

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

8/6/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5088
Name: John Jay Darrah, Jr.
Address 1: 225 N. Market #300
Address 2: _____
City: Wichita State: KS Zip: 67202
Contact Person: Will Darrah
Phone: (316) 219-3390
CONTRACTOR: License # 4958
Name: Mallard, J.V. Inc.
Wellsite Geologist: Sean Deenan
Purchaser: NCRA

KCC
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Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., 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 Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
06/01/2010 06/06/2010 07/07/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-25,424-00-00
Spot Description: _____
NE NE NE Sec. 18 Twp. 16 S. R. 13 East West
330 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: BARTON
Lease Name: BITTER C Well #: 9
Field Name: TRAPP
Producing Formation: ARBUCKLE DOL
Elevation: Ground: 1934 Kelly Bushing: 1939
Total Depth: 3379 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 3370' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 900'
feet depth to: SURFACE w/ 95 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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.

AFFIDAVIT

I am the affiant and I hereby certify that 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: Will Darrah
Title: Manager Date: 7/26/2010

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 8/6/10 - 8/6/11
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: WJ Date: 8/13/10

Operator Name: John Jay Darrah, Jr. Lease Name: BITTER C Well #: 9 KCC
 Sec. 18 Twp. 16 S. R. 13 East West County: BARTON **AUG 06 2010**

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving intervals 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	898'	1039'
Electric Log Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	2828'	-888'
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Hebner	3060'	-1123'
List All E. Logs Run:		Lansing KC	3150'	-1213'
		Base KC	3330'	-1393'
		Arbuckle	3362'	-1425'
		Arbuckle Dolomite	3368'	-1431'

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	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	409'	G	250	2% gel 3%cc
Production	7 7/8"	5 1/2"	14#	3070'	EA-2	185	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	900' - surface	Common	95	2% gel 3% cc

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
	Open Hole		
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AUG 06 2010			
KCC WICHITA			

TUBING RECORD:	Size: <u>2 7/8"</u>	Set At: <u>3350'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>7-15-10</u>	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 Bbls. <u>24 bbls</u>	Gas Mcf	Water Bbls. <u>24 bbls</u>	Gas-Oil Ratio <u>40% oil</u>
				Gravity <u>38</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
6/2/2010	17642

BILL TO
John Jay Darrah, Jr. 225 N. Market, #300 Wichita, KS 67202

- Acidizing
 - Cement
 - Tool Rental
- KCC**
AUG 06 2010
CONFIDENTIAL

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#9	Bitter C	Barton		Oil	Development	Cement Surface	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.) - 416 Feet				1	Job	750.00	750.00
290	D-Air				3	Gallon(s)	35.00	105.00T
410-8	8 5/8" Top Plug				1	Each	100.00	100.00T
325	Standard Cement				250	Sacks	12.00	3,000.00T
279	Bentonite Gel				5	Sack(s)	25.00	125.00T
278	Calcium Chloride				7	Sack(s)	35.00	245.00T
581D	Service Charge Cement				250	Sacks	1.50	375.00
583D	Drayage				614	Ton Miles	1.00	614.00
	Subtotal							5,564.00
	Sales Tax Barton County						6.30%	225.23
<p>6-18-10</p> <p>82300 800</p> <p>RECEIVED</p> <p>AUG 06 2010</p> <p>KCC WICHITA</p> <p>VSD</p>								
Thank You For Your Business!							Total	\$5,789.23



CHARGE TO:
John J. Darrah
ADDRESS
CITY, STATE, ZIP CODE

TICKET
17642

PAGE 1 OF 1

RECEIVED
AUG 06 2010
KCC WICHITA

SERVICE LOCATIONS
1. Hays, Ks
2. Ness City, Ks
3.
4.
REFERRAL LOCATION

WELL/PROJECT NO. #9
LEASE Bitter C
COUNTY/PARISH Barton
STATE Ks
CITY
DATE 6-2-10
OWNER

TICKET TYPE SERVICE
CONTRACTOR
RIG NAME/NO.
SHIPPED VIA CT
DELIVERED TO NW/Susank, Ks
ORDER NO.

WELL TYPE Oil
WELL CATEGORY Wildcat
JOB PURPOSE Cement Surface
WELL PERMIT NO.
WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			UM			
575		1			MILEAGE # 113	50	MI		500	25000
576 S		1			Pump Charge - Shallow Surface	1	ea	416	75000	75000
290		1			D-Air	3	gal		35000	105000
410		1			Top Plug	1	ea	8 5/8 IN	100000	100000
325		2			Standard Cement	250	SKS	23500	1200	300000
279		2			Bentonite Gel	500	lbs	5	25000	125000
278		2			Calcium Chloride	560	lbs	7	35000	245000
581		2			Service Charge - Cement	250	SKS	24500	150	375000
583		2			Drayage	614	TM		100	61400

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 *Frank Syran*
DATE SIGNED 8-2-10

TIME SIGNED

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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				556400
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Barton TAX 0.3% 225 23
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 5789 23
<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

APPROVAL

Don Seaman

Thank You!



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
6/6/2010	17645

BILL TO
John Jay Darrah, Jr. 225 N. Market, #300 Wichita, KS 67202

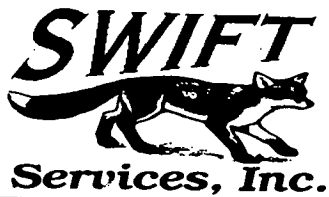
- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator	
Net 30	#9	Bitter C	Barton	Mallard Drilling	Oil	Development	Cement Two-Sta...	Don	
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT	
575D	Mileage - 1 Way				50	Miles	5.00	250.00	
579D	Pump Charge - Two-Stage - 3370 Feet				1	Job	1,750.00	1,750.00	
580	Additional Hours (If Circulate More Than 1 Hour)				2	Hours	200.00	400.00	
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T	
281	Mud Flush				500	Gallon(s)	1.00	500.00T	
290	D-Air				3	Gallon(s)	35.00	105.00T	
402-5	5 1/2" Centralizer				4	Each	55.00	220.00T	
403-5	5 1/2" Cement Basket				2	Each	200.00	400.00T	
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	275.00	275.00T	
408-5	5 1/2" D.V. Tool & Plug Set				1	Each	2,600.00	2,600.00T	
417-5	5 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00T	
325	Standard Cement				100	Sacks	12.00	1,200.00T	
276	Flocele				25	Lb(s)	1.50	37.50T	
283	Salt				500	Lb(s)	0.15	75.00T	
284	Calseal				5	Sack(s)	30.00	150.00T	
285	CFR-1				47	Lb(s)	4.00	188.00T	
330	Swift Multi-Density Standard (MIDCON II)				140	Sacks	15.00	2,100.00T	
276	Flocele				35	Lb(s)	1.50	52.50T	
581D	Service Charge Cement				240	Sacks	1.50	360.00	
583D	Drayage				609.35	Ton Miles	1.00	609.35	
Subtotal									11,572.35
Sales Tax Barton County								6.30%	516.79
<p style="text-align: center;">RECEIVED AUG 06 2010 KCC WICHITA</p>									
<p style="text-align: right;">KCC AUG 06 2010 CONFIDENTIAL</p>									
Thank You For Your Business!						Total	\$12,089.14		

6-2110
15100
120
1548

6-1810
82300
800

1504
545



CHARGE TO: John J. Darrah
 ADDRESS:
 CITY, STATE, ZIP CODE:

KCC
AUG 06 2010
CONFIDENTIAL

RECEIVED
AUG 06 2010
KCC WICHITA

TICKET
17645

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays, Ks</u>	WELL/PROJECT NO. <u>#9</u>	LEASE <u>Bitter C</u>	COUNTY/PARISH <u>Barton</u>	STATE <u>Ks</u>	CITY	DATE <u>6-6-10</u>	OWNER
2. <u>Ness City, Ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE SALES	CONTRACTOR <u>Malavel Dmg Co</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>NW/Susank, Ks.</u>	ORDER NO.	
3.	WELL TYPE <u>Dil</u>	WELL CATEGORY <u>infield</u>	JOB PURPOSE <u>Cement 2stage Longstring</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			UM			
575		1			MILEAGE #113	50	Mi	5.00		250.00
579		1			Pump Charge - Cmt 2-Stage	1	ea	3320	ft.	1750.00
580		1			Additional Hours Circulate	2	HR	200		400.00
221		1			Liquid KCL	4	gal	25		100.00
281		1			Macflush	500	gal	1.00		500.00
290		1			D-Air	3	gal	35		105.00
402		1			Centralizers	4	ea	5.50	IN	22.00
403		1			Cement Baskets	2	ea	200	IN	400.00
407		1			Insert Float Shoe w/ Auto-fill	1	ea	275	IN	275.00
408		1			D.V. Tool	1	ea	2600	IN	2600.00
417		1			D.V. Latch Down Plug & Baffle	1	ea	200	IN	200.00

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 John J. Darrah by Don L.
 DATE SIGNED 6-7-10 TIME SIGNED 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	P.1 PAGE TOTAL	6800.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P.2	4772.35
WE UNDERSTOOD AND MET YOUR NEEDS?				subtotal	11572.35
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Barton TAX 6.3%	516.79
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	12,089.14
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		<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: Don L. APPROVAL: _____

Thank You!

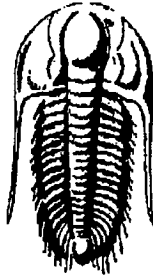
JOB LOG

SWIFT Services, Inc.

DATE 6-6-10 PAGE NO. 1

CUSTOMER John J. Derrah WELL NO. #9 LEASE _____ JOB TYPE Cement 2-Stage Longstring TICKET NO. 17645

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
<u>6/6</u>	<u>1700</u>							<u>ID-3379</u> <u>On location with float equip - Rig LD DC</u>
	<u>1720</u>							<u>Fin LD - Change over to Run 5 1/2" 14 1/2"</u>
	<u>1845</u>							<u>casing to (KB-337D) - 9' off bottom</u>
								<u>Rig start casing - Insert float shoe 6 1/2" sub-R</u>
								<u>DVLD Baffle - S.T 42 1/2'</u>
								<u>Cent - 1-2-10-58</u>
								<u>KCC</u>
								<u>Cent Baskets 2-59</u>
								<u>AUG 06 2010</u>
	<u>2005</u>							<u>D.V. collar 59' @ 900' - Drop ball & Extract</u>
	<u>2015</u>							<u>Hook up & cir to tag bottom</u>
	<u>2030</u>							<u>Lay down JT. test pipe 9' off bottom</u>
	<u>2115</u>							<u>Rig start cir casing - 45 min</u>
								<u>Fin cir - Hook to trk - Take on wheel</u>
		<u>5"</u>					<u>250</u>	<u>Pump 500 gal Mud Flush (1st stage)</u>
		<u>5 1/2"</u>	<u>12</u>				<u>250</u>	<u>Pump 20 BBI KCL Flush</u>
		<u>4 1/2"</u>	<u>32</u>				<u>250</u>	<u>Start 100 SKS EA-2 cent</u>
		<u>4 1/2"</u>	<u>24</u>				<u>use</u>	<u>Fin cent - Wash out Pump & Lines</u>
	<u>2145</u>	<u>8</u>					<u>300</u>	<u>Drop DVLD Plug - Start H₂O Displ.</u>
		<u>8</u>	<u>60</u>				<u>300</u>	<u>Start Mud Displ</u>
		<u>8</u>	<u>70</u>				<u>400</u>	<u>Caught cent.</u>
		<u>6 1/2"</u>	<u>75</u>				<u>500</u> <u>400</u>	<u>Slow rate</u>
		<u>5 1/2"</u>	<u>80</u>				<u>500</u>	<u>Slow rate</u>
	<u>2155</u>		<u>82 1/4</u>				<u>700</u> <u>1500</u>	<u>Plug down - Hold - Release & Hold</u>
	<u>2157</u>							<u>Drop D.V. opening tool - 1st stage complete</u>
	<u>2205</u>	<u>4</u>	<u>3</u>				<u>1100</u> <u>200</u>	<u>Open D.V. with trk</u>
<u>6/6</u>	<u>2210</u>							<u>Rig cir - 2 HR for 2nd stage</u>
	<u>2240</u>		<u>7 1/2</u>					<u>Fin cir - Plug RH-30SKS / MH-15SKS</u>
<u>6/7</u>								<u>2nd stage -</u>
	<u>0015</u>	<u>6</u>	<u>20</u>				<u>200</u>	<u>Pump 20 BBI KCL Flush</u>
		<u>5</u>					<u>500</u>	<u>Start 95 SKS SMD cent @ 11.2</u>
			<u>53</u>				<u>300</u>	<u>Fin cent - Drop D.V. closing Plug.</u>
		<u>7</u>					<u>300</u>	<u>Start Displ.</u>
	<u>0030</u>	<u>5 0</u>	<u>22</u>				<u>1500</u>	<u>Plug down - D.V. closed - Release & Hold</u>
								<u>2nd stage complete - Circulated 30 SKS cent</u>
								<u>Washup & Rackup</u>
								<u>RECEIVED</u>
								<u>AUG 06 2010</u>
								<u>KCC WICHITA</u>
								<u>Handwritten signature</u>
								<u>Don, Doug & Blaine</u>



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Company**

225 N Market
Suite #300
Wichita, KS 67202

ATTN: Will Darrah

18-16s-13w Barton KS

Bitter C #9

Start Date: 2010.06.06 @ 05:29:11

End Date: 2010.06.06 @ 11:45:11

Job Ticket #: 38623 DST #: 1

**KCC
AUG 06 2010
CONFIDENTIAL**

**RECEIVED
AUG 06 2010
KCC WICHITA**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Darrah Oil Company

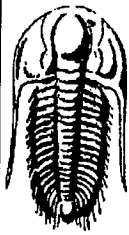
Bitter C #9

18-16s-13w Barton KS

DST # 1

Arbuckle

2010.06.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company

225 N Market
Suite #300
Wichita, KS 67202
ATTN: Will Darrah

Bitter C #9

18-16s-13w Barton KS

Job Ticket: 38623

DST#: 1

Test Start: 2010.06.06 @ 05:29:11

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:16:11

Time Test Ended: 11:45:11

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 47

Interval: **3365.00 ft (KB) To 3379.00 ft (KB) (TVD)**

Total Depth: 3379.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1937.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press@RunDepth: 261.06 psig @ 3366.00 ft (KB)

Start Date: 2010.06.06

End Date: 2010.06.06

Start Time: 05:29:16

End Time: 11:45:10

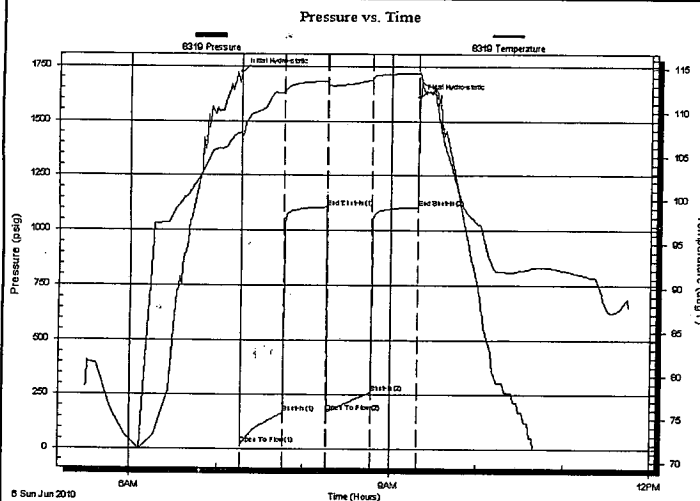
Capacity: 8000.00 psig

Last Calib.: 2010.06.06

Time On Btmr: 2010.06.06 @ 07:15:41

Time Off Btmr: 2010.06.06 @ 09:19:11

TEST COMMENT: IFP-Strong blow BOB in 8 min
ISI-Weak blow back built to 3 in
FFP-Strong blow BOB in 6 min
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.08	107.68	Initial Hydro-static
1	21.66	107.11	Open To Flow (1)
30	167.06	112.25	Shut-In(1)
60	1107.00	113.53	End Shut-In(1)
61	172.44	113.25	Open To Flow (2)
91	261.06	113.72	Shut-In(2)
123	1106.38	114.44	End Shut-In(2)
124	1606.67	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	HOCGW25%O25%G10%W30%M	0.31
63.00	WMO5%W15%M80%O	0.31
582.00	Free Oil	7.10
0.00	267 GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Company
225 N Market
Suite #300
Wichita, KS 67202
ATTN: Will Darrah

Bitter C #9
18-16s-13w Barton KS
Job Ticket: 38623 **DST#: 1**
Test Start: 2010.06.06 @ 05:29:11

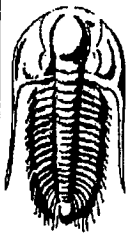
Tool Information

Drill Pipe:	Length: 3107.00 ft	Diameter: 3.80 inches	Volume: 43.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 243.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3365.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3345.00	
Shut In Tool	5.00			3350.00	
Hydraulic tool	5.00			3355.00	
Packer	5.00			3360.00	21.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Stubb	1.00			3366.00	
Recorder	0.00	8319	Inside	3366.00	
Recorder	0.00	6719	Outside	3366.00	
Perforations	10.00			3376.00	
Bullnose	3.00			3379.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company

Bitter C #9

225 N Market
Suite #300
Wichita, KS 67202
ATTN: Will Darrah

18-16s-13w Barton KS
Job Ticket: 38623 **DST#: 1**
Test Start: 2010.06.06 @ 05:29:11

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	HOCGVM25%O25%G10%V30%M	0.310
63.00	VMO5%W15%M80%O	0.310
582.00	Free Oil	7.098
0.00	267 GIP	0.000

Total Length: 708.00 ft Total Volume: 7.718 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

