

8/24/09

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 4058
Name: American Warrior, Inc.
Address: P. O. Box 399
City/State/Zip: Garden City, KS 67846
Purchaser: NCRA
Operator Contact Person: Kevin Wiles Sr.
Phone: (620) 275-9231
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Marc Downing

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. _____

7-5-07	7-10-07	8-1-07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 009-25,067 -00-00
County: Barton County, KS
SW SE SW Sec. 14 Twp. 20 S. R. 13 East West
330 FSL feet from S / N (circle one) Line of Section
1880 FWL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Bushnell Well #: 1-14
Field Name: WILDCAT
Producing Formation: Kansas City
Elevation: Ground: 1866' Kelly Bushing: 1874'
Total Depth: 3540' Plug Back Total Depth: 3527'
Amount of Surface Pipe Set and Cemented at 292' 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 AMINS 22009
(Data must be collected from the Reserve Pit)
Chloride content 11,000 ppm Fluid volume 320 bbls
Dewatering method used Hauled Off Site
Location of fluid disposal if hauled offsite:
Operator Name: American Warrior, Inc.
Lease Name: Welsh 3 SWD License No.: 4058
Quarter NW Sec. 30 Twp. 20 S. R. 12 East West
County: Barton Docket No.: D-28,646

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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: [Signature]
Title: Compliance Coordinator Date: 8-23-07

Subscribed and sworn to before me this 23rd day of August
20 07

Notary Public: [Signature]
Date Commission Expires: 09-12-09
ERICA KUHLMIEER
Notary Public - State of Kansas
My Appt. Expires 09-12-09

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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Operator Name: American Warrior, Inc. Lease Name: Bushnell Well #: 1-14
 Sec. 14 Twp. 20 S. R. 13 East West County: Barton County, KS

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 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 <i>(Submit Copy)</i> List All E. Logs Run: Borehole Compensated Sonic Log, Dual Induction Log, Dual Compensated Porosity Log, Microresistivity Log, Sonic Cement Bond Log	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Top Arhydrite</td> <td>697</td> <td>+1177</td> </tr> <tr> <td>Base Arhydrite</td> <td>720</td> <td>+1154</td> </tr> <tr> <td>Topeka</td> <td>2853</td> <td>-979</td> </tr> <tr> <td>Heebner</td> <td>3095</td> <td>-1221</td> </tr> <tr> <td>Toronto</td> <td>3117</td> <td>-1243</td> </tr> <tr> <td>LKC</td> <td>3224</td> <td>-1350</td> </tr> <tr> <td>BKC</td> <td>3447</td> <td>-1573</td> </tr> <tr> <td>Arbuckle</td> <td>3482</td> <td>-1608</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Top Arhydrite	697	+1177	Base Arhydrite	720	+1154	Topeka	2853	-979	Heebner	3095	-1221	Toronto	3117	-1243	LKC	3224	-1350	BKC	3447	-1573	Arbuckle	3482	-1608
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																													
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BKC	3447	-1573																													
Arbuckle	3482	-1608																													

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"	23#	292'	Common	300 sx	3%cc 2%Get
Production	7-7/8"	5-1/2"	14#	3549'	EA-2	165sx	1/4# Flocele

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" 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	3353' to 3358'	MCA ACID 2500 Gals GL 20%	Same

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8"	3380'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. SI			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	SI	SI	SI		

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

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CHARGE TO: AMERICAN WARRIOR
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET
 No 11557

PAGE 1 OF 2

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1. <u>HAYS</u>	WELL/PROJECT NO. <u>1-14</u>	LEASE <u>BUSHWELL</u>	COUNTY/PARISH <u>BARTON</u>	STATE <u>KS</u>	CITY	DATE <u>07-10-07</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>DAVE DRG # 8</u>	SHIPPED VIA <u>C.T.</u>	DELIVERED TO <u>45 1/2 N.W. 1/4 CR. 27</u>	ORDER NO. <u>66-2018</u>	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>5/2 LONGSTRINK</u>	WELL PERMIT NO. <u>15-009-25067</u>	WELL LOCATION <u>S14,720, RB</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #105	70		mi		4.00	280	00
578		1			PUMP SERVICE	1		EA		12.50	12.50	00
221		1			LIQUID WCL	2		GAL		26.00	52	00
281		1			MUD FLUSH	500		GAL		.75	375	00
290		1			D AIR	2		GAL		32.00	64	00
402		1			CENTRALISERS	8		EA	5 1/2 in	95.00	760	00
403		1			CMT BASKET	1		EA	5 1/2 in	290.00	290	00
406		1			LATCH DOWN PLUG & BASKET	1		EA	5 1/2 in	235.00	235	00
407		1			FREE FROTH SH & 1/2 HRS FILL	1		EA	5 1/2 in	310.00	310	00

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LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X David Steyer
 DATE SIGNED 07-10-07 TIME SIGNED 1830 A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	3616 00
WE UNDERSTOOD AND MET YOUR NEEDS?				Sub TOTAL	3527 77
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL	7143 77
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Barton TAX 6.55%	316 32
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	7460 09
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR DAVE ASH APPROVAL _____

Thank You!

JOB LOG.

SWIFT Services, Inc.

DATE 07 10 07 PAGE NO. 1

CUSTOMER AWI WELL NO. 1-14 LEASE BUSHNELL JOB TYPE LONG STRING TICKET NO. 11557

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							CONLOCATION DISCUSS JOB, SETUP 165 SHS EA-2 CMT 1/2" FLOWLINE 5/2-14" 1/2" FLOWLINE RTD 3550, SET PIPE 2519, SJ 19.85, INSERT 3521 CMT 2, 5, 9, 12, 15, 19, 21, 24 BAKER 4
	1920							START CSU & FEEDBACK
	2045							TAG BOTTOM
	2045							DROP BALL HOOK UP
	2050							BREAK CIR - PUMP - DISCO - 1HR
	2145		3+2					PLUG RA + MH
	2150	4.0	0			300		START MUD FLUSH
			12					" HCL KCC
	2158		32					END FLUSHES AUG 23 2007
	2158	5.0	0			300		START EA2 CMT CONFIDENTIAL
			36					END CMT
								WASH PL DROP LATCH DOWN PLUG
	2210	5.5	0			150		START DISC w/ H2O
		5.5	50			150		CMT ON BOTTOM
		6.0	60			200		
			65			350		
			70			400		
			75			500		
			80			675		
	2230	4.0	86.1			1500		LAND PLUG
	2235							RECEIVE PSI - DRY
								WASH UP
								RACK UP
								TICKETS
	2215							JOB COMPLETE
								THANK YOU! DAN JOSH B., ROR

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CHARGE TO: American Warrior Inc
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET

Nº 12324

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Hays, Ks</u>	WELL/PROJECT NO. <u>#1-14</u>	LEASE <u>Bushnell</u>	COUNTY/PARISH <u>Barton</u>	STATE <u>Ks</u>	CITY	DATE <u>7-27-07</u>	OWNER <u>Sqmc</u>
2. <u>Ness City, Ks</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Express Well Service</u>	RIG NAME/NO.	SHIPPED VIA <u>C.T</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement squeeze perfs</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
575		1			MILEAGE #103	60	mi		4 ⁰⁰	240 ⁰⁰
578		1			Pump Charge (Deep Squeeze)	1	ea		1250 ⁰⁰	1250 ⁰⁰
300		1			Reg acid	100	gal	15 ⁰⁰ / ₁₀₀	1 ²⁵	125 ⁰⁰
235		1			INH-1	1/2	gal		42 ⁰⁰	21 ⁰⁰
325		2			Standard Cement Minimum	50	sk		12 ⁰⁰	600 ⁰⁰
581		2			Cement Service Charge	50	sk		1 ¹⁰	55 ⁰⁰
583		2			Drayage	141	TM		1 ⁰⁰	141 ⁰⁰

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LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]
 DATE SIGNED 7-27-07 TIME SIGNED 1415 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2432 ⁰⁰
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
				Barton TAX 6.55%	39 ³⁰
				TOTAL	2471 ³⁰

JOB LOG

SWIFT Services, Inc.

DATE 7-27-07 PAGE NO. 1

CUSTOMER American Warrior Inc WELL NO. # 1-14 LEASE Bushnell JOB TYPE Squeeze Perfs TICKET NO. 12324

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							on loc setup Trks
								2 3/8" X 5 1/2"
								Retainer @ 3380
								Perfs @ 3387'-91' Below retainer
								Perf @ 3353'-58' Above Retainer
								string into retainer
	1140	2	0			0		load the
			4.5					Hole loaded
								stage to 300 Psi bleedoff to 0 Psi in 15 seconds
								Sting out
	1150	2.5	0			0		Spot acid
			3			0		start flush
			10					Sting in
	1157		12					stage to Break down
	1224	.75	13.5			300		inj. rate
	1227	.5	15.5			300		acid flushed
	1230	.5	18/0			300		start Cement
	1240	.5	4.75			300		End Cement
								Wash P&L
	1245	.5	0			300		Start Displacement
	1255	.5	5			600		
	1302	.5	8.25			700		Cement @ perfs
	1306		10.25			1100		Shut down 2 bbl in formation
						600/1100		Stage
	1315		10.75			1100		Done 10 sks in formation
	1320	3	0			0		load ann
	1325	.5	14			100		Hole loaded
	1326	2.5	0			400		Sting out + reverse out
	1336		21					Hole clean
								wait on well to dis
								Wash up Trk
								TOOH

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CONSERVATION DIVISION
WICHITA, KS

Thank you
Nick, Josh F. & Rob

ALLIED CEMENTING CO., INC.

30470

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend

DATE <u>7.5.07</u>	SEC. <u>14</u>	TWP. <u>20</u>	RANGE <u>13</u>	CALLED OUT <u>6:30 PM</u>	ON LOCATION <u>7:00 PM</u>	JOB START <u>8:00 PM</u>	JOB FINISH <u>8:30 PM</u>
LEASE <u>Bushnell</u>	WELL # <u>1.14</u>	LOCATION <u>Great Bend 4 south</u>			COUNTY <u>Barton</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)		<u>1/4 east</u>					

CONTRACTOR Duke #8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 292'
 CASING SIZE 8 5/8 23# DEPTH 292'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 17.6 BBLs

OWNER American Warrior

CEMENT
 AMOUNT ORDERED 300 yd Common
3% cc 2% Gel

EQUIPMENT
H.B.
 PUMP TRUCK CEMENTER _____
 #417 HELPER D. Drifling
 BULK TRUCK _____
 #344 DRIVER Jim Dickson
 BULK TRUCK _____
 #NCV 429 → DRIVER David Juergensen

COMMON	<u>300 yd</u>	@	<u>11.10</u>	<u>3330.00</u>
POZMIX		@		
GEL	<u>6 yd</u>	@	<u>16.65</u>	<u>99.90</u>
CHLORIDE	<u>9 yd</u>	@	<u>46.60</u>	<u>419.40</u>
ASC		@		

HANDLING	<u>315 yd</u>	@	<u>190</u>	<u>598.50</u>
MILEAGE	<u>315 yd .09</u>	@	<u>6</u>	<u>230.00</u>
				TOTAL <u>4697.60</u>

REMARKS:

Ran 8 5/8 casing to Bottom
Circulate w rig mud. Hook up to
pump truck & mixed 300 yd common
3% cc 2% gel. Shut down change
valves over on manifold & released 8 5/8
TWP. Displace with 17.6 BBLs fresh
H²O Cement did circulate. Shut in

SERVICE

DEPTH OF JOB	<u>292'</u>			
PUMP TRUCK CHARGE				<u>815.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>6</u>	@	<u>6.00</u>	<u>36.00</u>
MANIFOLD		@		
<u>Head rental</u>		@	<u>100.00</u>	<u>100.00</u>

CHARGE TO: American Warrior Inc.
 STREET P.O. Box 399
 CITY Garden City STATE Kansas ZIP 67846

TOTAL 951.00

PLUG & FLOAT EQUIPMENT

<u>1.8 5/8 TWP</u>	@	<u>60.00</u>	<u>60.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>60.00</u>			

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE [Signature]

[Signature]
 PRINTED NAME

Thank you!

Geological Report

American Warrior Inc.
Bushnell #1-14
330' FSL & 1880' FWL
Sec. 14 T20S R13W
Barton County, Kansas

Marc Downing
Consulting Petroleum Geologist

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WICHITA, KS

General Data

Well Data: American Warrior Inc.
Bushnell #1-14
S/2 SE SW
330' FSL & 1880' FWL
Sec. 14 T. 120S R. 13 W.
Barton County, Kansas
API # 15-009-25067-0000

Drilling Contractor: Duke Drilling, Rig #8

Spud Date: 7-5-07

Completion Date: 7-10-07

Elevation: 1866' Ground Level
1874' Kelly Bushing

Directions: Great Bend, south 4 mi, east 1 ½ mi, north into.

Casing: 292' 8 5/8" surface casing
3549' 5 ½" production pipe

Samples: 10' wet and dry, 3000' to RTD

Drilling Time: 2700' to RTD

Electric Logs: Log-Tech – J. Wellbrock
Density Neutron, Dual Induction, Micro,
Sonic

Drillstem Tests: One, Trilobite Testing Inc. "Travy Cushenbery"

Problems: Board calculation error of ~10'

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WELL LOGS

Formation Tops

American Warrior, Inc.

Bushnell #1-14

Sec. 14 T20S R13W

Formation	330' FSL & 1880' FWL
Anhydrite	697' (+1177)
Base	720' (+1154)
Topeka	2853' (-979)
Heebner	3095' (-1221)
Toronto	3117' (-1243)
Douglas Sh.	3128' (-1254)
Brown Lm.	3211' (-1337)
Lansing	3224' (-1350)
BKC	3447' (-1573)
Rw Arbuckle	3476' (-1608)
Arbuckle	3482' (-1608)
RTD	3540'
LTD	3550'

Sample Zone Descriptions

LKC A-zone 3224 (-1350):

LS: white, fine-very fine crystalline. Slightly dolomitic. Good inter-crystalline porosity w/ fair brown stain. No show free oil. Slight odor. 28 unit gas kick.

LKC B-zone 3248 (-1374):

LS: White, fine crystalline. Good vugular and some pin-point porosity. Good brown staining and some gassy show free oil. Slight- fair odor. 76 unit gas kick.

LKC D-zone 3290 (-1416):

LS: white, fine crystalline, dolomitic in part. Good vugular and inter-crystalline porosity. Good stain w/ scattered gassy show free oil. Fair green fluorescence, fair odor. 25 unite gas kick.

LKC E-zone 3290 (-1416):

LS: tan, fossiliferous and oolitic. Very good inter-fossilin and oolitic porosity. Very good stain in porosity. Slight show free oil. Fair odor.

LKC G-zone 3300 (-1426):

LS: white-tan, fossiliferous, slightly dolomitic. Very good inter-fossilin and vugular porosity, turning oolitic w/ good oolitic porosity. Very good stain w/ slight-fair show free oil. Fair odor.

LKC H-zone 3352 (-1478):

LS: white-tan, oolitic. Very good oolitic porosity. Very good stain and saturation w/ fair show free oil. Fair odor and scattered good green fluorescence.

LKC I-zone 3374 (-1500):

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LS: white, mostly oolitic w/ few oolitic rocks. Slight vugular porosity in part. Fair stain w/ slight show free oil and dead stain in fine crystalline rocks. slight odor.

LKC J-zone 3384 (-1510):

LS: white, oolitic. Good oolitic porosity w/ good stain and saturation and fair-good gassy show free oil. Scattered slightly dull fluorescence. Fair odor.

Re-worked Arbuckle 3476 (-1602):

DOLO: tan-white. Few rhombs, mostly fine sucrossic crystalline. Scattered tight rocks turning good inter-crystalline porosity. Good stain and saturation w/ good spotted show free oil. Strong odor. Much white chert.

Arbuckle 3482 (-1608):

DOLO: tan-brown. Fine sucrossic crystalline w/ medium rhombohedral crystals. Good inter-crystalline porosity w/ good show free oil when broken. Turning tight w/ less porosity, still good stain. Strong odor w/ tan and orange chert, some oolitic.

Arbuckle 2nd break 3499 (-1625):

DOLO: tan-brown. Fine-medium rhombohedral crystalline. Good inter-crystalline porosity w/ good stain and saturation and good spotted show free oil. Strong odor.

Drill Stem Tests

Trilobite Testing Inc.
Travy Cushenbery

DST #1 LKC - A-D zone
Interval: 3204-3267
Times: 30-45-30-60
I.F. - BOB 45 Sec. GTS 12 min. IFP: 107-208#
 15 min: 6.9 MCFGPD, 25 min: TSTM
I.S.I. - BOB 1 min ISI: 1022#
F.F. - BOB immediately. FFP: 231-352#
 15 min: 6.9 MCFGPD, 20 min: TSTM
F.S.I. - BOB 1 ½ min. FSI: 970#
HP: 1539-1434#
BHT: 105° F

Recovery:

570' GO (80%O)
285' GO (60%O)
488' WCMGO (40%O, 20%G, 10%W)

Gravity = 39 API

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Structural Comparison

	American Warrior, Inc. Bushnell #1-14 330' FSL & 1880' FWL Barton Co., KS 15-009-25067-0000	Palomino Petroleum Lonnon B #1 470' FNL & 2030' FEL Barton Co., KS 15-009-24985-0000
Formation		
Anhydrite	697' (+1177)	(+1181) +4
Base	720' (+1154)	(+1157) +3
Topeka	2853' (-979)	NA
Heebner	3095' (-1221)	(-1216) -5
Toronto	3117' (-1243)	(-1233) -10
Douglas Sh.	3128' (-1254)	Na
Brown Lm.	3211' (-1337)	(-1332) -5
LKC	3224' (-1350)	(-1346) -4
BKC	3447' (-1573)	(-1562) -11
Rw Arbuckle	3476' (-1608)	NA
Arbuckle	3482' (-1608)	(-1626) +18

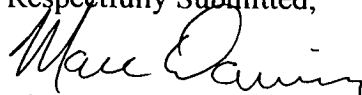
Summary

Due to structural position, DST recovery, and log interpretation, it was decided to run 5 1/2" production pipe for further production. Sample tops are slightly high due to ~10 ft. error on board calculation.

Recommended Perforations

Arbuckle 2nd break: 3499-3504 (first)
Arbuckle: 3481-84
LKC J: 3387-91
H: 3353-58
G: 3309-13
E: 3292-95
D: 3268-70
B: 3255-57
A: 3229-32

Respectfully Submitted,


Marc Downing

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