

ORIGINAL

RELEASED 10-7-92 KCC OCT 07 1992 SEP 17

SIDE ONE

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

Operator: License # 03628

Name: HARVEST ENERGY COMPANY

Address P.O. BOX 620006

LITTLETON, CO 80162

City/State/Zip

Purchaser: WILLIAMS GAS MARKETING COMPANY

Operator Contact Person: ALAN L. NACKERUD

Phone (303)972-8750

Contractor: Name: CRANDALL DRILLING & TRENCHING, INC.

License: 30480

Wellsite Geologist: ALAN L. NACKERUD

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD Temp. Abd.

X 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:

X Mud Rotary Air Rotary Cable

5/22/91 5/24/91 7/11/91

Spud Date Date Reached TD Completion Date

API NO. 15- 023-20,309-0260 FROM CONFIDENTIAL

County CHEYENNE

APP NW SW Sec. 3 Twp. 35 Rge. 39 X East West

2028 Ft. North from Southeast Corner of Section

4584 Ft. West from Southeast Corner of Section (NOTE: Locate well in section plat below.)

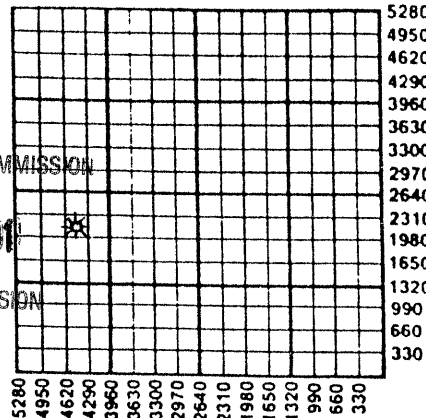
Lease Name SHAY Well # 2-3

Field Name BIRD CITY

Producing Formation NIOBRARA (BEECHER ISLAND)

Elevation: Ground 3360 KB 3365

Total Depth 1410 PBDT 1404



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SEP 20 1991

STATE CORPORATION COMMISSION

Wichita, Kansas

9-20-91

Amount of Surface Pipe Set and Cemented at 350 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

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.

Signature [Signature] Title OWNER Date 9/17/91

Subscribed and sworn to before me this 17th day of September, 1991.

Notary Public Cheryl K. Nobles

Date Commission Expires My Commission expires July 27, 1992

8441 W. Bowles Ave. Littleton, CO 80120

K.C.C. OFFICE USE ONLY
F [X] Letter of Confidentiality Attached
C [X] Wireline Log Received
C [] Drillers Timelog Received
Distribution: [X] KCC [] SWD/Rep [] NGPA [] KGS [] Plug [] Other (Specify)

SIDE TWO

Operator Name HARVEST ENERGY COMPANY Lease Name SHAY Well # 2-3
 Sec. 3 Twp. 3S Rge. 39 East County CHEYENNE
 West

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">Formation Description</th> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td colspan="2" style="text-align: center;"><input type="checkbox"/> Sample</td> </tr> <tr> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> </tr> <tr> <td style="text-align: center;">NIOBRARA</td> <td style="text-align: center;">1238</td> <td style="text-align: center;">-</td> </tr> </table>	Formation Description			<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample		Name	Top	Bottom	NIOBRARA	1238	-
Formation Description													
<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample												
Name	Top	Bottom											
NIOBRARA	1238	-											

CASING RECORD <input checked="" 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	9 7/8	7	20	350	IDEAL	70	-
PRODUCTION	6 1/4	4 1/2	9.5	1404	50/50POZ	75	2% GEL
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
2	1238-40, 1244-46, 1252-54, 1258-60, 1264-66, 1268-72, 1276-78			49,000# 20/40 SAND, 45,000# 10/20 SAND, 60 TONS CO2			SAME
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
N/A		Size	Set At	Packer At			
Date of First Production		Producing Method					
7/14/91		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
			78				

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

Production Interval 1238-1278



P.O. Box 4442
Houston, Texas 77210

CEMENTING LOG

RELEASED

STAGE NO. **KCG**

ORIGINAL

OCT 07 1992

SEP 17

Date 5-24-91 District OKLAHOKS Ticket No. 609860
 Company Harcross Energy Rig Crandall
 Lease SHAW 213 Well No. _____
 County Cherokee State KS
 Location Wholesale Unit-16-16W Field _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skts Yield _____ ft³/sk Density _____ PPG
 FROM CONFIDENTIAL
 CONFIDENTIAL

CASING DATA
 Surfaces Intermediate Production Liner
 Size 4 1/2 Type _____ Weight 9.5 Collar _____

LEAD: Pump Time _____ hrs. Type Solsopos
29acc, 29acc Excess 3090
 Amt. 75 Skts Yield 1.23 ft³/sk Density 14.4 PPG
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Skts Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depth: Top _____ Bottom 1412

Pump Trucks Used 6463
Bulk Equip. BSU 2027

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size 6 1/4 T.D. 1436 ft. P.B. to _____ ft.

Float Equip. Manufacturer Baker
 Shoe: Type _____ Depth 1412
 Float: Type Latexdown Depth 1399
 Centralizers: Quantity 6 Plugs Top _____ Btm _____
 Stage Collars _____
 Special Equip. Mud Sweep 700gal
 Disp. Fluid Type Water Amt. 22.8 Bbls. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.63 Lin. ft./Bbl. 61.54
 Open Holes: Bbls/Lin. ft. 0.379 Lin. ft./Bbl. 263530
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.183 Lin. ft./Bbl. 54.719
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Ron McCallister

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
3:00						Arr loc
6:30						hold prejob safety meeting
7:00						run float equip
9:30						hookup & break wire with pump truck with 5 BRLS water followed by 300gal mud sweep followed by 5 BRLS water followed by 5
9:45						75 also 50150 pos 29acc 29acc release plug
9:50						plug down
10:00						job complete

RECEIVED
STATE CORPORATION COMMISSION

SEP 20 1991

CONSERVATION DIVISION
WICHITA, KANSAS

Ron McCallister
Ron & crew