

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 # 5916
Name Conoco Inc.
Address 3817 N.W. Expressway
City/State/Zip Oklahoma City, OK 73112

Purchaser.....

Operator Contact Person Glen Hughes
Phone (316) 793-7871

Contractor: License # 5842
Name Gabbert-Jones Inc.
830 Sutton Pl., Wichita, KS 67202

Wellsite Geologist.....
Phone.....

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

If OWHO: old well info as follows:
Operator.....
Well Name.....
Comp. Date..... Old Total Depth.....

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
8-28-72 9-8-72 10-12-88
Spud Date Date Reached TD Completion Date
4715 4690
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 500 feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 16.76 feet
If alternate 2 completion, cement circulated from 16.76 feet depth to 0 w/ 325 SX cmt
Cement Company Name.....
Invoice # 3-6-89

API NO. 15-083-20236-0001
County Hodgeman
C NW SE 33 21S 24 East
1980 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

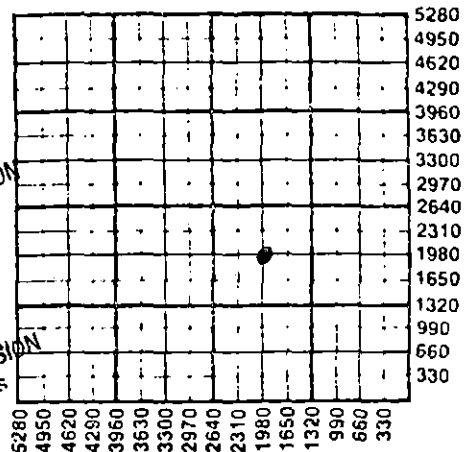
Lease Name Deutsch Well # 2

Field Name Bindley

Producing Formation Mississippi dolo

Elevation: Ground 2407' KB 2414'

Section Plat



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CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # E-23,911 X Repressuring

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.

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 [Signature]
Title Supervisor-Regulatory Affairs Date 11-2-88

Subscribed and sworn to before me this 28th day of November 1988
Notary Public Janice Harlett
Date Commission Expires April 29, 1989

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)

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11-14-88

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CONSERVATION DIVISION
Wichita, Kansas

2-8-89

Form ACO-1 (5-86)

Sec. 33
Twp. 21
Rge. 24

SIDE TWO

Operator Name Conoco Inc. Lease Name Deutsch Well # 2

Sec. 33 Twp. 21S Rge. 24 East West County Hodgeman

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

See Attached

Formation Description
 Log Sample

Name	Top	Bottom
Anhydrite	1662	
Heebner	3911	
Lansing	3960	
Stark Shale	4229	
Base Kansas City	4343	
Ft. Scott	4488	
Cherokee	4513	
Conglomerate	4591	
Mississippi dolo	4592	
Osage	4648	
TD	4715	

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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"	28#	564'	Common	300	3% CC 2% GEL
Production		5 1/2"	14#	4714'	Howcolite	575	
Tubing		2 3/8"	4.6#				
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
	4593-4596' : 4598-4600' : 4616-4624'			750 gal. 1590 HCl			
				1 gal. CI-2			
				5 gal. Ferrotral 300L			
				3 gal. NF-7			
				250 gal. xylene			
TUBING RECORD		Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No		
				4561'			
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

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

RICHARD K. GRANT
CONSULTING GEOLOGICAL ENGINEER
MEASUREMENTS
WICHITA, KANSAS 67206
830 SUTTON PLACE
SEPTEMBER 14, 1972

TELEPHONE
RES. 885-7700
OFF. 267-8534

GEOLOGICAL REPORT

RECEIVED
STATE CORPORATION COMMISSION

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CONSERVATION DIVISION
Wichita, Kansas

OASIS PETROLEUM, INC. #2 DEUTSCH
C NW SE SECTION 33-21-24 WEST
HODGEMAN COUNTY, KANSAS

ELEVATION: 2414' K. B.

COMMENCED: AUGUST 28, 1972
COMPLETED: SEPTEMBER 8, 1972

CASING: 8-5/8" @ 564' w/300 SX CEMENT.
5 1/2" @ 4714' w/250 SX CEMENT. (DV TOOL @ 1676' w/325 SX CEMENT.)

FORMATION TOPS:

	OASIS #2 DEUTSCH C NW SE 33-21-24W	OASIS #1 DEUTSCH C NE SE 33-21-24W	OASIS #2 BINDLEY C SW NE 33-21-24W
ANHYDRITE	1670(+ 744)	1670(+ 753)	1680(+ 755)
HEEBNER SHALE	3910(-1496)	3920(-1497)	3933(-1498)
LANSING	3960(-1546)	3970(-1547)	3982(-1547)
FORT SCOTT	4488(-2074)	4500(-2077)	4515(-2080)
CHEROKEE	4514(-2100)	4526(-2103)	4542(-2107)
MISSISSIPPIAN	4592(-2178)	4612(-2189)	4622(-2187)
TOTAL DEPTH	4714(-2300)	4723(-2300)	4731(-2296)

ZONES OF POROSITY & STAINING:

MISSISSIPPIAN SECTION

4592-4602

TRACE OF FINELY SUCROSE DOLOMITE, SLIGHTLY VUGGY,
WITH FAIR TO GOOD SHOW FREE OIL & SATURATION IN
30" CIRCULATING SAMPLE AT 4602 FEET.

CORE #1 4602-16:

- 4602-03 1/2
- 4603 1/2-05 1/2
- 4605 1/2-06
- 4606-09
- 4609-10
- 4610-14 1/2
- 4614 1/2-16

DOLOMITE, PARTLY SHALY, BLEEDING OIL.
MOSTLY GREEN WAXY SHALE, FEW PIECES DOLOMITE BLEEDING.
6" DOLOMITE BLEEDING OIL.
DENSE DOLOMITE WITH NO SHOW. ABUNDANT SHALE PARTINGS.
DOLOMITE WITH FAIR POROSITY BLEEDING OIL.
DENSE GREEN DOLOMITE WITH GREEN SHALE LAMINATIONS.
FRACTURED VUGGY DOLOMITE. FAIR SHOW OIL.

CORE #2 4616-55:

- 4616-16 1/2
- 4616 1/2-17
- 4617-18 1/2

SLIGHTLY POROUS VUGGY DOLOMITE, SLIGHTLY SHALY. SHOW OIL.
TIGHT DOLOMITE. NO SHOW.
POROUS VUGGY DOLOMITE, FRACTURED, BLEEDING OIL.

ZONES OF POROSITY & STAINING, CONT'D.

MISSISSIPPIAN SECTION, CONT'D.

CORE #2, CONT'D.:

4618 $\frac{1}{2}$ -20	TITE FRACTURED DOLOMITE. NO SHOW.
4620-20 $\frac{1}{2}$	VUGGY DOLOMITE -- SLIGHT SHOW.
4620 $\frac{1}{2}$ -21 $\frac{1}{2}$	TITE DOLOMITE. NO SHOW.
4621 $\frac{1}{2}$ -27	5 $\frac{1}{2}$ ' EVENLY SATURATED DOLOMITE.
4627-29	DENSE DOLOMITE. ONLY A 2" STREAK WITH A SHOW.
4629-33	4' EVENLY SATURATED DOLOMITE, BLEEDING OIL.
4633-37	4' UNEVEN SATURATION, BLEEDING.
4637-39	2' DENSE, MOSTLY, BUT FEW THIN STREAKS BLEEDING.
4639-42	DENSE DOLOMITE. NO SHOW.
4642-45	DENSE DOLOMITE WITH VERTICAL FRACTURES.
4645-48	POROUS DOLOMITE. NO SHOW.
4648-52	DENSE DOLOMITE WITH WHITE CHERT NODULES.
4652-55	SAME, WITH FEW HORIZONTAL LAMINATIONS BLEEDING OIL.

NOTE: THIS EXAMINATION NOT MICROSCOPIC. (DID NOT BREAK UP CORE BEFORE SENDING TO CORE LAB.

DST #1 4604-55: OPEN 30", SI 45", OPEN 90", SI 60". STRONG BLOW THROUGHOUT. RECOVERED 530' GAS IN THE PIPE, 600' CLEAN OIL, 520' MUDDY OIL & HEAVY OIL CUT MUD, NO WATER.
IFP=66#-84#. FFP=223#-395#.
ICIP=1227#/45". FCIP=1194#/60".
IHP=2410#. FHP=2366#.
TEMPERATURE 137° F.

STRUCTURAL POSITION:

THIS WELL IS APPROXIMATELY FLAT ON THE HEEBNER SHALE, BUT THE HIGHEST WELL IN THE POOL THUS FAR ON TOP OF THE PRODUCTIVE MISSISSIPPIAN HORIZON.

RECOMMENDATION:

IN VIEW OF THE POSITIVE DRILL STEM TEST, THE GOOD SHOW IN THE CORE, AND THE FAVORABLE STRUCTURAL POSITION, PIPE WAS RECOMMENDED RUN 1' OFF BOTTOM TO COMPLETE IN THE MISSISSIPPIAN DOLOMITE.

RESPECTFULLY SUBMITTED,

Richard K. Grant

RICHARD K. GRANT