OPERATOR

Company: CARRIE EXPLORATION AND DEVELOPMENT

Address: 210 W 22ND STREET HAYS, KANSAS 67601

Contact Geologist: RON HEROLD Contact Phone Nbr: 913-961-2760

Well Name: SARA C-1

Location: SW SW SW Sec 8-22s-10w API: 15-155-21,618-00-00

10:59 AM

Time:

Pool: WILDCAT Field: UNNAMED State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: SARA C-1

Surface Location: SW SW SW Sec 8-22s-10w

Bottom Location:

API: 15-155-21,618-00-00

License Number: 6768

Spud Date: 1/2/2013 Time: 11:00 PM

Region: RENO COUNTY moleted: 1/9/2013

Drilling Completed: 1/9/2013 Surface Coordinates: 330' FSL & 330' FWL

Bottom Hole Coordinates:

Ground Elevation: 1764.00ft
K.B. Elevation: 1772.00ft

Logged Interval: 2600.00ft To: 3650.00ft

Total Depth: 3650.00ft Formation: VIOLA

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: Latitude:

N/S Co-ord: 330' FSL E/W Co-ord: 330' FWL

LOGGED BY



Company: SOLUTIONS CONSULTING

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: FOSSIL DRILLING INC.

Rig #: 2

Rig Type: MUD ROTARY

 Spud Date:
 1/2/2013
 Time:
 11:00 PM

 TD Date:
 1/9/2013
 Time:
 10:59 AM

 Rig Release:
 1/10/2013
 Time:
 6:30 AM

ELEVATIONS

K.B. Elevation: 1772.00ft Ground Elevation: 1764.00ft

K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF THREE DRILL STEM

TESTS OVER PRIMARY ZONES OF INTEREST.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

DRILL STEM TESTING BY SUPERIOR TESTERS ENTERPRISES, LLC: THREE (3) CONVENTIONAL TESTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

SARA C # 1 330' FSL & 330' FWL, SW/4 Sec 8-22s-10w 1764' GL 1772' KB

<u>FORMATION</u>	SAMPLE TOPS	LOG TOPS
Heebner Shale	2986-1214	2985-1213
Toronto	3008-1236	3007-1235
Douglas Shale	3026-1254	3024-1252
Brown Lime	3123-1351	3121-1349
LKC	3149-1377	3150-1378
ВКС		3437-1665
Viola		3497-1725
Simpson Shale		3525-1753
Simpson Dolomite		3543-1771
Simpson Sand		3555-1783
Arbuckle		3587-1815
RTD	3650-1878	
LTD		3650-1878

SUMMARY OF DAILY ACTIVITY

1-02-13	Spud, set 8 5/8" surface casing to 284' w/ 225 sxs Common, 2%gel, 3%CC, plug down 8:30PM
1-03-13	291', replace drill line, drill plug, drilling
1-04-13	1504', drilling
1-05-13	2380', drilling
1-06-12	3125', drilling, short trip 20STDs, DST # 1 3164'-3240' "C-F" LKC
1-07-13	3240', drilling
1-08-13	3530', DST # 2 3490'-3530' Viola, DST # 3 3540'-3572', Simpson
1-09-13	3578', RTD 3650'@ 10:59AM, CCH, Logs, P&A
1-10-13	3650', finish laying down DP, last plug down 6:30AM

DST # 1 3164' TO 3240' "C-F" LKC



DRILL STEM TEST REPORT

Carrie Exploration

8-22s-10-w Reno

210 West 22nd Hays Kansas

Sara C-1

67601

Job Ticket: 17723

DST#: 1

ATTN: Herb Deines

Test Start: 2013.01.06 @ 08:00:00

GENERAL INFORMATION:

Formation: Lansing C-F Deviated:

Whipstock:

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 10:00:00

Dustin ⊟lis Tester:

Time Test Ended: 15:18:00

Unit No: 3315-Great Bend-75

3164.00 ft (KB) To 3240.00 ft (KB) (TVD) Total Depth: 3240.00 ft (KB) (TVD)

Reference Bevations: 1772.00 ft (KB)

7.88 inches Hole Condition: Fair

1764.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8400 Press@RunDepth:

Hole Diameter:

Outside

137.09 psia @ 3237.07 ft (KB)

Capacity: Last Calib.: 5000.00 psia

Gas Rate (Mcf/d)

Start Date:

2013.01.06

End Date:

ft (KB)

2013.01.06 Time On Btm:

2013.01.07 2013.01.06 @ 09:59:30

Start Time:

08:00:00

End Time:

15:18:00 Time Off Btm:

(Min.)

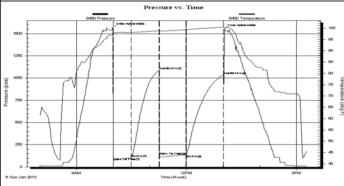
2013.01.06 @ 13:02:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 4 minutes.

1st Shut in 45 minutes No blow back

2nd Open 45 minutes Fair building blow blew bottom bucket 6 minutes.

2nd Shut in 60 minutes Yes blow back



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PRESSURE SUMMARY Temp Annotation (psia) (deg F)

О	1565.28	97.43	Initial Hydro-stati
1	69.14	97.57	Open To Flow (1)
30	104.33	98.08	Shut-In(1)
76	1089.81	98.85	End Shut-In(1)
77	131.89	98.57	Open To Flow (2)
120	137.09	99.32	Shut-In(2)
182	1037.88	100.40	End Shut-In(2)
183	1550.57	100.29	Final Hydro-station

Gas Rates		
Choke (inches)	Pressure (psia)	

•	 _	_	•	٠.	,	
_	 		_			

Length (ft)	Description	Volume (bbl)
15.00	Oil cut mud Oil 10% Mud 90%	0.07
61.00	Oil pluse gas cut muddy w ater	0.30
0.00	Gas 65% Oil 15% Mud 10% Water 10%	0.00
61.00	Oil spotted muddy water	0.41
0.00	Mud 20% Water 80%	0.00
0.00	Chlorides 36,000 .3ohms	0.00

Superior Testers Enterprises LLC Ref. No: 17723 Printed: 2013.01.07 @ 03:38:21

DST # 2 3490' TO 3530' VIOLA



DRILL STEM TEST REPORT

Carrie Exploration

8-22s-10-w Reno

210 West 22nd Hays Kansas

Sara C-1

Job Ticket: 17724 DST#:2 ATTN: Herb Deines Test Start: 2013.01.08 @ 02:55:00

GENERAL INFORMATION:

Formation: Simpson

Deviated: ft (KB)

No Whipstock:

Time Tool Opened: 04:51:30

Time Test Ended: 09:27:30

3490.00 ft (KB) To 3530.00 ft (KB) (TVD) Interval:

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

1764.00 ft (CF) KB to GR/CF: 8.00 ft

Test Type:

Reference Bevations:

Tester:

Unit No:

Conventional Bottom Hole (Initial)

1772.00 ft (KB)

Dustin Elis

3315-Great Bend-75

Serial #: 8405 Inside

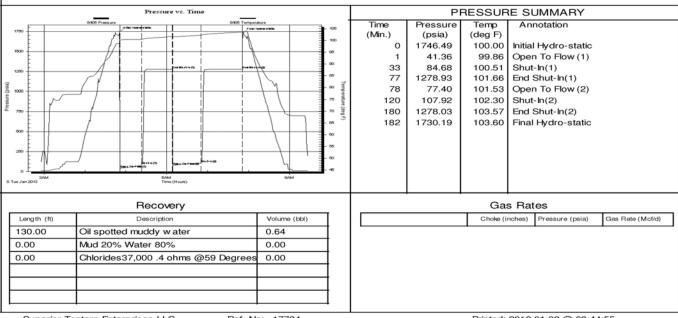
5000.00 psia Press@RunDepth: 107.92 psia @ 3526.00 ft (KB) Capacity: 2013.01.08 Start Date: 2013.01.08 End Date: Last Calib .: 2013.01.08 02:55:00 Time On Btm: 2013.01.08 @ 04:51:00 Start Time: End Time: 09:27:30 Time Off Btm: 2013.01.08 @ 07:52:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew 4.5 inches .

1st Shut in 45 minutes No blow back.

2nd Open 45 minutes Fair building blow blew 5 inches.

2nd Shut in 60 minutes No blow back.



Superior Testers Enterprises LLC Ref. No: 17724 Printed: 2013.01.08 @ 09:44:55

DST # 3 3540' TO 3572' SIMPSON SAND



DRILL STEM TEST REPORT

Carrie Exploration

8-22s-10-w Reno

210 West 22nd Hays Kansas

Sara C-1

Time Off Btm:

67601

Job Ticket: 17725

ATTN: Herb Deines

Test Start: 2013.01.08 @ 06:35:00

GENERAL INFORMATION:

Formation: Lower Simpson sand

Whipstock: Deviated: ft (KB) Conventional Bottom Hole (Initial) No Test Type:

Time Tool Opened: 08:12:00 Time Test Ended: 13:01:00

3540.00 ft (KB) To 3572.00 ft (KB) (TVD) Interval:

3572.00 ft (KB) (TVD) Total Depth:

Dustin ⊟lis Tester:

Unit No: 3315-Great Bend-75

Reference Bevations: 1772.00 ft (KB) 1764.00 ft (CF)

8.00 ft

2013.01.08 @ 10:59:00

DST#: 3

KB to GR/CF: Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 8405 Inside

Press@RunDepth: 40.42 psia @ 3568.00 ft (KB) 5000.00 psia Capacity: Start Date: 2013.01.08 End Date: 2013.01.08 Last Calib.: 2013.01.09 2013.01.08 @ 08:11:30 Start Time: 06:35:00 End Time: 13:01:00 Time On Btm:

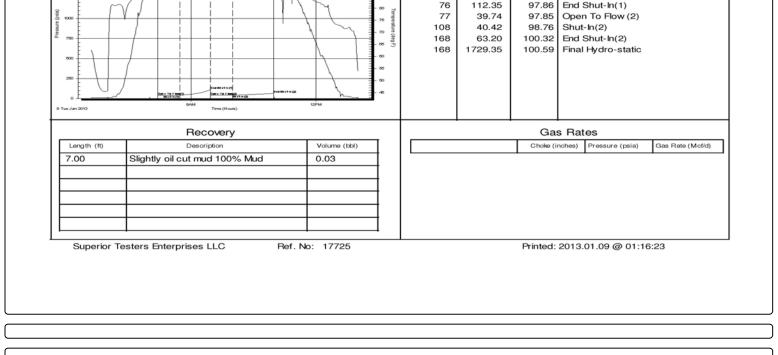
TEST COMMENT: 1st Open 30 minutes Weak but steady blow 1/2 inch.

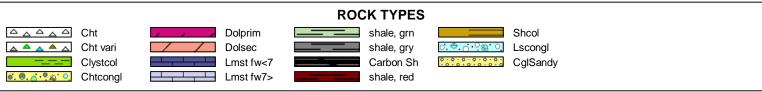
1st Shut in 45 minutes No blow back

2nd Open 30 minutes Dead Flushed tool 20 minutes in no help.

2nd Shut in 60 minutes No blow back

Pressure vs. Time					PRESSURE SUMMARY			
9-105 Pressure 9-105 Temperature					Time	Pressure	Temp	Annotation
1750	- 000			100	(Min.)	(psia)	(deg F)	
1500		W	M\	95	0	1745.60	96.51	Initial Hydro-static
1500	<i>y</i>	1 1 11		90	1	39.37	96.36	Open To Flow (1)
1250		<u> </u>		85	32	39.16	96.81	Shut-In(1)





ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite

DST

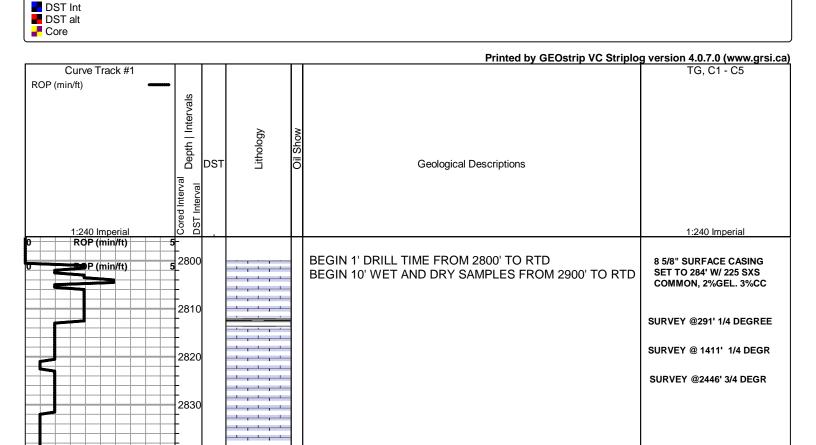
- . Sandy
- △ Chert White

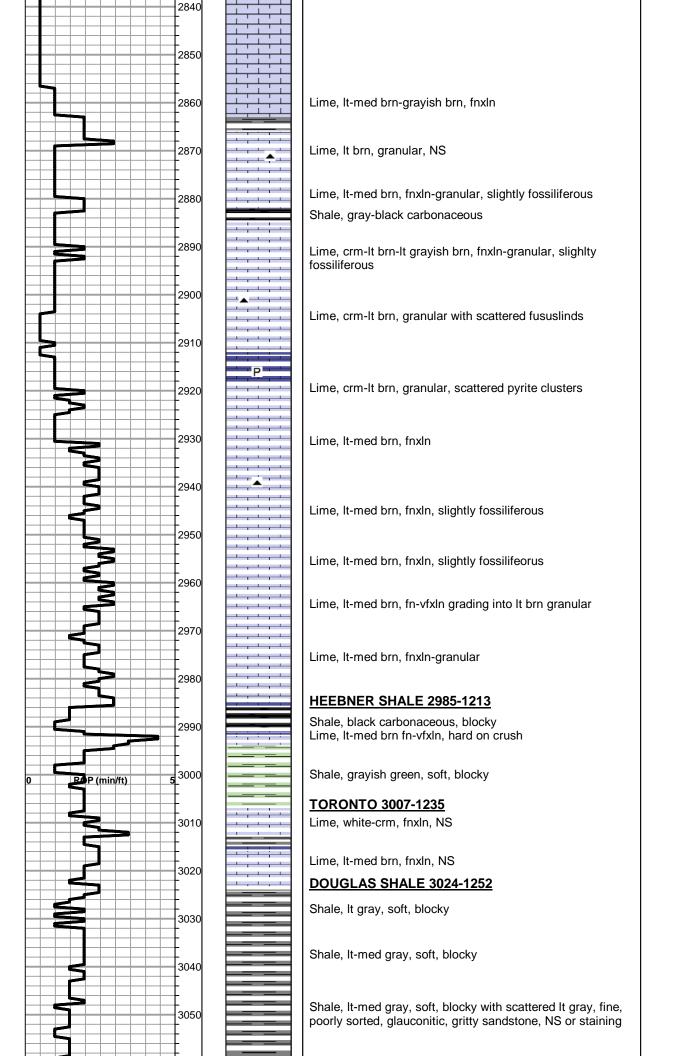
FOSSIL

F Fossils < 20%

- Oolite
- Oomoldic
- Euhed rhombs of dol or ...

OTHER SYMBOLS





Shale, It-med gray, soft, blocky with mixed sandstone clusters as above Shale, It gray, soft, blocky, mixed acutered fine, green, glaconitic sandstone, NS Shale, It gray, soft, with sticky, angillaceous in part Shale, It gray, soft, with sticky clumps in part BROWN LIME 312-1349 Lime, med drank firm, froin Shale, It gray, soft, sticky clumps in part LKC 3150-1378 Lime, It-med brin, froin, fossiliferous in part Shale, It gray, soft, sticky clumps in part LKC 3150-1378 Lime, It-med brin, froin, fossiliferous in part Shale, It gray, pyrtic clusters Lime, It-med brin, froin, fossiliferous, NS Lime, med brin-grayish brin, froin 100 100 100 100 100 100 100 1		3060			
clusters as above Shale, It gray, soft, blocky, micaceous with scattered fine, green, glaconitic sandstone, NS Shale, It gray, soft with sticky, argillaceous in part Shale, It gray, soft with sticky clumps in part BROWN LIME 3121-1349 Lime, med-dark bun, findin Shale, It gray, soft, sticky clumps in part LKC 3150-1378 Unio, it med bun, findin, fossilliferous in part Shale, It gray, soft, sticky clumps in part LKC 3150-1378 Lime, it med bun, findin, fossilliferous in part Shale, It gray, blocky, pyritic clusters Lime, it med bun, findin, fossilliferous, NS Lime, med bun-graylsh bun, findin, well camerated fossiliferous, NS Lime, med bun-graylsh bun, findin, well camerated fossiliferous, NS Lime, med bun-graylsh bun, findin, well camerated fossiliferous, NS Lime, med bun-graylsh bun, findin, well camerated fossiliferous, NS Lime, med bun-graylsh bun, findin, sightly fossiliferous Shale, It gray, blocky, pyritic clusters Lime, med bun-graylsh bun, findin, fine gray speckling in part Lime, med bun-graylsh bun, findin, fine gray speckling in part Lime, med bun-graylsh bun, findin, fine gray speckling in part Lime, graylsh bun, findin-granular with mixed collites and fossil fragments, WidSPO on break, V L todor CFS 8 2219 Lime, It-med bun, fin-vixin, hard on crush, thin fusulinid bods Lime, It-med bun, fin-vixin, hard on crush, thin fusulinid bods Lime, It-med bun, fin-vixin, hard on crush, thin fusulinid bods	5	-			
Shale, it gray, soft, blocky, micaceous with scattered fine, green, glaconitic sandstone, NS Shale, it gray, soft, with sticky, argillaceous in part Shale, it gray, soft with sticky clumps in part BROWN LIME 312-1349 Lime, med-dark bm, fman Shale, it gray, blocky Shale, it gray, soft, sticky clumps in part LKC 3150-1378 Lime, It-med bm, fman, fossiliferous in part Shale, it gray, blocky, pyritic clusters Lime, med bm-grayish bm, fman, ns Lime, med bm-grayish bm, fman, ns Shale, it gray, blocky, pyritic clusters Lime, med bm-grayish bm, fman, well cemented fossiliferous, NS Lime, med bm-grayish bm, fman, well cemented fossiliferous, NS Lime, med bm-grayish bm, fman, well cemented fossiliferous on the part is exattered staining in intercollic processity with scattered, fine rugs with fine gryst agrowth in pores. Lime, med bm-grayish bm, fman, sightly fossiliferous Shale, dark gray, fossil fragments in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, med bm-grayish bm, fman, fine gray specking in part Lime, fma		-		Shale, It-med gray, soft, blocky with mixed sandstone	
Shale, it gray, soft, tibocky, micaceous with scattered fine, green, glaconitic sandstone, NS Shale, it gray, soft with sticky dumps in part Shale, it gray, soft with sticky dumps in part BROWN LIME 3121-1349 Lime, med-dark brn, findn Shale, it gray, soft, sticky dumps in part Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, pyritic clusters Lime, it gray, pyritic clusters Lime, med brn-gray/sh brn, findn, fossiliferous. NS Lime, med brn-gray/sh brn, findn, fine sugar with fine crystal growth in pores. Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, med brn-gray/sh brn, findn, vugl cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with progray with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, gray, soft, sticky dumps in part Lime, gray blocky CFS @ 3310 CFS @ 3310 CFS @ 3320 CFS @ 3320 CFS @ 3320 Lime, Il-med brn, fin-vlxin, hard on crush, thin fusulinid beds	5	3070		clusters as above	
Shale, it gray, soft, tibocky, micaceous with scattered fine, green, glaconitic sandstone, NS Shale, it gray, soft with sticky dumps in part Shale, it gray, soft with sticky dumps in part BROWN LIME 3121-1349 Lime, med-dark brn, findn Shale, it gray, soft, sticky dumps in part Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, pyritic clusters Lime, it gray, pyritic clusters Lime, med brn-gray/sh brn, findn, fossiliferous. NS Lime, med brn-gray/sh brn, findn, fine sugar with fine crystal growth in pores. Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, med brn-gray/sh brn, findn, vugl cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with progray with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, gray, soft, sticky dumps in part Lime, gray blocky CFS @ 3310 CFS @ 3310 CFS @ 3320 CFS @ 3320 CFS @ 3320 Lime, Il-med brn, fin-vlxin, hard on crush, thin fusulinid beds					
Shale, it gray, soft, tibocky, micaceous with scattered fine, green, glaconitic sandstone, NS Shale, it gray, soft with sticky dumps in part Shale, it gray, soft with sticky dumps in part BROWN LIME 3121-1349 Lime, med-dark brn, findn Shale, it gray, soft, sticky dumps in part Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, soft, sticky dumps in part LKC 3150-1378 Lime, it gray, pyritic clusters Lime, it gray, pyritic clusters Lime, med brn-gray/sh brn, findn, fossiliferous. NS Lime, med brn-gray/sh brn, findn, fine sugar with fine crystal growth in pores. Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, med brn-gray/sh brn, findn, vugl cemented fossiliferous, NS Lime, med brn-gray/sh brn, findn, well cemented fossiliferous with progray with scattered, fine vugs with fine crystal growth in pores. Shale, dark gray, fossil fragments in part Lime, gray, soft, sticky dumps in part Lime, gray, soft, sticky dumps in part Lime, gray blocky CFS @ 3310 CFS @ 3310 CFS @ 3320 CFS @ 3320 CFS @ 3320 Lime, Il-med brn, fin-vlxin, hard on crush, thin fusulinid beds	5	2000			
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Shale, it gray, soft with sticky, argillaceous in part Shale, it gray, soft with sticky clumps in part BROWN LIME 312-1349 Lime, med drak brn, findin Shale, med gray, blocky Shale, it gray, soft, sticky clumps in part LKC 3150-1378 Lime, it gray, soft, sticky clumps in part LKC 3150-1378 Lime, it gray, soft, sticky clumps in part Shale, it gray, soft, sticky clumps in part Shale, it gray, pyritic clusters Lime, it gray, pyritic clusters Lime, med brn-grayish brn, findin, sosiliferous, NS Lime, med brn-grayish brn, findin Lime, med brn-grayish brn, findin Jacob Composity with scattered, fine vugs with fine crystal growth in pores. Lime, med brn, findin, fine gray speckling in part Lime, med brn-grayish brn, findin, fine gray speckling in part Lime, med brn-grayish brn, findin, fine gray speckling in part Lime, med brn-grayish brn, findin, fine gray speckling in part Lime, med brn-grayish brn, findin, fine gray speckling in part Lime, med brn-grayish brn, findin, fine gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish brn, findin-grayia brn, findin gray speckling in part Lime, grayish br	3	-		green, glaconitic sandstone, NS	
Shale, It gray, soft with sticky clumps in part BROWN LIME 3121-1349 Lime, med-dark bm, findin Shale, It gray, blocky Shale, It gray, blocky Shale, It gray, blocky Shale, It gray, britic clusters Lime, It-med bm, findin, fossiliferous in part Shale, It gray, britic clusters Lime, med bm-grayish bm, findin, NS Shale, It gray, britic clusters Lime, med bm-grayish bm, findin, well cemented fossiliferous, NS Lime, med bm-grayish bm, findin wugs with fine crystal growth in prose. Lime, med bm-grayish bm, findin, fine signiferous Shale, dark gray, fossil fragments in part Lime, med bm-grayish bm, findin, fine gray speckling in part Lime, med bm-grayish bm, findin, fine gray speckling in part Lime, med bm-grayish bm, findin-granular with mixed collites and fossil fragments, VMSFO on break, V Lt odor CFS & 3240 Lime, It-med bm, fin-vfxin, hard on crush, thin fusulinid beds Lime, It-med bm, fin-vfxin, hard on crush, thin fusulinid beds		3090		3 · · · , 3 · · · · · · · · · · · · · · · · · ·	
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