

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 # 4022
Name Vincent J. Duncan
Address 2300 South Tower
600 17th Street
City/State/Zip Denver, CO 80202

Purchaser N/A

Operator Contact Person Paul J. Cella
Phone (303) 623-4158

Contractor: License # 6033
Name Murfin Drilling Company

Wellsite Geologist Richard Hall
Phone (303) 980-9707

Designate Type of Completion

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

If OWWO: old well info as follows:

Operator
Well Name N/A
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

12/04/84	12/10/84	12/12/84
Spud Date	Date Reached TD	Completion Date
4240'	N/A	
Total Depth	PBTD	

Amount of Surface Pipe Set and Cemented at 262 feet
Multiple Stage Cementing Coilar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from 0 feet depth to 262 w/ 195 SX cmt

API NO. 15-179-20,777-00-00
County Sheridan
C SW SE Sec. 8 Twp. 9 Rge. 28 East West

660 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

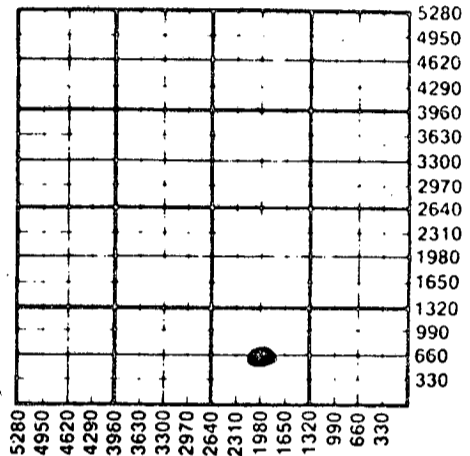
Lease Name Mosier Well # 8-1

Field Name

Producing Formation

Elevation: Ground 2819' KB 2824'

Section Plat



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 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 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 Paul J. Cella
Title Land Manager Date 02/28/85

Subscribed and sworn to before me this 28th day of February 1985
Notary Public Nina M. Jones
Date Commission Expires 5/28/87

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCF SWD/Rep NGPA
 KGS Plug Other (Specify)

RECEIVED STATE CORPORATION COMMISSION

MAR 04 1985
03-04-1985
CONSERVATION DIVISION
Wichita, Kansas

Operator Name Vincent J. Duncan Lease Name Mosier Well # 8-1

Sec. 8 Twp. 9 Rge. 28 East West County Sheridan

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.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

SEE ATTACHED GEOLOGIC REPORT

Name	Top	Bottom
Anhydrite	2482'	
Topeka	3702'	
Heebner	3916'	
Toronto	3938'	
Lansing	3952'	
Base/Kansas City	4188'	

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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		8-5/8"		262	60/40 Poz	195	3% cc

PERFORATION RECORD
 Shots Per Foot Specify Footage of Each Interval Perforated
 Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	N/A	N/A	

TUBING RECORD
 Size Set At Packer at Liner Run Yes No

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

Estimated Production Per 24 hours	Oil Bbls	Gas N/A MCF	Water Bbls	Gas-Oil Ratio	Gravity CFPB
		N/A			

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed
 Commingled

RICHARD J. HALL
PETROLEUM GEOLOGIST
1553 South Zang Street
Lakewood, Colorado 80228
(303) 980-9707

DEC 26 1984

15-179-20777-00-00

Vincent J. Duncan
Mosier #8-1
C-SW-SE
Section 8 T9S-R28W
Sheridan County, Kansas

December 19, 1984

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15-179-20777-00-00

GENERAL INFORMATION

Elevation	G.L. 2819' K.B. 2824'
Contractor	(All measurements are from K.B.) Murfin Drilling Company, Rig No. 7
Surface Casing	6 joints of 8 5/8 @ 262' with 195 SX
Total Depth	R.T.D. 4240' -1416 L.T.D. 4236' -1412'
Drilling Time	3500' to 4240' R.T.D. -
Samples Saved	3570' to 4240' R.T.D.
Samples Examined	3570' to 4240' R.T.D.
DST Company - Number of Tests	Formation Testing Services - 5 tests
Mud Company - Mud Type	Davis Mud - Chemical
Electric Log Company	Great Guns - RA Guard Log (3300' - 4236' L.T.D.)
Samples	Sent to KGS
Well Status	Dry and Abandoned
Date Spudded	Tuesday, December 4, 1984 - Spud 1:45 p.m. Set surface casing
	Wednesday, December 5, 1984 - 7:00 a.m. - 1325', Drilling ahead, bit trip @ 2263'
	Thursday, December 6, 1984 - 7:00 a.m. - 2635', Drilling ahead
	Friday, December 7, 1984 - 7:00 a.m. - 3367', Drilling ahead
	Saturday, December 8, 1984 - 7:00 a.m. - 3959' - CFS; ran DST #1
	Sunday, December 9, 1984 - 7:00 a.m. - 3990', Running DST #2, ran DST #3
Date Completed	Monday, December 10, 1984 - 7:00 a.m. - 4129', Drilling ahead, ran Electric Logs
	Tuesday, December 11, 1984 - 7:00 a.m. - 4240' R.T.D. - WOO; ran DST #4 and DST #5. Plug hole as dry and abandoned

REFERENCE WELL

- A. Imperial Oil Company
Mosier #1 (D & A)
C-NW-SW
Section 8 T9S-R28W
Sheridan County, Kansas
K.B. 2793'
- B. Imperial Oil Company
Pratt #1 (D & A)
C-SW-SW
Section 9 T9S-R28W
Sheridan County, Kansas
K.B. 2772'

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FORMATION TOPS

15-179-20777-00-00

Formation	Sample Tops	E. Log Tops*	Datum (Log)	Reference Well		Test Well Difference To Reference Well	
				A	B	A	B
Anhydrite	2448	2444	+380	+386	+380	-6	Ever
Base/Anhydrite	2482	2477	+347	+351	+344	-4	+3
Howard	3619	3616	-792	-	-	-	-
Topeka	3709	3702	-878	-866	-883	-12	+5
Heebner	3921	3916	-1092	-1083	-1092	-9	Ever
Toronto	3943	3938	-1114	-1105	-1118	-9	+4
Lansing	3956	3952	-1128	-1119	-1129	-9	+1
Base/Kansas City	4194	4188	-1364	-1357	-	-7	-

*NOTE: L.T.D. is four (4) feet high to R.T.D.

DRILL STEM TESTS

DST #1

Toronto - Lansing "A" Zone
Open Hole Test
3938' - 3959' (Rotary Depth)
15-30-45-90

Initial Open: 1 1/2 inches
5 minutes - 4 inches
10 minutes - 7 inches
15 minutes - 8 inches

Final Open: 5 minutes - 3 inches
10 minutes - 5 inches
15 minutes - 8 inches
20 minutes - 9 inches
25 minutes - 10 inches
30 minutes - 11 inches
35 minutes - 12 inches
40 minutes - 13 inches
45 minutes - 14 inches

Recovery: 640 Total feet
40' Heavy oil cut mud (60% oil, 40% mud)
600' Sulfur water (31,600 p.p.m. Chlorides)

IHP 1946 P.S.I.
IFP 49-98 P.S.I.
ISIP 1056 P.S.I.
FFP 118-255 P.S.I.
FSIP 1056 P.S.I.
FHP 1920 P.S.I.

Temperature 128°F

DST #2

Lansing "A-B" Zones
Open Hole Test
3959' - 3990' (Rotary Depth)
15-30-45-90

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Initial Open: 1/2 inches
 5 minutes - 4 inches
 10 minutes - 8 inches
 15 minutes - 13 inches

Final Open: 5 minutes - 6 inches
 10 minutes - 7 inches
 15 minutes - 9 inches
 20 minutes - 12 inches
 25 minutes - 12 inches
 30 minutes - 14 inches
 35 minutes - 14 inches
 40 minutes - 14 inches
 45 minutes - 14 inches

Recovery: 801 Total feet
 35' Clean oil and heavy oil cut mud
 766' Sulfur water (41,900 p.p.m. Chlorides)

IHP 1946 P.S.I.
 IFP 39-147 P.S.I.
 ISIP 1021 P.S.I.
 FFP 182-364 P.S.I.
 FSIP 1021 P.S.I.
 FHP 1932 P.S.I.

Temperature 129^oF

DST #3

Lansing "D" Zone

Open Hole Test

3992' - 4006' (Rotary Depth)

15-30 15-30

Initial Open: Very weak surface blow, dying in 13 minutes.

Final Open: No return blow.

Recovery: 5 Total feet
 5' Drilling mud

IHP 1951 P.S.I.
 IFP 16-16 P.S.I.
 ISIP 1206 P.S.I.
 FFP 18-18 P.S.I.
 FSIP 1126 P.S.I.
 FHP 1934 P.S.I.

Temperature 112^oF

DST #4

Lansing "E-F" Zones

Straddle Test

4026' - 4044' (Electric Log Depth)

15-30-45-90

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Initial Open: 1 inch
 5 minutes - 4 inches
 10 minutes - 6 inches
 15 minutes - 9 inches

Final Open: 5 minutes - 2 1/2 inches
 10 minutes - 5 inches
 15 minutes - 8 inches
 20 minutes - 10 inches
 25 minutes - 12 inches
 30 minutes - 14 inches
 35 minutes - 15 inches
 40 minutes - 15 inches
 45 minutes - 15 inches

Recovery: 612 Total feet
 612' Salt water (41,400 p.p.m. Chlorides)

IHP 2036 P.S.I.
 IFP 29-88 P.S.I.
 ISIP 1196 P.S.I.
 FFP 108-265 P.S.I.
 FSIP 1186 P.S.I.
 FHP 2031 P.S.I.

Temperature 132°F

DST #5

Toronto
 Straddle Test
 3921' - 3944' (Electric Log Depth)
 15-30-45-90

Initial Open: Surface blow
 5 minutes - 1/2 inches
 10 minutes - 1 inch
 15 minutes - 1 1/2 inches

Final Open: Surface blow
 5 minutes - 1/4 inch
 10 minutes - 1/2 inch
 15 minutes - 3/4 inches
 20 minutes - 3/4 inches
 25 minutes - 3/4 inches
 30 minutes - 3/4 inches
 35 minutes - 3/4 inches
 40 minutes - 3/4 inches
 45 minutes - 7/4 inches

Recovery: 59 Total feet
 59' Slightly oil and water cut drilling mud (20% oil, 10% water 88% mud)

IHP 1986 P.S.I.
 IFP 13-16 P.S.I.
 ISIP 1116 P.S.I.
 FFP 16-23 P.S.I.
 FSIP 1116 P.S.I.
 FHP 1986 P.S.I.

Temperature 122°F

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DIRECTIONAL SURVEYS

262' - $1\frac{1}{2}^{\circ}$
 2263' - 1°
 3959' - 1°
 4240' - $1\frac{1}{4}^{\circ}$

ZONES OF INTEREST

<u>Log Depth</u>	<u>Description, Comments</u>
3938' - 3-44' - Toronto	Limestone, off-white-light gray, fine crystalline, chalky, mostly even brown stain, good show free oil, fair odor, fair fluorescence, good-excellent streaming cut; some very fine crystalline, tight, spotty stain and visual to good pin point porosity. Great Guns Electric Logs calculate an average porosity of 9.75% and an average water saturation of 38%. DST #5 straddle test, tested this zone and recovered 59 feet of slightly oil and water cut drilling mud.
3952' - 3958' - Lansing "A" Zone	Limestone, buff, rare gray, very fine-fine crystalline, scattered brown stain, excellent show free oil, excellent odor, good fluorescence, excellent streaming cut, some dense, some chalky, fair-good pin point porosity. Great Guns Electric Logs calculate an average porosity of 10.5% and an average water saturation of 46.6%. DST #1 covered the Toronto and the top two (2) feet of the Lansing "A" zone and recovered 40 feet of heavy oil cut mud and 600 feet of sulfur water. DST #2 covered the lower part of this zone (3954' to 3986') and recovered 35 feet of clean oil and heavy oil cut mud and 766 feet of sulfur water.
3991' - 3998' - Lansing "D" Zone	Limestone, gray, fine crystalline, nodular, mostly even brown stain, good show free oil, excellent odor, fair fluorescence, excellent streaming cut, good pin point porosity. Limestone, off-white-buff, some gray, tan, mostly fine crystalline, scattered stain, good show free oil, excellent odor, good fluorescence, excellent cut, fair pin point porosity. DST #3 covered this interval and recovered 5 feet drilling mud. Great Guns Electric Logs show the zone to be shaley and/or tight.
4019' - 4022' - Lansing "E" Zone	Limestone, light-medium gray, very fine crystalline, dense, scattered black stain, NSFO; gray, fine crystalline, fair show free oil, no fluorescence, fair-good cut, fair pin point porosity. Great Guns Electric Logs calculate a 7.5% porosity and 53% water saturation.

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Log Depth

Description, Comments

4028' - 4034' - Lansing "F" Zone

Limestone, light gray, very fine crystalline, mostly scattered brown-black stain, good show free oil, rare fluorescence, excellent cut, poor pin point porosity. Great Guns Electric Logs calculate an average porosity of 8% and an average water saturation of 38.6%. DST #4 straddle test, tested this zone and recovered 612 feet of salt water.

4052' - 4058' - Lansing "G" Zone

Limestone, tan-light brown, very fine-fine crystalline, rare spotty black stain, fair show free oil, slight fluorescence, good streaming cut, no visual porosity. Great Guns Electric Logs calculate a 4.5% porosity and a 55% water saturation, zone is tight.

4111' - 4116' - Lansing "I" Zone

Limestone, buff-tan, very fine-fine crystalline, mostly even black stain, fair show free oil, fair fluorescence, good cut, no odor, no-fair pin point porosity, zone appears tight.

4135' - 4138' - Lansing "J" Zone

Limestone, off-white-buff, fine crystalline, some oolitic and chalky, scattered brown stain, fair show free oil, good fluorescence, good cut, slight odor, fair pin point porosity. Zone appears very tight.

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SUMMARY

Structurally, the Mosier #8-1 test well ran low throughout the well to Reference Well "A", one-half mile to the Northwest (Imperial Oil Co., Mosier #1, NW-SW-8-T9S-R28W, D & A) and high or even to Reference Well "B", one-half mile to the East (Imperial Oil Co., Pratt #1, SW-SW-9-T9S-R28W, D & A). The Lansing Formation in the test well ran nine (9) feet low and one foot high to Reference Wells A & B respectively. Although Reference Well "A" is higher structurally, its drill stem test recoveries indicate the Lansing/Kansas City to be tight, while, the test well recovered some oil on drill stem tests #1 and #2.

Numerous sample shows encountered throughout the test well, with most occurring in the Lansing/Kansas City Group. Although Electric Logs showed numerous zones that calculated low water saturation, specifically the Toronto Limestone, Lansing "A", and Lansing "F" zones, all were drill stem tested and failed to recover commercial quantities of hydrocarbons. (DST's #1-3 were open hole tests while DST's #4-5 were straddle tests run after Electric Logs).

Therefore, based on the poor drill stem test recoveries, it was recommended that the Mosier #8-1 test well be plugged and abandoned as a dry hole.

Respectively Submitted,



Richard J. Hall

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