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Vecta Oil and Gas, Ltd
Dallas, TX

Grays No.23-27

**NE SW Sec.27-T13S-R47W
Cheyenne Co., CO
December 30, 2009**

Wellsite Geology

by

**Randy Say
Arvada, Colorado**

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Well Summary

The Vecta Oil and Gas, Ltd, Grays No.23-27 [NE SW Sec.27-T13S-R47W, Cheyenne Co., CO] was drilled to a Total Depth of 5594'(-1253') as a east end offset well of the Mount Pearl Field [refer to Maps, pages 5-7]. The primary objective of the Grays No.23-27 was the Morrow Middle V7 Sand of the Pennsylvanian Morrow Shale formation, which is the primary producing zone in the Mount Pearl Field [see map, page7]. The Mount Pearl Field produces from the Morrow V7 Sand as primary objective with secondary objectives from the Pennsylvanian Lansing, Marmaton, Cherokee, Keyes, and the Mississippian St. Louis, Spergen, Warsaw, and the Osage formations. Trapping mechanisms are a combination of structural and stratigraphic. The Morrow shale section thicknessin the Grays No.23-27 area is around 190' with the V7 Sand developing 100' from the top of the Morrow Shale. Page 7 of this report is a copy of an article from the RMAG 1990 Guidebook, "Morrow Sandstones of Southeast Colorado and Adjacent States",that shows the location of the Mount Pearl Unit within the Mount Pearl-Sorrento complex. The Grays No.23-27 is located on the eastern edge of the Mount Pearl Unit.

All tops listed below are electric log. There was a 4 foot uphole depth correction made from the driller's depth to the electric log depth.

The VECTA Grays No.23-27 developed a 22 foot V7 Sand zone [5312'-5334'(-971')(22'), "elog depth"]. The well plan to evaluate the primary objective, the V7 sand, for the Grays No.23-27 was to drill 98' below the top of the Morrow Shale 5204'(-863'), and go in with a 60' core barrel and begin coring in the shale just above the V7 Sand section. The 60' core barrel if it obtained a full recovery, would then core the entire Morrow V7 Sand section. After the core was recovered, then a DST would be run over the V7 sand section.

The Grays No.23-27 reached a core point depth of 5298'. Core No.1 5298'-5323'(25'), was taken after a series of drilling difficulties. Without going into details, [See engineer's report for full details], the core reached a depth of 5323' and circulation was lost, leading to the core barrel getting stuck. The core barrel was jarred within standard time frames and would not come loose. 40 barrels of oil was then spotted and the core was then released and tripped out and laid down. All 25 feet of core was recovered. The core sleeve was cut into 3 foot sections with chip samples taken from the ends [see Page 23 Core No.1 Description]. Due to the difficulties in getting the core barrel stuck and retrieved, the decision was made to not try to core the remainder of the potential V7 sand section. Instead, the decision was made to drill 10 more feet [5324'-5334'], circulate, and then run a DST to evaluate the V7 sand zone. A more detailed Core No.1 Description is listed along with the following 10' drilled section below the base of Core No.1 [see Page 23]. The electric logs showed the V7 sand to be 5312'(-971')-5334'(-993')(22'); see Pages 10-13; Grays 23-27 electric log sections for details. The Grays 23-27 V7 was basically composed of an upper, finer grained, tighter porosity [15-18%], and a lower, coarse grained, high porosity [17-25%] zone. A composite sample description of each zone is listed below, with the upper zone description coming from Core No.1, and the lower zone description coming from drilled cuttings.

Morrow V7 Sand Upper Zone 5312'-5322'(-971'(10')

SS ltan f-vfg-occ tr mg; firm-occ fri; sbang msrt; silcmt; decr amt cly mtrx; glau; mica & carb mat in vthin sh lams; tr vf dissem pyr; por-fr; oilstn-incr spotted dkbrn oilstn, no vis live oil, oil odor on fresh break; flor-myel; cut-immed strm m-briyel; res-vis ltan oilstn in dish

Well Summary

Morrow V7 Sand Lower Zone 5322'-5334'(-971'(12')

SS tan-clr m-incr cg clus w/incr in m-cg uncon grs; sbang-sbrd msrt;; loosely cemented w/sil; cln mtrix w/tr cly mtrix, no glau or mica, rare tr pyr in clus; decr amt carb lams; por-g-fr; oilstn-tan sat stn in clus; flor-m-briyel in clus w/m-briyel flor on uncon m-cg loose grs; cut-immed strm m-briyel on clus w/ooc milky halo cut on uncon grs; res-tan res in dish

There were three DST's run over the V7 sand section. DST No.15317'-5337' was a misrun. DST No.2 5170'-5337'(167') recovered 90' of drilling mud and no oil or gas, with an initial shut in pressure of 227#, [see pages 24-27 for DST results]. DST No.3 was run over a narrower interval since DST No.2 appeared to have inconclusive results. The hole was drilled to 5352' and DST No.3 was run over the interval 5340'-5352' and recovered 10' of drilling mud and an initial shut in pressure of 504#. Both DST No.2 and were considered inconclusive when compared to the good sand development in the core and sample cuttings. The well was then drilled ahead to TD[5594'] and electric logs were run. After electric logs were run, it was decided that production casing would be run on the strength of the high porosity and favorable log parameters, the shows and lithology of the core and cuttings samples, and the prior knowledge of the V7 sand characteristics in the adjacent wells in the Mount Pearl Field.

The Grays No.23-27 had 5.50" production casing run to TD[5588'] after samples, gas, DST, and electric log data were evaluated. As of 12/30/09, the status of the Grays No.23-27 production data is ongoing.

Zone Descriptions

The Grays No.23-27 developed several other shows zones in the Marmaton section. The top of the Marmaton was 4719'(-378'), with three marginal shows developing in the interval 4650'-4820'. After samples and electric logs were evaluated, these three shows were determined to be nonproductive.

The only other zone that had productive potential was the Mississippian Spergen zone 5450'-5480'(-1109')(30'). The Spergen zone was a granular, sucrosic, dolomite with 20% fluorescence and cut, but no oil staining or live oil. No gas increase was recorded over the zone. The electric logs showed some productive potential with marginal porosity, but with a good microlog separation. As of the writing of this report, there were plans to test the Spergen zone through casing to evaluate it's potential.

The VECTA Oil and Gas, Grays No.23-27 had production casing run on 1/1/10 after DST, electric log, core, ample, and gas data were evaluated

Total Depth Driller	5594'(-1253')
Total Depth Electric Log	5588'(-1247')

Well Data

Operator: VECTA Oil and Gas, Ltd.

Well/API No.: Grays No.23-27 ; API No.05-017-07690

Status: Production casing run 12/31/09.

Location: 1667'FSL 1528'FWL NE SW Sec.27-T13S-R47W, Cheyenne Co.,CO
Latitude 38.88584/ Longitude -102.66181

Regional Setting: Las Animas Arch, Colorado

Field/Area: Mount Pearl Field

Spud/Completion: 12/11/09/ 12/30/09

Dates Logged: 12/12-30/09 [19Days]

Elevation: 4330'-Ground; 4341'-KB

Total Depth: 5594'(-1253')-Driller; 5588'(-1247')-Electric Log

Hole Size: 12.250"-375'; 7.825"-5594'-TD

Casing: 8.625"-374'-Surface; Production casing - 5.50"-5594'

Drill Collars/Pipe: 6.25"/4.50"

Contractor: Black Gold Drilling, Rig No.69, Cheyenne Wells, CO

Geologist: Randy Say-Petroleum Geologist

Mud Company: Quality Drilling Fluids, Fort Lupton, CO

Mud Type: Chemical

Mudlogging: Wellsite Geologist monitored hotwire and chromatograph gas detection.

Samples: One lagged set of sample 400'-TD[5594'].

Electric Logs:
Logs Run: Schlumberger Well Services, Fort Morgan, CO
Array Induction 370'-5580'
LDT/CNL 370'-5580'
Microlog 370'-5580'
SONIC 370'-5580'
Triple Combo 370'-5580'

Well Data

Drill Stem Tests: Trilobite Testing, Hays, KS
DST No.1 5313'-5334'(20') Conventional Morrow V7 Sand-Packer Failure

Ricketts Testing, Pratt, KS
DST No.2 5164'-5333'(167') Conventional Morrow V Sand-Successful Test

Trilobite Testing, Hays, KS
DST No.3 5336'-5348'(12') Conventional Morrow V7 Sand-Successful Test

Core: Core No.1 5298'-5323'(25')- Morrow V7 Sand

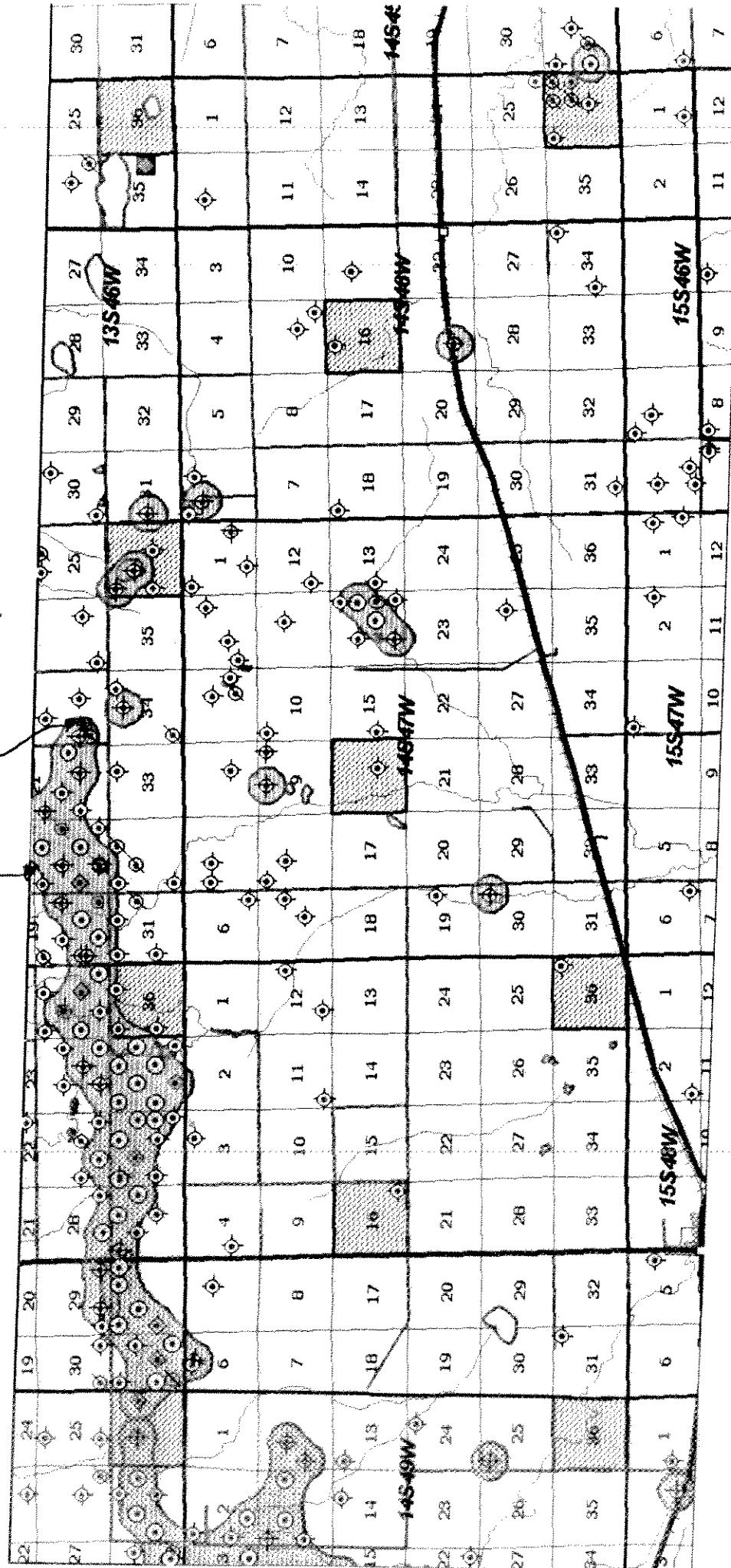
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VECTA Oil and Gas
Stays No. 23-27
NE 1/4 sec. 27-T-13 S.
Keyene Co., CO

Grays No. 23-27

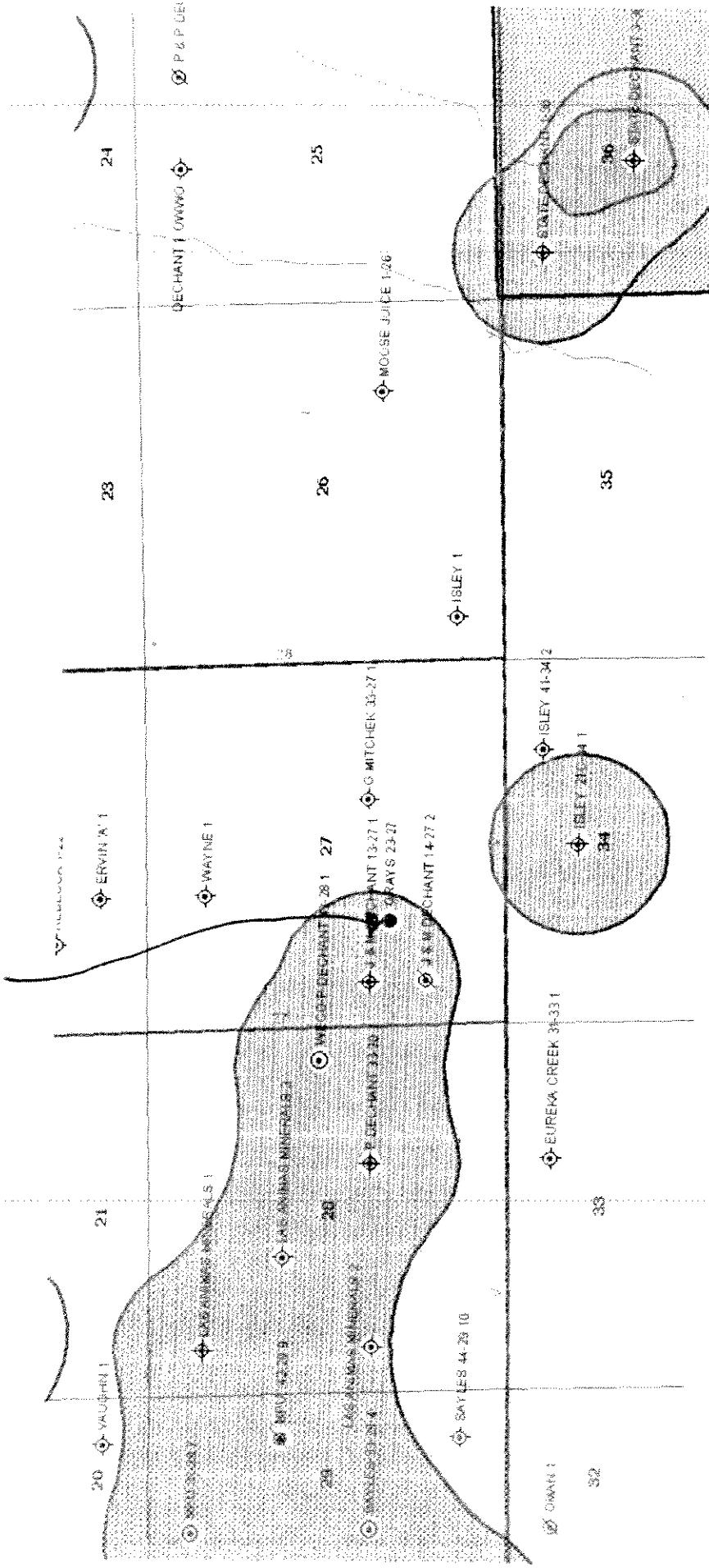
COTTON CO., CO.

Keyane Co., Co.



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Vecto Oil and Gas
Grays No. 27-27
NE SW Sec. 27-T135-R47W
Cheyenne Co., CO



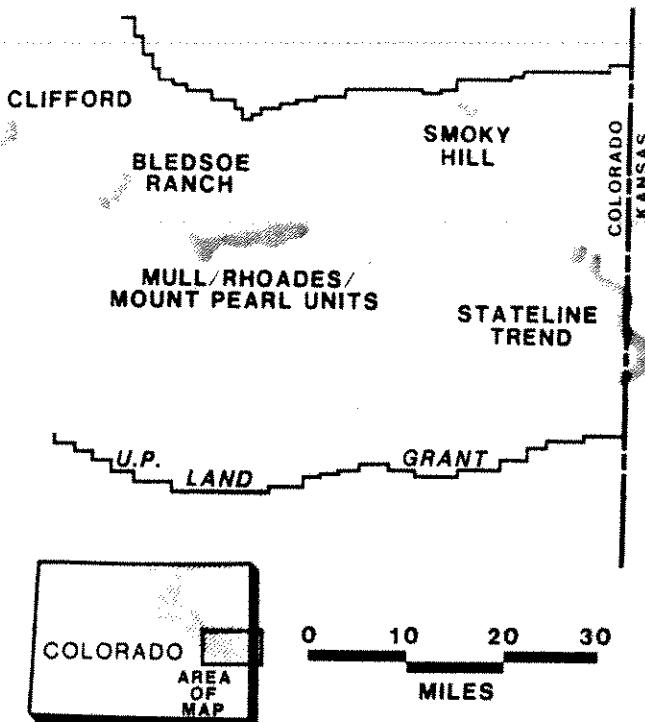


Figure 1. Major oil fields producing from Morrow sandstones in eastern Colorado.

Sorrento Field drilling had slowed significantly by 1984; exploration and development drilling had failed to extend production to the southeast along the linear trend established during Sorrento Field development. The reason for this was an abrupt change in direction of the producing trend to the east with the reservoir sandstone narrowing to the width of a 40-acre spacing unit. Mull Drilling Company completed a wildcat, the No. 1 Mitchek in the SE SE Sec 26, T13S, R48W to set off the development of Mt. Pearl Field in 1984. Infill drilling has since linked Sorrento and Mt. Pearl. Field limits of the producing complex are defined to the north,

south, and west with non-reservoir or water wet-wells. Recent drilling at the eastern end of the field indicates further development may yet occur as up-dip gas has been found in a correlative sandstone unit.

SYSTEM	SERIES	FORMATION	PRODUCING ZONES
PENNSYLVANIAN	VIRGILIAN		
	MISSOURIAN		
	DES MOINESIAN	Marmaton Cherokee	
MISSISSIPPIAN	ATOKAN		
	MORROWAN	MORROW Kayea Limestone	*
	MERAMECIAN	St. Louis Spurgeon Warsaw	• • •
OSAGIAN	HARRISON ST. JOE		
KINDERHOOKIAN			

Figure 3. Stratigraphic column of producing units, Sorrento-Mt. Pearl area (modified from Sonnenberg, 1985).

Pressure maintenance through gas re-injection began early in the life of the field to support reservoir energy. Three pressure maintenance units have been formed (Fig. 2). The Mull Unit began operations in October, 1984, the Mt. Pearl Unit in September, 1987, and the Rhoades Unit in September, 1988.

GEOLOGIC SETTING

The Sorrento-Mt. Pearl complex lies on the northwest flank of the Las Animas Arch, which exhibits regional dip northwest into the Denver Basin (Fig. 4). The Denver Basin formed as a result of Laramide tectonic events (Tweto, 1975), and was not present during Morrow time. The Las Animas Arch, however, has a complex structural history dating back to incipient growth in Paleozoic time. Rascoe (1978) showed the ancestral Las Animas Arch to be a broad positive feature dipping south-southwest from the Cambridge Arch in Nebraska.

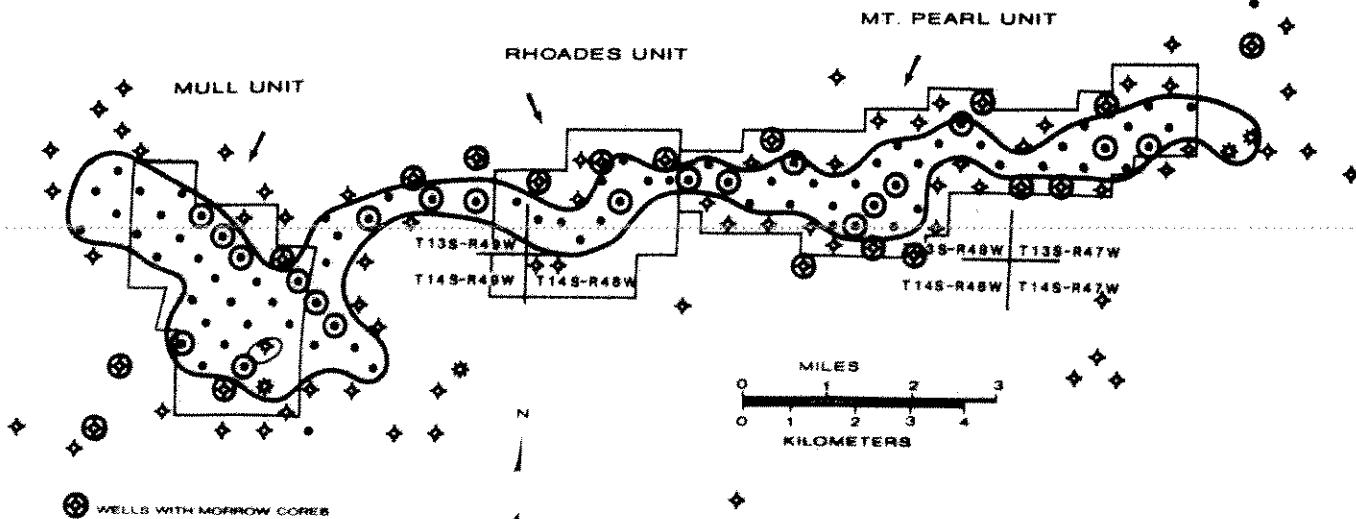


Figure 2. The Sorrento-Mt. Pearl field complex. Pressure maintenance units are labeled as are those wells with Morrow cores.

Correlation Sheet
Grays No.23-27

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Vector Oil and Gas, Ltd Grays No.23-27 No.1 1667 FSL 1528 PWL NE SW Sec.27-T13S-R47W Cheyenne Co., CO Wildcat LAT 38.88584 LON -102.66181 12/30/09										Anadarko E&P J & M Dechant 13-27 No.1 1977 FSL 6555 PWL NW SW Sec.27-T13S-R47W Cheyenne Co., CO Mount Pearl Field LAT 38.88644 LON -102.664944 10/8/88				Anadarko E&P G Mitchek 33-27 No.1 1980 FSL 1980 FEL NW SE Sec.27-T13S-R47W Cheyenne Co., CO Mount Pearl Field LAT 38.886714 LON -102.655574 11/8/88				
TIME STRATIGRAPHIC	ROCK STRATIGRAPHIC	ELOG	SAMPLE	KB	ELOG	KB	THICK	Elevation	ELOG	KB	THICK	ELOG	KB	THICK				
Cretaceous	Niobrara			4341		4341		No.1	No.2			4346		4344				
	Fort Hays	643	640	3701	634	3707		3	27	642	3704			664	3680			
	Codell	1286	3055	1278	3063	1280	2961	13	5	1296	3050			1286	3058			
	X-Bentonite	1396	2945	1380	2961			9	1	1394	2952			1384	2960			
	Dakota	1792	1790	2551	1782	2579		13	5	1696	2450			1686	2458			
	Cheyenne Sand	2201	2190	2151	2182	2159		17	11	1784	2562			1776	2568			
Jurassic	Morrison			2380	1961	2372	1969		3	5	2192	2154			2174	2170		
Permian	Day Creek			2640	1701	2638	1703		3	5	2374	1972			2380	1964		
	Blaine	2858	2846	1495	2842	1499		-1	9	2846	1500			2854	1490			
	Cedar Hills	2959	2956	1385	2938	1403		-3	9	2940	1406			2950	1394			
	Stone Corral	3115	3106	1235	3104	1237	36	-3	7	3106	1240	46	3114	1230	36			
	Stone Corral-Base	3144	1197	3140	1201			7	7	3152	1194			3150	1194			
	Wolfcamp																	
	Chase			3342	999	3326	1015		15	27	3346	1000			3356	988		
	Neva			3737	604	3733	608		0	16	3738	608			3752	592		
	Foraker			3810	531	3806	535		-5	5	3806	540			3814	530		
Pennsylvanian	Virgil(Stage)																	
	Shawnee																	
	Topeka			4096	245	4096	245		-1	7	4100	246			4106	238		
	Topeka C																	
	Heebner Shale			4344	-3	4341	0		-6	6	4340	6			4350	-6		
	Toronto Limestone			4370	-29	4372	-31		-9	7	4368	-22			4382	-38		
	Lansing Kansas City			4399	-55	4391	-50		-6	8	4390	-44			4402	-58		
	Lower Lansing Porosity Zone																	
	Desmoinesian Marker																	
	Marmaton			4718	4720	-379	4719	-378	-4	6	4720	-374			4726	-384		
	Pawnee Member			4776	-435	4782	-441		-17	-11	4770	-424			4774	-430		
	Fort Scott Member			4836	-495	4830	-489		-1	-1	4834	-488			4832	-488		
	Cherokee			4888	4880	-539	4876	-535	-3	19	4878	-532			4898	-554		
	Aftoka			5069	5070	-729	5048	-727	5	21	5068	-722			5092	-748		
Morrow Series	Morrow Shale(SONIC)																	
	Morrow Shale(STRAT)			5209	5204	-863	5204	-863	190	5	21	5204	-858	186	5228	-884	186	
	V1 Valley Fill-Top																	
	V1 Sand																	
	V1 Sand-Base																	
	V1 Valley Fill-Base																	
	V3 Valley Fill-Top																	
	V3 Sand																	
	V3 Sand-Base																	
	V3 Valley Fill-Base																	
	V5 Valley Fill-Top																	
	V5 Sand																	
	V5 Sand-Base																	
	V5 Valley Fill-Base																	
	V7 Valley Fill-Top																	
	V7 Sand			5289	5314	-973	5312	-971	22	-7	5	5310	-964	18	5320	-976	25	
	V7 Sand-Base						5334	-993				5328	-982		5345	-1001		
	V7 Valley Fill-Base																	
	V9 Valley Fill-Top																	
	V9 Sand							5342	-1001	16		5346	-1000	20				
	V9 Sand-Base							5358	-1017			5366	-1020					
	V9 Valley Fill-Base																	
	V11 Valley Fill-Top																	
	V11 Sand																	
	V11 Sand-Base																	
	V11 Valley Fill-Base																	
	V13 Valley Fill-Top																	
	V13 Sand																	
	V13 Sand-Base																	
	V13 Valley Fill-Base																	
	Lower Morrow																	
	Keyes			5400	5396	-1055	5394	-1053		-9	17	5390	-1044		5414	-1070		
	Keyes Sand																	
	Keyes Sand-Base																	
Mississippian	St. Genevieve																	
	St. Louis					5424	-1083	5420	-1079		-5	9	5420	-1074		5432	-1088	
	Spergen			5449	5454	-1113	5450	-1109		-7	11	5448	-1102		5464	-1120		
	Warsaw																	
	Osage																	
	Harrison Shale																	
	St. Joe																	
	Kinderhook																	
Ordovician	Albion																	
	TOTAL DEPTH DRILLER			5590	5584	1253	5594	1253				5570	-1164		5509	-1168		
	TOTAL DEPTH STRAP																	
	TOTAL DEPTH ELOG														5510	-1166		

COGIS - WELL Information

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[Scout Card](#) [Related](#) [Insp.](#) [MIT](#) [GIS](#) [Doc](#) [Wellbore](#) [Orders](#)

Surface Location Data for API # 05-017-07690

Status: XX

Well Name/No: GRAYS #23-27 (click well name for production)

Operator: VECTA OIL & GAS LTD - 10267

Status Date: 12/6/2009 7:04:33 PM Federal or State Lease #:

County: # Location: NESW 27 13S 47W 6 PM
Field: MOUNT PEARL - #56770 Elevation: Unknown ft.

Planned Location 1667 FSL 1528 FWL Lat/Long: 38.88584/-102.66181 Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: XX 11/13/2009

Spud Date: N/A Spud Date is: PLANNED

Wellbore Permit

Permit #: Expiration Date: 12/5/2010 7:04:33 PM

Prop Depth/Form: 5700 Surface Mineral Owner Same: N

Mineral Owner: FEE Surface Owner: FEE

Unit: Unit Number:

Formation and Spacing: Code: MRRW , Formation: MORROW , Order: , Unit Acreage: , Drill Unit:

Casing: String Type: SURF , Hole Size: 12, Size: 12, Top: , Depth: 350, Weight: 24

Cement: Sacks: 275, Top: 0, Bottom: 450, Method Grade:

Casing: String Type: 1ST , Hole Size: 7, Size: 7, Top: , Depth: 5700, Weight: 15.5

Cement: Sacks: 175, Top: 4300, Bottom: 5700, Method Grade:

Wellbore Completed

Completion Date: N/A

Measured TD: Measured PB depth:

True Vertical TD: True Vertical PB depth:

Formation	Log Top	Log Bottom	Cored	DSTs
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No additional interval records were found for sidetrack 00.

Schlumberger

Company: Vecta Oil & Gas LTD

Well: Grays 23-27

Field: Mount Pearl

County: Cheyenne

State: Colorado

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Platform Express
Triple Combo

Field: Location: Well: Company:	Mount Pearl NESW Sec. 27, T13S, R47W Grays 23-27 Vecta Oil & Gas LTD
LOCATION	NESW Sec. 27, T13S, R47W SHL: 1667 FSL X 1528' FWL
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
API Serial No.	05-017-07690-000C
Section	27
Township	13S
Range	47W
Logging Date	29-Dec-2009
Run Number	1
Depth Driller	5504 ft
Schlumberger Depth	5508 ft
Bottom Log Interval	5500 ft
Op Log Interval	370 ft
asing Driller Size @ Depth	8.625 in @ 374 ft
asing Schlumberger	370 ft
Bit Size	7.875 in
Type Fluid In Hole	Gel and Chemical
Density	8.9 lbm/gal
Fluid Loss	pH
source Of Sample	Mud Pit
M @ Measured Temperature	2.280 ohm.m
MF @ Measured Temperature	1.710 ohm.m
MC @ Measured Temperature	3.420 ohm.m
ource RMF	RMC
MRT	RMF @ MRT
a. num Recorded Temperatures	130 degF
Circulation Stopped	Time
gger On Bottom	Time
lit Number	Location
Scored By	Tim Hoffman
the "n" By	.. 1 Go ..

Run 1

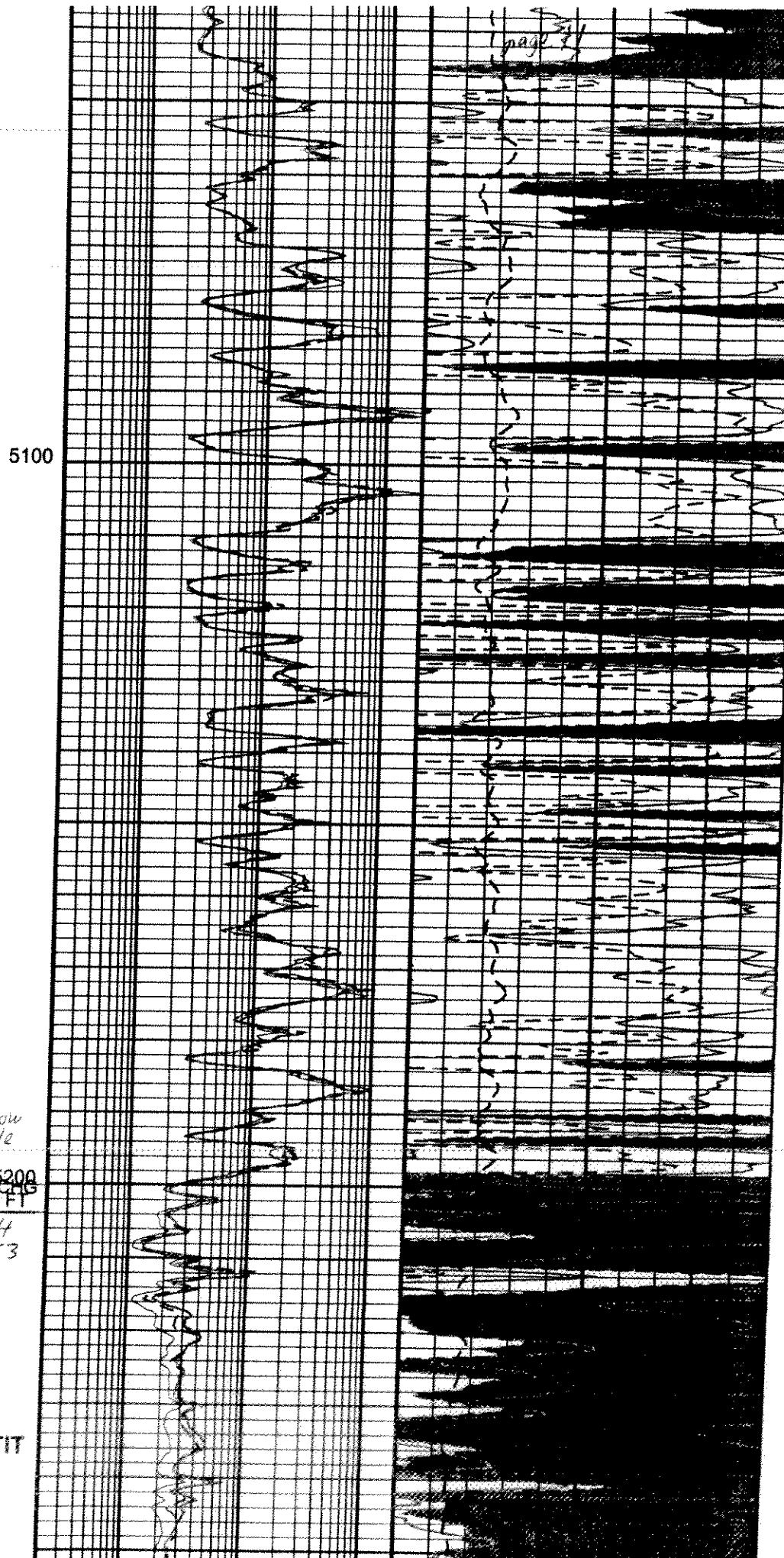
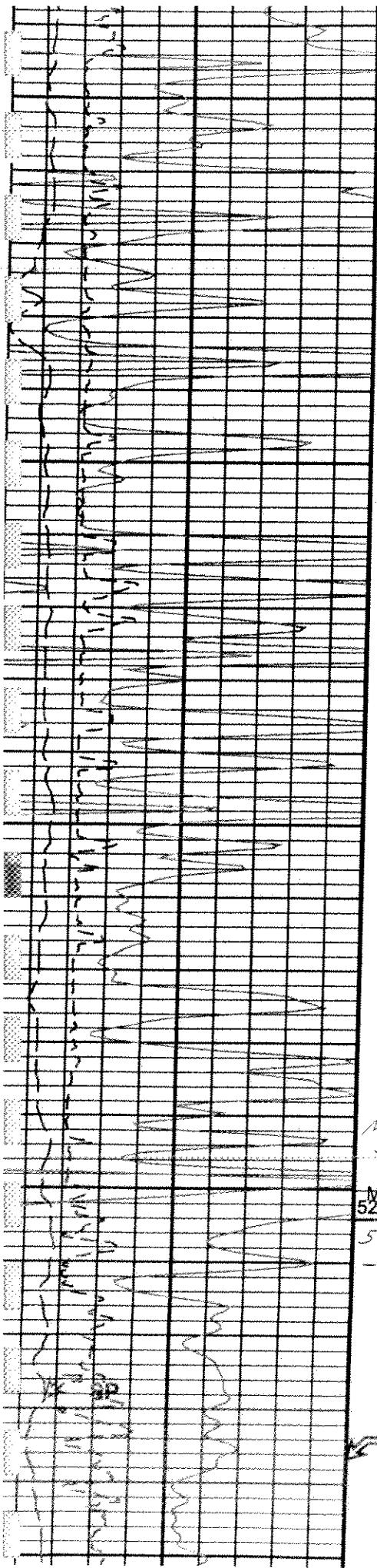
Run 2

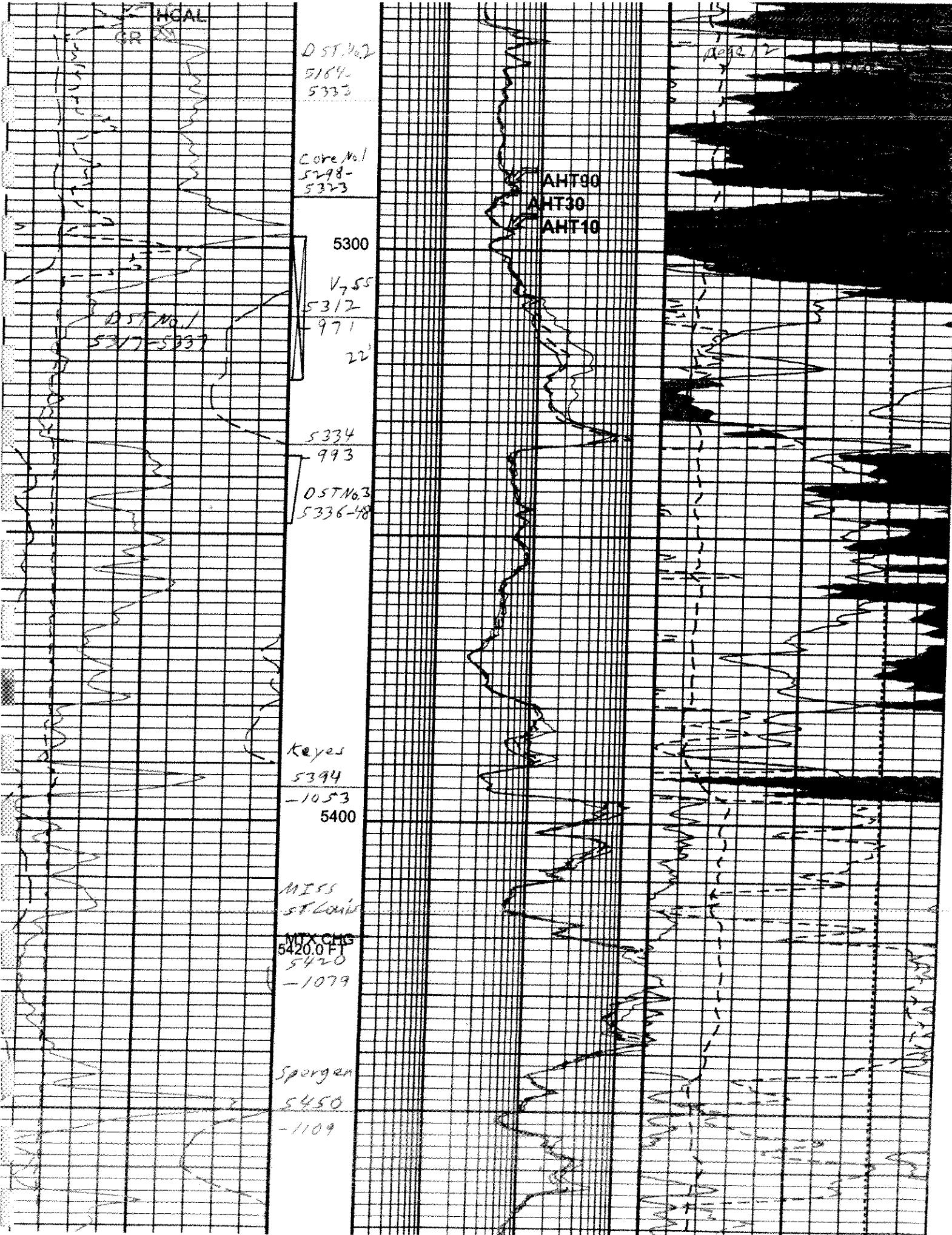
Run

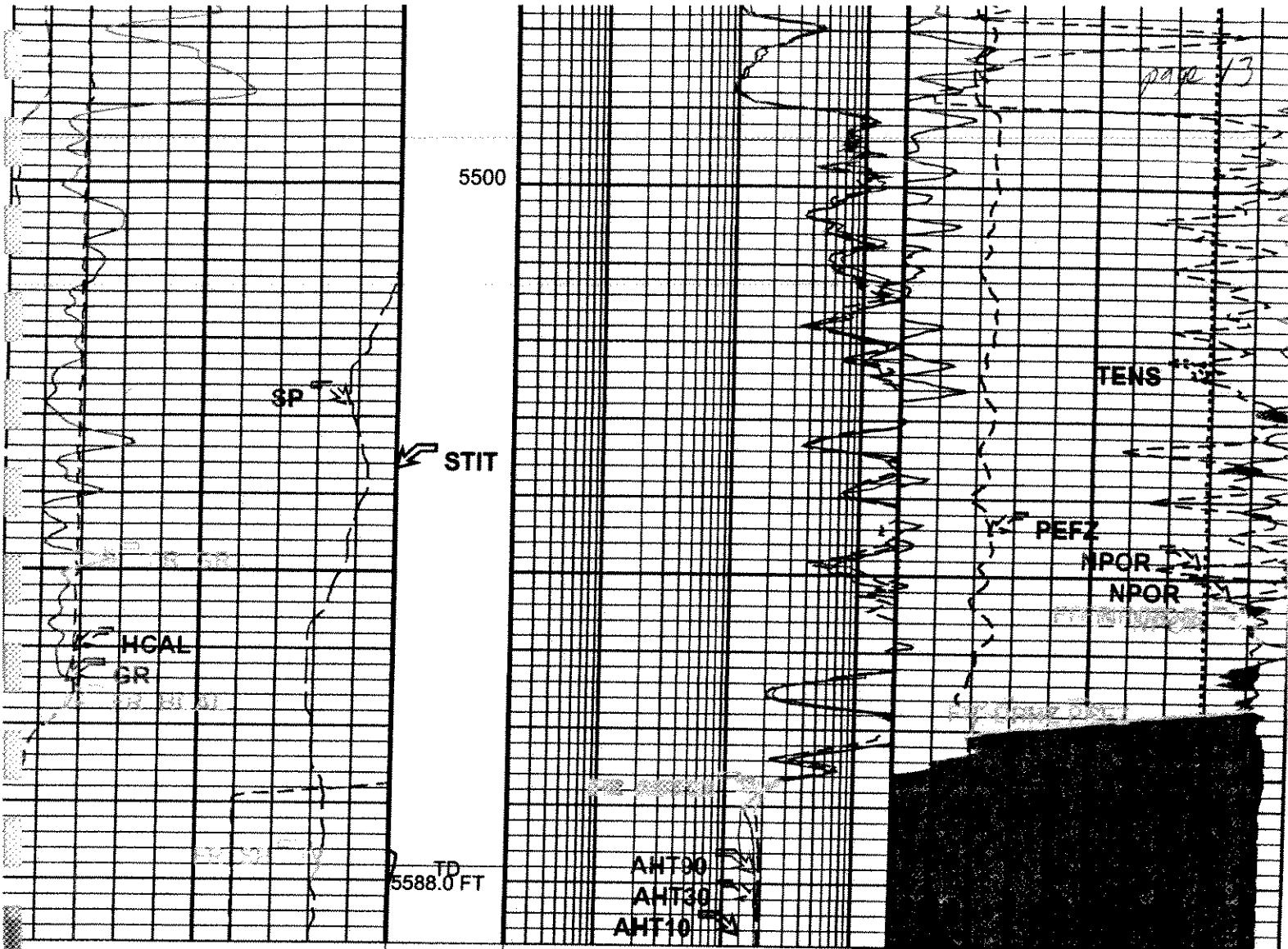
	MUD Density	Viscosity	
Fluid Loss			
Source Of Sample	pH		
MUD			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			@
RMF @ Measured Temperature			@
RMC @ Measured Temperature			@
Source RMF	RMC		
RM @ MRT	RMF @ MRT		@
Maximum Recorded Temperatures			@
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			

Wt/m3

Run







Gamma Ray (GR) (GAPI)	200	Stuck Stretch (STIT)	0 (F) 50	AIT-H 10 Inch Investigation (AHT10) (OHMM)	200	Std. Res. Density Porosity (DPHZ) (V/V)	0
HILT Caliper (HCAL) (IN)	16			AIT-H 30 Inch Investigation (AHT30) (OHMM)	200	NPOR BACKUP From NPOR_2 to T3	
SP (SP) (MV)	40			AIT-H 90 Inch Investigation (AHT90) (OHMM)	200	GAS EFFECT From DPHZ to NPOR_1	
						Tension (TENS) (LBF)	0
						Alpha Processed Neutron Porosity (NPOR) (V/V)	0
						Std. Res. Formation Pe (PEFZ) 0 (---) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name

Description

Value

LITHOLOGY STRIP LOG

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WellSight Systems

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: Grays No. 23-27

Location: NE SW Sec.27-T13S-R47W, Cheyenne Co., CO

License Number: API No.05-017-07690

Region: Mount Pearl Field

Spud Date: 12/11/09

Drilling Completed: 12/30/09

Surface Coordinates: 1667'FSL 1528'FWL

Latitude 38.88584 / Longitude -102.66181

Bottom Hole
Coordinates:

Ground Elevation (ft): 4330'

K.B. Elevation (ft): 4341'

Logged Interval (ft): 400' To: 5594' Total Depth (ft): 5594'

Formation: Pennsylvanian Morrow Sand

Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: VECTA Oil and Gas, LTD

Address: 5920 Cedar Springs Road, Ste. 200

Dallas, TX 75235

John Beecher!

GEOLOGIST

Name: Randy Say

Company: RSay Enterprises

Address: 13524 W. 67th Way

Arvada, CO 80004

303-940-8751

Casing/ Data

8.625" surface casing set @ 374'

5.50" production casing run to TD[5594']

Total Depth(Driller) 5594'(-1253')

Total Depth(Electric Log) 5588'(-1247')

With adjustment for 2' of fill at TD, a 4 foot uphole depth correction from Driller TD to ELog TD is made.

DSTs

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DST No.1 5317'-5337'(20') Driller Depth; 5313'-5334' ELog Depth Conventional Morrow V7 Sand Test; Misrun, Packer Failure

DST No.2 5170'-5337'(167')- Driller Depth/5164'-5333'ELog Depth; Conventional Morrow V7 SS Successful test

Testing Company: Ricketts Testing, Pratt, KS

Tester: Tim Venters

Mud Type - Chemical

Blows: IF- 30 min; ISI- 65 min; FF- 60 min; FSI- 30 min

IF- 30 min; Open weak blow, bldg to 2" in 5 min

ISI- 65 min; No blow back

FF- 60 min; Open vweak surf blow to 30 min, then died

FSI- 30min; No blow back

Pipe Recovery- 90' Total Recovery; Drig mud, no oil or gas

Rw - NA @ 134 F- NA ppm

Sampler - None

IHP-2469;IFP-63-57;ISIP-227;FFP-80-73;FSIP-99; FHP-2409

DST No.3 5340'-5352'(12')- Driller Depth/ 5336'-5348'-ELog Depth; Conventional Morrow V7 SS Successful Test

Testing Company: Trilobite Testing, Inc., Hays, KS

Tester: Brandon Domsch; Unit No.48

Mud Type - Chemical

Blows: IF- 30 min- 60 ISI- min; FF- 60 min; FSI- 90 min

IF- 30 min-Open built to 0.5" died back to 0.25"

ISI- 60 min- No blow back

FF- 60 min- No blow

FSI- 90 min- No blow back

Pipe Recovery- 10' Total Recovery; 100% mud, no oil or gas

Rw - NA @ 134 F- NA ppm

IHP-2620;IFP-33-37;ISIP-503;FFP-40-43;FSIP-421; FHP-2616

Core No.1 5302'-5327'(25')-Driller Depth/ 5298'-5323'-ELog Depth

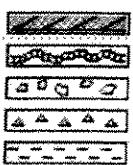
Comments

Black Gold Drilling

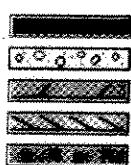
Rig No.69

Cheyenne Wells, CO

ROCK TYPES



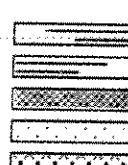
Anhy
Bent
Brec
Cht
Clyst



Coal
Congl
Dol
Gyp
Igne



Lmst
Meta
Mrlst
Salt
Shale



Shcl
Shgy
Sltst
Ss
Till

ACCESSORIES

1990/6

FOSSIL

-  Algae
-  Amph
-  Belm
-  Bioclast
-  Brach
-  Bryozoa
-  Cephal
-  Coral
-  Crin
-  Echin
-  Fish
-  Foram
-  Fossil
-  Gastro
-  Oolite
-  Ostra
-  Pelec
-  Pellet
-  Pisolite

 Plant

	Mineral
<input type="checkbox"/>	Anhyd
<input type="checkbox"/>	Argggm
<input type="checkbox"/>	Arg
<input type="checkbox"/>	Bent
<input type="checkbox"/>	Bit
<input type="checkbox"/>	Brecfra
<input type="checkbox"/>	Calc
<input type="checkbox"/>	Carb
<input type="checkbox"/>	Chtdk
<input type="checkbox"/>	Chtlit
<input type="checkbox"/>	Dol
<input type="checkbox"/>	Feldsp
<input type="checkbox"/>	Ferripe
<input type="checkbox"/>	Ferr
<input type="checkbox"/>	Glau
<input type="checkbox"/>	Gyp

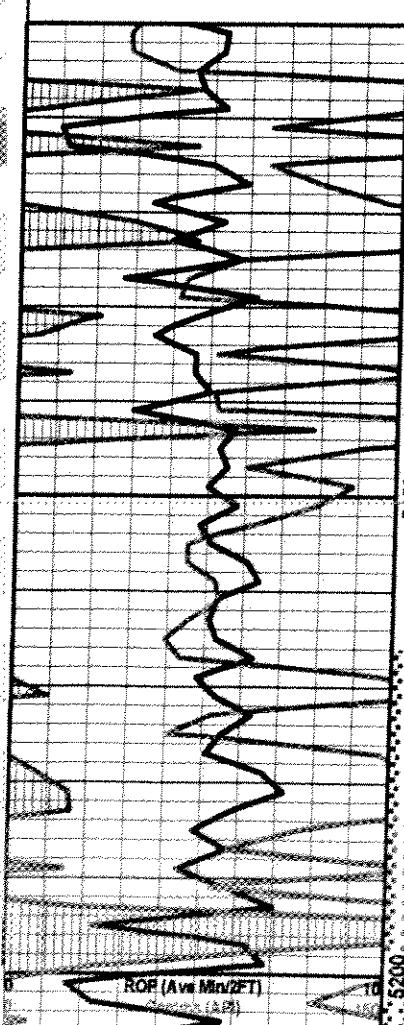
	Hvymin
	Kaol
	Mari
	MinxI
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
STRINGER	
	Anhy
	Arg
	Bent
	Coal
	Dol

Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE	
BS	Boundst
C	Chalky
CX	CryxIn
E	Earthy
FX	FinexIn
GS	Grainst
L	Lithogr
MX	Microxin
MS	Mudst
PS	Packst
WS	Wackest

ROP/ENG DATA

ROP (Ave Min/2FT)
Gamma (API)



Geological Descriptions

Total Gas (TG)
Total Gas(TG) (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)

LS tan-brn xfx1 firm-hd sity vpyr slfss

carb vpyr s1calc w/intbd L8 strgs aa

vpyr sicalc

fr pvt & cht

L8 m-dkgx xfkl-microxl hd dns-firm
mfos calc infill & pyr occ & cht; por-
nsfoc

Incer pyr

SH bk-gybrn firm blky vvcarb occ mica
calcareous

8 mot dk-mgy-tan xfxl-4tho hd-firm
mfsos occ dolo sity & pyr w/intbd dkgy
h stras aa: por-it nsfoc

4 m-ltgy-blk stiff-firm plty f/c carb vvsly
vr. slty weighted stiff strng

I aa incr gynn-mgy sft pity vsity

Cone

W 9.3
V 63
CK 1
WL 7.6
pH 9.5
CL 600
Ca 80
LCM 3#/BBL

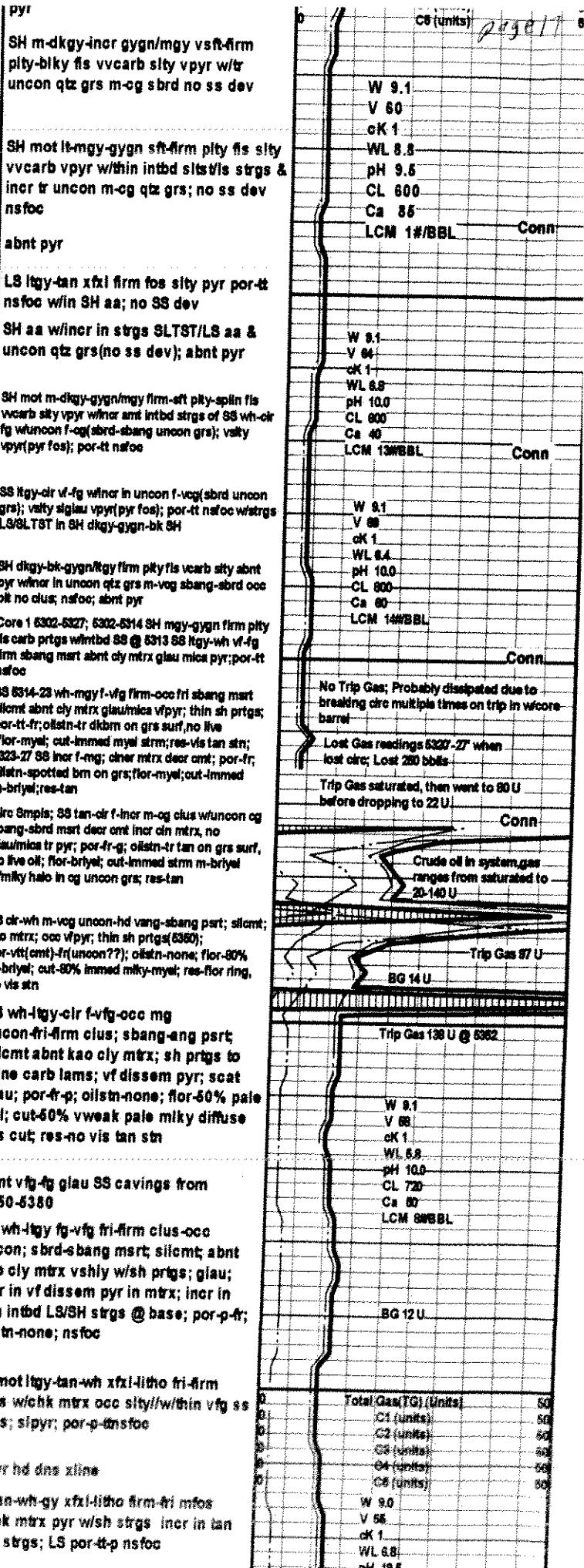
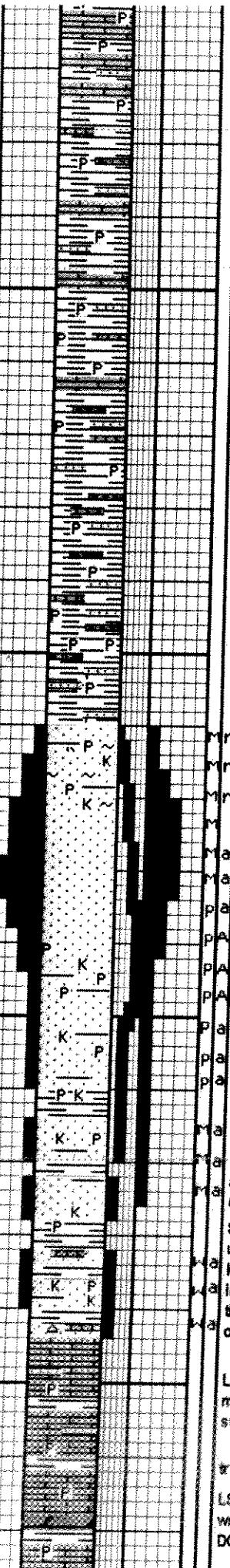
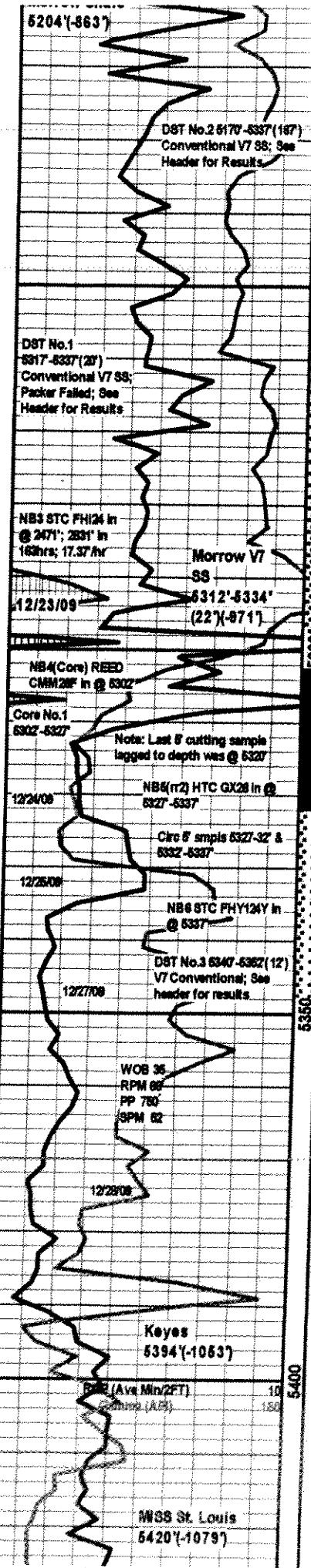
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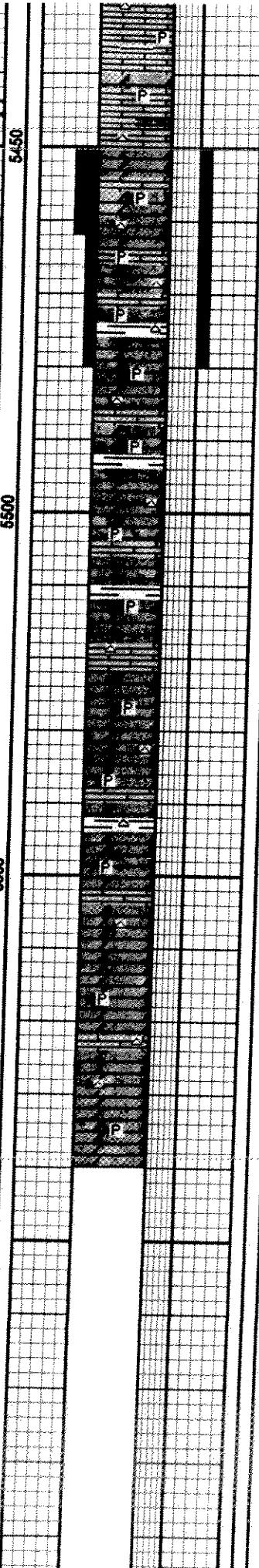
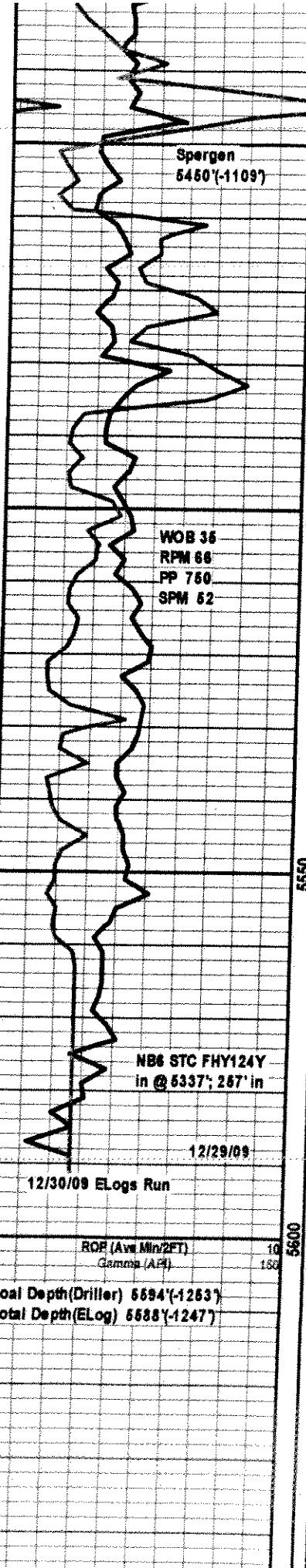
- Conn

W 9.1
V 60
cK 1
WL 8.8
pH 9.5
CL 600
Ca 86
LCM 12/BBI

Total Gas(TG) (Units)
C1 (units)

55





W1-nim-occ na uns vlos w/abnt cnk
mtrx occ sity vpyr w/intbd strgs sh/dol;
LS por-p-tt nsfoc

LS tan-wh xfxl-gran firm-fri mfs incr
dolo w/dol strgs; incr pyr & cht; LS
por-p nsfoc

abnt pyr tr cht

DOL ittan-brn gran-xfxl fri-firm suc text
top of zone grdg to xfxl to base; mtrx
varg vdissem pyr, occ tr milky cht; occ
calc frac filling; w/intbd strgs tan-brn
LS xfxl firm sity; DOL por-fri-dol
w/mtrx & ls strgs); oilstn-none; flor20%
dull gold; cut-20% slow diffuse milky
crush cut; res-pale yel flor res, no
oilstn in dish

DOl tan-gy-brn gran-xfxl fri-firm occ
suc arg sity w/intbd LS & SH strgs; DOl
por-p-tt nsfoc

tr pyr incr tr cht

DOL mot tan-mgy-brn gran-xfxl
firm-fri-occ hd arg pyr incr amt cht
w/intbd strgs LS/SH; DOL por-p-tt nsfoc

LS tan-wh xfxl firm sifos vchky pyr

DOL mot tan-brn-lgy xfxl-gran firm-occ
hd-fri & gran suc arg pyr incr chty; DOL
por-p-tt nsfoc

SH gybrn sft pty carb sicalc

DOL mot lt-mgy-tan gran-microxi fri-hd
suc & arg pyr w/intbd LS strgs DOL
por-p-tt nsfoc

DOL mot gy-tan-brn xfxl-gran fri-hd suc
sity & arg w/LS strgs DOL por-p-occ fr
nsfoc

LS tan xfxl firm sifysr sity

DOL mot brn/tan-mgy xfxl-gran & suc
arg sity vpyr chty por-p-occ fr nsfoc

LCM 7.5MBBL

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BG8U

Lost Circ & Gas readings
after Rig Repairs 17-20 bbls

Trip Gas 30 U after Rig
Repairs and Lost Circ

W 8.0
V 64
oK 1
WL 7.6
pH 11.0
CL 800
Ca 30
LCM 20MBBL

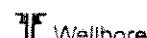
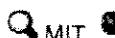
BG8U

0	Total Gas(TG) (Units)	50
0	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50
0	C5 (units)	50

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COGIS - WELL Information

Scout Card



Surface Location Data for API # 05-017-06915

Status: PA

Well Name/No: J & M DECHANT 13-27 #1 (click well name for production)

Operator: ANADARKO E&P COMPANY LP - 2800

Status Date: 6/8/2006 Federal or State Lease #:

County: CHEYENNE #017 Location: NWSW 27 13S 47W 6 PM

Field: MOUNT PEARL - #56770 Elevation: 4,337 ft.

Planned Location 1977 FSL 655 FWL Lat/Long: 38.886644/-102.664944 Lat/Long Calculated From Footages

Wellbore Data for Sidetrack #00

Status: PA 6/8/2006

Spud Date: 10/23/1997

Spud Date is: ACTUAL

Wellbore Permit

Permit #: 19970772 Expiration Date: 10/6/1998

Prop Depth/Form: 5480 Surface Mineral Owner Same: Y

Mineral Owner: FEE Surface Owner: FEE

Unit: Unit Number:

Formation and Spacing: Code: MRRW , Formation: MORROW , Order: 0 , Unit Acreage: 0 , Drill Unit:

Wellbore Completed

Completion Date: 11/18/1997

Measured TD: 5510 Measured PB depth: 5473

True Vertical TD: 5510 True Vertical PB depth: 5473

Casing: String Type: SURF , Hole Size: , Size: 8.625, Top: 0, Depth: 336, Weight:

Cement: Sacks: , Top: 0, Bottom: , Method Grade: CALC

Casing: String Type: 1ST , Hole Size: , Size: 5.5, Top: , Depth: 5510, Weight:

Cement: Sacks: , Top: 4830, Bottom: , Method Grade: CALC

Casing: String Type: S.C. 1.1 , Hole Size: , Size: , Top: , Depth: 2585, Weight:

Cement: Sacks: 275, Top: 1780, Bottom: 2585, Method Grade: CALC

Formation	Log Top	Log Bottom	Cored	DSTs
FORT HAYS	1314			
CODELL	1393			
CARLILE	1421			
GREENHORN	1550			
BENTONITE	1696			
DAKOTA	1784			
MORRISON	2448			
BLAINE	2857			
STONE CORRAL	3106			
NEVA	3737			
FORAKER	3808			
MORROW	5196			
MORROW V-7	5344			
SPERGEN	5440			

Completed information for formation MRRW

1st Production Date: N/A Choke Size: 0.000

Status Date: 6/8/2006 Hole Completion:

Commingled: Production Method:

Formation Name: MORROW Status: PA

Formation Treatment: SEE SCANNED DOCUMENT #00498521

Tubing Size: Tubing Setting Depth:

Tubing Packer Depth: Tubing Multiple Packer:

Open Hole Top: Open Hole Bottom:

Initial Test Data:

Test Date: 12/17/1998 Test Method:

Hours Tested: 10 Gas Type:

Gas Disposal:

Test Type Measure

BBLS_H2O 31.5

BBLS_OIL 0.4

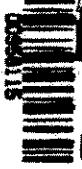
CASING_PRESS 150

B
page 2

**ATLAS
WIRELINE
SERVICES**

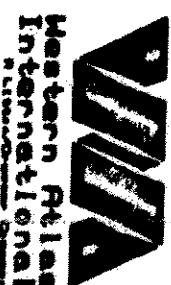
**COMPENSATED
NEUTRON**

GRAMA RAY



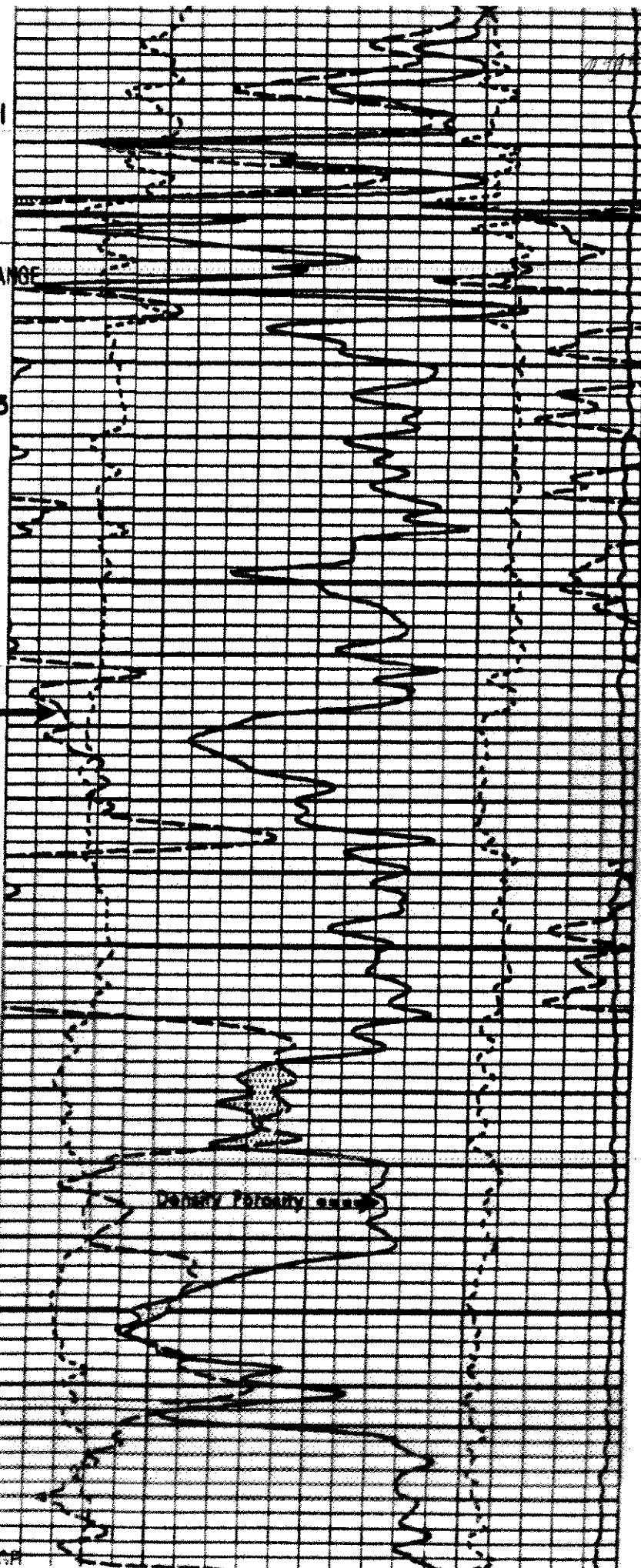
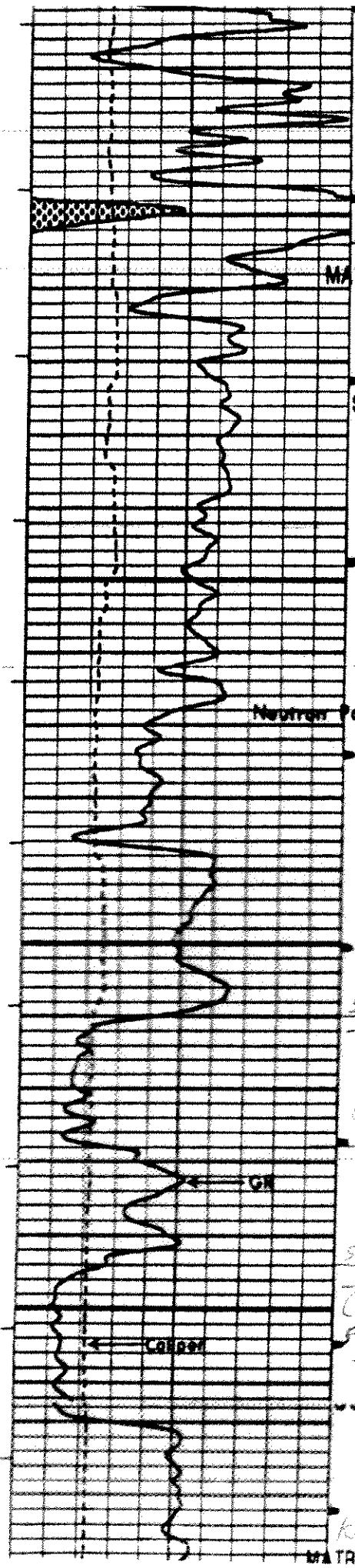
FILE NO.	CONS. COMM	
PERIOD	1988	
DATE	OCT 25	
TIME	10:00 A.M.	
FIELD	MT. PERL	
COUNTY	DEERME	
LOCATION:	(12)	
WELL	NO. 1 JM TEEANT 13-27	
STATE	COLORADO	
SEC 21	TWP 13S	RGE 4TH
PERFECT DUE	G.L.	ELEV. 4336
LOGGING MEASURED FROM	K.B.	FT. ABOVE P.D.
DRILLING REFERRED FROM	K.B.	
DATE	10-08-88	
RUN	1	
SERVICE DRILLER	142641	
DEPTH DRILLER	5516	
DEPTH LOGGER	5502	
BOTTOM LOGGED INTERVAL	5506	
TOP LOGGED INTERVAL	334	
DRAWING - DRILLER	8 5/8"	8 3/8"
DRAWING - LOGGER	334	
BIT SIZE	7 1/8"	
TYPE FLUID IN HOLE	CHEM-GEL	
DENSITY / VISCOSITY	9.1	63
PH / FLUID LOSS	9.5	7.4
SOURCE OF SAMPLE	FLOWLINE	
RT. RT. REFS. TDP.	1.2	0.99
RT. RT. REFS. TDP.	0.9	0.99
RT. RT. REFS. TDP.	1.5	0.99
SOURCE OF RT. / RAC	REFS.	REFS.
RT. RT. BH	0.78	0.137
TIME SINCE CIRCULATION	5 HRS.	
MAX. REC. TEMP. DEG. F	138	
EQUIP. NO. / LOC.	b601 (HUG)	FT. MORGEN
RECORDED BY	FRED REINITZ	
WITNESSED BY	STEVE JOHNSON & COOPER	

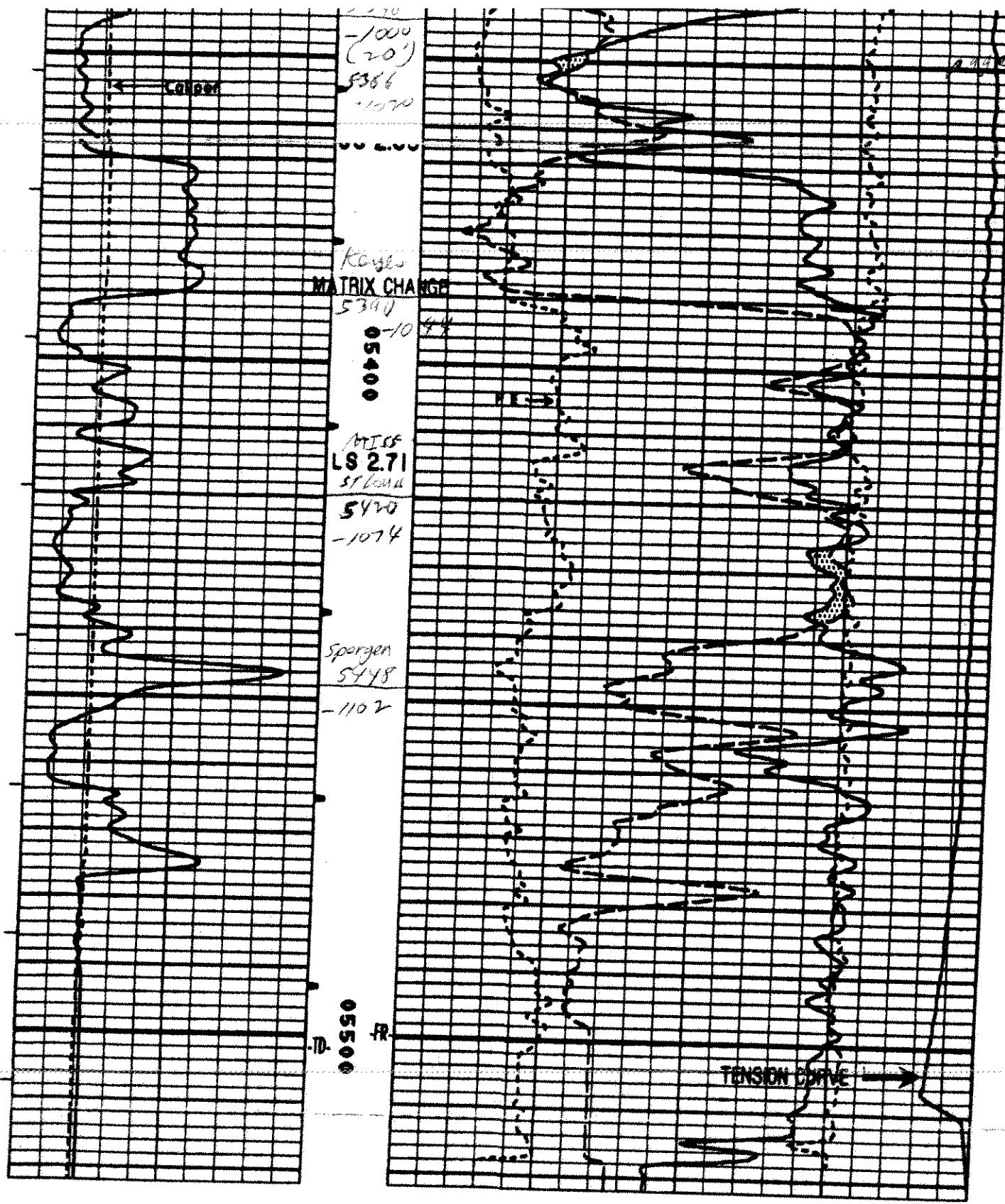
IN MAKING INTERPRETATIONS OF LOGS OUR
EMPLOYEES WILL GIVE CUSTOMER THE BENE-
FIT OF THEIR BEST JUDGEMENT, BUT SINCE
ALL INTERPRETATIONS ARE OPINIONS BASED
ON INFERENCES FROM ELECTRICAL OR OTHER
MEASUREMENTS, WE CANNOT, AND WE DO NOT
GUARANTEE THE ACCURACY OR CORRECTNESS
OF ANY INTERPRETATION. WE SHALL NOT BE
LIBLE OR RESPONSIBLE FOR ANY LOSS,
COST, DAMAGES, OR EXPENSES WHATSOEVER
INCURRED OR SUSTAINED BY THE CUSTOMER
RESULTING FROM ANY INTERPRETATION MADE
BY ANY OF OUR EMPLOYEES.



**ATLAS
WIRELINE
SERVICES**

FOLD HERE





UOL (OFT)

30

ZDR(G/X)

33

- 19 -

PE(B/E)

三

10

Vecta Oil and Gas, Ltd.
Grays No.23-27
NE SW Sec.27-T13S-R47W
Cheyenne Co., CO

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Core No.1 5302'-5327'
And
5' Circulation Samples from 5327'-5332' and 5332'-5328'

Core No.1 was cut into 3 foot sections with saw and capped while in the sleeve. Chip samples were taken from the endcap sections at the depths listed below starting with the 5302' depth. The 3 foot sections were then sealed and transported back to Denver.

- 5302 SH mgy-gygn firm plty-splin fis wxy w/bk carb prtgns noncalc; no ss strgs
- 5305 SH aa w/incl in bk carb prtgns noncalc; no ss strgs
- 5308 SH gygn-gn sft-firm plty-splin fis decr in carb prtgns noncalc; no ss strgs
- 5311 SH gygn-mgy incl firm plty fis w/first ss strgs intbnd; SS ltgy-wh f-vfg firm-hd sbang msrt silcmt; abnt cly mtrx; glau & mica vf disseminated pyr; por-tt-p; no oilstn; nsfoc
- 5314 SS ltgy-wh f-vfg firm-hd sbang msrt; silcmt; abnt cly in mtrx; incl amt glau & mica; vf disseminated pyr decr; por-p-occ fr; no oilstn; nsfoc
- 5317 SS wh-ltgy f-vfg firm-hd sbang-sbrd msrt; silcmt; abnt cly in mtrx; incl in amt glau & mica; decr pyr; por-p-fr; oilstn-dkbrn stn on freshly broken surface, no vis live oil, no oil odor; flor-myel spotted flor; cut-slow milky diffuse cut; res-vittan vis tan stn in dish
- 5320 SS m-ltgy f-decr vfg; firm-decr hd; sbang msrt; silcmt; decr in amt cly in mtrx; glau; mica occurring in very fine lams w/carb mat (vthin sh prtgns); tr vf disseminated pyr; por-p-fr; oilstn-incl in scat dkbrn oilstn, no vis live oil or oil odor; flor-myel; cut-slow strm myel cut; res-tan oilstn in dish
- 5323 SS mgy-wh f-vfg firm-occ fri; sbang msrt; silcmt; mod amt cly mtrx; glau; mica occurring in very fine lams w/vthin sh prtgns; tr vf disseminated pyr; por-fr; oilstn-incl in dkbrn stn w/no vis live oil or oil odor; flor-myel; cut-immed strm m-briyel; res-vis lttn oilstn in dish
- 5326-27 SS lttn f-vfg-occ tr mg; firm-occ fri; sbang msrt; silcmt; decr amt cly mtrx; glau; mica & carb mat in vthin sh lams; tr vf disseminated pyr; por-fr; oilstn-incl spotted dkbrn oilstn, no vis live oil, oil odor on fresh break; flor-myel; cut-immed strm m-briyel; res-vis lttn oilstn in dish

5' Circulation Samples

- 5327-5332 SS tan-clr fg-lmg firm-fri clus w/occ tr uncon mg; sbang-sbrd msrt; silcmt; cly mtrx amt decr to tr; rare glau, no mica or pyr; f-lmg clus have no sh prtgns; por-fr-g; oilstn-tan-brn oilstn on clus, no vis live oil; flor-briyel on clus w/occ flor uncon loose lmg grs; cut-immed strm m-briyel; res-tan res in dish
- 5332-5338 SS tan-clr m-incl cg clus w/incl in m-cg uncon grs; sbang-sbrd msrt; loosely cemented w/sil; cln mtrx w/tr cly mtrx, no glau or mica, rare tr pyr in clus; decr amt carb lams; por-g-fr; oilstn-tan sat stn in clus; flor-m-briyel in clus w/m-briyel flor on uncon m-cg loose grs; cut-immed strm m-briyel on clus w/occ milky halo cut on uncon grs; res-tan res in dish

Company	Vecta Oil & Gas LTD	Lease Name	Grays	
Address	5920 Cedar Springs Rd. Ste.200	Lease #	23-27	
CSZ	Dallas, TX 75235	Legal Desc.	NE-SW	Job Ticket 2093
Attn.	Matt Goolsby	Section	27	Range 47W
		Township	13S	
		County	Cheyenne	State CO
Comments	Trilobite did the 1st test	Drilling Cont	Black Gold Drilling Rig #89	

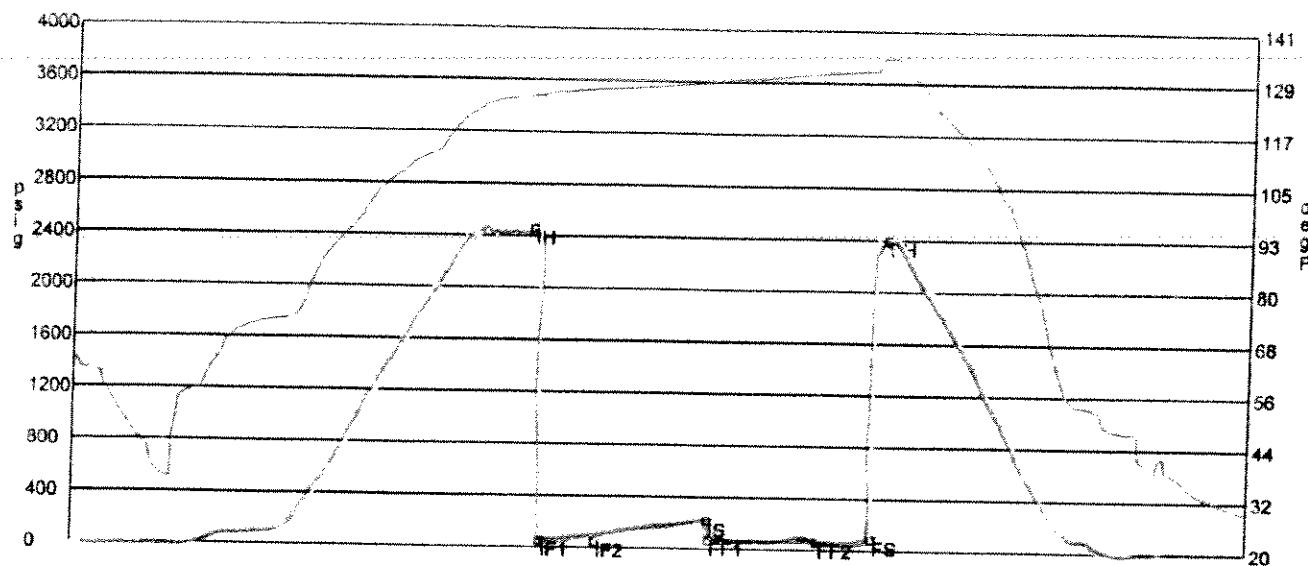
GENERAL INFORMATION

Test # 2	Test Date	12/27/2009	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters		Top Recorder #	W1119		
Test Type	Conventional Bottom Hole Successful Test		Mid Recorder #	W1022		
# of Packers	2.0	Packer Size 6 3/4	Bott Recorder #	13565		
Mud Type	Gel Chem		Mileage	604	Approved By	
Mud Weight	9.1	Viscosity 69.0	Standby Time	0		
Filtrate	6.4	Chlorides 800	Extra Equipmmt	Jars & Safety joint		
Drill Collar Len	244.0		Time on Site	4:30 PM		
Wght Pipe Len	0		Tool Picked Up	8:40 PM		
Formation	Morrow		Tool Layed Dwn	6:35 AM		
Interval Top	5170.0	Bottom 5337.0	Elevation	4330.00	Kelley Bushings	4341.00
Anchor Len Below	167.0	Between 0				
Total Depth	5337.0		Start Date/Time	12/27/2009 7:44 PM		
Blow Type	Weak surface blow at the start of the initial flow period, building to 2 inches in 5 minutes where it held the rest of the period. Very weak surface blow throu gh 30 minutes of the final flow period, then we had a no blow. Times: 30, 65, 6 0, 30.		End Date/Time	12/28/2009 6:42 AM		

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
90	Drilling mud	0%	0ft	0%	0ft
DST Fluids	0				100% 90ft

Estimated cost, 2230 -



Date	Time	Pressure	Temp	
IH	12/27/2009 11:58:30 PM	4.241667	2469.08	125.354 Initial Hydro-static
IF1	12/28/2009 12:04:15 AM	4.3375	62.714	125.477 Initial Flow (1)
IF2	12/28/2009 12:35:30 AM	4.858333	57.428	127.11 Initial Flow (2)
IS	12/28/2009 1:38:30 AM	5.908333	227.176	128.882 Initial Shut-In
FF1	12/28/2009 1:39:30 AM	5.925	79.983	129.019 Final Flow (1)
FF2	12/28/2009 2:40:30 AM	6.941667	73.041	131.158 Final Flow (2)
FS	12/28/2009 3:11:00 AM	7.45	99.415	131.983 Final Shut-In
FH	12/28/2009 3:17:00 AM	7.55	2409.373	134.911 Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
--------------	--------------	-----------	----------	-------



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vecta

Grays #23-27

27-138-47w Cheyenne

Job Ticket: 37751 DST #: 3

Test Start: 2009.12.27 @ 20:41:05

ATTN: Matt Goolsby/Randy Sa

GENERAL INFORMATION:

Formation: Merrow

Deviated: No Whipstock ft (KB)

Time Tool Opened: 23:53:30

Time Test Ended: 06:00:45

Interval: 5340.00 ft (KB) To 5352.00 ft (KB) (TVD)

Total Depth: 5352.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Reference Elevations: 4438.00 ft (KB)

4427.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322 Inside

Press@RunDepth: 43.41 psig @ 5341.00 ft (KB)

Start Date: 2009.12.27

End Date: 2009.12.28

Capacity: 8000.00 psig

Start Time: 20:41:05

End Time: 06:00:45

Last Calib.: 2009.12.28

Time On Btrr: 2009.12.27 @ 23:51:45

Time Off Btrr: 2009.12.28 @ 02:55:14

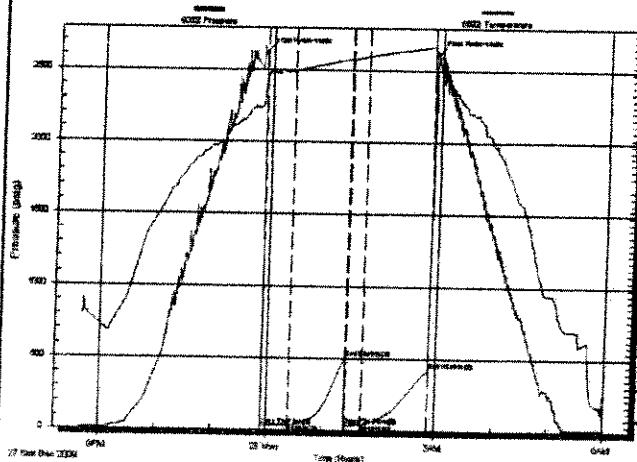
TEST COMMENT: IF: Built to 1/2 inch died back to 1/4 inch.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2620.01	131.86	Initial Hydro-static
2	33.43	133.12	Open To Flow(1)
32	36.98	136.63	Shut-in(1)
92	503.81	140.40	End Shut-in(1)
93	39.75	140.39	Open To Flow (2)
110	43.41	141.23	Shut-in(2)
181	421.47	144.30	End Shut-in(2)
184	2616.51	139.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10	M 100% M	.049
	GIP = 0	

Gas Rates

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

Serial #: 8322 Inside: Vecta 27-13s-47W Cheyenne DST Test Number: 3

