

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 ORIGINAL

Operator: License # 9482
Name: National Petroleum Reserves, Inc.
Address: 250 N. Rock Rd. #130
City/State/Zip: Wichita, KS 67206
Purchaser: _____
Operator Contact Person: T.C. Bredehoft
Phone: (316) 681-3515
Contractor: Name: Sterling Drlg
License: 5142
Wellsite Geologist: Tom Williams

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. _____
2-6-01 2-14-01 _____
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-151-22183-0000
County: Pratt
SE-SW-SE Sec. 23 Twp. 26 S. R. 14 East West
330 feet from (S) / N (circle one) Line of Section
1650 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: BERRY Well #: 1
Field Name: Moore SW
Producing Formation: D&A

Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: _____ Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 295 ^{lb} _{KCC} 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 DNA 8/13/01 AB
(Data must be collected from the Reserve Pit)
Chloride content 7,000 ppm Fluid volume 280 bbls
Dewatering method used dehydration
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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: T.C. Bredehoft, II
Title: Vice-President Date: 7/30/01
Subscribed and sworn to before me this 30th day of July, 2001.
Susan E. Bredehoft
Notary Public: _____
Date Commission Expires: _____
**SUSAN E. BREDEHOFT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 5-13-05**

KCC Office Use ONLY
 Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
RECEIVED
AUG - 6 2001
KCC
KCC WICHITA

Operator Name: National Petroleum Reserves, Inc Lease Name: BERRY Well #: 1
 Sec. 23 Twp. 26 S. R. 14 East West County: Pratt

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input 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 <i>(Submit Copy)</i> List All E. Logs Run: <u>RAG</u>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th style="width:15%;">Top</th> <th style="width:15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3677</td> <td>-1692</td> </tr> <tr> <td>Lansing</td> <td>3869</td> <td>-1884</td> </tr> <tr> <td>B/K.C.</td> <td>4179</td> <td>-2194</td> </tr> <tr> <td>Miss Osage</td> <td>4314</td> <td>-2329</td> </tr> <tr> <td>Viola</td> <td>4402</td> <td>-2417</td> </tr> <tr> <td>Simp. Sh</td> <td>4477</td> <td>-2492</td> </tr> <tr> <td>Simp. SS</td> <td>4496</td> <td>-2511</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3677	-1692	Lansing	3869	-1884	B/K.C.	4179	-2194	Miss Osage	4314	-2329	Viola	4402	-2417	Simp. Sh	4477	-2492	Simp. SS	4496	-2511
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DST #1 4259-4353 20-20-20-20 Rec: 30' mud/ns
 F.P.s 89-94, 96-98 SIPs: 110-104 111°
 DST #2 4473-4511 30-30-30-45 B.O.B. 2 min Rec:
 2425' SW/n's FP's:187-883, 868-1156 SIPs: 1456-1466 132°

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	# Sacjs Used	Type and Percent Additives
Surface C.	12 1/4"	8 5/8"	20#	307'	60/40 poz	190	5% 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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
				Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	

ORIGINAL

Sterling Drilling Company, Rig #4

Box 1006, Pratt, Kansas 67124-1006
Office Phone (316) 672-9508, Fax 672-9509

SAMPLE LOG

Berry No. 1

LOCATION:	Se Sw Se	Section .23	T 26s	R 14w
API:	15-151-22183-0000	Pratt County, Kansas		

OWNER: National Petroleum Reserves, Inc.
CONTRACTOR: Sterling Drilling Company, Rig #4

COMMENCED: 02/06/01
COMPLETED: 02/14/01

TOTAL DEPTH:	DRILLER	4550	FEET
	LOGGER	4551	FEET

Ground Elevation: 1976
KB Elevation: 1985

LOG

0 -	31 FEET	Surface Sand
31 -	50 FEET	Clay
50 -	60 FEET	Fine Sand
60 -	93 FEET	Coarse Sand and Gravel
93 -	168 FEET	Sand
168 -	867 FEET	Red Beds and Shales
867 -	887 FEET	Anhydrite
887 -	4550 FEET	Limestone/Shales/Sandstones

CASING RECORDS

Spud at 8:30 am on 02-06-01. Drilled 12-1/4" hole to 310'. Ran 7 joints of new 20# 8-5/8" surface casing tally 295.12' set at 307' KB.
Cemented with 190 sx 60/40 Poz, 2% Gel, 3% CC, 1/4 lb. Celloflake per sack.
Plug down at 3:00 pm on 02-06-01 by Acid Services. Good returns. Ticket # 03198.

Received plugging orders from Steve Durrant on 2-13-01 at 8:45 am.
Plugged well as follows using 135 sx 60/40 Poz, 6% Gel: Began plugging at 8:30 pm on 2-14-01. Heavy mud from 4550' to 900', then 50 sx, heavy mud to 330', then 50 sx, heavy mud to 40', then 10 sx to surface. Cement did circulate. Mousehole 10 sx, rathole 15 sx.
Plugging completed at 10:45 pm on 1-14-01 by Acid Services. Ticket # 03122.

DEVIATION SURVEYS

1-3/4 degree(s) at 4353 feet

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AUG - 6 2001

KCC WICHITA

RECEIVED

AUG - 6 2001

KCC WICHITA



ORIGINAL
TREATMENT REPORT 02949

Customer ID	Date				
Customer NPR	02-06-01				
Lease BERRY	Lease No.				
	Well # 1-23				
Field Order # 03198	Station PRATT	Casing 8 5/8	Depth 307	County PRATT	State KS

Type Job **SURFACE NEW WELL** Formation _____ Legal Description **23-26S-14W**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 190sk		RATE	PRESS	ISIP
Depth 367'	Depth	From	To	Pre Pad 60/40 Poz	Max			5 Min.
Volume	Volume	From	To	Pad 206 GAL 3/16 C.C.	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative _____ Station Manager **D. AUPRY** Treater **T. SOB**

Service Units	108	35	57	32	72				
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00					Called out
12:20					on loc. w/tek
					Run 7 JT's 8 5/8 Csg 20'
2:15					Hook up to Csg.
2:30				3	Beck Crec w/ Pump Tek
			15	1	Pump 15 Bbls H ₂ O
2:35				5	START MIXING CEMENT @ 14.7 #/GAL
2:43			42.2		FINISHING MIXING CEMENT
2:45					SHUT DOWN
2:46					RELEASE PLUG 8 5/8 WOODEN
2:47				4	START DISP Crec 25sk TO PIT
2:52			19.7		PLUG DOWN GOOD Crec THRU JO3
2:55					CLOSE VALVE ON Csg.
					JO3 COMPLETE
					THANKS TO

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AUG - 6 2001

ORIGINAL



INVOICE NO.
Date 2-14-01
Customer ID

Subject to Correction

FIELD ORDER

03122

CHARGE

National Pet Reserves	Depth	Formation	Shoe Joint
	Casing 8 5/8	Casing Depth 311	TD 4550
	Customer Representative Daryl Krier	Treater Dave Scott	Job Type PTA Newwell

AFE Number	PO Number	Materials Received by X Daryl Krier
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D202	135 sks	60/40 poz Cmt				
C321	464 lbs	Cmt Gel				
F143	1 ea	Top Wood Plug				
E107	135 sks	Cmt Serv Charge				
E100	1 ea	UNITS 1 way MILES 15				
E104	162+M	TONS 1 way MILES 11				
R400	1 ea	EA. PTA PUMP CHARGE				
Discounted Price = 1932.20						
Plus Tax						

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1 AUG - 6 2001
KEC WICHITA



Customer ID			Date		
Customer <i>WPR</i>			2-14-01		
Lease <i>Berry</i>			Lease No.	Well # <i>1-23</i>	
Field Order # <i>03122</i>	Station <i>Pratt KS</i>	Casing <i>8 5/8</i>	Depth <i>311</i>	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>PTA New well</i>	Formation			Legal Description <i>23-26s-14w</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size <i>4 1/2</i>	Shots/Ft		Acid <i>135 sks 60/40 poz.</i>	RATE	PRESS	ISIP	
Depth <i>311</i>	Depth <i>900</i>	From	To	Pre Pad <i>6% Total Gel</i>	Max	<i>1500</i>	5 Min.	
Volume	Volume <i>41 Bbls</i>	From	To	Pad <i>159 #3 13.3 ppg</i>	Min		10 Min.	
Max Press	Max Press	From	To	Frac <i>37.1 Bbls SL</i>	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	Flush	HHP Used	RECEIVED		
Plug Depth	Packer Depth	From	To		Gas Volume	<i>1 AUG - 16 2001</i>		

Customer Representative <i>Daryl Krier</i>	Station Manager <i>Dave Aury</i>	Treater <i>D. KCCW/CHITA</i>			
Service Units	<i>106</i>	<i>35</i>	<i>57</i>	<i>38</i>	<i>71</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1600</i>					<i>Called Out</i>
<i>1930</i>					<i>on loc. w/ Trk's Safety mtg</i>
					<i>1st Plug 900' 50 sks</i>
<i>2105</i>	<i>200</i>	<i>11</i>	<i>4</i>		<i>H2O Spacer</i>
<i>2108</i>	<i>200</i>	<i>13.8</i>	<i>4</i>		<i>mix & Pump 50 sks @ 13.3 ppg</i>
<i>2109</i>	<i>200</i>	<i>4.7</i>	<i>4</i>		<i>Balance & Disp Cmt</i>
					<i>2nd Plug @ 330' 50 sks</i>
<i>2140</i>	<i>100</i>	<i>11</i>	<i>4</i>		<i>H2O spacer</i>
<i>2143</i>	<i>100</i>	<i>13.8</i>	<i>4</i>		<i>mix & Pump 50 sks @ 13.3 ppg</i>
<i>2145</i>	<i>100</i>	<i>2.7</i>	<i>4</i>		<i>Balance & Disp Cmt</i>
					<i>Solid Bridge @ 40' 10 sks</i>
<i>2230</i>		<i>2.7</i>	<i>2</i>		<i>mix & Pump 10 sks Cmt</i>
<i>2235</i>		<i>4.1</i>	<i>2</i>		<i>Plug R.H. w/ 5 sks Cmt</i>
<i>2240</i>		<i>2.7</i>	<i>2</i>		<i>Plug M.H. w/ 10 sks Cmt</i>
					<i>Pumped 135 sks 60-40 poz 6% Total Gel</i>
					<i>Job Complete</i>
					<i>Thank you Scotty</i>