997	3110	BASE STONE CORRAL 3007'
Anhydrite	3110	3520	TOP COUNCIL GROVE 3382'
Anhydrite and shale	3520	3670	TOP ADMIRE 3555'
Shale and shells	3670	3715	
Shale and shells	3715	3820	TOP TOPEKA LINE 3820'
Shale and shells	3820	3910	TOP HEBNER SHALES 3970'
Shale and shells	3910	3953	TOP LEAVENWORTH LINE 3974'
Line	3953	4024	TOP LANSING LINE 4022'

Line	4040	4082	4088	REMARKS
Sand	4040	4082	4088	Good porosity, good spotted even stain. DRILL STEM TEST NO. 1 4026-4070', open 1 hour, weak blow dead in 5 minutes, recovered 6' rotary mud with 20% FFP-55, IBHP-1065 in 30 minutes.
Sand and lime	4047	4070	4077	
Line	4070	4077	4080	Scattered pinpoint vugular porosity, fair spotted medium dark stain, show of free oil.
Line	4082	4086	4088	Same

Line	4262	4268	4272	REMARKS
Line	4262	4268	4272	DRILL STEM TEST NO. 2 4068-4268', open 1 hour, strong blow throughout, recovered 3050' clean gassy oil (30° gravity) IBHP-1200' in 30 mins., IFF-610', FFP-1090', IBHP-1115' in 30 minutes.
Line	4268	4272	4272	Poor to fair scattered porosity, fair show of oil DRILL STEM TEST NO. 3 4252-4272', open 1 hour, weak blow dead in 5 minutes, recovered 6' rotary mud IBHP-1025' in 30 mins., IFF-0', FFP-55' in 30 mins.

Line 4272-4272' ASB KANSAS CITY 4291' ✓
 TOP MANHATTAN 4322'
 Man. Schlumberger Induction, Microlaterolog and Sonic Log from 4330' to 0'.
 Set and cemented 5 1/2" OD, 14.68 thd., R-2, J-55, S.S. casing (4 cond.) at 4329' with 250 sacks of special oil well cement preceded by 130 barrels of crude oil gelled with 130 sacks of Howco Gel. Oil circulated. Finished cementing at 12:00 noon 9/12/59. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 2750'.

Rigged up cable tools and swabbed and bailed the hole dry to top of float collar at 4364' on September 15.

Casing Perforation No. - Lansing lime - 4262'-4268' 24 A-2 holes
 Tested 15 gallons oil per hour, no water for 2 1/2 hours. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO.	CP	IP	REMARKS
1	150#	IP	Acid on formation
	8:15 am	0#	50 gallons acid in
	8:20 am	250#	100 gallons acid in
	9:00 am	0#	500 gallons acid in

Swabbed through 5 1/2" casing 1 hour, 103 barrels of water used in treating. Then swabbed 9 hours, 180 barrels of oil and no water, and swabbing 4000' down from top. Static fluid level 700' from top. Gravity (37.3° gravity). Set Lane-Wells bridging plug at 4250', and swabbed and bailed the hole dry.

Casing Perforation No. 2 - Lansing Line - 4218'-4229'
4218'-4229' 1000' holes

1800' OIH in 30 minutes, 1800' OIH in 30 minutes. Swabbed through 5 1/2" casing 4 hours, 306 barrels of oil, no water, swabbing 1500' down (oil 36.5° gravity).

Drove bridging plug from 4250' to 4300'. Set Lane-Wells bridging plug at 4198' and swabbed and bailed the hole dry.

Casing Perforation No. 3 - Lansing Line - 4178'-4185'
4178'-4185' 28 A-2 holes

No shows. Treated through 5 1/2" casing with 500 gallons of Halliburton acid as follows:

TREATMENT NO. 2 - Acidized - 4178'-4185'
Treatment put in 9/17/59 by Halliburton, using 500 gallons of acid and 103 barrels of oil.

TIME	GP	TP	REMARKS
1:30 pm	150#		Acid on formation
4:30 pm	450#		
5:00 pm	350#		
5:17 pm	350#		Treatment completed

Swabbed through 5 1/2" casing 2 hours, 103 barrels of oil used in treatment. Then swabbed through 5 1/2" casing 10 hours, 192 barrels of oil (35.1° gravity), 2 barrels of water.

Drove bridging plug from 4198' to 4296'. Set Lane-Wells bridging plug at 4150'. Swabbed hole dry.

Casing Perforation No. 4 - Lansing Line - 4127'-4136'
4127'-4136' 36 A-2 holes

Swabbed 2 hours, 72 barrels of oil and no water (37.9° gravity), swabbing to 4000'. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized - 4127'-4136'
Treatment put in 9/18/59 by Halliburton, using 500 gallons of acid and 103 barrels of oil.

TIME	GP	TP	REMARKS
8:30 pm	150#		Acid on formation
9:10 pm	350#		
9:15 pm	500#		
9:24 pm	100#		Treatment completed

Swabbed through 5 1/2" casing 1 hour, 103 barrels of oil used in treating. Then swabbed 2 1/2 hours, 187 1/2 barrels of oil and no water.

Drove bridging plug from 4150' to 4295'. Set Lane-Wells bridging plug at 4110'. Swabbed and bailed the hole dry.

Casing Perforation No. 5 - Lansing Line - 4077'-4086'
4077'-4086' 36 A-2 holes

Tested 3 hours, 80 barrels of oil and no water, swabbing 4000' from top (oil 31.1° gravity). Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 4 - Acidized - 4077'-4086'
Treatment put in 9/19/58 by Halliburton, using 500 gallons of acid and 102 barrels of oil.

TIME	GP	TP	REMARKS
7:20 pm			Loaded hole with 44 barrels oil
8:10 pm	800#		Acid on formation
8:15 pm	550#		
8:29 pm	400#		500 gallons of acid in, treatment completed

Swabbed through 5 1/2" casing 1 hour, 102 barrels of oil used in treating. Then swabbed 3 hours, 204 barrels of oil and no water.

Drove bridging plug from 4110' to 4294'.

PLUGGED BACK TOTAL DEPTH 4294'

Static fluid level 600' from top. Swabbed and cleaned up hole, and ran 2" tubing with pump.

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On September 24, the State Corporation Commission, bottom hole pressure bomb, ran rods, and POB 11 hours on S.C.C. bottom hole pressure bomb, potential test, 231 barrels of 35.4 gravity oil. Then POB 3 hours, 50 barrels of oil and water from indicated productivity of 7,205 barrels to establish 24 hour maximum potential of 3,000 barrels of oil. Allowable 31 barrels per day for remainder of September, 1959. Static BHP-1239#, pumping BHP-1149#.

bedded base bedded base
SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
1000'	1/2 Degree
2000'	1/2 "
3000'	1/2 "
4000'	1/2 "

Prove bridging plug from 4230' to 4300'. Set Lane-Wells
bridging plug at 4150'. Swapped and called the hole dry.

3 - Lane-Wells
4 - Lane-Wells

no shows. Treated through 2 1/2" casing with 200 gallons of
Halliburton 12% acid as follows:

TREATMENT NO. 3 - Acidized - 4132'-4136'
Treatment put in 9/18/59 by Halliburton, using 200 gallons of
acid and 100 barrels of oil.

TIME	CP	TP	REMARKS
9:17 pm	3200		Treatment completed
9:20 pm	3200		
9:30 pm	4200		Acid on formation
9:30 pm	1200		

Swapped through 2 1/2" casing 2 hours, 100 barrels of oil used in
treatment. Then swapped through 2 1/2" casing 10 hours, 100 barrels
of oil (37.1% gravity), 2 barrels of water.

Prove bridging plug from 4150' to 4200'. Set Lane-Wells
bridging plug at 4150'. Swapped hole dry.

3 - Lane-Wells
6 - Lane-Wells

Swapped 2 hours, 75 barrels of oil and no water (37.0% gravity).
Swapped to 4000'. Treated through 2 1/2" casing with 200 gallons of
Halliburton 12% acid as follows:

TREATMENT NO. 2 - Acidized - 4132'-4136'
Treatment put in 9/18/59 by Halliburton, using 200 gallons
of acid and 100 barrels of oil.

TIME	CP	TP	REMARKS
9:24 pm	1000		Treatment completed
9:12 pm	2000		
9:10 pm	3200		Acid on formation
9:30 pm	1200		

Swapped through 2 1/2" casing 1 hour, 100 barrels of oil used in
treatment. Then swapped 2 1/2" casing 1 hour, 100 barrels of oil and no water.

Prove bridging plug from 4150' to 4200'. Set Lane-Wells
bridging plug at 4150'. Swapped and called the hole dry.

3 - Lane-Wells
4 - Lane-Wells

Tested 3 hours, 80 barrels of oil and no water, swapping 4000'
from top (oil 37.1% gravity). Treated through 2 1/2" casing with 200
gallons of Halliburton 12% acid as follows:

TREATMENT NO. 1 - Acidized - 4077'-4080'
Treatment put in 9/18/59 by Halliburton, using 200 gallons
of acid and 100 barrels of oil.

TIME	CP	TP	REMARKS
9:22 pm	4000		200 gallons of acid in treatment completed
9:12 pm	3200		
9:10 pm	8000		Acid on formation
9:20 pm	4000		Loaded hole with 40 barrels oil

Swapped through 2 1/2" casing 1 hour, 100 barrels of oil used
in treatment. Then swapped 3 hours, 200 barrels of oil and no
water.

Prove bridging plug from 4150' to 4200'.

PLUGGED BACK TOTAL DEPTH 4200'

Static fluid level 6000' from top. Swapped and cleaned up hole.
and ran 2" tubing with pump.