

Scale 1:240 Imperial

Well Name: Nancy #3-17

Surface Location: 2146' FNL 1701' FWL Sec 17-17S-13W

Bottom Location:

API: 15-009-25969-00-00

License Number:

Spud Date: 5/2/2014 Time: 7:45 PM

Region: Barton County

Drilling Completed: 5/9/2014 Time: 6:50 PM

Surface Coordinates: Y = 694524 & X = 1917760

Bottom Hole Coordinates:

Ground Elevation: 1965.00ft K.B. Elevation: 1978.00ft

Logged Interval: 2800.00ft To: 3525.00ft

Total Depth: 3525.00ft

Formation: Lansing-Kansas City
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC Address: 445 Union Blvd, Suite 208

Lakewood, CO 80228

Contact Geologist: Janine Sturdavant

Contact Phone Nbr: 303-907-2209 / 720-274-4682

Well Name: Nancy #3-17

Location: 2146' FNL 1701' FWL Sec 17-17S-13W API: 15-009-25969-00-00

Pool:

Field: Trapp

State: Kansas Country: USA

LOGGED BY



Company: Shelby Resources, LLC
Address: 445 UNION BLVD. Suite 208

LAKEWOOD, CO. 80228

Phone Nbr: 203-671-6034

Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources Nancy #3-17 was drilled to a total depth of 3525', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

5 DST's were conducted throughout the Lansing Kansas-City and Arbuckle Zones. The DST reports can be found at the bottom of this log.

Due to the DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to furthur test the well through production pipe. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: Latitude:

N/S Co-ord: Y = 694524E/W Co-ord: X = 1917760

CONTRACTOR

7:45 PM

6:50 PM

Time:

Time:

Contractor: Sterling Drilling Co

Rig #: 5

Rig Type: mud rotary
Spud Date: 5/2/2014
TD Date: 5/9/2014

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1978.00ft Ground Elevation: 1965.00ft

K.B. to Ground: 13.00ft

SHELBY RESOURCES, LLC

NANCY #3-17

1058

-1147

3125

CLIENT: WELL NAME:

ANHYDRITE TOP

HEEBNER SHALE

<u>DATE</u>	DEPTH	<u>ACTIVITY</u>
Tuesday, May 06, 2014	3050'	Geologist Jeremy Schwartz on location @ 0700hrs, DRLG ahead through King Hill,
		Queen Hill, Heebner, Toronto, Douglas, Brown Lime, LKC, CFS @ 3250', DRLG ahead
		CFS @ 3260, Short Trip, Strap Out, Drop Survey, Conduct DST #1
Wednesday, May 07, 2014	3260'	Successful Test, DRLG ahead, CFS @ 3278', DRLG ahead, CFS @ 3283'
	3283'	Conduct DST #2 In LKC "D-F', Successful Test, DRLG ahead
Thursday, May 08, 2014	3345'	DRLG ahead through LKC, CFS @ 3455', Conduct DST #3 in the Arbuckle
	3455'	Successful test, DRLG ahead, CFS @ 3462', Conduct DST #4 in the Arbuckle,
Friday, May 09, 2014	3462'	Successful Test, DRLG ahead, CFS @ 3468', Conduct DST #5 in the Arbuckle,
	3468'	Successful Test, DRLG ahead, TD @ 3525' reached at 1850hrs, Conduct Logging Ops
Saturday, May 10, 2014	3525'	Logging Operations Complete @ 0245hrs
		Geologist Jeremy Schwartz off location @ 0330hrs

LEGAL:	2146'	FNL & 1701	' FWL 17-1	7S-13W																		
COUNTY:		BAR	TON																			
API:		15-009-29	5969-0000																			
DRLG CONTRACTOR:		STERLING D	RILLING CO).																		
RIG #:		9	5	- 2																		
DOGHOUSE #:		620-38	38-5433																			
TOOLPUSHER:		ALAN	LOFTIS																			
CELL #:		620-38	38-2736																			
***													0					Ţ.				
						SHELBY RE	SOUR	CES, LI	.c			SHELBY RE	SOUR	ES, LL	.c			SHELBY RES	OURC	ES, LLI	C	
		NANC	Y #3-17			NANO	CY #2-	17				NANO	Y #1-:	17	1000			HOFFM	AN #1	-18		
		NE SW	SE NW		-	SW SW N	N 17-	175-13	W		-	N/2 SW N	W 17-	175-13	W		C S/2 NE 18-175-13W					
	КВ		1978		КВ		1:	997			КВ	Ü.	15	992			KB 1945					
9	LOG	TOPS	SAMPI	LE TOPS	COME	. CARD	LO)G	SN	1PL.	COME	. CARD	L)G	5N	IPL.	COMP	. CARD	LC	06	SM	IPL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CO	RR.
ANHYDRITE TOP	916	1062	916	1062	939	1058	+	4	+	4	928	1064	1.	2	11/2	2	890	1055	+	7	+	7
BASE	944	1034	945	1033	965	1032	+	2	+	1	956	1036	=	2	10	3	917	1028	+	6	+	5
KING HILL	2978	-1000	2978	-1000	2994	-997	+	3	¥	3	2986	-994	-	6	¥	6	2942	-997	-	3		3
QUEEN HILL	3042	-1064	3043	-1065	3059	-1062	156	2	10	3	3050	-1058	T.	6	11	7	3005	-1060		4	***	5
HEEBNER SHALE	3129	-1151	3130	-1152	3146	-1149	1	2	7.	3	3138	-1146	1	5	113	6	3092	-1147	9	4	+	5
TORONTO	3144	-1166	3148	-1170	3163	-1166	+	0	a	4	3156	-1164	=	2	31	6	3109	-1164	-	2	-	6
DOUGLAS SHALE	3157	-1179	3155	-1177	3173	-1176		3	4	1	3166	-1174	-	5	¥	3	3119	-1174	-	5	-	3
BROWN LIME	3212	-1234	3210	-1232	3229	-1232	1/6	2	+	0	3218	-1226	10	8		6	3173	-1228	0	6	***	4
LKC	3219	-1241	3218	-1240	3238	-1241	+	0	+	1	3228	-1236	146	5	10)	4	3182	-1237	=	4	-	3
LKCG	3292	-1314	3292	-1314	3309	-1312	4	2	1	2	3300	-1308	=	6	91	6	3250	-1305	-	9	-	9
MUNCIE CREEK	3344	-1366	3344	-1366	3365	-1368	+	2	+	2	3354	-1362	-	4	×	4	3309	-1364	-	2	-	2
LKC H	3349	-1371	3349	-1371	3372	-1375	+	4	+	4	3361	-1369	, to	2	T.	2	3316	-1371	+	0	+	0
STARK SHALE	3402	-1424	3403	-1425	3425	-1428	+	4	+	3	3413	-1421	1	3	-	4	3369	-1424	+	0	-	1
BKC	3428	-1450	3426	-1448	3452	-1455	+	5	+	7	3438	-1446	-	4	31	2	3397	-1452	+	2	+	4
RE-WORKED ARB	3436	-1458	3436	-1458																		
ARBUCKLE	3455	-1477	3455	-1477	3473	-1476	120	1	8	1	3476	-1484	+	7	+	7	3412	-1467		10	-	10
RTD			3525	-1547							3539	-1547			+	0	3525	-1580			+	33
LTD	3528	-1550			3476	-1479	-	71			3537	-1545	=	5			3526	-1581	+	31		
							STED						STED						TED			
					DS	T #1 (3236-	3300)	LKC "	A-D"		D:	ST #1 (3228	- 328) LKC	A-D		D	ST #1 (3176	-3237	LKC A	D	
PROGNO:	SIS					15-60	0-60-1	20				15-60	-60-1	20				IF BC)B 2M			

Good Blow BOB 3:45SEC

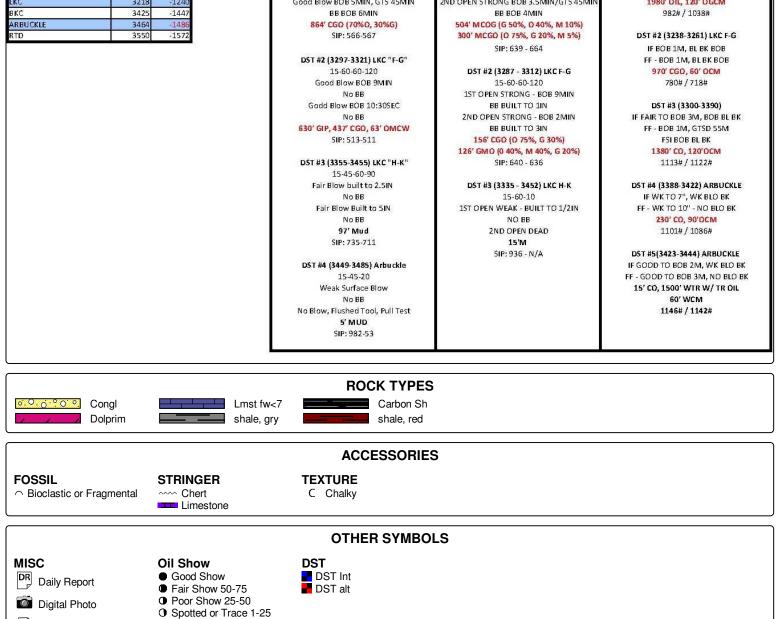
BB built to 6IN

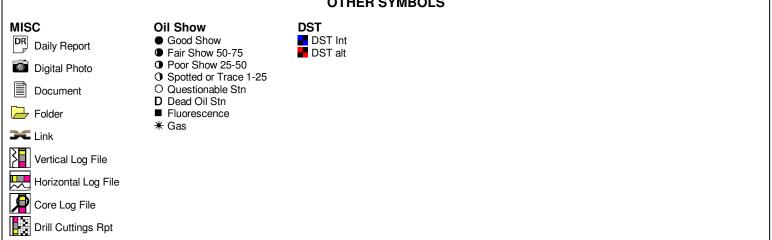
1ST OPEN STRONG - BOB 3MIN

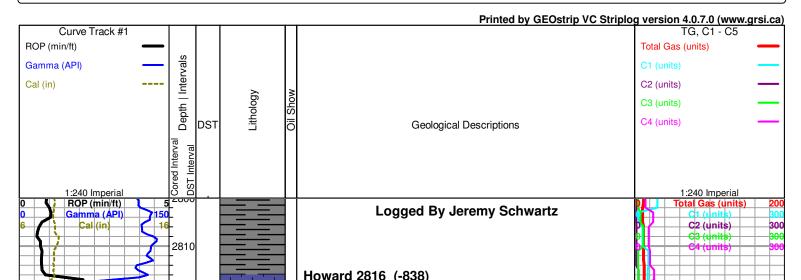
BB BOB 7MIN

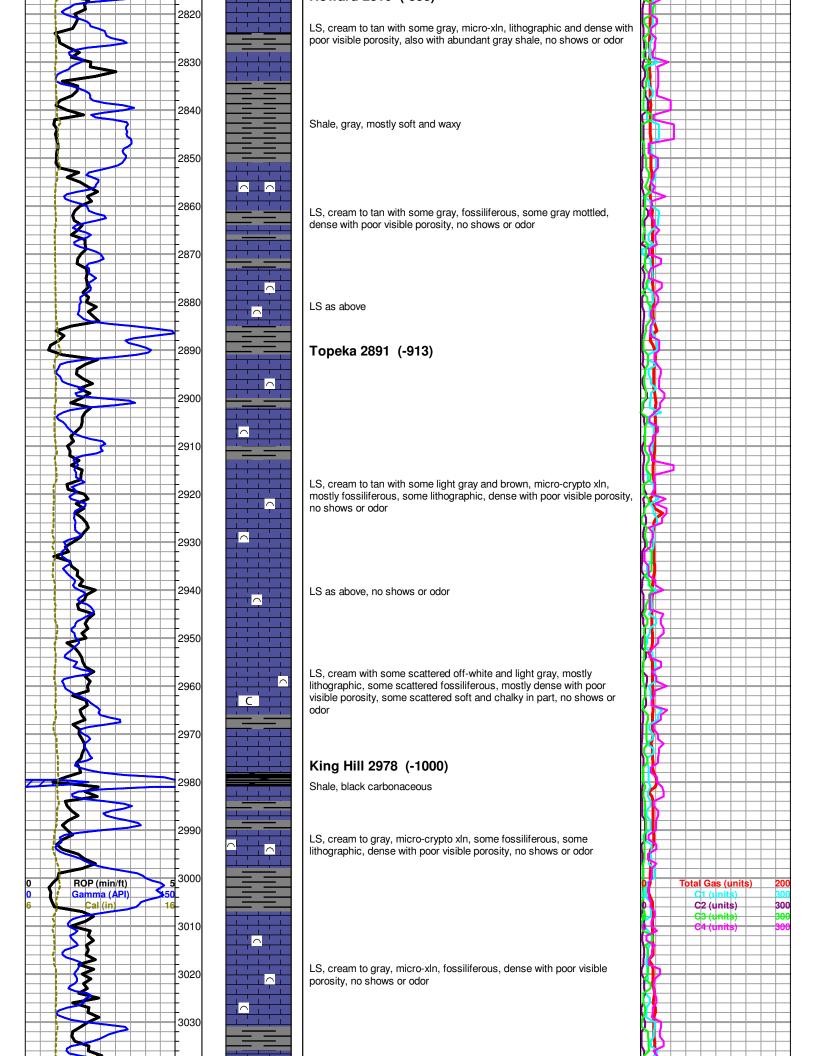
FF - BOB <1M

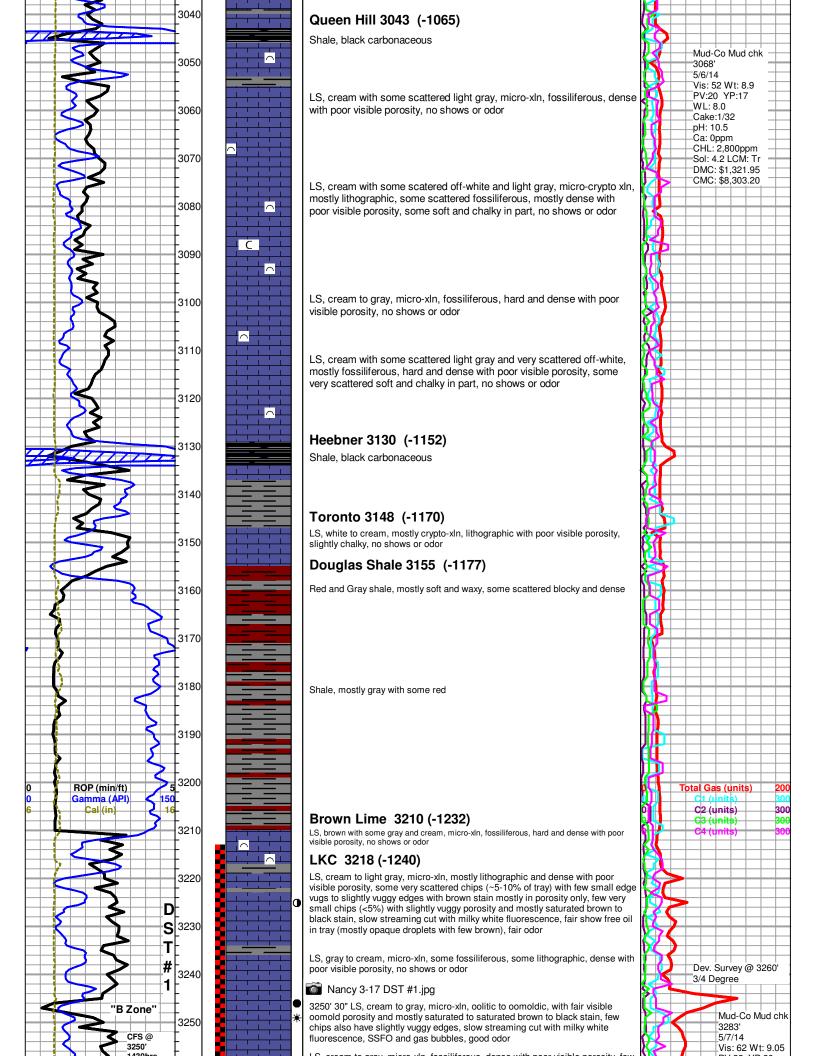
BOB BLO BKS

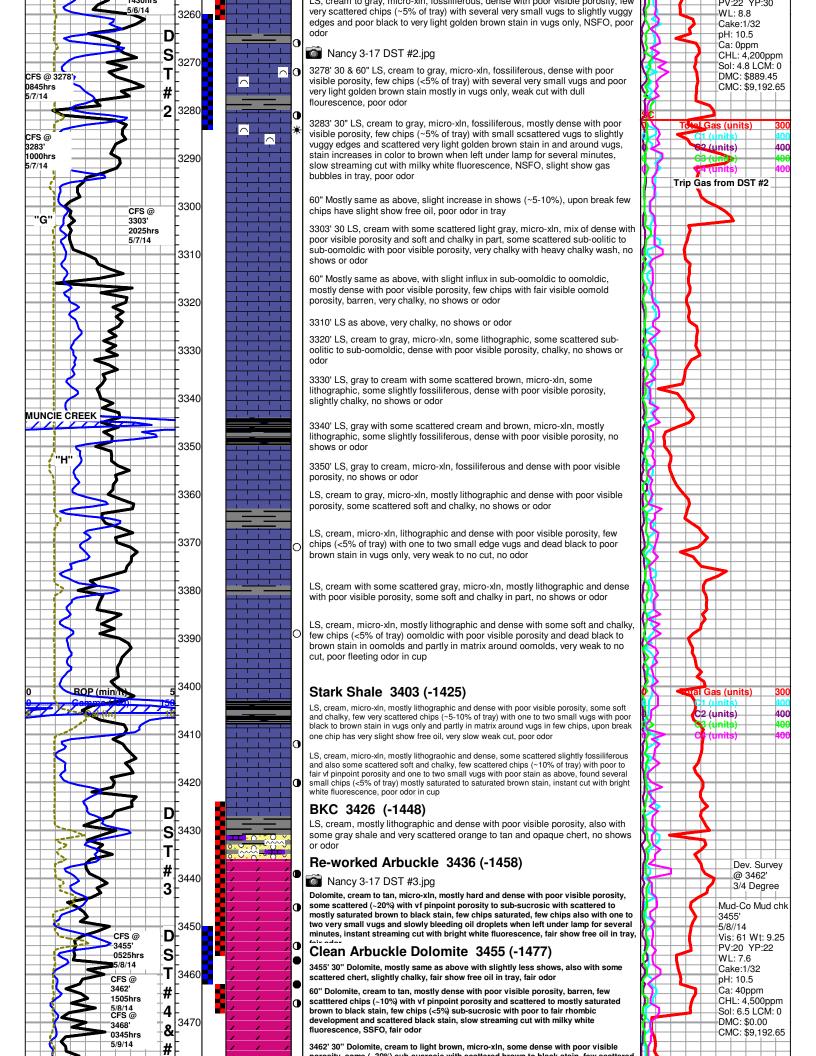


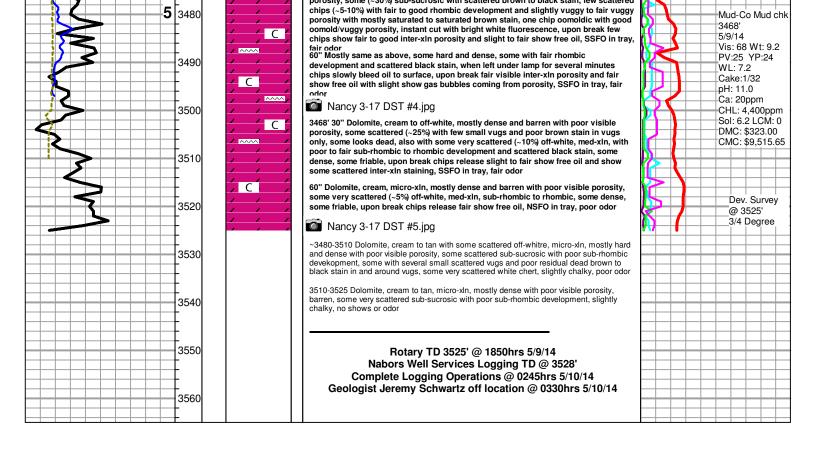












Nancy 3-17 DST #1.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard

Hays, Kansas 67601 ATTN: Jeremy Schwartz 17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 DST#: 1 Test Start: 2014.05.06 @ 21:37:00

GENERAL INFORMATION:

Formation: Lansing/Kansas City

Conventional Bottom Hole (Initial) Deviated: No Whipstock: ft (KB) Test Type:

Time Tool Opened: 23:37:30 Time Test Ended: 04:43:30

3325 Great Bend/ Unit No:

3213.00 ft (KB) To 3260.00 ft (KB) (TVD) Interval:

1978.00 ft (KB) Reference ⊟evations:

Ken Sw inney

Total Depth: 3260.00 ft (KB) (TVD) 7.80 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 13.00 ft

Serial #: 6748 Press@RunDepth:

98.02 psig @

ft (KB)

2014.05.07

Capacity: Last Calib.:

Tester:

5000.00 psig 2014.05.07

1965.00 ft (CF)

Start Date: Start Time:

2014.05.06 21:37:00

End Date: End Time:

04:43:30

Time On Btm: Time Off Btm:

2014.05.06 @ 23:36:00 2014.05.07 @ 03:08:00

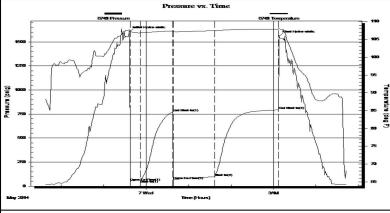
TEST COMMENT: 1ST Open

15 Minutes/Good blow/Blow built to bottom of bucket in 13 minutes

1ST Shut In 45 Minutes/No blow back 2ND Open

60 Minutes/Strong blow/Blow built to bottom of bucket in 30 seconds then slowed considerably

2ND Shut In 90 Minutes/Blow back built to 1/4 then died in 15 minutes



	PRESSURE SUMMARY							
	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1601.66	107.69	Initial Hydro-static				
	2	49.82	107.23	Open To Flow (1)				
	16	62.84	106.83	Shut-In(1)				
	62	770.68	107.35	End Shut-In(1)				
1	63	63.11	107.18	Open To Flow (2)				
	121	98.02	107.44	Shut-In(2)				
Temperature (dea	211	791.85	107.91	End Shut-In(2)				
9	212	1559.65	108.10	Final Hydro-static				

Recovery							
Length (ft)	Description	Volume (bbl)					
120.00	Oily Mud/Oil 20% Mud 80%	0.59					
0.00	180 feet of gas in pipe	0.00					
	<u>.</u>						

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

Superior Testers Enterprises LLC

Ref. No: 18253

Printed: 2014.05.07 @ 04:55:38

Nancy 3-17 DST #2.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard

Suite C

Hays, Kansas 67601 ATTN: Jeremy Schwartz 17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#:2**Test Start: 2014.05.07 @ 13:10:00

GENERAL INFORMATION:

Formation: Lansing/Kansas City

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

 Time Tool Opened: 14:17:30
 Tester:
 Ken Sw inney

 Time Test Ended: 16:59:00
 Unit No:
 3325 Great Bend/32

Interval: 3260.00 ft (KB) To 3283.00 ft (KB) (TVD) Reference Elevations: 1978.00 ft (KB)

Total Depth: 3283.00 ft (KB) (TVD)

7.80 inches Hole Condition: Fair

1965.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6749 Inside

Hole Diameter:

Press@RunDepth: 42.77 psig @ 3279.00 ft (KB) Capacity: 5000.00 psig

 Start Date:
 2014.05.07
 End Date:
 2014.05.07
 Last Calib.:
 2014.05.07

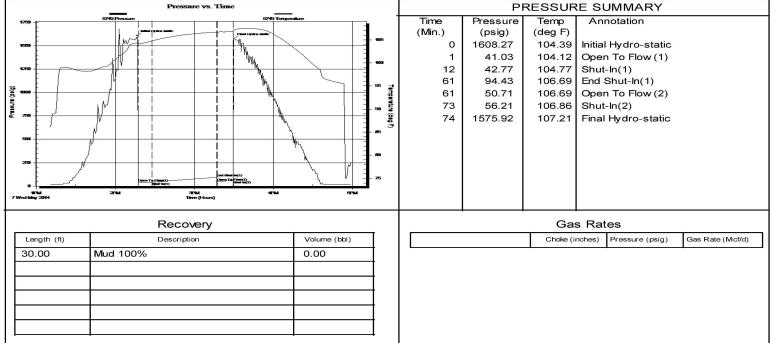
 Start Time:
 13:10:00
 End Time:
 16:59:00
 Time On Btm:
 2014.05.07 @ 14:16:30

 Time Off Btm:
 2014.05.07 @ 15:30:00

TEST COMMENT: 1ST Open 15 Minutes/Weak surface blow throughout/Blow did not build

1ST Shut In 45 Minutes/No blow back

2ND Open 10 Minutes/Dead no blow/Flush tool no help/Pull test



Superior Testers Enterprises LLC

Ref. No: 18254

Printed: 2014.05.07 @ 17:08:47

Nancy 3-17 DST #3.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard

Suite C

Hays, Kansas 67601 ATTN: Jeremy Schwartz 17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 DST#: 3 Test Start: 2014.05.08 @ 08:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) No

Time Tool Opened: 09:16:00 Time Test Ended: 12:00:30

Tester: Ken Sw inney 3325 Great Bend/32 Unit No:

3424.00 ft (KB) To 3455.00 ft (KB) (TVD)

Reference Bevations:

1965.00 ft (CF)

1978.00 ft (KB)

Interval: 3455.00 ft (KB) (TVD) Total Depth:

Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 6749 Inside

Press@RunDepth: 56.70 psig @ Start Date:

3451.00 ft (KB) End Date:

Capacity: Last Calib.:

5000.00 psig 2014.05.08

Start Time:

2014.05.08 08:09:00

End Time:

12:00:30 Time On Btm:

2014.05.08

2014.05.08 @ 09:15:00 2014.05.08 @ 10:30:30

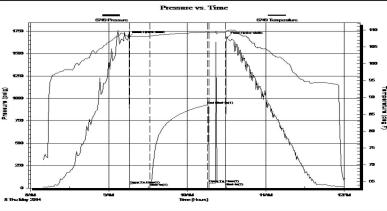
Time Off Btm:

TEST COMMENT: 1ST Open

15 Minutes/Weak blow /Blow built to 3/4 inch

1ST Shut In 45 Minutes/No blow back 2ND Open

10 Minutes/Dead no blow/Flush tool no help/Pull test



	PRESSURE SUMMARY								
-	Time	Pressure	Temp	Annotation	_				
	(Min.)	(psig)	(deg F)						
	0	1687.79	108.44	Initial Hydro-static					
	1	43.33	107.81	Open To Flow (1)					
	17	56.70	108.19	Shut-In(1)					
_	61	929.45	109.37	End Shut-In(1)					
ā	62	56.85	109.18	Open To Flow (2)					
	74	59.42	109.26	Shut-In(2)					
Temperature (deg F)	76	1679.14	109.84	Final Hydro-static					
3									
					_				

Recovery							
Length (ft)	Description	Volume (bbl)					
15.00	Oily Mud/Oil 30% Mud 70%	0.07					
15.00	Mud cut Oil/Mud 5% Oil 95%	0.07					

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

Superior Testers Enterprises LLC

Ref. No: 18255

Printed: 2014.05.08 @ 12:13:14

Nancy 3-17 DST #4.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

17/17S/13W/Barton

2717 Canal Boulevard

Suite C Hays, Kansas 67601 ATTN: Jeremy Schwartz Nancy 3-17

Job Ticket: 18256 DST#: 4

Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 19:27:30 Time Test Ended: 00:37:00

Hole Diameter:

Tester: Ken Sw inney Unit No: 3325 Great Bend/32

3450.00 ft (KB) To 3462.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB)

> 1965.00 ft (CF) KB to GR/CF: 13.00 ft

Interval: 3462.00 ft (KB) (TVD) Total Depth:

Serial #: 6749 Inside

Press@RunDepth: 155.71 psig @ 3458.00 ft (KB) Capacity: 5000.00 psig

Start Date: 2014.05.08 End Date: 2014.05.09 Last Calib .: 2014.05.09 Start Time: 18:10:00 End Time: 00:37:00 Time On Btm: 2014.05.08 @ 19:26:30 Time Off Btm: 2014.05.08 @ 22:56:30

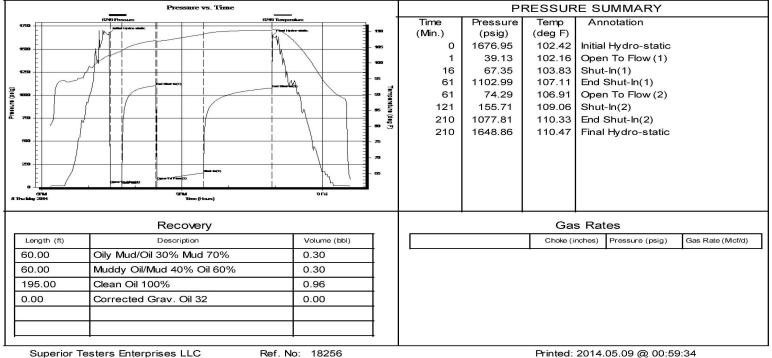
TEST COMMENT: 1ST Open 15 Minutes/Fair blow/Blow built to 6 inches

7.80 inches Hole Condition: Poor

1ST Shut In 45 Minutes/No blow back

60 Minutes/Good blow/Blow built to 11 inches 2ND Open

2ND Shut In 90 Minutes/No blow back



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Nancy 3-17 DST #5.jpg



DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard

Suite C Hays, Kansas 67601 ATTN: Jeremy Schwartz Nancy 3-17

Test Type:

17/17S/13W/Barton

Job Ticket: 18257 **DST#:5**

Test Start: 2014.05.09 @ 06:24:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:50:30 Time Test Ended: 13:08:30 Tester: Ken Swinney Unit No: 3325 Great Bend/32

13:08:30 Unit No: 3325 Great Bend/3

Interval: 3462.00 ft (KB) To 3468.00 ft (KB) (TVD)
Total Depth: 3468.00 ft (KB) (TVD)

Reference Elevations: 1978.00 ft (KB) 1965.00 ft (CF)

Conventional Bottom Hole (Initial)

Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 6749 Inside

Press@RunDepth: 328.99 psig @ 5000.00 psig 3464.00 ft (KB) Capacity: Start Date: 2014.05.09 End Date: 2014.05.09 Last Calib.: 2014.05.09 Start Time: 06:24:00 End Time: 13:08:30 Time On Btm: 2014.05.09 @ 07:49:30

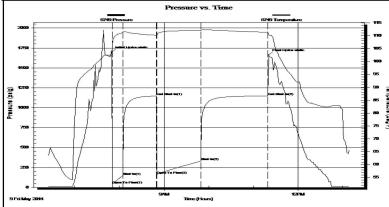
Time Off Btm: 2014.05.09 @ 11:20:30

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 10 minutes

1ST Shut In 45 Minutes/Very weak surface blow back

2ND Open 60 Minutes/Good blow/Blow built to botttom of bucket in 12 minutes

2ND Shut In 90 Minutes/No blow back



	PRESSURE SUMMARY									
	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	1698.18	102.49	Initial Hydro-static						
	1	39.85	106.35	Open To Flow (1)						
	15	146.77	111.18	Shut-In(1)						
-	60	1147.19	110.20	End Shut-In(1)						
쿌	61	159.41	110.11	Open To Flow (2)						
3	120	328.99	112.01	Shut-In(2)						
Temperature (deg F)	210	1148.35	111.34	End Shut-In(2)						
J	211	1663.88	110.50	Final Hydro-static						
	1									

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Slighly Mud cut Water with show of Oil	5.71
0.00	Mud 2% Water 98%	0.00
93.00	Clean Oil 100%	1.30
0.00	Corrected Grav. Oil 31	0.00
0.00	Recov. Resist21 ohms @75 deg	0.00
0.00	Recov. Chlorides 19,000 ppm	0.00

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

Printed: 2014.05.09 @ 13:29:16

Superior Testers Enterprises LLC

Ref. No: 18257