



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1178045
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1178045

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Julian 2
Doc ID	1178045

Tops

Name	Top	Datum
Heebner	3413	-1539
Toronto	3430	-1556
Douglas	3452	-1578
Brown Lime	3577	-1703
Lansing	3597	-1723
Base KC	3893	-2019
Mississippi	3960	-2086
Kinderhook	4012	-2138
Viola	4040	-2166
Simpson Shale	4124	-2250
Simpson Sand	4158	-2284
Arbuckle	4202	-2328
TD	4586	-2712

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 2

Well Name: Julian #2
 Location: 2310' FNL & 600'FWL
 Section: 28-28S-12W
 County: Stefford
 APT: 15-185-23640-00-00

Elevation: GL 1665'
 KB 1674'
 Est. TD: 4300'
 Conductor: N/A

Rig No. 2 (Pusher Bill Sanders) 620 617-0704
 Rig No. 2 (Doghouse) 620 617-5921
 Southwind Drilling Office 620 564-3800

Surface Casing: Ran 17 joints of new 2 3/8", 8 5/8" casing, Tally @ 727', Set @ 701', used 350 sacks total, 200 sacks of 3%cc, 1/4# Gilsontite and 150 sacks of Common. 2% cc, 1/2# Cellfloc, cement circulated, by Basic (Ticket #9327), plug down @ 11:30 am on 11.23.13.

Production Info: Ran 99 joints of new 5 1/2" casing, Tally @ 4288', Set @ 4276', used 200 sacks of 90/40 Poz, 1/4# Defoamer, 16% salt, 3/4 CFR, 5# Gilsontite, 30 sacks for Rat hole, 20 sacks for Mouse hole, cemented, by Basic (Ticket #9554), Job complete @ 6:00 pm on 12.04.13.



Rotary Total Depth: 4586'
 Log Total Depth:

Geologist: Jim Musgrove

7:00 A.M. Depth: 4586'

7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	11/22/13	11/23/13	11/24/13	11/25/13	11/26/13	11/27/13	11/28/13	11/29/13	11/30/13	12/01/13	12/02/13	12/03/13	12/04/13	12/05/13	Total
11/22/2013 @ 7:45 AM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	
Total Depth (7:00am)	0	702	865	2040	2735	3012	3012	3370	3370	3815	4030	4265	4575	4586	4586
Daily Progress	702	263	1075	895	277	0	0	358	445	3815	4030	4265	4575	4586	
Fl. Per Hr.	108.00	95.64	87.19	42.12	44.32	#DIV/0!	#DIV/0!	37.68	29.87	18.70	18.18	23.65	11.00	#DIV/0!	41.80
Current Operation (7:00am)	Rig Up	Wiper Trip	Drilling	Drilling	Drilling	Repairs	Repairs	Holiday	Drilling	TOWB	TOWB	Drilling	Drilling	CPS	Drilling
Formation	Surface	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Mississippi	Mississippi	Arbuckle	Tear Down
Fuel Used (34.5 Gall/Inch)	241.50	241.50	448.50	414.00	224.25	0.00	0.00	241.50	414.00	378.50	345.00	378.50	276.00		3605.25
Survey (degrees & depth)	1" @ 702'								3/4" @ 3815'			1" @ 4280'			
Mud Info															
Mud Cost	\$0.00	\$439.80	\$1,222.00	\$3,027.45	\$1,103.75	\$0.00	\$0.00	\$1,890.70	\$733.50	\$929.75	\$0.00	\$847.35	\$0.00		\$9,903.90
Weight (# / Gal)										9.5	9.6	9.6			
Via (Funnel)										51	58	49			
Water Loss (cc)											11.6				
Bit #1															
Bit Make / Type	RT RR														
Bit Size	12 1/4														
Bit Hours	6.50														6.50
Bit #2															
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q			JZ HA20Q	JZ HA20Q						
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8			7 7/8	7 7/8						
Bit Hours		2.75	16.00	16.50	6.25			8.50	15.00						66.00
Bit #3															
Bit Make / Type										JZ HA20Q					
Bit Size										7 7/8					
Bit Hours										11.50					11.50
Bit #4															
Bit Make / Type											Reed S52	Reed S52			
Bit Size											7 7/8	7 7/8			
Bit Hours											12.25	0.50			12.75
Bit #5															
Bit Make / Type												Reed S52	Reed S52		
Bit Size												7 7/8	7 7/8		
Bit Hours												12.50	1.00		13.50
Bit Cumulative Hours	6.50	2.75	16.00	16.50	6.25	0.00	0.00	9.50	15.00	11.50	12.25	13.00	1.00	0.00	110.25
Weight on Bit (WOB)	10,000	15,000	25,000	25,000	25,000			30,000	35,000	35,000	35,000	35,000	35,000	35,000	
RPM	120	100	80	80	80			80	80	80	80	80	80	80	
Pump Pressure	500	600	600	600	600			750	600	650	650	650	650	650	
Drilling (Rotating) Hours	6.50	2.75	16.00	16.50	6.25	0.00	0.00	9.50	15.00	11.50	12.25	13.00	1.00	0.00	110.25
Daywork Hrs. (Operator's time)															
Rat Hole (> 75 Hrs)															0.00
Wait on Cement		12.00													12.00
Trip	1.00			0.75					1.25	5.75	5.75	3.00			17.50
Circulate		0.25							3.00	1.75	1.50	1.50	1.00		9.00
Tool										1.25	1.00				2.25
Testing										2.25	2.75				5.00
Clean Floor after DST															0.00
Logging												4.75			4.75
Wait on Leggers															0.00
LDDP & LDDC														4.00	4.00
Run Casing / Cement		3.50												3.75	7.25
Nipple Down / Jet Cellar														0.75	0.75
Set Slips														0.50	0.50
Billable Hours	1.00	15.75	0.00	0.75	0.00	0.00	0.00	0.00	4.25	11.00	11.00	9.25	10.00	0.00	63.00
Non-Billable Hours (Southwind's time)															
Rig Up / Rig Down	12.25							8.00							22.75
Rig down (Holiday)													4.50		24.00
Wait on Cement (if NC)															0.00
Drill Rat Hole (< 75 hrs)	0.50														0.50
Drill Plug		0.50													0.50
Circulate / Trip (Surface)	0.25	0.75													1.00
Rig Repair		3.50	1.00	3.50	15.25	24.00		0.50	1.25	0.50					49.50
Connections	2.75	0.50	2.75	2.00	0.75			1.25	1.25	0.50	0.50	1.00			13.25
Jet/Displace	0.50		1.00	0.50	1.25										4.00
Surveys	0.25								0.25	0.50		0.25			0.75
Rig Check		0.25	0.75	0.75	0.50			0.50	0.75	0.50	0.25				4.25
Plugged Bit			2.50												2.50
Trip (NB)								6.25	1.00						7.25
Lost Circulation (< 2 hrs)															0.00
Lay Down Kelly / RH															0.50
Non-Billable Hrs.	16.50	5.50	8.00	6.75	17.75	24.00	24.00	14.80	4.75	1.50	0.75	1.75	5.00	0.00	130.75
Footage Cost	\$ 10,179.00	\$ 3,813.50	\$ 15,987.50	\$ 10,077.50	\$ 4,016.50	\$ -	\$ -	\$ 5,191.00	\$ 6,452.50	\$ 3,117.50	\$ 3,407.50	\$ 4,495.00	\$ 159.50	\$ -	\$ 66,497.00
Daywork Cost	\$ 359.00	\$ 5,512.50	\$ -	\$ 292.50	\$ -	\$ -	\$ -	\$ -	\$ 1,487.50	\$ 3,850.00	\$ 3,850.00	\$ 3,237.50	\$ 3,500.00	\$ -	\$ 22,050.00
Combined Est. Cost*	\$ 10,529.00	\$ 9,326.00	\$ 15,987.50	\$ 10,340.00	\$ 4,016.50	\$ -	\$ -	\$ 5,191.00	\$ 7,940.00	\$ 6,967.50	\$ 7,257.50	\$ 7,732.50	\$ 3,659.50	\$ -	\$ 88,547.00

*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: 3735' - 3815'
 Recovery: 55' Mud
 Displaced @

DST #2 Info -
 Footage Interval: 3940' - 4030'
 Recovery: 2632' Gas In Pipe
 35' Mud

Anhydrite @

Displaced @



Musgrove

**PETROLEUM
CORPORATION**
Clafin, Kansas

COMPANY: H&D Exploration LLC

LEASE: Julian #2

FIELD: Taylorville

LOCATION: W2-Se-Sw-Nw (2310' FNL & 690' FWL)

SEC: 28 TWSP: 25s RGE: 12w

COUNTY: Stafford STATE: Kansas

KB: 1874 GL: 1865

API # 15-185-23840-00-00

CONTRACTOR: Southwind Drilling Company (Rig # 2)

Spud: 11/22/2013 Comp: 12/03/2013

RTD: 4586 LTD: 4284

Mud Up: 2800' Type Mud: Chemical was displaced

Samples Saved From: 3200' to RTD

Drilling Time Kept From: 3200' to RTD

Samples Examined From: 3200' to RTD

Geological Supervision From: 3200' to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 701'

Production Casing: 5 1/2" @ 4277'

Electronic Surveys: By Pioneer Energy Services(hit bridge @ 2558 no logs)

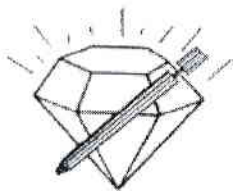
H&D Exploration, LLC

Well comparison sheet

DRILLING WELL Julian #2					COMPARISON WELL Julian #1			
1874 KB					1873 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log
Heebner	3413	-1539	3414	-1540	3402	-1529	-10	-11
Toronto	3430	-1556	3430	-1556	3420	-1547	-9	-9
Douglas	3452	-1578	3451	-1577	3442	-1569	-9	-8
Brown Lime	3577	-1703	3575	-1701	3560	-1687	-16	-14
Lansing	3597	-1723	3602	-1728	3581	-1708	-15	-20
Base KC	3893	-2019	3892	-2018	3886	-2013	-6	-5
Mississippi	3960	-2086	3960	-2086	3958	-2085	-1	-1
Kinderhook	4012	-2138	4014	-2140	4009	-2136	-2	-4
Viola	4040	-2166	4038	-2164	4031	-2158	-8	-6
Simpson Shale	4124	-2250	4128	-2254	4097	-2224	-26	-30
Simpson Sand	4158	-2284	4150	-2276	4130	-2257	-27	-19
Arbuckle	4202	-2328	4204	-2330	4187	-2314	-14	-16
Total Depth	4586	-2712	4284	-2410	4240	-2367		

NOTES

On the basis of the low structural position, lack of shows in the samples and drill stem test and after evaluating the electric logs, it was recommended by all parties involved in the Julian #2 to drill deeper in the Arbuckle and run 5 1/2' casing for a saltwater disposal well.



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: julian2dst1

TIME ON: 08:43
 TIME OFF: 15:32

Company H & D Exploration Lease & Well No. Julian #2
 Contractor Southwind Rig #2 Charge to H & D Exploration
 Elevation 1865 GL Formation Lan H-J Effective Pay -- Ft. Ticket No. S0417
 Date 12-1-13 Sec. 28 Twp. 25 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3735 ft. to 3815 ft. Total Depth 3815 ft.
 Packer Depth 3730 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Packer Depth 3735 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3723 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3801 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 44 Drill Collar Length -- ft. I.D. 2 1/4 in.
 Weight 9.4 Water Loss 11.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 irr
 Chlorides 10,400 P.P.M. Drill Pipe Length 3709 ft. I.D. 3 1/2 in
 Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in
 Did Well Flow? NO Reversed Out NO Anchor Length 80 (17a) ft. Size 4 1/2-FH irr
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 1/2" Blow- Built to 4 1/4" in 30 min **NOBB**
 2nd Open: 1/4" Blow- Built to 2 3/4" in 30 min **NOBB**

Recovered 55 ft of SLOWWCM 1% O 15% W 84% M

Recovered ft of

Recovered ft of

Recovered ft of PH: 7

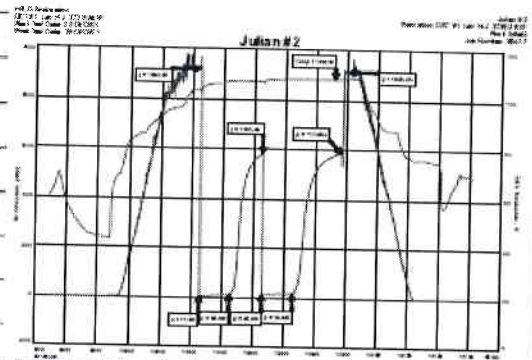
Recovered ft of RW: .18 @ 55 degrees F

Recovered ft of Chlorides: 43,000 ppm

Remarks:

Diesel in Bucket

Tool Sample: 2% O 34% W 64%M



Time Set Packer(s) 11:09 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 1:24 PM ^{A.M.}/_{P.M.} Maximum Temperature 108

Initial Hydrostatic Pressure..... (A) 1834 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 1165 P.S.I.
 Final Flow Period..... Minutes 30 (E) 30 P.S.I. to (F) 39 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 1175 P.S.I.
 Final Hydrostatic Pressure..... (H) 1825 P.S.I.



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: julian2dst2

TIME ON: 08:46
 TIME OFF: 15:13

Company H & D Exploration Lease & Well No. Julian #2
 Contractor Southwind Rig #2 Charge to H & D Exploration
 Elevation 1865 GL Formation Miss Effective Pay -- Ft. Ticket No. S0418
 Date 12-2-13 Sec. 28 Twp. 25 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3940 ft. to 4030 ft. Total Depth 4030 ft.
 Packer Depth 3935 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Packer Depth 3940 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Depth of Selective Zone Set

Top Recorder Depth (Inside) 3928 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4006 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length -- ft. I.D. 2 1/4 in.
 Weight 9.6 Water Loss 11.6 cc. Weight Pipe Length -- ft. I.D. 2 7/8 irr
 Chlorides 11,100 P.P.M. Drill Pipe Length 3914 ft. I.D. 3 1/2 in

Unions _____ P.P.M. Unit Pipe Length _____ ft. I.D. _____ in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-F in.

Did Well Flow? NO Reversed Out NO Anchor Length 90 (27a) ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 3" Blow- Built to BB in 1 min NOBB

2nd Open: BB Immediate NOBB

Recovered 2631 ft. of GIP

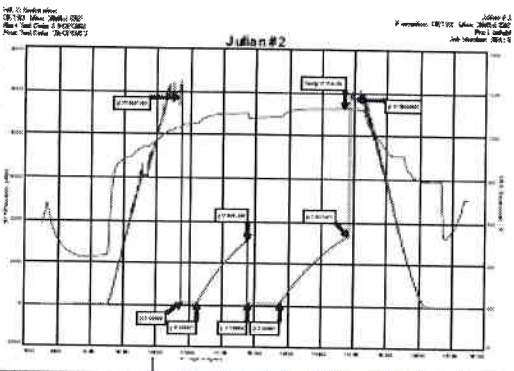
Recovered 35 ft. of Mud 100% M

Recovered 35 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____



Remarks: _____

Diesel in Bucket

Tool Sample: 100% M

Time Set Packer(s) 10:52 AM A.M. Time Started Off Bottom 1:22 PM P.M. Maximum Temperature 113

Initial Hydrostatic Pressure..... (A) 1942 P.S.I.

Initial Flow Period..... Minutes 15 (B) 22 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 621 P.S.I.

Final Flow Period..... Minutes 30 (E) 19 P.S.I. to (F) 24 P.S.I.

Final Closed In Period..... Minutes 60 (G) 671 P.S.I.

Final Hydrostatic Pressure..... (H) 1943 P.S.I.

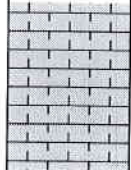
ROCK TYPES

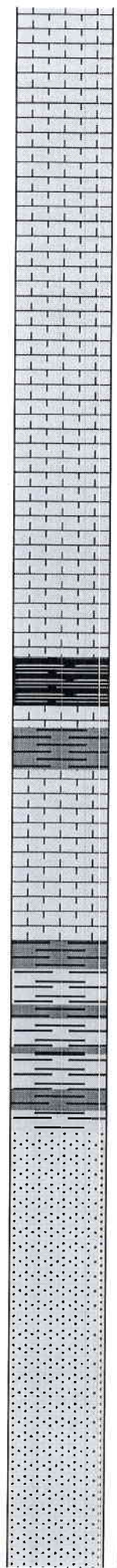
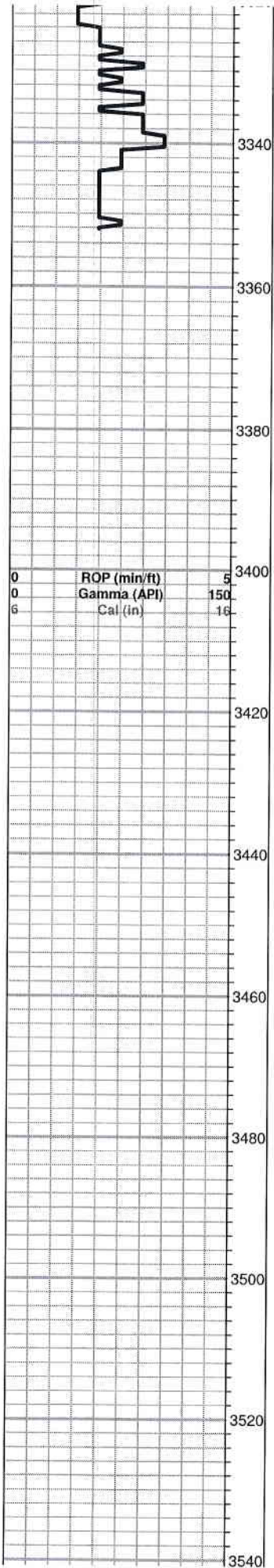
 Cht	 Lmst fw7+	 shale, gry	 shale, red
 Dolsec	 shale, grn	 Carbon Sh	 Ss

OTHER SYMBOLS

- Oil Show**
 - Even Stn
 - Spotted Stn 50-75
 - Spotted Stn 25-50
 - Spotted Stn 1-25
 - Questionable Stn
 - D Dead Oil Stn
 - Fluorescence
 - * Gas
- DST**
 - DST Int
 - DST alt
 - Core
 - || tail pipe

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Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
						Total Gas (units)
ROP (min/ft)	Cored Interval DST Interval					C1 (units)
Gamma (API)						C2 (units)
Cal (in)						C3 (units)
						C4 (units)
1:240 Imperial						1:240 Imperial
0	ROP (min/ft)	5				0 Total Gas (units)
0	Gamma (API)	150				0 C1 (units)
6	Cal (in)	16				0 C2 (units)
						0 C3 (units)
						0 C4 (units)
						0
		3320				100



Limestone; grey, fine xln, fossiliferous, chalky in part, dense, poor visible porosity, no shows

Limestone; cream, fine-medium xln, granular, chalky, oolitic in part, no shows, plus white chalk

Limestone; cream-buff, fine-medium xln, slightly fossiliferous, dense, plus grey-white boney Chert

HEEBNER 3413 (-1539)
black carboniferous shale

grey-maroon shale

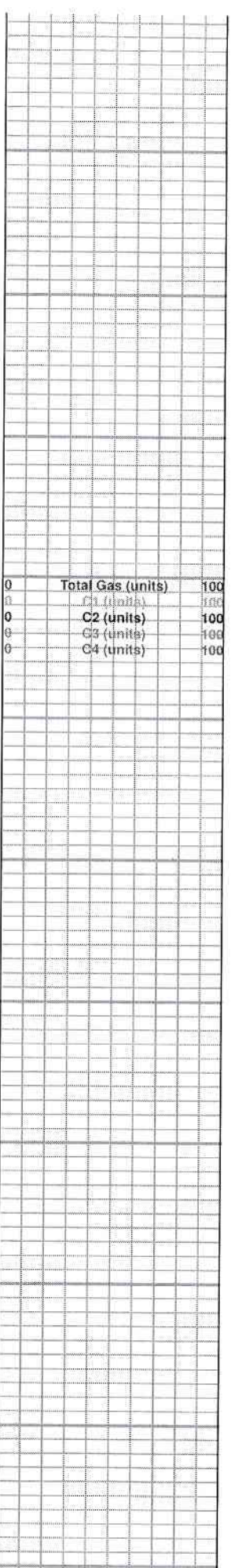
TORONTO 3430 (-1568)
Limestone; white-cream-lt. grey, fine-medium xln, chalky, few scattered porosity, plus white chalk no shows

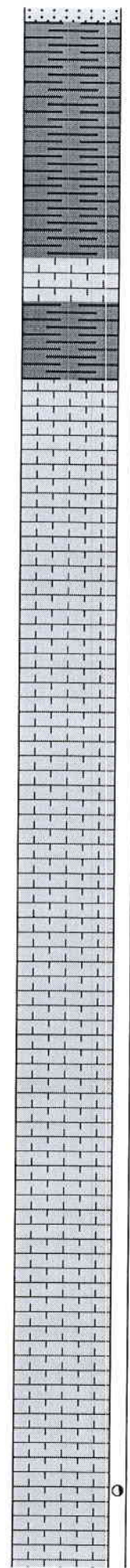
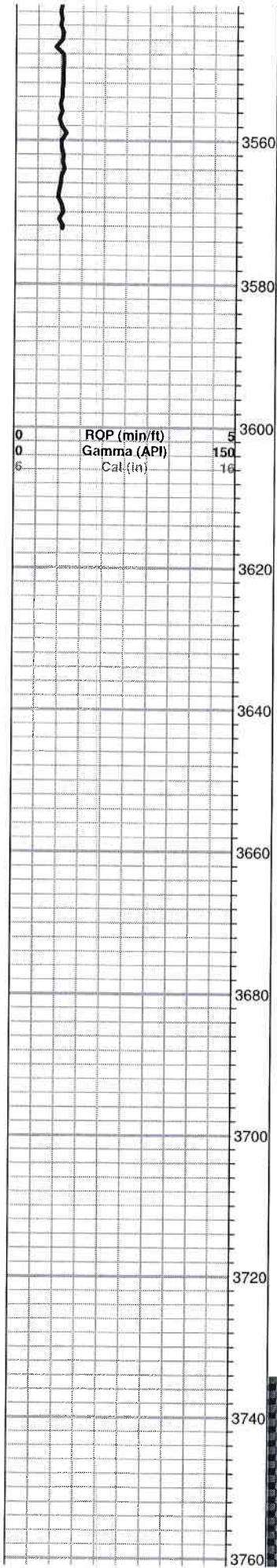
DOUGLAS SHALE 3452 (-1578)
Shale; grey-green-maroon, soft, silty in part, few micaceous pieces

DOUGLAS SAND
Sand; grey-dark grey, micaceous, silty, dense, shaley in part

Sand; lt. grey-grey, very fine grained, sub rounded, sub angular, few silty pieces, miaceous, no shows

Sand as above





Shale; grey-lt. grey-dark grey, soft, silty, micaceous

BROWN LIME 3577 (-1703)

Limestone; tan-greyish brown, fine xln, dense, cherty, fossiliferous in part

LANSING 3597 (-1723)

Limestone; cream, fine xln, chalky, fossiliferous, few recrystallized pieces, sparry calcite, poorly developed porosity, no shows

Limestone; cream-grey, few scattered porosity, cherty in part, trace tan fossiliferous Chert, no shows

Limestone; cream-tan, fine xln, chalky in part, dense, poor porosity, cherty, no shows

Limestone; grey-buff, fine xln, fossiliferous, dense, poorly developed porosity, trace spotty brown stain, nsfo, plus Chert, grey, fossiliferous

Limestone; cream-buff-grey, fine xln, finely oolitic-fossiliferous, cherty, no visible porosity, dense, plus Chert; grey-cream, fossiliferous in part

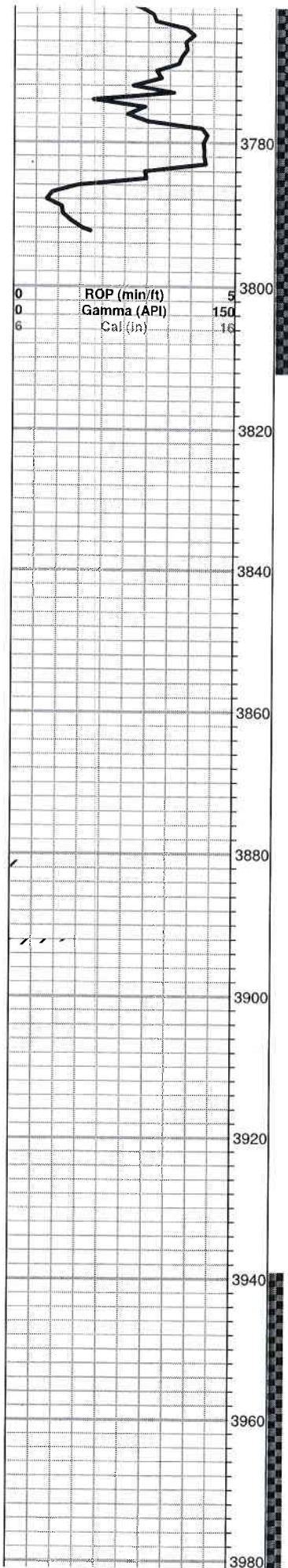
Limestone and Chert as above

Limestone; cream-buff-grey, fine xln, finely oolitic-fossiliferous, dense, plus Chert; grey-cream

Limestone; grey-buff, finely fossiliferous, dense, cherty, poor visible porosity, plus grey fossiliferous Chert

Limestone; buff, highly oolitic, chalky in part, poorly deviated porosity, trace brown stain, trace spotty free oil, very faint odor

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



Limestone; cream-white, fine-medium xln, chalky, few inter xln type porosity, golden brown stain, trace spotty free oil, faint odor when broke

Limestone; cream, oolitic in part, scattered inter xln- few oomoldic type porosity, no shows

Limestone; cream-white-grey, fine xln, dense, slightly cherty, plus white chalk, no shows

Limestone; cream-grey, fine xln, chalky, finely oolitic-fossiliferous, fair-good fossil cast type porosity no shows

Limestone; cream-buff, fine xln, dense, cherty, slightly fossiliferous no visible porosity, no shows

black carboniferous shale

Limestone; tan-buff, fine xln, dense, poorly developed porosity, brown stain, NSFO, no odor

black carboniferous shale

Limestone; cream, fine xln, dense, shaley

BASE KANSAS CITY 3893 (-2019)

Shale; grey-dark grey-black

Limestone; cream-"limey" green, fine xln, chalky, dense, plus Chert white-cream, boney, trace black-dark brown stain

Limestone; as above, plus Chert; cream-tan-orange, boney

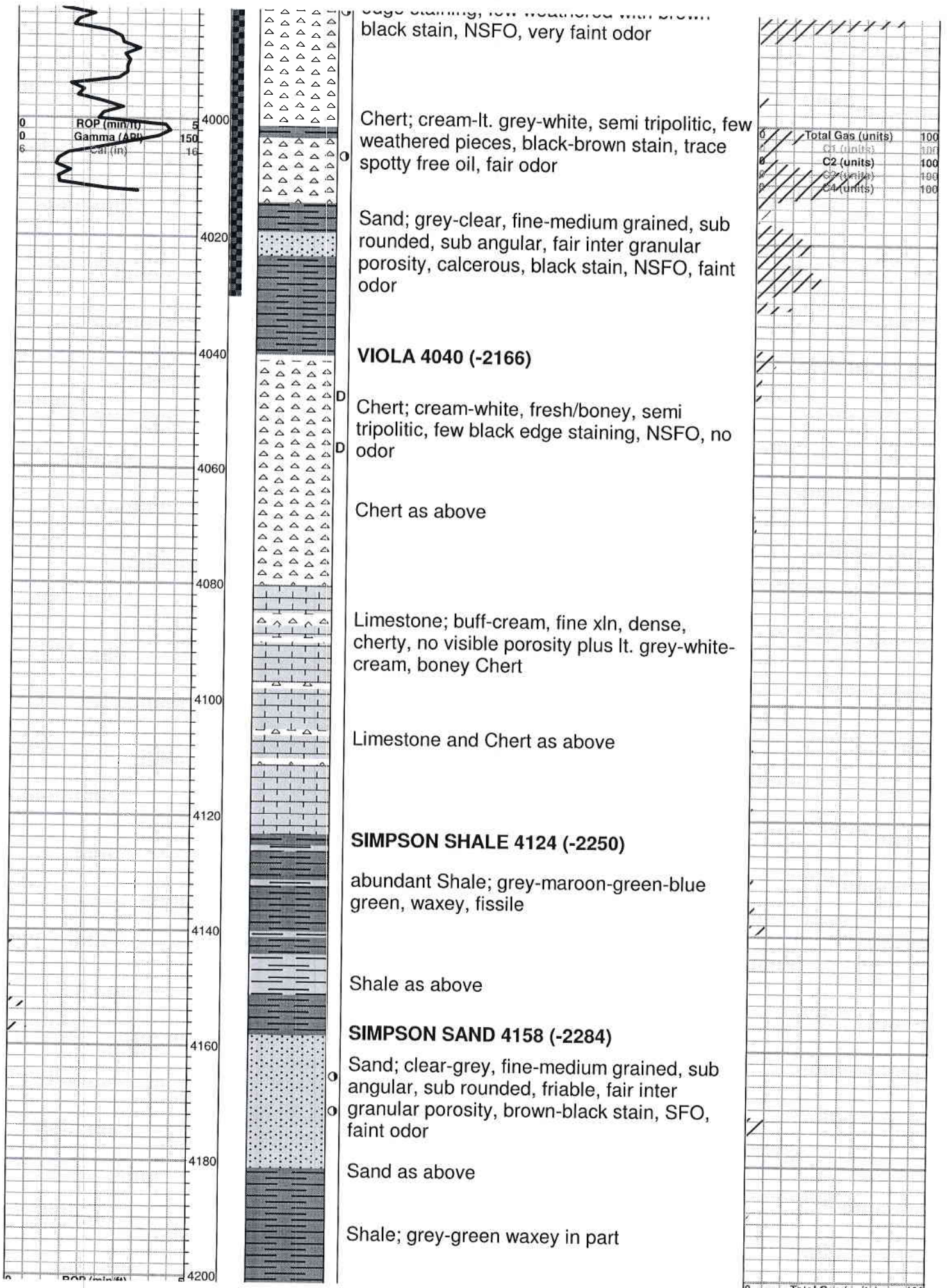
Limestone; cream-white, fine xln, chalky, slightly fossiliferous, poorly developed porosity, no shows

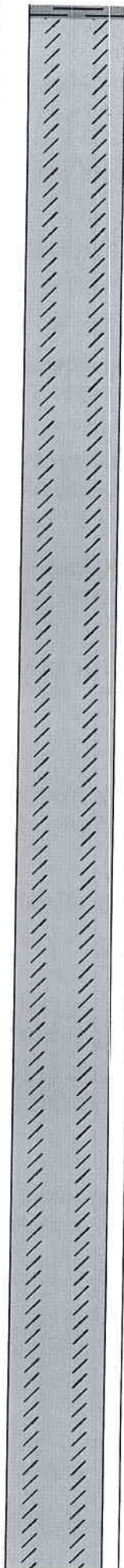
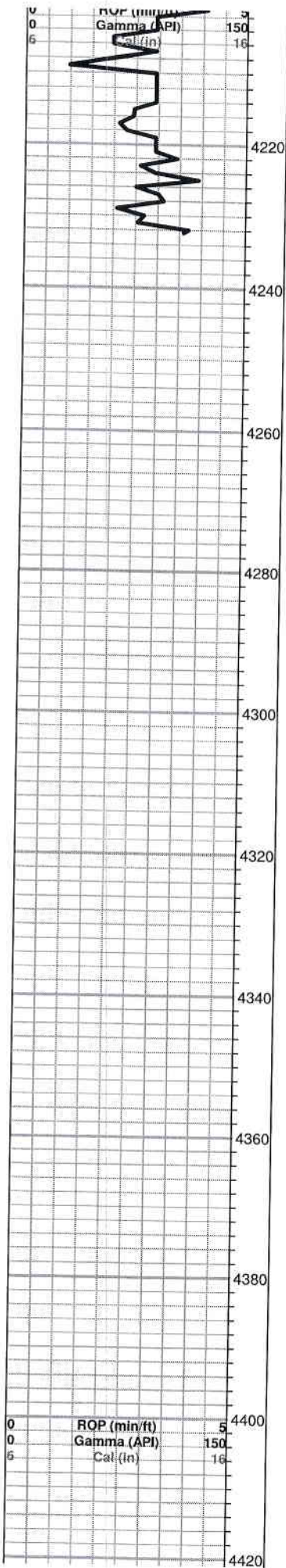
Shale; grey-green-maroon-purple

MISSISSIPPI 3960 (-2086)

Chert; white-cream, tripolitic, boney, black edge staining few weathered with brown-

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





ARBUCKLE 4202 (-2328)

Dolomite; grey-cream-buff, fine xln, dense, scattered vuggy-oomoldic porosity, no shows

plus Chert; white, oolitic, boney

Dolomite; buff-grey, fine-medium xln, dense, few inter xln porosity, no shows

Dolomite; as above plus Chert, white-grey, boney, no shows

Dolomite; grey-cream-buff, few scattered oomoldic-vuggy type porosity, no shows

Dolomite; cream, fine xln, sucrosic, dense, poor porosity no shows

Dolomite; as above

Dolomite; grey-buff, fine medium xln, fair inter xln porosity, no shows, trace lt grey chert

as above

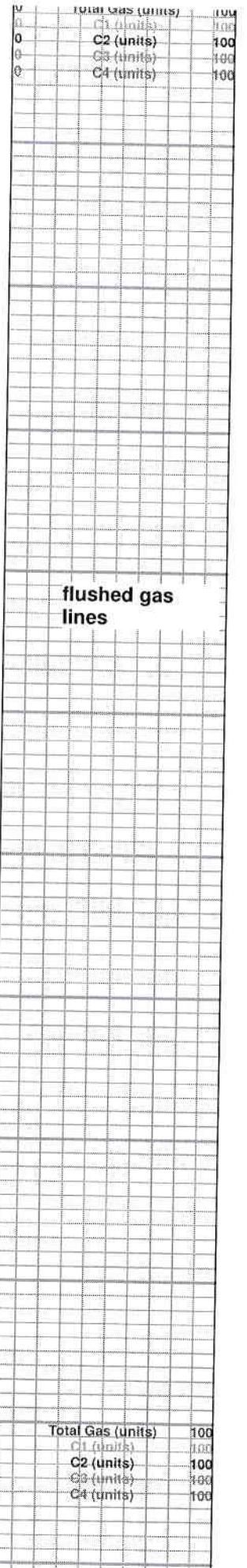
Dolomite; white-tan, fine xln, slightly sucrosic, few inter xln porosity, plus white boney Chert

Dolomite and Chert as above

Dolomite; cream-white, granular/sandy, few scattered porosity, plus white bonwy Chert

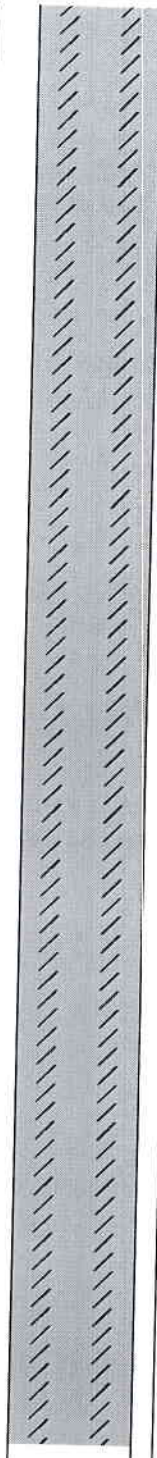
Dolomite; cream-buff, fine-medium xln, sandy-granular in part, fair inter xln porosity

Dolomite; cream-tan-buff, fine xln, dense, slightly sucrosic, poor visible porosity





4440
4460
4480
4500
4520
4540
4560
4580



as above

Dolomite; cream-tan, fine-medium xln, dense, poorly developed porosity, trace grey-white Chert

Dolomite; cream, fine xln, sucrosic, dense, trace inter xln porosity

Dolomite as above; grey-cream

Dolomite; cream-tan, fine-medium xln, dense, scattered inter xln porosity, trace grey-white Chert

as above

Dolomite; cream-tan-grey, fine-medium xln, inter xln porosity, white Chert

Chert and Dolomite as above

BASIC

energy services, L.P.

TREATMENT REPORT

Customer	H&O EXPLORATION		Lease No.		Date	11-23-13	
Lease	Julian		Well #	2			
Field Order #	9327	Station	Pratt	Casing	8 5/8	Depth	706
				County	Stafford	State	KS
Type Job	CNW Surface			Formation		Legal Description	28-25-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
8 5/8				Pre Pad	Max		5 Min.
Depth 706	Depth	From	To	Pad	Min		10 Min.
Volume 44	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth 690	Packer Depth	From	To				

Customer Representative	Brad		Station Manager	Kevin		Treater	JOE	
Service Units	77686	19905	19826	73768	28443			
Driver Names	SCOTT		Jesse		JOE			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0630					on loc / safety meeting
					Run 17 JTS of 8 5/8 csg 24 #
					START Running csg.
1030					Csg on BOTTOM / Break circ with Big
1036					HOOKS UP TO PUMP TO START JOB
1040			5	4	H2O SPACER
			88	4	MIX 200 SK A-CON @ 12 #
			32	4	MIX 150 SK COMMON @ 15.6 #
			Ø	Ø	SHUT DOWN PRE-RELEASE PLUG
1115			Ø	4	START H2O DISP.
			0	4	CEMENT TO SURFACE
1130			44	0	PLUG DOWN
					Ø44 BBL CEMENT TO PIT
					JOB COMPLETE
					Thank you JOE

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

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TREATMENT REPORT

Customer	H ₂ O Exploration	Lease No.		Date	12-4-13		
Lease	Julian	Well #	2				
Field Order #	9557	Station	Pratt	Casing	5 1/2	Depth	
Type Job	CNW	I.S.		County	STAFFORD	State	KS
				Formation		Legal Description	28-25-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	5 1/2	Tubing Size		Acid	200 SKS	RATE	60/40 PZ
Depth	4277	Shots/Ft		Pre Pad	.75% CLR	PRESS	2520 w/ 18% salt
Volume	101.8	From	To	Max	5% SK Gilsonite	ISIP	5 Min.
Max Press	1500	From	To	Min	60/40 PZ 2% gel		10 Min.
Well Connection	PC	From	To	Frac			15 Min.
Plug Depth	4232	From	To	Flush		HHP Used	Annulus Pressure
						Gas Volume	Total Load

Customer Representative	Gerard	Station Manager	Kevin Gordrey	Treater	Mike Mattias
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Service Units	37566	19861	19843	19900	21010				
Driver Names	MATTIAS	MARQUEZ		HAMBY					

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
11:00 AM					ON LOCATION / SAFETY MEETING
2:30					RUN 5 1/2 CSNG CONT. ON 1, 3, 5, 7, 9, 11
					BASKETS ON 2, 8
4:15					CSNG ON BOTTOM
4:30					HOOK UP TO CSNG / BREAK CIRC W. RIY
					SET BASKET SHOE
4:45					CIRCULATE 1 hr
5:30	400		20	5	PUMP 20 BBLS 2% KCL H2O
5:33	400		12	5	PUMP 12 BBLS MUD FLUSH
5:35	400		3	5	PUMP 3 BBLS H2O
5:36	400		38	5	MIX 200 SKS 60/40 PZ
5:45					WASH PUMP + LINE, RELEASE PLY
5:44	100			5	START DISPLACEMENT
6:03	500		0	4	SLOW RATE
6:05	800/300		100	-	PLUG DOWN, PSE TO 1300, RELEASED + HOLD
6:10			7/4	-	CONCRETE R.H. + M.H.
					CIRC TRN JOB
					JOB COMPLETE
					Thank You!
					Mike Mattias