

ORIGINAL

CONFIDENTIAL

SIDE ONE

RELEASED

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 165-21,553 -0000
County Rush

MAY 20 1992

SW SW SE Sec. 18 Twp. 17S Rge. 17 X East West

Operator: License # 30658

330 Ft. North from Southeast Corner of Section

Name: ANR Production Company

2260 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Address 211 N. Robinson, Suite 1700
One Leadership Square

Lease Name Hertel Well # 1

City/State/Zip Oklahoma City, Okla. 73102

Field Name Wildcat

Producing Formation Dry

Purchaser: N/A

Elevation: Ground 2061 KB

Operator Contact Person: John D. Perry

Total Depth 3710' P8TD

Phone (405) 239-7031

Contractor: Name: Allen Drilling Company

License: 5418

Wellsite Geologist:

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

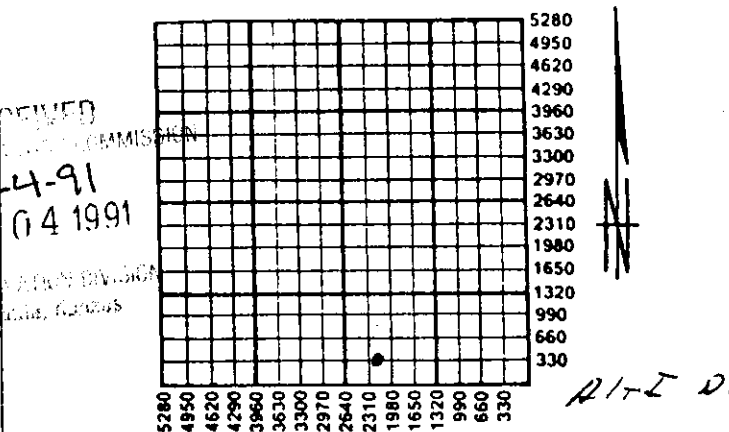
Operator:

Well Name:

Comp. Date Old Total Depth

Drilling Method:
 Mud Rotary Air Rotary Cable

3-17-91 3-22-91 3-22-91
Spud Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 1180 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

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AITI DVA

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

X Signature [Signature]
Title Dist. Drlg. Superintendent Date 4/1/91
Subscribed and sworn to before me this 2nd day of April, 1991.
Notary Public Linda Black
Date Commission Expires November 28, 1994

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution
 KCC SWD/Rep NBPA
 KGS Plug Other
(Specify)

15-165-21553-0000

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DRILLSTEM TEST REPORT

MAY 20 1992

FROM CONFIDENTIAL
Date: 03/21/91

Prospect Name:

Well Name: Hertel #1-18

DST No. 2 Test Interval: 3580-3630'

Formation Tested: Base Penn Sand

Initial Flow: 15 Min Blow F/6" below surface of water.

Initial Shut-in: 45 min.

Final Flow: 30 min. Blow F/8" below surface of water.

Final Shut-in: 90 min.

Recovery:

20	Ft &	.28	Bbls	Gas Cut DM
	Ft &		Bbls	
	Ft &		Bbls	
	Ft &		Bbls	

Flowing DST Data _____

Chlorides: Recoveries 4500 ppm Rw 1.5 @ 60 °F
 pH _____ ppm
 Sample Chamber: 3150 cc volume Pressure 40 psi
 Recovery: 2750 cc DM, gas 1.77 cu ft.

Depth of Bomb	Pressures		
	Top 3622	Middle	Bottom 3625
Initial Flow	<u>41</u> to <u>41</u>	_____ to _____	<u>52</u> to <u>52</u>
Initial Shut-in	<u>41</u> to <u>93</u>	_____ to _____	<u>52</u> to <u>95</u>
Final Flow	<u>41</u> to <u>41</u>	_____ to _____	<u>52</u> to <u>52</u>
Final Shut-in	<u>41</u> to <u>114</u>	_____ to _____	<u>52</u> to <u>116</u>
Initial Hydrostatic	<u>1786</u> to _____	_____ to _____	<u>1778</u> to _____
Final Hydrostatic	<u>1765</u> to _____	_____ to _____	<u>1768</u> to _____

Temperature 108 °F Surface Choke 3/4 Bottom Choke 3/4

REMARKS:

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APR 04 1991

CONSERVATION DIVISION
Wichita, Kansas



P.O. Box 4442
Houston, Texas 77210

15-1105-21553-0000

JOP, EPR, TRANK
FILE
STAGE NO.

COPY CEMENTING LOG

Date 3-15-91 District HAYS Ticket No. 62763
 Company A.P. Production Rig Allen Dgs #3
 Lease Hertz Well No. 1
 County Kush State Tx
 Location 4N 25E/46/3532

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 24 Type 24 Weight 24 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 13 1/4 T.D. 1103 ft. P.B. to _____ ft.

CAPACITY FACTORS
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. .1452 Lin. ft./Bbl. 6.899
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. .0732 Lin. ft./Bbl. 13.6032

Perforations: From _____ ft to _____ ft Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

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LEAD: Pump Time _____ hrs. Type _____
60/No 2% Gel 3% CC 1/2 cell Excess _____
 Amt. 690 Skys Yield 1.26 ft³/sk Density 14.5 PPG

TAIL: Pump Time _____ hrs. Type _____
Common 3% CC Excess _____
 Amt. 100 Skys Yield 1.15 ft³/sk Density 15.69 PPG
 WATER: Lead 5.62 gals/sk Tails 15 gals/sk Total 104.6 Bbls

Pump Trucks Used 46079 - Dura
 Bulk Equip. 2030 - Lark
2036 - Lark
2035 - Robert

Float Equip: Manufacturer BAKER
 Shoe: Type Cement Plug Depth _____
 Float: Type AEU Depth _____
 Centralizers: Quantity 5 Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip _____
 Disp Fluid Type water Amt. 5.3 Bbls. Weight 1.31 PPG
 Mud Type _____ Weight 9.2 PPG

COMPANY REPRESENTATIVE Charles Farnell

CEMENTER Bill R. Johnson

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
						RELEASED
						Run 26 lbs of 8 1/2" 24" CG 1 lb of 1/2" pipe out at 1181.10
						MAY 20 1991 5-2-82 Invent at 1152'
						FROM CONFIDENTIAL
			92.3			Run 15 bbl. Fresh water ahead of Cement Cement w/ 6% PVC 60/40 P02 3% CC 2% Gel 1/2" cell
			123			Follow up 100 lbs Common Cement 3% Gel chloride
			73.3			plug plug w/ 73.3 bbl. water Cement plug at 100 PSI
						Cement did penetrate to surface Float did Halted 6:34 PM
						Circulated 250 ft of cement to pack plug down 7:45 PM

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4-4-91
 APR 14 1991

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU



P.O. Box 4442
Houston, Texas 77210

COPY CEMENTING LOG

15-165-21553-0000

STAGE NO

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Date 3-22-91 District OAKLEY Ticket No. 609851
 Company COASTAL OIL & GAS Rig Allen Orlg
 Lease Heryel Well No. 41
 County Rush State KS
 Location Lichtenhal 4 1/2 E 65 1/2 W Field

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 60/40 pos
690gel Excess _____

Amt. 115 Sks Yield _____ ft³/sk Density _____ PPG _____

TAIL: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used BSU 2751-6454

Bulk Equip. BSU 2752-6457

Float Equip: Manufacturer _____
 Shoe Type _____ Depth _____

Float Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type water Amt. _____ Bbls. Weight _____ PPG _____

Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE J. B. Adkins

CEMENTER Ron M. Cullick

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
11:00						Arrive log Pre-job safety meeting Set up equip. Hook up & cement 1 st plug 1 st 50 sk @ 1200' 2 nd 40 sk @ 600' 3 rd 10 sk @ 40' w/solid B. 15 sk @ RH Final plug down @ 1:00pm TOTAL 115 sks 60/40 pos 690gel Tank good Run + crew
11:05						
11:10						
11:25						
11:45						
12:40						
12:45						

STATE OF KANSAS
 COMMISSION
 4-11-91
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