



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1088789  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

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

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1088789

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

 **ENTERED**

TICKET NUMBER 34602  
LOCATION Evieva  
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

API # 15-049-22566

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/8/12	4758	Jordan * 2-1	1	29	9E	FL
CUSTOMER Layne Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 140			485	Alan M.		
CITY Sycamore			515	Joey		
STATE KS		ZIP CODE 67363				

JOB TYPE s/p 0 HOLE SIZE 1 7/8" HOLE DEPTH 41' CASING SIZE & WEIGHT 8 5/8"  
CASING DEPTH 40' G.L. DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 15" SLURRY VOL 13 Bbl WATER gal/sk 6.5 CEMENT LEFT in CASING 5'  
DISPLACEMENT 2 3/4 Bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 8 5/8" casing. Break circulation w/ fresh water. Mixed 55 sks class A cement w/ 3% cack 2 + 2% gel @ 15#/gal. yield 1.35. Displace w/ 2 3/4 Bbl fresh water. Shut casing in w/ 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	825.00	825.00
5406	25	MILEAGE	4.00	100.00
11045	55 sks	class A cement	14.95	822.25
1102	155"	3% cack 2	.74	114.70
11188	105"	2% gel	.21	22.05
5407	2.59	tan mileage bulk tck	n/c	350.00
		249633 7.3%	subtotal	2234.00
			SALES TAX	70.00
			ESTIMATED TOTAL	2304.00

Ravin 3737

AUTHORIZATION [Signature] TITLE Drilling Foreman DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

ENTERED

TICKET NUMBER 34672  
LOCATION Elvira  
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

API # 15-049-22566

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/21/12	4758	Jordan # 2-1	1	295	9E	ELK
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			520	John		
MAILING ADDRESS			479	Merle		
P.O. Box 1160			515	Celin		
CITY	STATE	ZIP CODE				
Sycamore	KS	67363				

Layne Energy

JOB TYPE L/S 0 HOLE SIZE 7 7/8" HOLE DEPTH 2585' CASING SIZE & WEIGHT 5 1/2" 15.5"  
 CASING DEPTH 2577' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.7" 12.6" SLURRY VOL 41 Bbl, 83 Bbl WATER gal/sk 9.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 60.3 - 39 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting - D.V. Tool set @ 1649' c.l. Rig up to 5 1/2" casing. Break circulation w/ fresh water. Pump 10 Bbl caustic soda pre-flush, 5 Bbl water spacer. Mixed 130 sacks thickset cement w/ 5" Katsol/sk, 1" phenoxal/sk + 1/8% CFL-115 @ 13.7" /gal. yield 1.25. Washout pump + lines, release floor plug. Displace plug w/ 60.3 Bbl fresh water. Final pump pressure 1600 PSI. Pump plug to 1200 PSI. Wait 2 mins. release pressure floor held. Drop trip bomb. Open D.V. tool @ 1200 PSI. Create 8 Bbl slurry cement to pit. Circulate for 2 1/2 hrs w/ mud pump. Stage 1 complete. Stage #2. Pump 5 Bbl water ahead. Mixed 275 sacks 60/40 Pozmix cement w/ 8% 1" phenoxal/sk @ 12.6" /gal. 1.70 yield. Washout pump + lines, release closing plug. Displace w/ 39 1/4 Bbl fresh water. Final pump pressure 800 PSI. Close DV tool @ 1100 PSI. Pump plug to 1500 PSI. Good cement returns to pit = 15 Bbl slurry 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 Stage #1	1030.00	1030.00
5406	25	MILEAGE	4.00	100.00
5401	1	Stage #2	1030.00	1030.00
1126A	130 sacks	thickset cement	19.20	2496.00
1110A	650"	5" Katsol/sk	.46	299.00
1107A	130"	1" phenoxal/sk	1.29	167.70
1135A	16"	1/8% CFL-115	10.55	168.80
1131	275 sacks	60/40 Pozmix cement	12.55	3451.25
1113B	1900"	8% gel	.21	399.00
1107A	275"	1" phenoxal/sk	1.29	354.75
1103	100"	caustic soda pre-flush	1.61	161.00
5407A	18.97	tan mileage bulk tire	1.34	635.50
4159	1	5 1/2" AFU float shoe	344.00	344.00
4104	2	5 1/2" cement baskets	229.00	458.00
4277	1	5 1/2" DV tool stage collar w/ plugs	3220.00	3220.00
			Subtotal	14315.00
			SALES TAX	840.92
			ESTIMATED TOTAL	15155.92

250022

7.3%

Ravin 3737

AUTHORIZATION

*John M. [Signature]*

TITLE

*Drilling Foreman*

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 26, 2012

Victor H Dyal  
Layne Energy Operating, LLC  
PO BOX 160  
SYCAMORE, KS 67363

Re: ACO1  
API 15-049-22566-00-00  
Jordan 2-1  
NE/4 Sec.01-29S-09E  
Elk County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Victor H Dyal

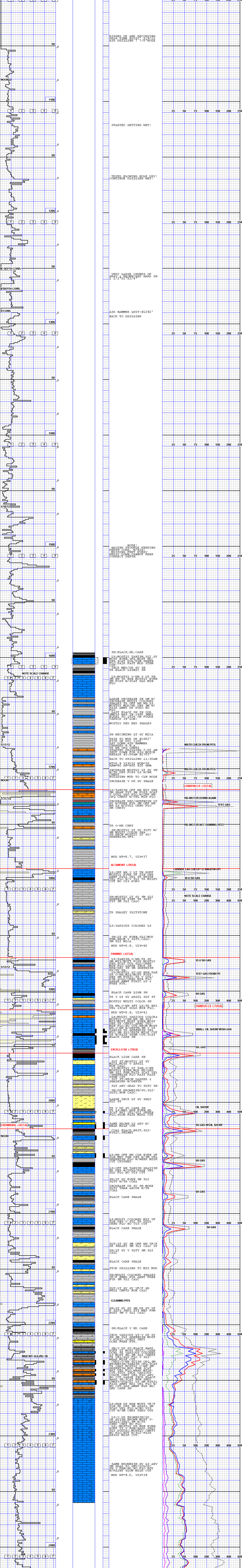


COMPANY: LAYNE ENERGY  
WELL: JORDAN #2-1  
LOCATION: 3507N. 1670E1 SW. NE. NW. NE SEC. 1 - TWP. 29S, R10G. 9E

DATES LOGGED: 5/9/12 to 5-14-12  
DEPTHS LOGGED: 1052' to 2426'

GEOLOGIST: JASON BURRIS

KL: 1188  
NL: 1197  
UNIT No: P#W2  
LOGGERS: PIKE WORD & TOM ROMANS



RIGGED UP AND RECORDING DEPTH CORR... AIR DRILLING 7 7/8" HOLE

STARTED GETTING WET!

TRIED BLOWING HOLE DRY! CONTINUE DRILLING WET!

VERY LARGE CHUNKS OF GRAY & BROWN/RED HARD SH 1 1/2" X 1 3/4"

AIR HAMMER QUIT! @1292' BACK TO DRILLING

NOTE SCALE CHANGE

HAVING TROUBLE KEEPING DEPTH CORR... MISSING FEET EVERY FEET DOWN... CANNOT REEP CORRECT DEPTH

SH: BLACK, HD, CARB  
LS: MOSTLY TANISH, SLT GY  
INCR. BROWN/WH/GRN/BLK  
DYS. SLT, DUL/DIM GREEN CUT  
TR: MED/DK GY SH  
TR: BLACK LIGNIC SH

LS: MOSTLY O-WH V LT TN  
SH: SH TR BRN MOSTLY EVEN  
SM FOSS W/SCAT GLD MIN PLO

LARGE DECREASE IN LM W/ SHALES... TR: MED/DK GY SH  
TR: BLACK LIGNIC SH

SH BECOMING LT GY MICA  
TR: TO MUD UP @1682'  
TR: WH DEP. CHERT  
REPAIR 9:00AM @1703

INCREASE MOSTLY LT GY SM  
M/TR DNS FOSS LS W/WH  
BUILDING MUD TO CLN HOLE  
INCREASE V DK GY SHALE

LS: TANISH OFF WH MIX DNS  
SM GRAN FXT SM FOSS SCAT  
V TR: CHRT W/YEL. BRN  
OPO CHERT W/YEL MIN PLO

TR: O-WH CHRT  
SH: MOSTLY LT GY SLTY W/  
SH BECM MOSTLY LT GY/  
GREENISH, SFT.

MUD WT=8.7, VIS=37  
**ALTAMONT (593.0)**

LS: OFF WH V LT TN BUFF  
MOSTLY EVEN VP SLN DNS  
VEL PLO W/V SLT TR MILKY  
CUT NO VIS POWO

SH: MOSTLY LT GY SM SLI  
GREENISH TINT TR SLTY  
FXT SM SLI CALC.

TR: SHALEY SLITSTONE  
LS: VARIOUS COLORED LS

SH: LT GY EVEN, SLI/MD  
TR: SLT MICA  
MUD WT=8.8, VIS=40  
**PAWNEE (673.0)**

LS: TANISH, O-WH, TR, GY  
SM MIX MOD. FOSS MOSTLY  
MIN PLO. LARGE INCR IN  
TR: SLTY W/WH/DEPT. SM V TR  
DYS. SM TR. BRN/WH/GRN  
PLO. W/FAIR SLTY MILK CUT  
LARGE AMT PYRIC LS 4  
FREE PYR.

BLACK CARB LIGN SH  
TR: V LT GY ARGIL SLT ST  
MOSTLY MULTI COLOR SH  
TR: WH, CHRT, SFT TR, BRN  
ARG. & CALC. SFT TR, MILK CUT.  
MUD WT=8.9, VIS=41

LS: MULTI VARIOUS COLOR  
MOSTLY O-WH WH SM SFT  
DYS. TR CHRT, ASND VCLC  
TR: SLTY W/WH/DEPT. SM V TR  
DYS. SM TR. BRN/WH/GRN  
PLO. W/FAIR SLTY MILK CUT  
BLACK CARB SH

**EXCELLO SH (759.0)**  
BLACK LIGN CARB SH  
SLT ST: MOSTLY LT GY  
MICA, MOST V ARGIL  
NOW CALC.  
LS: MOSTLY LT TAN, O-WH  
MOSTLY EVEN, MOD HD/DSE  
SM SLI FRM FAT, SCAT, YEL  
PLO. W/FAIR SLTY MILK CUT  
STRM CUT  
SH: SLTY BECM DARKER &  
SHALEYER W/DEPTH  
SLT ABV GRAD TO SLTY SH  
TR: DK BROWN/SH/GY, SLI-  
SLTY, NON CALC.  
LARGE INCR LT GY SHLY  
SLT ST

TR: V DK GY CARB SH  
TR: LS: MED, BRN EVEN, HD  
PLO, SLOW FAIR MILK CUT

**CROWNBURG (827.0)**  
SAME BROWN LS ABV W/  
WEAR MILK CUT  
COAL BLACK, BRIT, SLI-  
PYRIC, SHINEY

LS: WH OFF WH CLN EVEN VP  
TR: LS: MED, BRN EVEN, HD  
PLO, SLOW FAIR MILK CUT

LS: OFF WH TANISH GRAYISH  
HD DNS W/DULL/PALE YEL  
OLD PLO NO VIS CUT

SH: LT GY EVEN SM SLI  
INCREASE DK GY SH MORE  
SLTY THAN ABOVE W/TR  
COAL

BLACK CARB SHALE

LS: MULT COLORED MIX VP  
TR: DNS V SLT TR DULL  
ORNG PLO NO VIS CUT  
BLACK CARB SHALE

SLT: LT GY SM OFF WH VP/F  
GR SHALEY SM SLI CALC LP  
SH: LT GY V SLTY SM SLI  
CALC

BLACK CARB SHALE  
STOP DRILLING TO MIX MUD

SH: MULT COLORED SHALES  
TR: MULT COLORED SHALES  
FXT SM SLI CALC

SLT: LT GY GY VP/F GR  
WELL CMFD NON CALC

**CLEANING PITS**  
SH: LT GY GY SM DK GY VP  
F, SLTY, SND, FXT MED FRM  
BLK, SM V SLI CALC

SH: BLACK V HD CARB  
INCR VARIOUS LT-V DK GY  
TR: SLT BRN/WH/GRN/BLK  
V PYRIC ONLY SNDY  
OCLN FREE PYR.

SH: V DK GY-BLACK HARD  
TR: SLT BRN/WH/GRN/BLK  
V PYRIC ONLY SNDY  
OCLN FREE PYR.

LS: BRN DK BRN MOTT VP/F  
TR: HD DNS SM ARGIL SM  
CUT W/SM CHRT THRU OUT

LS: V DK BROWN/SH/GY-  
O/WH/SHLY, SM W/TR  
TR: SLTY W/WH/DEPT. SM V TR  
DYS. SM TR. BRN/WH/GRN  
PLO. W/FAIR SLTY MILK CUT

SAME BROWN/SH/GY LS ABV  
SM GRAN/WH/GRN/BLK  
W/PAINT SLOW MILK CUT  
MUD WT=9.0, VIS=39