

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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 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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Stewart Producers, Inc.
Well Name	SUTTON 5
Doc ID	1465838

Tops

Name	Top	Datum
Cedar Hills	1065	1267
Anh.	1609	723
Base Anh.	1646	686
Heebner	3688	-1356
LKC	3730	-1398
BKC	4061	-1729
Ft. Scott	4230	-1898
Cherokee Sh.	4255	-1923
Miss.	4347	-2015



TICKET 032048

CHARGE TO: Stewart Producers Inc.
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City, KS WELL/PROJECT NO. 5 LEASE Sutton COUNTY/PARISH Ness STATE KS CITY Ness City DATE 5/14/2019 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR Duke RIG NAME/NO. 2 SHIPPED VIA GT DELIVERED TO Location ORDER NO.
 3. WELL TYPE Oil WELL CATEGORY Production JOB PURPOSE Surface Pipe WELL PERMIT NO.
 4. REFERRAL LOCATION Development WELL LOCATION Ness City, 4-10
30 1/2 - N 1/2 - 10, N.W. 1/4

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.		UNIT		AMOUNT
						UM	UM	UM	UM	
575					MILEAGE Trk #112	10	mi	5	02	50 02
576S					Pump Change - Surface	1	job	925	02	925 02
326					Standard CMT	100	sts	13	50	2160 02
279					Bentone Gel	3	sts	30	02	90 02
278					Calcium Chloride	7	sts	40	02	280 02
290					D-Air	2	gal	42	02	84 02
581					CMT Service Charge	1	sts	1	02	296 02
582					Minimum Drillage Charge	1	ea	250	02	250 02
REMIT PAYMENT TO:						SURVEY		PAGE TOTAL		
SWIFT SERVICES, INC.						OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDISC'D	DISAGREE	
P.O. BOX 466						WE UNDERSTOOD AND MET YOUR NEEDS?				
NESS CITY, KS 67560						OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
785-798-2300						WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TOTAL						ARE YOU SATISFIED WITH OUR SERVICE?				
4304 91						<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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.

DATE SIGNED 5/14/2019 TIME SIGNED 10:15 A.M. P.M.

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

SWIFT OPERATOR Anderson Tucker APPROVAL

Thank You!

CUSTOMER

Stewart Production

WELL NO.

5

LEASE

Sutton

JOB TYPE

Surface Pipe

TICKET NO.

0232048

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							On Location 8 5/8" 231b/ft RTD: 252 TP: 252
	2145							Start 8 5/8" 231b/ft Casing in Well
	2245							Break Circulation
	2255	3 1/2	5		✓		100	Pump 5 bbl H2O Spacer
	2300	3 1/2	40		✓		100	Mix 160 sks of Standard 2% gel 3% CC @ 14.7ppg
	1115	3 1/2	0		✓		100	100 Start Displacement
								Circulate CMT to Surface
	1120	0	15 1/2		✓		250	KO Pump + Shut in
	1120							Jet Cellar *CMT found *
	1125							Wash-up Trk #112
	1145							Job Complete
								160 sks of Standard 2% gel 3% CC CMT Used
								Thank You
								Gideon, Preston, Isaac



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

8-185-24w

FIELD SERVICE TICKET
1718 17858 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>3/23/2019</u> DISTRICT <u>Pratt, KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>Stewart Well Service</u>		LEASE <u>Sutton</u>				WELL NO. <u>5</u>			
ADDRESS		COUNTY <u>Ness</u>		STATE <u>Ks</u>					
CITY STATE		SERVICE CREW <u>Drcin, Brett, Digg, W9de</u>							
AUTHORIZED BY		JOB TYPE: <u>242 5/2 Longstring</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19843</u>	<u>6 1/2</u>						<u>5/22</u>	<u>PM</u>	<u>2:30</u>
<u>21010</u>	<u>1/2</u>						<u>5/22</u>	<u>PM</u>	<u>6:15</u>
<u>19862</u>	<u>1/2</u>						<u>5/22</u>	<u>PM</u>	<u>7:30</u>
							<u>5/23</u>	<u>PM</u>	<u>2:00</u>
							<u>5/23</u>	<u>PM</u>	<u>3:00</u>
						MILES FROM STATION TO WELL	<u>126</u>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Ruby Pope
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
<u>BC118</u>	<u>A-con Blend</u>	<u>SK</u>	<u>300</u>		<u>18000 00</u>	
<u>CC102</u>	<u>Cellofibre</u>	<u>Lb</u>	<u>76</u>		<u>304 00</u>	
<u>CC109</u>	<u>Calcium Chloride</u>	<u>Lb</u>	<u>752</u>		<u>752 00</u>	
<u>CC151</u>	<u>mud Flush</u>	<u>Gal</u>	<u>500</u>		<u>750 00</u>	
<u>ME101</u>	<u>Light Vehicle Mileage</u>	<u>m.</u>	<u>100</u>		<u>500 00</u>	
<u>ME102</u>	<u>Heavy Equipment Mileage</u>	<u>m.</u>	<u>300</u>		<u>2,400 00</u>	
<u>CF504</u>	<u>Plug Container Utilization Charge</u>	<u>Fs</u>	<u>1</u>		<u>250 00</u>	
<u>CC2</u>	<u>Depn Charge; 1,001-2,000'</u>	<u>HR</u>	<u>1</u>		<u>1,500 00</u>	
<u>CE240</u>	<u>Blending & mixing Service Charge</u>	<u>SIC</u>	<u>300</u>		<u>420 00</u>	
<u>CF1101</u>	<u>Cementing Shoe BSSick Type, 5 1/2" (Blue)</u>	<u>Fs</u>	<u>1</u>		<u>1,700 00</u>	
<u>CF607</u>	<u>Latch Down Plug & BSSick, 5 1/2" (Blue)</u>	<u>Fs</u>	<u>1</u>		<u>400 00</u>	
<u>CF1901</u>	<u>3 1/2" BSSick (Blue)</u>	<u>Fs</u>	<u>6</u>		<u>1,740 00</u>	
<u>CF1651</u>	<u>Turbolizers 5 1/2" (Blue)</u>	<u>Fs</u>	<u>6</u>		<u>660 00</u>	
<u>BE143</u>	<u>Service Supervisor Charge</u>	<u>Fs</u>	<u>1</u>		<u>75 00</u>	
<u>BE144</u>	<u>Driver Charge</u>	<u>Fs</u>	<u>3</u>		<u>105 00</u>	
					SUB TOTAL	<u>24,556 00</u>
				SERVICE & EQUIPMENT	%TAX ON \$	
				MATERIALS	%TAX ON \$	
					Discard TOTAL	<u>11,785 44</u>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discard TOTAL		<u>11,785 44</u>

SERVICE REPRESENTATIVE <u>Darin Kuentz</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Ruby Pope</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer Stevens Well Service	Lease No.	Date 5/22/2019
Lease Sutton	Well # 5	
Field Order # 17858	Station P9521101	Casing
Type Job 2421 Plug Back	Depth	County Ness
	Formation	State KS
		Legal Description 8-185-24W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth 4375	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 62	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4143	Packer Depth	From	To	Flush W940, mud	Gas Volume		Total Load	

Customer Representative: R. C. Popp Station Manager: Justin Wickman Treater: D. S. Franke

Service Units	92911	78982	19843	70939	21010				
Driver Names	D. S. Franke	B. J. B. B.	B. J. B. B.	D. S. Franke	D. S. Franke				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:15 pm					On location / Safety meeting
					50 SK 60/40 P2 4% Gel
					13,78 PPS, 1,43 Vol. 12, 6.92 W940
					4375'
7:25 pm	200		8	5	Pump 8 bbls W940
	200		13	5	mix 50 SK Cement
	200		3	5	Displace 3 bbls W940
	200		52	5	52 bbls mud
					Pull Drill Pipe

Customer Stewart Well Service	Lease No.	Date 5/23/2019	
Lease Subion	Well # 5		
Field Order # 17858	Station P1941, 1K5	Casing 5 1/2	Depth 1634
Type Job 2 4 1/2 5 1/2 Long Slines	Formation TD-4410	County Mass	State KS
Legal Description 8-185-24W			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 1634	Depth	From	To	Pre Pad		Max		5 Min.
Volume 38.8	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 1592	Packer Depth	From	To	Flush W910r		Gas Volume		Total Load

Customer Representative Rick Popp	Station Manager Justin Weseman	Treater Darin Franklin
Service Units 92911 78982 19843 70955 21010		
Driver Names Darin Brett Brett D.92 P.52 W9ae W9ae		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					50 SIC 60/40 P02 + 4% Gel
					13.78 pps, 1.43 vella, 6.92 w910r
					200 SIC D-con Blend Cement + 3%
					Calcium Chloride, 1/4 H Cellulose
					11.4 pps, 2.95 vella, 18.10 W910r
					100 SIC D-con Blend Cement + 2% CC
					Calcium Chloride, 1/4 H Cellulose
					13.8 pps, 1.64 vella, 8.39 W910r
1:00pm	200		5	5	Pump 5 bbls w910r
	200		12	5	12 bbls Flush
	200		5	5	5 bbls water
	200		105	5	mix 200 sic 1052 cement
	200		29	5	mix 100 sic 19.1 cement
					Shut down
					Wash Pump & Lines & Release Plug
	200		0	5	Start displacement
	400		30	3	Slow P sic
2:00pm	1500		38	3	Bump Plug
					Flow - Held Circulation 50 SK
	0		13	3	Plug Rgt & make holes
					Job Complete/Dsin & crew



Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
API #: 1513526066

Operation:
Uploading recovery & pressures

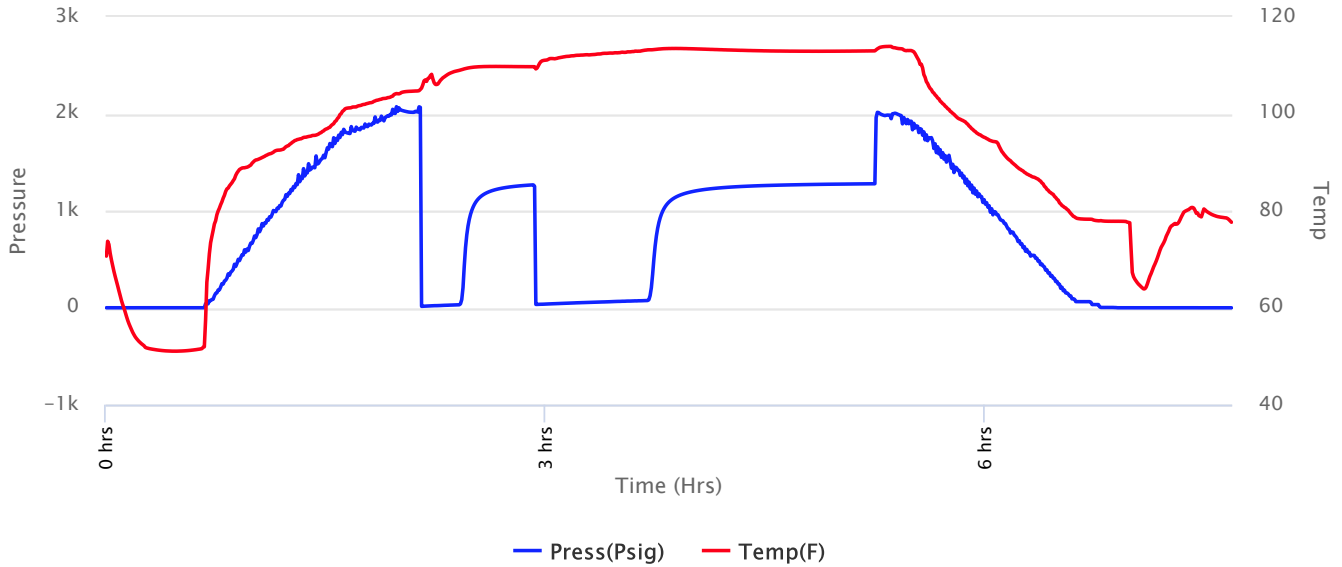
DATE
May
21
2019

DST #1 **Formation: Mississippian** **Test Interval: 4274 - 4353'** **Total Depth: 4353'**
Time On: 06:55 05/21 Time Off: 14:26 05/21
Time On Bottom: 09:02 05/21 Time Off Bottom: 12:02 05/21

Electronic Volume Estimate:
167'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 15	Minutes: 30	Minutes: 45	Minutes: 90
Current Reading: 3.8" at 15 min	Current Reading: 1.4" at 30 min	Current Reading: 9.6" at 45 min	Current Reading: 0" at 90 min
Max Reading: 3.8"	Max Reading: 1.4"	Max Reading: 9.6"	Max Reading: 0"

Inside Recorder





Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 2
 Elevation: 2325 EGL
 Field Name: Dex South
 Pool: Pool Ext
 Job Number: 348
 API #: 1513526066

Operation:
 Uploading recovery & pressures

DATE
 May
21
 2019

DST #1 **Formation: Mississippian** **Test Interval: 4274 - 4353'** **Total Depth: 4353'**
 Time On: 06:55 05/21 Time Off: 14:26 05/21
 Time On Bottom: 09:02 05/21 Time Off Bottom: 12:02 05/21

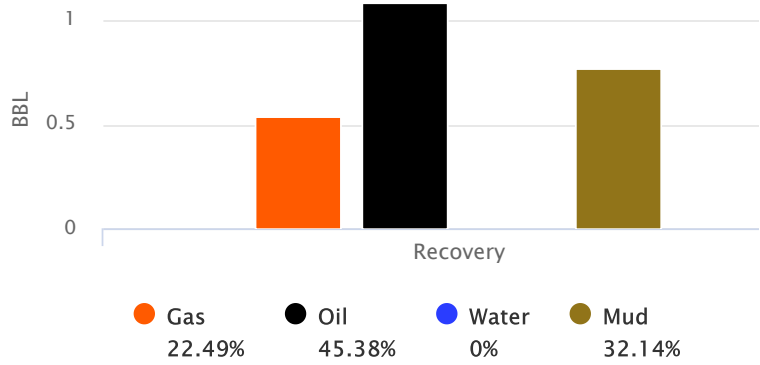
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
30	0.387	G	100	0	0	0
10	0.129	O	0	100	0	0
145	1.8705	SLGCHMCO	8	51	0	41

Total Recovered: 185 ft
 Total Barrels Recovered: 2.3865

Reversed Out
 NO

Initial Hydrostatic Pressure	2018	PSI
Initial Flow	14 to 30	PSI
Initial Closed in Pressure	1267	PSI
Final Flow Pressure	34 to 75	PSI
Final Closed in Pressure	1279	PSI
Final Hydrostatic Pressure	2016	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 3.01297



**Company: Stewart Producers,
Inc**

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
API #: 1513526066

Operation:
Uploading recovery &
pressures

DATE
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21
2019

DST #1	Formation: Mississippian	Test Interval: 4274 - 4353'	Total Depth: 4353'
	Time On: 06:55 05/21	Time Off: 14:26 05/21	
	Time On Bottom: 09:02 05/21	Time Off Bottom: 12:02 05/21	

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 3 1/2"
1st Close: 1" BB
2nd Open: Surface blow building to 9 1/4"
2nd Close: No BB

REMARKS:

Tool Sample: 6% Gas 43% Oil 0% Water 51% Mud
Gravity: 35.4 @ 60 °F



**Company: Stewart Producers,
Inc**

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
API #: 1513526066

Operation:
Uploading recovery &
pressures

DATE
May
21
2019

DST #1 **Formation:** **Test Interval: 4274 -** **Total Depth: 4353'**
Mississippian **4353'**
Time On: 06:55 05/21 Time Off: 14:26 05/21
Time On Bottom: 09:02 05/21 Time Off Bottom: 12:02 05/21

Down Hole Makeup

Heads Up: 15.85 FT	Packer 1: 4269.08 FT
Drill Pipe: 4257.36 FT <i>ID-3.640</i>	Packer 2: 4274.08 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4258.5 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4343 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 78.92	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.92 FT <i>ID-3.640</i>	
Change Over: 1 FT	
Perforations: (below): 11 FT <i>4 1/2-FH</i>	



**Company: Stewart Producers,
Inc**

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
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Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
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DST #1 **Formation:**
Mississippian **Test Interval: 4274 -**
4353' **Total Depth: 4353'**
Time On: 06:55 05/21 Time Off: 14:26 05/21
Time On Bottom: 09:02 05/21 Time Off Bottom: 12:02 05/21

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 42 **Filtrate:** 7.6 **Chlorides:** 4,000 ppm



Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
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2019

DST #1 **Formation: Mississippian** **Test Interval: 4274 - 4353'** **Total Depth: 4353'**
Time On: 06:55 05/21 Time Off: 14:26 05/21
Time On Bottom: 09:02 05/21 Time Off Bottom: 12:02 05/21

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
API #: 1513526066

Operation:
Uploading recovery & pressures

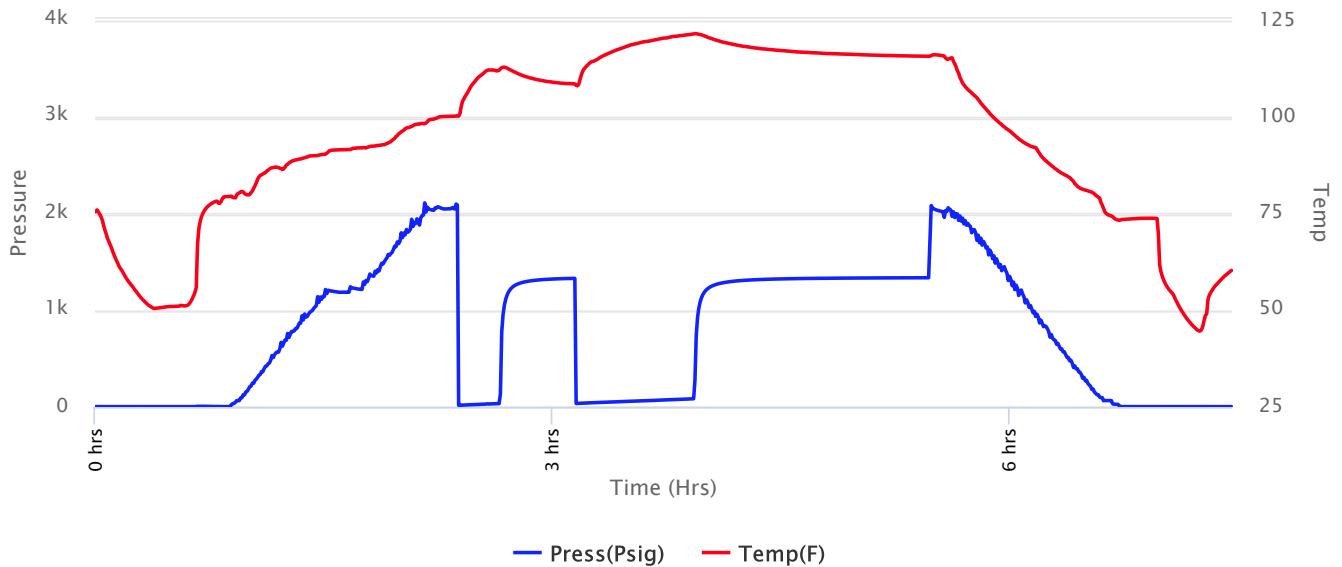
DATE
May
21
2019

DST #2 **Formation: Mississippian** **Test Interval: 4352 - 4358'** **Total Depth: 4358'**
Time On: 21:33 05/21 Time Off: 04:49 05/22
Time On Bottom: 23:52 05/21 Time Off Bottom: 02:52 05/22

Electronic Volume Estimate:
129'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 15	Minutes: 30	Minutes: 45	Minutes: 90
Current Reading: 3.4" at 15 min	Current Reading: 0" at 30 min	Current Reading: 7.7" at 45 min	Current Reading: 0" at 90 min
Max Reading: 3.4"	Max Reading: 0"	Max Reading: 7.7"	Max Reading: 0"

Inside Recorder





Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
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Operation:
Uploading recovery & pressures

DATE
May
21
2019

DST #2 **Formation: Mississippian** **Test Interval: 4352 - 4358'** **Total Depth: 4358'**
Time On: 21:33 05/21 Time Off: 04:49 05/22
Time On Bottom: 23:52 05/21 Time Off Bottom: 02:52 05/22

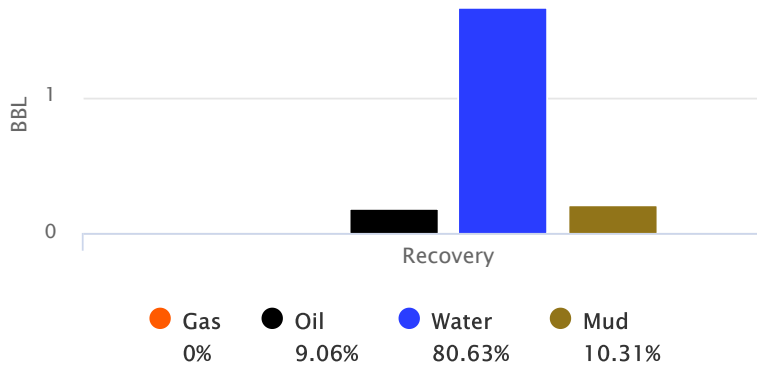
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.129	O	0	100	0	0
150	1.935	SLOCSLMCW	0	3	86	11

Total Recovered: 160 ft
Total Barrels Recovered: 2.064

Reversed Out
NO

Initial Hydrostatic Pressure	2040	PSI
Initial Flow	14 to 32	PSI
Initial Closed in Pressure	1324	PSI
Final Flow Pressure	33 to 82	PSI
Final Closed in Pressure	1330	PSI
Final Hydrostatic Pressure	2025	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Stewart Producers,
Inc**

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
API #: 1513526066

Operation:
Uploading recovery &
pressures

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DST #2	Formation: Mississippian	Test Interval: 4352 - 4358'	Total Depth: 4358'
	Time On: 21:33 05/21	Time Off: 04:49 05/22	
	Time On Bottom: 23:52 05/21	Time Off Bottom: 02:52 05/22	

BUCKET MEASUREMENT:

1st Open: Surface blow building to 3"
1st Close: No BB
2nd Open: Surface blow building to 7 1/4"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 31% Oil 51% Water 18% Mud
Gravity: 35.6 @ 60 °F
Ph: 7.0
Measured RW: .28 @ 53 degrees °F
RW at Formation Temp: 0.13 @ 122 °F
Chlorides: 27,000 ppm



Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
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Operation:
Uploading recovery & pressures

DATE
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DST #2 **Formation: Mississippian** **Test Interval: 4352 - 4358'** **Total Depth: 4358'**
Time On: 21:33 05/21 Time Off: 04:49 05/22
Time On Bottom: 23:52 05/21 Time Off Bottom: 02:52 05/22

Down Hole Makeup

Heads Up: 33.47 FT	Packer 1: 4347 FT
Drill Pipe: 4352.9 FT <i>ID-3.640</i>	Packer 2: 4352 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4336.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4354 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 6	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3.640</i>	
Change Over: 0 FT	
Perforations: (below): 5 FT <i>4 1/2-FH</i>	



**Company: Stewart Producers,
Inc**

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
Job Number: 348
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Operation:
Uploading recovery &
pressures

DATE
May
21
2019

DST #2 **Formation:** **Test Interval: 4352 -** **Total Depth: 4358'**
Mississippian **4358'**
Time On: 21:33 05/21 Time Off: 04:49 05/22
Time On Bottom: 23:52 05/21 Time Off Bottom: 02:52 05/22

Mud Properties

Mud Type: Chemical **Weight:** 9.25 **Viscosity:** 50 **Filtrate:** 6.4 **Chlorides:** 3,700 ppm



Company: Stewart Producers, Inc

Lease: Sutton #5

SEC: 8 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 2
Elevation: 2325 EGL
Field Name: Dex South
Pool: Pool Ext
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Operation:
Uploading recovery & pressures

DATE
May
21
2019

DST #2 **Formation: Mississippian** **Test Interval: 4352 - 4358'** **Total Depth: 4358'**
Time On: 21:33 05/21 Time Off: 04:49 05/22
Time On Bottom: 23:52 05/21 Time Off Bottom: 02:52 05/22

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------

GEOLOGIC REPORT

DAVID J. GOLDAK

WICHITA, KANSAS
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Sutton #5
API: 15-135-26066-0000
Location: Section 8 - T18S - R24W
License Number: _____
Spud Date: 05 / 14 / 2019
Surface Coordinates: 1925' FSL and 2380' FEL
NW - SW - NW - SE
Region: Ness Co., KS
Drilling Completed: 05 / 22 / 2019
Bottom Hole Coordinates: _____
Ground Elevation (ft): 2324' K.B. Elevation (ft): 2332'
Logged Interval (ft): 3500' To: 4410' Total Depth (ft): 4410'
Formation: Mississippian
Type of Drilling Fluid: Chemical - Mud Co

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Stewart Producers, Inc.
Address: PO Box 546
Mt Vernon, IL 62864

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 12427 W Ridgepoint Cir
Wichita, Kansas 67235

General Info

CONTRACTOR: Duke Drilling, Rig #2

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-HAIPG	15-15-15	252	252	3.25
2	7-7/8	JZ-HA23	15-15-15	4410	4158	108.75

SURVEYS: 252'-0.75, 1493'-0.25, 2741'-0.75, 4353'-0.75, 4410'-1.0

GENERAL DRILLING & PUMP INFORMATION:

Drilling with 16 collars (6.25"x2.25"): 482.31'
Drilling with 36,000-40,000 lbs on bit and 70-75 RPM.
Pumping 60 S/M; 8.28 B/M; and 750-850 psi at the Standpipe.

Daily Status

05/14/19 - Spud at 3:00 PM; Set 8-5/8" Csg at 252'
 05/15/19 - 252' WOC; DP @ 7:15 AM
 05/16/19 - 1,650' Drilling
 05/17/19 - 2,650' Drilling
 05/18/19 - 3,255' Drilling; Displace @ 3,493'
 05/19/19 - 3,800' Drilling
 05/20/19 - 4,185' Drilling; Wiper trip @ 4,215'
 05/21/19 - 4,353' Prep for DST #1; DST #2 @ 4,358'
 05/22/19 - 4,358' CTCH after DST #2; TD @ 4,410'; Log well

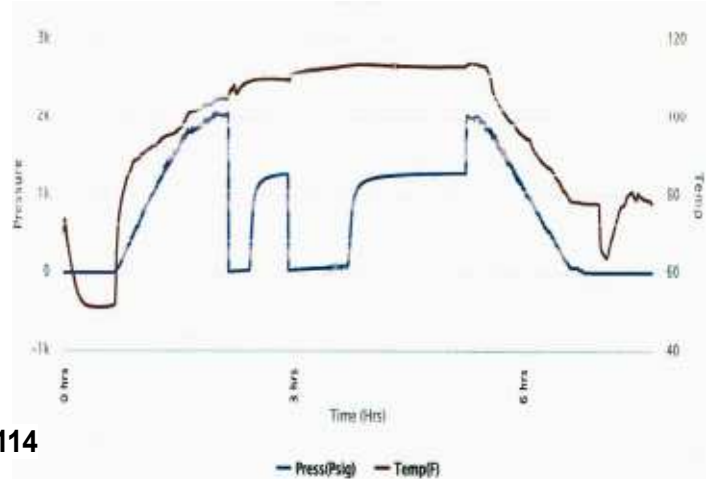
	Log Tops	Sample Tops
Anhydrite	1609 (+723)	
Base/Anhy	1646 (+686)	1652 (+680)
Heebner	3688 (-1356)	3691 (-1359)
Lansing	3730 (-1398)	3733 (-1401)
Stark Sh	4009 (-1677)	4012 (-1680)
BKC	4061 (-1729)	4066 (-1734)
Pawnee	4150 (-1818)	4154 (-1822)
Ft Scott	4230 (-1898)	4232 (-1900)
Cherokee	4255 (-1923)	4257 (-1925)
Mississippian	4347 (-2015)	4350 (-2018)
Total Depth	4408 (-2076)	4410 (-2078)

DST #1: 4,274' - 4,353' (Mississippian)
15" - 30" - 45" - 90"

IF: Fair blow building to 3.5 inches
ISI: Return blow building to 1 inch
FF: Fair blow building to 9.25 inches
FSI: No return blow

RECOVERY: 30' GIP & 155' Total Fluid, consisting of:
 10' CO (100% O); Gravity: 35 API
 145' SGHMCO (8% G, 51% O & 41% M)

SIP: 1267-1279; FP: 14-30, 34-75; HP: 2018-2016; BHT: 114

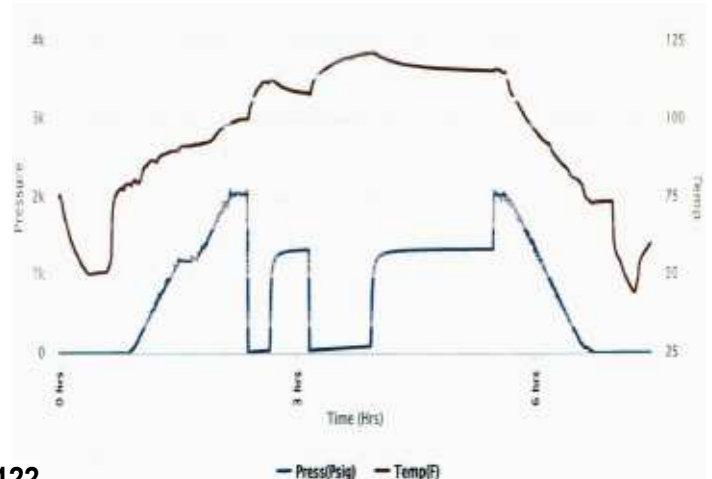


DST #2: 4,352' - 4,358' (Mississippian)
15" - 30" - 45" - 90"

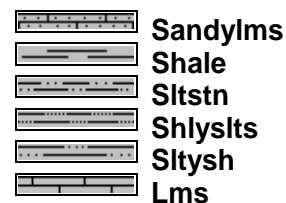
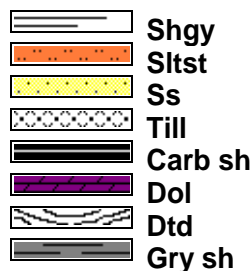
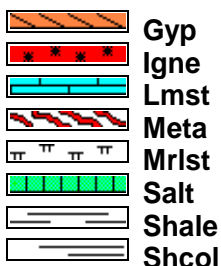
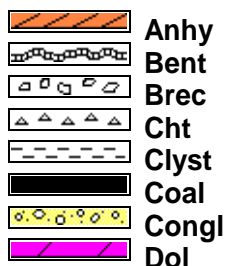
IF: Fair blow building to 3 inches
ISI: No return blow
FF: Fair blow building to 7.25 inches
FSI: No return blow

RECOVERY: 160' Total Fluid, consisting of:
 10' CO (100% O); Gravity: 36 API
 150' SOMCW (3% O, 86% W & 11% M)
 Chlorides recovery: 27,000 ppm

SIP: 1324-1330; FP: 14-32, 33-82; HP: 2040-2025; BHT: 122



ROCK TYPES

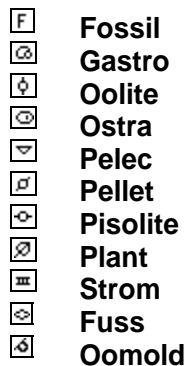
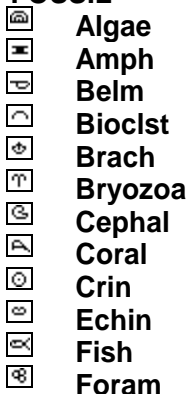


ACCESSORIES

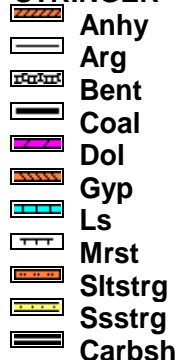
MINERAL



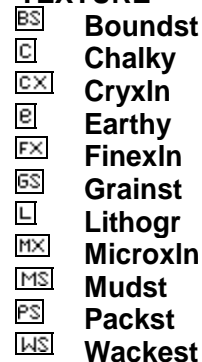
FOSSIL



STRINGER

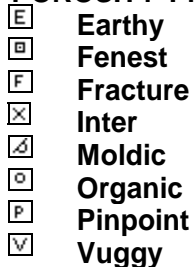


TEXTURE



OTHER SYMBOLS

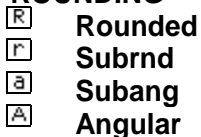
POROSITY TYPE



SORTING



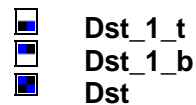
ROUNDING



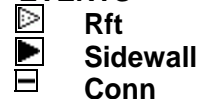
OIL SHOWS


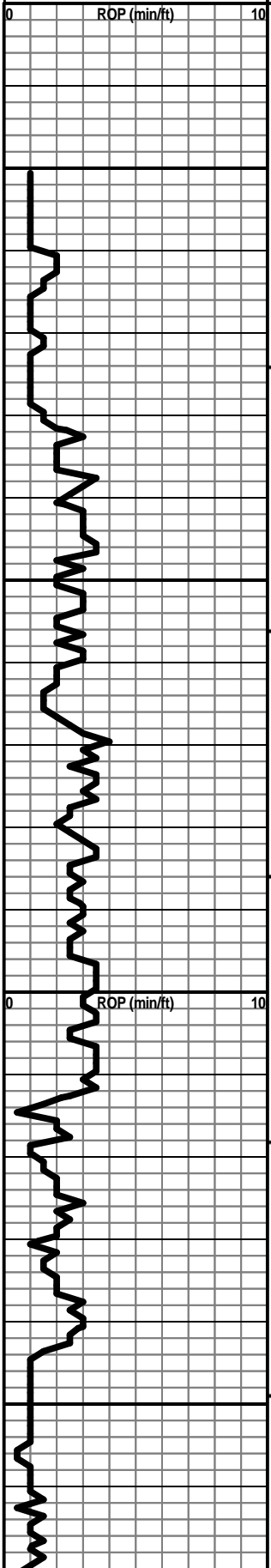


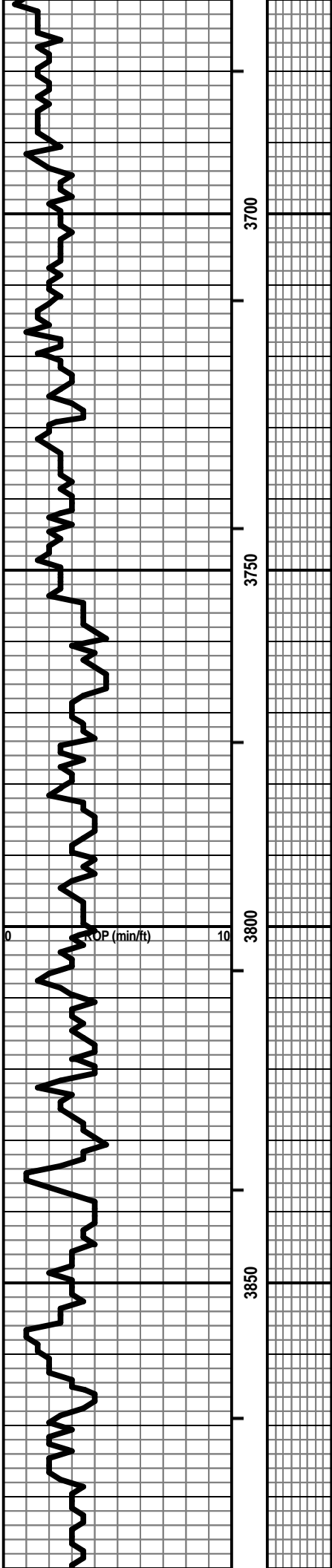
INTERVALS



EVENTS



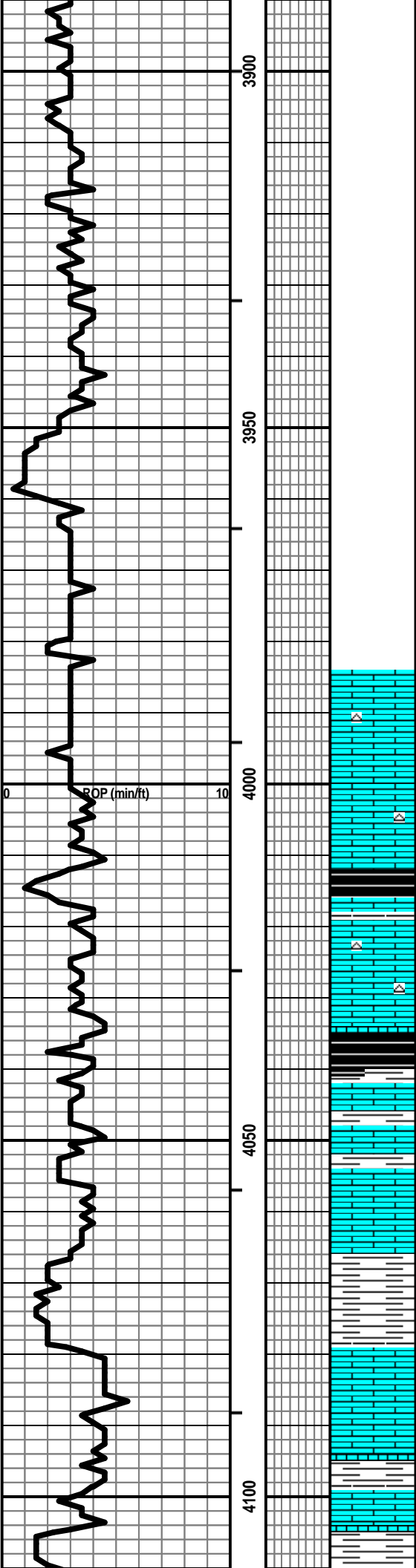
<p>Curve Track 1</p> <p>ROP (min/ft) </p>	MD	Porosity	Lithology	Geological Descriptions	Remarks
	<p>0</p> <p>10</p> <p>3500</p> <p>3550</p> <p>3600</p> <p>3650</p>	<p>24%</p> <p>18%</p> <p>12%</p> <p>6%</p>	<p>Oil Shows</p>		<p>DRLG WITH BIT #2: 7-7/8" CONV NEW JZ-HA23; JETS: 15-15-15</p> <p>DISPLACE MUD SYSTEM @ 3,493'</p> <p>Vis: 61, Wt: 8.8, LCM: 1#</p>



HEEBNER 3691 (-1359)

LANSING 3733 (-1401)

Vis: 47, Wt: 9.0, YP: 15,
GelS: 10/22, pH: 11.0, WL: 7.2,
Chl: 5,000, Sol: 4.8, LCM: 1.5#



LS - CRM / TAN / SCAT BRN, F / VF XLN, OOL + FOSS IN PT, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / CRM

Vis: 51, Wt: 9.1, LCM: 1#

LS - TAN / GY / SCAT CRM, PRED F XLN, SL FOSS, SCAT OOL, PRED DNS, NS W/ SCAT CHT

SH - BLK, CARB

STARK SHALE 4012 (-1680)

LS - CRM / TAN / SCAT BRN, SCAT MOT, F / VF XLN, OOL IN PT, SUBCHKY IN PT, PRED DNS, NS W/ CHT - LT GY

SH - DK GY / BLK, CARB

Vis: 49, Wt: 9.0, LCM: 1#

LS - TAN / BRN, F XLN, FOSS, PRED DNS, NS W/ SH - GY / BLK

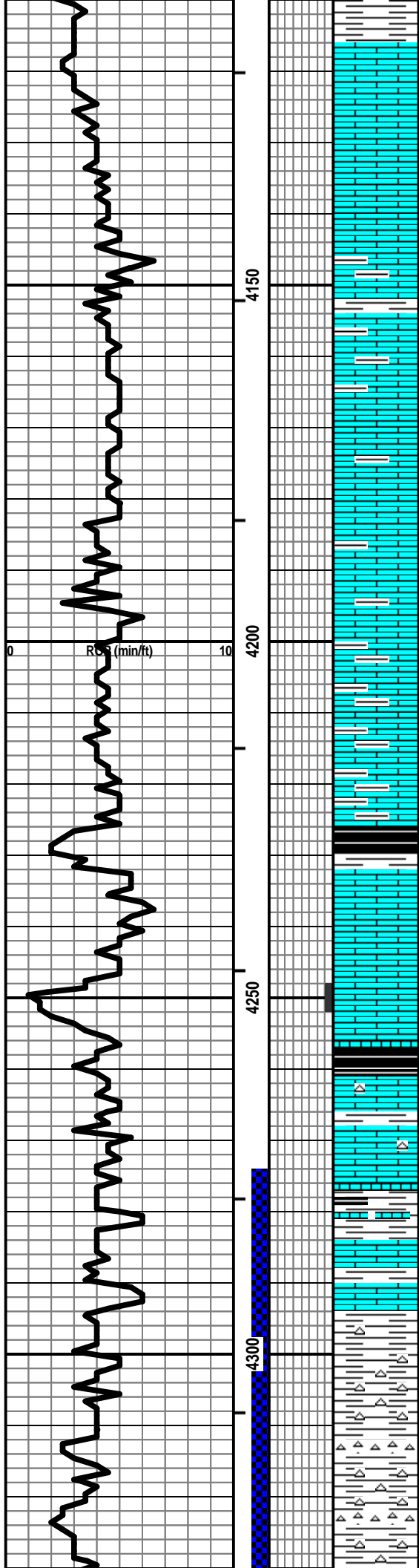
LS - CRM / TAN, F / VF XLN, SCAT REXLN CALC, SCAT OOL + FOSS, TR P INTXLN POR, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / CRM

BASE OF KC 4066 (1734)

SH - GY / GRN / SCAT RED

LS - TAN / CRM / GY, F / VF XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, SCAT CRYPTO XLN, SCAT REXLN CALC, PRED DNS, NS W/ ABNT SH - GY / DK GY



LS - CRM / TAN / LT GY, VF / F / CRYPTO XLN, SUBCHKY IN PT, PRED DNS, NS

LS - CRM / GY / TAN, MOT IN PT, VF / F XLN, SCAT CRYPTO XLN, SUBCHKY IN PT, PRED DNS, NS W/ SH - PRED GY

Vis: 47, Wt: 9.0, LCM: 1#

LS - TAN / BRN, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ SH - GY / SCAT GRN

LS - TAN / BRN, VF / F XLN, TR CHKY, PRED DNS, NS W/ SCAT SH

LS - ASABOVE W/ ABNT SH - GY / DK GY

HEAVY RAINFALL AFFECTING DRILLING FLUIDS

Vis: 42, Wt: 9.2, YP: 19,
GelS: 10/20, pH: 9.5, WL: 7.6,
Ch: 4,000, Sol: 6.2, LCM: 1.5#

LS - ASABOVE W/ ABNT SH - GY / DK GY

WIPER TRIP 30 STANDS @ 4,215'

SH - DK GY / BLK, CARB IN PT

FT SCOTT 4232 (-1900)

LS - CRM / TAN, PRED VF / F XLN, SL OOL + FOSS, SCAT P VUG POR, TR P / PRED NO INTXLN POR, SCAT SSFO + GB, FT ODOR, SCAT SPTY LT STN, G FLUOR, F / G CUT

Vis: 45, Wt: 9.2, LCM: 1#

LS - CRM / TAN, PRED VF / F XLN, SL OOL + FOSS, TR P / F VUG POR, TR P FOSSMOLD POR, TR P / NO INTXLN POR, SCAT SSFO + GB, FT ODOR, SCAT SPTY LT STN, G FLUOR, F / G CUT

CHEROKEE SH 4257 (-1925)

DST #1: 4,274' - 4,353' (Mississippian)
15" - 30" - 45" - 90"

IF: Fair blow building to 3.5 in.
ISI: Return blow building to 1 in.
FF: Fair blow building to 9.25 in.
FSI: No return blow

LS - TAN / CRM, MOT IN PT, F / VF XLN, SCAT REXLN CALC, OOL + FOSS IN PT, PRED DNS, NS W/ CHT - LT GY / WHT

RECOVERY: 30' GIP & 155' Total Fluid:
10' CO (100% O); Gravity: 35 API
145' SGHMCO (8% G, 51% O & 41% M)

LS - ASABOVE W/ SH - GY / SCAT BLK

SIP: 1267-1279 HP: 2018-2016
FP: 14-30, 34-75 BHT: 114

LS - TAN / CRM, F / VF XLN, FOSS IN PT, SCAT OOL, PRED DNS, NS W/ SH - GY / MAR / GRN

DST #2: 4,352' - 4,358' (Mississippian)
15" - 30" - 45" - 90"

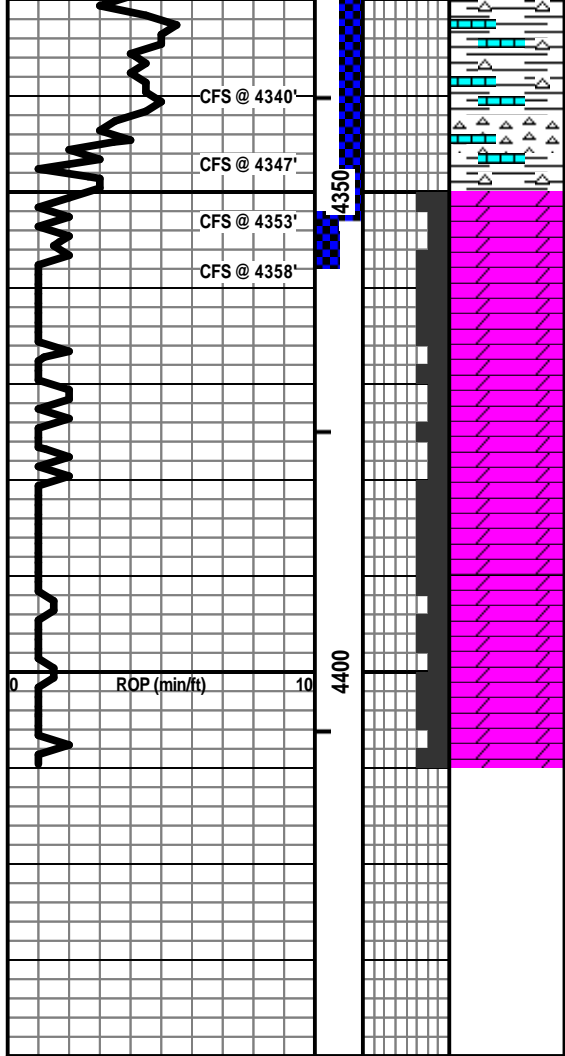
ABNT SH - VARICOL W/ MOD AMT CHT - VARICOL, VIT, NS

IF: Fair blow building to 3 in.
ISI: No return blow
FF: Fair blow building to 7.25 in.
FSI: No return blow

ABNT SH - VARICOL W/ MOD AMT CHT - VARICOL, TR P WEATH POR, PRED VIT, VSSFO, NO ODOR

RECOVERY: 160' Total Fluid:
10' CO (100% O); Gravity: 36 API

ABNT CHT - VARICOL, P / SCAT F WEATH POR, SCAT SL / TR F SFO + ASPH, NO ODOR W/ ABNT SH - VARICOL W/ SCAT LS - TAN / GY, F / VF XLN, PRED DNS, NS



4340' CFS: CONGL - ASABOVE, PRED NS

4347' CFS: CHT - VARICOL, SCAT P / F WEATH POR, SSFO, FT ODOR W/LS - TAN / SCAT GY, F / VF XLN, DOLO IN PT, DNS, NS W/MOD AMT SH - AA

4353' CFS: AA W/DOLO - CRM / LT GY, MOT IN PT, F / TR M XLN, SCAT VF XLN, F / G VUG POR, F INTXLN POR, F / G SFO, SSGB, G ODOR, SPTY / SAT STN, G FLUOR + CUT

4358' CFS: DOLO - CRM / LT GY, MOT IN PT, F / M XLN, SCAT VF XLN, SL FOSS, P / G VUG POR, F INTXLN POR, PRED F / G SFO, SSGB, TR SSFO / BARR, F ODOR, PRED SPTY / SAT STN, G FLUOR + CUT

4358'-4375': DOLO - CRM / LT GY, MOT IN PT, PRED F / M XLN, SL FOSS, F / G VUG + INTXLN POR, SL / F SFO, SSGB, SCAT BARR POR, F ODOR, PRED SPTY STN W/ SCAT CHT - LT GY / WHT

DOLO - CRM / LT GY, MOT IN PT, PRED F / M XLN, SL FOSS, F / G VUG + INTXLN POR, SSFO, ABNT BARR POR, FT ODOR, SPTY STN IN PT W/ SCAT CHT - LT GY / WHT

DOLO - CRM / LT GY, MOT IN PT, PRED F / M XLN, SL FOSS, F / G VUG + INTXLN POR, SCAT SSFO, PRED NS, V FT ODOR, SCAT SPTY STN W/ SCAT CHT - LT GY / WHT

DOLO - CRM / LT GY, MOT IN PT, PRED F / M XLN, SL FOSS, F / G VUG + INTXLN POR, SCAT SSFO, PRED NS, NO ODOR, SCAT SPTY STN W/ SCAT CHT - LT GY / WHT

10 CO (100% O), Gravity: 56 API
 150' SOMCW (3% O, 86% W & 11% M)
 Chlorides recovery: 27,000 ppm

SIP: 1324-1330 HP: 2040-2025
 FP: 14-32, 33-82 BHT: 122

MISSISSIPPIAN 4350 (-2018)

Vis: 50, Wt: 9.25, YP: 16,
 GelS: 16/32, pH: 9.5, WL: 6.4,
 Chl: 3,700, Sol: 6.9, LCM: 2#

PIPE STRAP @ 4,353': SHORT 2.41'

FOUND 1 COLLAR CRACKED NEAR TOOL JOINT;
 COULD NOT BREAK TOOL JOINT; LAY DOWN 2
 COLLARS; DRILLING WITH 35,000 LBS ON BIT
 BELOW 4,358'

Vis: 48, Wt: 9.1, YP: 13,
 GelS: 10/25, pH: 9.5, WL: 7.2,
 Chl: 5,100, Sol: 5.4, LCM: 1.5#

TOTAL DEPTH 4410 (2078)