



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233650
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: _____

1233650

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MORNING DRILLING REPORT

For: H&D Exploration

SOUTHWIND DRILLING, INC.

RIG No. 2

Well Name: Kaufman "A" #2
 Location: 2310' FNL & 2310' FWL
 Section: 9-15S-12W
 County: Russell
 API: 15-167-24012-00-00

Elevation: GL 1842'
 KB 1851'
 Est. TD: 3400'

Rig No. 2 (Pusher Bill Sanders) 620-617-0706
 Rig No. 2 (Doghouse) 620-617-5921
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 18 joints of new 23#, 8 5/8" casing, Tally @ 742', Set @ 752', used 325 sacks of 80/20, 3% cc, 2% gel, cement circulated, by Quality (Ticket #6307), plug down @ 1:00 pm on 11.22.14.

Production info: Ran 81 joints of new 15.5#, 5 1/2" casing, Tally @ 3378', Set @ 3387', used 170 sacks of Common, 10% salt, 5% Gilonite, cemented, by Quality (Ticket #891), job complete @ 1:00 am on 11.29.14.

Rotary Total Depth: 3389'
 Log Total Depth: 3385'

Geologist: Jim Musgrove

7:00 A.M. Depth: 3389'

7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	11/21/14	11/22/14	11/23/14	11/24/14	11/25/14	11/26/14	11/27/14	11/28/14	11/29/14	Total
11/21/2014 @ 8:45 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	
Total Depth (7:00am)	0	700	1430	2180	2885	3296	3300	3389	3389	3389
Daily Progress	700	730	750	705	411	4	89	0		3389
Fl. Per Hr.	103.70	97.33	37.97	37.11	23.15	8.00	14.63	#DIV/0!	#DIV/0!	43.87
Current Operation (7:00am)	Rig Up	Drilling	Drilling	Drilling	Drilling	CFS	CFS	Drilling	Tear Down	
Formation	Surface	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Arbuckle	
Fuel Used (34.5 Gal/Inch)	172.50	276.00	517.50	379.50	554.40	356.40	356.40	198.00		2810.70
Survey (degree & depth)		3/4' @ 753'				3/4' @ 3296'				
Mud Cost	\$0.00	\$1,051.50	\$107.70	\$4,701.25	\$-293.80	\$135.80	\$66.75	\$0.00		\$5,768.80
Weight (# / Gal)						9.1				
Vis (Funnel)						50				
Water Loss (cc)										
Bit #1										
Bit Make / Type	Reed	Reed								
Bit Size	12 1/4	12 1/4								
BR Hours	6.75	0.50								7.25
Bit #2										
Bit Make / Type		Reed R24A	Reed R24A	Reed R24A	Reed R24A	Reed R24A	Reed R24A			
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8			
BR Hours		7.00	19.75	19.00	17.75	0.50	6.00			70.00
Bit Cumulative Hours	6.75	7.50	19.75	19.00	17.75	0.50	6.00	0.00	0.00	77.25
Weight on Bit (WOB)	10,000	15,000	20,000	30,000	35,000	35,000	35,000			
RPM	120	80	80	80	80	80	80			
Pump Pressure	550	650	775	700	750	800	750			
Drilling (Rotating) Hours	6.75	7.50	19.75	19.00	17.75	0.50	6.00	0.00	0.00	77.25
Daywork Hrs. (Operator's time)										
Rat Hole (>.75 Hrs)	0.25									0.25
Wait on Cement		8.00								8.00
Trip		1.00				12.50	9.00	3.25		25.75
Circulate		0.50		0.75	4.25	6.25	4.25	3.50		19.50
Tool						2.00	2.00			4.00
Testing						2.50	2.00			4.50
Clean Floor after DST							0.50			0.50
Wait on Orders										0.50
Logging										0.00
Nipple Down / Jet Cellar								4.25		4.25
LDDP / LDDC								0.50		0.50
Run Casing / Circ / Cement		2.50						2.50		2.50
Set Slips								3.25		3.25
Wait on Loggers								0.50		0.50
Lost Circulation (> 2 hrs)										0.00
Billable Hours	0.25	12.00	0.00	0.75	4.25	23.25	17.75	17.75	0.00	76.00
Non-Billable Hours (Southwind's time)										
Rig Up / Tear Down	12.25									12.25
Wait on Cement (NB)								5.50		5.50
Drill Rat Hole (<.75 hrs)	0.75									0.75
Drill Plug		0.50								0.50
Circulate / Trip (Surface)		1.00								1.00
Rig Repair	0.50			0.25						0.75
Connections	3.25	1.75	2.50	2.25	1.25		0.25			11.25
Jet/Displace		0.75	1.00	1.00						2.75
Surveys						0.25		0.25		0.50
Rig Check	0.25	0.50	0.75	0.75	0.75					3.00
Lost Circulation (< 2 hrs)										0.00
Lay Down Kelly / MH & RH								0.50		0.50
Circulate (NB)										0.00
Non-Billable Hrs.	17.00	4.50	4.25	4.25	2.00	0.25	0.25	6.25	0.00	38.75
Footage Cost	\$ 9,800.00	\$ 10,220.00	\$ 10,500.00	\$ 9,870.00	\$ 5,754.00	\$ 56.00	\$ 1,246.00	\$ -	\$ -	\$ 47,446.00
Daywork Cost	\$ 87.50	\$ 4,200.00	\$ -	\$ 262.50	\$ 1,487.50	\$ 8,137.50	\$ 6,212.50	\$ 6,212.50	\$ -	\$ 26,600.00
Combined Est. Cost*	\$ 9,887.50	\$ 14,420.00	\$ 10,500.00	\$ 10,132.50	\$ 7,241.50	\$ 8,193.50	\$ 7,458.50	\$ 6,212.50	\$ -	\$ 74,046.00

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 3255' - 3296' Recovery: 5' Oil Spotted Mud	DST #2 Info - Footage Interval: 3255' - 3298' Recovery: 15' Mud with Spec of Oil
DST #3 Info - Footage Interval: 3265' - 3300' Recovery: 20' Mud	DST #4 Info - Footage Interval: 3300' - 3305' Recovery: 35' Mud
DST #5 Info - Footage Interval: Recovery:	DST #6 Info - Footage Interval: Recovery:

Anhydrite @ 777' - 793'

Displaced @

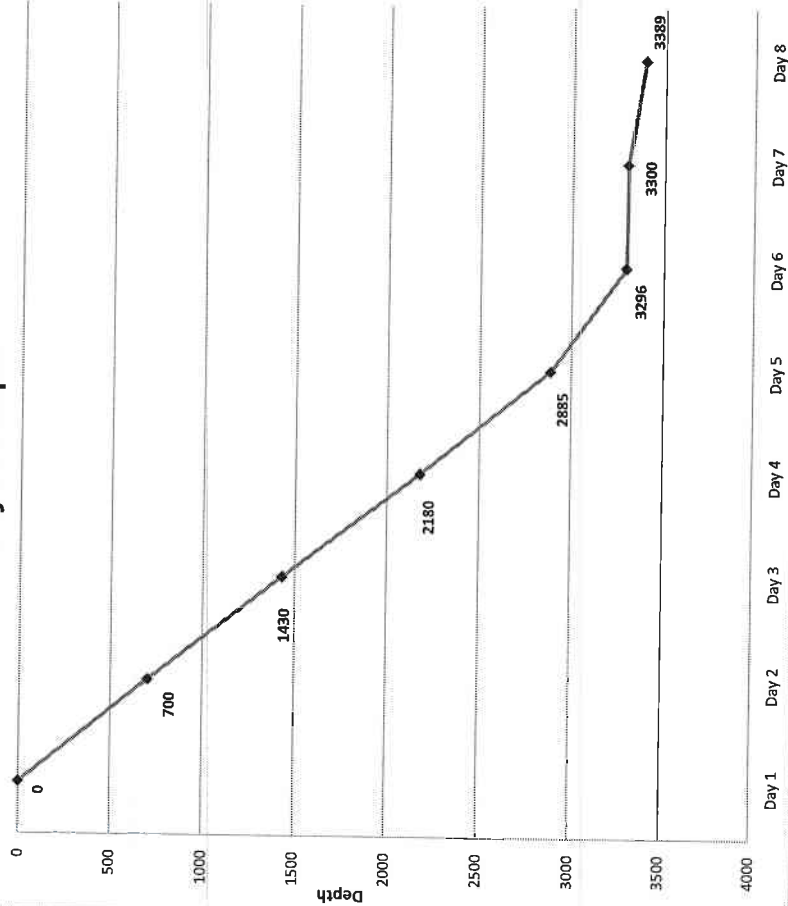


Job Summary Graphical Report

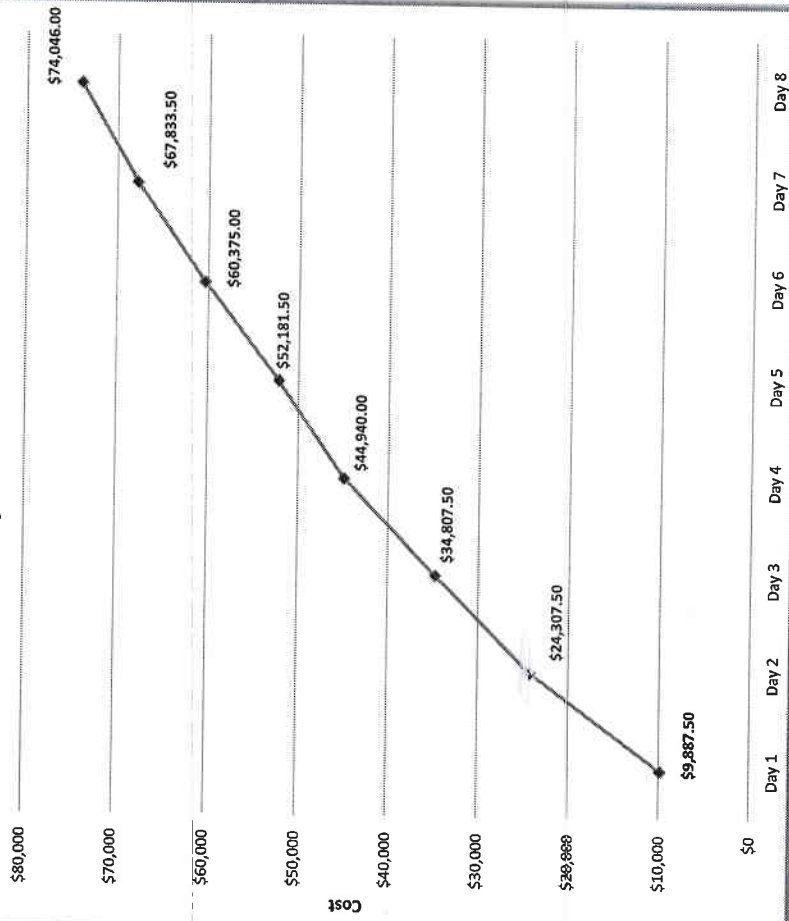
Southwind Rig No. 2

Kaufman "A" #2

Days vs Depth



Days vs Cost



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 891

11-29-14

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-28-14	9	15	12	Russell	Ks		1:00 AM

Lease	Well No.	Owner
Kaufman A	2	25 EIS

Contractor Southwind
Type Job production
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size	T.D.	Charge To
7 7/8"	3390'	H.D. Exploration
Csg.	Depth	Street
5 1/2" New	3387'	
Tbg. Size	Depth	City
		State

Tool
The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 16'
Shoe Joint 16'
Cement Amount Ordered 200 Com 10% Salt 5% Gypsum

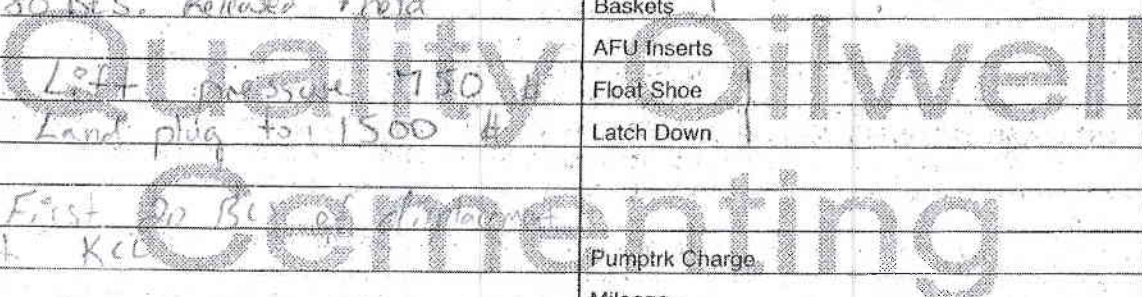
Meas Line	Displace	80 Bcs	500 gal mud Clear 48	20 Bcs KCL
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EQUIPMENT

Pumptrk	No.	Cement Helper	Common
16		Billy	
Bulktrk	No.	Driver	Poz. Mix
1		Ryan	
Bulktrk	No.	Driver	Gel.
pu.		Rick	
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers 1, 3, 5, 7, 9, 11, 13	Kol-Seal
Baskets 2	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Break Circulation pump	Sand
Clear 48	Handling
Mud Seal	Mileage
w/ 155 sv Cement	FLOAT EQUIPMENT
Pump + lines, Released plug + Displaced	Guide Shoe
w/ 80 Bcs. Released hold	Centralizer 7 tubs
	Baskets 1
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage



X Signature	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 8907

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-22-41	9	15	12	Russell	KS		1007m

Location Kirkhill Stone 20 25 Finto

Lease <u>Kaufman A</u>	Well No. <u>2</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Sutherland</u>	<u>2</u>		
Type Job <u>Surface</u>			
Hole Size <u>12 1/4</u>	T.D. <u>753</u>	Charge To <u>HT</u>	
Csg. <u>8 5/8</u>	Depth <u>753</u>	Street	
Tbg. Size	Depth	City	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. <u>40'</u>	Shoe Joint <u>40'</u>	Cement Amount Ordered <u>325% 5% 3% 2%</u>	
Meas Line	Displace <u>4 1/2 1/2 1/2</u>		

EQUIPMENT

Pumptrk <u>20</u>	No.	Cementor	Helper	Common
		<u>B.H.</u>		
Bulktrk <u>13</u>	No.	Driver		Poz. Mix
		<u>Nick</u>		
Bulktrk <u>PA</u>	No.	Driver		Gel.
		<u>1/10</u>		
		Driver		Calcium

JOB SERVICES & REMARKS

Remarks: <u>Cement did circulate</u>	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117, or CD110 CAF 38
	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<u>Bubble Hole Rubber Plug</u>
	Pumptrk Charge
	Mileage

		Tax
		Discount
X Signature <u>William Sutherland</u>		Total Charge



Mudgrove

Petroleum Geology
212 Main Street, Claflin KS

NOTES

Company: H & D Exploration, LLC

Lease: Kaufman A 2

Field: Wildcat

Location: SE-SE-NW

Sec: 9 Twsp: 15S Rge: 12W

County: Russell State: Kansas

KB: 1851' GL: 1842'

API #: 15-167-24012-00-00

Contractor: Southwind Drilling Inc. (Rig #2)

Spud: 11/21/2014 Comp: 11/28/2014

RTD: 3389' LTD: 3385'

Mud Up: 2200' Type Mud: Chemical

Samples Saved From: 2300' to RTD

Drilling Time Kept From: 2300' to RTD

Samples Examined From: 2300' to RTD

Geological Supervision from: 2300' to RTD

Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 753'

Electronic Surveys: Logged by Pioneer Energy Services, DIL, MEL, BHCS, CNL/CDL





H&D Exploration, LLC

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL				
	H&D Exploration- Kaufman A2				H&D Exploration- #1 Kaufman A				Vonfeldt Drilling- #9 Kaufman				
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
	SE-SE-NW 9-15-12W oil 1851 KB				W2-SW-SE-NW 9-15S-12w oil 1861 KB				NE-NE-SE 24-17S-12W 1854 KB				
					Structural Relationship				Structural Relationship				
Grand Haven	2330	-479	2324	-473						2337	-483	4	10
Topeka	2631	-780	2628	-777	2643	-782	2	5		2680	-826	46	49
Heebner	2912	-1061	2903	-1052	2912	-1051	-10	-1		2917	-1063	2	11
Toronto	2923	-1072	2916	-1065	2927	-1066	-6	1		2935	-1081	9	16
Douglas	2942	-1091	2933	-1082	2943	-1082	-9	0		2950	-1096	5	14
Brown Lime	2998	-1147	2992	-1141	2997	-1136	-11	-5					
Lansing	3012	-1161	3003	-1152	3011	-1150	-11	-2		3019	-1165	4	13
BKC	3264	-1413	3258	-1407	3272	-1411	-2	4		3279	-1425	12	18
Gorham Sd.	3288	-1437	3284	-1433	3298	-1437	0	4		3296	-1442	5	9
Regan Sd.	3311	-1460	3311	-1460									
RTD	3389	-1538	3389	-1538	3306	-1445	-93	-93		3321	-1467	-71	-71

Image Header 03

Image Header 04

ROCK TYPES

 Lmst fw<7 shale, gry	 Carbon Sh shale, red	 Ss	 Meta
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OTHER SYMBOLS

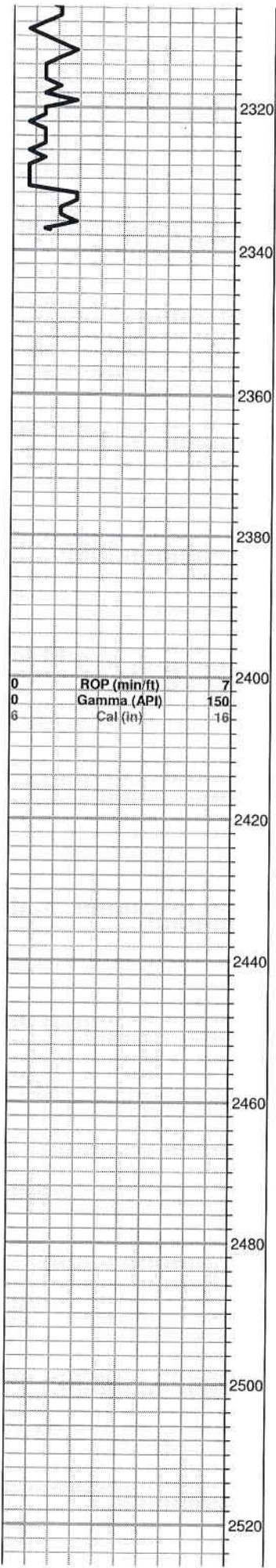
Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
○ Poor Show	■ Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

Printed by GEOstrip VC Striplog version 4.0.8.7 (www.grsi.ca)

Curve Track #1		Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5		
ROP (min/ft)	Gamma (API)						Cal (in)	Total Gas (units)	C1 (units)
1:240 Imperial							1:240 Imperial		
0	ROP (min/ft)	7					0	Total Gas (units)	100
0	Gamma (API)	150					0	C1 (units)	100
6	Cal (in)	16					0	C2 (units)	100
							0	C3 (units)	100
							0	C4 (units)	100
		2220							
		2240							
		2260							
		2280							
		2300							

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LS, tan, foss, chalky, poor visible porosity, no shows

Grand Haven 2330.0 (-479.0)

LS, tan, cream, FXL, dense, chalky in parts, no shows,

Sd. gry, f. grain, sub rounded, well sorted, no shows

Dover 2352.0 (0.0)

LS, tan, FXL, chalky, poor visible porosity

Sd. V. F. grain, well sorted, sub rounded, mica, no shows

Sd. A/A, well sorted, mica, no shows

Tarkio Lime 2402.0 (-551.0)

LS, tan, brown, few foss, poor visible porosity, no shows

LS, tan, few foss, chalky, no shows

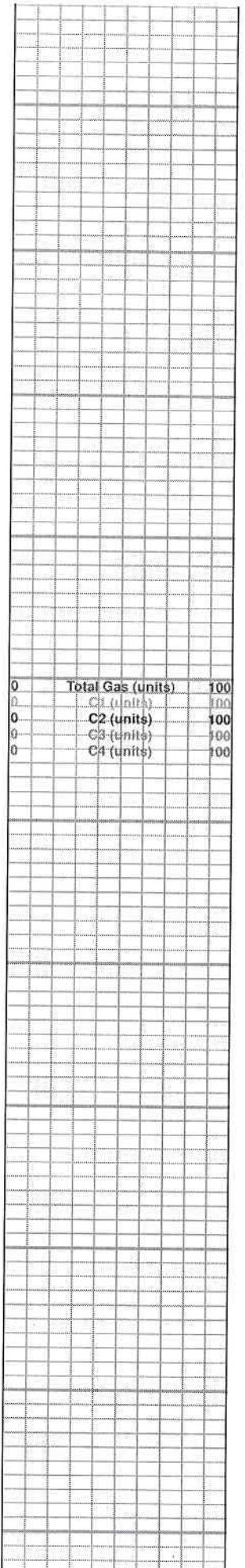
Sd. gry, V. F. grain, mica, well sorted, no shows

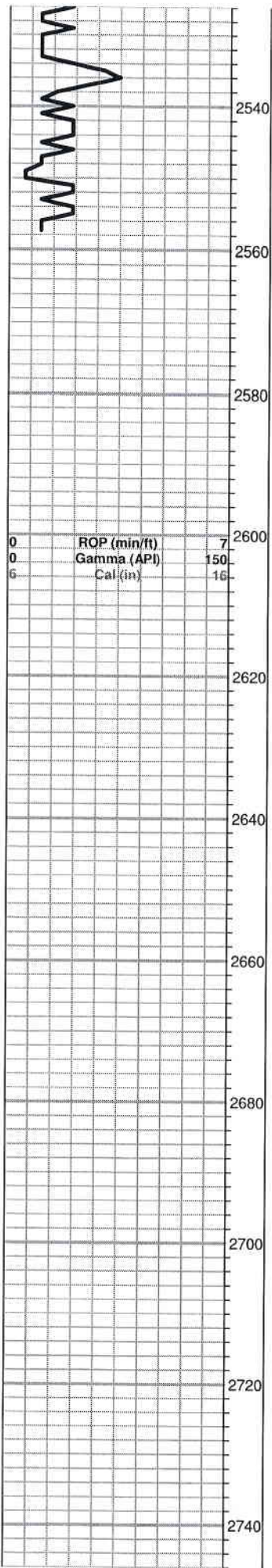
LS, tan, gry, FXL, dense, poor visible porosity, no shows

LS, tan, gry, FXL, dense, poor visible porosity

Sh, gry silty no shows

LS, gry, tan, few foss, poor visible porosity, chalky, no shows





LS, tan, brown, gry, FXL, chalky in parts, no shows

LS, tan, brown, chalky, poor visible porosity, no shows

Sh, gry, silty soft

LS, tan, chalky, poor visible porosity no shows

Sh. gry, silty soft

Topeka 2631.0 (-780.0)

LS, tan, brown, FXL, dense, poor visible porosity, no shows

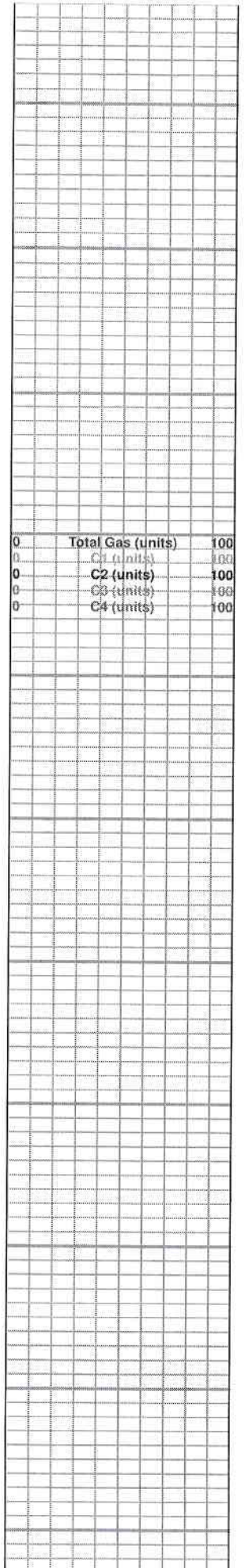
LS, tan, cream, chalky, poor visible porosity, no shows

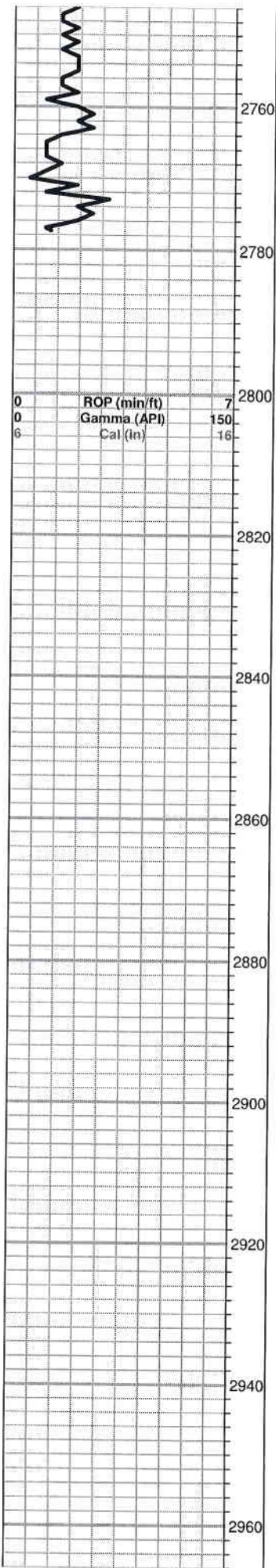
Sh, gry, silty, soft

LS, gry, tan, FXL, cherty, poor visible porosity, no shows

LS, cream, tan, chalky, poor visible porosity, few foss, no shows

LS, tan, cream, FXL, dense, poor visible porosity, no shows





Black carb Sh

LS, tan, brown, chalky, few foss, no shows

LS, tan, brown, FXL, dense, poor visible porosity, no shows

LS, tan, brown, few foss, poor visible porosity, chalky in parts, no shows, no odor

LS, tan, brown, foss, chalky, no shows, no odor

LS, cream, tan, FXL, poor visible porosity, no shows, no odor

Heebner 2906.0 (-1055.0)

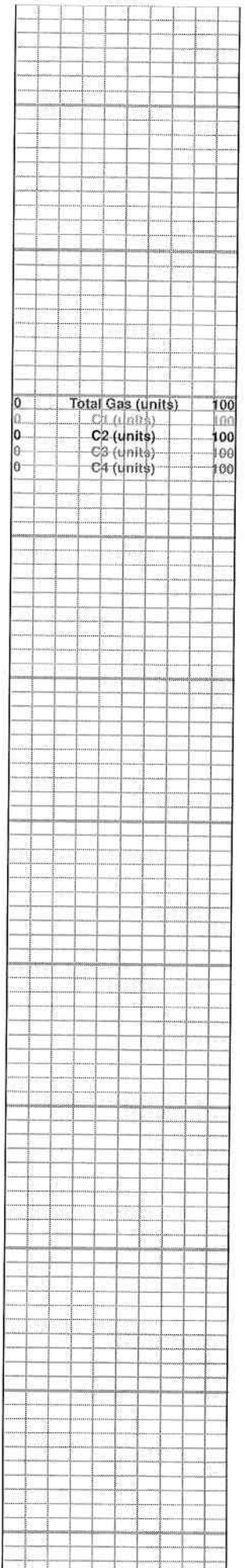
Black carb Sh.

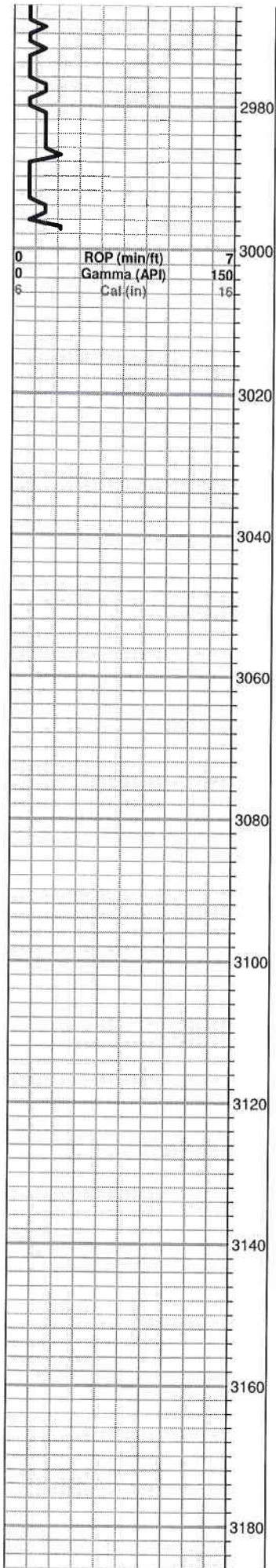
Toronto 2924.0 (-1072.0)

LS, tan, gry, FXL, few dolomitic, poor visible porosity, no shows, no odor

Douglas 2941.0 (-1091.0)

Sd. V.F.grain, sub rounded, friable, ??? stain, NSFO, ft. odor





Sh, maroon, gry

Sd. gry, greenish, V. F. grain, sub rounded, mica, friable in parts, no shows

Brown Lime 2998.0 (-1147.0)

LS, tan, brown,FXL, dense

Lansing 3012.0 (-1161.0)

LS, gry, white, FXL, foss, chalky, trc. brown, gry, stain,k trc. SFO, faint odor

LS, gry, cream, sub oom, chalky, poorly developed porosity, trc. stain, NSFO, no odor

LS, tan, brown, FXL, dense, poor visible porosity, no shows

LS, tan, brown, cream, oom, fair vuggy oom porosity, chalky, no shows, no odor

LS, cream, tan, ool, good oom vuggy porosity, Trc. SFO, odor???

LS, cream, tan, ool, poor oom vuggy porosity, chalky, no shows, no odor

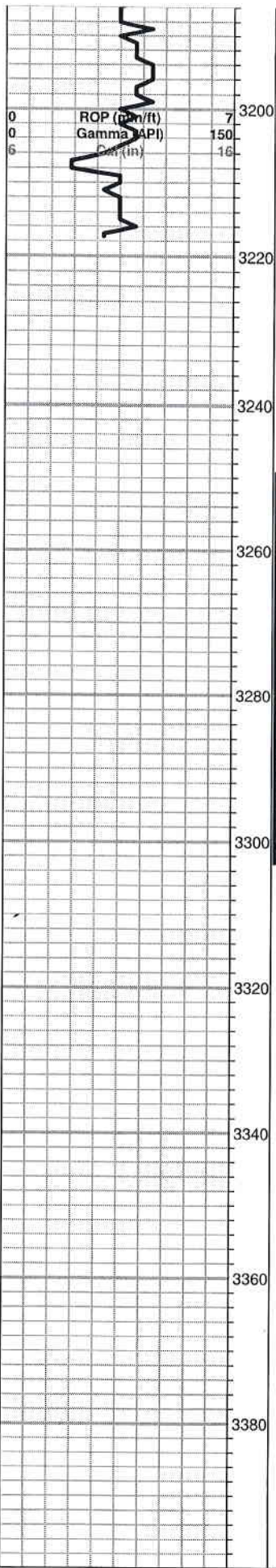
LS, tan, brown, FXL, dense, poor visible porosity, no shows, no odor

LS, cream, white, FXL, few foss, chalky, no shows

LS, tan, brown, cream, chalky, few foss, no shows

LS, cream, tan, foss, few ool, poor visible porosity, no shows, no odor

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



LS, tan, brown, FXL, dense, cherty poor visible porosity, no shows

Sh, black, gry, mica,

LS, white, FXL, few ool, poor scattered porosity, chalky, Lt. SFO, faint odor when broken

Sh, black carb

LS, white, gry, tan, FXL, dense, poor visible porosity, no shows, no odor

BKC 3264.0 (-1413.0)

Sh, gry, greenish, maroon

LS, cream, tan, FXL, few foss, poor visible porosity, no shows, no odor

Gorham Sand 3288.0 (-1438.0)

Sd, Qtz, clear, sub rounded, friable, SFO, fair odor

Qtz, dense, heavily fractured, solid, dark brown stains, good odor

Regan Sand 3311.0 (-1461.0)

Sd. Qtz, white, rose, F. grain, well sorted, clean, Faint odor, few cherts, white, smokey, ool,

Sd. white, rose, F-med grain, dense, sub rounded, few cherts, A/A,

Sd. white, cream, rose, well sorted, dense, no shows, no odor

Sd, Qtz, white, rose, dense, sub rounded, well sorted, no shows, no odor

Granite 3373.0 (-1523.0)

Gran, clear, dense, biotite, K feldspar, no shows no odor

RTD 3389.0 (0.0)

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100

DST #1 3255-3296

20-30

Blow: Dead

Recovery 4' OSM

Pressures:

ISIP 262 psi

IFP 11-13 psi

HSB 1618-1610 psi

DST #2 3255-3298

30-30

Blow: Dead

Recovery: 10' OSM

Pressures:

ISIP 994 psi

IFP 12-22 psi

HSB 1622-1600

psi

DST #3 3255-

3300

30-30

Blow: Dead

Recovery 20' OSM

Pressures:

ISIP 998 psi

IFP 13-21 psi

HSB 1622-1600

DST #4 3255-3305

30-30

Blow: Dead

Recovery:

20' Drilling Mud

ISIP 972 psi

IFP 16-28 psi

HSB 1616-1608