

OPERATOR

Company: Falcon Exploration, Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Brian Fisher
 Contact Phone Nbr: 316-262-1378
 Well Name: Joan Ward #1-32 (SW)
 Location: Sec. 32 - T28S - R30W
 Pool: _____
 State: Kansas
 API: 15-069-20409-0000
 Field: Wildcat
 Country: USA

Scale 1:240 Imperial

Well Name: Joan Ward #1-32 (SW)
 Surface Location: Sec. 32 - T28S - R30W
 Bottom Location: _____
 API: 15-069-20409-0000
 License Number: 5316
 Spud Date: 10/27/2012 Time: 00:00
 Region: Gray County
 Drilling Completed: 11/3/2012 Time: 15:35
 Surface Coordinates: 1150' FSL & 130' FWL
 Bottom Hole Coordinates: _____
 Ground Elevation: 2818.00ft
 K.B. Elevation: 2831.00ft
 Logged Interval: 3400.00ft To: 5496.00ft
 Total Depth: 5496.00ft
 Formation: Morrow/Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: _____ Latitude: _____
 N/S Co-ord: 1150' FSL
 E/W Co-ord: 130' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Sterling Drilling Company
 Rig #: 5
 Rig Type: mud rotary
 Spud Date: 10/27/2012 Time: 00:00
 TD Date: 11/3/2012 Time: 15:35
 Rig Release: _____ Time: _____

ELEVATIONS

K.B. Elevation: 2831.00ft Ground Elevation: 2818.00ft
 K.B. to Ground: 13.00ft

NOTES

Due to negative results of DST #1 and negative electrical log analysis, it was agreed upon by all parties that the Joan Ward #1-32 be plugged and abandoned as a dry test.

A Tooke Daq gas detection system operated by Sterling Drilling was employed on this well. ROP and gas data were imported into this mudlog. The caliper and gamma ray were also imported from the electrical log data. Sample formation picks were generally within 2-4 ft. of actual electrical log tops, these curves were not shifted to provide an exact match, but rather left as recorded in the field.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis

Falcon Exploration, Inc
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/31/2012	3840	Geologist Keith Reavis on location @ 0330 hrs, 3550 ft., drilling ahead Stotler, Tarkio, Topeka, Heebner, Douglas, Lansing, BKC, Marmaton
11/01/2012	5062	drilling ahead, Marmaton, Pawnee, Cherokee, pull PDC bit and back in with button bit @ 5062 ft, ctoh, resume drilling Cherokee, Morrow
11/02/2012	5260	cfs for Morrow sand, drilling ahead Miss/Chester, St. Gen, St. Louis show and gas kick in St. Louis warrants test, ctoh, TOH for DST #1
11/03/2012	5420	running tools, conduct and complete DST #1, TIH with PDC, rathole ahead to TD 5500', reach TD @ hrs, conduct logging operations
11/04/2012	5496	complete logging operations, geologist released 0200 hrs

Falcon Exploration, Inc.
well comparison sheet

DRILLING WELL					COMPARISON WELL					COMPARISON WELL				
Joan Ward #1-32 (SE)					James Koehn No. 1-31 (NW)					Sherlyn Koehn No. 1-31 (SW)				
1150' FSL & 130' FWL					2310' FNL & 1670' FWL					1700' FSL and 2000' FWL				
Sec 32-T28S-R30W					Sec 31-T28S-R30W					Sec 31-T28S-R30W				
2831 KB					2842 KB					2842 KB				
					Structural Relationship					Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Log	Sub-Sea	Sample	Log	Log
Stotler	3544	-713	3546	-715	3542	-700	-13	-15	3544	-702	-11	-13		
Tarkio	3614	-783	3614	-783	3609	-767	-16		3611	-769	-14			
Topeka	3812	-981	3813	-982	3813	-971	-10		3817	-975	-6			
Heebner	4150	-1319	4151	-1320	4148	-1306	-13		4154	-1312	-7			
Douglas	4189	-1358	4189	-1358	4189	-1347	-11		4197	-1355	-3			
Lansing	4261	-1430	4261	-1430	4260	-1418	-12		4264	-1422	-8			
Stark	4641	-1810	4642	-1811	4648	-1806	-4		4654	-1812	2			
Marmaton	4775	-1944	4780	-1949	4776	-1934	-10		4776	-1934	-10			
Pawnee	4879	-2048	4878	-2047	4875	-2033	-15		4888	-2046	-2			
Cherokee	4920	-2089	4922	-2091	4915	-2073	-16		4926	-2084	-5			
Morrow	5154	-2323	5152	-2321	5135	-2293	-30		5148	-2306	-17			
Morrow Sand	np	np	np	np	5159	-2317			5172	-2330				
Chester	5188	-2357	5194	-2363	5216	-2374	17		5237	-2395	38			
St. Gen	5278	-2447	5490	-2659	5296	-2454	7		5306	-2464	17			
St. Louis por	5393	-2562	5395	-2564	5402	-2560	-2		5425	-2583	21			
Total Depth	5496	-2665	5498	-2667	5449	-2607	-58		5519	-2677	12			

COMPARISON WELL				
Ward #1-31 (SE)				
2445' FSL & 1370' FWL				
Sec 31-T28S-R30W				
2821 KB				
Structural Relationship				
Formation	Log	Sub-Sea	Sample	Log
Stotler	3534	-713	0	-2
Tarkio	3602	-781	-2	-2
Topeka	3804	-983	2	1
Heebner	4140	-1319	0	-1
Douglas	4178	-1357	-1	-1
Lansing	4249	-1428	-2	-2
Stark	4628	-1807	-3	-4
Marmaton	4764	-1943	-1	-6
Pawnee	4869	-2048	0	1
Cherokee	4909	-2088	-1	-3
Morrow	5131	-2310	-13	-11
Morrow Sand	5168	-2347		
Chester	5231	-2410	53	47
St. Gen	5270	-2449	2	-210
St. Louis por	5384	-2563	1	-1
Total Depth	5484	-2663	-2	-4



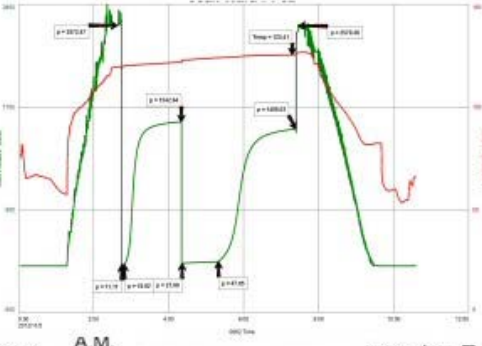
DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joanward1dst1

TIME ON: 00:04
 TIME OFF: 10:36

Company Falcon Exploration Inc. Lease & Well No. Joan Ward #1-32
 Contractor SDC #5 Charge to Falcon Exploration Inc.
 Elevation 2831' KB Formation Miss / St. Louis Effective Pay _____ Ft. Ticket No. F041
 Date 11.3.12 Sec. 32 Twp. 28 S Range 30 W County Gray State KANSAS
 Test Approved By Keith Reavis Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 5380 ft. to 5420 ft. Total Depth 5420 ft.
 Packer Depth 5375 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 5380 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 5359 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 5417 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chemical Viscosity 58 Drill Collar Length 332 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 1450 P.P.M. Drill Pipe Length 5015 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 40 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: Weak blow, increased to .5". No blowback.
2nd Open: Fair blow, increased to 11". No blowback
 Recovered 25 ft. of OSM 2% oil, 98% mud
 Recovered 50 ft. of GCOM 20% gas, 30% oil, 50% mud
 Recovered _____ ft. of 275' GIP
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: Total Fluid Recovered: 75' in DC
 Tool Sample: HOCM 30% oil, 70% mud



Time Set Packer(s) 2:45 am A.M. Time Started Off Bottom 7:20 am A.M. Maximum Temperature 125 deg F

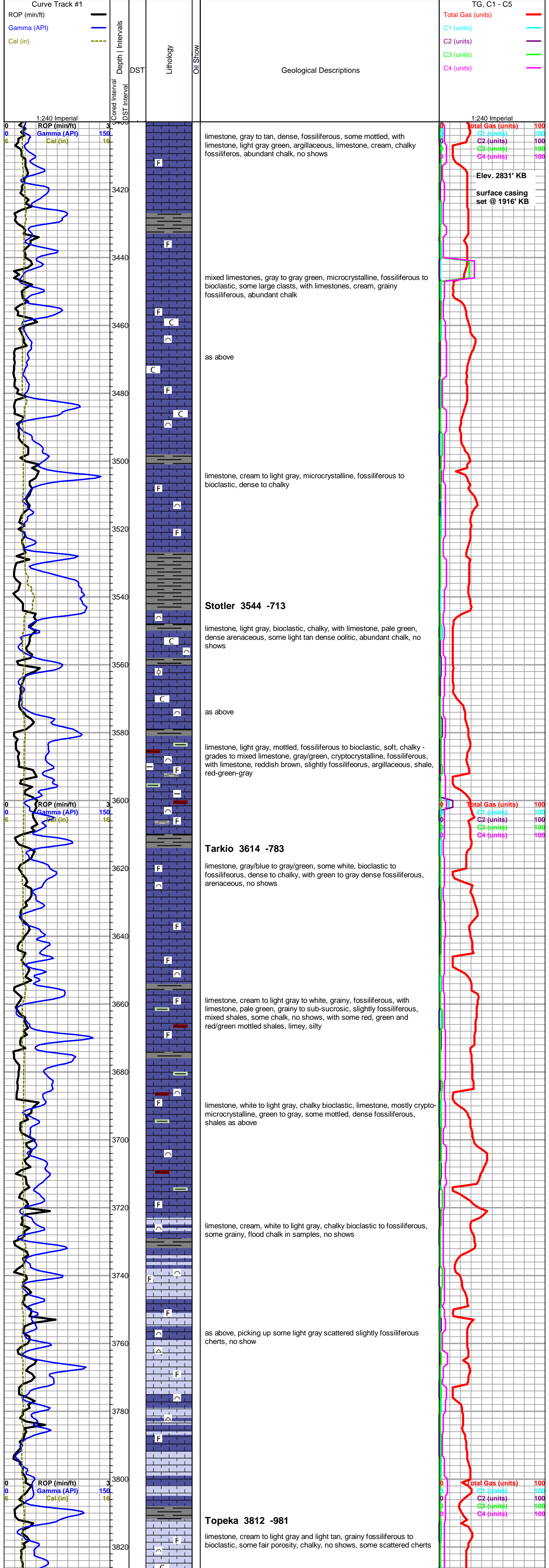
Initial Hydrostatic Pressure.....	(A)	2572 P.S.I.	
Initial Flow Period.....	Minutes	5 (B)	11 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period.....	Minutes	90 (D)	1543 P.S.I.
Final Flow Period.....	Minutes	60 (E)	27 P.S.I. to (F) 47 P.S.I.
Final Closed In Period.....	Minutes	120 (G)	1466 P.S.I.
Final Hydrostatic Pressure.....	(H)	2570 P.S.I.	

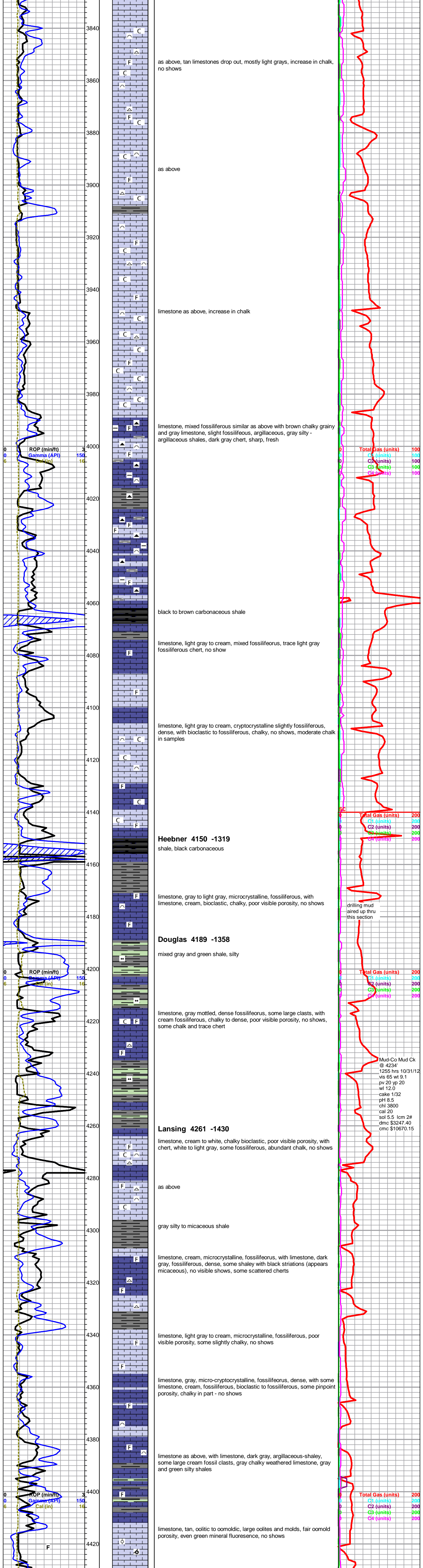
ROCK TYPES			
	sdymst		Lmst fw7>
	Lmst fw<7		shale, gry
	shale, gm		Carbon Sh
			Ss

ACCESSORIES			
MINERAL	FOSSIL	STRINGER	TEXTURE
— Argillaceous	∩ Bioclastic or Fragmental	••• Sandstone	C Chalky
▲ Chert, dark	F Fossils < 20%	••• Siltstone	L Lithogr
∩ Dolomitic	∩ Oolite	— Shale	
∩ Glauconitic	∩ Pellets	— green shale	
•• Silty	∩ Oomoldic	— red shale	
△ Chert White		— carb shale	

OTHER SYMBOLS	
MISC	DST
	Daily Report
	Digital Photo
	Document
	Folder
	Link
	Vertical Log File
	Horizontal Log File
	Core Log File
	Drill Cuttings Rpt
	DST Int
	DST alt
	Core
	tail pipe

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as above, tan limestones drop out, mostly light grays, increase in chalk, no shows

as above

limestone as above, increase in chalk

limestone, mixed fossiliferous similar as above with brown chalky grainy and gray limestone, slight fossiliferous, argillaceous, gray silty - argillaceous shales, dark gray chert, sharp, fresh

black to brown carbonaceous shale

limestone, light gray to cream, mixed fossiliferous, trace light gray fossiliferous chert, no show

limestone, light gray to cream, cryptocrystalline slightly fossiliferous, dense, with bioclastic to fossiliferous, chalky, no shows, moderate chalk in samples

Heebner 4150 -1319
shale, black carbonaceous

limestone, gray to light gray, microcrystalline, fossiliferous, with limestone, cream, bioclastic, chalky, poor visible porosity, no shows

Douglas 4189 -1358
mixed gray and green shale, silty

limestone, gray mottled, dense fossiliferous, some large clasts, with cream fossiliferous, chalky to dense, poor visible porosity, no shows, some chalk and trace chert

Lansing 4261 -1430

limestone, cream to white, chalky bioclastic, poor visible porosity, with chert, white to light gray, some fossiliferous, abundant chalk, no shows

as above

gray silty to micaceous shale

limestone, cream, microcrystalline, fossiliferous, with limestone, dark gray, fossiliferous, dense, some shaly with black striations (appears micaceous), no visible shows, some scattered cherts

limestone, light gray to cream, microcrystalline, fossiliferous, poor visible porosity, some slightly chalky, no shows

limestone, gray, micro-cryptocrystalline, fossiliferous, dense, with some limestone, cream, fossiliferous, bioclastic to fossiliferous, some pinpoint porosity, chalky in part - no shows

limestone as above, with limestone, dark gray, argillaceous-shaley, some large cream fossil clasts, gray chalky weathered limestone, gray and green silty shales

limestone, tan, oolitic to oomoldic, large oolites and molds, fair oomold porosity, even green mineral fluorescence, no shows

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

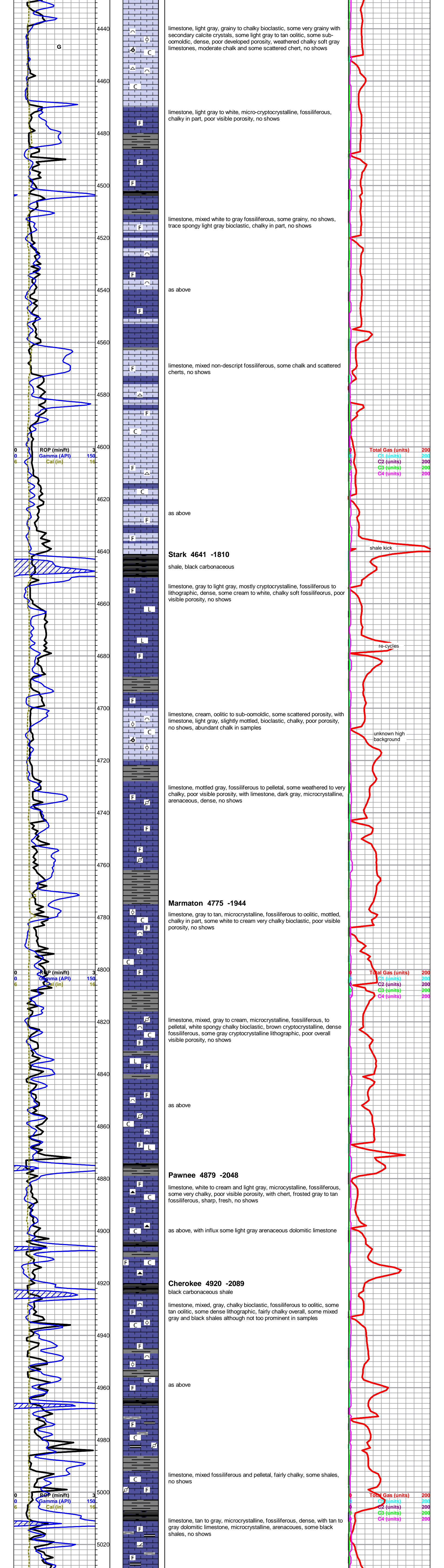
Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

drilling mud
aired up thru
this section

Mud-Co Mud Ck
@ 4234'
1255 hrs 10/31/12
vis 65 wt 9.1
pv 20 yp 20
wl 12.0
cake 1/32
pH 8.5
chl 3800
cal 20
sol 5.5 lcm 2#
dmc \$3247.40
cmc \$10670.15



limestone, light gray, grainy to chalky bioclastic, some very grainy with secondary calcite crystals, some light gray to tan oolitic, some sub-oolitic, dense, poor developed porosity, weathered chalky soft gray limestones, moderate chalk and some scattered chert, no shows

limestone, light gray to white, micro-cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, no shows

limestone, mixed white to gray fossiliferous, some grainy, no shows, trace spongy light gray bioclastic, chalky in part, no shows

as above

limestone, mixed non-descript fossiliferous, some chalk and scattered cherts, no shows

as above

Stark 4641 -1810

shale, black carbonaceous

limestone, gray to light gray, mostly cryptocrystalline, fossiliferous to lithographic, dense, some cream to white, chalky soft fossiliferous, poor visible porosity, no shows

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

shale kick

re-cycles

limestone, cream, oolitic to sub-oolitic, some scattered porosity, with limestone, light gray, slightly mottled, bioclastic, chalky, poor porosity, no shows, abundant chalk in samples

unknown high background

limestone, mottled gray, fossiliferous to pelletal, some weathered to very chalky, poor visible porosity, with limestone, dark gray, microcrystalline, arenaceous, dense, no shows

Marmaton 4775 -1944

limestone, gray to tan, microcrystalline, fossiliferous to oolitic, mottled, chalky in part, some white to cream very chalky bioclastic, poor visible porosity, no shows

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

limestone, mixed, gray to cream, microcrystalline, fossiliferous, to pelletal, white spongy chalky bioclastic, brown cryptocrystalline, dense fossiliferous, some gray cryptocrystalline lithographic, poor overall visible porosity, no shows

as above

Pawnee 4879 -2048

limestone, white to cream and light gray, microcrystalline, fossiliferous, some very chalky, poor visible porosity, with chert, frosted gray to tan fossiliferous, sharp, fresh, no shows

as above, with influx some light gray arenaceous dolomitic limestone

Cherokee 4920 -2089

black carbonaceous shale

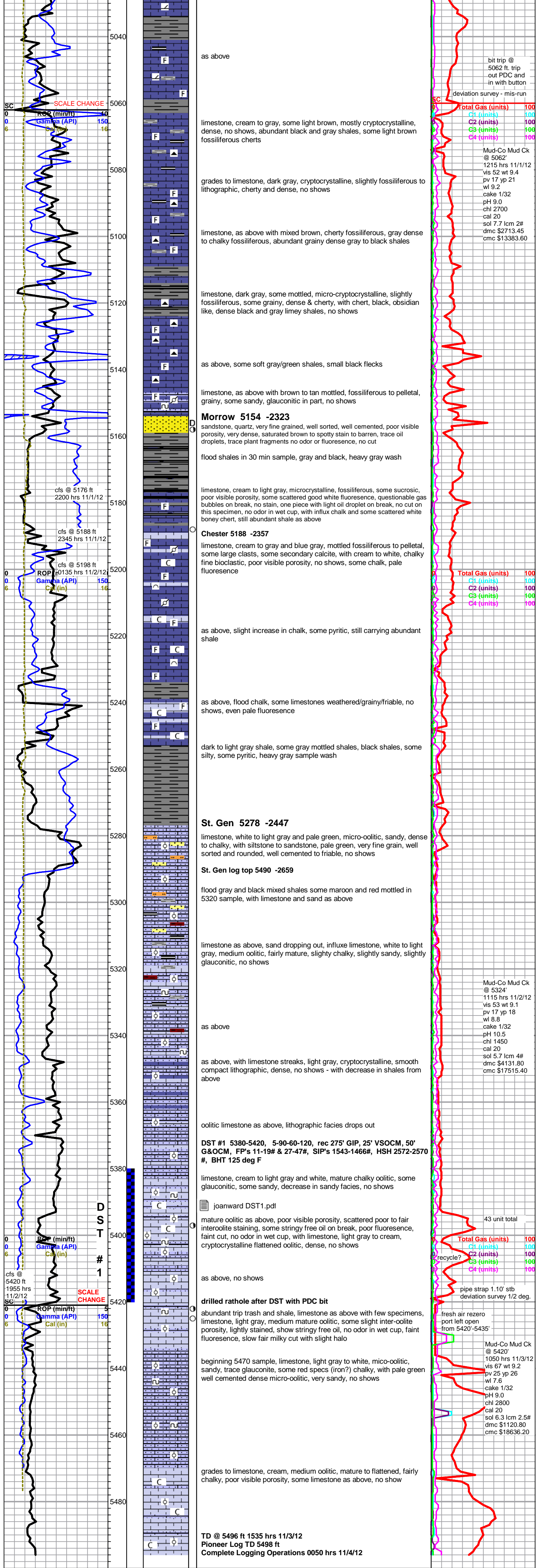
limestone, mixed, gray, chalky bioclastic, fossiliferous to oolitic, some tan oolitic, some dense lithographic, fairly fossiliferous, some mixed gray and black shales although not too prominent in samples

as above

limestone, mixed fossiliferous and pelletal, fairly chalky, some shales, no shows

Total Gas (units)	200
C1 (units)	200
C2 (units)	200
C3 (units)	200
C4 (units)	200

limestone, tan to gray, microcrystalline, fossiliferous, dense, with tan to gray dolomitic limestone, microcrystalline, arenaceous, some black shales, no shows



as above

bit trip @ 5062 ft. trip out PDC and in with button deviation survey - mis-run

limestone, cream to gray, some light brown, mostly cryptocrystalline, dense, no shows, abundant black and gray shales, some light brown fossiliferous cherts

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

Mud-Co Mud Ck @ 5062' 1215 hrs 11/1/12 vis 52 wt 9.4 pv 17 yp 21 wl 9.2 cake 1/32 pH 9.0 chl 2700 cal 20 sol 7.7 lcm 2# dmc \$2713.45 cmc \$13383.60

grades to limestone, dark gray, cryptocrystalline, slightly fossiliferous to lithographic, cherty and dense, no shows

limestone, as above with mixed brown, cherty fossiliferous, gray dense to chalky fossiliferous, abundant grainy dense gray to black shales

limestone, dark gray, some mottled, micro-cryptocrystalline, slightly fossiliferous, some grainy, dense & cherty, with chert, black, obsidian like, dense black and gray limey shales, no shows

as above, some soft gray/green shales, small black flecks

limestone, as above with brown to tan mottled, fossiliferous to pelletal, grainy, some sandy, glauconitic in part, no shows

Morrow 5154 -2323

sandstone, quartz, very fine grained, well sorted, well cemented, poor visible porosity, very dense, saturated brown to spotty stain to barren, trace oil droplets, trace plant fragments no odor or fluorescence, no cut

flood shales in 30 min sample, gray and black, heavy gray wash

limestone, cream to light gray, microcrystalline, fossiliferous, some sucrosic, poor visible porosity, some scattered good white fluorescence, questionable gas bubbles on break, no stain, one piece with light oil droplet on break, no cut on this specimen, no odor in wet cup, with influx chalk and some scattered white boney chert, still abundant shale as above

Chester 5188 -2357

limestone, cream to gray and blue gray, mottled fossiliferous to pelletal, some large clasts, some secondary calcite, with cream to white, chalky fine bioclastic, poor visible porosity, no shows, some chalk, pale fluorescence

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

as above, slight increase in chalk, some pyritic, still carrying abundant shale

as above, flood chalk, some limestones weathered/grainy/friable, no shows, even pale fluorescence

dark to light gray shale, some gray mottled shales, black shales, some silty, some pyritic, heavy gray sample wash

St. Gen 5278 -2447

limestone, white to light gray and pale green, micro-oolitic, sandy, dense to chalky, with siltstone to sandstone, pale green, very fine grain, well sorted and rounded, well cemented to friable, no shows

St. Gen log top 5490 -2659

flood gray and black mixed shales some maroon and red mottled in 5320 sample, with limestone and sand as above

limestone as above, sand dropping out, influx limestone, white to light gray, medium oolitic, fairly mature, slightly chalky, slightly sandy, slightly glauconitic, no shows

Mud-Co Mud Ck @ 5324' 1115 hrs 11/2/12 vis 53 wt 9.1 pv 17 yp 18 wl 8.8 cake 1/32 pH 10.5 chl 1450 cal 20 sol 5.7 lcm 4# dmc \$4131.80 cmc \$17515.40

as above

as above, with limestone streaks, light gray, cryptocrystalline, smooth compact lithographic, dense, no shows - with decrease in shales from above

oolitic limestone as above, lithographic facies drops out

DST #1 5380-5420, 5-90-60-120, rec 275' GIP, 25' VSOCM, 50' G&OCM, FP's 11-19# & 27-47#, SIP's 1543-1466#, HSH 2572-2570 #, BHT 125 deg F

limestone, cream to light gray and white, mature chalky oolitic, some glauconitic, some sandy, decrease in sandy facies, no shows

joanward DST1.pdf

mature oolitic as above, poor visible porosity, scattered poor to fair interoolite staining, some stringy free oil on break, poor fluorescence, faint cut, no odor in wet cup, with limestone, light gray to cream, cryptocrystalline flattened oolitic, dense, no shows

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

as above, no shows

drilled rathole after DST with PDC bit

abundant trip trash and shale, limestone as above with few specimens, limestone, light gray, medium mature oolitic, some slight inter-oolite porosity, lightly stained, show stringy free oil, no odor in wet cup, faint fluorescence, slow fair milky cut with slight halo

43 unit total
pipe strap 1.10' stb deviation survey 1/2 deg.

beginning 5470 sample, limestone, light gray to mico-oolitic, sandy, trace glauconite, some red specs (iron?) chalky, with pale green well cemented dense micro-oolitic, very sandy, no shows

fresh air zero port left open from 5420'-5435'
Mud-Co Mud Ck @ 5420' 1050 hrs 11/3/12 vis 67 wt 9.2 pv 25 yp 26 wl 7.6 cake 1/32 pH 9.0 chl 2800 cal 20 sol 6.3 lcm 2.5# dmc \$1120.80 cmc \$18636.20

grades to limestone, cream, medium oolitic, mature to flattened, fairly chalky, poor visible porosity, some limestone as above, no show

**TD @ 5496 ft 1535 hrs 11/3/12
Pioneer Log TD 5498 ft
Complete Logging Operations 0050 hrs 11/4/12**