



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1044895

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Harkness Trust 1-5
Doc ID	1044895

Tops

Name	Top	Datum
Anhydrite	1830	+664
B/Anhydrite	1864	+630
Heebner Shale	3885	-1391
B/KC	4220	-1726
Marmaton	4280	-1786
Pawnee	4331	-1837
Ft. Scott	4419	-1925
Cherokee Shale	4442	-1948
Cherokee Sand	4522	-2028
Mississippian	4600	-2106



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

October 04, 2010

Mark Shreve
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206

Re: ACO1
API 15-135-25079-00-00
Harkness Trust 1-5
NW/4 Sec.05-17S-23W
Ness 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,
Mark Shreve

ALLIED CEMENTING CO., LLC. 039025

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oshtemo

DATE <u>6-27-10</u>	SEC. <u>5</u>	TWP. <u>17s</u>	RANGE <u>23W</u>	LOCATED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Hopkress</u>	WELL # <u>1-5</u>	LOCATION <u>Ransom</u>	<u>2E 2S</u>	COUNTY <u>WES</u>	STATE <u>KS</u>	<u>1:30 AM</u>	<u>2:30 AM</u>
OLD OR <u>NEW</u> (Circle one)				<u>E 5 in 2</u>			

CONTRACTOR WFW Rig 10 OWNER same

TYPE OF JOB PTA

HOLE SIZE 4 1/2 T.D. 4440'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1830'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

386-281 HELPER Lorene

BULK TRUCK DRIVER Ferry

BULK TRUCK DRIVER _____

REMARKS:

50 SKS @ 1830'

80 SKS @ 1110'

50 SKS @ 1200'

20 SKS @ 240'

30 SKS @ Rod hole

Thank you

CHARGE TO: Well Drilling company

STREET _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mark Stout

SIGNATURE Mark Stout

CEMENT AMOUNT ORDERED 280 SKS 6440

496 gal 1/2 Flo-seal

COMMON 168 SKS @ 15.45 2595.60

POZMIX 112 SKS @ 8.00 896.00

GEL 10 SKS @ 20.80 208.00

CHLORIDE _____ @ _____

ASC _____ @ _____

Flo-seal 204 @ 2.50 510.00

HANDLING 292 SKS @ 348 200.80

MILEAGE 120.56/mi @ 438.00

TOTAL 523.40

DEPTH OF JOB 1830'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____

MILEAGE 15 miles @ 7.00 105.00

MANIFOLD _____ @ _____

TOTAL 1122.00

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4046

Date	6-21-10	Sec.	5	Twp.	17	Range	23	County	Ness	State	Kansas	On Location		Finish	4:30pm
Lease	Harkness (not)	Well No.	15		Location		Hwy 283 R4 25 1/4 E								
Contractor	WW Drilling Rig 10				Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	Surface				Charge To		Mull Drilling								
Hole Size	T.D.		204		Depth		223								
Csg.	200		Depth		Street										
Tbg. Size	Depth		City		State										
Tool	Depth		City		State										
Cement Left in Csg.	10-15		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line	Displace		13 1/2 (B)		Cement Amount Ordered		150 Com 300 2600								

EQUIPMENT

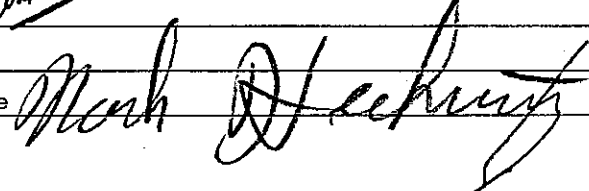
Pumptrk	9	No.	Cementer	Steve	1/4	Common	150
			Helper				
Bulktrk	8	No.	Driver	Brandon	4	Poz. Mix	
			Driver				
Bulktrk		No.	Driver	Dave	4	Gel.	3
			Driver			Calcium	5

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 150
	Mileage 73

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 11

X Signature 	(Russell)	Tax
		Discount
		Total Charge



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull
1700 N Waterfront PKWY
Wichita, KS 67206
ATTN: Phil Askey

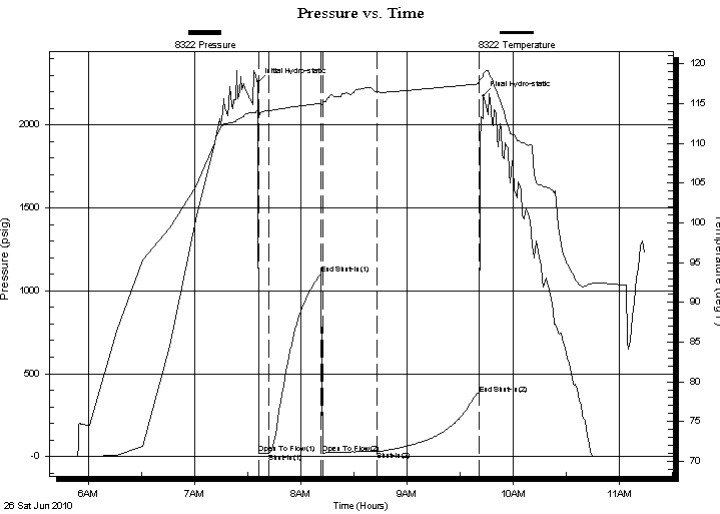
Harkness Trust #1-5
5-17s-23w Ness
Job Ticket: 39177 **DST#: 1**
Test Start: 2010.06.26 @ 05:54:05

GENERAL INFORMATION:

Formation: **Ft Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:36:15
Time Test Ended: 11:14:44
Interval: 4400.00 ft (KB) To 4450.00 ft (KB) (TVD)
Total Depth: 4450.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48
Reference Elevations: 2494.00 ft (KB)
2489.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
Press @ Run Depth: 30.89 psig @ 4401.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.26 End Date: 2010.06.26 Last Calib.: 2010.06.26
Start Time: 05:54:05 End Time: 11:14:44 Time On Btm: 2010.06.26 @ 07:36:00
Time Off Btm: 2010.06.26 @ 09:43:15

TEST COMMENT: IF: Built to 1/4 inch.
IS: No return.
FF: Surface blow for 6 mins.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.13	114.13	Initial Hydro-static
1	17.49	113.28	Open To Flow (1)
7	19.53	114.12	Shut-In(1)
36	1100.95	115.04	End Shut-In(1)
37	21.11	115.01	Open To Flow (2)
67	30.89	116.48	Shut-In(2)
125	377.67	117.48	End Shut-In(2)
128	2175.15	118.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mw / O spots 100% m	0.01
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull
1700 N Waterfront PKWY
Wichita, KS 67206
ATTN: Phil Askey

Harkness Trust #1-5
5-17s-23w Ness
Job Ticket: 39177 **DST#: 1**
Test Start: 2010.06.26 @ 05:54:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7300.00 ppm			
Filter Cake: 2.00 inches			

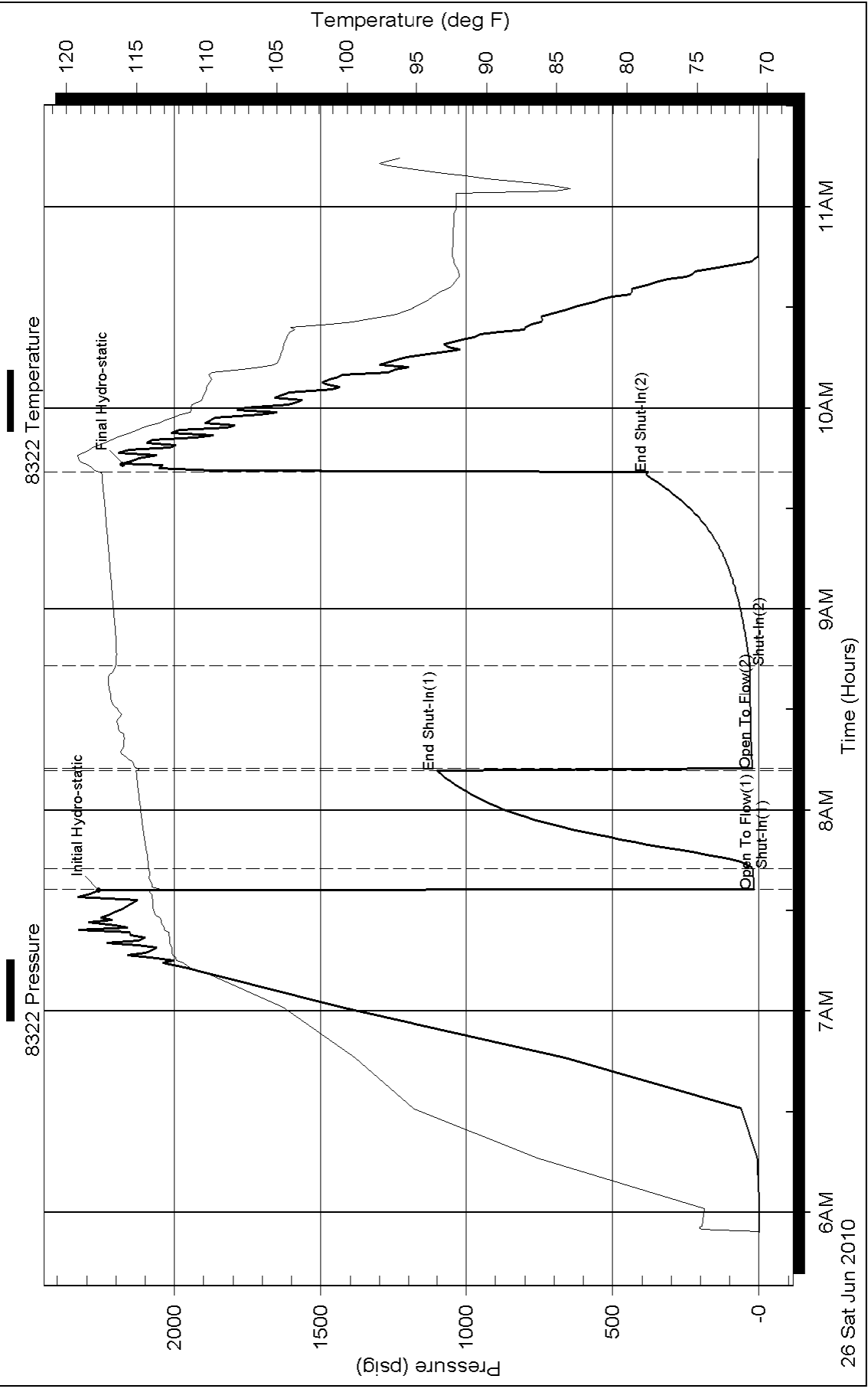
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mw / O spots 100%m	0.015
0.00	GIP = 0	0.000

Total Length: 3.00 ft Total Volume: 0.015 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull
1700 N Waterfront PKWY
Wichita, KS 67206
ATTN: Phil Askey

Harkness Trust #1-5
5-17s-23w Ness
Job Ticket: 39178 **DST#: 2**
Test Start: 2010.06.26 @ 23:43:05

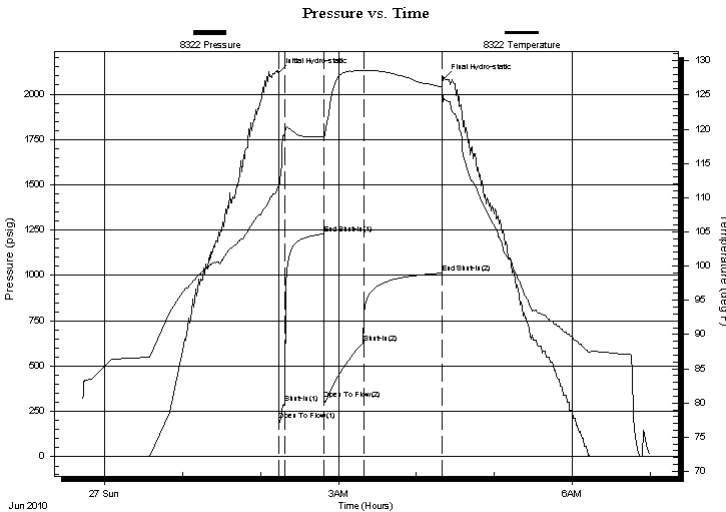
GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:14:15
Time Test Ended: 06:59:59
Interval: 4437.00 ft (KB) To 4525.00 ft (KB) (TVD)
Total Depth: 4525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brandon Domsch
Unit No: 48
Reference Elevations: 2494.00 ft (KB)
2489.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8322 Inside
Press @ RunDepth: 628.35 psig @ 4438.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.06.26 End Date: 2010.06.27 Last Calib.: 2010.06.27
Start Time: 23:43:05 End Time: 06:59:59 Time On Btm: 2010.06.27 @ 02:14:00
Time Off Btm: 2010.06.27 @ 04:21:00

TEST COMMENT: IF: BOB in 1 1/2 mins.
IS: Surface blow for 5 mins.
FF: BOB in 2 mins.
FS: Surface blow for 12 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.78	111.65	Initial Hydro-static
1	199.13	111.32	Open To Flow (1)
5	295.04	119.53	Shut-In(1)
35	1228.66	118.82	End Shut-In(1)
35	318.01	118.55	Open To Flow (2)
66	628.35	128.54	Shut-In(2)
126	1013.06	126.20	End Shut-In(2)
127	2086.17	124.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100%m	0.15
591.00	CW 100%w	7.43
124.00	MCW 80%w 20%m	1.74
375.00	SO&WCM 5%o 35%w 60%m	5.26
90.00	M 100%m	1.26
0.00	GIP = 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull
1700 N Waterfront PKWY
Wichita, KS 67206
ATTN: Phil Askey

Harkness Trust #1-5
5-17s-23w Ness
Job Ticket: 39178 **DST#: 2**
Test Start: 2010.06.26 @ 23:43:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 2.00 inches			

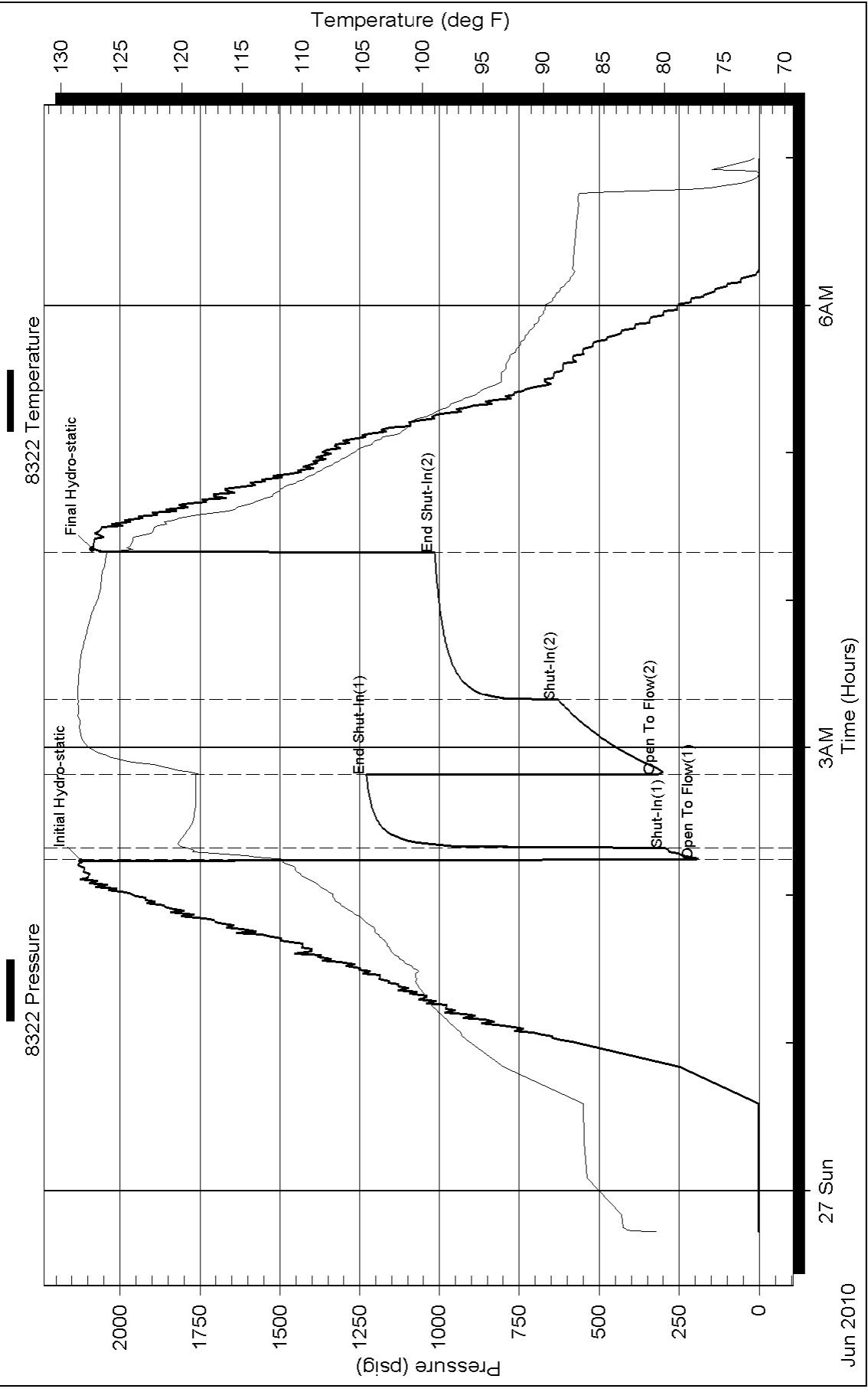
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
591.00	CW 100%w	7.434
124.00	MCW 80%w 20%m	1.739
375.00	SO&WCM 5%o 35%w 60%m	5.260
90.00	M 100%m	1.262
0.00	GIP = 0	0.000
0.00	RW = .165@78F = 42000ppm	0.000

Total Length: 1210.00 ft Total Volume: 15.843 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time





PHIL ASKEY
PETROLEUM GEOLOGIST



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mull Drilling Company, Inc

LEASE Harkness Trust #1-5

FIELD Wildcat

LOCATION 950' ENL E 832' FWL

SEC 5 TWP 17 S RGE 23 W

COUNTY Ness STATE Kansas

CONTRACTOR WW Drilling Rig #10

SPUD 6/21/10 COMP 6/27/10

RTD 4640' LTD 4644'

MUD UP 3395' TYPE MUD Chemical - mud-

ELEVATIONS

KB 2494'

DF 2492'

GL 2489'

Measurements Are All
From KB

CASING
SURFACE 8 5/8 @ 224' w/10'
PRODUCTION _____

ELECTRICAL SURVEYS
Superior Well Services:
CWL/COL; OIL; Micro; Sol

SAMPLES SAVED FROM 3700' TO RTD

DRILLING TIME KEPT FROM 1700'-1900'; 3700' TO RTD

SAMPLES EXAMINED FROM 3700' TO RTD

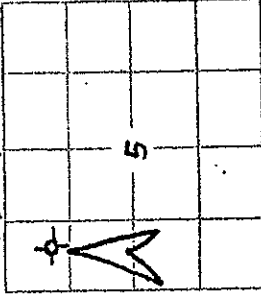
GEOLOGICAL SUPERVISION FROM 4000' TO RTD

GEOLOGIST ON WELL Phil Askey, P. G.

FORMATION TOPS	LOG	SAMPLES
Anhydrite	1830 +66Y	1827
Heelover	3885 -1391	3882
Casing	3929 -1435	3927
B/KC	4220 -1726	4218
Marmaton	4280 -1786	4278
Pawnee	4331 -1837	4328
Fl. Sept	4419 -1925	4415
Cherokee Shale	4442 -1948	4438
Cherokee Sand	4522 -2028	4519
Miss Warsaw	4600 -2106	4596
LTD / RTD	4644 -2150	4640

Reference Well:

Mull Drilling Co
Klitzke #1-6



Mull Drilling
Harkness Trust #1-5

The main target formation the Cherokee sand, contained a good sample show but and was tested with negative results, mainly due to a thinned shale component section above the sandstone.

The other sample shows were tested in DST with negative results.

After review of the e-log, it was decided to plug and abandon the well.

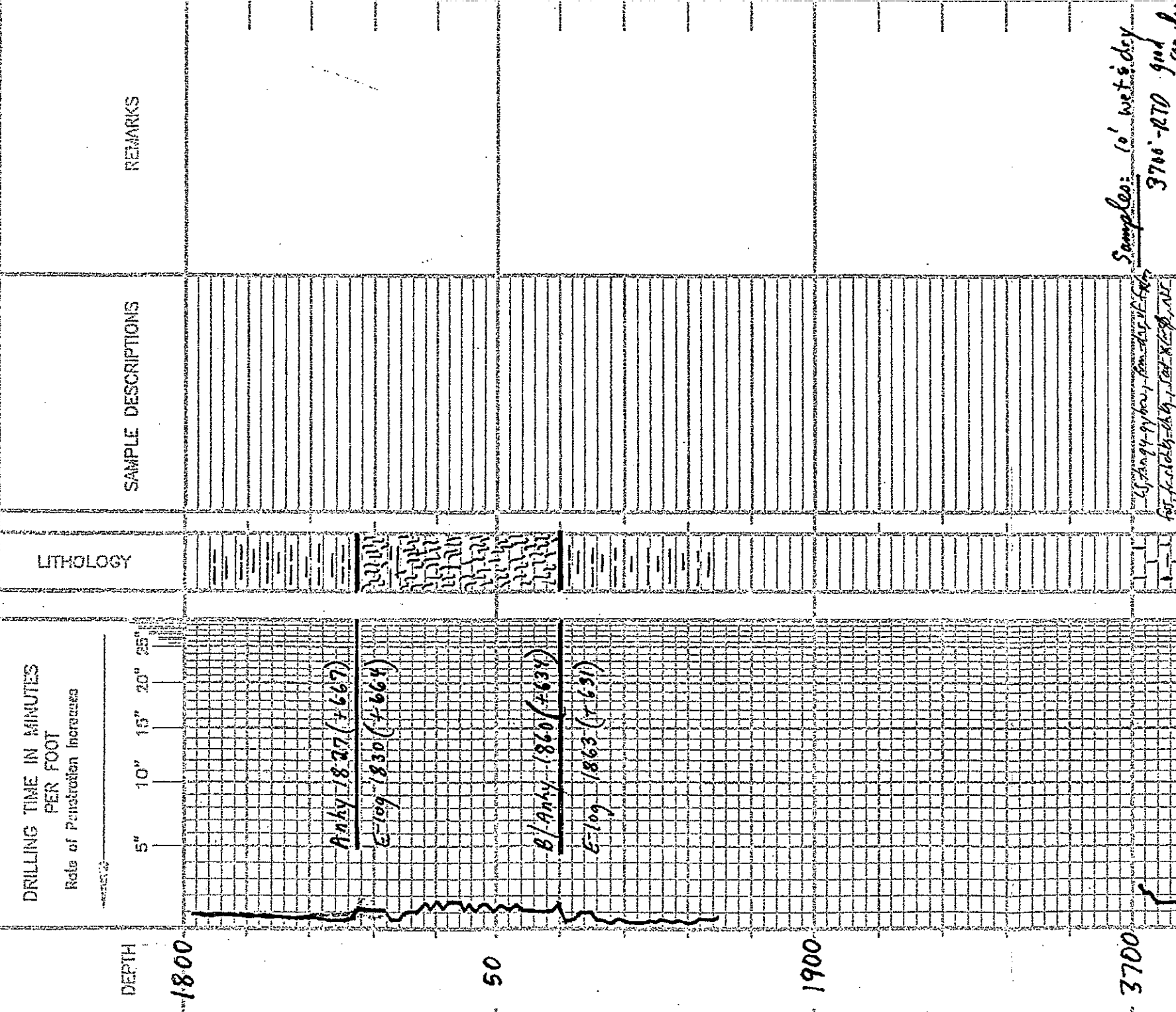
Phil Oakley, P.E.

Well API # 15-135-25079

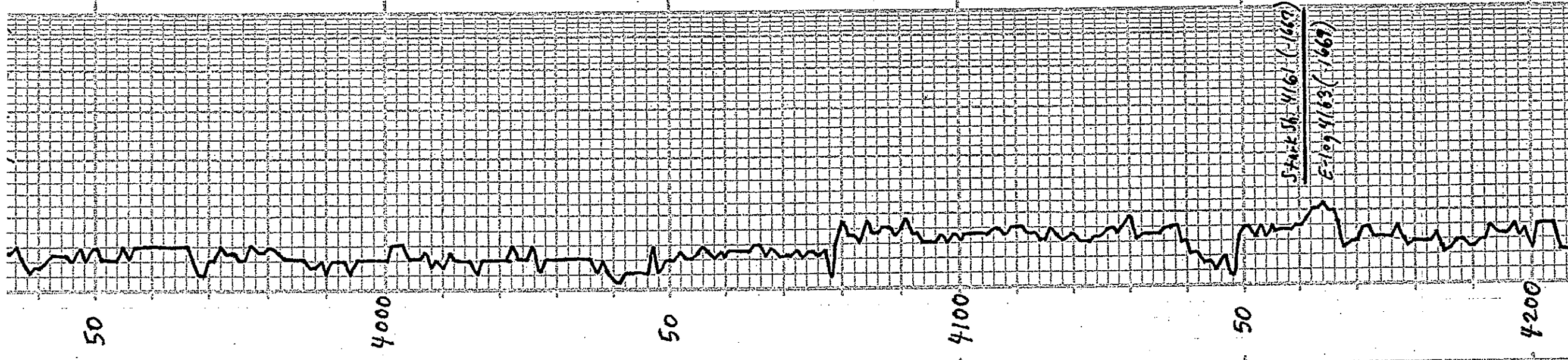
LEGEND

	Anhydrite		Salt		Sandstone		Shale		Cerb sh		Limestone		Ool.Llms		Chert		Dolomite
--	-----------	--	------	--	-----------	--	-------	--	---------	--	-----------	--	----------	--	-------	--	----------

SCALE 1" = 100'

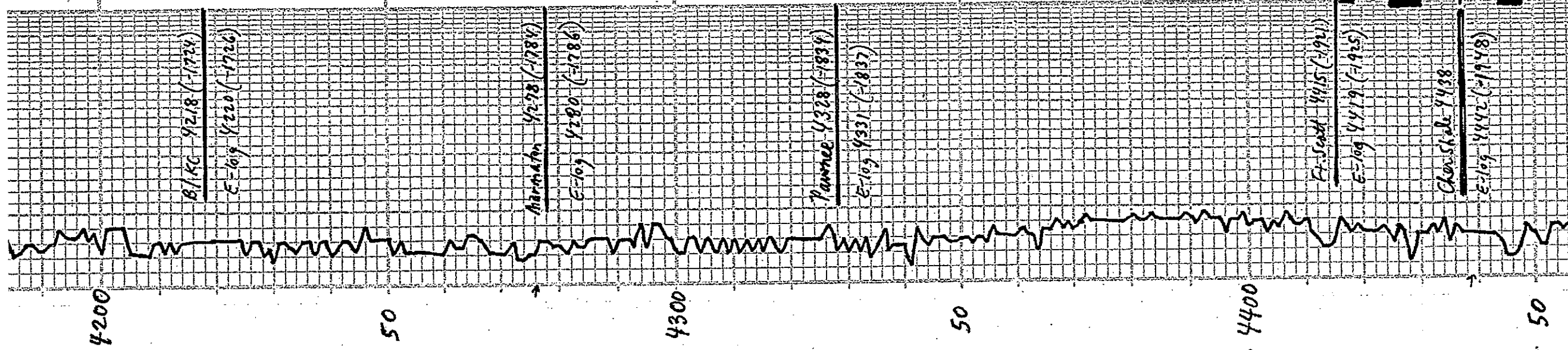


Samples: 6' wet & dry
3700'-RTO 9nd P.



v. f. n. - f. n. l., seat. v. n. o., n. s.
 seat. v. h. f. n. h. g. y. s. e. l., c. h. t., f. r. e. s. h.
 c. s. f. a. n. b. e. e. d., q. 4 b. e. e. n., n. e. s. t. i. d. y. d. a. s.
 m. i. c. r. o. - m. a. x. i. m., s. e. e. s. i. f. f. h. e. a. d. i. n. g.,
 f. r. e. s. h. s. t. e. c. k. y. = c. h. k. y., v. i. n. o. d. u. l.,
 s. h. i. g. g. y. a. g. g. e. n. - c. u. l. t. u. r. y., f. r. e. s. h.
 s. t. e. c. k. y., f. a. n. - y.
 c. s. f. a. n., f. a. n., d. o. l. e. 3, o. o. l.,
 f. r. o. o. l. o., n. s.
 c. s., f. a. n. o. o. r., f. a. n., v. f. f. a. n.
 f. a. n., s. e. a. t. f. r. - p. h. o., n. s.
 n. u. d. v. a. s. t. e. c. k., s. t. e. c. k. y. = c. h. k. y.
 f. r. e. s. h. c. h. t.
 s. h. i. d. g. y. - e. l. b. e. e. n. - i. p. p. r. e. - g. e. n.
 c. s., f. a. n. c. o. m. q. y., f. a. n. - d. a. s.
 f. r. e. s. h. = e. n. s. - c. h. k. y., f. r. e. s. h. c. h. k. y.
 m. i. c. r. o. - f. i. l. e. r., f. r. e. s. h. = p. h. o., n. s.
 f. r. e. s. h. v. a. f. a. c. t. f. a. c. t. f. r. e. s. h.
 c. s., c. o. m. f. a. n., f. a. n., v. f. f. a. c. t. f. r. e. s. h.
 3 p. o. u. t. w. f. f. a. o. o. l. o., n. s.
 s. m. i. c. r. o. - c. h. k. y., f. r. e. s. h.,
 s. e. a. t. v. a. f. a. c. t. f. r. e. s. h., n. s.
 s. e. a. t. c. h. t., q. y. f. a. n. b. o. y., s. e. a. t. f. r. e. s. h.
 c. s., f. a. n. b. e. e. d. h. g. y., f. a. n. - d. a. s.
 m. i. c. r. o. - c. h. k. y., s. h. i. g. g. y., f. r. e. s. h., s. e. r. i. e. s.
 f. r. e. s. h. v. a. s. t. e. c. k. y. = c. h. k. y.,
 p. h. o. - v. a. f. a. c. t. f. r. e. s. h., n. s.
 s. h. i. d. e. r., e. a. n. d.
 c. s., f. a. n. q. y. b. e. e. d., e. n. s. - c. h. k. y.,
 m. i. c. r. o. s., m. i. c. r. o., n. s.
 s. e. a. t. q. y. f. a. n. f. r. e. s. h. c. h. t., f. r. e. s. h.
 f. r. e. s. h. = c. h. k. y.
 s. h. i. d. e. r. - q. y. a. p. p. r. e. n. q. y. n.
 c. s., f. a. n. h. g. y., e. n. s. - c. h. k. y., f. r. e. s. h.
 s. m. i. c. r. o. - c. h. k. y., f. r. e. s. h., m. i. c. r. o.,
 n. s.
 c. s., f. a. n. c. o. m., f. a. n. s. e. e. d. a. s.,
 f. r. e. s. h., f. r. e. s. h. o. o. l. o., n. s.
 s. m. i. c. r. o. - c. h. k. y., f. r. e. s. h., f. r. e. s. h.,
 n. s.
 c. s., f. a. n. h. g. y. f. a. n., e. n. s. - c. h. k. y.,
 p. h. y., f. r. e. s. h. - d. a. s., v. f. f. a. c. t.
 m. i. c. r. o., n. s. f. a. n. - c. h. k. y.
 s. h. i. d. e. r. - q. y. n.
 c. s., o. f. f. i. c. e. h. g. y. f. a. n., d. a. s.,
 m. i. c. r. o. - f. a. n., s. e. a. t. c. h. k. y. = c. h. k. y.
 f. r. e. s. h., f. r. e. s. h. o. o. l., f. r. e. s. h.
 m. i. c. r. o., n. s., f. r. e. s. h. - c. h. k. y., n. s.
 s. e. a. t. c. h. t., q. y. f. a. n. s. t. a. m. p. l. e. s., f. r. e. s. h.
 m. i. c. r. o., f. r. e. s. h.
 s. h. i. d. e. r., f. r. e. s. h. o. o. l.

11/10 P 1951



NUSC 9, AS, 7-06-55 C-04949, NS Sect. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	SH, blk, fine carb LS, offwh, HAN, fine carb micaceous, gray, fine carb = chky K-fel, calc, shaly, dark, micaceous zone with chky	SH, cal, var LS, fine carb, offwh, fine carb pithy, micaceous, dark micaceous, K mic sep, NS 3 pc. amber cast - 7.44 for det	SH, blk, fine carb SH, 9-9, dk gray, 149 ppm radon, calc sect. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	LS, offwh, honey com, AS, blk sample, radon = 17.2 (18), 18 (21) NUSC 9, NS, sect. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	SH, 9-9, blk, 99 ppm radon sect = chky, radonized NS	LS, offwh, wt. 99, fine carb V.F. fine, micaceous, K mic sep, sect 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	NS, micaceous, fine carb, fine carb LS, offwh, fine carb, 149 ppm radon, 18 (21) chky, blk, micaceous, calc micaceous, fine carb, NS	mud chky, calc, thin, shaly LS, offwh, fine carb, 149 ppm radon, 18 (21) chky, blk, micaceous, calc micaceous, fine carb, NS	LS, fine carb, blk, fine carb calc, micaceous, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb	LS, fine carb, blk, fine carb calc, micaceous, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb	calc, fine carb, blk, fine carb fine carb, calc, shaly, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb	calc, fine carb, blk, fine carb fine carb, calc, shaly, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb	calc, fine carb, blk, fine carb fine carb, calc, shaly, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb	calc, fine carb, blk, fine carb fine carb, calc, shaly, fine carb, 18 (21) calc, blk, chky, calc, NS fine carb, calc, shaly, fine carb
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Mud-co data @ 4362'
 WT 9.5 VIS 59 WL 13.6
 PH 8.5 CL 7300 ppm com 0.7
 DST #1 4400-4450'
 Times: 5' - 30" - 30" - 60"
 1st open: West surface blow
 2nd open: West blow - died in 6'
 Rec: 3' mud w/oil spots
 IFF 17-19# 151P (1004)
 FFY 21-30# 551P 377 #
 BHT 117°F
 Start of 20 stands pulled v. tight

