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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

Operator: License # 9482
Name: National Petroleum Reserves, Inc.
Address: 250 N. Rock Rd. Suite 130
City/State/Zip: Wichita, KS 67206
Purchaser: Plains/Lumen
Operator Contact Person: T.C. Bredehoff
Phone: (316) 681-3515
Contractor: Name: Sterling Drilling Co.
License:
Wellsite Geologist: Ken Le Blanc

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:
Deepening Re-perf. Conv. to Enhr./SWD
Plug Back Plug Back Total Depth
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Enhr.?) Docket No.

4/25/05	5/04/05	5/28/05
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 007-228880000
County: Barber
Ap NW SE NE Sec. 25 Twp. 31 S. R. 12 East West
1660 feet from S N (circle one) Line of Section
1040 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Rucker Well #: 2
Field Name: Whelan West
Producing Formation: Miss.
Elevation: Ground: 1522 Kelly Bushing: 1531
Total Depth: 4820 Plug Back Total Depth: 4668
Amount of Surface Pipe Set and Cemented at 236' 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
(Data must be collected from the Reserve Pit) **ACT I W Hn**
4-23-2007
Chloride content 8,000 ppm Fluid volume 6960 bbls
Dewatering method used hauled and dehydrated in pit
Location of fluid disposal if hauled offsite:
Operator Name: National Petroleum Reserves, Inc.
Lease Name: Rucker License No.: 9482
Quarter SE Sec. 25 Twp. 31 S. R. 12 East West
County: Barber Docket No.: (haul off pit)

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: Susan E. Bredehoff, II
Title: Vice - President Date: 7-13-05
Subscribed and sworn to before me this 13th day of July,
2005.
Notary Public: Susan E. Bredehoff
Date Commission Expires: 5-13-09

SUSAN E. BREDEHOFT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 5-13-09

KCC Office Use ONLY
YES Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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Side Two

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Operator Name: National Petroleum Reserves, Inc. Lease Name: Rucker Well #: 2
Sec. 25 Twp. 31 S. R. 12 East West County: Barber

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INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:

DIL, CNDL, Bond

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Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Heebner	3498 -1967	
Lansing	3679 -2148	
Marmaton	4153 -2622	
Miss.	4246 -2715	
Viola	4516 -2985	
Simpson Sh.	4605 -3074	
Arbuckle	4711 -3180	

CASING RECORD New 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
Conductor	24"	20"	30#	42'	grout	10	
Surface	12 1/4"	8 5/8"	24#	236'	poz mix	225	2% gel 3% cc
Production	4 1/2	7 7/8"	10.5#	4720'	poz mix	150	2% gel 3% cc

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
2	4254 to 4275	1,500 gal. 7.5% MCA	4275
	4254 to 4275	8 tank slickwater frac (3,500 bbl. slurry)	4275

TUBING RECORD Size 2 3/8" Set At 4609' Packer At Liner Run Yes No

Date of First, Resumerd Production, SWD or Enhr. 6/21/05 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	100	80	10,000 to 1	34

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

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

Production Interval

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National Petroleum Reserves, Inc.
Rucker #2 Drill Stem Tests
Ne/4 25, 31s-12w
Barber Co., KS
ACO-1

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D.S.T. #1
Elgin Sand (3350-3368)
30-30-45-60; blow- fair off btm. 3 min.; 2nd open gas to surf. immediately
gauge 23 MCF Rec: 90' muddy wtr, FP's: 54-61, 37-79; SIP's: 775-813

D.S.T. #2
Miss Chert (4218-4261)
30-30-30-30 fair off btm 21 min., 2nd open blt to btm. 19 min. Rec: 420'
gas in pipe, 20' gassy mud w/show of oil; FP's: 53-57, 60-68; SIP's: 179
-227.

D.S.T. #3
Miss Chert (4261-4281)
30-30-30-30 1st open wk to 3" 2nd open wk to 3" Rec: 240' gas in pipe, 20'
gassy mud. FP's: 37-46, 45-51; SIP's: 113-99.

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As consideration, the Customer agrees:

a) To pay ACID SERVICES, LLC in accord with the rates and terms stated in ACID SERVICES, LLC's current price list. Invoices are payable NET 30 after date of invoice. Upon Customers' default payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection cost and attorney fees in the amount of the unpaid account.

b) To defend, indemnify, release and hold harmless ACID SERVICES, LLC, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorney's fees, and costs of defense to the extent permitted by law for:

1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury of death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material. The amount of this invoice is due and payable at ACID SERVICES, LLC, Dept. No. 1131, Tulsa, Oklahoma 74182. All terms of the Service Order with customer are incorporated herein and made a part hereof by reference.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by ACID SERVICES, LLC's negligence, strict liability, or operated, or furnished by ACID SERVICES, LLC or any defect in the data, products, supplies, materials, or equipment of ACID SERVICES, LLC whether the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of ACID SERVICES, LLC. The term "ACID SERVICES, LLC" as used in said Sections b) and c) shall mean ACID SERVICES, LLC, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ACID SERVICES, LLC is unable to guarantee the effectiveness of the products, supplies, or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ACID SERVICES, LLC. ACID SERVICES, LLC personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that ACID SERVICES, LLC shall not be liable for and Customer shall indemnify ACID SERVICES, LLC against any damages from the use of such information.

d) That ACID SERVICES, LLC warrants only title to the products, supplies, and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Acid Services LLC's liability and Customer's exclusive remedy in and cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to ACID SERVICES, LLC or, at ACID SERVICES, LLC's option, to the allowance to the Customer of credit for the cost of such items. In no event shall ACID SERVICES, LLC be liable for special, incidental, indirect, punitive or consequential damages.

e) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law. We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to service furnished under this contract.

f) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

g) That ACID SERVICES, LLC shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized manager of ACID SERVICES, LLC.

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TREATMENT REPORT



Customer ID CONFIDENTIAL		Date	
Customer NPR		5-5-05	
Lease RUCLER		Lease No.	Well # 2
Field Order # 10502	Station PLANN, KS	Casing 4 1/2	Depth 4720'
Type Job LOWESTRONG-NW	Formation TD-4820	County BARBER	State KS
Legal Description 25-31-12			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid 150 sk AA2		RATE	PRESS	ISIP
Depth 4720'	Depth	From	To	Pre-Pad 15.0 PPS	Max			5 Min.
Volume	Volume	From	To	Red 1.44 # 3/5K	Min			10 Min.
Max Press	Max Press	From	To	Frac 6.2 gal 150	Avg			15 Min.
Well Connection	Annulus Vol.	From	To	Flush	HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To		Gas Volume			Total Load

Customer Representative Chuck	Station Manager Harvey	Treater Conroy
Service Units	120 228 346 571	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0530					ON LOCATION
0730					RECEIVED JUL 14 2005 KCC WICHITA
0930					Run 4720' 4 1/2 CASING PACKER SHOES, LATCH DOWN BARRIE CENT-3-4-5-6 BARBET-4 SET 4 1/2 AT 4720' BREAK CORE.
1015	1100				DROP BALL - SET PACKER SHOES
1030	200		12	5	PUMP 12 bbl MUD FLUSH
	200		5	5	PUMP 5 bbl H2O
	100		38	5	MIX 150 SK AA2 10% SMT 5# GARDSONITE 8% FUA32 4% CPR
					STOP - WASH LONG - DROP PLUG
	0		0	6	START DISP.
	200		55	6	LEFT CEMENT
	650		70	4	SLOW RATE
1100	1500		74 1/2	4	PLUG DOWN - HOLD
1130					PLUG RT & WH - 25 SK 60/40 JOB COMPLETE THANKS - HARVEY

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

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CONFIDENTIAL FIELD ORDER 10454 ✓

INVOICE NO.	Subject to Correction		
Date: 4-25-05	Lease: RUCKEL	Well #: #2	Legal: 25-31S-12W
Customer ID	County: BARBER	State: KS	Station: PRATT
NATIONAL PETROLEUM RESERVES	Depth	Formation	Shoe Joint
	Casing: 8 5/8	Casing Depth: 224.56	TD: 240
	Customer Representative: LANNIE SAHOGA	Treater: MIKE M'GURE	Job Type: CEMENT SURFACE NEW WELL

CHARGE

AFE Number	PO Number	Materials Received by: X Jimmy S. Salyer
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D203	225 SKS	60/40 POZ COMMON	-			
C310	582 lb	CALCIUM CHLORIDE	-			
C194	53 lb	CELLFLAKE	-			
F163	1	WOODEN PLUG CEMENT 8 5/8	-			
C228	100 lb	SUGAR	-			
E100	30 MI	HEAVY VEHICLE MILEAGE 1-WAY				
E101	30 MI	CAR PICKUP VAN MILEAGE 1-WAY				
E104	291 TM	PROPANT & BULK DELIVERY PTM				
E107	225SK	CEMENT SERVICE CHARGE				
R200	1	CASING CEMENT PUMPER 0-300'				
R701	1	CEMENT HEAD RENTAL				
		DISCOUNTED PRICE + TAX'S		\$ 4008 ⁷⁸		
		THANK YOU MIKE				

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b) To defend, indemnify, release and hold harmless ACID SERVICES, LLC, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorney's fees, and costs of defense to the extent permitted by law for:

1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury of death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material. The amount of this invoice is due and payable at ACID SERVICES, LLC, Dept. No. 1131, Tulsa, Oklahoma 74182. All terms of the Service Order with customer are incorporated herein and made a part hereof by reference.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by ACID SERVICES, LLC's negligence, strict liability, or operated, or furnished by ACID SERVICES, LLC or any defect in the data, products, supplies, materials, or equipment of ACID SERVICES, LLC whether the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of ACID SERVICES, LLC. The term "ACID SERVICES, LLC" as used in said Sections b) and c) shall mean ACID SERVICES, LLC, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ACID SERVICES, LLC is unable to guarantee the effectiveness of the products, supplies, or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ACID SERVICES, LLC. ACID SERVICES, LLC personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that ACID SERVICES, LLC shall not be liable for and Customer shall indemnify ACID SERVICES, LLC against any damages from the use of such information.

d) That ACID SERVICES, LLC warrants only title to the products, supplies, and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Acid Services LLC's liability and Customer's exclusive remedy in and cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to ACID SERVICES, LLC or, at ACID SERVICES, LLC's option, to the allowance to the Customer of credit for the cost of such items. In no event shall ACID SERVICES, LLC be liable for special, incidental, indirect, punitive or consequential damages.

e) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law. We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to service furnished under this contract.

f) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

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TREATMENT REPORT

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Customer ID	CONFIDENTIAL		Date	4-25-05	
Customer	NATIONAL PETROLEUM RESERVES		Lease No.		
Lease	RUCKEL		Well #	2	

Field Order #	10454	Station	PRATT	Casing		Depth		County	BARBER	State	KS
Type Job	CEMENT SURFACE NEW WELL			Formation				Legal Description	25-31S-12W		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME			
Casing Size	8.5" 24#	Shots/Ft		Acid	225 SKS 60/40 P02		RATE	PRESS	ISIP
Depth	224.56	From	To	Pre Pad	2% BEN GLX 3%		Max		5 Min.
Volume	13.9	From	To	Pad	CAL. CHOK. .25		Min		10 Min.
Max Press		From	To	Frac	CELLFRAC		Avg		15 Min.
Well Connection	Annulus Vol.	From	To	Flush	FRESH H2O		HHP Used		Annulus Pressure
Plug Depth	219	From	To				Gas Volume		Total Load

Customer Representative	LANNIE SAKOLA	Station Manager	DAVE ATRY	Treater	MIKE M'GUIRE
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Service Units	109	226	347	571					
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1300					ON LOCATION / SAFETY MTC
1400					HOOK UP TO RIG & CIRCUMFER HOLE
1408					HOOK UP TO PUMP TRUCK
1410	100	10'	41	3.5	START 225 SKS 60/40 P02 @ 14 ²⁴
1420	100	-		-	SHUT DOWN CIRCUMFER CEMENT
1425					START CEMENT
1430	100		50	3.5	SHUT DOWN RELEASE PULV
1435					START DISPACEMENT
1442	100		8	2.5	SHUT DOWN WAIT TO SEE IF CEMENT FALLS
1452					FINISH DISP. CIRC. 25 SKS TO PIT
1455	100		13.9	2.5	SHUT DOWN / JOB COMPLETE
					JOB COMPLETE
					THANK YOU
					MIKE

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