



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1071786  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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)

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 #: \_\_\_\_\_

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1071786

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Vohs B 11
Doc ID	1071786

All Electric Logs Run

Microresistivity Log
Dual Compensated Porosity Log
Dual Induction Log
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Vohs B 11
Doc ID	1071786

Tops

Name	Top	Datum
Anhydrite Top	1437	638
Anhydrite Base	1476	599
Topeka	3010	-935
Heebner Shale	3226	-1151
Toronto	3247	-1172
LKC	3267	-1192
BKC	3496	-1421
Simpson Sand	3552	-1477
Arbuckle	3582	-1507

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 08, 2012

Jeff Wood  
Landmark Resources, Inc.  
1616 S VOSS RD STE 150  
HOUSTON, TX 77057-2641

Re: ACO1  
API 15-163-23988-00-00  
Vohs B 11  
NW/4 Sec.13-10S-19W  
Rooks County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jeff Wood



24 S. Lincoln Street  
P.O. Box 31  
Russell, KS 67665-2906

Voice: (817) 546-7282  
Fax: (817) 246-3361

PAID NOV 01 2011

CHK # 40274  
\$ 17,971.75  
71730  
73550

# INVOICE

Invoice Number: 129000  
Invoice Date: Oct 19, 2011  
Page: 1

Federal Tax I.D.#: 20-5975804

**Bill To:**

Landmark Resources, Inc.  
1616 S. Voss  
ST #150  
Houston, TX 77057-1264

APPROVED OCT 31 ENT'D

COPY

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Land	Vohs# B-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Oct 19, 2011	11/18/11

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	ASC	19.00	3,325.00
1,400.00	MAT	Gilsonite	0.89	1,246.00
149.00	MAT	Flo Seal	2.70	402.30
500.00	MAT	WFR-2	1.10	550.00
425.00	MAT	Class A Lightweight	14.50	6,162.50
570.00	SER	Handling	2.25	1,282.50
45.00	SER	Mileage	62.70	2,821.50
1.00	SER	Production String	2,225.00	2,225.00
45.00	SER	Heavy Vehicle Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	EQP	5 1/2 DV Tool	2,605.00	2,605.00
3.00	EQP	5 1/2 Baskets	236.00	708.00
12.00	EQP	5 1/2 Centralizers	34.00	408.00
1.00	EQP	5 1/2 AFU Float Shoe	245.00	245.00
1.00	CEMENTER	Shane Poche		
1.00	OPER ASSIST	Nicholas Williams		
1.00	OPER ASSIST	Mark Radke		

Discount  
↓

23,461.86

5,490.11

000

17,971.75

Subtotal	22,475.80
Sales Tax	986.06
Total Invoice Amount	23,461.86
Payment/Credit Applied	
<b>TOTAL</b>	<b>23,461.86</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 5490.11

ONLY IF PAID ON OR BEFORE  
Nov 13, 2011

# ALLIED CEMENTING CO., LLC. 038342

Federal Tax I.D.# 20-5975804

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>10/19/11</u>	SEC. <u>13</u>	TWP. <u>10S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 AM</u>	JOB FINISH <u>4:00 AM</u>
LEASE <u>Vols 15</u>	WELL # <u>11</u>	LOCATION <u>Plainville St to A Road</u>	CITY / COUNTY / STATE <u>Rock / KS</u>				
OLD OR NEW (Circle one)		<u>5 1/2 W NINTS</u>					

CONTRACTOR Mundis Drilling Rig #16

TYPE OF JOB Production (string)

HOLE SIZE 5 7/8 T.D. 3700'

CASING SIZE 5 1/2 DEPTH 3700'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL PV Tool DEPTH 1439.02

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 20'

CEMENT LEFT IN CSG. 26'

PERFS.

DISPLACEMENT 87,58 bbl

EQUIPMENT 34,20 bbl

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 175 ASC 8 # Gilsonite / 5K 37.6 gal 1/4 # Fl. / 425 6 1/2 67.6 gal 1/4 # Fl. / 500 Gal WFR-2

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC <u>175</u>	@	<u>19.00</u>	<u>3325.00</u>
<u>Gilsonite 1400 #</u>	@	<u>1.89</u>	<u>1296.00</u>
<u>Fls Seal 149 #</u>	@	<u>2.70</u>	<u>402.30</u>
<u>WFR-2 500 Gal</u>	@	<u>1.10</u>	<u>550.00</u>
<u>Life 425</u>	@	<u>14.50</u>	<u>6162.50</u>
HANDLING <u>570</u>	@	<u>2.25</u>	<u>1282.50</u>
MILEAGE <u>111/16 mile</u>			<u>2821.50</u>
TOTAL			<u>15,789.80</u>

REMARKS:

Rat Hole Boster Sealed 3600'  
Rain Pipe to Bottom East Circulation  
Mixed 500 Gal w/Fl-2. Mixed  
175 Skt. Shut down washed pump  
Lower Displacement 87,58 bbl  
Cardinal Plug 1700psi Released  
Float Held. Drapped Port Opened  
PV Tool @ 1000 psi. Mixed 395 Skts  
to Circulate Cement.  
Close PV Tool @ 2000psi. Released  
Held.

CHARGE TO: Landmark Resources

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

*Thanks!*

To Allied Cementing Co., 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.

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>2225.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>45</u>	@	<u>7.00</u>	<u>315.00</u>
MANIFOLD	@		
<u>CVL 45</u>	@	<u>4.00</u>	<u>180.00</u>
TOTAL			<u>2720.00</u>

PLUG & FLOAT EQUIPMENT

<u>OV Tool</u>			<u>2605.00</u>
<u>3 - Parkats</u>	@	<u>236.01</u>	<u>708.03</u>
<u>12 - Centralizers</u>	@	<u>34.00</u>	<u>408.00</u>
<u>ASC Float Shoe</u>	@		<u>245.00</u>
<u>Catch down</u>	@		<u>N-C</u>
TOTAL			<u>3966.00</u>

SALES TAX (If Any) LLC

PRINTED NAME ALLAN WALKER

DISCOUNT 20%

IF PAID IN 30 DAYS

SIGNATURE AW Walker





24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906

Voice: (817) 546-7282  
 Fax: (817) 246-3361

COPY

# INVOICE

Invoice Number: 128907  
 Invoice Date: Oct 12, 2011  
 Page: 1

**Bill To:**  
 Landmark Resources, Inc.  
 1616 S. Voss  
 ST #150  
 Houston, TX 77057-1264

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
		Net 30 Days	
Land	Vohs # B-11	Service Date	Due Date
Job Location	Camp Location	Oct 12, 2011	11/11/11
KS2-01	Russell		

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
158.00	SER	Handling	2.25	355.50
45.00	SER	Mileage	17.38	782.10
1.00	SER	Cement Surface	1,125.00	1,125.00
45.00	SER	Heavy Vehicle Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	CEMENTER	Glenn Ginther		
1.00	OPER ASSIST	Woody O'Neil		
1.00	OPER ASSIST	Nicholas Williams		

*✓ DISCOUNT*

Subtotal	5,549.85
Sales Tax	175.91
Total Invoice Amount	5,725.76
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,725.76</b>

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. 1 1/2% CHARGED  
 THEREAFTER. IF ACCOUNT IS  
 CURRENT, TAKE DISCOUNT OF  
 \$1493.10  
 ONLY IF PAID ON OR BEFORE  
 Nov 6, 2011

*-1493.10*  
*4,232.66*

# ALLIED CEMENTING CO., LLC. 038316

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell Ks

DATE <u>10-12-2011</u>	SEC. <u>13</u>	TWP. <u>10 S</u>	RANGE <u>19 W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:50 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>VOHS</u>	WELL # <u>B-11</u>	LOCATION <u>Plainville 3S W 1/2 S.</u>		COUNTY <u>ROCK'S</u>	STATE <u>KANSAS</u>		
OLD OR NEW (Circle one)							

CONTRACTOR MURFIN DRG - Rig #16 OWNER \_\_\_\_\_

TYPE OF JOB Cement SURFACE

HOLE SIZE 12 1/4 T.D. 280'

CASING SIZE 8 5/8 DEPTH 219'

TUBING SIZE NEW 2 1/2" DEPTH \_\_\_\_\_

DRILL PIPE DEPTH \_\_\_\_\_

TOOL DEPTH \_\_\_\_\_

PRES. MAX MINIMUM \_\_\_\_\_

MEAS. LINE SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15

PERFS. \_\_\_\_\_

DISPLACEMENT 13 BBL

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER GLENN

# 417 HELPER WOODY

BULK TRUCK \_\_\_\_\_

# 378 DRIVER NICK

BULK TRUCK \_\_\_\_\_

# DRIVER \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 sk Comm.

380 cc

290 Gel

COMMON	<u>150</u>	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
GEL	<u>2</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.20</u>	<u>291.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>158</u>	@ <u>2.25</u>	<u>355.50</u>
MILEAGE	<u>11/16/24</u>		<u>782.16</u>
TOTAL			<u>3929.85</u>

REMARKS:

Ran 5 New JTS of 24 # 8 5/8 csg,  
Set @ 219' Received Circulation  
& mixed 150 sk Com 38 cc 290 gel  
Displace 13 BBL H<sub>2</sub>O & Shut IN  
@ 1350 # Cement DID Circulate  
TO SURFACE

THANK'S

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>45</u>	@ <u>7.00</u>	<u>315.00</u>
MANIFOLD	@		
	@		
<u>CUL</u>	<u>45</u>	@ <u>4.00</u>	<u>180.00</u>
TOTAL			<u>1620.00</u>

CHARGE TO: LANDMARK Resources Inc.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			_____

To Allied Cementing Co., 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.

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 5,549.85

DISCOUNT 202 IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE

Ag. L. L.

Rig #: 16  
 Rig Type: IUD ROTARY  
 Spud Date: 9/28/2011  
 TD Date: 10/18/2011  
 Rig Release:


Time: 3:34 PM  
 Time: 4:45 AM  
 Time:

**ELEVATIONS**

K.B. Elevation: 2075.00ft      Ground Elevation: 2070.00ft  
 K.B. to Ground: 5.00ft

**NOTES**

**DST #1 TOPEKA**

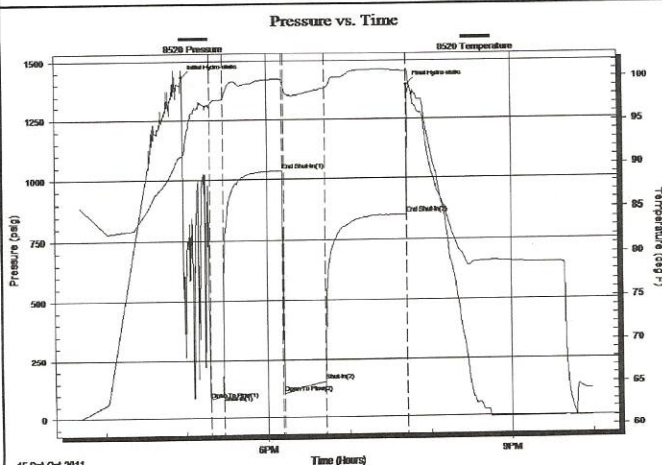
	<b>DRILL STEM TEST REPORT</b>	
	Landmark Resources INC, 1616 S. Voss RD, STE 150 Houston TX, 77057 + 2641 ATTN: Jeff Lawler	<b>13 -10-19w Rooks KS</b> <b>Vons "B" #11</b> Job Ticket: 44658 <b>DST#: 1</b> Test Start: 2011.10.15 @ 15:32:00

**GENERAL INFORMATION:**

Formation: **Topeka**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 17:18:00  
 Time Test Ended: 21:59:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 38  
 Interval: **3026.00 ft (KB) To 3054.00 ft (KB) (TVD)**  
 Total Depth: 3054.00 ft (KB) (TVD)  
 Reference Elevations: 2075.00 ft (KB)  
 2070.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 5.00 ft

**Serial #: 8520      Outside**  
 Press@RunDepth: 153.35 psig @ 3027.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.10.15      End Date: 2011.10.15      Last Calib.: 2011.10.15  
 Start Time: 15:42:00      End Time: 21:59:30      Time On Btm: 2011.10.15 @ 16:57:50  
 Time Off Btm: 2011.10.15 @ 19:43:00

**TEST COMMENT:** 30 - IF- B.O.B. in 21 Min  
 45 - IS- No blow back  
 30 - FF- B.O.B. in 26 Min  
 60 - FS- No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1430.13	91.11	Initial Hydro-static
21	79.55	97.02	Open To Flow(1)
30	97.08	97.68	Shut-In(1)
74	1033.41	99.89	End Shut-In(1)
75	103.17	99.02	Open To Flow(2)
105	153.35	98.82	Shut-In(2)
165	852.49	100.72	End Shut-In(2)
166	1394.16	101.01	Final Hydro-static

**Recovery**

Length(ft)	Description	Volume(bbl)
62.00	M, 100%M	0.59
186.00	MW, 30%M, 70%W	2.61

**Gas Rates**

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


50.00	MW, Oil scum, 10%w, 90%	0.70

Trilobite Testing, Inc

Ref. No: 44658

Printed: 2011.10.15 @ 23:01:51

**DST #2 ARBUCKLE**

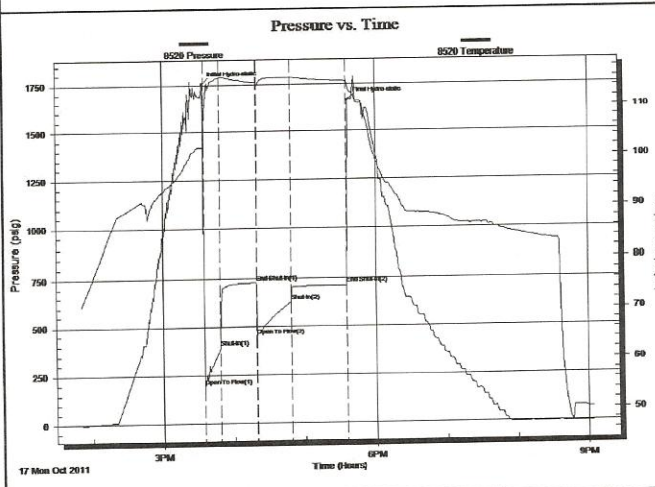
 <b>TRILOBITE TESTING, INC</b>	<b>DRILL STEM TEST REPORT</b>	
	Landmark Resources Inc 1616 S. Voss RD, STE 150 Houston, TX 77057 + 2641  ATTN: Jeff Lawler	<b>13 -10-19w Rooks,KS</b>  <b>Vons "B" #11</b> Job Ticket: 44659 <b>DST#: 2</b> Test Start: 2011.10.17 @ 13:41:00

**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 15:34:40	Unit No: 38
Time Test Ended: 21:04:30	Reference Elevations: 2075.00 ft (KB)
Interval: <b>3564.00 ft (KB) To 3588.00 ft (KB) (TVD)</b>	2070.00 ft (CF)
Total Depth: 3588.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

<b>Serial #: 8520</b> <b>Outside</b>	Capacity: 8000.00 psig
Press@RunDepth: 625.88 psig @ 3565.00 ft (KB)	Last Calib.: 2011.10.17
Start Date: 2011.10.17      End Date: 2011.10.17	Time On Btm: 2011.10.17 @ 15:34:10
Start Time: 13:51:00      End Time: 21:04:30	Time Off Btm: 2011.10.17 @ 17:36:00

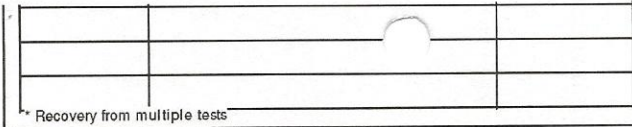
**TEST COMMENT:** 15 - IF- B.O.B. in 2 Min  
 30 - IS- No blow back.  
 FF- B.O.B. in 2 1/2 Min  
 FSI- No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.14	101.88	Initial Hydro-static
1	191.67	102.02	Open To Flow(1)
15	389.13	115.97	Shut-In(1)
45	729.32	114.96	End Shut-In(1)
46	450.30	114.25	Open To Flow(2)
75	625.88	116.00	Shut-In(2)
121	714.63	115.20	End Shut-In(2)
122	1663.81	114.39	Final Hydro-static

Recovery		
Length(ft)	Description	Volume(bbl)
248.00	GVSOCWM, 5%G, 5%O, 40%W, 50%M	3.20
930.00	GVSOCMW, 5%G, 5%O, 85%W, 5%M	13.05
279.00	SOCMW, 10%O, 40%M, 50%W	3.91

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



Trilobite Testing, Inc

Ref. No: 44659

Printed: 2011.10.17 @ 21:33:20

### ROCK TYPES

Cht vari	Dolsec	shale, gry	Shcol
Chtcongl	Lmst fw7>	Carbon Sh	Ss
Dolprim	shale, grn	shale, red	Sltst

### ACCESSORIES

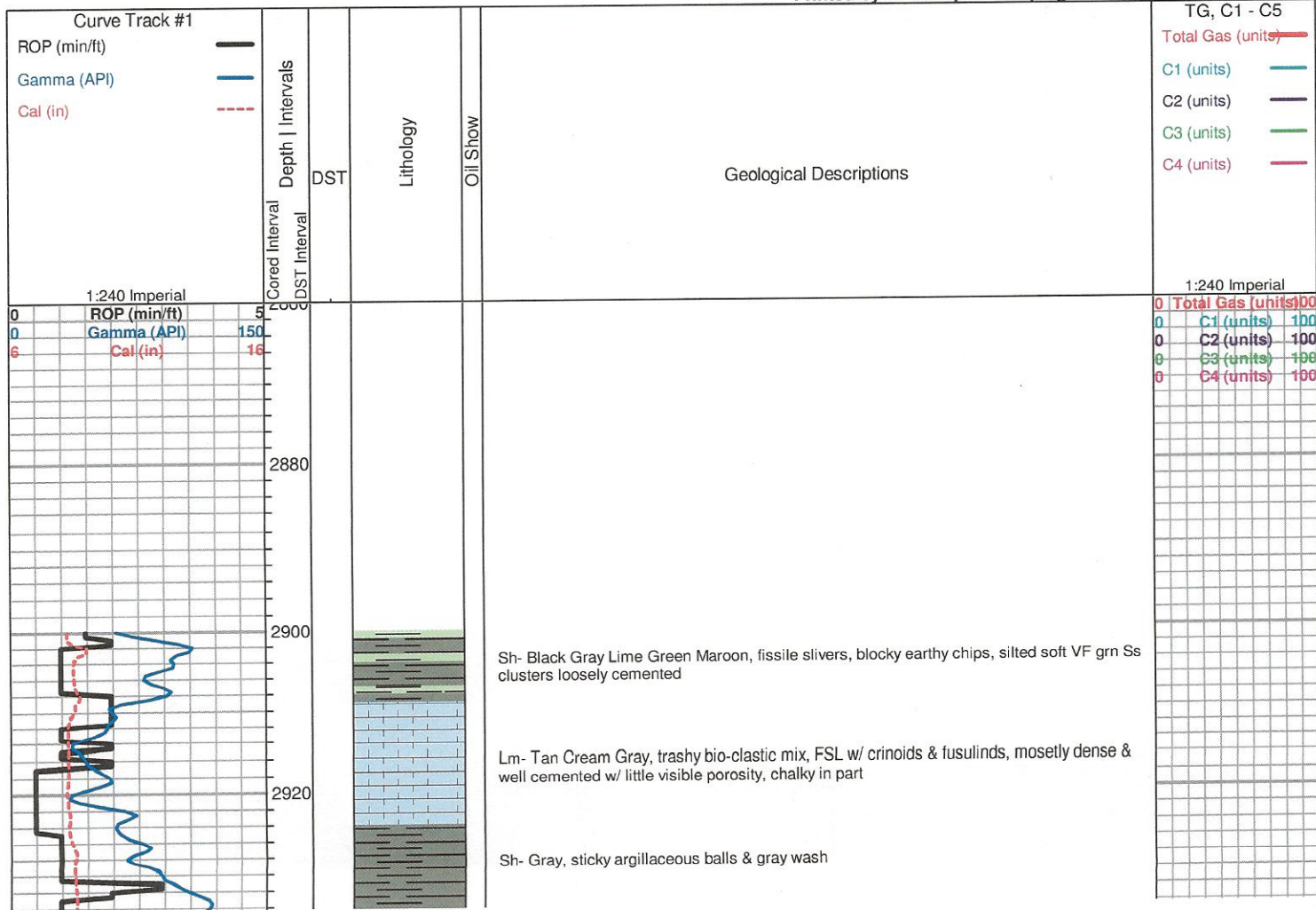
**FOSSIL**  
 Oomoldic

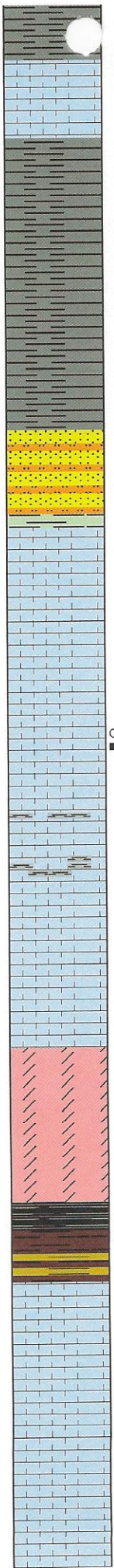
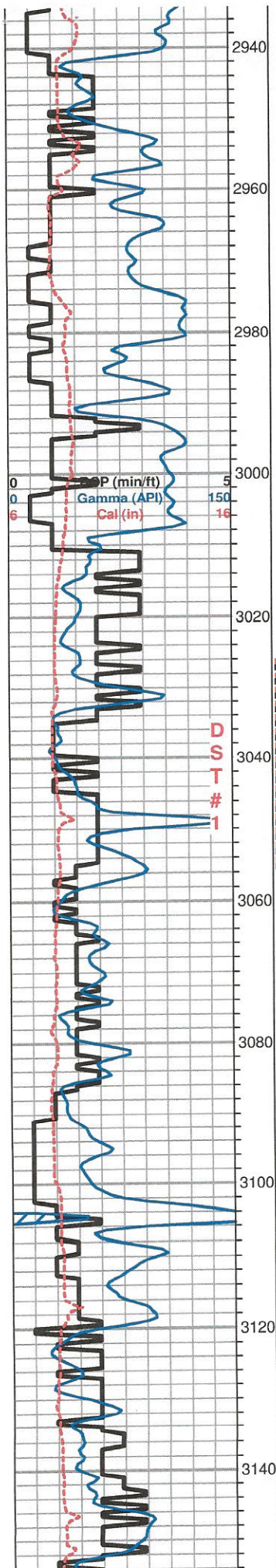
**STRINGER**  
 Chert  
 Dolomite  
 Shale

### OTHER SYMBOLS

**DST**  
 DST Int  
 DST alt  
 Core

Printed by GEOstrip VC Striplog version 4.0.7.0 ([www.grsi.ca](http://www.grsi.ca))





Lm- Gray Tan, Crse grn clastic, unconsolidated, trahsy, peebly in part, mottled, dense & granular

Sh- Abundant Gray wash shale & argillaceous sticky clumps

Lm/Ss- Gray Tan Brown, VF-Med grn, trahsy mix, FLS w/ fusulinids & crinoids

Sh-Lime Green, waxy blocky, well compacted, speckled w/ pryite.  
 Ss- Dove Gray VF gnr, friable clusters, speckled w/ glauconite

TOPEKA 3010' (-935) E-LOG 3008 (-933) Lm- Tan Cream, Med XLN, granular, gritty, oolitic, well cemented & silted in part

Lm- Tan Cream, VF grn cryptocrystalline w. minimal visible porosity, mostly dense

Lm- Cream Tan, VF grn, some XLN, mostly pinpoint porosity, some micro-vugs semi-soft, loosely cemented, LT GSY SAT STN, FNT ODR, SLOW CLOUDY WET CUT

Lm- Cream Tan Lt Gray, VF-Med grn, moderatly dense from no visible porosity to pinpoint porosity

Lm- Tan Gray, Med grn, clastic, some unconsolidated & grainy, pinpoint porosity, silted & chalky in part

Lm- Gray Black, trashy bio-clastic, FSL w/ crinoids & fusulinids

Dol- Tan, VF XLN, well cemented, good consistant porosity throughout, CLEAN & BARREN

Sh- Black Maroon, Blocky & dense, well compacted, fissile

Lm/Dol- Lt Tan Cream, VF XLN, mottled, clastic unconsolidated, some sucrosic, CLEAN & BARREN

Lm- Cream Tan Gray, VFXLN, mostly dense w/ little to no visible porosity, few chips w/ minimal XLN interstitial porosity & recrystallization

Lm- Buff Cream, VF dense cryptocrystalline w/ no visible porosity, slightly FSL w/ bi-valve casts

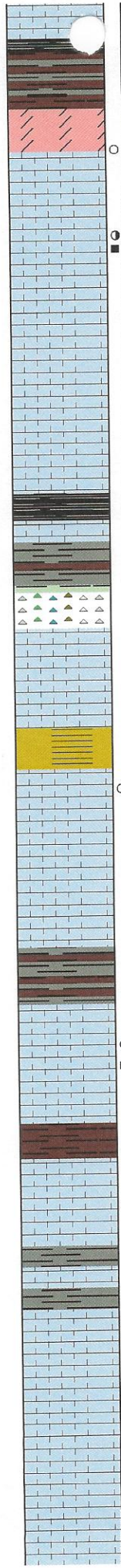
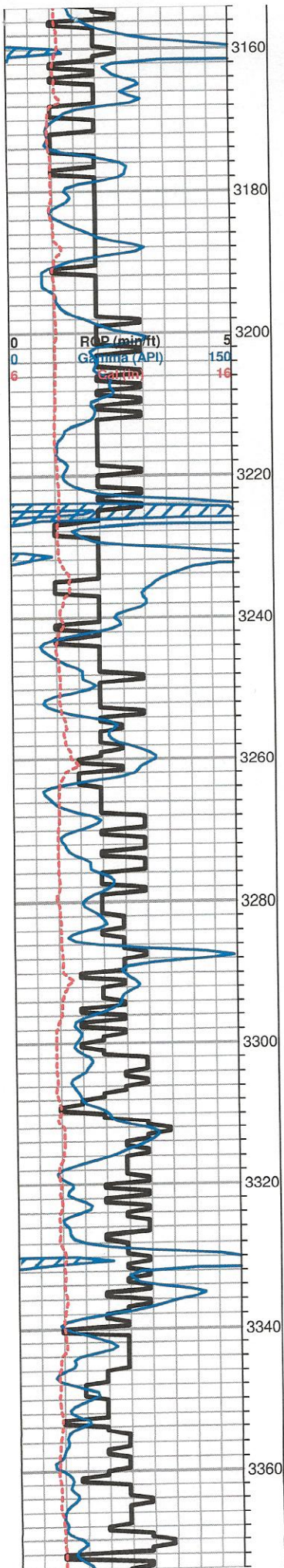
0	Total Gas (units)	00
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

CFS @ 3050'  
 DST #1  
 SHORT TRIP  
 SLOPE

CTCH @ 3086'

MUD-CO MUD  
 CHECK  
 WT. 8.8 VIS.51  
 LCM 5#

MUD CHECK  
 WT. 8.8 VIS 53  
 LCM 5#



Sh- Black Maroon Gray Lime Green, blocky, slick, well cemented, clumps of argillaceous green wash chalky lime, gritty & earthy

DoI- Tan, VF XLN, sucrosic, pinpoint porosity, 1 or 2 chips LT GSY SCATTERED STN, NFO, FNT ODR, few chips w/ edge recrystallization & DRK STN, NFO

Lm- Tan Cream, VF grn, silted & chalky in part, slightly dolomitic, pinpoint porosity, few chips DRK HVY STN, ODR, SLOW WET CUT, 1 CHIP FO UPON CRUSH

Lm- Lt Brown Tan, A/A, better cemented, granular, dense cryptocrystalline w/ scattered pinpoint porosity 2 chips w/ edge LT STN, FNT ODR, CLOUDY WET CUT, NFO

Lm- Tan LT Gray, trashy clastic silty mix, black mottling, dense w/ pinpoint porosity

Lm- Tan Cream, VF grn, dense & well cemented, pinpoint to scattered vuggy porosity w/ HVY DRK STN, FEW CHIPS W/ FO INSTANT STREAMING WET CUT FNT ODR

HEEBNER 3226' (-1151) E-LOG 3223' (-1148) Sh- Black Carbonaceous fissile

Sh- Gray Red Lime Green, chalky in part, lime green soft & sticky

Chert- Black Golden Brown White, angular bedded chert, FSL w/ crinoids, oolitic in part

TORONTO 3247' (-1172) E-LOG 3242' (-1167) Lm- Tan Cream Off White, VF XLN, pinpoint porosity, some moderately dense w/ scattered pinpoint porosity, chalky in part, few chips w/ edge recrystallization & HVY DRK TO LT GSY STN, FNT ODR, 1 CHIP FO UPON CRUSH, STRM WET CUT

LKC 3267' (-1192) E-LOG 3262' (-1187) Lm- Tan Cream, microcrystalline & moderately dense w/ scattered vuggy porosity, recrystallization in vugs, DRK HVY STN SATURATED IN VUGS, FR ODR

Lm- Buff Lt Gray, VF-Med XLN, chalky in part, pinpoint porosity, slightly FSL w/ crinoids, pinpoint interXLN porosity

Sh- Gray Maroon, mottled, gritty & earthy

Lm- Cream Tan, Med-Crse XLN, oolitic, partially dense w/ scatter well developed interstitial XLN & vuggy porosity, HVY DARK SCATTERED STN, FEW CHIPS W/ DARK GILSONITE RESIDUE, FR ODR, STREAMING WET CUT w/in vugs, recrystallization w/in vugs

Lm- Lt Gray Buff, VF XLN, moderately dense w/ minimal visible porosity to micro pinpoint porosity,

Lm- Off White Cream, Med XLN, scattered pinpoint porosity, some edged recrystallization porosity, both w/ LT BRWN - BLK HVY SCATTERED FR STN, FR ODR, SLOW CLOUDY WET CUT

Lm- Lt Brown Tan, Med-Coarse XLN, oolitic & siliceous, well developed w/ recrystallized vuggy porosity, LT BRWN CONSISTANT GSY STN, INSTANT STRM WET CUT, FR ODR,

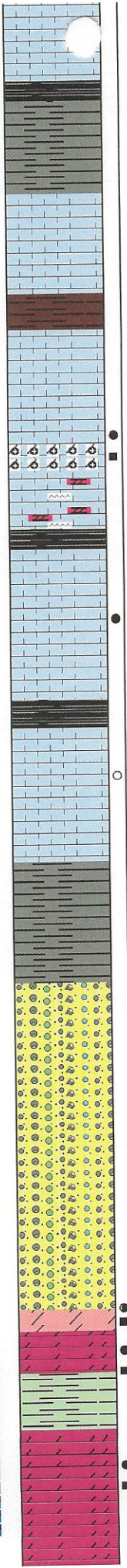
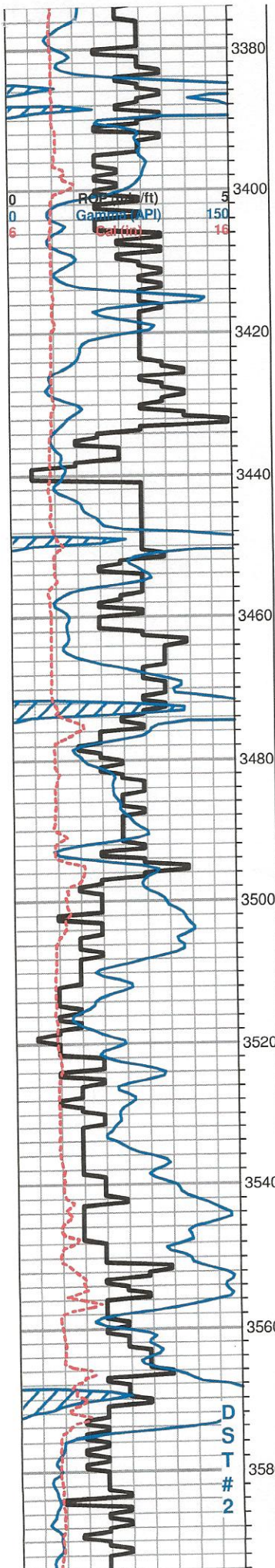
Lm- Tan Cream, oolitic, friable, chalky in part, well developed w/ consistant vuggy porosity, LT BRWN GSY STN, GD ODER, VISIBLE GAS DISSOLUTION, NFO

Lm- Tan Cream, Med-Crs XLN, oolitic, very well developed w/ good vuggy porosity, mostly throughout, few chips w/ edge porosity, interstitial recrystallization, BRWN GSY STN, ODR, NFO, INSTANT STRM WET CUT

MUD CHECK  
WT 8.9 VIS 65  
LCM 7#  
C4 (units) 100

CFS @ 3265'





Sh- Black Gray Brown, dense, blocky slivers, gritty silty chips

Lm- Tan, VF grn, poorly developed & dense, very well cemented, no visible porosity, granular in part, rounded,

Lm- Off White Cream Brown, VF-F XLN, moderately dense w/ minimal visible porosity, grainy, slightly dolomitic

Lm- Tan Cream, FXLN, consistant vuggy oolitic oolimoldic porosity, recrystallization w/in vugs HVY BROWN SATURATED STN, GOOD ODR, GOOD SFO, FO UPON CRUSH, INSTANT WET CUT

Lm- White Cream, VF XLN, dense cherty dolomitic Ls w/ fractured porosity, silicious, few chips of milky white & semi-translucent angular bedded chert

**STARK SHALE E-LOG 3447' (-1372)**

Lm- VFXLN, consistant pinpoint porosity throughout w/ recrystallization, DRK BROWN SATURATED GSY STN, ODR, STREAMING WET CUT, NFO

Sh- Gray Maroon Lime Green Black, fissile, waxy, grainy & earthy, carbonaceous slivers

Lm- Cream Tan, VFXLN, moderately dense, some recrystallization on weathered edge, FNT LT GSY STN, NO ODR, NSFO

**BKC 3596' (-1421) E-LOG 3493' (-1418) Sh- Gray Lime Green Maroon**

Cherty Conglomerate-White Black Red Maroon, angular bedded bone white & nodular black chert, abundant red wash sh,

Cherty Conglomerate, A/A w/ eggshell white, semi-translucent & some yellow tinted chert

Cherty Conglomerate- A/A w/ increasing shale, arkosic red shale clusters, weathered multi-colored shale & cherty mix

Cherty Conglomerate- A/A

**SIMPSON SAND E-LOG 3558' (-1483)** Ss- Tan, VF grains, round - subrounded, very friable, sorted, DRK HVY SATURATED STN, SLOW STREAMING CUT  
Dolomite- Yellowish tint Tan, tVF-Med XLN, well cemented to friable, dense w/ microXLN to good pinpoint porosity, DRK HVY STN, NO ODR, INSTANT STREAMING WET CUT

Dolomite- Various Colored, VF-Coars XLN, sucrosic w/ pinpoint porosity to interXLN vugular porosity, DRK HVY SAT STN, FO UPON CRUSH, few chips of VF XLN, dense clean & barren

Sh- Lime Green Mint Green Pea Green, dense waxy blocky

**ARBUCKLE 3582' (-1507) E-LOG 3575' (-1500)** Dolomite- Off White, F-Coarse XLN, good XLN & vuggy porosity throughout, sub-rounded rhombs, VF cubic recrystallization w/ in vugs HVY DRK SAT STN, INSTANT STRM WET CUT, GOOD HVY SULPHURIC ODR

MUD CHECK  
WT. 9.0 VIS 52

0 Total Gas (units) 100  
0 C1 (units) 100  
0 C2 (units) 100  
0 C3 (units) 100  
0 C4 (units) 100

MUD CHECK  
WT. 9.1 VIS 50

CFS @ 3498'

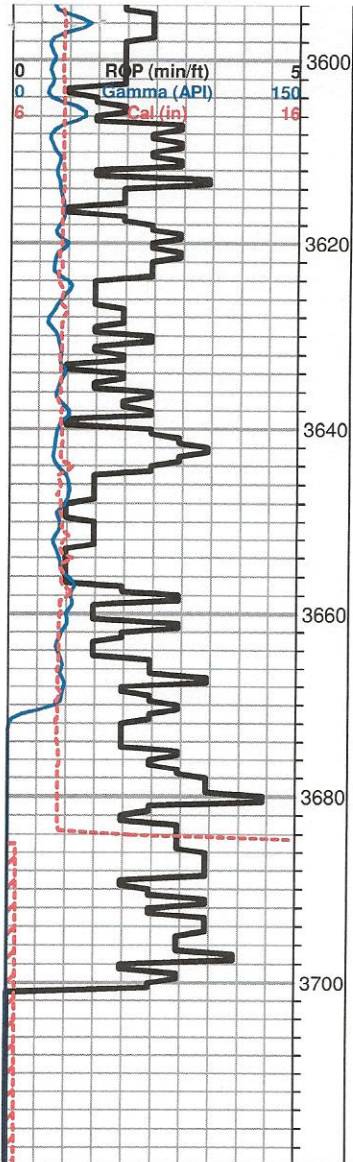
CFS @ 3520'

DST #2  
3564' - 3588'

CFS @ 3575'

MUD-CO CHK  
WT. 9.2 VIS 67 LCM 6#  
RR @ 3578'  
CFS @ 3585'

CFS @ 3588'



- Dolomite- Off White Tan, Med XLN, consistant XLN size, joint porosity, HVY DRK SAT STN, ODR, LIVELY FO
  - Dolomite- A/A w/ Pink & Salmon FXLN, DRK HVY EDGE STN, SFO,
  - Dolomite- A/A + White, VFXLN, rounded grains, fairly friable, very slow effervescense, NSO, NO STN
  - Dolomite- Tan, Coarse XLN, few cluster of clear coarse friable dolomite, GSFO of lively oil upon crush,
  - Dolomite/Chert- Tan White, Coarse XLN, large vuggy porosity w/ SCTRDR HVY FO & STN, some chips w/ eroded bone white chert, chips of angular bone white bedded chert,
  - Dolomite/Chert- Tan Cream, VRY Coarse XLN, well cemented, large vuggy porosity, chips of dense angular chert w/ eroded dolomite rhombs, chips of semi-translucent to frosted angular chert, shows lessing w/ depth
  - Dolomite/Chert- Various light colored angular chert, dolomite A/A
  - Dolomite- Tan Cream, Med-Coarse XLN, pinpoint to vuggy porosity, CLEAN & BARREN
  - Dolomite- Tan Cream, Med XLN, very well cemented w/ minimal visible porosity. mostly dense
- RTD 3700' (-1625) LTD 3699' (-1624) @ 04:45 OCTOBER 18,2011

SHORT TRIP  
STRAP 3590.71  
BOARD 3593.47  
BOARD +2.76

U	1.3 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

MUD-CO MUDCHECK  
WT. 9.3 VIS. 62  
LCM 7#  
SLOPE 1/4 dgr.