



Operator Name: Haas Petroleum, LLC Lease Name: Dye Well #: 37  
 Sec. 7 Twp. 24 S. R. 14  East  West County: Woodson

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Dual Induction</b> <b>Dual Compensated Porosity</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  Name Top Datum  Mississippian Dolomite 1648' (539)
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CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	20.5#	44'	Class "A"	35	2% CaCl <sub>2</sub> , 2% Gel
Production	6 3/4"	4 1/2"	9.5#	1718'	60/40 Poz Mix	150	8% gel

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	1645-1658'	1200 gal. 15% HCL	1645-1658'

TUBING RECORD		Size Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
		2 3/8"	1605'	
Date of First, Resumerd Production, SWD or Enhr.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

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**DEC 22 2008**  
 CONSERVATION DIVISION  
 WICHITA, KS

CONSOLIDATED OIL WELL SERVICES, LLC  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 17472  
 LOCATION Eureka  
 FOREMAN Steve Mead

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-16-07	3451	Dye #37	7	24	14	Woodson
CUSTOMER Heras Petroleum, LLC			TRUCK #			
MAILING ADDRESS 800 West 47th St 409			DRIVER		TRUCK #	
CITY			DRIVER		TRUCK #	
STATE			DRIVER		TRUCK #	
ZIP CODE			DRIVER		TRUCK #	
Kansas City			Alan		515	
MO			Jim			
64112						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 45' CASING SIZE & WEIGHT 8 1/2  
 CASING DEPTH 44' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 5'  
 DISPLACEMENT 2 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 8 1/2 casing. Break circulation with fresh water. Mix 35 sks Regular cement w/ 2% Caclz, 2% Gel. Displace with 2 1/4 bbls fresh water. Shut casing in. Good cement returns to surface. Job complete Rig down.

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	650.00	250.00
5406	30	MILEAGE	3.30	99.00
11045	35 sks	Regular Class A cement	12.90	427.00
1102	65#	Caclz 2%	.67	42.55
1118A	65#	Gel 2%	.15	9.75
5407	1.64 ton	Ton Mileage Bulk Truck	M/L	285.00
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				WICHITA, KS
				Sub Total
				1514.30
				6.3%
				SALES TAX
				30.20
				ESTIMATED
				TOTAL
				1544.50

AUTHORIZATION Called by Ben

TITLE 214151 Paul Pasher

DATE \_\_\_\_\_

CONSOLIDATED OIL WELL SERVICES, LLC  
 P.O. BOX 884, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER 17473  
 LOCATION Eureka  
 FOREMAN Steve Mead

TREATMENT REPORT & FIELD TICKET  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-19-08	3451	Dye # 37	7	24	14	Woodson

CUSTOMER  
Hess Petroleum, LLC  
 MAILING ADDRESS  
800 West 47<sup>th</sup> Ste. 409  
 CITY STATE ZIP CODE  
Kansas City Mo. 64112

TRUCK #	DRIVER	TRUCK #	DRIVER
485	Alan		
439	Jarrod		
441	Jeff		
452-763	Jim		

JOB TYPE Long string HOLE SIZE 6 3/4 HOLE DEPTH 1727 CASING SIZE & WEIGHT 4 1/2 9.5  
 CASING DEPTH 1718' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 12.4 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 12'  
 DISPLACEMENT 27 3/4 DISPLACEMENT PSI 600 ~~MINI~~ Bump Plug 1100 RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. Break circulation with Fresh water. Pump 10 bbls Fresh water ahead. Mix 150 sks 60/40 Pozmix cement w/ 8% Gel Tail in with 50 sks Thickset cement w/ 5" Kolseal per/sk at 12.4 per/gallon. Wash out Pump & lines. Release Plug. Displace with 27 3/4 bbls Fresh water. Final pumping Pressure 600# Bump Plug AT 1100#. Wait 2 min Release pressure, Plug held. Good cement Return to surface - 17 bbls to pit. Job complete Rig down.

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	840.00	840.00
5406	30	MILEAGE	3.30	99.00
1131	150 SKS	60/40 Poz-Mix Cement	9.80	1470.00
1118A	1000#	8% Gel	.15	150.00
1107	38#	1/4" Flo-Ceal Per/sk	1.90	72.30
1126	50 SKS	Thickset Cement	15.40	770.00
1110A	260#	Kolseal 5" Per/sk	-38	96.00
5407A	9.27 hrs	Tan Mileage Bulk Truck	.110	303.60
5501 C	3 hrs	Water Transport	100.00	300.00
1123	5000 gallons	CITY WATER	12.80 <sup>Per Gallon</sup>	64.00
4401	1	4 1/2 Top Rubber Plug	40.00	40.00
4310	1	4 1/2 Baffle Plate	25.00	25.00
4103	1	4 1/2 Cement Basket	190.00	190.00
			Subtotal	4418.80
			SALES TAX	181.31
			ESTIMATED TOTAL	4600.01

314178

AUTHORIZATION Called by Ben

TITLE Co. Rep

RECEIVED DATE \_\_\_\_\_  
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**David B. Griffin, RG, Consulting Geologist**

1502 W. 27<sup>th</sup> Terrace  
Lawrence, Kansas 66046

Ph. (785) 842-3665  
Cell (785) 766-0099  
Fax (785) 856-3935

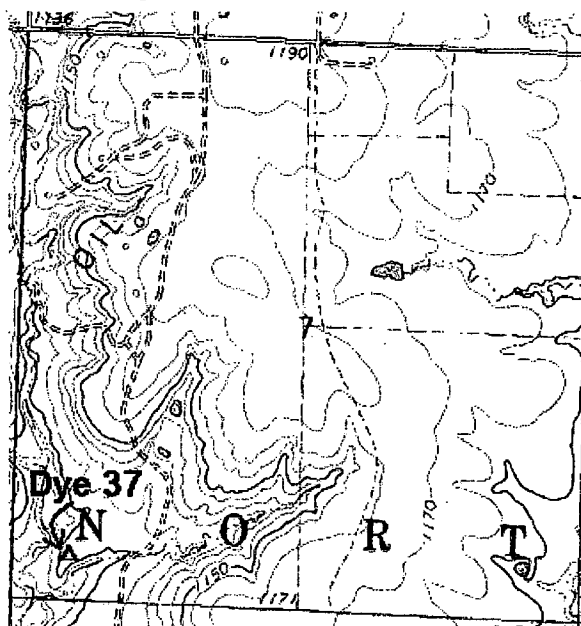
**Geological Wellsite Report**

June 22, 2007

Haas Petroleum, LLC  
800 W. 47<sup>th</sup> St, Suite 409  
Kansas City, MO 64112  
Attn: Mark Haas

EnerJex Resources, Inc.  
7300 W. 110<sup>th</sup> St., 7<sup>th</sup> Floor  
Overland Park, KS 66210  
Attn: Brad Kramer

RE: Geological Wellsite Report  
Dye No. 37, Injector Well  
NE SW SW SW4  
Section 7, T24S – R14E  
Woodson County, Kansas



The following report on the subject well includes detailed information and geological data based on microscopic examination of rotary drill cuttings and drill bit rate of penetration from 1250' to a total depth of 1727' below the kelly bushing. A detailed log that plots drilling time, sample cuttings description and the geological tops is included. Subsea corrected geological tops were based on an estimated kelly bushing elevation of 1109', which is 7' above the estimated topo ground level elevation of approximately 1102'. For relative comparison, the GL elevation of Dye 37 was instrument measured to be nearly flat to the GL elevation of Dye 29. It is now believed that the surveyed elevation of Dye 29 was in error and is about 5 feet higher than reported by surveyor.

**Daily Progress**

June 16, 2007; Spud Well, Set approximately 41' of 8 5/8-inch surface casing.

June 17, 2007; Drill from 41' to 97'.

June 18, 2007; Drill from 97' to TD at 1727'

June 19, 2007; Set and cement 4 1/2-inch casing.

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## Well Information

**Well Name:** Dye No. 37                      **Elev.:** Topo Est. GL 1102', KB 1109'

**Location:** NE SW SW SW4 (from topo)  
468' fsl, 593' fwl (from topo)  
Section 7, T 24S-R 14E  
Woodson County, Kansas

**GPS lat long Coord:** N37.96839, W-95.92001

**API No.:** 15-207-27185-00-00                      **Field:** Winterschied

**Operator:** Haas Petroleum, LLC

**Contact Person:** Mark Haas

**Drilling Co.:** Skyy Drilling  
Yates Center, Kansas, 66865  
KS Operator License No.: 33557

**Drilling Co. Owner:** Mark Haas                      **Tool Pusher:** Ben Harrell

**Cement Co.:** Consolidated Oil Well Service Co.  
KS Operator License No.: 04996

**Status:** Pending Completion                      **Spud Date:** June 16, 2007

**Driller Total Depth:** 1727' KB                      **Date Reached TD:** June 18, 2007

**Open-Hole Log Total Depth:** 1723' KB

**Surface Casing:** Hole drilled with 12 1/4" bit, 41' of 8 5/8",  
Cemented with approximately 30 sacks of class "A" cement with 2% gel  
and 3% CaCl<sub>2</sub> on June 16, 2007.

**Drilling Notes:** First well with new 5-row (Ulterra) PDC 6 3/4-inch Bit  
(6) 5 3/4-inch drill collars  
3 1/2" by 31' (average length) drill pipe  
Mud pump, 2-Cylinder, 6" x 12" stroke  
Drilling time provided from 1250' to TD  
Sample travel time to surface (lag), approx. 1 min. per 125 to 150 feet

**Mud Program:** Native fresh water mud to 1200', fresh water gel mud from 1200' to TD  
Fudd Mud, Inc. provided daily monitoring of chemical drilling mud,  
Preferred properties; 33 to 36 vis, 8.9 to 9.4 wt.

**Geological Supervision:**

David Griffin, RG, provided wellsite supervision on June 18 and June 19, 2007 for depths from 1250' to 1727' TD and for open-hole logging. Samples microscopically examined for the entire interval.

**Logs and Cores:**

Open-hole density, porosity, and dual induction logs were ran for this well by Log-Tech. A cased-hole gamma-ray neutron log will later be obtained for correlation and perforation considerations. No cores were cut for this well.

**Geological Datums:**

<b>Dye No.37, Geological Tops</b>					<b>Dye 28</b>	
<b>NE SW SW SW4, Sec. 7</b>		<b>KB Sample Depth</b>		<b>KB Log Depth</b>	<b>NE SW SW4</b>	
<b>Topo KB Elev.</b>	<b>1109</b>	<b>Depth</b>	<b>Subsea</b>	<b>Depth</b>	<b>Subsea</b>	
<b>Ireland SS, Gas?</b>		206	903	207	902	917
<b>Base of Kansas City Group</b>				941	168	177
<b>Cherokee Group</b>		1268	-159	1267	-158	-146
<b>U. Squirrel SS</b>		1275	-166	1274	-165	-150
<b>Ardmore LS</b>		1373	-264	1373	-264	-257
<b>Cattleman SS</b>		1383	-274	1383	-274	-268
<b>Blk Shale Marker, BV Zone</b>		1491	-382	1490	-381	-357
<b>Chat Conglomerate</b>		1608	-499	1610	-501	-492
<b>Mississippian LS</b>		1619	-510	1621	-512	-508
<b>Miss. Dol, Pay Zone</b>		<b>1648</b>	<b>-539</b>	<b>1651</b>	<b>-542</b>	<b>-521</b>
<b>Miss. LS 'B'</b>		1711	-602	NA	NA	
<b>Total Depth</b>		1727	-618	1723	-614	-613

**Structural Comparisons:**

Structural comparison of subsea corrected geological sample tops for Dye No. 37 to Dye No. 28, an injector well lying 705' to the northeast indicates that the top of the Mississippian limestone was 2' lower in structure and the top of the dolomite pay zone was 18' lower in structure.

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## Hydrocarbon Shows and Saltwater Calculations:

Douglas Group; Ireland Sandstone, Open-Hole Log tops, 206' to 211' and 214' to 218', Open-Hole Log indicates hydrocarbons present. At 210', porosity is 21% and Sw calculates to be 56%. Since no oil show or odor was detected in the samples, it is believed the hydrocarbon log response is most likely from gas. With the formation being so shallow and penetrated by many older wells that were likely poorly cemented at this depth, the rock pressure is probably very low and probably non-commercial. If the zone was properly cemented off and limited leakage has occurred, the zone has some potential to make gas.

Cherokee Group; Upper Squirrel Sandstone, Open-Hole Log tops 1275' to 1278', Slight show of tar, no odor, no bleeding, no fluorescence. Best porosity is about 14% and Sw calculates to be 100%, zone is non-commercial.

Cherokee Group; Cattleman Sandstone, Open-Hole Log tops 1383' to 1393', Zone had a good odor at first with a fair show of fairly heavy (25 to 30 gravity?) oil. Best porosity is 15% with Sw estimated to be near 90%, most likely non-commercial. This zone continues to be closely looked at in all wells.

Mississippian; Limestone, Open-Hole Log tops from 1618' to 1637', Samples show a fair to good odor in fair moldic vugular porosity, 5% to 40% of the cuttings are bright green fluorescent, fair to good odor, slight fluorescence scum showing of oil washes out of sample, slight fluorescent scum on sample bags from bleeding. Best oil show zone has 6% porosity with 80% Sw probably with low permeability; therefore it is most likely non-commercial.

**Mississippian; Dolomite**, Open-Hole Log tops indicate the best potential pay zone lies from 1651' to 1654', 1657' to 1660' and from 1662' to 1666', with a very good showing of oil in the samples in these intervals, 40% and 70% of the cuttings respectively are bright green fluorescent (see sample log), very good odor, both zones bleed good fluorescent streams of oil into the wash water and the inside of the sample bags have a very good showing of fluorescence from bleeding oil. The three zones above have porosity that averages approximately 14% to 17% with Sw saturations calculated to be in the mid-70's when using an RW value of 0.11 and M value of 2.

## Sample Observations of Major Zones of Interest

### Ireland Sandstone:

#### 205' to 220', Sample

Sandstone, very light gray to clear, very fine grained, sub-angular quartz, very good to excellent porosity, interbedded with gray micaceous siltstone, no show of oil, odor or fluorescence.

### Upper Squirrel Sandstone:

#### 1275' to 1278', Sample

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Sandstone, gray, laminated, very fine grained, quartz, siltstone in upper part, fair porosity, slight show of tar, no bleeding, no odor, not fluorescent, micaceous.

**Bartlesville Sandstone:**

**1522' to 1540', (Sample)**

Sandstone, light gray, very fine to fine grained, sub-angular, sandstone appears to be mostly laminations and thin Interbeds, carbonaceous, silty, minor mica, no show of oil, odor, or fluorescence.

**Mississippian:**

**Limestone**

**1619' to 1637', (Sample)**

Limestone, upper 7' is light to dark brown and weathered, lower portion is fresh cream color, fine crystalline, fair to medium crystalline porosity, thin beds of quartz silty sandstone, very fine to medium grained well rounded quartz sand, most grains are very fine sand and coarse silt, fair vugular porosity from 1628' to 1637' with a fair free oil show in moldic and vugular porosity, 5% to 40% cuttings are bright green fluorescent in this zone, good odor, slight fluorescence scum on wash water and on sample bags, there may be some gray shale with the siltstone.

**Sandstone**

**1637' to 1643', (Sample)**

Sandstone, clear to very light gray, very fine grained with coarse siltstone, fair porosity, glassy due to recrystallization, fair to good odor, slight show of oil, oil does not bleed from sample, 20% of the cuttings are fluorescent.

**Dolomite, Pay Zone**

**Best Pay 1648' to 1654' and 1660' to 1663', (Sample)**

Dolomite, calcareous, tan to brown, very fine to fine crystalline, fair to good crystalline sucrosic porosity, good vugular porosity, some larger vugs have been replaced with large clear dolomite crystals, best vugular zone from 1660' to 1663' (Sample), very good odor, very good showing of oil, 15% to 70% of the cuttings are bright green fluorescent, very good scum of oil on wash water and on sample bags, cherty from 1663 to 1680, a zone of very fine gray Sandstone lies from 1654 to 1657, clear quartz, poor to fair porosity, the better porosity has a fair oil show, the interval from 1648' to 1668' has varying amounts of oil showing.

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Page 5 of 6 KANSAS CORPORATION COMMISSION

Dye No. 37  
Wellsite Geology Report  
By David Griffin, RG  
June 22, 2007

DEC 22 2008

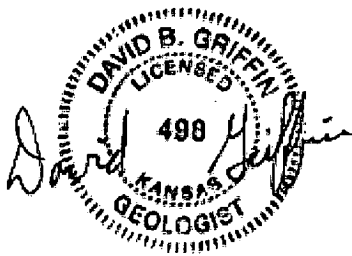
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**Recommendations:**

This well had an approximate 15' thick pay zone section from 1648' to 1663' (sample), with very good free light gravity oil shows from 1648' to 1654' and from 1660' to 1663'. The top of the dolomite pay zone was 19' structurally lower than in Dye No. 28. Based on the sample observations, 4 1/2-inch casing was set and cemented. Dye No. 37 should be useful as an injector.

Based on the log responses, saltwater calculations and sample observations, it is recommended that the Mississippian Dolomite be perforated from 1651' to 1665' (KB, Open-Hole Log) and stimulated with acid for intended use as an injector well.

Respectfully Submitted,



David B. Griffin, RG  
Consulting Geologist

Attachment: Drilling Time, Sample Description and Geological Tops Log

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### Dye No. 37

#### Mississippian Dolomite

Model = Archie															
PARAMETERS	ZN	DEPTH	THK	RT	PHI	RWA	RO	MA	SW	BVW	VSH	PAY	FLOW		
X	1	1620	0.5	21.6	10.0%	0.21	11.07	2.29	71.6%	0.071	1.162	0			
Y	2	1620.5	0.5	21.7	9.0%	0.17	13.69	2.19	79.4%	0.071	1.015	0			
A	1	3	1621	0.5	22	8.1%	0.14	16.81	2.11	87.4%	0.071	0.908	0		
M	2	4	1621.5	0.5	22.3	7.6%	0.13	18.87	2.07	91.9%	0.070	0.882	0		
N	2	5	1622	0.5	22.7	7.5%	0.13	19.18	2.07	91.9%	0.070	0.880	0		
RW	0.11	6	1622.5	0.5	23.1	7.8%	0.14	18.19	2.09	88.8%	0.069	0.843	0		
CTHK	70.5	7	1623	0.5	23.5	8.2%	0.16	16.55	2.14	84.0%	0.068	0.797	0		
AVPHI	0.12	8	1623.5	0.5	23.9	8.5%	0.18	15.00	2.19	79.2%	0.068	0.777	0		
FTOIL	1.11	9	1624	0.5	24.6	8.8%	0.19	14.29	2.22	76.2%	0.067	0.795	0		
PAYFEET	28.5	10	1624.5	0.5	25.6	8.6%	0.19	15.03	2.22	76.7%	0.066	0.841	0		
P	8581	11	1625	0.5	26.7	7.9%	0.17	17.71	2.16	81.4%	0.064	0.839	0		
Q	4.4	12	1625.5	0.5	28.2	6.9%	0.13	23.21	2.07	96.8%	0.062	0.725	0		
R	2	13	1626	0.5	29.7	5.9%	0.10	31.78	1.98	108.4%	0.061	0.560	0		
DMIN	1620	14	1626.5	0.5	31.5	5.2%	0.09	40.21	1.92	118.0%	0.059	0.446	0		
DMAX	1690	15	1627	0.5	33.3	5.0%	0.08	43.23	1.91	118.9%	0.057	0.390	0		
KB	1109	16	1627.5	0.5	35.1	5.2%	0.09	41.07	1.95	108.1%	0.056	0.364	0		
TD	1727	17	1628	0.5	36.8	5.4%	0.11	37.36	2.00	100.7%	0.055	0.384	0		
BHT	90	18	1628.5	0.5	38.2	5.7%	0.12	34.23	2.04	92.6%	0.054	0.441	0		
ST	75	19	1629	0.5	39	5.8%	0.13	32.51	2.06	91.5%	0.053	0.468	0		
RMF	1.4	20	1629.5	0.5	39.3	5.9%	0.14	31.78	2.08	89.9%	0.053	0.451	0		
RMFT	75	21	1630	0.5	39.4	6.0%	0.14	30.43	2.09	87.9%	0.053	0.441	0		
		22	1630.5	0.5	39.7	6.2%	0.15	28.20	2.12	84.3%	0.053	0.451	0		
		23	1631	0.5	40.6	6.4%	0.17	26.97	2.15	81.5%	0.052	0.463	0		
		24	1631.5	0.5	42.4	6.3%	0.17	27.60	2.16	80.7%	0.051	0.477	0		
		25	1632	0.5	45	6.1%	0.17	29.21	2.15	80.6%	0.049	0.495	0		
		26	1632.5	0.5	48.1	5.9%	0.17	31.65	2.15	81.1%	0.048	0.465	0		
		27	1633	0.5	51.8	5.5%	0.16	36.38	2.12	88.8%	0.046	0.368	0		
		28	1633.5	0.5	56.1	5.6%	0.14	44.18	2.08	88.7%	0.044	0.260	0		
Colors:	ON	29	1634	0.5	60.4	4.5%	0.12	54.31	2.03	94.8%	0.043	0.190	0		
		30	1634.5	0.5	64.1	4.1%	0.11	64.50	2.00	100.3%	0.041	0.166	0		
RSH		31	1635	0.5	66.8	3.9%	0.10	70.71	1.98	102.9%	0.041	0.193	0		
PHISH		32	1635.5	0.5	68.5	4.0%	0.11	69.30	2.00	100.6%	0.040	0.269	0		
		33	1636	0.5	68.5	4.2%	0.12	61.84	2.03	96.0%	0.040	0.348	0		
		34	1636.5	0.5	65.2	4.6%	0.14	53.07	2.07	96.2%	0.041	0.369	0		
		35	1637	0.5	57.9	5.0%	0.14	44.11	2.09	87.3%	0.044	0.329	0		
		36	1637.5	0.5	48.5	5.7%	0.16	33.80	2.13	88.5%	0.048	0.296	0		
		37	1638	0.5	39.8	6.5%	0.19	23.49	2.20	76.8%	0.053	0.332	0		
Lat-Long to UTM		38	1638.5	0.5	33.3	8.3%	0.23	15.90	2.30	69.1%	0.058	0.445	0		
LONG		39	1639	0.5	28.7	9.8%	0.28	11.32	2.40	62.9%	0.062	0.590	0		
LAT		40	1639.5	0.5	25.2	11.2%	0.32	8.81	2.48	59.1%	0.066	0.692	0.02		
UTMZONE		41	1640	0.5	22.5	12.0%	0.33	7.58	2.51	58.0%	0.070	0.711	0.03		
PRIZONE		42	1640.5	0.5	20.4	12.5%	0.32	7.09	2.51	58.9%	0.073	0.690	0.03		
UTM X		43	1641	0.5	19	12.4%	0.29	7.16	2.47	61.3%	0.076	0.674	0.02		
UTM Y		44	1641.5	0.5	18.3	11.9%	0.26	7.78	2.40	65.1%	0.077	0.660	0.02		
		45	1642	0.5	18.1	11.2%	0.23	8.74	2.33	69.5%	0.078	0.640	0.02		
SIM PARAMETERS		46	1642.5	0.5	18	10.8%	0.21	9.40	2.29	72.3%	0.078	0.617	0.01		
GR PAY		47	1643	0.5	17.8	11.0%	0.22	9.06	2.31	71.3%	0.079	0.603	0.02		
NET PAY		48	1643.5	0.5	17.7	11.7%	0.24	8.05	2.37	67.5%	0.079	0.588	0.02		
PAY TOP		49	1644	0.5	17.4	12.2%	0.26	7.34	2.41	64.9%	0.079	0.549	0.02		
AVG PHI		50	1644.5	0.5	17.1	12.2%	0.26	7.34	2.40	65.6%	0.080	0.487	0.02		
PERM X		51	1645	0.5	16.6	11.7%	0.23	7.99	2.34	69.3%	0.081	0.422	0.02		
PERM Y		52	1645.5	0.5	16	10.8%	0.19	9.34	2.24	76.5%	0.083	0.367	0.01		
PERM Z		53	1646	0.5	15.1	9.7%	0.14	11.70	2.11	87.9%	0.085	0.321	0		
OIL SAT		54	1646.5	0.5	14.1	8.7%	0.11	14.64	1.99	101.7%	0.088	0.280	0		
WTR SAT		55	1647	0.5	13.2	8.1%	0.09	16.56	1.91	112.2%	0.091	0.260	0		
INT PR		56	1647.5	0.5	12.3	8.3%	0.08	16.11	1.89	114.5%	0.095	0.270	0		
		57	1648	0.5	11.8	8.5%	0.09	14.09	1.92	110.3%	0.097	0.306	0		
LANDGRID		58	1648.5	0.5	11	9.5%	0.10	12.16	1.96	105.4%	0.100	0.360	0		
TWN		59	1649	0.5	10.4	10.1%	0.11	10.80	1.98	102.1%	0.103	0.404	0		
SEC		60	1649.5	0.5	9.83	10.7%	0.11	9.54	2.01	98.5%	0.106	0.407	0		
FL North		61	1650	0.5	9.38	11.7%	0.13	8.05	2.07	92.7%	0.108	0.396	0		
FL South		62	1650.5	0.5	9	12.9%	0.15	6.59	2.15	85.6%	0.111	0.433	0		
FL East		63	1651	0.5	8.68	14.2%	0.18	5.43	2.24	79.1%	0.113	0.503	0.01		
FL West		64	1651.5	0.5	8.38	15.5%	0.20	4.56	2.33	73.8%	0.115	0.551	0.02		
		65	1652	0.5	8.1	16.6%	0.22	4.01	2.39	70.4%	0.117	0.559	0.02		
CROSS SECTION		66	1652.5	0.5	7.84	16.8%	0.22	3.89	2.39	70.5%	0.118	0.537	0.02		
DATUM 1		67	1653	0.5	7.61	16.2%	0.20	4.17	2.33	74.0%	0.120	0.516	0.02		
DATUM 2		68	1653.5	0.5	7.43	15.4%	0.18	4.64	2.25	79.0%	0.122	0.509	0.02		
No. of Prf		69	1654	0.5	7.3	14.7%	0.16	5.11	2.19	83.6%	0.123	0.500	0		

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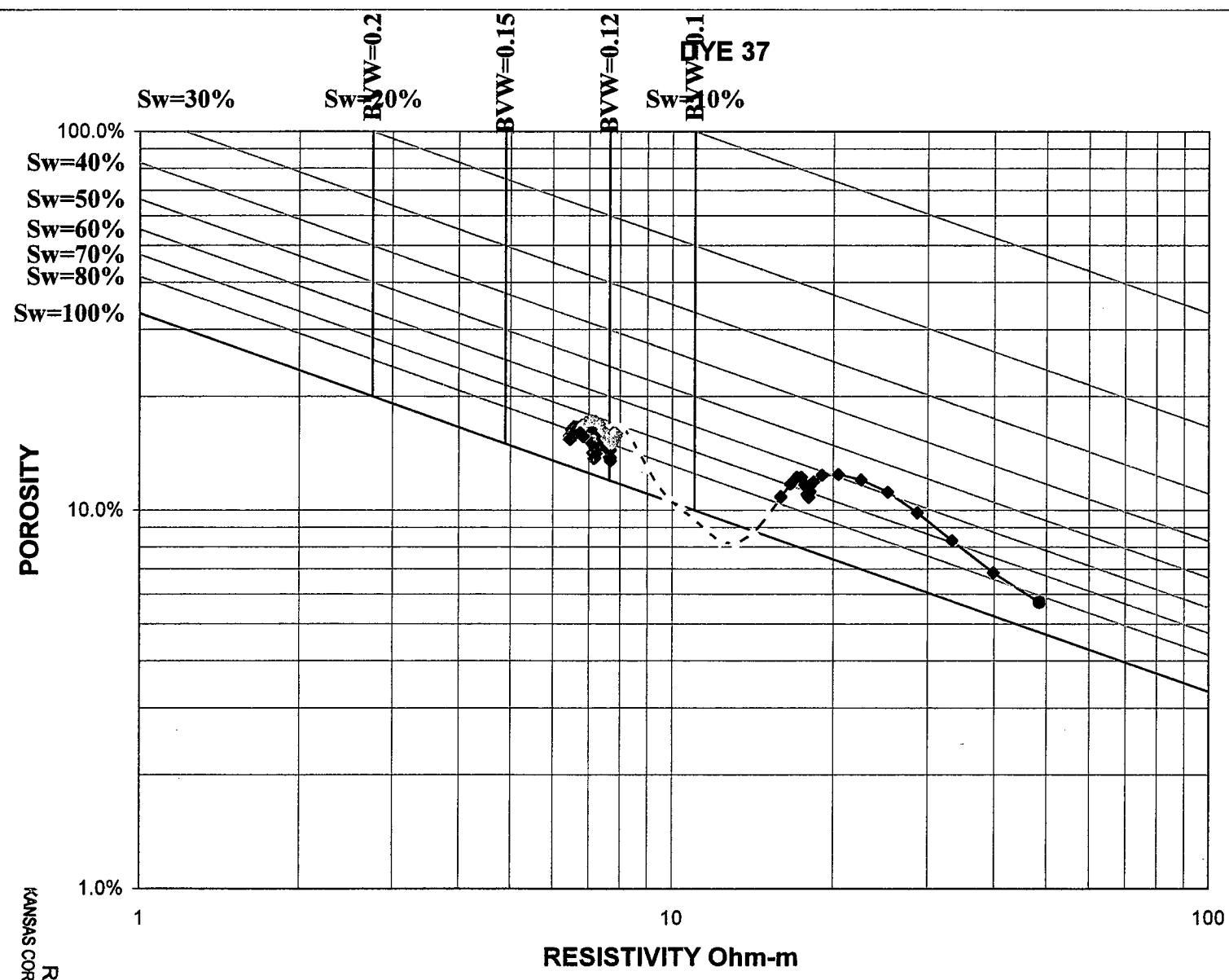
CONSERVATION DIVISION  
WICHITA, KS

	70	1654.5	0.5	7.22	14.1%	0.14	5.51	2.14	87.3%	0.123	0.492	0
	71	1655	0.5	7.18	13.7%	0.14	5.83	2.11	90.1%	0.124	0.480	0
	72	1655.5	0.5	7.15	13.7%	0.13	5.87	2.10	90.6%	0.124	0.469	0
	73	1656	0.5	7.1	14.2%	0.14	5.47	2.13	87.7%	0.124	0.478	0
	74	1656.5	0.5	7.04	15.1%	0.16	4.81	2.20	82.6%	0.125	0.505	0
	75	1657	0.5	6.96	16.1%	0.18	4.24	2.27	78.1%	0.126	0.513	0.02
	76	1657.5	0.5	6.87	16.6%	0.19	4.00	2.30	76.3%	0.127	0.510	0.02
	77	1658	0.5	6.8	16.5%	0.19	4.03	2.29	77.0%	0.127	0.549	0.02
	78	1658.5	0.5	6.72	16.5%	0.18	4.05	2.28	77.6%	0.128	0.639	0.02
	79	1659	0.5	6.65	16.6%	0.18	3.98	2.29	77.4%	0.129	0.728	0.02
	80	1659.5	0.5	6.56	16.7%	0.18	3.96	2.28	77.6%	0.129	0.750	0.02
	81	1660	0.5	6.49	16.3%	0.17	4.13	2.25	79.7%	0.130	0.705	0
	82	1660.5	0.5	6.44	15.8%	0.16	4.42	2.20	82.8%	0.130	0.635	0
	83	1661	0.5	6.43	15.4%	0.15	4.64	2.17	85.0%	0.130	0.571	0
	84	1661.5	0.5	6.47	15.4%	0.15	4.63	2.18	84.6%	0.130	0.530	0
	85	1662	0.5	6.56	15.9%	0.17	4.36	2.22	81.6%	0.130	0.511	0
	86	1662.5	0.5	6.68	16.5%	0.18	4.04	2.28	77.8%	0.128	0.505	0.02
	87	1663	0.5	6.8	16.8%	0.19	3.89	2.31	75.7%	0.127	0.490	0.02
	88	1663.5	0.5	6.91	16.7%	0.19	3.93	2.32	75.4%	0.126	0.447	0.02
	89	1664	0.5	7.02	16.6%	0.19	3.98	2.32	75.3%	0.125	0.402	0.02
	90	1664.5	0.5	7.15	16.5%	0.19	4.04	2.32	75.2%	0.124	0.375	0.02
	91	1665	0.5	7.29	16.2%	0.19	4.20	2.30	75.9%	0.123	0.364	0.02
	92	1665.5	0.5	7.43	15.5%	0.18	4.57	2.26	78.5%	0.122	0.361	0.02
	93	1666	0.5	7.56	14.6%	0.16	5.18	2.20	82.8%	0.121	0.367	0
	94	1666.5	0.5	7.64	13.8%	0.15	5.79	2.14	87.1%	0.120	0.393	0
	95	1667	0.5	7.67	13.5%	0.14	6.04	2.12	88.7%	0.120	0.426	0
	96	1667.5	0.5	7.68	13.8%	0.15	5.80	2.14	86.9%	0.120	0.442	0
	97	1668	0.5	7.67	14.4%	0.16	5.29	2.19	88.0%	0.120	0.456	0
	98	1668.5	0.5	7.68	15.2%	0.18	4.78	2.25	78.9%	0.120	0.479	0.02
	99	1669	0.5	7.72	15.8%	0.19	4.43	2.30	75.8%	0.119	0.501	0.02
	100	1669.5	0.5	7.78	16.0%	0.20	4.31	2.32	74.4%	0.119	0.510	0.02
	101	1670	0.5	7.84	16.0%	0.20	4.29	2.33	74.0%	0.118	0.486	0.02
	102	1670.5	0.5	7.87	15.9%	0.20	4.33	2.33	74.1%	0.118	0.444	0.02
	103	1671	0.5	7.86	15.7%	0.19	4.46	2.31	75.4%	0.118	0.461	0.02
	104	1671.5	0.5	7.81	15.3%	0.18	4.69	2.27	77.5%	0.119	0.548	0.02
	105	1672	0.5	7.73	15.0%	0.17	4.87	2.24	79.4%	0.119	0.625	0.02
	106	1672.5	0.5	7.64	15.0%	0.17	4.86	2.24	79.7%	0.120	0.642	0.02
	107	1673	0.5	7.54	15.5%	0.18	4.58	2.27	78.0%	0.121	0.607	0.02
	108	1673.5	0.5	7.44	16.2%	0.20	4.18	2.32	75.0%	0.122	0.549	0.02
	109	1674	0.5	7.32	16.9%	0.21	3.84	2.36	72.4%	0.123	0.490	0.02
	110	1674.5	0.5	7.2	17.3%	0.21	3.70	2.38	71.7%	0.124	0.441	0.02
	111	1675	0.5	7.08	17.3%	0.21	3.69	2.37	72.2%	0.125	0.425	0.02
	112	1675.5	0.5	6.99	17.2%	0.21	3.70	2.36	72.7%	0.125	0.445	0.02
	113	1676	0.5	6.92	17.1%	0.20	3.75	2.35	73.6%	0.126	0.468	0.02
	114	1676.5	0.5	6.85	16.8%	0.19	3.88	2.32	75.3%	0.127	0.475	0.02
	115	1677	0.5	6.77	16.4%	0.18	4.07	2.28	77.5%	0.127	0.483	0.02
	116	1677.5	0.5	6.75	16.0%	0.17	4.31	2.24	79.9%	0.128	0.520	0.02
	117	1678	0.5	6.82	15.7%	0.17	4.48	2.23	81.0%	0.127	0.591	0
	118	1678.5	0.5	7.01	15.8%	0.17	4.43	2.25	79.4%	0.125	0.682	0.02
	119	1679	0.5	7.28	16.0%	0.19	4.28	2.29	76.7%	0.123	0.742	0.02
	120	1679.5	0.5	7.52	16.1%	0.20	4.23	2.32	75.0%	0.121	0.690	0.02
	121	1680	0.5	7.71	15.9%	0.19	4.36	2.31	75.2%	0.119	0.567	0.02
	122	1680.5	0.5	7.84	15.4%	0.19	4.64	2.28	76.9%	0.118	0.495	0.02
	123	1681	0.5	7.94	14.8%	0.17	5.04	2.24	79.6%	0.118	0.496	0.02
	124	1681.5	0.5	8.03	14.1%	0.16	5.52	2.19	82.9%	0.117	0.529	0
	125	1682	0.5	8.13	13.6%	0.15	5.99	2.15	85.8%	0.116	0.585	0
	126	1682.5	0.5	8.24	13.1%	0.14	6.39	2.13	88.0%	0.116	0.657	0
	127	1683	0.5	8.37	12.8%	0.14	6.76	2.10	89.9%	0.115	0.723	0
	128	1683.5	0.5	8.51	12.4%	0.13	7.20	2.08	92.0%	0.114	0.744	0
	129	1684	0.5	8.7	11.9%	0.12	7.76	2.05	94.5%	0.112	0.710	0
	130	1684.5	0.5	8.99	11.4%	0.12	8.40	2.03	96.7%	0.111	0.641	0
	131	1685	0.5	9.4	10.9%	0.11	9.24	2.01	99.1%	0.108	0.554	0
	132	1685.5	0.5	9.88	10.3%	0.11	10.34	1.98	102.3%	0.106	0.508	0
	133	1686	0.5	10.3	10.0%	0.10	11.06	1.97	108.5%	0.103	0.567	0
	134	1686.5	0.5	10.7	10.2%	0.11	10.51	2.01	98.9%	0.101	0.688	0
	135	1687	0.5	11.2	10.9%	0.13	9.24	2.09	91.0%	0.099	0.762	0
	136	1687.5	0.5	11.7	11.3%	0.15	8.57	2.14	85.7%	0.097	0.769	0
	137	1688	0.5	12.3	11.1%	0.15	8.94	2.14	85.4%	0.095	0.783	0
	138	1688.5	0.5	12.8	10.4%	0.14	10.26	2.10	88.4%	0.093	0.824	0
	139	1689	0.5	13.3	9.4%	0.12	12.51	2.03	97.0%	0.091	0.815	0
	140	1689.5	0.5	13.6	8.4%	0.10	15.53	1.95	106.9%	0.090	0.706	0
	141	1690	0.5	13.6	7.8%	0.08	17.98	1.89	114.8%	0.090	0.558	0

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MISSISSIPPIAN  
DOLOMITE  
Depth: 1640 - 1680  
X:  
Y:  
a: 1  
m: 2  
n: 2  
RW: 0.11



**DEPT**

- 1672 - 1680
- 1664 - 1672
- 1656 - 1664
- 1648 - 1656
- 1640 - 1648

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CONSERVATION DIVISION  
WICHITA, KS  
DEC 22 2008

Depth	Lithology	Shows	Drilling Time in Minutes per Foot Rate of Penetration Decreases					Well No: Dye No. 37	Pg. 1 of 2
			5	10	15	20	25	30	Location: NESWSWSW SEC. 7, T24S-R14E
			←—————→					Sample Descriptions	Remarks
1250								LS, tan, fxtln, ns	
6-18-07 1030 AM								sh, blk, coal trace	
								LS, ltgy, v fxtln, prd, ns	Cherokee
		slight show of tar						shale, blk	1208 (-159)
								siltstone, gray, hard, micaceous 10% ss v fnd, gy, frp, slight sh tar No odor	U Squirrel SS
								siltst, AA, sh, gy, min. ss lam, vst show tar, driller rptd sh odor none now.	1275 (-166)
								shale, gy, silty, mica, carb	
1300								sh, gy, min. silt	
								LS, gray, prd, ns	
								sh, gy, mica	
								ss, ltgy, v fnd, well cem. pr. frp ns or odor,	
								sh, gy, silty, mica, carb, few ss lam AA	
								sh, dkgy, silty, carb, mica lam shaley ss, ns	
								AA	
1350								AA	
								sh, gy to blk	
								coal	
								LS	Ardmore LS
								sh, blk	1373 (-264)
		fair show of free oil						SS, ltgy, v fnd, frp, fair show of free oil, 25-30% pi, smpl. rpts gd odor, not continuous, v. micaceous	Cattleman SS
								some light, prob. Non-Com No Fluor	1383 (-274)
1400								sh, gy to dkgy	
								coal	
								sh, ltgy-dkgy	
								tr coal	
								LS, brown, dense	
								sh, gray w/ siltst, lam v f. grnd	
								coal	
1450								sh, gy, siltst lam,	
								sh, gy to vdkgy, some blk & tan claystone	
								tr, LS, dkgy	
								sh, gy - blk, tan clay	
								coal	
6-18-07 2:45 PM								sh, gy, mica, silty to blk	Bartlesville zone
1500									1491 (-382) Blk Sh. Marker

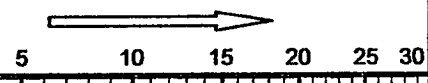
10 samples

Mud Up

Mud  
vis 38  
wt 9.2

Well No: Dye No. 37  
Location: NESWSW4  
SEC. 7 T24S-R14E

Drilling Time in Minutes per Foot  
Rate of Penetration Decreases



Depth	Lithology	Shows
1500		
6-18-07		
1000 AM		
1550		
1600		
1650		fair oil show, LS fair oil show, SS oil show v. oil show
1700		
6-18-07		
11:30P.		
1750		

Drilling Time in Minutes per Foot	Sample Descriptions
10' samples	sh, gy-bk, silty mica
	sh, AA
	SS, lt gray, vt-fgnd, subang. fr φ, ns or odor, mostly lam.
	AA sh, AA, few SS laminae
	coal sh, blk
	sh, lt gy-gy, pyrite, few ss lam
	sh, vdk gy to blk
	coal
	sh, vdk gy to blk
	coal, trace
	sh, vdk gy to blk
	coal, trace
Start 5' samples	Shale, gy to tangy, waxy, clayey
	coal, Chat, conglomerate? sdy siltst matrix, 5% chert wh, shgy-bk
Start stop watch	20% chert, wh-gy and sdy siltstone
CES 5/10/20	LS, tan to dk brn, weathered, f. xtn fr xtn φ, 30% siltst, silsdy, gngy No show or odor
CES 5/10/20	LS, cream to v. lt gy, f-med xtn, pelletal, fr φ, with sdy silt, fr-gd odor, sl show oil washing out, moldy φ 1628-1637
CES 5/10/20	SS, sand silt, qtz, cl-vlt gy, fr φ, glassy, fair to gd odor, no oil bleeding
CES 5/10/20	Dol, lt tannish gy, v. calcitic, fr φ, sl. odor, no vug, sl. odor, few pieces w/ frgd oil washing
CES 5/10/20	Dol, tan to brown, calc., vt-f sucrose fr-gd xtn φ, 6% dol xtn in large vugs in places, v. good odor, washing streams of oil, vgd to exc. cum oil on days; SS, 1654-1657, cl-rtz, pr-fr φ, some soft w/ oil show exc. vug φ at 1660-62 w/ vgd oil show
	Best Pay 1648-54, 1600-1663
	Dol, gy tan to gray, v f xtn, fr xtn φ, fr-gd vug φ, NS chert, 1663-80, few siltstone beds, v little oil show
End stop watch	
	LS, v. lt gy, f-cse xtn, soft, fr-gd φ, No show or odor
	Dol, lt gy to gy brn, mostly lt gy, some shaley,
	Dol, dk grayish brn, ns
	Dolomitic shale dk gy brn
	Dol, dk gy-brn,
	LS, cream to v lt gy w/ gymottling, grainstone, foss, chert, white
	LS, AA tannish gy to grayish brn, f-cse xtn, granular, fr φ, 30-40% chert, wh-tan-gy

Chat Cgl. 1608(-499)

Miss. LS 1619(-510)

Miss. Dol Pay 1648(-539)

Miss. LS 'B' 1711(-602)

Total Depth 1727(-618)

Open Hole Logged By Log-Tech