

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

Operator: License # 09362

Name: Williams Natural Gas Co.

Address Box 580

City/State/Zip Welda, Kansas 66091

Purchaser: _____

Operator Contact Person: Mike Murphy

Phone (913) 448-5888

Contractor: Name: Sterling Drilling

License: 5142

Wellsite Geologist: None

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)
Gas Storage

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

5-7-92 5-12-92 5-22-92

Spud Date Date Reached TD Completion Date

API NO. 15- 159-22326-0000

County Rice

SE - NE - NW - SW Sec. 22 Twp. 21S Rge. 9 X E

4297 Feet from S (circle one) Line of Section

2980 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Alden Storage Well # 16

Field Name Alden

Producing Formation Misener

Elevation: Ground 1670' KB 1679'

Total Depth 3415' K.B. PBDT 3372' K.B.

Amount of Surface Pipe Set and Cemented at 532' K.B. 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.

Drilling Fluid Management Plan ALT 1 9/17/92 JAH
(Data must be collected from the Reserve Pit)

Chloride content 78,000 ppm Fluid volume 1000 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report 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.

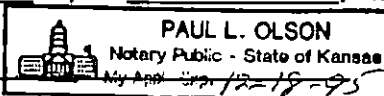
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature William J. Murphy
Title Storage Superintendent Date 7-24-92

Subscribed and sworn to before me this 24 day of July, 1992.

Notary Public Paul L. Olson

Date Commission Expires 12-18-95



RECEIVED
STATE CORPORATION COMMISSION 8-3-92

C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
D Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name Williams Natural Gas Co. Lease Name Alden Storage Well # 16

Sec. 22 Twp. 21S Rge. 9 East West
 County Rice

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
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 Segmented Bond Gamma Ray CCL
 Compensated Density Dual Spaced Neutron
 Dual Induction Laterlog

Name	Top	Datum
Heebner	2793	-1114
Brown Lime	2928	-1249
Lansing	2958	-1279
B-KC	3245	-1566
Conglomerate	3258	-1579
Kinderhook	3273	-1594
Misener	3326	-1647
Maqoketa	3354	-1675

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	12 1/4"	8 5/8"	24	532' KB	60X40 Poz	375	2% Gel 3% C.C.
Production	7 7/8"	5 1/2"	15.5	3410' KB	Lite 50x50 Poz	450 150	6% Gel 2% Gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	92 (shots) 3327' - 3350'	N/A	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION Open Hole Perf. Equally Comp. Commingled Other (Specify)

Production Interval 3327'
3350'



P.O. Box 142
Houston, Tex.

15-159-22326-0000

CEMENTING LOG

STAGE NO.

Date 5-7-92 District H Bend Ticket No. OS 7449
 Company Williams Oil & Gas Rig Stidley
 Lease Allen Storage Well No. 4116
 County Free State OK
 Location Allen E1S 2S 1/2E S1S Field _____

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

CASING DATA: PTA Squeeze
 Intermediate Production Liner
 Size 8 5/8 Type _____ Weight 24 Collar _____

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

Casing Depths: Top _____ Bottom _____

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. 375 Skys Yield 6242 ft³/sk Density 14.8 PPG
 WATER: Lead 5.6 gals/sk Tail 2 gals/sk Total _____ Bbls.

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

Pump Trucks Used 2540
 Bulk Equip. 54212

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0637 Lin. ft./Bbl. 15.7
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type H₂O Amt. 32.6 Bbls. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER A. Meke

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						For 12 gals of 8 5/8 rig to S37. Cemented with 375 of 60/40 pony 20% agel 30% A-7 Pumped plug to STA 1. cement did circulate thank RECEIVED STATE CORPORATION COMMISSION AUG 3 1992 CONSERVATION DIVISION Wichita, Kansas



P.O. Box 4442
Houston, Tx. 77218

SERVICE OPERATIONS CONTRACT
TERMINATES NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 297476, Houston, Tx. 77297

DATE: 5-7-92 SERVICE CONTRACT NO.: 057449

CUSTOMER ACCOUNT NO. _____ DIST. NAME: Yt Bend

CUSTOMER: Williams Oil & Gas DIST. NUMBER: 582

ADDRESS _____

CITY _____ STATE _____ ZIP _____

AUTHORIZED BY: _____ (Please Print) ORDER NO. _____

NEW WELL WELL TYPE: OLD WELL

WELL NO.: 16 LEASE NAME & FEDERAL OFFSHORE LEASE NO.: Olden Storage

COUNTY/PARISH: Price CODE _____ STATE: Ks CITY CODE _____

FIELD NAME: Olden E1 S 2 S 2 E 9 S CITY CODE _____

WELL OWNER _____ MTA CODE _____

STAGE NO. _____ JOB CODE: 100 WORKING DEPTH _____ FT.

TOTAL PREV. GALS. _____

TOTAL MEAS. DEPTH _____ FT.

SIZE HOLE: 12 1/4 DEPTH _____ FT.

SIZE & WT. CASING: 8 5/8 x 24 DEPTH: 537 FT.

SIZE & WT. DRILL PIPE OR TUBING _____ DEPTH _____ FT.

PACKER DEPTH _____ FLUID PUMPED _____

PUMPING EQUIPMENT _____ TIME (A OR P): 2:00 P DATE: 5/17/92

TRUCK CALLED _____

ARRIVED AT JOB _____

START OPERATION _____

FINISH OPERATION _____

TIME RELEASED _____

MILES FROM STATION TO WELL: 66 SALESMAN NUMBER _____

CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT

MAX. BPM _____

S/S EMPLOYEE NUMBER: 62-8498

REMARKS

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U.M.	PRICE EXTENSION
10101023016	1	Price of job	663.00	E	663.00
10101090015	33	PTM	2.47	E	81.51
104110504	225	Common	5.63	Q	1266.75
104115018	150	Permit	2.94	Q	441.00
104115049	968	A-7	.48	L	464.64
1042201145	645	gel	.15	L	96.75
10194011011	557.7	Hauling (33x16.9)	.79	Q	440.58
108800011	401.9	Handling & Dumping	1.10	Q	442.00
104311036	1	8 5/8 W.P. Cup	63.25	E	63.25
					<u>3983.68</u>

SERVICE REPRESENTATIVE _____ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____

□ CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



LOAD SHEET

JOB NUMBER		CONTRACT NUMBER		DATE		DISTRICT NAME	
CUSTOMER NAME AND ADDRESS:				DIRECT SHIPMENT FROM			
Williams Oil, Gas				DIRECT SHIPMENT FROM			
				VENDOR NAME			
Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED	
1							
2							
3							
4							
5	0504	Common	Q	225			
6	5018	Prognif	Q	150			
7	5049	A-7	L	968			
8	0145	gal	L	645			
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

RECEIVED
STATE CORPORATION COMMISSION
AUG 3 1992
CONSERVATION DIVISION
Wichita, Kansas

COPY 1 - DISTRICT COPY
COPY 2 - CUSTOMER COPY
COPY 3 - HOUSTON

LOADED BY: _____ PRINTED _____ CUSTOMER T. S. Moore SIGNATURE _____
DATE _____ SIGNATURE _____



P.O. Box 4442
Houston, Tex 77000

CEMENTING LOG

STAGE NO

Date 5-13-97 District Carroll Ticket No 1209539
 Company W. Frank Rig Shooting
 Lease W. Frank Storage Well No 116
 County Rice State _____
 Location W. Frank E Side 2 S Field _____
E 1110

CEMENT DATA
 Spacer Type: 500 gal Salt Flush
 Amt 250 Skys Yield 1.97 ft³/sk Density 12.7 PPG
35165 6.9 Gall 1/4" collar plate

CASING DATA PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 1/2 Type ASG Weight 13.5 Collar _____

LEAD Pump Time _____ hrs Type _____
 Excess _____
 Amt 200 Skys Yield 2.0 ft³/sk Density 12.2 PPG

37.56 Shoe Pt

TAIL Pump Time _____ hrs Type 35165 6.9 Gall
 Excess _____
 Amt 100 Skys Yield 1.47 ft³/sk Density 14.0 PPG

Casing Depths Top _____ Bottom _____

WATER Lead 9.7 gals/sk Tail 5.9 gals/sk Total 125.7 Bbls
100.5 50/50 29 ft 10" collar seal to 3.5
 Pump Trucks Used 25.0 Cement
 Bulk Equip 5377 Rate
54212 11.14

Drill Pipe Size _____ Weight _____ Collars _____
 Open Hole Size 17.8 T D 34.15 It P B to _____ ft

Float Equip Manufacturer _____
 Shoe Type _____ Depth _____

CAPACITY FACTORS
 Casing Bbls/Lin ft .0238 Lin ft Bbl 42.02
 Open Holes Bbls Lin ft 10602 Lin ft Bbl 16.59
 Drill Pipe Bbls/Lin ft _____ Lin ft Bbl _____
 Annulus Bbls/Lin ft 1.0309 Lin ft Bbl 32.4
 Bbls. Lin It _____ Lin ft Bbl _____

Float Type _____ Depth _____
 Centralizers Quantity _____ Plugs Top _____ Btm _____

Perforations From _____ ft to _____ ft Amt _____

Stage Collars _____
 Special Equip Rotating Head
 Disp Fluid Type 4120 Amt 50.5 Bbls Weight 3.38 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE M. L. Murphy

CEMENTER Carroll

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
<u>100</u>						<u>On locating spot mud</u>
<u>335</u>			<u>12</u>	<u>12</u>		<u>Start salt flush</u>
			<u>24</u>	<u>12</u>		<u>Start mud @ 100</u>
			<u>21.2</u>	<u>47.2</u>		<u>Start lead cement</u>
			<u>12.9</u>	<u>51.7</u>		<u>Start cement</u>
			<u>11.9</u>	<u>24.9</u>		<u>Start tail cement</u>
			<u>23.3</u>	<u>80.5</u>		<u>Cement in slot</u>
						<u>Start AUG</u>
<u>445</u>						<u>Plug landed</u>



CONTRACT NO. 069539

DATE OF JOB 05/13/93	MM DD YY	DISTRICT Cape Fear 382	DIST. NO.	AUTHORIZED BY Mike Murphy
CUSTOMER Williams Natural Gas			16	

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
109025015	1	Rotating Head	200 ⁰⁰	E	200 00
104306211	1	5 1/2 Ribbon Plug	63 ²⁵	E	63 25
10142501015	500	Mud Clean Book Resin	.51	G	255 00
					7456 33

SERVICE REPRESENTATIVE *[Signature]*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

CHECK IF CONTINUATION IS USED

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



LOAD SHEET

JOB NUMBER	CONTRACT NUMBER	DATE	DIRECT SHIPMENT FROM	DISTRICT NAME
	1969539	5-12-92	582	

CUSTOMER NAME AND ADDRESS	DIRECT SHIPMENT FROM
Williams National Gas, Inc	BJS SERVICES
	AA Ave. North Side
	Great Bend, KS

Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1						
2	0504	CLASS A	Q	343		0
3	5012	FLY ASH	R	207		0
4	0145	GEL	LB	2544		0
5	2005	CA	LB	130		0
6	5080	D-7	LB	3000		0
7	5038	A-5	LB	840		0
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21		250 SKS 6 3/4" 650 GEL 1/4" CFPS				
22		200 SKL 6 3/4" 650 GEL 1/4" CFPS				
23		100 SKS 5 1/2" 250 GEL 10% A-5				
24						
25						
26						
27						

27.09 Ton

STATE BOARD OF COMMISSIONERS
 AUG 3 1992
 CONSERVATION DIVISION
 Wichita, Kansas

COPY 1 - DISTRICT COPY COPY 2 - CUSTOMER COPY COPY 3 - HOUSTON	LOADED BY: <i>Thomas B...</i> PRINTED: _____ SIGNATURE: _____	CUSTOMER: <i>M...</i> SIGNATURE: _____
	DATE: 5-12-92	



P.O. Box 4442
Houston, Tx. 77201

REMIT TO: P.O. Box 297476, Houston, Tx. 77297

SERVICE OPERATIONS CONTRACT
TERMS NET 30 DAYS FROM DATE OF CONTRACT

DATE 5-13-92		SERVICE CONTRACT NO. 069539	
CUSTOMER ACCOUNT NO.		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE 0
CUSTOMER <i>William Natunous</i>		JOB NUMBER	
ADDRESS		WELL NO. 16	LEASE NAME & FEDERAL OFFSHORE LEASE NO. Aden Storage
CITY		COUNTY/PARISH Rice	STATE Ks
STATE		FIELD NAME	CITY CODE
ZIP		WELL OWNER	MTA CODE
AUTHORIZED BY <i>Mike Mackey</i>	ORDER NO.	PUMPING EQUIPMENT	
STAGE NO.	JOB CODE 106	WORKING DEPTH 3415	TIME (A OR P)
TOTAL PREV. GALS		DATE	
TOTAL MEAS. DEPTH FT.		TRUCK CALLED	MM DD YY
SIZE HOLE 7/8		ARRIVED AT JOB	1002A 05/13/92
SIZE & WT CASING 5 1/2 15.5		START OPERATION	3305A 05/13/92
SIZE & WT DRILL PIPE OR TUBING		FINISH OPERATION	1145A 05/13/92
PACKER DEPTH		TIME RELEASED	
FLUID PUMPED		MILES FROM STATION TO WELL 32	SALESMAN NUMBER
CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED ELEMENT			
REMARKS			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK REF NO	QUANTITY	DESCRIPTION	UNIT PRICE	U.M.	PRICE EXTENSION
101002318	1	Pump Truck Set	1153.00	E	1153.00
101029005	32	PTM	2.47	E	79.04
101405041	343	Class A	5.63	Q	1931.09
10415018	207	Fly Ash	2.94	Q	608.58
10420145	2544	Coal	.15	L	381.60
10415082	3000	D-2	19.5	L	1050.00
10415038	840	A-5	12.3	L	100.80
10427008	130	Flou Seal	7.35	L	125.50
10880001	668	Blending	1.16	cup	774.88
10940601	865.3	PARAGE Tenable	1.29	E	683.59

SERVICE REPRESENTATIVE: *[Signature]*
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*
CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)