



Genesis 6+0
Maybell 12-9-7-95
NWSW 9-70-95W

Drilling Report

081-07329

Rocky Mountain
CEMENTERS

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RPK
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COGCC 11611

P.O# 621710816-308

FIELD TICKET

FIELD TICKET										ON LOCATION		JOB BEGAN		JOB COMPLETED			
DATE		WELL NO.		FARM		SEC		TWP		RNG		TRUCK CALLED OUT		A.M. P.M.			
12-21-07		12-5-2-95		Federal Mayhall								1430		A.M. P.M.			
TRUCK NO.		ORDER NO.		PLACE OR DESTINATION										COUNTY		STATE	
20		P.O.H.		wildcat										Madison		Ca	
Owner of Well														Genesis			

CHARGE TO _____
Name Blanking
Mail Address _____ Contractor Blanking
City _____ State _____ Zip _____
/ DRILL PIPE

City _____		State _____		Casing (NEW) SIZE <u>7</u>		SIZE (DRILL PIPE)	
DEPTH OF WELL <u>115</u>		DEPTH OF JOB <u>333 ft</u>		TYPE OF JOB <u>surface</u>		WEIGHT <u>17</u>	
						Unit Price	Amount

[illegible]

Conditions and Limitation Covering This Contract

Conditions and Limitation Covering This Contract

It is expressly understood and agreed that Rocky Mountain Cementers, Inc. is selling and delivering the cement described on this ticket only as a retail dealer, and distributor and that Rocky Mountain Cementers, Inc. makes no representation or warranties, expressed or implied, except those made.

Tractor No.

1. 29. T20

As a part of this consideration hereof, it is agreed that Rocky Mountain Cementers, Inc. shall not be liable or responsible for any such loss, damage or injury to said well resulting from the use of such cementing equipment, or acts of any person engaged in doing such work on the above described well.

It is expressly understood and agreed that Rocky Mountain Cementers, Inc. will not be bound by any agreement not herein contained.

Cementer Rob

X _____ Agent of Contractor or Operator

District Cumana State Venezuela

Helpers Joe + Ben + Mike

LEASE Federal Maybell

JOB LOG

CUSTOMER

JOB TYPE

Rocky Mountain
CEMENTERS

REV
3/10/10

TICKET NO.

FEB 24 2010

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PAGE NO.

DATE _____

[illegible]

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3/10/10

CUM. DAYS (FROM SPUD)	0.5
-----------------------	-----

13.5

0.5

2

98

Hours on BHA

DOI: 10.1002/for

6:00 AM

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GENESIS GAS & OIL OPERATING LLC DAILY DRILLING REPORT

WELL NAME Maybell #12-9-7-95 CONTRACTOR Elenburg Exploration Rig #8
T.D. AT REPORT 418 FOOTAGE 238 CUM. DRLG. HRS. 8.25
PRESENT OPERATION Waiting on Cement CUM. DAYS (FROM SPUD) 1.5

TIME BREAKDOWNS

Drilling _____ Trips _____ Surveys _____ Rig Repair _____
PU tools _____ Circ _____ Rig service _____ NU BOP _____
WOC _____ WOC _____ BOP _____ MI&RU _____

BIT SUMMARY

Bit No.	Size	Make	Type	Serial No.	Depth In	Depth Out	Footage Drilled	Rotating Hours	Nozzle Size	Condition T B G	Ft/Hr
	9-7/8"				60'	418'					
	6-1/4"			pilot hole	214'	418'					

SURVEYS:

MUD PROPERTIES

Mud Wt. _____ Vis _____ WL _____ Filtr Ck _____ /32 pH _____ Oil% _____ Water, % 98
PV _____ YP _____ Gels _____ Alkalinity, ppm _____ Salt _____ #/bbl
Solids _____ %Sand _____ calcium, ppm _____ Chlorides _____ Other _____
Mud mixed last 24 hrs. _____

DRILLING ASSEMBLY

BHA _____

W.O.B. _____ RPM _____ PSI _____ GPM _____ AV_{pp}/AV_{dc} _____
Pump #1: Liner _____ Stroke Length _____ SPM _____
Pump #2: Liner _____ Stroke Length _____ SPM _____ Date of B.O.P. Test _____
SLM: Board _____ Talley _____ Correction _____ Hours on BHA _____

DETAILS:

Start	End	Hrs	
6:00	6:30	0.50	Drilling 180' - 183' with 9-7/8" bit
6:30	8:30	2.00	TOOH to change bit due to slow progress
8:30	10:45	2.25	Drilling 183' - 214'
10:45	11:45	1.00	TOOH to change to 6-1/4" to drill pilot hole
11:45	13:30	1.75	Drilling pilot hole 214' - 418'
13:30	14:15	0.75	TOOH to change to 9-7/8" bit
14:15	18:00	3.75	Drilling 9-7/8" hole to 418'
18:00	18:30	0.50	TOOH
18:30	21:00	2.50	PU and RIH with 7", J-55 casing to 406' (400' pipe). Stacked out on fill. Tried to work through, unable. Cement casing. 7", 17# casing set at 406' (KB)
			X Cemented to surface with 185 sx Class G cmt with 2% CaCl. Good returns to pit (13 bbls).
21:00	5:00	8.00	WOC (broke off at 3 am, cement not set so waited another 2 hrs)
5:00	6:00	1.00	NU. Test BOP

Weather note: worked roads to clear snow. Low overnight -15 degrees F.

GL = 6341.4', KB = 6'

Total 24.00

Report by Dave Jensen Date December 22, 2007 6:00 AM

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GENESIS GAS & OIL OPERATING LLC **DAILY DRILLING REPORT**

WELL NAME Maybell #12-9-7-95 CONTRACTOR Elenburg Exploration Rig #8
T.D. AT REPORT 1260 FOOTAGE 842 CUM. DRLG. HRS. 20.75
PRESENT OPERATION Making up core barrel for second run CUM. DAYS (FROM SPUD) 2.5

TIME BREAKDOWNS

Drilling _____ Trips _____ Surveys _____ Rig Repair _____
PU tools _____ Circ _____ Rig service _____ NU BOP _____
WOC _____ WOC _____ BOP _____ MI&RU _____

BIT SUMMARY

Bit No.	Size	Make	Type	Serial No.	Depth In	Depth Out	Footage Drilled	Rotating Hours	Nozzle Size	Condition T B G	Ft/Hr
	6-1/4"				406'						

SURVEYS:

MUD PROPERTIES

Mud Wt. 8.9 Vis 32 WL 7.5 Filtr Ck _____ /32 pH 10.00 Oil% _____ Water, % 98
PV _____ YP _____ Gels _____ Alkalinity, ppm _____ Salt _____ #/bbl
Solids _____ %Sand _____ calcium, ppm _____ Chlorides _____ Other _____
Mud mixed last 24 hrs. _____

DRILLING ASSEMBLY

BHA _____

W.O.B. _____ RPM _____ PSI _____ GPM _____ AV_{DP}/AV_{DC} _____
Pump #1: Liner _____ Stroke Length _____ SPM _____
Pump #2: Liner _____ Stroke Length _____ SPM _____ Date of B.O.P. Test _____
SLM: Board _____ Talley _____ Correction _____ Hours on BHA _____

DETAILS:

Start	End	Hrs	
6:00	7:30	1.50	Finish making up bit and drill collar. Crew kept everything thawed during WOC.
7:30	8:30	1.00	RIH. Drill cmt and drill out shoe.
8:30	12:00	3.50	Drilling 356' to 690'. Taking samples every 30'. Slight water inflow started 650'-700'.
12:00	18:45	6.75	Drilling 690' to 1230' (core point)
18:45	20:15	1.50	Circulate 15 mins. POOH.
20:15	1:00	4.75	Make up core barrel and RIH to 1230'.
1:00	2:15	1.25	Core 1230' - 1260'. ROP = 0.5 - 1.0 mins/ft.
2:15	5:30	3.25	POOH with core. Pull slowly to ensure core stays in barrel.
5:30	6:00	0.50	Recovered 5' from 30' cored.

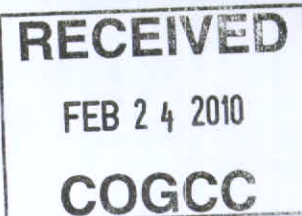
Weather note: sunny but cold (estimated -12 to high of 5 degrees)

GL = 6341.4', KB = 6'

Total 24.00

Report by Dave Jensen Date December 23, 2007 6:00 AM

RPK
3/10/10



GENESIS GAS & OIL OPERATING LLC DAILY DRILLING REPORT

WELL NAME Maybell #12-9-7-95 CONTRACTOR Elenburg Exploration Rig #8
T.D. AT REPORT 0 (1563' prior to plugging) FOOTAGE CUM. DRLG. HRS. 23.75
PRESENT OPERATION Well plugged to surface, moving off location. CUM. DAYS (FROM SPUD) 2.5

TIME BREAKDOWNS

Drilling Trips Surveys Rig Repair
PU tools Circ Rig service NU BOP
WOC WOC BOP MI&RU

BIT SUMMARY

Bit No.	Size	Make	Type	Serial No.	Depth In	Depth Out	Footage Drilled	Rotating Hours	Nozzle Size	Condition T B G	Ft/Hr
	6-1/4"				406'	1563'					

SURVEYS:

MUD PROPERTIES

Mud Wt. 8.9 Vis 32 WL 7.5 Filtr Ck /32 pH 10.00 Oil% Water, % 98
PV YP Gels Alkalinity, ppm Salt #/bbl
Solids %Sand calcium, ppm Chlorides Other
Mud mixed last 24 hrs.

DRILLING ASSEMBLY

BHA

W.O.B. RPM PSI GPM AV_{DP}/AV_{DC}
Pump #1: Liner Stroke Length SPM
Pump #2: Liner Stroke Length SPM Date of B.O.P. Test
SLM: Board Talley Correction Hours on BHA

DETAILS:

Start	End	Hrs	
6:00	8:00	2.00	Finish making up core barrel and RIH. Pipe appeared to slide over 1st core. Tagged bottom at 1260'.
8:00	9:15	1.25	Core 1260' - 1275'. Kept penetration slow to try and recover more of core. Stopped to preserve prior core possibility.
9:15	13:30	4.25	Pull out of hole with core barrel. Lay down core on surface. Lay down coring tools. Recovered 30' of material. bottom 6' was chunks of rock, majority of the remainder was drilling mud with pulverized rock mixed in.
13:30	15:00	1.50	RIH with 6-1/4" bit.
15:00	21:00	6.00	Cleanout and drill from 1270' (5' fill) to 1563' (TD). POOH.
21:00	1:00	4.00	✗ RU Weatherford logging. Run GR/Den/Neutron/Sonic/Resistivity from TD to 350'. RD Weatherford.
1:00	3:00	2.00	RIH to TD with drill pipe. Circulate and prepare to plug.
3:00	5:00	2.00	✗ RU Sanjel. Cement hole from TD to surface with 408 sx Class G cmt + additives.
5:00	7:30	2.50	Rigging down and preparing for trucks. Began trucking loads off location before sunrise.. Rig will be moved off location on 12/24/07.

TD of 1563' prior to plugging

Weather note: cloudy and snow flurries but slightly warmer

GL = 6341.4', KB = 6'

Total 25.50

Report by Dave Jensen Date December 24, 2007 6:00 AM

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**Genesis Gas & Oil LLC.
Maybell 12-9-7-95
1528' FSL, 457' FWL
Section 9 T7N R95W
Moffat County, CO.**

Sample Descriptions



**Laramide Geosciences, LLC
5951 S. Middlefield Rd., Suite 205
Littleton, CO 80219
303 980-6770**

January 8, 2008

Submitted by Kristine Peterson

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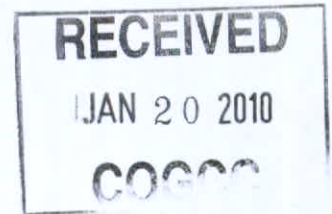
COGCO

Disclaimer

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Genesis Gas & Oil LLC.

Maybell 12-9-7-95
1528' FSL, 457' FWL
Section 9 T7N R95W
Moffat County, CO.



Executive Summary

The objective of the Maybell 12-9-7-95 was to obtain coal core samples from the Almond Formation. The nearest wellbore, the Maybell 9-7-7-95 is located approximately 1.33 miles west in Section 9, T7N R95W. Surface dips in the area are close to 50°. A small "drilling window" exception to the winter range lease stipulation was granted by the BLM. Drilling operations had to be ceased by December 24, 2007.

Drilling from surface commenced about 8:30 on December 22, 2007. Cutting samples were caught with a strainer as the end of the mud return pipe above the ditch to the mudpit. There was no shaker and the samples were generally either large fragments or loose grains in a mud gumbo.

Drilling times were very rapid, averaging 0.3 to 1.0 min/ft, with an average time of less than 0.5 min/ft. A plot of drill time was made on the same scale as the mudlog for the Maybell 9-7-7-95, as the well progressed, in hopes of assisting with correlations. The Maybell 9-7-7-95 was drilled with a rig that initially had no depth control and numerous Totco problems once installed. This made drill rate correlation suspect at best.

The decision to commence coring at 1230' as a correlation with 1215' in the Maybell 9-9-7-95 wellbore was based upon four factors:

- ◆ Water seepage into the wellbore between 650 and 700', the Maybell 9-9-7-95 experienced seepage while drilling at 608'.
- ◆ Two "hard" streaks (drill times of almost one min/ft) at 1012 and 1026'.
- ◆ The first appearance of black carbonaceous shale in the sample from 1037 – 68'.
- ◆ The appearance of white sandstone in the sample 974 – 1006'.

Core # 1 was drilled from 1230 to 1260', recovery was 6.6 feet, suspected to be from the last interval drilled. The core barrel for Core #2, 1260 – 1275', was believed to have over-gloved 8' of previous core based upon its response when entering the wellbore. Fifteen feet were cored in an attempt to recover a portion of the previous core, provide a competent seat and maximize recovery in the limited drilling window. The recovery was drilling mud emulsified with shale. The gelatinous mass was literally poured into core boxes, sometimes with difficulty as material was "setting" in the barrel. This is believed to be the result of drilling

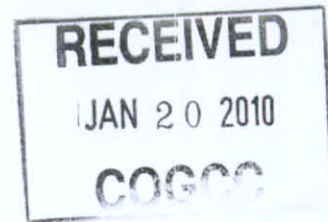
into a shale that developed beneath the carbonaceous shale and coal where the first core barrel unfortunately ended and jammed. The drilling fluid and shale emulsified. A few competent shards of coal and shale were "fished" from the jelled mass and saved in sample bags.

Although coring operations were disappointing the open hole logs recorded 66.26' of coal based upon a 2.0 gm/cc density cutoff and the presence of gamma ray activity. This thickness is divided into 18 seams. The coal observed in the open hole logs in the upper portion of the hole was poorly represented in the cuttings. The composite seam displayed on the open hole logs from 872 to 882', in particular, appeared to be carbonaceous shale, with little vitrinitic material and luster. This interval may be very ashy. The deeper the well progressed the better the coal samples became which may be a result of increasing viscosity of the mud.

Although the stratigraphy and exact correlations are challenging from one well to the next the Maybell 12-9-7-95 confirmed:

- ◆ That coal does appear to increase towards the east, at least in the Almond interval.
- ◆ The presence of seven thick (greater than 4') seams at shallow drilling depths.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
1528' FSL, 457' FWL
Section 9 T7N R95W
Moffat County, CO.



Sample Description:

Ditch samples, no shaker, often large chips or disaggregated grains

418 – 448 – cement, drilling mud, poor sample
448 – 479, Ss, md gy, fg – vfg, w rd, calc, mod sort, NFC
479 – 508, Ss, md gy, fg – vfg, w rd, calc, mod sort, NFC, poor sample
508-537, Ss, md gy, fg – vfg, wl rd, mod sort, s&p, sm rip up clasts of carb material, NFC
537-600, Ss, 50% grains, fg,qtz, wl rd, 50% med gy, fg, hd, calc, some wispy lam, pyr, NFC
600 – 631, Ss. med gy, fg, hd, calc, some wispy lam, 60% well cemented, hard, NFC
631-662, Ss. md gy, vfg, sub rd, poorly sort, wispy lam, calc, pyr, NFC
662-693, Ss. md gy, vfg, sub rd, poorly sort, calc, pyr, small bivalve segment? NFC
693- 725 – Ss., md gy, vfg, sub rd, poorly sort, calc, pyr, 30% loose grains, NFC
725-756, Ss., A.a.
756-787, Ss. A.a.
787-819, Ss. md gy, fg – vfg, sub rd, calc., glauc, s&p, few pieces w. lam, NSF
819-850, Sh 10% dk blk, lam, mic, blk, pyr, 90% Ss, Ss. md gy, fg – vfg, sub rd, calc., glauc, s&p, few pieces w. lam, siderite cube? NFC
850 – 881, Sh, blk, shiny, abn pyr, siderite cubes?, 30 – 40%, Sh, Ss, A.a. NFC
881 – 912, Sh, A.a., SS. md gy, vfg, sub rd, calc, poorly sort, s&p, glauc, sid, some lam, pyr, NFS
912 – 943, Sh A.a. 5%, Ss., md gy, vfg, sub rd, s&p, calc, pry, glauc, some lam, NFS
943-974, Sh, 5% A.a., Ss. md wh, loose vf grains, sub rd, poorly sort, calc, sid? NFS
974-1006, Ss, wh, fg-vfg, calc, poorly sorted, abn calcite, fracture filling? NFS
1006-1037, Ss, wh fg-vfg, sub rd, poor sorting, abn calcite, 30% hd, remainder disaggregates, NSF
1037 – 68, Ss, md gy to wh, vfg, sb rd, s&p, blk carb shale, NFC
1068-99, Ss, md gy, vfg, s&p, carb lams, pyr, calcite frags, calc
1099-1130, Ss, md gy, vfg, subrd, wispy carb lam, s&p, wkly calc, siderite cubes?
1130 – 1161, Ss, wh, vfg, subrd to rd, wkly calc, hd, poorly sorted, tr carb Sh
1161-1192, Ss, wh to md gy, vfg, sbrd, calc, some w/carb lams, NFC
1192 – 1223, Ss, wh, vfg, sbang to sbrd, poorly sort, s&p, calc, pyr, tr blk carb Sh
1223 – 1230, 70% Ss, wh, fg, subrd, poorly sort., s&p, calc, hd, 30% slst-Sh, dk gy, dk wispy lam, non calc, frac min fill on part, NFC

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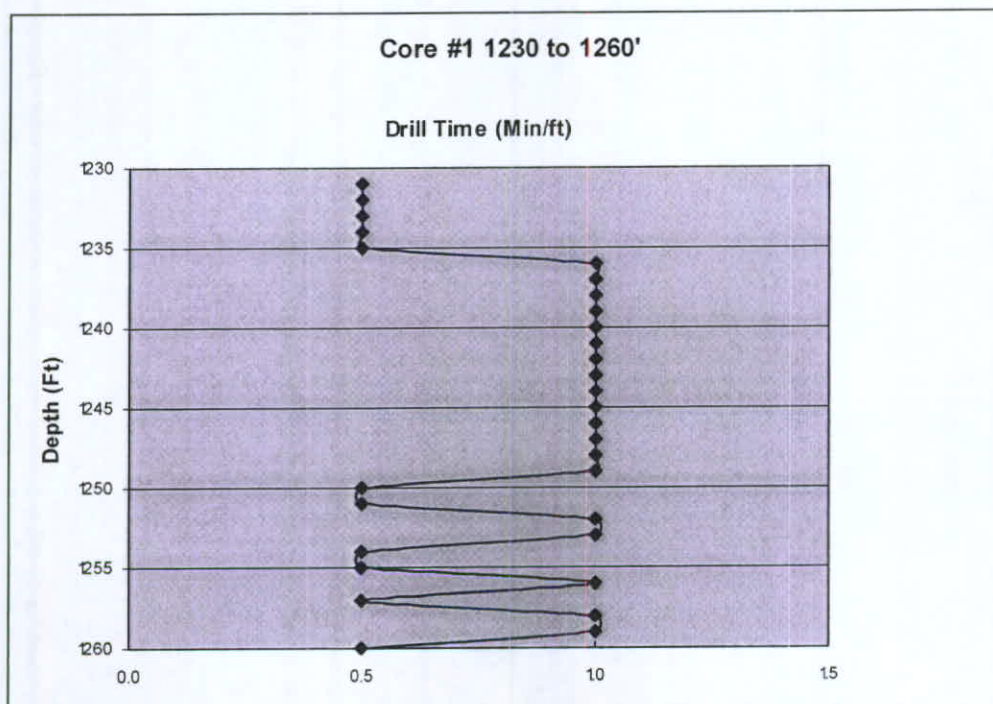
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Maybell 12-9-7-95
1528' FSL, 457' FWL
Section 9 T7N R95W
Moffat County, CO.

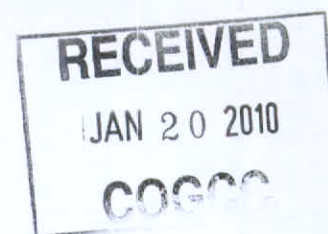
Core #1 – 1230 to 1260', cored 30', recovered 6.6', barrel jammed, recovery believed to be last drilled.

Drill times, core #1:

1230 – 1231, 0.5 min	1245 – 1246, 1 min
1231 – 1232, 0.5 min	1246 – 1247, 1 min
1232 – 1233, 0.5 min	1247 – 1248, 1 min
1233 – 1234, 0.5 min	1248 – 1249, 1 min
1234 – 1235, 0.5 min	1249 – 1250, 0.5 min
1235 – 1236, 1 min	1250 – 1251, 0.5 min
1236 – 1237, 1 min	1251 – 1252, 1 min
1237 – 1238, 1 min	1252 – 1253, 1 min
1238 – 1239, 1 min	1253 – 1254, 0.5 min
1239 – 1240, 1 min	1254 – 1255, 0.5 min
1240 – 1241, 1 min	1255 – 1256, 1 min
1241 – 1242, 1 min	1256 – 1257, 0.5 min
1242 – 1243, 1 min	1257 – 1258, 1 min
1243 – 1244, 2 min	1258 – 1259, 1 min
1244 – 1245, 1 min	1259 – 1260, 0.5 min



Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered



Lithology listed from top of recovery:

2.5 ft fit core, Ss, vertically fractured, inclined carbonaceous laminations and inclined bedding (30 to 35°), md gy, f to vfg, subrd, s&p, poorly sort, calc, carb lam, gradational inclined basal contact

0.6 ft, fair fit core, Coal, blk, shaley to carb shale, some with vit luster and developed cleat, gradational basal contact

0.6 ft fair fit core, Sh, blk, carb, abn vit lam, increasing gradational shaliness towards base, non calc

2.0 ft poor to rubble fit core, Sh, blk, non calc, some carb material

0.5 ft rubble fit core, Coal, blk, ashy, fairly dense, vit woody structures and possible leaf structures visible, poor luster

0.4 ft rubble fit core, Sh, blk, non calc, some carb material

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Genesis Gas & Oil LLC.

Maybell 12-9-7-95

Core #1, 1230 to 1260' cored, 6.6' recovered



Overall view of Core #1

Actual depths believed to be 1255 to 1260'

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

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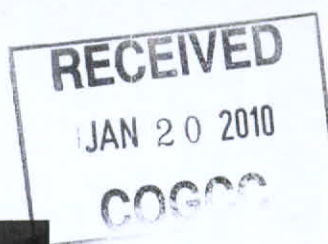
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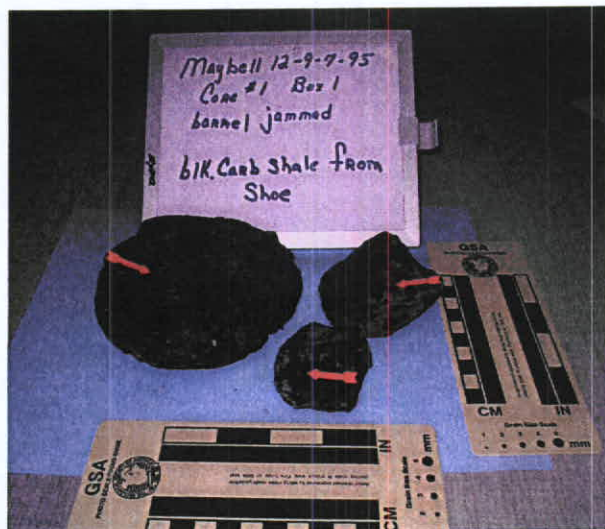
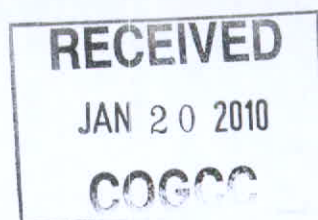
Top of Core 1, box 1.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

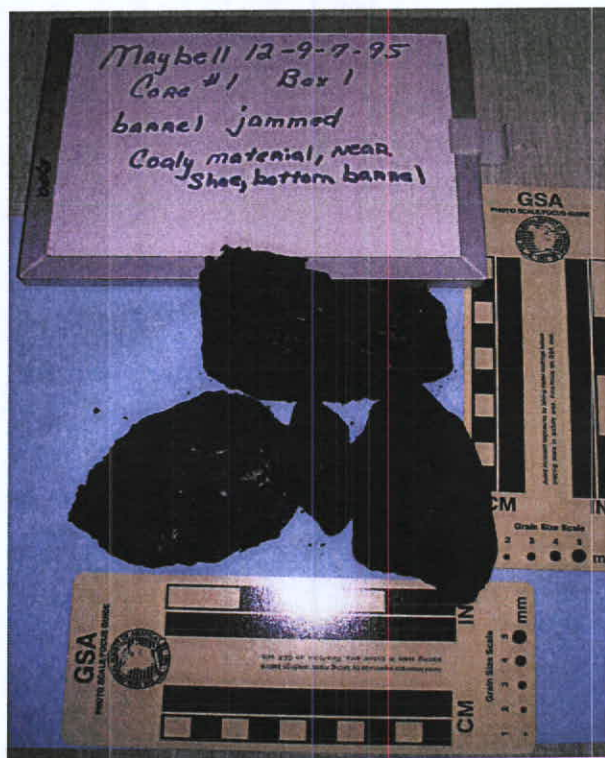


Close up of base of Core #1

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

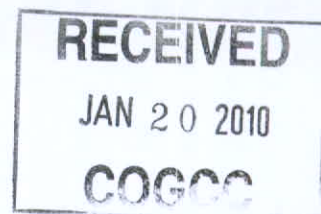


Carbonaceous shale from shoe, orange arrows point to vitrinitic material.



Coal from near bottom of shoe

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered



Carbonaceous black shale.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

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Sandstone with inclined bedding and contact with underlying coaly material.

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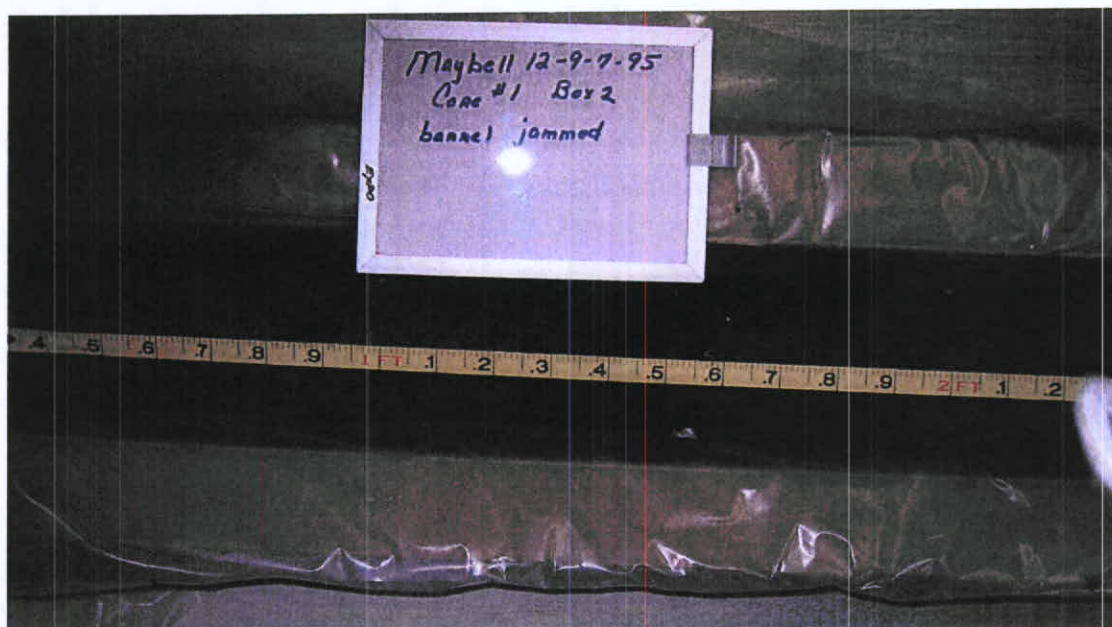
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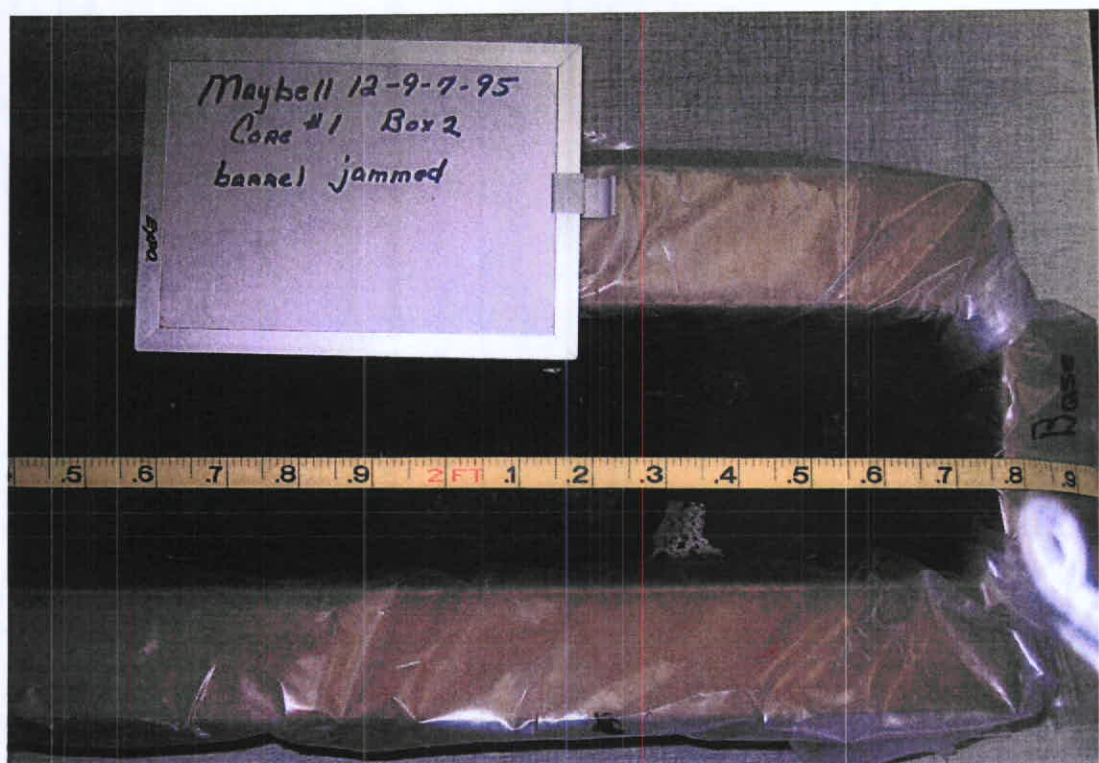
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Maybell 12-9-7-95

Core #1, 1230 to 1260' cored, 6.6' recovered



Carbonaceous partings and contact of sandstone and coal.



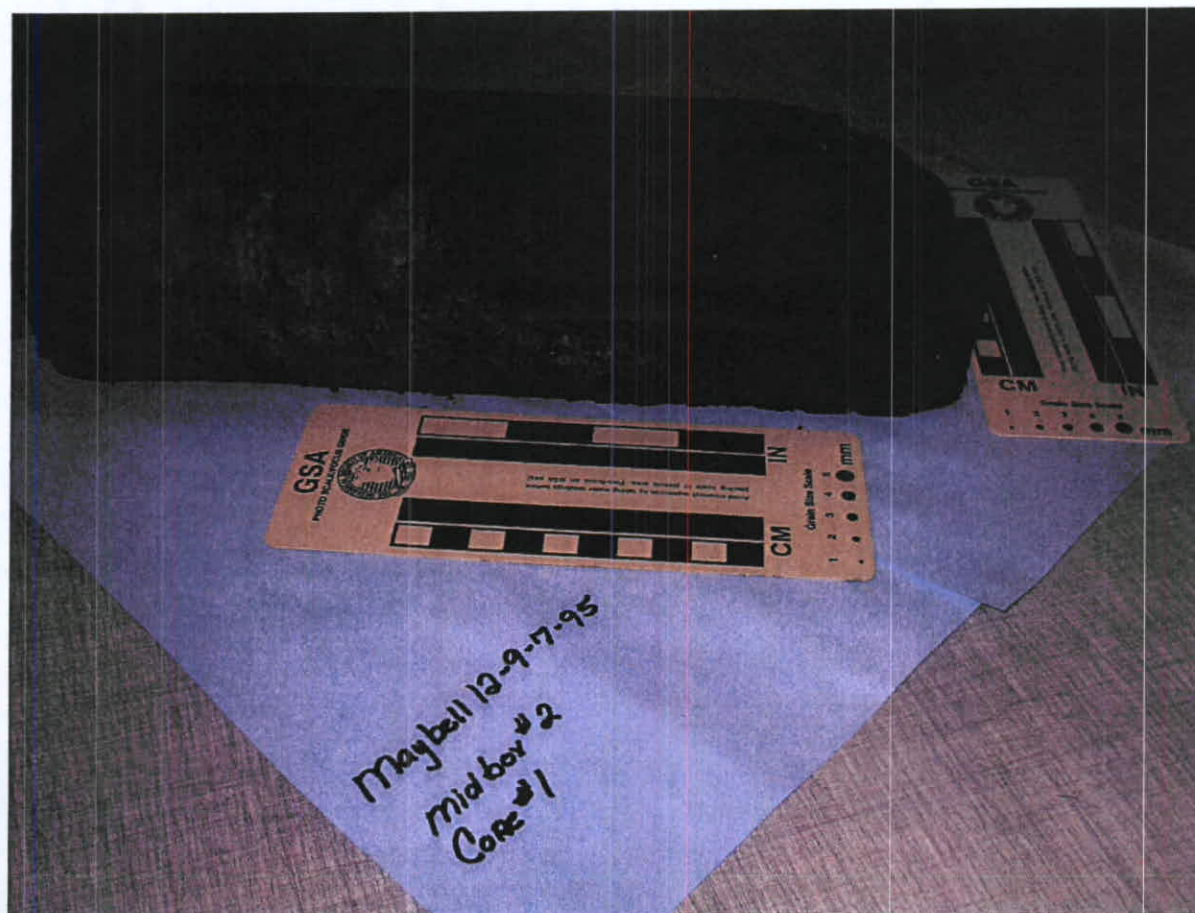
Close-up of carbonaceous shale, coaly material.

Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

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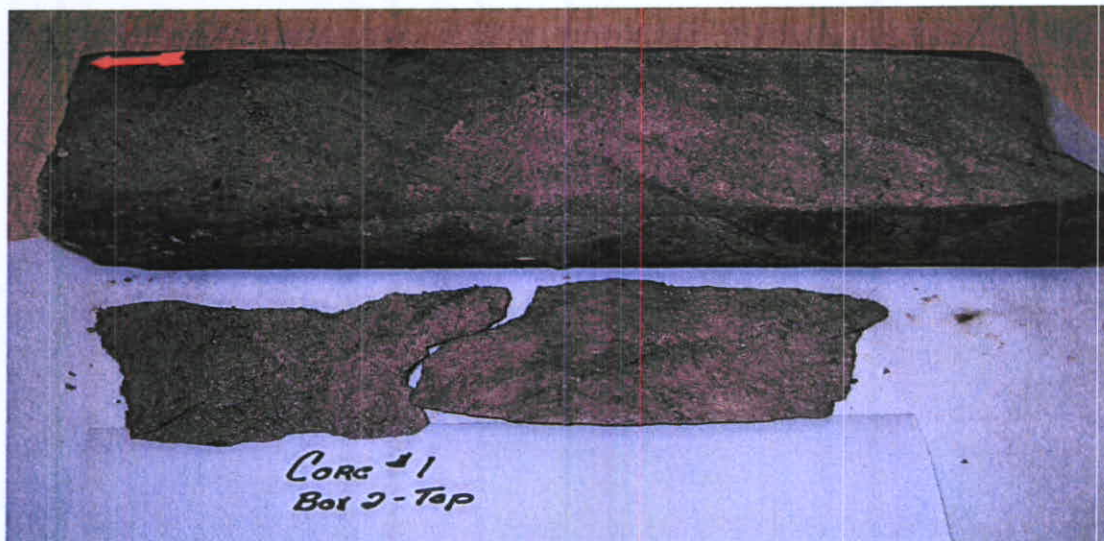
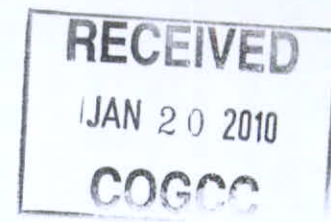
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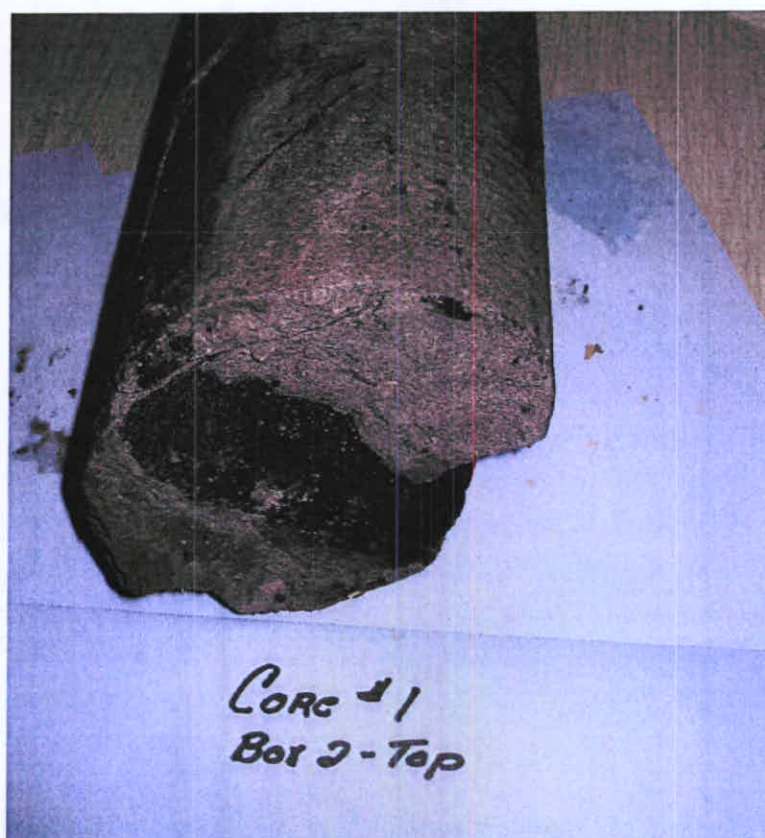


Wavy carbonaceous partings and transition to coal, vitrinitic material with some minor cleating.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered



Vertical fracture face showing inclined carbonaceous partings, red arrow points to top.



Vertical carbonaceous parting, lithology appears to control vertical fracturing.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

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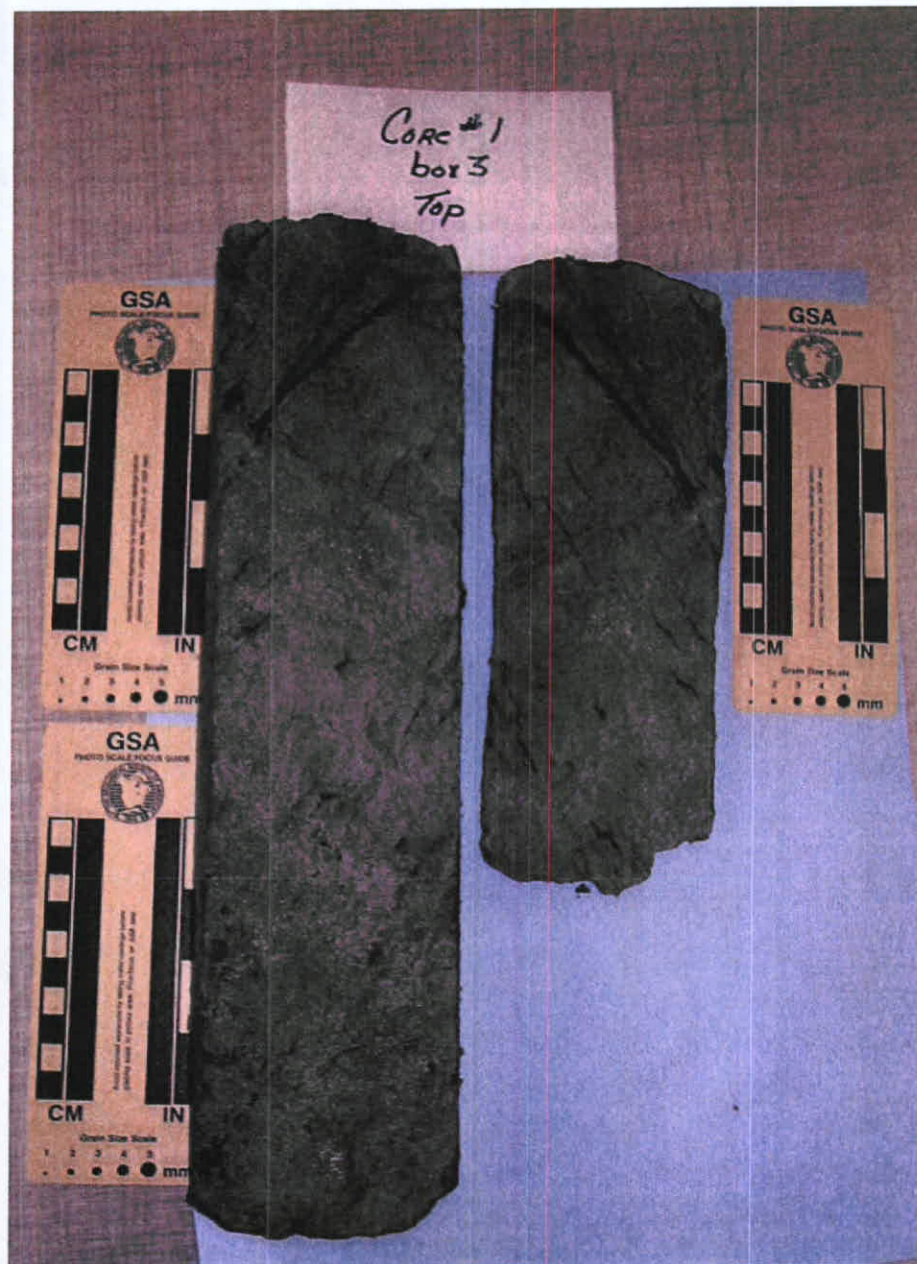
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Large vertical fracture in sandstone.

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #1, 1230 to 1260' cored, 6.6' recovered

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Vertical fracture face, inclined carbonaceous drapes and bedding.

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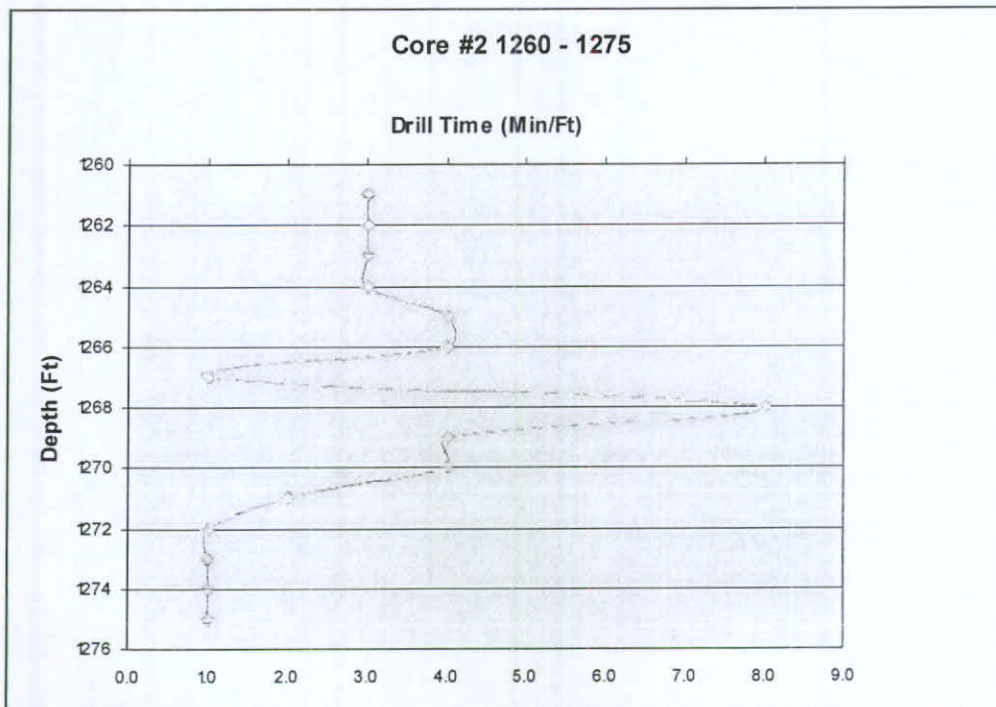
COGCC

Genesis Gas & Oil LLC.
Maybell 12-9-7-95
1528' FSL, 457' FWL
Section 9 T7N R95W
Moffat County, CO.

Core #2 - 1260 – 1275, believed core barrel over-gloved 8' of previous core, cored 15', recovery drilling mud emulsified with shale and coal, fished through the gelled material for any competent core shards, put in sample bag for each box, recovery literally poured into core boxes, see attached photos, drill times.

Drill times, core #2

1260 – 1261, 3 min	1268 – 1269, 4 min
1261 – 1262, 3 min	1269 – 1270, 4 min
1262 – 1263, 3 min	1270 – 1271, 2 min
1263 – 1264, 3 min	1272 – 1273, 1 min
1264 – 1265, 4 min	1273 – 1274, 1 min
1265 – 1266, 4 min	1274 – 1275, 1 min
1266 – 1267, 1 min	
1267 – 1268, 8 min	
1271 – 1272, 1 min	

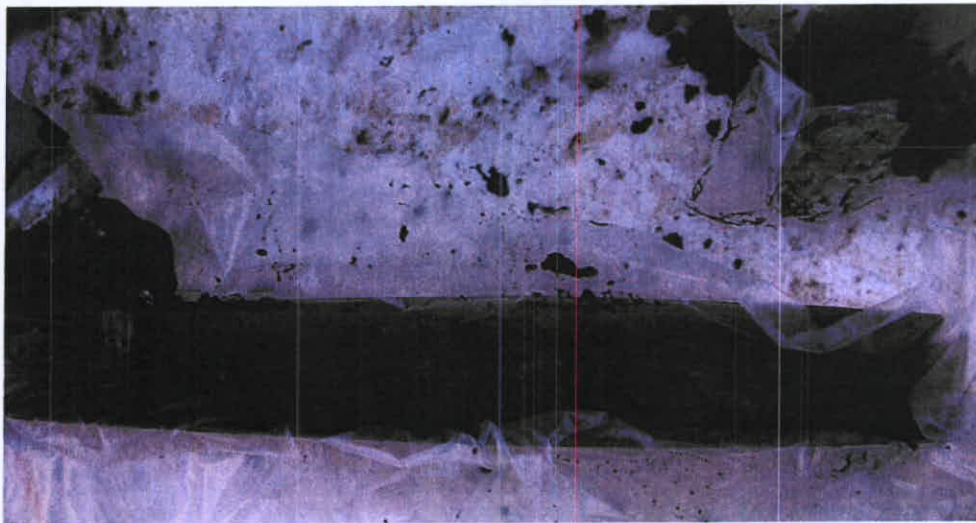


Genesis Gas & Oil LLC.
Maybell 12-9-7-95
Core #2, 1260 to 1275

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**Core No. 2 ,jellified mud and shale, poured recovery from barrel.
Occasional competent shards of shale and coal found in mass.**

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Sample description, continued:

1275 – 1284, Ss, md gy, vfg, subang to subrd, poorly sort, s&p, calc, tr carb lam, tr coal, blk, vit, tr calc blk Sh, NFC

1284 – 1315, 50% Ss, md gy, vfg, subang to subrd, poorly sort, s&p, calc, tr carb lam, 50% Ss to sltst, dk gy, vfg, non calc, unknown pink, non-calc, frac lining fill on surfaces, tr pyr, tr Coal, blk, vit, NFC

1315 – 1347, Ss, wh-mf gy, vfg, subang – subrd, poorly sort, s&p, calcite frac fill, NFC

1347 – 1378 Ss, wh-mf gy, vfg, subang – subrd, poorly sort, s&p, calcite frac fill, NFC

1378 - 1409, 50% Ss, wh-mf gy, vfg, subang – subrd, poorly sort, s&p, calcite frac fill, 50% Sh, blk, carb, tr Coal, blk, vit, conc frac, Sh has pinkish mineralization on some surfaces, NFC

1409 - 1441, 50% Ss, wh-mf gy, vfg, subang – subrd, poorly sort, s&p, calcite frac fill, 50% Sh, blk, hd, carb, tr Coal, blk, vit, conc frac, Sh has pinkish mineralization on some surfaces, NFC

1441– 1472, Ss, wh, fg, subang – subrd, s&p, friable, non calc, some carb lam, tr coal, blk, vit, some cleat, pry, tr siderite? NFC

1472 -1503, Ss, wh, vfg, wlrd, non calc, lam in part, Coal, blk, vit, some cleat, NFC

1503-1534, Ss, dk gy, vfg, subang – rd, poorly sort, wispy lam, non-calc, Coal, blk, vit, some cleat, NFC

1534-1545, 50% Ss, wh, vfg, subrd, poorly sort, wkly calc, 50% Ss, md gy, vfg, subrd, wispy lam, wkly calc, NFC

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Key to Abbreviations

A.a.	as above
abn	abundant
blk	black
blky	blocky
calc	calcareous
carb	carbonaceous
conc	concordial
dk	dark
fg	fine grained
fos	fossil (ized)
frac	fracture (ed)
frags	fragments
glauc	glauconite
gy	gray
hd	hard
lam	laminae (ted,tions)
md	medium
mic	micaceous
min	mineral (ized)
NFC	no fluorescence or cut
pry	pryite
Ss	sandstone
Sh	shale
s&p	salt and pepper appearance
sid	siderite (ic)
slst	siltstone
sort	sorted
subang	subangular
subrd	subrounded
tr	trace
vfg	very fine grained
vit	vitritine (ic)
wh	white
wl	well
wkly	weakly