

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 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
--	---

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	GAMBLE 1
Doc ID	1635636

All Electric Logs Run

DIL
CDNL
ML
BHC

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	GAMBLE 1
Doc ID	1635636

Tops

Name	Top	Datum
Topeka	2964	-1144
Heebner	3286	-1466
Toronto	3300	-1480
Douglas	3315	-1495
Brown Lime	3455	-1635
Lansing	3485	-1665
Base Kansas City	3781	-1961
Mississippian	3819	-1999
Mississippian Lime	3846	-2026
Kinderhook	3880	-2060
Viola	3973	-2153
Simpson Shale	4079	-2259
Arbuckle	4144	-2324
RTD	4200	-2380
LTD	4200	-2380

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 1

Well Name: Gamble #1
 Location: 1984' FSL & 948' FEL
 Section: 21-25S-11W
 County: Stafford
 API: 15-185-24090-00

GL Elevation: 1810'
 KB: 1820'
 Est. TD: 4200'
 Surface Pipe: 1000'

Rig No. 1 (Pusher Frank Rome) 620-566-7324
 Rig No. 1 (Doghouse) 620-566-7094
 Southwind Drilling Office 620-564-3800

Surface Casing: Ran 15 joints of new, 32#, 8 5/8" casing, tally @ 612', set @ 624', used 450 sacks of 60/40, 4% cc, 2% gel, cement circulated, by Quality, ticket #2377, plug down @ 5:30am on 9.30.21

Production Info:

Rotary Total Depth: 4200'
 Log Total Depth: 4200'

Geologist: Jim Musgrove



7:00 A.M. Depth: 4200'

CURRENT OPERATION: RUN CASING

Spud Date & Time:	09/29/21	09/30/21	10/01/21	10/02/21	10/03/21	10/04/21	10/05/21	10/06/21	10/07/21	10/08/21	Total
9/29/21 @ 5:00pm	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	
Total Depth (7:00am)	0	625	1783	2735	3360	3566	3730	3890	4129	4200	4200
Daily Progress	625	1158	952	625	206	164	160	239	71	0	
Ft. Per Hr.	100.00	84.22	43.77	32.47	28.41	21.16	22.86	14.27	17.75	#DIV/0!	40.48
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	Drilling	TOWT	Drilling	DST #4	Drilling	Run Casing	
Formation	Surface	Lime	Lime	Lime / Shale	Shale	Shale	LKC	Mississippi	Shale		
Fuel Used (39.6 Gal/Inch)	277.20	277.20	396.00	475.20	277.20	237.60	277.20	356.40	237.60		2811.60
Survey (degree & depth)	1° @ 625'					1/4° @ 3720'					

Mud Cost	\$0.00	\$1,072.46	\$2,695.33	\$2,561.15	\$1,235.62	-\$310.03	\$770.33	\$0.00			\$8,024.86
Weight (# / Gal)			8.7	9.7		9.0		9.4			
Vis (Funnel)			49	54		52	58	52			
Water Loss (cc)											

Bit #1											
Bit Make / Type	RT RR										
Bit Size	12 1/4										
Bit Hours	6.25										6.25
Bit #2											
Bit Make / Type		JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	JZ HA23C	
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	
Bit Hours		13.75	21.75	19.25	7.25	7.75	7.00	16.75	4.00		97.50
Bit Cumulative Hours	6.25	13.75	21.75	19.25	7.25	7.75	7.00	16.75	4.00	0.00	103.75
Weight on Bit (WOB)	14,000	32,000	32,000	35,000	35,000	34,000	35,000	35,000	35,000		
Pump Pressure	516	750	700	900	750	750	750	800			
Drilling (Rotating) Hours	6.25	13.75	21.75	19.25	7.25	7.75	7.00	16.75	4.00	0.00	103.75

Daywork Hrs. (Operator's time)											
Rat Hole (>.75 Hrs)											0.00
Wait on Cement	1.50	6.50									8.00
Short Trip					1.50				0.75		2.25
Trip					3.25	8.50	9.50	3.50	3.25		28.00
Circulate				3.75	4.00	2.75	3.50	1.75	3.25		19.00
Tool					0.50	1.50	1.75	0.50			4.25
Testing					3.25	2.50	2.00	1.00			8.75
Clean Floor after DST											0.00
Logging									4.50		4.50
Survey (Operator Request)											0.00
LDDP / LDDC									4.75		4.75
Wait on Tester											0.00
Run Casing / Circ / Cement	3.25								3.00		6.25
Jet Cellar / Set Slips											0.00
Nipple Down									0.50		0.50
Billable Hours	4.75	6.50	0.00	3.75	12.50	15.25	16.75	6.75	20.00	0.00	86.25

Non-Billable Hours (Southwind's time)											
Rig Up / Tear Down	9.50										9.50
Wait on Cement (NB)											0.00
Drill Rat Hole (<.75 hrs)	0.50										0.50
Drill Plug		0.25									0.25
Bit Trip											0.00
Circulate / Trip (Surface)	1.25										1.25
Rig Repair					3.75						3.75
Connections	1.75	2.50	1.50	0.75	0.50	0.50	0.25	0.50			8.25
Jet/Displace		0.75	0.75								1.50
Surveys						0.25					0.25
Rig Check		0.25		0.25		0.25					0.75
Circulate / Trip (NB)											0.00
Lost Circulation (< 2 hrs)											0.00
Lay Down Kelly / MH & RH											0.00
Non-Billable Hrs.	13.00	3.75	2.25	1.00	4.25	1.00	0.25	0.50	0.00	0.00	26.00

Footage Cost	\$ 7,500.00	\$ 13,896.00	\$ 11,424.00	\$ 7,500.00	\$ 2,472.00	\$ 1,968.00	\$ 1,920.00	\$ 2,868.00	\$ 852.00	\$ -	\$ 50,400.00
Daywork Cost	\$ 1,662.50	\$ 2,275.00	\$ -	\$ 1,312.50	\$ 4,375.00	\$ 5,337.50	\$ 5,862.50	\$ 2,362.50	\$ 7,000.00	\$ -	\$ 30,187.50
Combined Est. Cost*	\$ 9,162.50	\$ 16,171.00	\$ 11,424.00	\$ 8,812.50	\$ 6,847.00	\$ 7,305.50	\$ 7,782.50	\$ 5,230.50	\$ 7,852.00	\$ -	\$ 80,587.50

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 3500' - 3566' LKC Recovery: 1000' Gas in Pipe 50' Mud Strap -.09	DST #2 Info - Footage Interval: Recovery: 950' Gas in Pipe 280' Heavy Oil Cut Muddy Water
DST #3 Info - Footage Interval: _____ - 3890' Mississippi Recovery: miss run	DST #4 Info - Footage Interval: 3774' - 3890' Mississippi Recovery:

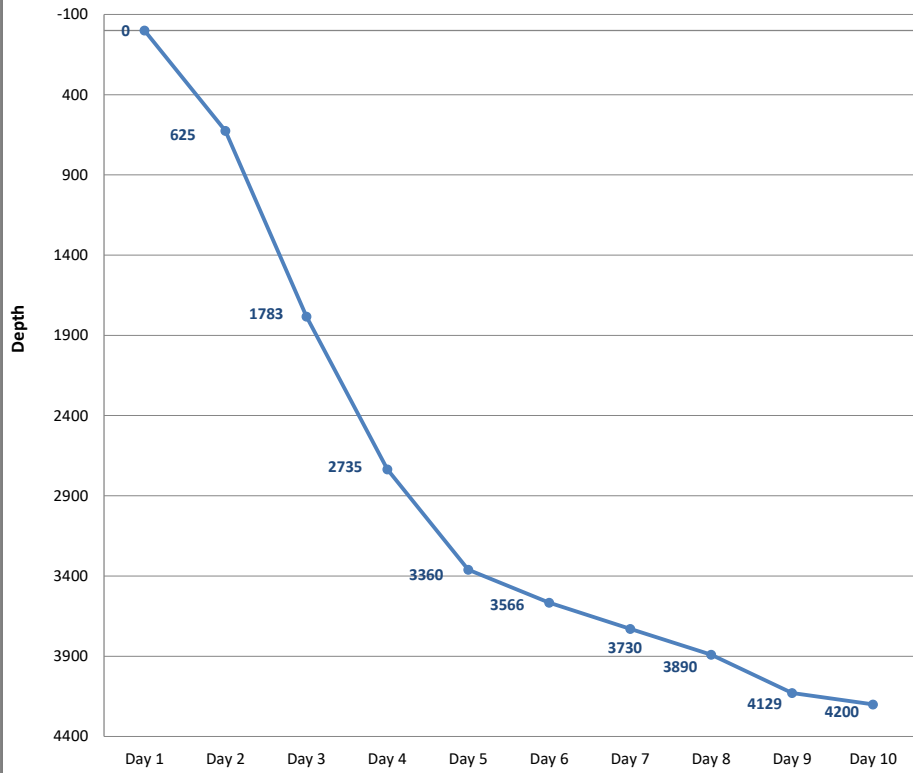


Job Summary Graphical Report

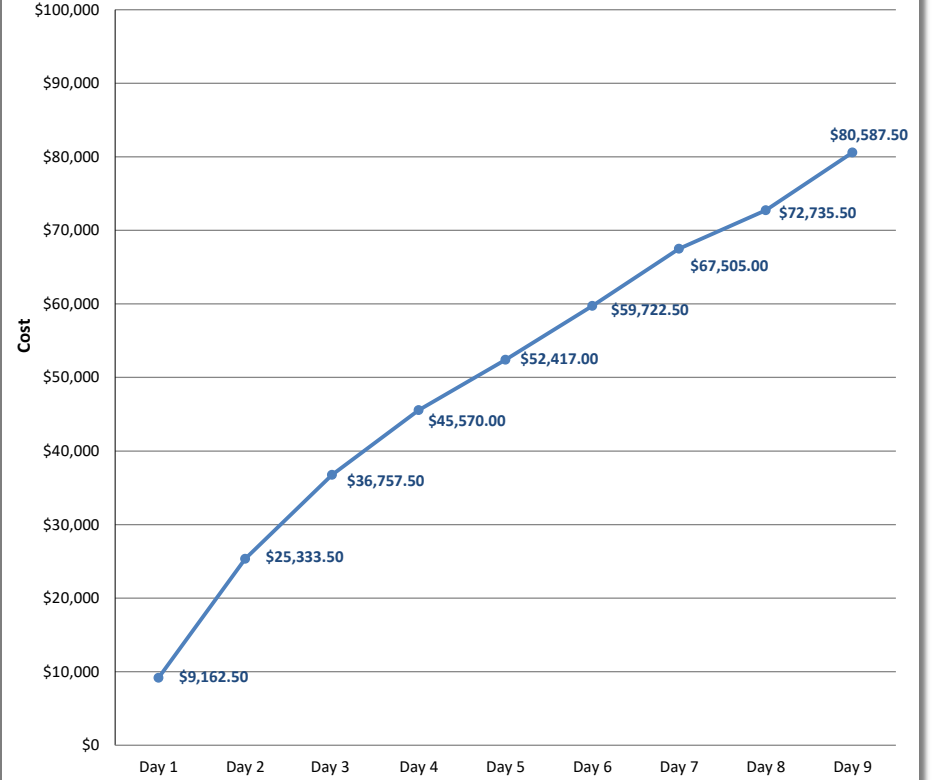
Southwind Rig No. 1

Gamble #1

Days vs Depth



Days vs Cost



OPERATOR

Company: HD Exploration LLC
 Address: 165 West 1st
 PO Box 387
 Hoisington, KS 67544-0387
 Contact Geologist: Jim Musgrove
 Contact Phone Nbr: 620-786-0839
 Well Name: Gamble #1
 Location: 21-25s-11w SE-NW-NE-SE
 API: 15-185-24090-00-00
 Pool:
 State: Kansas
 Field: Wildcat
 Country: USA

**H&D Exploration, LLC**

Scale 1:240 Imperial

Well Name: Gamble #1
 Surface Location: 21-25s-11w SE-NW-NE-SE
 Bottom Location:
 API: 15-185-24090-00-00
 License Number: 34674
 Spud Date: 9/29/2021 Time: 12:00 AM
 Region: Stafford
 Drilling Completed: 10/8/2021 Time: 12:00 AM
 Surface Coordinates: 1984' FSL & 948' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1810.00ft
 K.B. Elevation: 1820.00ft
 Logged Interval: 2900.00ft To: 4200.00ft
 Total Depth: 0.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1984' FSL
 E/W Co-ord: 948' FEL

LOGGED BY

Company: James C Musgrove Petroleum LLC
 Address: 212 Main Street/PO Box 215
 Claflin, KS 67525
 Phone Nbr: 620-588-4250 620-786-08
 Logged By: KLG #307 Name: James C Musgrove

CONTRACTOR

Contractor: Southwind Drilling
 Rig #: 1
 Rig Type: mud rotary
 Spud Date: 9/29/2021 Time: 12:00 AM
 TD Date: 10/8/2021 Time: 12:00 AM
 Rig Release: Time:

ELEVATIONS

K B Elevation: 1820 00ft Ground Elevation: 1810 00ft

NOTES

5 1/2" production casing was set and cemented on the H&D Excloration LLC, Gamble #1.

Respectfully Submitted,

James C Musgrove
Petroleum Geologist

well comparison sheet

Formation	GAMBLE #1 HD EXPLORATION LLC SE-NW-NE-SE 21-25s-11w				DOZIER #1 HD EXPLORATION LLC NE-NE-SW-NW 21-25s-44w				NICHOLS #1 REIF OIL & GAS CO. LLC SW-SW-NE-NW 22-25s-11w			
	1820 KB				1824 KB		Structural Relationship		1835 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka			2964	-1144						2980	-1145	1
Heebner			3286	-1466	3314	-1490		24	3295	-1460		-6
Toronto			3300	-1480	3331	-1507		27	3310	-1475		-5
Douglas			3315	-1495	3344	-1520		25	3325	-1490		-5
Brown Lime			3455	-1635	3487	-1663		28	3464	-1629		-6
Lansing			3485	-1665	3513	-1689		24	3500	-1665		0
Base Kansas City			3781	-1961	3820	-1996		35	3792	-1957		-4
Mississippian			3819	-1999	3941	-2117		118	3850	-2015		16
Mississippian Lime			3846	-2026								
Kinderhook			3880	-2060	4101	-2277		217	3861	-2026		-34
Viola			3973	-2153	4164	-2340		187	3961	-2126		-27
Simpson Shale			4079	-2259					4068	-2233		-26
Arbuckle			4144	-2324					4136	-2301		-23
Rotary Total Depth			4200	-2380	4200	-2376		-4	4190	-2355		-25
Log Total Depth			4200	-2380	4202	-2378		-2	4190	-2355		-25



Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #1 Formation: Land B Test Interval: 3490 - 3566' Total Depth: 3566'
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Electronic Volume Estimate:
1515'

1st Open
Minutes: 30
Current Reading:
90" at 30 min
Max Reading: 90"

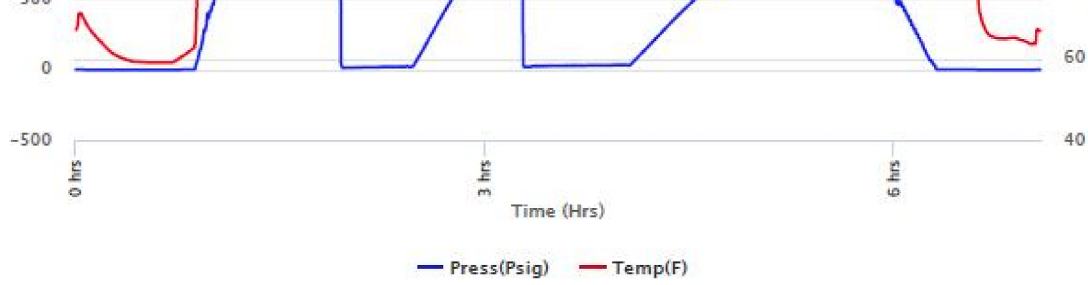
1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 3.7"

2nd Open
Minutes: 45
Current Reading:
92.1" at 45 min
Max Reading: 92.1"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 5"

Inside Recorder





Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
04
 2021

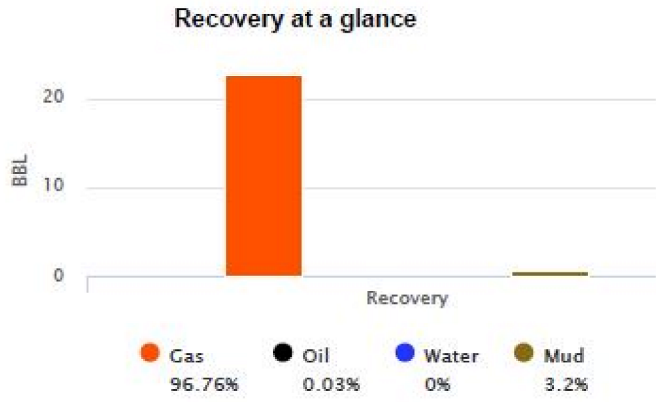
DST #1 Formation: Land B Test Interval: 3490 - 3566' Total Depth: 3566'
 Time On: 01:45 10/04 Time Off: 08:36 10/04
 Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1585	22.55455	G	100	0	0	0
53	0.75419	SLOCM	0	1	0	99

Total Recovered: 1638 ft
 Total Barrels Recovered: 23.30874

Reversed Out
 NO

Initial Hydrostatic Pressure	1682	PSI
Initial Flow	13 to 23	PSI
Initial Closed in Pressure	967	PSI
Final Flow Pressure	22 to 33	PSI
Final Closed in Pressure	881	PSI
Final Hydrostatic Pressure	1687	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	8.9	%



GIP cubic foot volume: 126.63252



Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
04
 2021

DST #2 Formation: H-J Test Interval: 3622 - 3720' Total Depth: 3720'
 Time On: 20:54 10/04 Time Off: 04:14 10/05
 Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

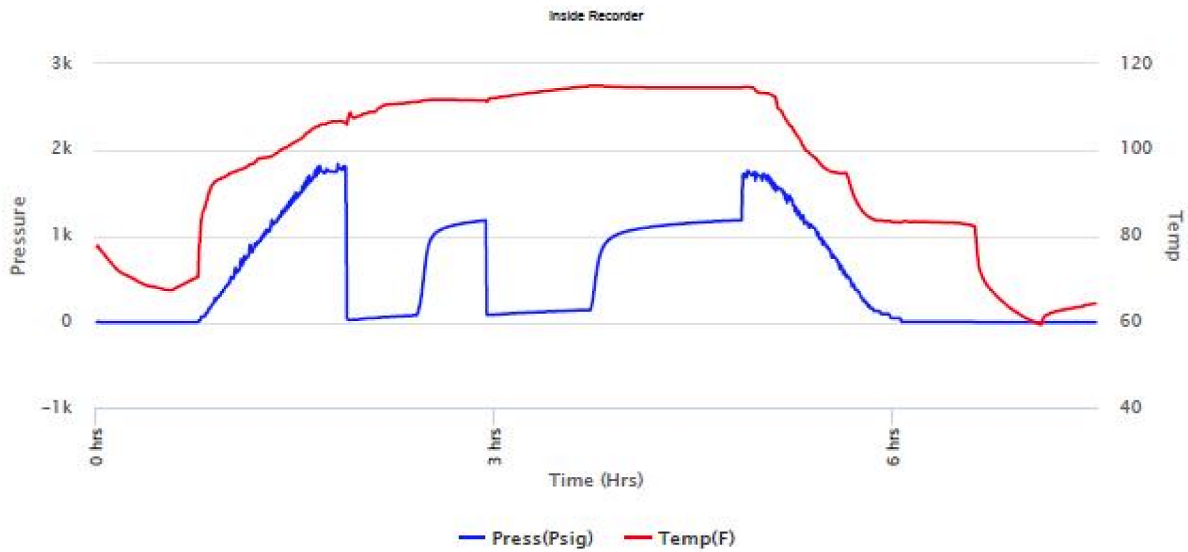
Electronic Volume Estimate:	1st Open Minutes: 30	1st Close Minutes: 30	2nd Open Minutes: 45	2nd Close Minutes: 60
1450'	Current Reading: 108.4" at 30 min	Current Reading: 0" at 30 min	Current Reading: 50.3" at 45 min	Current Reading: 5" at 60 min

Max Reading: 108.4"

Max Reading: 3.4"

Max Reading: 50.3"

Max Reading: 10.2"



Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
04
 2021

DST #2 Formation: H-J Test Interval: 3622 - 3720' Total Depth: 3720'
 Time On: 20:54 10/04 Time Off: 04:14 10/05
 Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

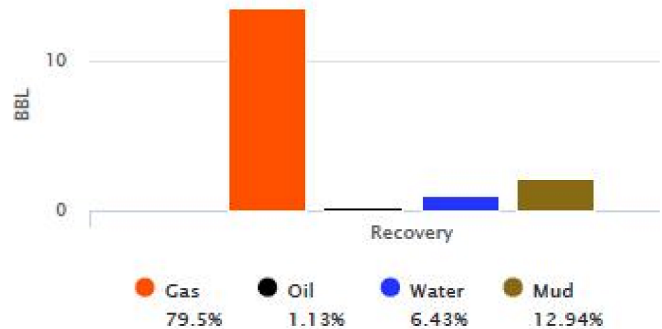
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
913	12.99199	G	100	0	0	0
31	0.44113	SLOCM	0	1	0	99
63	0.89649	SLOCSLWCGCM	20	5	0	75
126	1.79298	SLOCSLWCGCM	20	7	17	56
63	0.89649	SLOCSLMCW	0	2	88	10

Total Recovered: 1196 ft
 Total Barrels Recovered: 17.01908

Reversed Out
 NO

Initial Hydrostatic Pressure	1745	PSI
Initial Flow	22 to 78	PSI
Initial Closed in Pressure	1180	PSI
Final Flow Pressure	86 to 142	PSI
Final Closed in Pressure	1185	PSI
Final Hydrostatic Pressure	1745	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 75.96353



Company: H & D Exploration, LLC

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,

Operation:
Uploading recovery & pressures

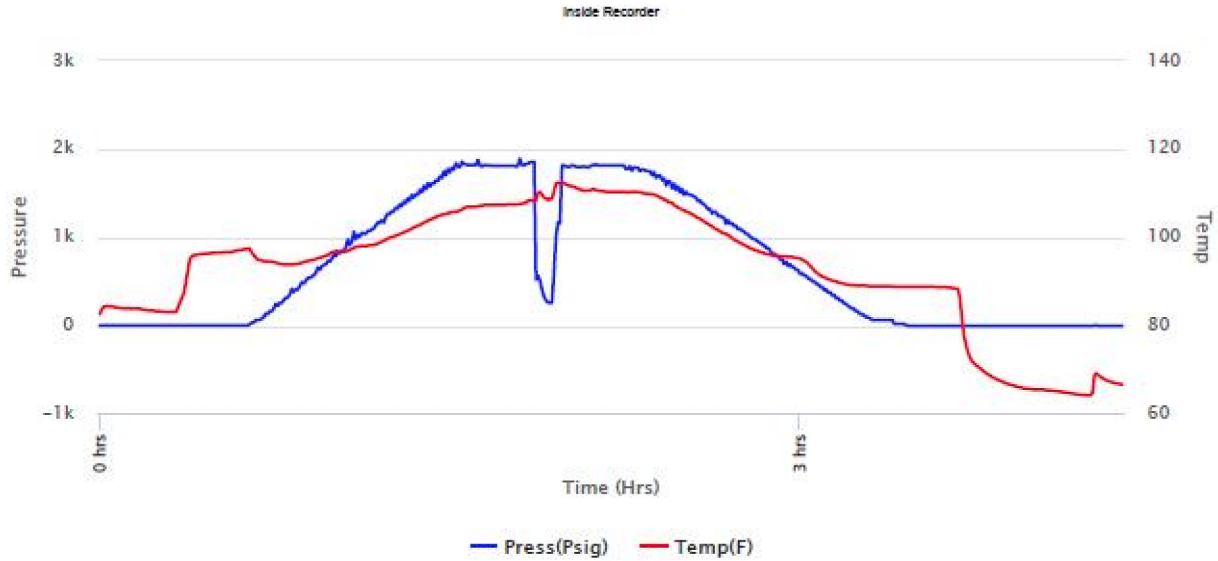
Lease: Gamble #1

Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

DATE
October
05
2021

DST #3 Formation: Lowe KC/ Miss Test Interval: 3734 - 3890' Total Depth: 3890'
Time On: 17:15 10/05 Time Off: 21:31 10/05
Time On Bottom: 19:05 10/05 Time Off Bottom: 19:25 10/05

Electronic Volume Estimate: N/A
1st Open Minutes: 20 1st Close N/A 2nd Open N/A 2nd Close N/A
Current Reading: GTS" at 20 min
Max Reading: GTS"



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
05
2021

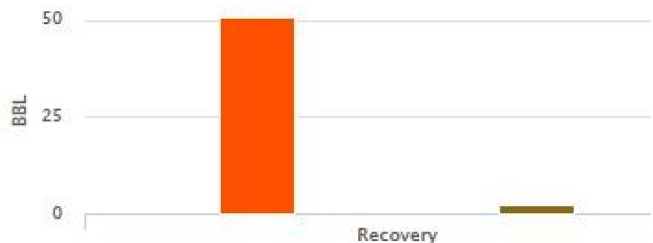
DST #3 Formation: Lowe KC/ Miss Test Interval: 3734 - 3890' Total Depth: 3890'
Time On: 17:15 10/05 Time Off: 21:31 10/05
Time On Bottom: 19:05 10/05 Time Off Bottom: 19:25 10/05

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
3553	50.55919	G	100	0	0	0
156	2.21988	M	0	0	0	100

Total Recovered: 3709 ft
Total Barrels Recovered: 52.77907

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	1806	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1806	PSI

Final Hydrostatic Pressure	1606	PSI				
Temperature	113	°F	● Gas	● Oil	● Water	● Mud
			95.79%	0%	0%	4.21%
Pressure Change Initial	0.0	%				
Close / Final Close						

GIP cubic foot volume: 283.86457



Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

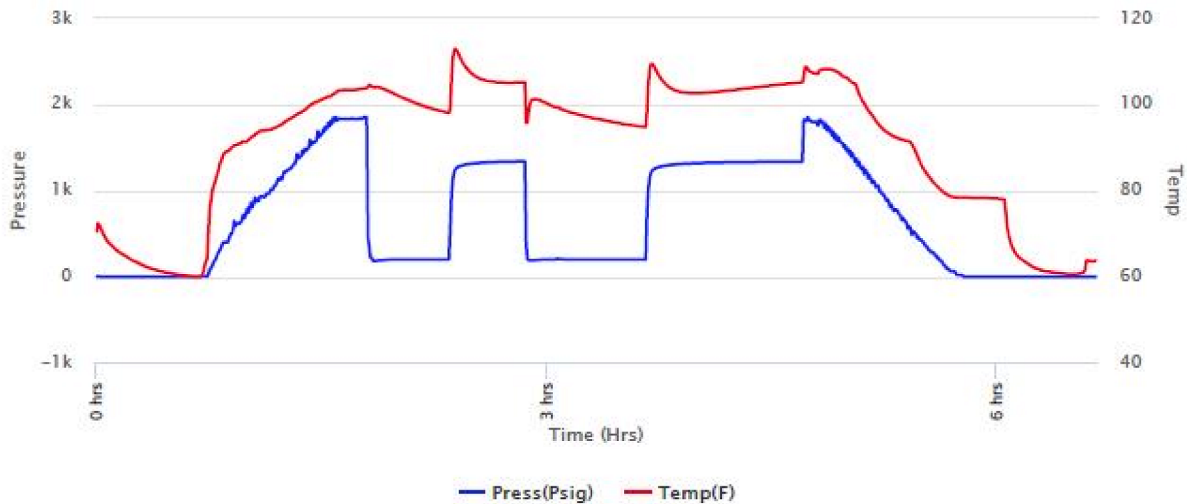
Operation:
 Uploading recovery & pressures

DATE
 October
06
 2021

DST #4 **Formation: LKC/Miss** **Test Interval: 3775 - 3891'** **Total Depth: 3891'**
 Time On: 03:18 10/06 Time Off: 09:46 10/06
 Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

Electronic Volume Estimate: N/A	1st Open Minutes: 30 Current Reading: GTS" at 30 min Max Reading: GTS"	1st Close Minutes: 30 Current Reading: 1.4" at 30 min Max Reading: 1.4"	2nd Open Minutes: 45 Current Reading: GTS" at 45 min Max Reading: GTS"	2nd Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"
------------------------------------	---	--	---	--

Inside Recorder



Company: H & D Exploration, LLC
Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
06
 2021

DST #4 **Formation: LKC/Miss** **Test Interval: 3775 - 3891'** **Total Depth: 3891'**
 Time On: 03:18 10/06 Time Off: 09:46 10/06
 Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

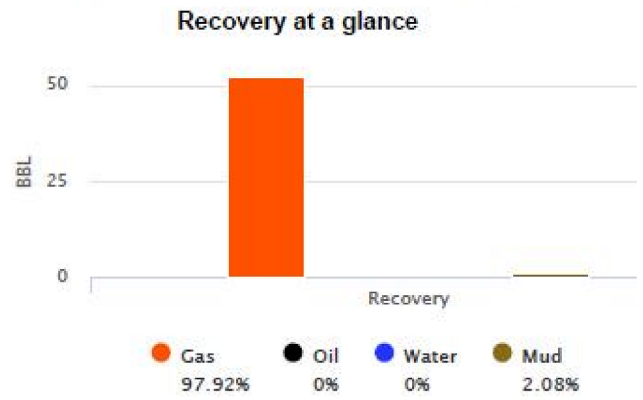
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3671	52.23833	G	100	0	0	0

78 1.10994 M
 Total Recovered: 3749 ft
 Total Barrels Recovered: 53.34827

Reversed Out
 NO

Initial Hydrostatic Pressure	1829	PSI
Initial Flow	184 to 197	PSI
Initial Closed in Pressure	1339	PSI
Final Flow Pressure	187 to 197	PSI
Final Closed in Pressure	1336	PSI
Final Hydrostatic Pressure	1823	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.2	%



GIP cubic foot volume: 293.2921

ROCK TYPES

	Cht		Dolprim		Lmst fw7>		Carbon Sh		Ss
	Cht vari		Dolsec		shale, grn		shale, red		Siltst
	Clystcol		Lmst fw<7		shale, gry		Shcol		

OTHER SYMBOLS

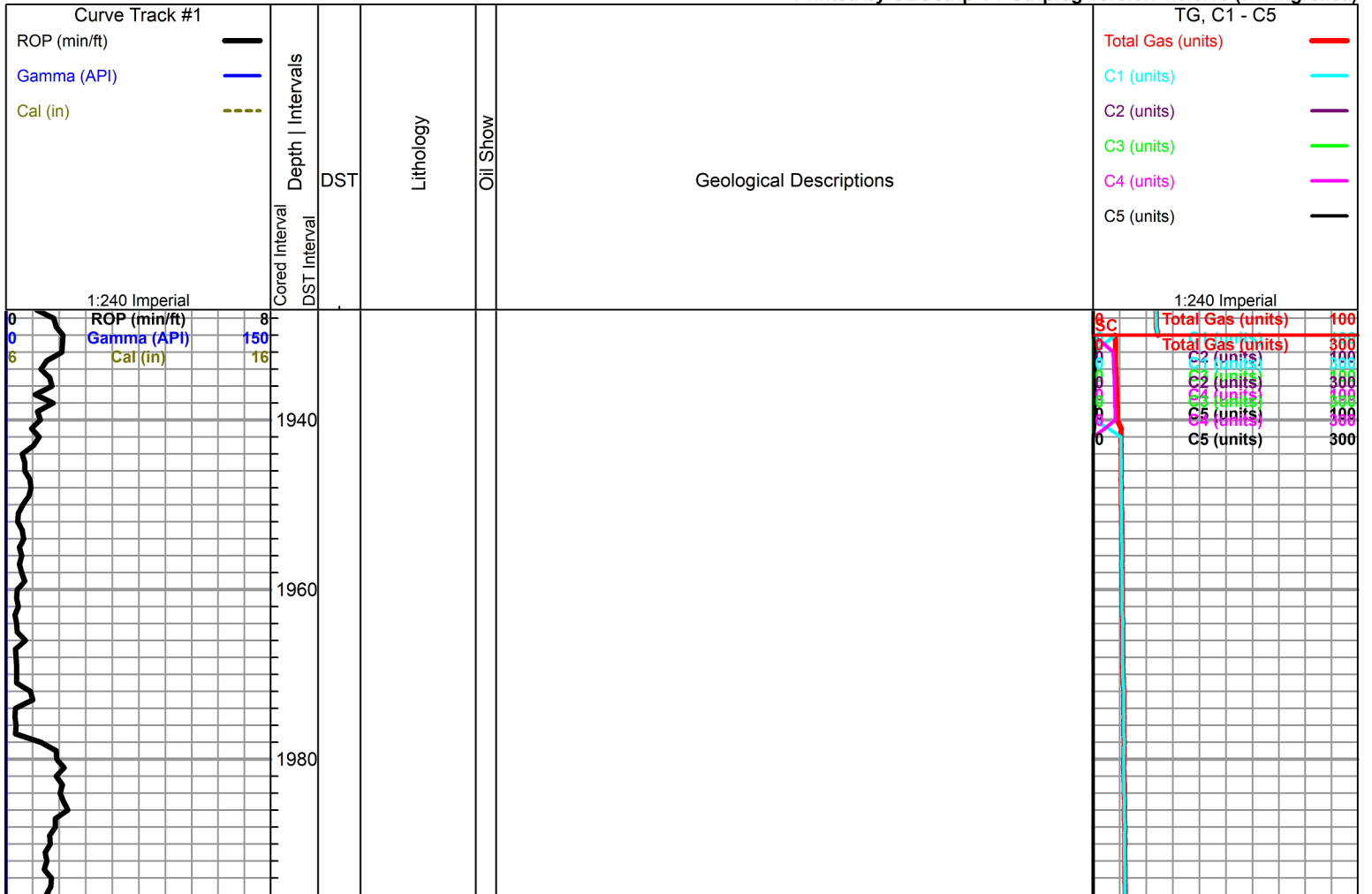
Oil Show

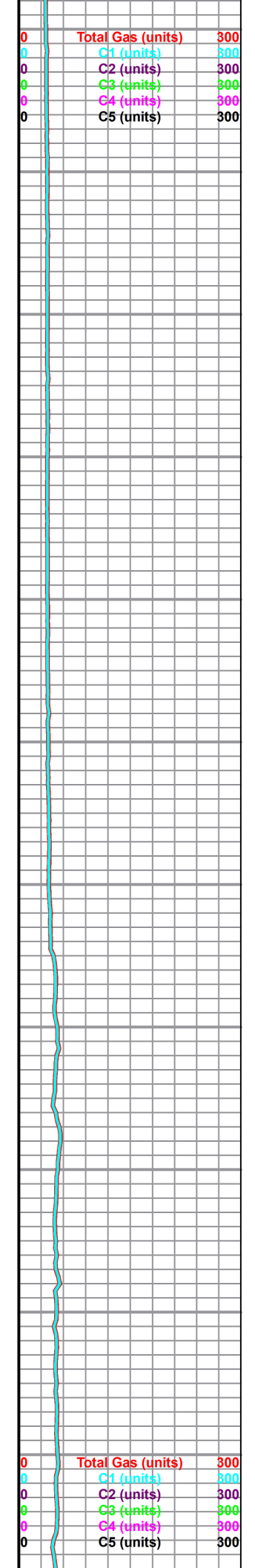
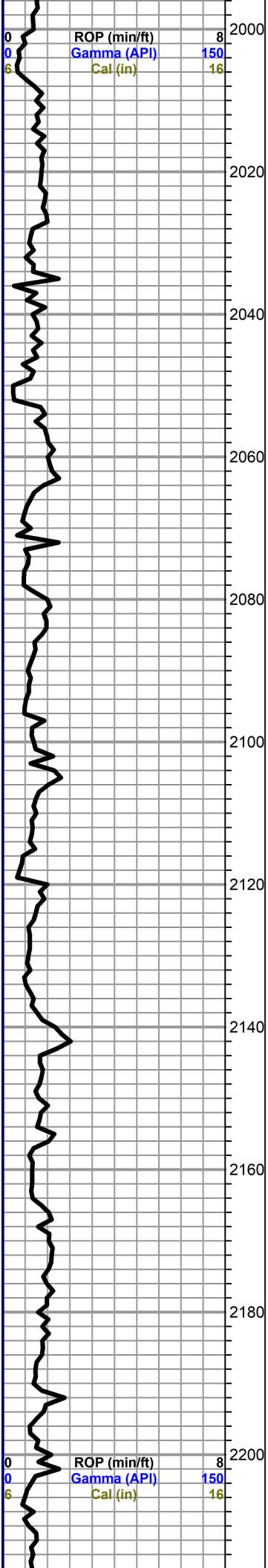
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





2220
2240
2260
2280
2300
2320
2340
2360
2380
2400
2420

ROP (min/ft) 8
Gamma (API) 150
Cal (in) 16

0
0
6

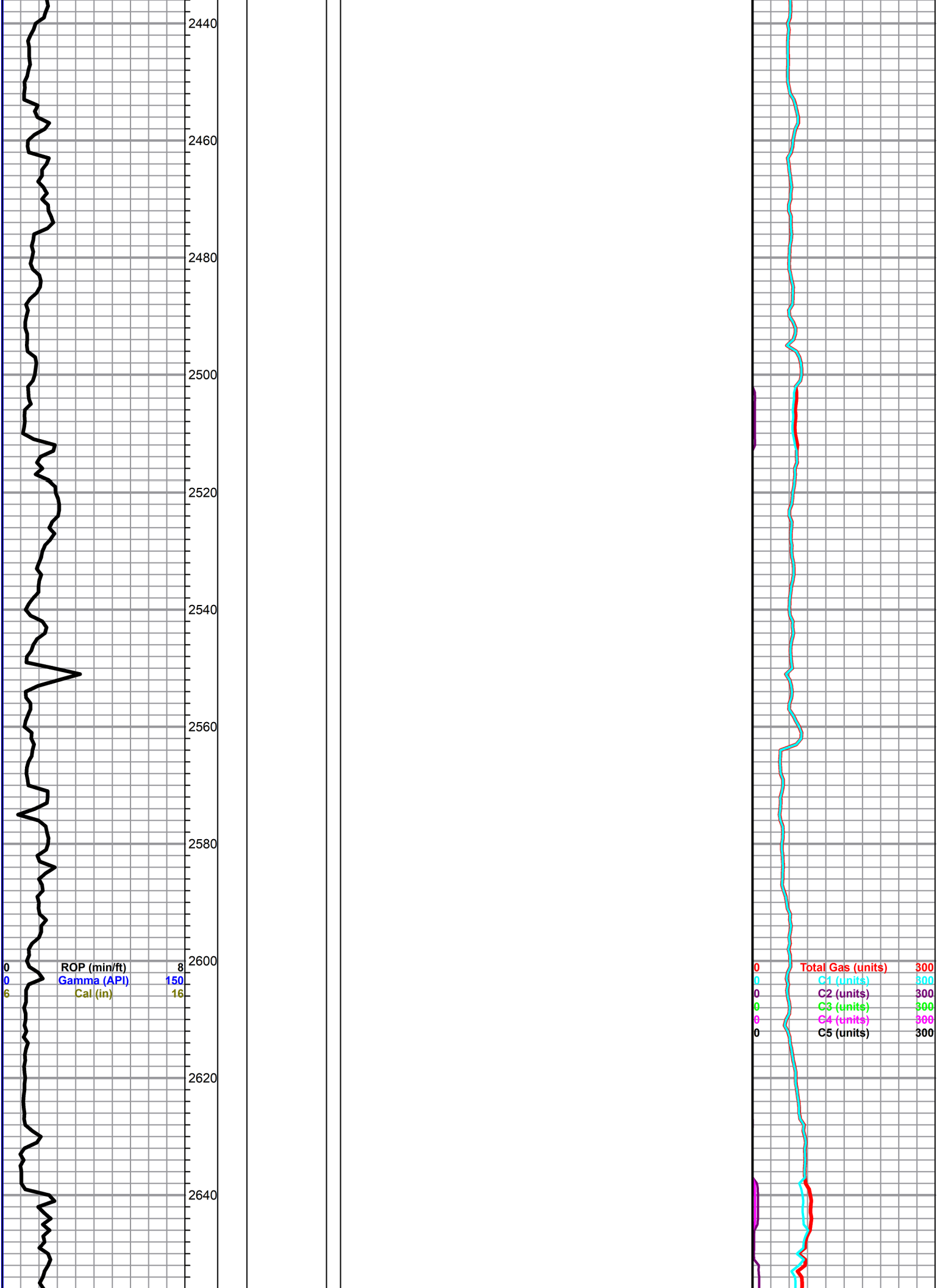
Total Gas (units) 300
C1 (units) 300
C2 (units) 300
C3 (units) 300
C4 (units) 300
C5 (units) 300

0
0
0
0
0
0

2440
2460
2480
2500
2520
2540
2560
2580
2600
2620
2640

0	ROP (min/ft)	8
0	Gamma (API)	150
6	Cal (in)	16

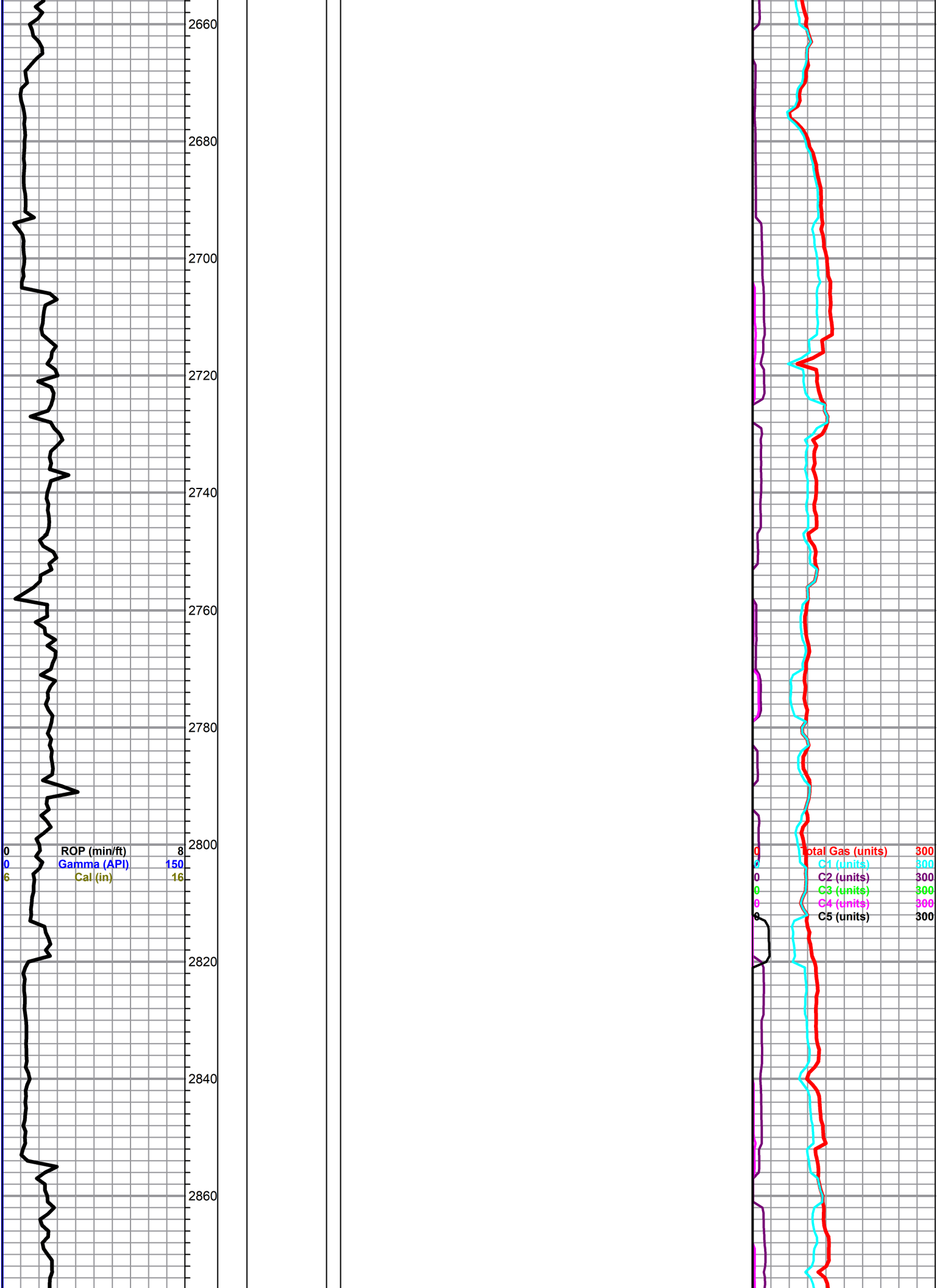
0	Total Gas (units)	300
0	C1 (units)	300
0	C2 (units)	300
0	C3 (units)	300
0	C4 (units)	300
0	C5 (units)	300



2660
2680
2700
2720
2740
2760
2780
2800
2820
2840
2860

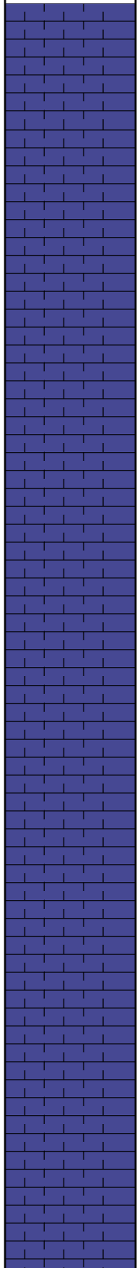
0 ROP (min/ft) 8
0 Gamma (API) 150
6 Cal (in) 16

0 total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
0 C5 (units) 300



2880
2900
2920
2940
2960
2980
3000
3020
3040
3060
3080

0 ROP (min/ft) 8
0 Gamma (API) 150
6 Cal (in) 16



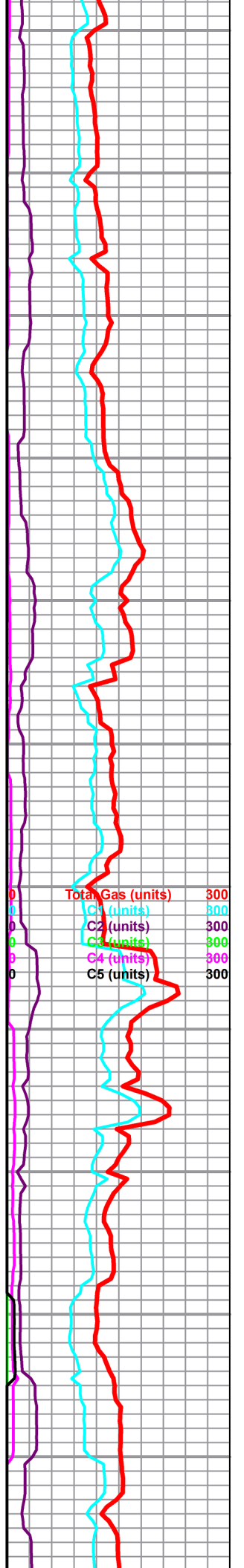
Limestone,white,gray,granular,fossiliferous in part,scattered porosity, no stain ,no free oil no odor,poor flu

as above

Limestone,gray,microcrystalline ,chalky .poor porosity

aa trace white chert

0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
0 C5 (units) 300



3100
3120
3140
3160
3180
3200
3220
3240
3260
3280
3300

0 ROP (min/ft) 8
0 Gamma (API) 150
6 Cal (in) 16

Limestone,tan,granular,chalky

aa

Limestone,tan,gray,fossiliferous,chalky.poor visible porosity

as above

Limestone,tan,finely crytalline,granular,chalky,poor visible porosity,with Chalk..no shows

Limestone,tan,finely crystalline,slightly cherty,few dolomitic..no shows

aa, trace Chert ,white,boney

HEEBNER 3285(-1465)

Shale,black,carboniferous

TORONTO 3301(-1481)

Limestone,tan,finely crystalline,granular,dolomitic in part,poorly developed porosity, no shows

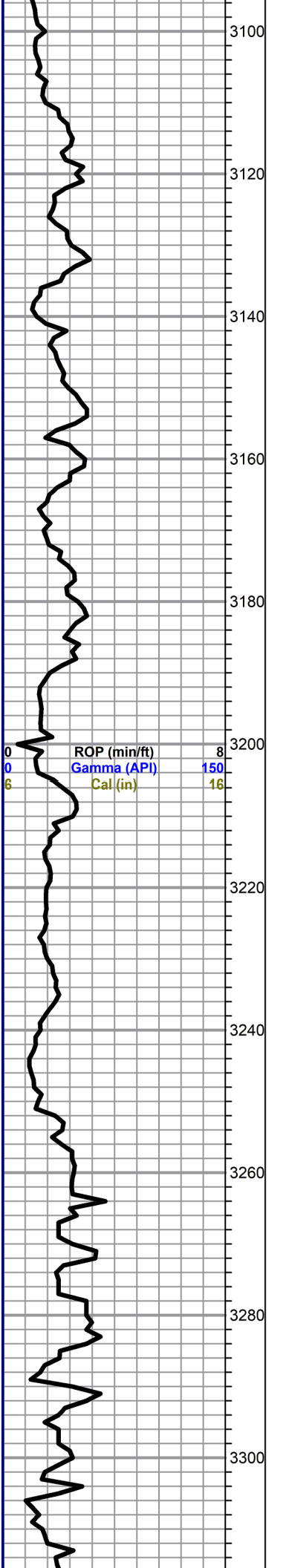
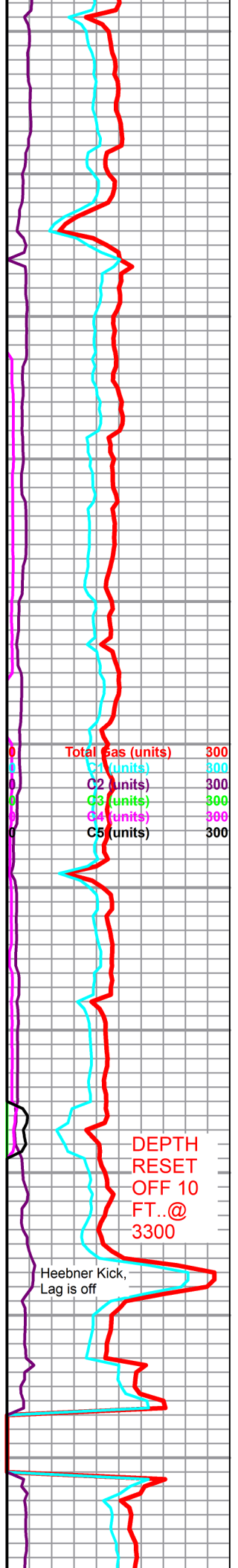
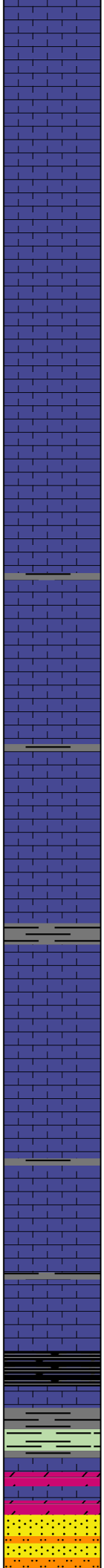
DOUGLAS 3316

Sand,gray,grayish green,very fine

Total Gas (units) 300
C1 (units) 300
C2 (units) 300
C3 (units) 300
C4 (units) 300
C5 (units) 300

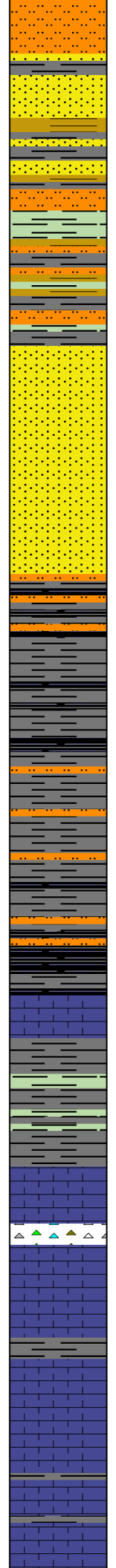
DEPTH
RESET
OFF 10
FT..@
3300

Heebner Kick,
Lag is off



3320
3340
3360
3380
3400
3420
3440
3460
3480
3500
3520

ROP (min/ft) 8
Gamma (API) 150
Cal (in) 16



grained,subbroounded,micaeous, friable fair intergranular porosity no shows

sand,as above wiyh shale,grayish green ,gray, silty

as above trace pyrite

DOUGLAS SAND 3361

Sand,gray,grayish green,very fine grained,subrounded,fair to good sorting,friable,fair to good intergranular porosity micaeous,(barren)

aa

Shale,varied shades of gray,soft

aa

Trace silty shale/sand as above

increase dark gray shales

BROWN LIME 3455(-1635)

Limestone,tan,gray,fine crytalline, cherty ..dense

Shale,gray,dark gray,soft (Washes gray)

LANSING 3480(-1660)

Limestone,gray,white,fine crystalline,chalky,poor porosity

as above trace white chert

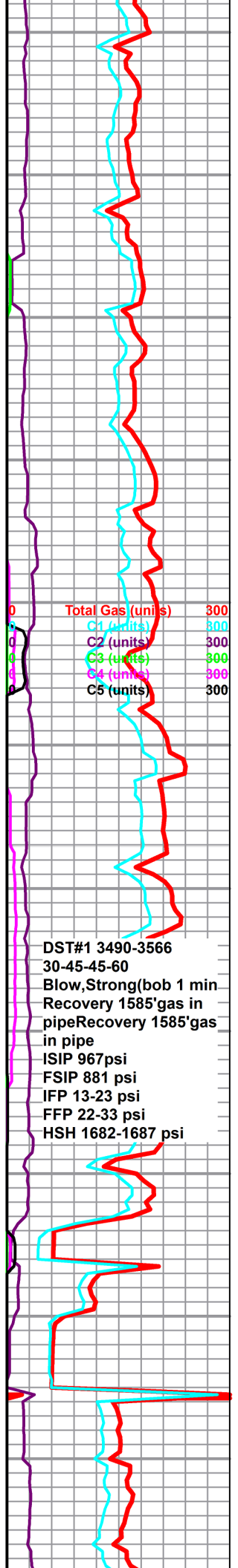
Limestone,white and gray,fine and medium crystalline,fossilifeous in part,fair pinpoint to fine vuggy type porosity,spotty black and brown stain,trace of free oil and questionable odor

Limestone,tan,brown,fossilifeous dense,poor porosity

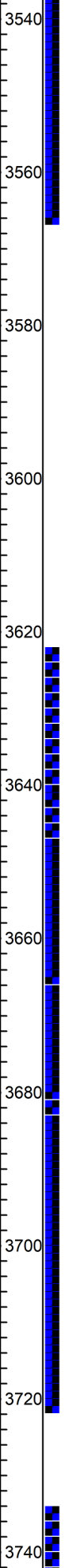
Limestone,gray,tan,finely crystalline,slightly cherty,trace brown and light brown stain no show of free oil

Total Gas (units) 300
C1 (units) 300
C2 (units) 300
C3 (units) 300
C4 (units) 300
C5 (units) 300

DST#1 3490-3566
30-45-45-60
Blow,Strong(bob 1 min
Recovery 1585'gas in
pipeRecovery 1585'gas
in pipe
ISIP 967psi
FSIP 881 psi
IFP 13-23 psi
FFP 22-33 psi
HSH 1682-1687 psi



and light brown stain, no show of free oil



ROP (min/ft) 8
Gamma (API) 150
Cal (in) 16

Limestone, gray, white, oolitic, scattered fine vuggy porosity, poor stain, trace of free oil and faint odor

Limestone, gray, tan, fine crystalline, cherty (dense) abundant Chert, gray, black, coal black, brown, boney

Limestone, white, tan, gray, fine and medium crystalline, fossiliferous, scattered porosity, no stain, no show and questionable odor

Limestone, tan, bioclastic, slightly cherty, poor porosity

Limestone, white, gray, finely crystalline, chalky, few cherty, poor visible porosity no shows

Limestone, white, gray, chalky with Chert, gray and white, fossiliferous, boney

Limestone, white, gray, oomoldic, fair to good oomoldic porosity, trace, black and brown to gray stain, show of free oil and faint odor

Limestone, tan, finely crystalline, fossiliferous, fair porosity, brown/golden brown stain, trace of free oil and faint odor

Limestone, gray, oomoldic, poor to fair oomoldic porosity, spotty brown stain, trace of free oil and questionable odor

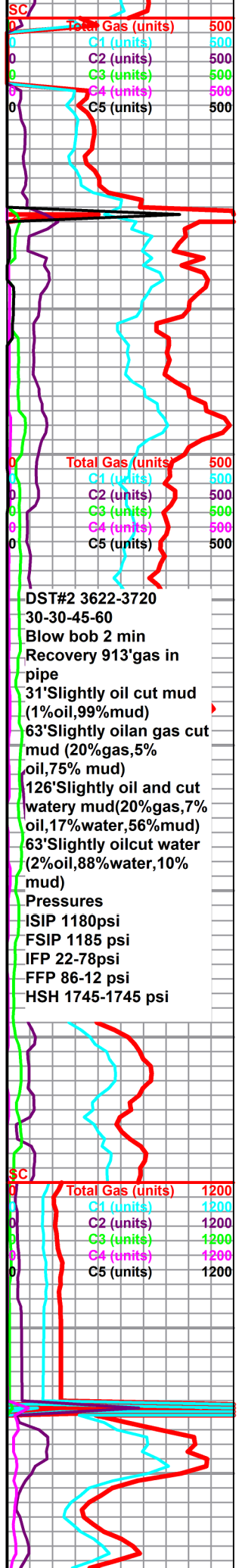
Limestone, tan, gray, chalky, dense

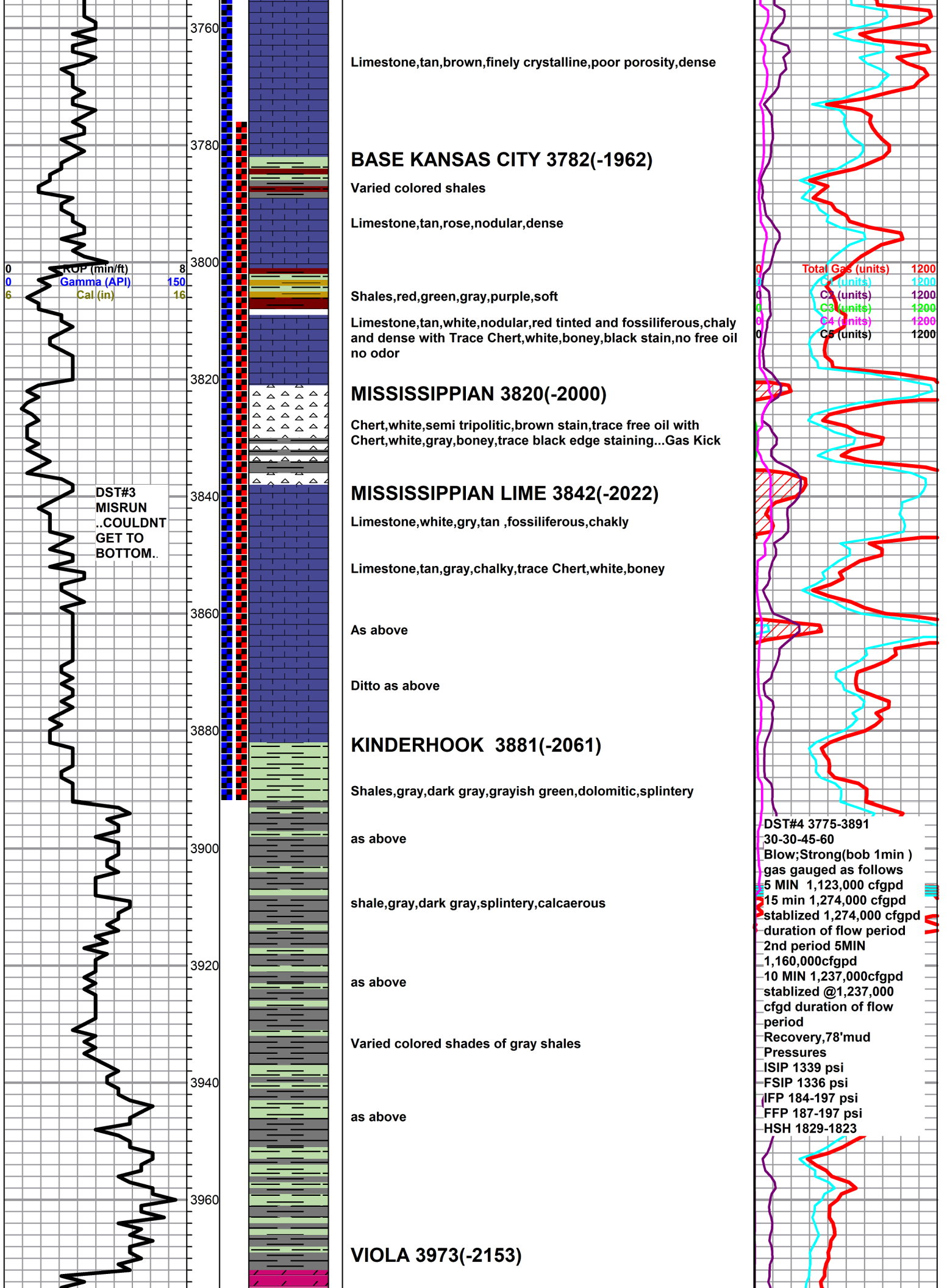
Shale, black carbonaceous, with soft gray shale

Limestone, as above, dense

as above

Limestone, gray, tan, fossiliferous, scattered fossil cast and intercrystalline type porosity, gray and black to brown stain and slight saturation, trace of free oil and faint odor





Limestone, tan, brown, finely crystalline, poor porosity, dense

BASE KANSAS CITY 3782(-1962)

Varied colored shales

Limestone, tan, rose, nodular, dense

Shales, red, green, gray, purple, soft

Limestone, tan, white, nodular, red tinted and fossiliferous, chaly and dense with Trace Chert, white, boney, black stain, no free oil no odor

MISSISSIPPIAN 3820(-2000)

Chert, white, semi tripolitic, brown stain, trace free oil with Chert, white, gray, boney, trace black edge staining... Gas Kick

MISSISSIPPIAN LIME 3842(-2022)

Limestone, white, gry, tan, fossiliferous, chakly

Limestone, tan, gray, chalky, trace Chert, white, boney

As above

Ditto as above

KINDERHOOK 3881(-2061)

Shales, gray, dark gray, grayish green, dolomitic, splintery

as above

shale, gray, dark gray, splintery, calcaerous

as above

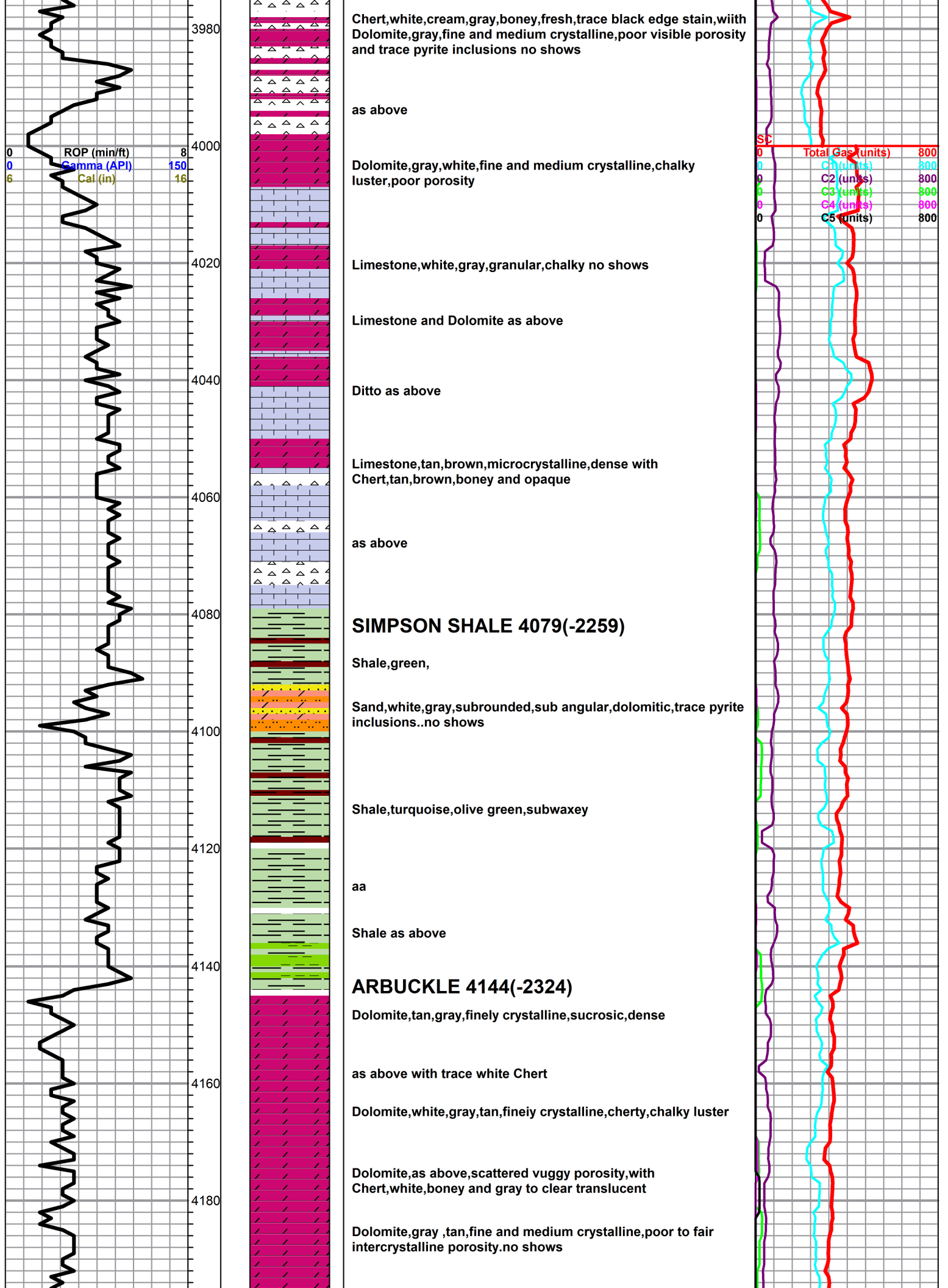
Varied colored shades of gray shales

as above

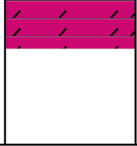
VIOLA 3973(-2153)

Total Gas (units)	1200
C1 (units)	1200
C2 (units)	1200
C3 (units)	1200
C4 (units)	1200
C5 (units)	1200

DST#4 3775-3891
 Blow; Strong (bob 1min)
 gas gauged as follows
 5 MIN 1,123,000 cfgpd
 15 min 1,274,000 cfgpd
 stabilized 1,274,000 cfgpd
 duration of flow period
 2nd period 5MIN
 1,160,000 cfgpd
 10 MIN 1,237,000 cfgpd
 stabilized @1,237,000 cfgpd
 duration of flow period
 Recovery, 78' mud
 Pressures
 ISIP 1339 psi
 FSIP 1336 psi
 IFP 184-197 psi
 FFP 187-197 psi
 HSH 1829-1823



0	ROP (min/ft)	8	4200
0	Gamma (API)	150	
6	Cal. (in)	16	



ROTARY TOTAL DEPTH 4200

0	Total Gas (units)	800
0	C1 (units)	800
0	C2 (units)	800
0	C3 (units)	800
0	C4 (units)	800



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #1 **Formation: Land B** **Test Interval: 3490 - 3566'** **Total Depth: 3566'**
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Electronic Volume Estimate:
1515'

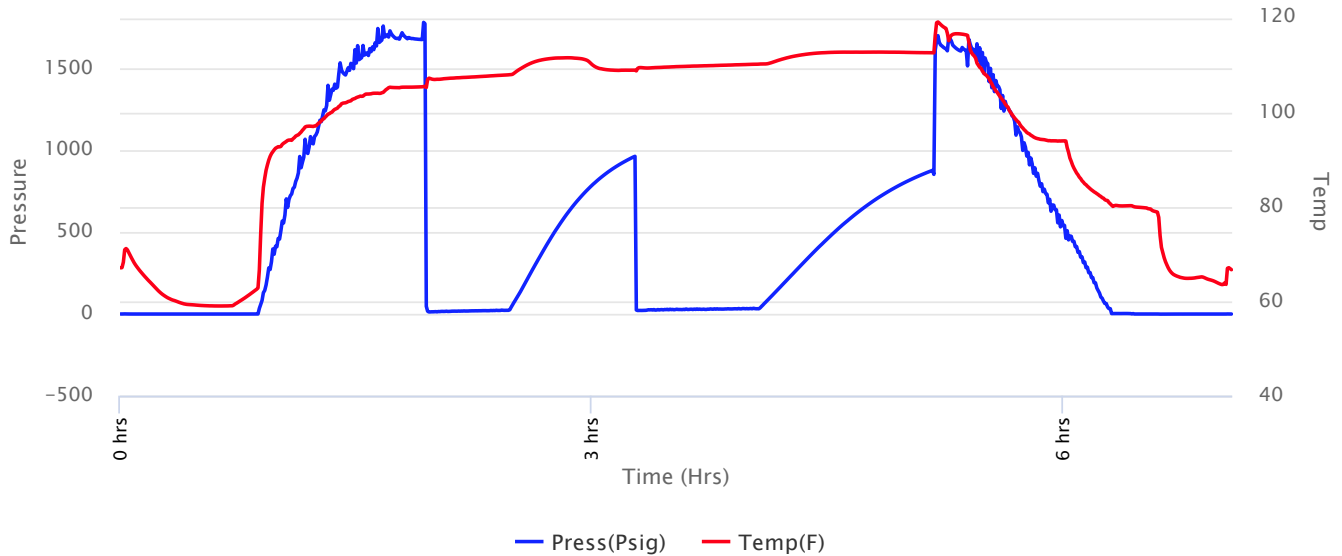
1st Open
Minutes: 30
Current Reading:
90" at 30 min
Max Reading: 90"

1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 3.7"

2nd Open
Minutes: 45
Current Reading:
92.1" at 45 min
Max Reading: 92.1"

2nd Close
Minutes: 60
Current Reading:
0" at 60 min
Max Reading: 5"

Inside Recorder





Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
04
 2021

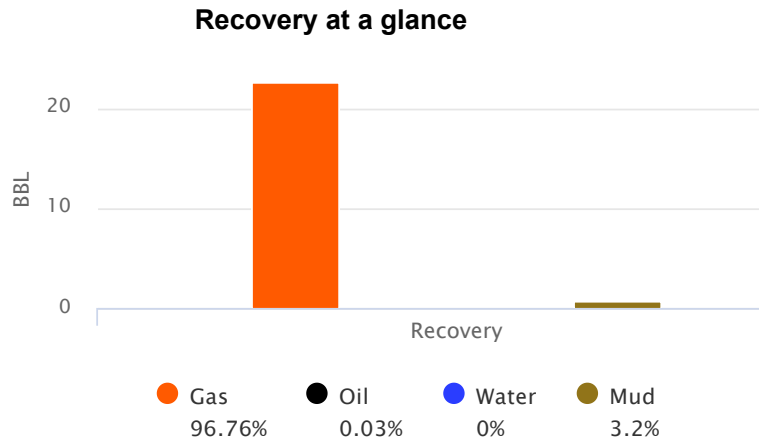
DST #1 **Formation: Land B** **Test Interval: 3490 - 3566'** **Total Depth: 3566'**
 Time On: 01:45 10/04 Time Off: 08:36 10/04
 Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1585	22.55455	G	100	0	0	0
53	0.75419	SLOCM	0	1	0	99

Total Recovered: 1638 ft
 Total Barrels Recovered: 23.30874

Reversed Out
 NO

Initial Hydrostatic Pressure	1682	PSI
Initial Flow	13 to 23	PSI
Initial Closed in Pressure	967	PSI
Final Flow Pressure	22 to 33	PSI
Final Closed in Pressure	881	PSI
Final Hydrostatic Pressure	1687	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	8.9	%



GIP cubic foot volume: 126.63252



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
04
2021

DST #1 Formation: Land B Test Interval: 3490 - Total Depth: 3566'
3566'
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 1 minute.

1st Close: 3 3/4 inch blow Back

2nd Open: BOB Instantly

2nd Close: 4 1/4 inch blow back

REMARKS:

Tool Sample: 10% Gas 2% Oil 0% Water 88% Mud



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #1 Formation: Land B Test Interval: 3490 - 3566' Total Depth: 3566'
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Down Hole Makeup

Heads Up: 24.39 FT	Packer 1: 3484.75 FT
Drill Pipe: 3488.98 FT <i>ID-3 1/2</i>	Packer 2: 3489.75 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3476.75 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3559 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 76.25	Surface Choke: 1"
<u>Anchor Makeup</u>	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): 63.75 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
04
2021

DST #1 Formation: Land B Test Interval: 3490 - Total Depth: 3566'
3566'
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Mud Properties

Mud Type: Chem Weight: 9.5 Viscosity: 86 Filtrate: 8.8 Chlorides: 5000 ppm



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #1 Formation: Land B Test Interval: 3490 - 3566' Total Depth: 3566'
Time On: 01:45 10/04 Time Off: 08:36 10/04
Time On Bottom: 03:37 10/04 Time Off Bottom: 06:37 10/04

Gas Volume Report

1st Open

2nd Open

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

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



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

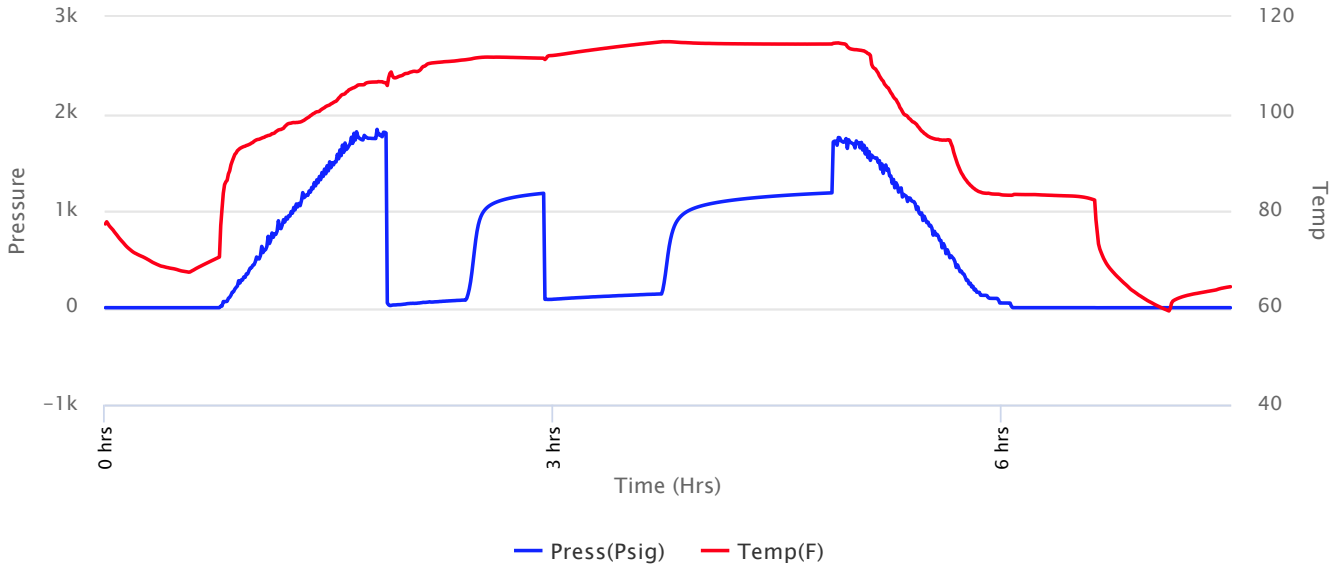
DATE
October
04
2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
Time On: 20:54 10/04 Time Off: 04:14 10/05
Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

Electronic Volume Estimate:
1450'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: 108.4" at 30 min	Current Reading: 0" at 30 min	Current Reading: 50.3" at 45 min	Current Reading: 5" at 60 min
Max Reading: 108.4"	Max Reading: 3.4"	Max Reading: 50.3"	Max Reading: 10.2"

Inside Recorder





Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
04
 2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
 Time On: 20:54 10/04 Time Off: 04:14 10/05
 Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

Recovered

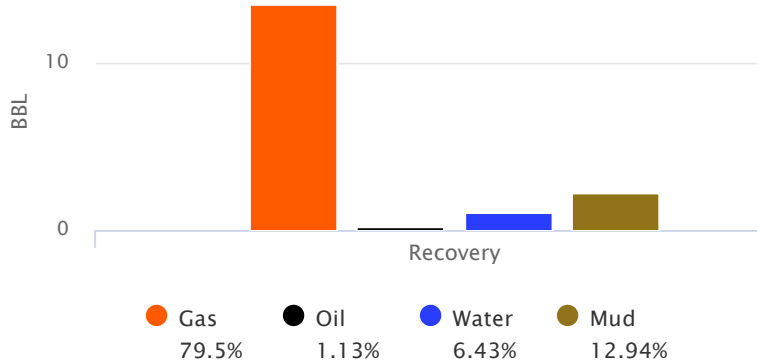
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
913	12.99199	G	100	0	0	0
31	0.44113	SLOCM	0	1	0	99
63	0.89649	SLOCSLWCGCM	20	5	0	75
126	1.79298	SLOCSLWCGCM	20	7	17	56
63	0.89649	SLOCSLMCW	0	2	88	10

Total Recovered: 1196 ft
 Total Barrels Recovered: 17.01908

Reversed Out
 NO

Initial Hydrostatic Pressure	1745	PSI
Initial Flow	22 to 78	PSI
Initial Closed in Pressure	1180	PSI
Final Flow Pressure	86 to 142	PSI
Final Closed in Pressure	1185	PSI
Final Hydrostatic Pressure	1745	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 75.96353



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
04
2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
Time On: 20:54 10/04 Time Off: 04:14 10/05
Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

BUCKET MEASUREMENT:

1st Open: 1/2" Blow. BOB in 2 minutes
1st Close: 3 1/2 inch Blow Back
2nd Open: 2" Blow. BOB in 4 minutes
2nd Close: 10 1/4 inch Blow Back

REMARKS:

Tool Sample: 0% Gas 1% Oil 99% Water 0% Mud

Ph: 7

Measured RW: .2 @ 65 degrees °F

RW at Formation Temp: 0.118 @ 115 °F

Chlorides: 100000 ppm



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
Time On: 20:54 10/04 Time Off: 04:14 10/05
Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

Down Hole Makeup

Heads Up: 17.98 FT	Packer 1: 3616.75 FT
Drill Pipe: 3614.57 FT <i>ID-3 1/2</i>	Packer 2: 3621.75 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3608.75 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3691 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 98.25	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 63.75 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 30 FT <i>4 1/2-FH</i>	



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
04
2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
Time On: 20:54 10/04 Time Off: 04:14 10/05
Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

Mud Properties

Mud Type: Chem **Weight:** 9 r **Viscosity:** 57 **Filtrate:** 10.8 **Chlorides:** 6500 ppm



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
04
2021

DST #2 **Formation: H-J** **Test Interval: 3622 - 3720'** **Total Depth: 3720'**
Time On: 20:54 10/04 Time Off: 04:14 10/05
Time On Bottom: 22:46 10/04 Time Off Bottom: 01:31 10/05

Gas Volume Report

1st Open

2nd Open

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

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



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
05
 2021

DST #3 **Formation: Lowe KC/ Miss** **Test Interval: 3734 - 3890'** **Total Depth: 3890'**
 Time On: 17:15 10/05 Time Off: 21:31 10/05
 Time On Bottom: 19:05 10/05 Time Off Bottom: 19:25 10/05

Recovered

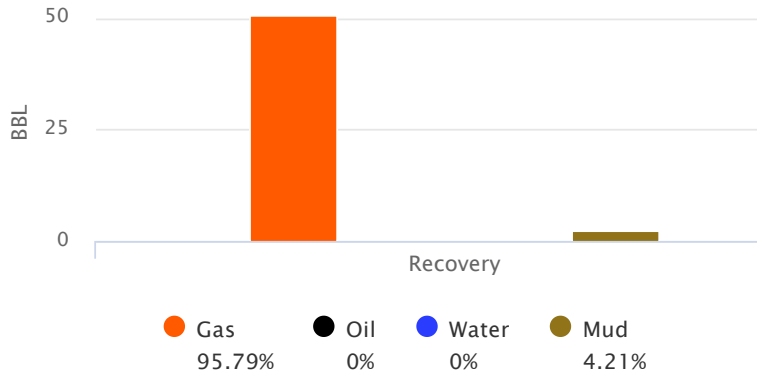
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3553	50.55919	G	100	0	0	0
156	2.21988	M	0	0	0	100

Total Recovered: 3709 ft
 Total Barrels Recovered: 52.77907

Reversed Out
 NO

Initial Hydrostatic Pressure	1806	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1808	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 283.86457



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
05
2021

DST #3	Formation: Lowe KC/ Miss	Test Interval: 3734 - 3890'	Total Depth: 3890'
	Time On: 17:15 10/05	Time Off: 21:31 10/05	
	Time On Bottom: 19:05 10/05	Time Off Bottom: 19:25 10/05	

BUCKET MEASUREMENT:

1st Open: 5" Blow. BOB in 2 minutes.

REMARKS:

Pulled test do to fill about got stuck, didn't get a chance to gauge gas do to sliding the whole test.

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

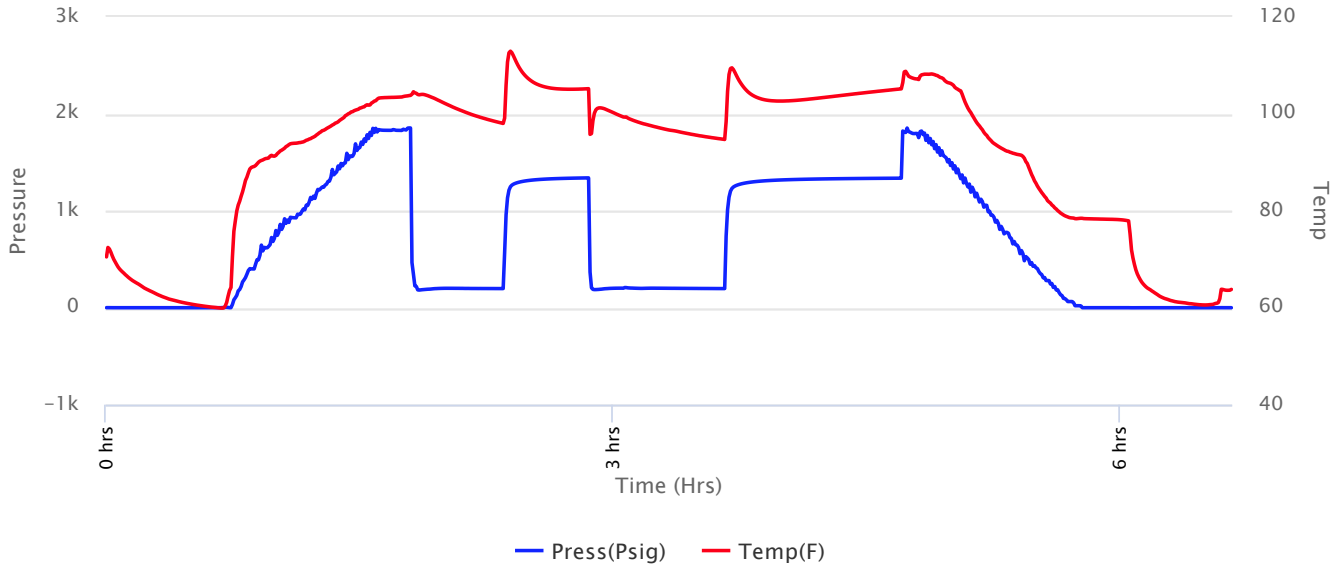
DATE
October
06
2021

DST #4 **Formation: LKC/Miss** **Test Interval: 3775 - 3891'** **Total Depth: 3891'**
Time On: 03:18 10/06 Time Off: 09:46 10/06
Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

Electronic Volume Estimate:
N/A

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 45	Minutes: 60
Current Reading: GTS" at 30 min	Current Reading: 1.4" at 30 min	Current Reading: GTS" at 45 min	Current Reading: 0" at 60 min
Max Reading: GTS"	Max Reading: 1.4"	Max Reading: GTS"	Max Reading: 0"

Inside Recorder





Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
06
 2021

DST #4 **Formation: LKC/Miss** **Test Interval: 3775 - 3891'** **Total Depth: 3891'**
 Time On: 03:18 10/06 Time Off: 09:46 10/06
 Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

Recovered

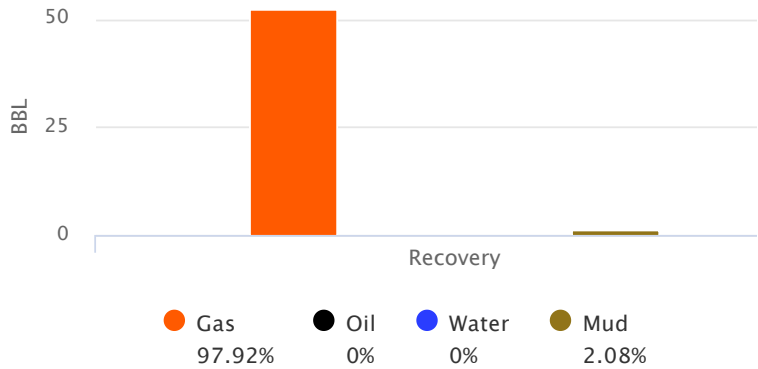
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3671	52.23833	G	100	0	0	0
78	1.10994	M	0	0	0	100

Total Recovered: 3749 ft
 Total Barrels Recovered: 53.34827

Reversed Out
 NO

Initial Hydrostatic Pressure	1829	PSI
Initial Flow	184 to 197	PSI
Initial Closed in Pressure	1339	PSI
Final Flow Pressure	187 to 197	PSI
Final Closed in Pressure	1336	PSI
Final Hydrostatic Pressure	1823	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance



GIP cubic foot volume: 293.2921



**Company: H & D Exploration,
LLC**

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling,
Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery &
pressures

DATE
October
06
2021

DST #4	Formation: LKC/Miss	Test Interval: 3775 - 3891'	Total Depth: 3891'
	Time On: 03:18 10/06	Time Off: 09:46 10/06	
	Time On Bottom: 05:03 10/06	Time Off Bottom: 07:48 10/06	

BUCKET MEASUREMENT:

1st Open: 3" Blow. BOB in 1 minute
1st Close: 1 1/2 Blow Back
2nd Open: BOB Instantly/ Gauge Gas
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
County: STAFFORD
State: Kanas
Drilling Contractor: Southwind Drilling, Inc - Rig 3
Elevation: 1810 GL
Field Name: Wildcat
Pool: Pool Ext
Job Number: 518
API #: 15-185-24090-00-00

Operation:
Uploading recovery & pressures

DATE
October
06
2021

DST #4 **Formation:** LKC/Miss **Test Interval:** 3775 - 3891' **Total Depth:** 3891'
Time On: 03:18 10/06 Time Off: 09:46 10/06
Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

Down Hole Makeup

Heads Up: 22.3 FT	Packer 1: 3770.08 FT
Drill Pipe: 3772.22 FT <i>ID-3 1/2</i>	Packer 2: 3775.08 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3762.08 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3875 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 115.92	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 94.42 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 17 FT <i>4 1/2-FH</i>	



Company: H & D Exploration, LLC

Lease: Gamble #1

SEC: 21 TWN: 25S RNG: 11W
 County: STAFFORD
 State: Kanas
 Drilling Contractor: Southwind Drilling, Inc - Rig 3
 Elevation: 1810 GL
 Field Name: Wildcat
 Pool: Pool Ext
 Job Number: 518
 API #: 15-185-24090-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
06
 2021

DST #4 **Formation: LKC/Miss** **Test Interval: 3775 - 3891'** **Total Depth: 3891'**
 Time On: 03:18 10/06 Time Off: 09:46 10/06
 Time On Bottom: 05:03 10/06 Time Off Bottom: 07:48 10/06

Gas Volume Report

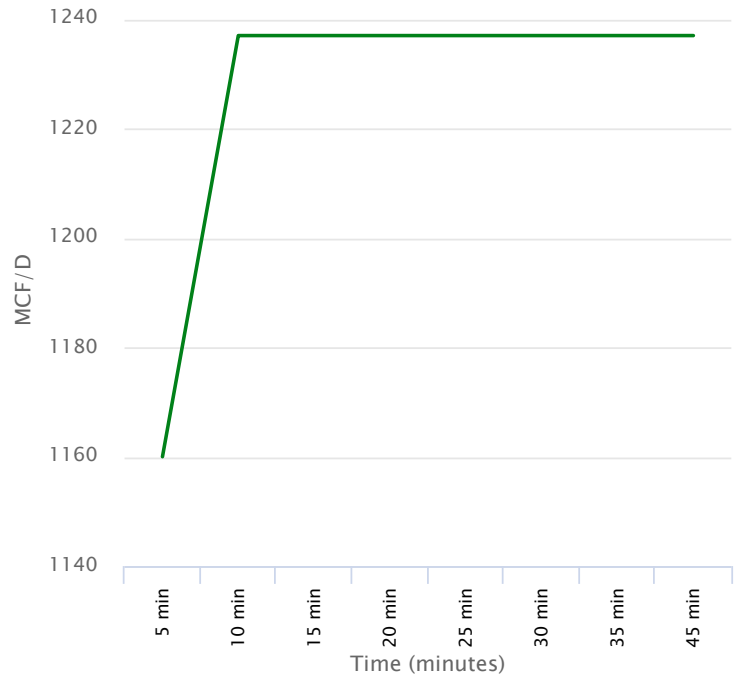
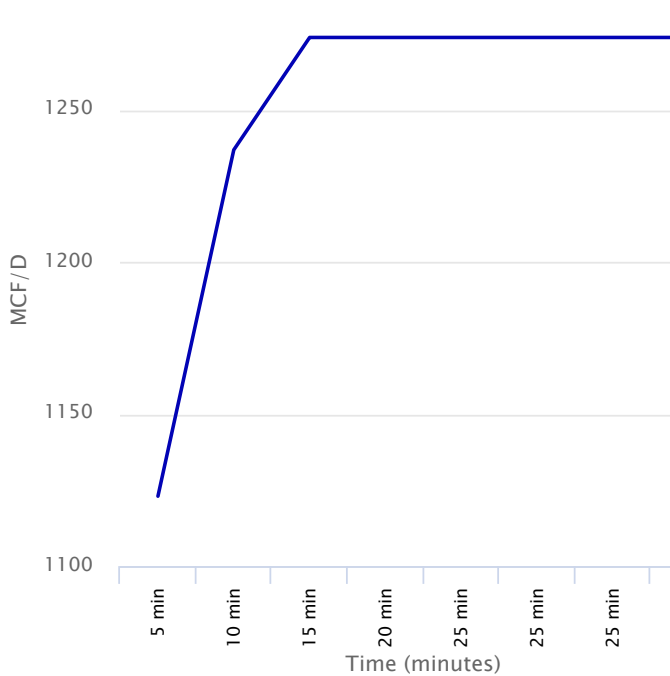
Remarks: Caught gas sample 5 minutes into first opening.

1st Open

Time	Orifice	PSI	MCF/D
5	1.50	8.0	1123
10	1.50	9.5	1237
15	1.50	10	1274
20	1.50	10	1274
25	1.50	10	1274
25	1.50	10	1274
25	1.50	10	1274
30	1.50	10	1274

2nd Open

Time	Orifice	PSI	MCF/D
5	1.50	8.5	1160
10	1.50	9.5	1237
15	1.50	9.5	1237
20	1.50	9.5	1237
25	1.50	9.5	1237
30	1.50	9.5	1237
35	1.50	9.5	1237
45	1.50	9.5	1237



QUALITY OILWELL CEMENTING, INC.

Phone 785-483-1071
Cell 785-324-1041

Federal Tax I.D.# 20-2886107
Home Office P.O. Box 32 Russell, KS 67665

No. 2377

Date	9-30-21	Sec.	21	Twp.	25	Range	11	County	Stafford	State	KS	On Location		Finish	5:30 AM
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Lease ~~Southwind~~ **Gamble** Well No. **1** Location **28 1/4 Hwy. 50 E to 80RD STO 60RD**
 Contractor **Southwind** Owner **H E to 120RD 1/2S W into**

Type Job **Surface** To Quality Oilwell Cementing, Inc.
 Hole Size **12 1/4** T.D. **625** You are hereby requested to rent cementing equipment and furnish
 Csg. **8 5/8** Depth **624** cementer and helper to assist owner or contractor to do work as listed.

Tbg. Size _____ Depth _____ Charge To **H&D**
 Tool _____ Depth _____ Street _____
 Cement Left in Csg. **30'** Shoe Joint **30'** City _____ State _____

Meas Line _____ Displace **36 BL** The above was done to satisfaction and supervision of owner agent or contractor.
 Cement Amount Ordered **450 60/40 4 1/2 CL 2 1/2 60/2**
1/2 1/2 1/2

EQUIPMENT

Pumptrk	17	No.	Cementer	Craig	Common	270
			Helper		Poz. Mix	180
Bulktrk		No.	Driver	David	Gel.	0
			Driver		Calcium	20
Bulktrk	21	No.	Driver	Jordan	Hulls	
			Driver		Salt	

JOB SERVICES & REMARKS

Remarks: _____
 Rat Hole _____
 Mouse Hole _____
 Centralizers _____
 Baskets _____
 D/V or Port Collar _____
8 5/8 on bottom Est. Circulation.
mix 450 60/40 Displace Plug
Cement Circulated!

FLOAT EQUIPMENT

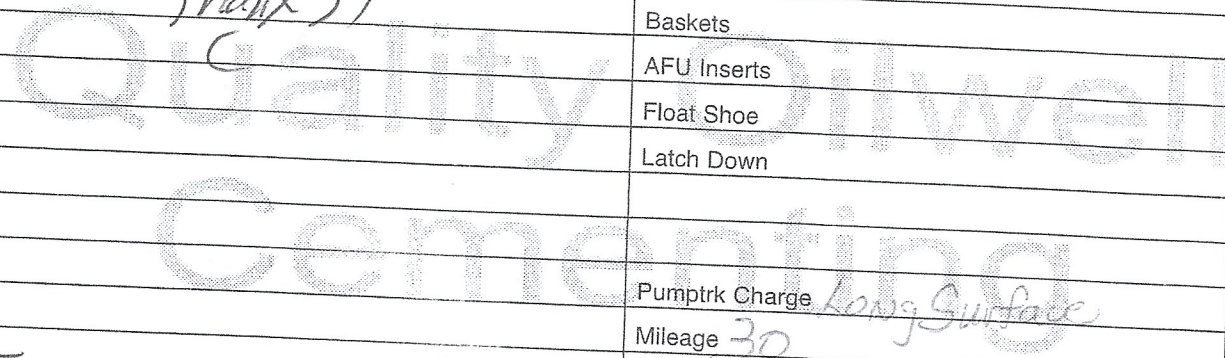
Guide Shoe **8 5/8 Rubber Plug**
 Centralizer _____
 Baskets _____
 AFU Inserts _____
 Float Shoe _____
 Latch Down _____

Pumptrk Charge **Long Surface**
 Mileage **30**

Frank J. Row
 Signature

Thanks

Tax _____
 Discount _____
 Total Charge _____



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2560

Date	10-8-21	Sec.	21	Twp.	25	Range	11	County	Stafford	State	Ks	On Location		Finish	
------	---------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	--

Lease Gamble Location Stafford 654E 1/2 S
Well No. 1

Contractor Southwind Owner
Type Job Long string To Quality Oilwell Cementing, Inc.
Hole Size 7 7/8 You are hereby requested to rent cementing equipment and furnish
Csg. 5 1/2 10 3/4 T.D. 4200 cementer and helper to assist owner or contractor to do work as listed.

Charge To HAD Expl
Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 14 Shoe Joint 14 Cement Amount Ordered 250M 10% Salt

Meas Line Displace 99.4 5% SW 60% LOR. 5% Gel

EQUIPMENT

Pumptrk	17	No.	Cementer		Common	250
			Helper	<u>Bill</u>		
Bulktrk		No.	Driver	<u>Craig</u>	Poz. Mix	
			Driver		Gel.	
Bulktrk	14	No.	Driver	<u>Jordan</u>	Calcium	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>20</u>	Salt <u>19</u>
Mouse Hole <u>30</u>	Flowseal
Centralizers	Kol-Seal <u>1025 #</u>
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>pipe set 4192</u>	Sand
<u>Shoe 14</u>	Handling <u>280</u>
<u>Insert 4178</u>	Mileage

FLOAT EQUIPMENT

<u>Cent of 200M</u>	Guide Shoe
<u>pump plug w/ 99 1/2 bds</u>	Centralizer <u>47</u>
<u>Land plug 2 1200</u>	Baskets <u>1</u>
<u>wait 15 min Release</u>	AFU Inserts
<u>and hold</u>	Float Shoe <u>1</u>
	Latch Down <u>1</u>

Pumptrk Charge prod string
Mileage 30

X Signature

Thanks

Tax	
Discount	
Total Charge	