ORIGINAL

STATE CORPORATION CORMISSION OF KANSAS OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM ACO-1 WELL HISTORY	API NO. 15- 185-22,647-0000 County Stafford East
DESCRIPTION OF WELL AND LEASE	NW SW NE sec. 5 Twp. 23 Rge. 14 East West
Operator: License #	Ft. North from Southeast Corner of Section
Name: Duke Drilling Co., Inc.	2310 V Ft. West from Southeast Corner of Section
Address 310 West Central - Suite 117	(NOTE: Locate well in section plat below.) Lease Name Selhe // Well # 6
	Field Name Crissman North Wood
city/State/Zip Wichita, KS 67202	Producing Formation LKC
Purchaser:	Elevation: Ground 1955 KB 1963
Operator Contact Person: Ralph R. Hamilton	Total Depth 4080 PBTD.
Phone (316) 267-1331	7510
Contractor: Name: Duke Drilling Co., Inc.	4950
License:5929	
License: 5929 Wellsite Geologist: 1m Musgrove	5-4-90
Designate Type of Completion New Well Re-Entry Workover	1990 2640 N
X Oil SMD Temp. Abd. Gas Inj Delayed Comp. Dry Other (Core, Water Supply, etc.) RECTIVED Operator: STATE CORPORATION COMME	2640 2310 1980 1650 1320 960 660 330
Well Name:	Amount of Surface Pipe Set and Cemented at
Comp. Date Old Totaty Pepth ATION BIVISION Wichita, Kansas \pm Mud Rotary Air Rotary Cable $1-27-90$ $2-3-90$ $2-12-90$ Spud Date Date Reached TD Completion Date	Multiple Stage Cementing Collar Used?Yes X No If yes, show depth set Feet If Alternate II completion, cement circulated from
	feet depth tow/sx cmt.
Derby Building, Wichita, Kansas 67202, within 120 days 82-3-106 apply. Information on side two of this form will writing and submitted with the form. See rule 82-3-wireline logs and drillers time log shall be attached with form with all plugged wells. Submit CP-111 form with a conversion of a well requires filing of ACO-2 within 120 da	be held confidential for a period of 12 months if requested in 107 for confidentiality in excess of 12 months. One copy of all this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 old temporarily abandoned wells. Any recompletion, workover or many from commencement date of such work.
Signature Janea P. Tara	K C C DEFICE ISE ONLY

Title President Date 4/25/90

Subscribed and sworn to before me this 25 day of April , 19 90.

Notary Public H.D. Boyd H.D. Bo

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Dfillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other

(Specify)

ORIGINAL

Form ACO-1 (7-89)

Anhydrer	S	4](140)
Heel:		-3115
Toronta	3439	-1467
Douglas	3445	-1485
Brown Lime	3540	-1577
Lansing	3552	-1589
Base-Kansas City	3789	-1826
Conglomerate	3865	-1902
Viola	3914	-1951
Simpson	3988	-2025
Simpson Sand (3')	3991	-2028
Simpson Sand (3')	3999	-2036
Simpson Sand (8')	4006	-2043
Simpson Sand (41)	4034	-2071
Arbuckle	4044	-2081
Electric Leg Total Depth	408]	-2118

(All depths are corrected to the Electric Log measurements)

(Lansing 'H' Zone) DRILL STEM TEST #1 - 3666-3685'

ORIGINAL

Open:

45~30"

Blow:

Weak for 35"

Recovery:

5 feet mud, few specks oil

Pressures:

91 p.s.i. (45") ISIP 81 p.s.i. (45")

FSIP

(61-61)(61-61) p.s.i. FP

1872-1802 p.s.i. HSH

1007.5-6000 - 24 TOOL WATO INTIM

Open:

45-45"

Blow:

Fair to weak

Recovery:

70 feet mud cut oil

60 feet muddy oil cut water ISIP 367 PSI (45")

Pressures:

ISIP FSIP

316 psi (45") (81-81) (112-112) \mathbf{FP}

1882-1862 psi HSH

OPP D VAM Voi Wighlis Kansas

ORIGINAL

SIDE ONE

STATE CORPORATION COUNTSSION OF KANSAS	API NO. 15- 185-22,64/-2000
OIL & GAS CONSERVATION DIVISION LEEL COMPLETION FORM	County Stafford
ACO-1 VELL HISTORY	NW SW NE Sec. 5 Twp. 23 Rge. 14 East West
DESCRIPTION OF WELL AND LEASE	0.00
Operator: License # 5929	$\frac{3630}{}$ ν Ft. North from Southeast Corner of Section
Name: Duke Drilling Co., Inc. Condor	2310 Ft. West from Southeast Corner of Section
Address 310 West Central - Suite 117	(NOTE: Locate well in section plat below.)
	Lease Name Selhe Well # 6
city/State/Zip Wichita, KS 67202	Field Name Wood Da ucc
Purchaser:	Producing Formation NANSAS CITY QQ NCC
Operator Contact Person: Ralph R. Hamilton	Elevation: Ground1955 KB1963
Phone (316) 267-1331	Total Depth 4080 PBTD
Contractor: Name: Duke Drilling Co., Inc.	5280 4950
•	4620
License: 5929	3960 3630
Wellsite Geologist:	3300
Designate Type of Completion	2540
x New Well Re-Entry Workover	
x Oil SND Temp. Abd.	1650
X Oil SMD Temp. Abd. Gas Inj Delayed Comp. W	990 660
16 CIP and and income City	330 A A A A A A A A A A A A A A A A A A
Operator:	7 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2
Well Name:	Amount of Surface Pipe Set and Cemented at
Comp. Date Old Total Depth	Multiple Stage Cementing Collar Used?YesNo
Drilling Method:	If yes, show depth set Feet
x_ Mud Rotary Air Rotary Cable	
1-27-90 2-3-90 2-12-90 Spud Date Date Reached TD Completion Date	If Alternate II completion, cement circulated from
Spud Date Date Reached TD Completion Date	feet depth to sx cmt.
Derby Building, Wichita, Kansas 67202, within 120 days 82-3-106 apply. Information on side two of this form will writing and submitted with the form. See rule 82-3-	be held confidential for a period of 12 months if requested in 107 for confidentiality in excess of 12 months. One copy of all this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 ll temporarily abandoned wells. Any recompletion, workover or
All requirements of the statutes, rules and regulations promule with and the statements herein are complete and correct to the	gated to regulate the oil and gas industry have been fully complied he best of my knowledge.
Signature James P. Davis James P. Davis	K.C.C. OFFICE USE ONLY
_	F Letter of Confidentiality Attached (25/90 Wireline Log Received
Subscribed and sworn to before me this 25 day of Apri	
19 90.	Distribution KCC SWD/Rep NGPA
Notary Public H.D. Boyd A DIMY FUELD	KGS Plug Other
Date Commission Expires 9-2-93	D. COYD (Specify)

כשר BDI2

Operator Name Duke	Drilling	Co., In	.c	Lease Name	Selbe		Well#	6
	ſ	East			Staffor			
Sec. 5 Tup. 23 R	14	X West			ULallUL	· · · · · ·		
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 (Attach Additional S	heets.)	⊠ _{Yes} [□ No			Formation Desc	ription	
Samples Sent to Geologi	cal Survey	☐ _{Yes} {			🛛 Log 🗀 Sample			
Cores Taken		☐ _{Yes} {	X No	Name		Top	Bott	om
Electric Log Run (Submit Copy.)		∑ _{Yes} [□ No					
				1		-	•	
							٠.	
								~~.
•								Ä
			IG RECORD					
•	Report al			New 🔯 Letor, surface, i		production, et	c .	
Purpose of String	Size Hole Drilled	Size Ca Set (In	-	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface .	12}"	8-5/8"		23#	318'	60/40poz	175	2% gel 3% c¢
Production	_7-7/8" _	<u>5 } ''</u>		14#	4070	60/40 _{poz_}	<u> 175 </u>	Salt_Sat
						_		
Shots Per Foot Sp	PERFORATION ecify Footag		nterval F	Perforated	Acid, Fracture, Shot, Cement Squeeze Record ed (Amount and Kind of Material Used) Depth.			
4 3	 3756-61				500 ga	1. MCA		
4	3 <u>711-20</u>				500 ga			
3674-81 Squeezed 15				150 sx	60-40 po			
-4	3711-20			250 gl., 15% NE				
	3674-81 CIBP @ 3	3700			l			
	3 <u>674-80</u> ize	Set At		Packer At	150 ga Liner Run	1,28% NE;	<u>250 g</u> a	l Mud Acid gal. SGA
}	3/8"	369		racker At	Lines Rais	Li Yes は	No	941. 55
Date of First Producti 2-26- 90			Flowing	⊠ _{Pumping} ∐ (ias Lift 🗀 (Other (Explain)		
Estimated Production Per 24 Hours	oil 5	Bbls.	Gas	Mcf Wate		Gas-Oil	Ratio	Gravity 24
Disposition of Gas: INSTRUM Production Interval								
Vented Sold Used on Lease Open Hole Perforation Dually Completed Commingled (If vented, submit ACO-18.)								
			Other	(Specify)	The state of the s	· · · · · · · · · · · · · · · · · · ·	_	
				in the first of the second	. Joe	1		

Anhydri() Hôch or Toron()	- 833 343 3430	ORIGINAL	+1030 -3445 -1467
Douglas	3448		-]185
Brown Lime	3540		-1577
Lansing	3552	* _* Z ₁ ,3	-1589
Base-Kansas City	3789	, ,	-1826
Conglomerate	3865		-1902
Viola	3914		-1951
Simpson	3988		-2 025
Simpson Sand (3')	3991		-2028
Simpson Sand (3')	3999		-2036
Simpson Sand (8')	4006		-2043
Simpson Sand (4')	4034		-2071
Arbuckle	4044		-2081
Electric Log Total Depth	4081		-2118

THERE

(All depths are corrected to the Electric Log measurements)

DRILL STEM TEST #1 - 3666-3685' (Lansing 'H' Zone)

THE WAY

Open:

45~30"

Blow:

Weak for 35"

Recovery:

5 feet mud, few specks oil

Pressures:

91 p.s.i. (45") ISIP 81 p.s.i. (45") FSIP

(61-61)(61-61) p.s.i. FP

1872-1802 p.s.i. HSH

JU04-310U~ DRIDD GER IDOL

3684-3760

Open:

45-45"

Blow:

Fair to weak

Recovery:

Pressures:

70 feet mud cut oil

60 feet muddy oil cut water ISIP 367 PSI (45") ISIP

316 psi (45") FSIP

(81-81) (112-112)FP

 ${\tt HSH}$ 1882-1862 psi

MAY 0 1 1090

J.C. MUSGROVE

Certified Petroleum Geologist #1627 ORIGINAL
PO. Box 1162

Res. (316) 793-9152

GEOLOGICAL REPORT

(A.P.I. 15-185-22, 647)

Condor Energy, Inc. (Duke Dryl. Co.) #6 Selbe

Office (316) 792-7716

NW NW NE Section 5-23S-14W

Stafford County, Kansas

5 1/2" CASING SET

CONTRACTOR: Duke Drilling (Rig #4)

COMMENCED: 1-27-90

COMPLETED: 2-3-90

ELEVATIONS: 1963' K.B., 1955' G.L.

CASING PROGRAM:

Surface - 8 5/8" @ 318' Production - 5 1/2" @ 4070'

MEASUREMENTS: All depths measured from the Kelly

Bushing.

SAMPLES: Samples saved 3200' to the R.T.D.

DRILLING TIME: One (1') foot drilling time recorded

by drillers, 3200' to the R.T.D.

ELECTRIC LOG: Halliburton Logging Services:

Radiation Guard, Side-Wall Neutron

and Caliper.

There were two (2) drill stem tests run by Western Testers. FORMATION TESTING:

FORMATION	ELECTI	RIC LOG DEPTH	··	SUB-SEA DATUM
Anhydrite		883		+1080
Heebner		3408		-1445
Toronto		3430		-1467
Douglas		3448		-1485
Brown Lime		3540		-1577
Lansing		3552		-1589
Base-Kansas City		3789		-1826
Conglomerate		3865		-1902
Viola		3914		-1951
Simpson		3988		-2025
Simpson Sand (3')	·	3991		-2028
Simpson Sand (3')		3999		-2036
Simpson Sand (8')	1	4006		-2043
Simpson Sand (4')		4034	•	-2071
Arbuckle		4044		-2081
Electric Log Total	Depth	4081		-2118

(All depths are corrected to the Electric Log measurements)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

LANSING SECTION

3554-3560' ('A' Zone)

Limestone; gray to cream, slightly

ORIGINAL

Condor Energy, Inc. #6 Selbe

Page Two

fossiliferous, chalky; no shows of oil.

3572-3578' Limestone; cream to white, oolitic, few pieces medium crystalline, fair ('B' Zone)

crystalline porosity, spotty stain,

trace free oil, questionable odor in

in fresh samples.

3594-3598' Limestone; white, fossiliferous, chalky. ('D' Zone)

Light brown to golden stain and slight show of free oil. No odor in fresh

samples.

3624-3628' Limestone; tan, fossiliferous, cherty ('F' Zone) in part, scattered calcite crystals in

crystalline porosity. Trace cream to white sub-oocastic limestone. No shows.

3639-3664' Limestone; cream to gray, fossiliferous

('G' Zone) to sub-oocastic. No shows of oil.

3675-3681' Limestone; gray, oocastic, fair oocastic porosity. Fair stain and saturation. ('H' Zone)

Fair show of free oil (gassy).

odor in fresh samples.

DRILL STEM TEST #1 - 3666-3685' (Lansing 'H' Zone)

45-30" Open:

Blow: Weak for 35"

5 feet mud, few specks oil Recovery:

91 p.s.i. (45") 81 p.s.i. (45") Pressures: ISIPFSIP

(61-61)(61-61) p.s.i. FP

1872-1802 p.s.i. HSH

3695-37001 Limestone; tan oolitic, slightly cherty. ('I' Zone)

Poor visible porosity. Scattered brown to dark brown stain. Trace free oil.

3711-3720' Limestone; gray, oolitic to oocastic, ('J' Zone)

fair oocastic porosity. Spotty brown to black stain. Show free oil (heavy,

black) and questionable odor.

3738-3743' ('K" Zone) Limestone; gray oolitic, chalky in part,

dark black stain. Show free oil, no

odor.

DRILL STEM TEST #2 - 3684-3760'

45-45" Open:

Fair to weak Blow:

70 feet mud cut oil Recovery:

60 feet muddy oil cut water

OPP 1 O YAM -2-Unasking Kanega

Condor Energy, Inc. #6 Selbe

Page Three

ORIGINAL

Pressures: ISIP

367 p.s.i. (45") 316 p.s.i. (45") FSIP (81-81)(112-112) \mathbf{FP}

HSH 1882-1862 p.s.i.

3771-37761

Limestone; oolitic to oocastic. Scattered ('L' Zone) oocastic porosity. Light brown to dark black stain. Trace free oil. No odor.

Trace mottled gray, mealy fossiliferous.

Brown stain and saturation.

There were no zones in the Conglomerate or Viola sections to warrant any further testing.

SIMPSON SECTION

3991-3994' Few very fine grained quartz sand

clusters. Weak show free oil and no

odor in fresh samples.

3999-4002' Sand, as above.

4006-4013' Sand; clear to gray, fine grained

glauconitic. Fair scattered inter-granular

porosity, friable. Dull brown stain. Trace free oil (dead), no odor in fresh

samples.

Sand; gray to mottled gray, consolidated, 4034-40381

poor visible porosity. Argillaceous, glauconitic. Spotty stain. Trace free oil. No odor. Poor scattered fluoresence.

ARBUCKLE SECTION

Dolomite; gray to buff. Finely crystalline to sucrosic. No shows of oil. 4044-4055'

4045-4080'

Dolomite, as above, plus gray fine to medium crystalline dolomite, fair scattered inter-crystalline porosity

and white oolitic chert. No shows of oil.

ELECTRIC LOG TOTAL DEPTH: 4081 (-2118)

RECOMMENDATIONS:

It was recommended that 5 1/2" casing be set and cemented at 4070 feet and the "H', 'I', 'J' and 'K' zones in the Lansing section be perforated and tested for production. If production results are unfavorable, the well can then be used as a water injection well, to repressure the Lansing wells on the Selbe lease.

Respectfully submitted,

C. Musg ames etroleum Geologist

JCM:ac

. Musgrove Petroleym Geologi

J. C. MUSGROVE jes 1627

PETROLEU

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Promite Meritaria