

JAMES C. MUSGROVE

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American Warrior Inc.
Eberhardt #3-24
SW-SE-NW-NW (1254' FNL & 985' FWL)
Section 24-19s-11w
Barton County, KS
Page 1

5 1/2" Production Casing Set

Contractor: Duke Drilling Company (Rig #8)
Commenced: November 9, 2013
Completed: November 14, 2013
Elevation: 1782' K.B; 1780' D.F; 1774' G.L.
Casing program: Surface; 8 5/8" @ 310'
Production 5 1/2" @ 3449'
Sample: Samples saved and examined 2800' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There was one (1) Drill Stem Test ran by Trilobite Testing Co.
Electric Log: By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity and Microresistivity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	507	+1275
Base Anhydrite	531	+1251
Heebner	2895	-1113
Toronto	2911	-1129
Douglas	2927	-1145
Brown Lime	3014	-1232
Lansing	3034	-1252
Base Kansas City	3293	-1511
Arbuckle	3324	-1572
Rotary Total Depth	3450	-1668
Log Total Depth	3452	-1670

(All tops and zones corrected to Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2844-2855' Limestone; white, gray, finely crystalline, sub oomoldic, chalky, brown and black stain, trace of free oil and no odor in fresh samples.

TORONTO SECTION

2916-2926' Limestone; white and gray, finely crystalline, fossiliferous, poorly developed porosity, trace black stain, no show of free oil and no odor.

LANSING SECTION

- 3038-3045' Limestone; white, gray, fossiliferous, chalky, poor visible porosity, trace poor stain, no free oil and no odor in fresh samples.
- 3054-3064' Limestone; white and gray, oolitic, oomoldic, fair to good oomoldic porosity, brown and black stain (dead), trace of free oil (dead) and fair odor.
- 3081-3088' Limestone; gray, white, fossiliferous, oolitic, trace brown and gray stain.
- 3105-3112' Limestone; white, gray, oolitic, few sub oomoldic, chalky, trace brown and black stain, weak show of free oil and no odor.
- 3121-3142' Limestone; tan, gray, oomoldic, fair oomoldic porosity, trace light brown stain, no show of free oil and no odor in fresh samples.
- 3176-3180' Limestone; gray, oomoldic, chalky, poor stain, weak show of free oil and questionable odor in fresh samples.
- 3191-3200' Limestone; gray, tan oolitic, few sub oomoldic, chalky, trace black and brown stain, show of free oil and faint odor in fresh samples.
- 3210-3220' Limestone; gray, tan, oomoldic, fair oomoldic porosity, poor stain, no free oil and no odor.
- 3240-3250' Limestone; gray, finely crystalline, few fossiliferous, dense.
- 3277-3280' Limestone; gray, sub oomoldic, chalky, brown spotty stain, trace of free oil and no odor.

ARBUCKLE SECTION

3324-3332' Dolomite; cream, tan, fine and medium crystalline, fair intercrystalline porosity, golden brown stain, show of free oil and good odor in fresh samples.

Drill Stem Test #1 3288-3332'

Times: 30-45-30-45

Blow: Strong

Recovery: 600' gas in pipe
190' slightly oil cut mud
(5% oil, 95% mud)
220' clean gassy oil

Pressures: ISIP 863 psi
FSIP 853 psi

IFP 39-111 psi
FFP 120-174 psi
HSH 1683-1625 psi

3332-3350' Dolomite; tan, fine and medium crystalline, fair intercrystalline porosity, brown stain, show of free oil and faint/fair odor in fresh samples.

3361-3380' Dolomite; cream, white, fine and medium crystalline, sucrosic in part, good stain and saturation, show of free oil and fair odor in fresh samples.

3384-3406' Dolomite; as above, fair to good intercrystalline and vuggy type porosity, few sandy, no shows.

3406-3420' Dolomite; as above, plus white chert.

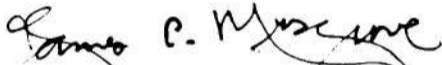
3420-3450' Dolomite; white, cream, scattered vuggy porosity, no shows.

Rotary Total Depth 3450
Log Total Depth 3452

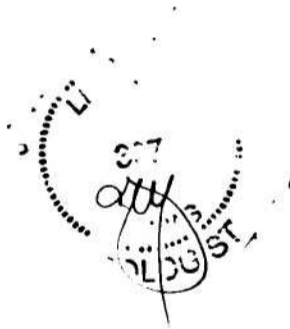
Recommendations:

5 1/2" production casing was set and cemented on the Eberhardt #3-24.

Respectfully submitted;



James C. Musgrove,
Petroleum Geologist



ALLIED OIL & GAS SERVICES, LLC 061866

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend

DATE <u>11-10-13</u>	SEC <u>24</u>	TWR <u>19</u>	RANGE <u>11N</u>	CALLED OUT <u>8 PM</u>	ON LOCATION <u>11 PM</u>	JOB START <u>12:30 AM</u>	JOB FINISH <u>1 AM</u>
LEASE <u>OSERNROT</u>	WELL # <u>3-24</u>	LOCATION <u>Ellin Wood E To ISO RD</u>			COUNTY <u>BARTON</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>2 1/2 N E INTO</u>				

CONTRACTOR Duke 8
 TYPE OF JOB SURFACE
 HOLE SIZE 12 1/4 T.D. 310
 CASING SIZE 8 1/2 24# DEPTH 310
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15 FT
 PERFS. _____
 DISPLACEMENT H2O 18.79
 EQUIPMENT _____
 PUMP TRUCK CEMENTER Charles Kinyon
 # 597 HELPER Andy Fimple
 BULK TRUCK _____
 # 599 DRIVER Kevin Weigloose
 BULK TRUCK _____
 # _____ DRIVER _____

OWNER AMERICAN WARRIOR
 CEMENT AMOUNT ORDERED 200 SKS CLASS A
3 1/2 CC 2 1/2 gel
 COMMON 200 @ 17.90 3,580.00
 POZMX _____ @ _____ _____
 GEL 4 @ 23.40 93.60
 CHLORIDE 564 @ 2.80 1,579.20
 ASC _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 HANDLING 216.66 @ 8.48 1,837.80
 MILEAGE 9.84 X 15 X 2.60 255.24
 TOTAL 5,047.30

REMARKS:
Ran 310' csg Break circulation
W/ Rig Mud Hook to Head mix
200 SKS CLASS A 3 1/2 CC 2 1/2 gel
got shot down Release Plug
Displace 18.79 Bbl of H2O
cement did circulate
shot in

SERVICE
 DEPTH OF JOB 310
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE _____ @ _____ _____
 MILEAGE Hum 15 @ 7.70 115.50
 MANIFOLD _____ @ _____ _____
Hum 15 @ 4.40 66.00
 _____ @ _____ _____
 TOTAL 1,693.75

CHARGE TO: AMERICAN WARRIOR
 STREET _____
 CITY _____ STATE _____ ZIP _____

THANK YOU!
 To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.
 PRINTED NAME X Steve H Stephens
 SIGNATURE X Steve H Stephens

PLUG & FLOAT EQUIPMENT
RUBBER Plug @ 131.04 131.04
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 TOTAL 131.04

SALES TAX (If Any) _____
 TOTAL CHARGES 6,872.29
1,374.75
 DISCOUNT _____ IF PAID IN 30 DAYS
5,497.54



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

TICKET 25790

SERVICE LOCATIONS 1. NESS CITY, KS.	WELL/PROJECT NO.	LEASE EBERHARDT 3-24	COUNTY/PARISH BARTON	STATE KS.	CITY CHASE, KS.	DATE 15 NOV 13	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR DUKE DRILLING RIG # 8	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE S ¹ / ₂ LONG STRING	WELL PERMIT NO.	WELL LOCATION 8W 2 ³ / ₄ N E N INTO		
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					MILEAGE ^B 115	80	MIL	6	¹⁰⁰	480 ¹⁰⁰
578					PUMP CHARGE	1	JOB	1500	¹⁰⁰	1500 ¹⁰⁰
402					CENTRALIZERS	8	EA.	70	¹⁰⁰	560 ¹⁰⁰
403					CEMENT BASKET	1	EA.	300	¹⁰⁰	300 ¹⁰⁰
406					LATCH DOWN PLUG & BAFFLE	1	EA.	275	¹⁰⁰	275 ¹⁰⁰
407					INSERT FLOAT SHOE AUTO FILL	1	EA.	375	¹⁰⁰	375 ¹⁰⁰
419					ROTATING HEAD RENTAL	1	JOB	200	¹⁰⁰	200 ¹⁰⁰
281					MUD FLUSH	500	992	1	²⁵	625 ¹⁰⁰
221					LIQUID KCL	2	992	25	¹⁰⁰	50 ¹⁰⁰

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 15 NOV 13 TIME SIGNED 1215 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 1 4365 ¹⁰⁰
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2 5289 ¹⁰⁰
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal 9654 ¹⁰⁰
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Barton TAX 7.15% 471 ²⁹
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TOTAL 10,125 ⁷⁹
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

JOB LOG

SWIFT Services, Inc.

DATE 15 NOV 13 PAGE NO.

CUSTOMER AMERICAN WARRIOR WELL NO. LEASE EBERHARDT 3-24 JOB TYPE 5 1/2 LONG STRING TICKET NO. 25790

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							ON LOCATION
								START PIPE 5 1/2 - 14 #
								RTD @ 3450 SET @
								SS. 19.63
								CENTRALIZERS 1 2 3 4 6 8 10 12
								BASKET #5
	0952				✓			DROP BALL - CIRCULATE
		6	12		✓		300	Pump 500 gal MUD FLUSH
	1050	6	20		✓		300	Pump 20 BBL KCL FLUSH
	1100		7.5					PLUG RH - 30sx - MH - 20sx
	1100	4	30		✓			MIX 125sx FA-2
	1119							WASH OUT Pump & LINES
	1122	6			✓			START DISPLACING PLUG
	1131	0	84		✓		1500	PLUG DOWN LATCH PLUG IN
	1133				✓			RELEASE PSI - DRY
	1135							WASH TRUCK
	1215							JOB COMPLETE
								THANKS #115
								JASON DAVE JOHN



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 25790

CUSTOMER AMERICAN WARRIOR WEL EBERHARDT 3-24 DATE 15 Nov 13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
276						FLOCELE	50	lbs			2 ⁵⁰	125 ⁰⁰
283						SALT	900	lbs			2 ⁰	180 ⁰⁰
284						CALSEAL	8	sq			35 ⁰⁰	280 ⁰⁰
292						HALAD 322	125	lbs			8 ⁰⁰	1000 ⁰⁰
290						D-AIR	2	gal			42 ⁰⁰	84 ⁰⁰
325						STANDARD CEMENT EA-2	175	sq			14 ⁵⁰	2537 ⁵⁰
581						SERVICE CHARGE						
583						MILEAGE CHARGE						
						TOTAL WEIGHT	78325					
						LOADED MILES	80					
						CUBIC FEET	175	sq			2 ⁰⁰	350 ⁰⁰
						TON MILES	733.00				1 ⁰⁰	733 ⁰⁰
CONTINUATION TOTAL											5289 ⁵⁰	