W073129

CONFIDENTIAL

ORIGINAL

Amoco Production Company

Wade Allen 1-36

Sec. 36 T29S R40W

Stanton County, Kansas

15-187-20805

Precision Core Analysis, Inc.

Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 12-Feb-96

Reference Number	Depth (ft)	Permeability Air (md)	Permeability Klink (md)	Helium Porosity (%)	Grain Density (g/cc)	Sample Description
1	5630.1	0.008	0.002	1.9	2.70	
2	5631.5	83.8	72.6	9.9	2.70	
3	5632.5	496.	458.	13.8	2.69	
4	5633.4	147.	130.	11.2	2.69	
5	5634.5	592.	550.	14.4	2.69	
6	5635.5	761.	711.	14.3	2.69	
7	5636.3	715.	668.	14.0	2.70	
8	5636.9	490.	453.	13.1	2.69	
9	5637.5	336.	307.	13.4	2.69	
10	5638.5	560.	520.	14.6	2.69	
11	5639.4	31.0	25.7	10.5	2.69	
12	5640.5	0.762	0.570	7.6	2.70	
13	5641.3	0.200	0.125	5.9	2.70	
14	5641.6	0.098	0.055	5.3	2.69	
15	5641.9	0.010	0.003	3.5	2.70	

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To Charles Bartberger | From Stur Leeds
Co. Amoco | Co. Precision Core
Dept. | Phone # 751-9244
Fax # | Fax #

Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

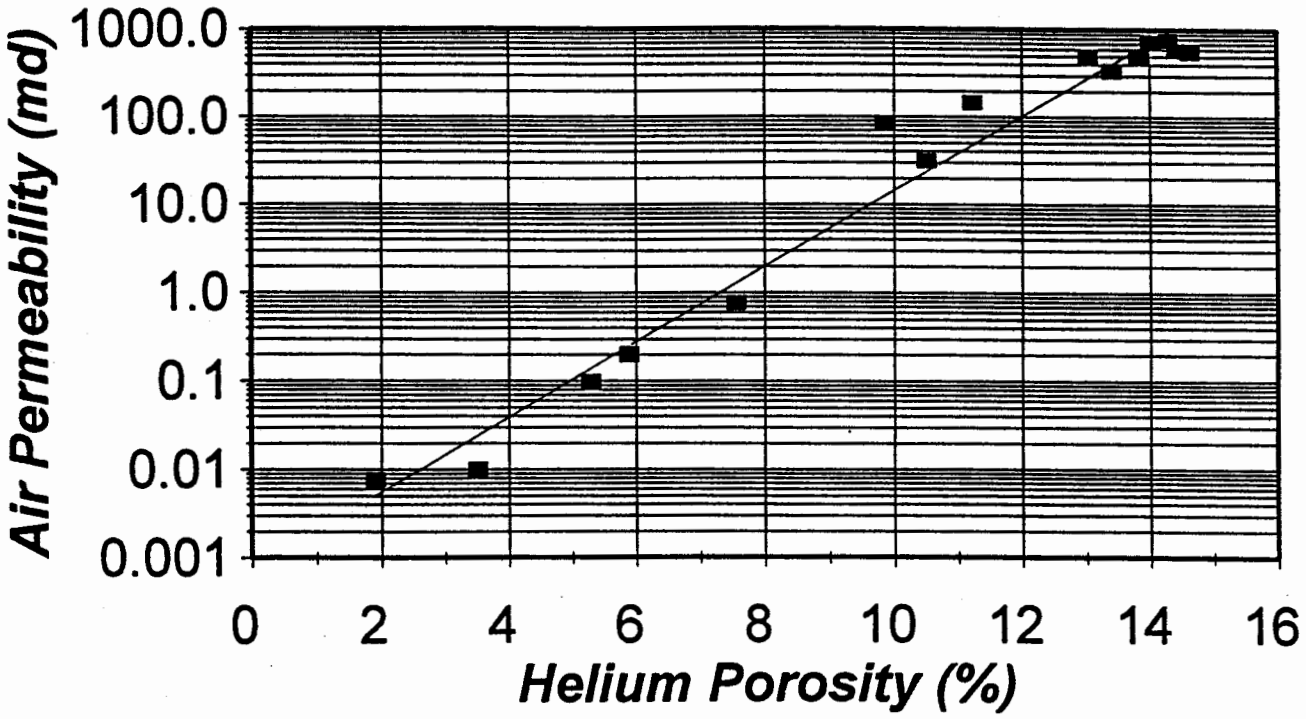
Reference Number	Depth (ft)	Permeability Air (md)	Permeability Klink (md)	Helium Porosity (%)	Grain Density (g/cc)	Sample Description
1	5630.1	0.008	0.002	1.9	2.70	Ls gry dns ool foss
2	5631.5	83.8	72.6	9.9	2.70	Ls gry pp vugs ool foss
3	5632.5	496.	458.	13.8	2.69	Ls gry pp vugs ool foss
4	5633.4	147	130	11.2	2.69	Ls gry pp vugs ool foss
5	5634.5	592.	550.	14.4	2.69	Ls gry pp vugs ool foss
6	5635.5	761	711	14.3	2.69	Ls gry vugs ool foss
7	5636.3	715.	668.	14.0	2.70	Ls gry vugs ool foss
8	5636.9	490	453	13.1	2.69	Ls gry vugs ool foss
9	5637.5	336.	307.	13.4	2.69	Ls gry vugs ool foss
10	5638.5	560	520	14.6	2.69	Ls gry pp vugs ool foss
11	5639.4	31.0	25.7	10.5	2.69	Ls gry pp vugs ool foss
12	5640.5	0.762	0.570	7.6	2.70	Ls gry pp vugs ool pyr
13	5641.3	0.200	0.125	5.9	2.70	Ls gry dns ool
14	5641.6	0.098	0.055	5.3	2.69	Ls gry dns ool
15	5641.9	0.010	0.003	3.5	2.70	Ls gry dns ool

Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

Air Permeability vs Helium Porosity

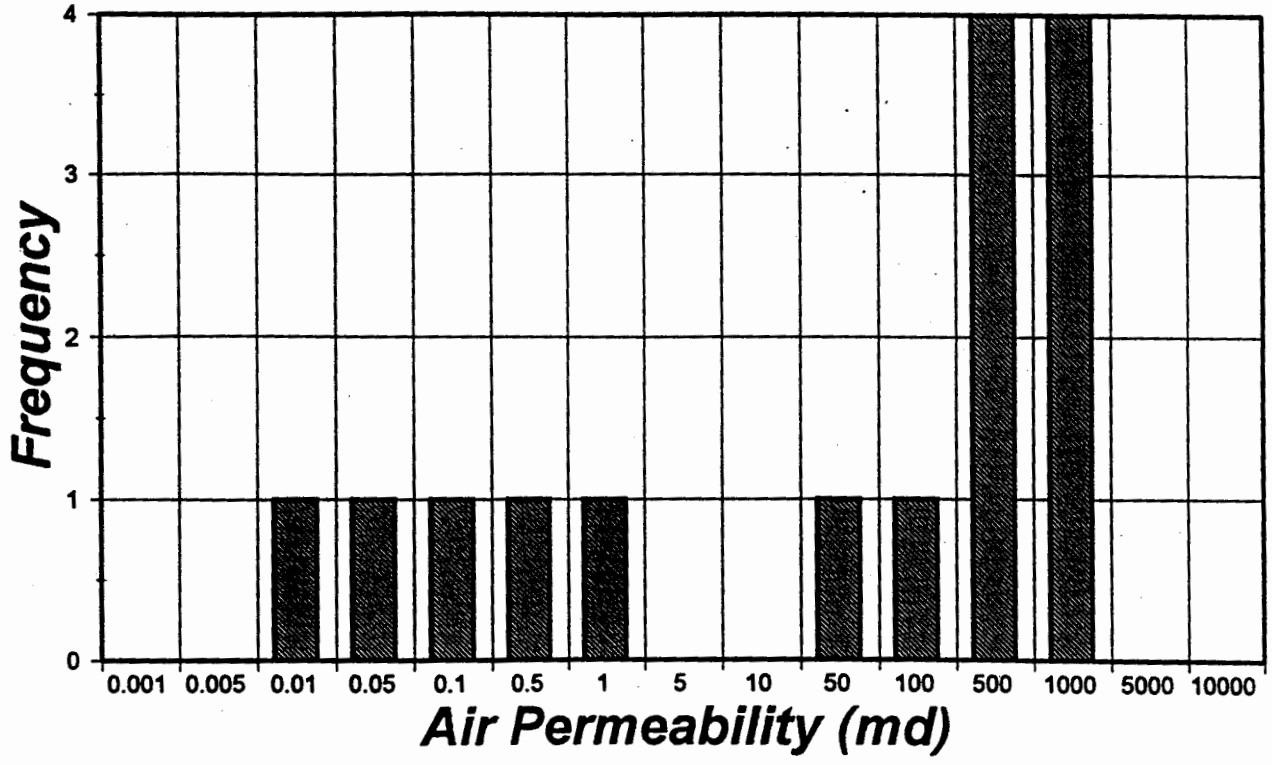


Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

Air Permeability Frequency Distribution

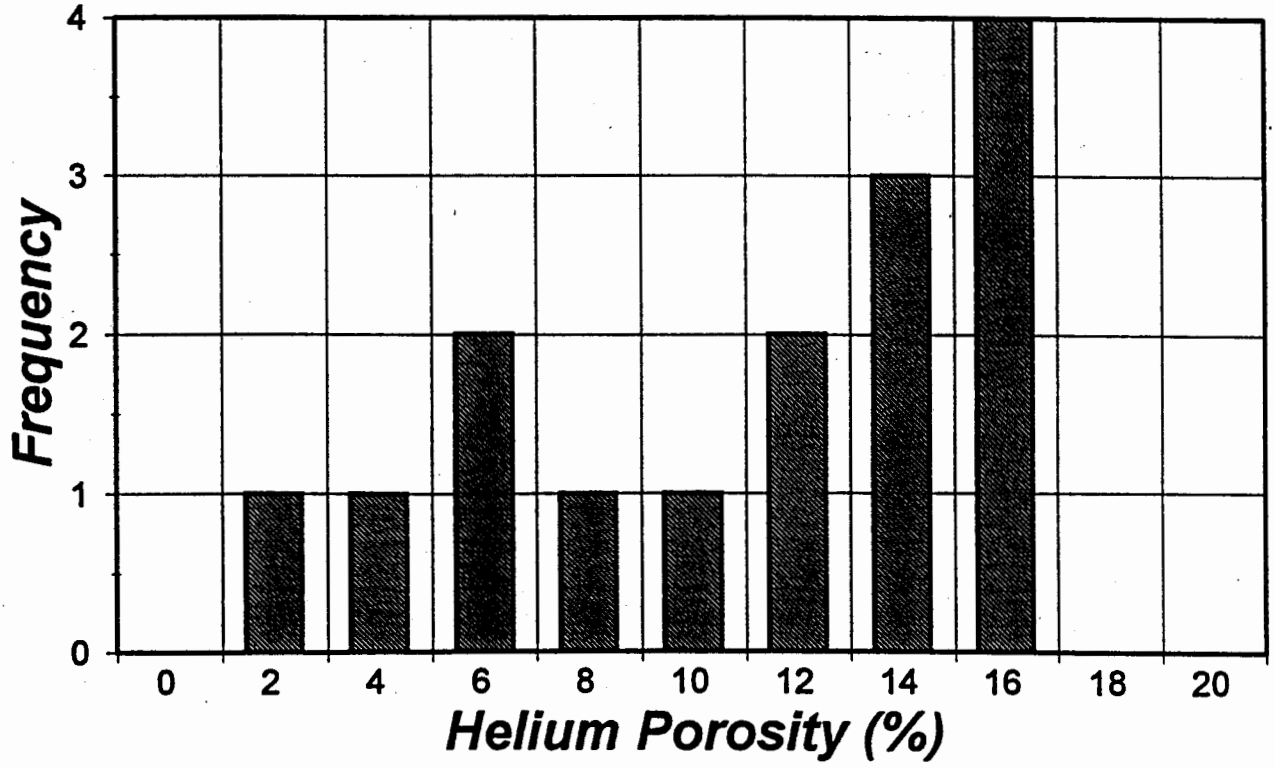


Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

Helium Porosity Frequency Distribution



Precision Core Analysis, Inc.

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Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

	Permeability (md)*			Porosity (%)**		
Zone	Median	Arith. Mean	Geom. Mean	Median	Arith. Mean	Geom. Mean
Zone1	146.559	280.810	17.925	11.237	10.242	8.966

* Values above 0.00 md
** Values above 0.00 %

Precision Core Analysis, Inc.

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Wade Allen 1-36
Sec. 36 T29S R40W
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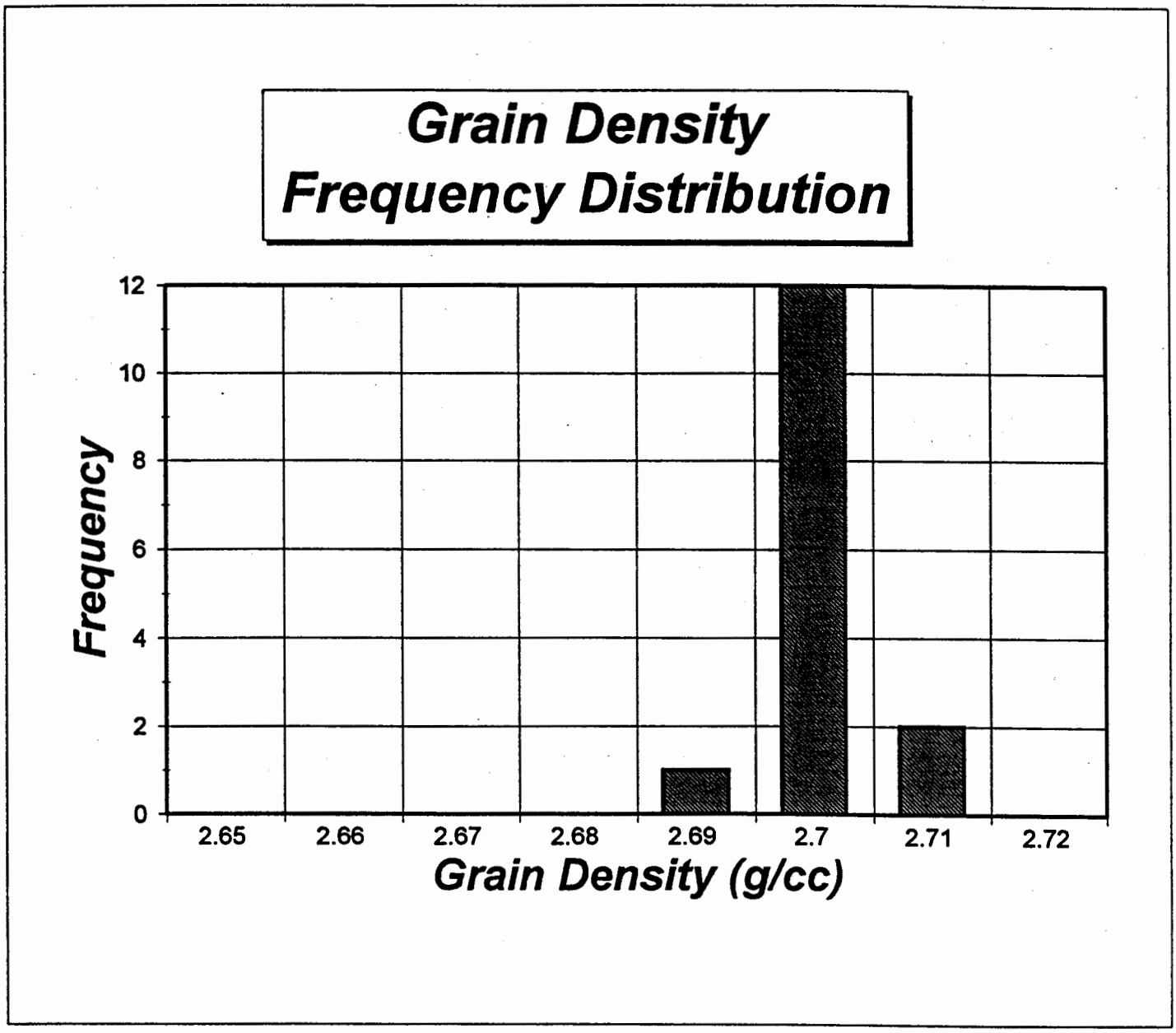
Job: 9608
Date: 13-Feb-96



Precision Core Analysis, Inc.

Amoco Production Company
Wade Allen 1-36
Sec. 36 T29S R40W
Stanton County, Kansas

Job: 9608
Date: 13-Feb-96

Zone1 Air Permeability Regression

Regression Output:

Constant	-3.114955
Std Err of Y Est	0.339714
R Squared	0.969776
No. of Observations	15.000000
Degrees of Freedom	13.000000
X Coefficient(s)	0.426539
Std Err of Coef.	0.020885

Zone1 Klinkenberg Permeability Regression

Regression Output:

Constant	-3.591960
Std Err of Y Est	0.372463
R Squared	0.968821
No. of Observations	15.000000
Degrees of Freedom	13.000000
X Coefficient(s)	0.460217
Std Err of Coef.	0.022898

Operator	Amoco
Well	Wade Allen 1-36
Location	T29S, R40W, S36
County	Stanton
API	15-187-20805
Elevation	3242 GL
Spud Date	7-Dec-95
Cored Interval	5610 ~ 5674
Core Described	
KGS Corebarn Loc.	VB5, TD6, WF3
Core Depth Correct	
Date	10/1/02
Description by	Qi, Lianshuang
Page	1 ~ 4

Sample Plugs	Sample Thin Sect.	1 Rock Type	2 Dunham/Folk	3 Consolid / Frac	4 Argillaceous	5 Grain Size	6 Main Pore Type	7 Subsidiary Pore	8 Cement mineral	9 Bedding	10 Water Depth	11 Fauna	12 Color	Features	Core Depth	Comments	Depo Envir	Strat Interval
		1	6	0		3			4	8	0	0	7	plus 2.0	5610	Mixed siliciclastic and carbonate is well sorted with medium to very fine sandy and pelletal grains. Angles of cross bedding range up to 25o but most commonly are 10 - 20o. Contains medium grained ooids, peloids, skeletal fragments with micrite and calcite spar cement. Siliciclastic can up to 10 to 20 percent. Compational effects, broken ooids and skeletal fragments, oriented grains, calcite filled fractures and minor pressure dissolution of grains are evident. Interbedded with 2 -4 mm dark shale drapes/layers. Presence of climbing translatent stratification and general absence of open-marine fauna. Some fine FeS2 grains. Bimode structure. inverse bedding.		
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0	5612			
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		2			4	4	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0	5614			
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0	5616			
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0	5618			
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0	5620			
		1	6	0		4			4	8	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	7	0	0	7	plus 2.0				
		1	6	0		4			4	8	0	0	7	plus 2.0				
		1	6	0		3			4	7	0	0	7	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		3			4	7	0	0	8	plus 2.0	5622			
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0		5621.8 stylolite, change of facies. Interdune. 5624.12 stylolite contact, lag of oolite skeletal wackestone.		
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	7	0	0	8	plus 2.0				
		1	5	0		2			4	8	0	0	8	plus 2.0				
		1	5	0		2			4	8	0	0	8	plus 2.0	5624			
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0	5626			

Operator Amoco
Well Wade Allen 1-36
Location T29S, R40W, S36
County Stanton
API 15-187-20803
Elevation 3242 GL
Spud Date 7-Dec-95

Cored Interval 5610 - 5674
Core Described
KGS Corebarn Loc. VB5, TD6, WF3
Core Depth Correct
Date 10/1/02
Description by QI, Lianshuang
Page 1 - 4

Sample Plugs	Sample Thin Sect.	1 Rock Type	2 Dunham/Folk	3 Consolid / Frac	4 Argillaceous	5 Grain Size	6 Main Pore Type	7 Subsidiary Pore	8 Cement mineral	9 Bedding	10 Water Depth	11 Fauna	12 Color	Features	Core Depth	Comments	Depo Envir	Strat Interval
		5	2	0	7	0			2	3	5	7	5	plus 2.0	5626			
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0		one or some parts as packstones with abundant bryozoans and crinoids and minor bra		
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0				
		5	2	0	7	0			2	3	5	7	5	plus 2.0	5628			
		5	3	0	7	0			2	3	5	7	5	plus 2.0				
		5	3	0	7	0			2	3	5	7	5	plus 2.0				
		5	3	0	7	0			2	3	5	7	5	plus 2.0				
		5	3	0	7	0			2	3	5	7	5	plus 2.0				
		5	3	0	7	0			2	3	5	7	5	plus 2.0				
		5	3	0	7	5			2	3	5	7	5	plus 2.0				
		5	3	0	3	5			4	9	4	9	8	plus 2.0				
		5	3	0	3	5			4	9	4	9	8	plus 2.0				
		5	4	0	3	5			4	9	4	9	8	plus 2.0				
		5	3	0	3	5			4	9	4	9	8	plus 2.0				
		5	3	0	3	5			4	9	4	9	8	plus 2.0	5630			
		5	3	0	3	5			4	9	4	9	8	plus 2.0				
		5	5	0		6			4	7	3	9	7	plus 2.0				
		5	6	2		6			4	7	3	9	7	plus 2.0				
		5	6	2		6			4	8	3	9	3	plus 2.0				
		5	6	2		6			4	8	3	9	3	plus 2.0				
		5	6	2		6			4	8	3	9	3	plus 2.0				
		5	6	2		6			4	8	3	9	3	plus 2.0				
		5	6	5		5.5			4	8	3	9	3	plus 2.0				
		5	6	5		5			4	8	3	9	3	plus 2.0				
		5	6	5		5			4	8	3	9	3	plus 2.0	5632			
		5	6	5		5			4	8	3	9	3	plus 2.0				
		5	6	5		6			4	7	3	9	3	plus 2.0				
		5	6	5		5.5			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	2		5.5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0	5634			
		5	6	2		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	2		5			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	2		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0	5636			
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	2		5.5			4	7	3	9	3	plus 2.0				
		5	6	2		5			4	7	3	9	3	plus 2.0				
		5	6	5		6			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	2		6			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	2		5			4	7	3	9	3	plus 2.0	5638			
		5	6	5		5.5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5.5			4	7	3	9	3	plus 2.0				
		5	6	5		6			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	5		5			4	7	3	9	3	plus 2.0				
		5	6	2		4.5			4	7	3	9	3	plus 2.0	5640			
		5	6	2		4.5			4	7	3	9	3	plus 2.0				
		5	6	2		4			4	7	3	9	3	plus 2.0				
		5	6	2		4.5			4	7	3	9	3	plus 2.0				
		5	6	2		4.5			4	7	3	9	3	plus 2.0				
		5	6	2		4			4	7	3	9	3	plus 2.0				
		5	6	2		4			4	7	3	9	3	plus 2.0				
		5	6	2		4			4	7	3	9	3	plus 2.0				

5630.56, stylolite, change of facies. Very coarse to medium sand grain size and moderately sorted ooids. Skeletal grains, are commonly large and include echinoderms, bryozoan and brachiopods. Ooids are usually unbroken, but compactional fabrics, pressure-dissolution, broken grains do occur. Stylolitizatoin frequently occurs. Cross stratification/bedding. Elongate skeletal particles or intervals displaying verying degrees of cementation. Interparticle porosity with minor moldic porosity. Primary voids filled with fibrous rim, syntaxial and spar calcite cement. The greater the presence of enchinoderm fragments, the greater the cementation. 5630.22 (2cm) and 5630.50 (1cm) shale beds. 2-3 cm fine to medium ooids beds interbedded with 1-3 cm medium to coarse skeletal fragments beds. 5633.85, 5635.5, 5638.15, 5640.2, 5642.2 stylolites. 5635.5 to 5638.15 more skeletal fragments been dissovled and left more moldic pores.

Operator	Amoco	Cored Interval	5610 ~ 5674
Well	Wade Allen 1-36	Core Described	
Location	T29S, R40W, S36	KGS Corebarn Loc.	VB5, TD6, WF3
County	Stanton	Core Depth Correct	
API	15-187-20805	Date	10/1/02
Elevation	3242 GL	Description by	Qi, Lianshuang
Spud Date	7-Dec-95	Page	1 ~ 4

Sample: Plugs	Sample: Thin Sect.	1 Rock Type	2 Dunham/Folk	3 Consolid / Frac	4 Argillaceous	5 Grain Size	6 Main Pore Type	7 Subsidiary Pore	8 Cement mineral	9 Bedding	10 Water Depth	11 Fauna	12 Color	Features	Core Depth
		5	5 -	0		4 -			4 -	7	3	9	3	plus 2.0	
		5	4 -	0		4 -			4 -	7	3	9	3	plus 2.0	5642
		5	3 -	0		5.5 -			4 -	9	3	9	7	plus 2.0	
		5	2 -	0		3 -			4 -	9	2	9	8	plus 2.0	
		5	2 -	0		3 -			4 -	8	2	9	8	plus 2.0	
		5	3 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	2		3.5 -			4 -	8	2	9	3	plus 2.0	
		5	4 -	2		4 -			4 -	8	2	9	3	plus 2.0	
		5	4 -	2		4 -			4 -	8	2	9	3	plus 2.0	
		5	4 -	2		4 -			4 -	8	2	9	3	plus 2.0	
		5	4 -	0		4 -			4 -	8	2	9	3	plus 2.0	5644
		5	3.5 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3.5 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3.5 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		3 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		2.5 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		2.5 -			4 -	8	2	9	3	plus 2.0	
		5	3 -	0		2.5 -			5 -	8	2	9	2	plus 2.0	
		5	3 -	1		3 -			5 -	8	2	9	4	plus 2.0	
		5	3 -	0		2.5 -			4 -	8	2	9	3	plus 2.0	5646
		5	3 -	0		3 -			5 -	8	2	9	4	plus 2.0	
		8	3 -	0		3 -			5 -	8	2	9	4	plus 2.0	
		5	5 -	0		4 -			4 -	7	3	9	8	plus 2.0	
		5	5 -	1		4 -			4 -	7	3	9	8	plus 2.0	
		5	6 -	3		4 -			4 -	7	3	9	7	plus 2.0	
		5	6 -	2		4.5 -			4 -	7	3	9	3	plus 2.0	
		5	6 -	2		4.5 -			4 -	7	3	9	3	plus 2.0	
		5	6 -	2		5 -			4 -	7	3	9	3	plus 2.0	
		5	6 -	0		6 -			4 -	7	3	9	7	plus 2.0	
		5	6 -	0		6.5 -			4 -	7	3	9	7	plus 2.0	5648
		5	6 -	0		6.5 -			4 -	7	3	9	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5650
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5652
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5654
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5656
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	

Comments | **Depo Envir** | **Strat Interval**

5642.3 Stylolite, Flooding surface. "bird's-eye" or fenestral fabric.? Large vugs filled with anhydrite or replacment of chert or calcite spar and algal laminations (paleosol) are common. 5642.8 contains 1-2 cm mud intraclasts, about 6 cm thick. 5642.6 stylolite. 5643.4 one big module. Brachipod, gastropod, enchienderm, ostracods. 5645.2 stylolite. 5645.6 with some dolomitization (anhydrite) 5-6 cm thick. (Subaerial exposure?) 5646.2 stylolite (uncomformity, subaerial exposure, truncation) 6cm thick dolomite.

chert or dolomite, around 6 cm thick

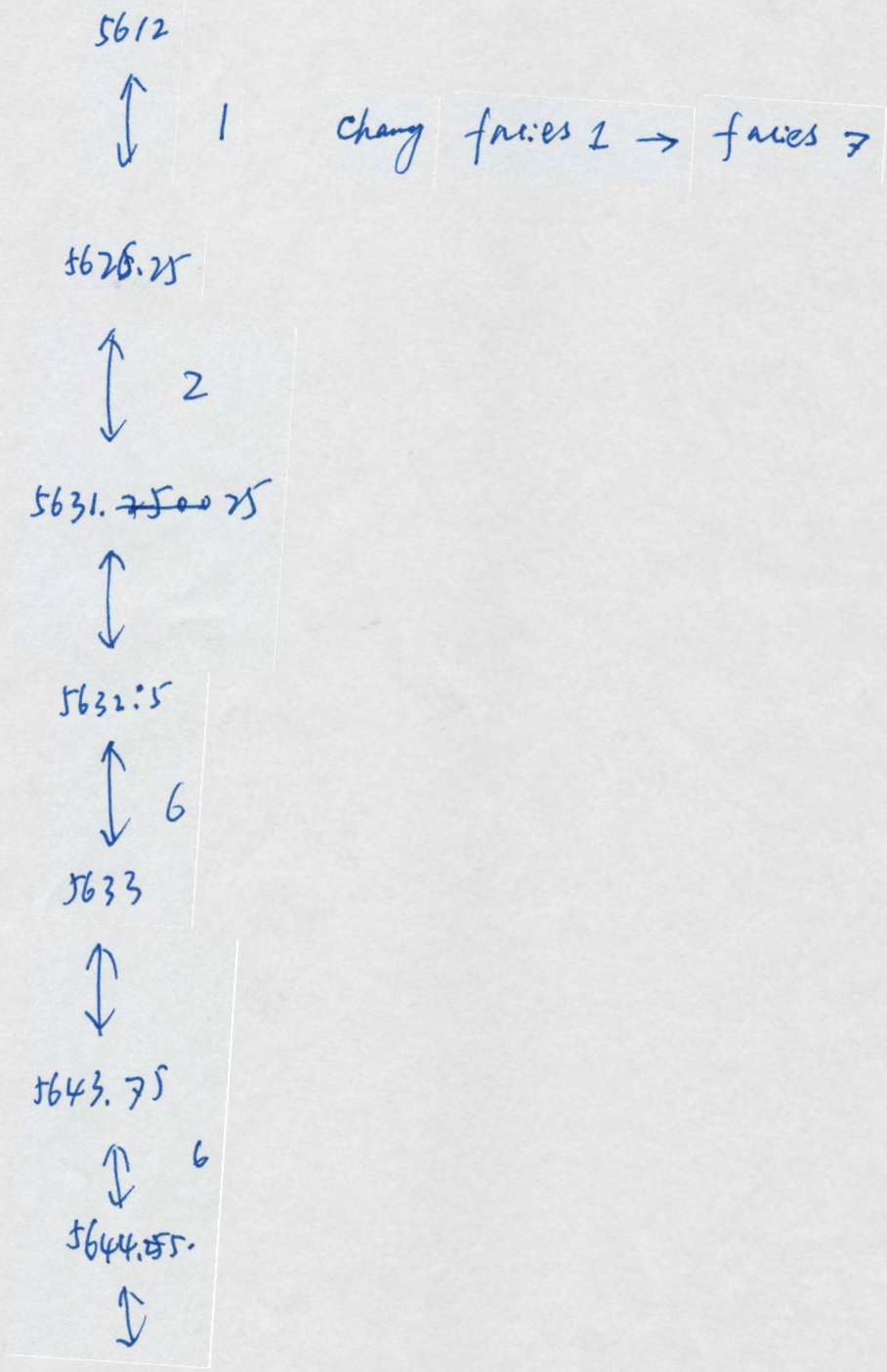
5646.4 stylolite. 5647.80 with abundant skeletal fragments. ostracode, enchiderm, preserved well, Geopetal in one big fossil shell, lower part with ooids, upper spar calcit. Upper: oolitic grainstone, lower part: skeletal grainstone, ostracode, brachipod (0.5~1cm)

5648.2 stylolite, ooid/pellet/peloid skeletal grainstone-packstone. Greenish to dark yellowish-brown with large, relatively unabraded skeletal fragments. Crinoid and fenestrate bryozoan are most abundant with echinoderms, brachiopods, gastropods and foraminifera also presnet. Numerous solution-seam stylolites. Ostracode, Quartz content decrease from bottom to top. shoaling upward, horsetail stylolites.

Operator Amoco
Well Wade Allen 1-36
Location T29S, R40W, S36
County Stanton
API 15-187-20005
Elevation 3242 GL
Spud Date 7-Dec-95

Cored Interval 5610 ~ 5674
Core Described
KGS Corebarn Loc. VB5, TD6, WF3
Core Depth Correct
Date 10/1/02
Description by Qi, Lianshuang
Page 1 – 4

Sample Plugs	Sample Thin Sect.	1 Rock Type	2 Dunham/Folk	3 Consolid / Frac	4 Argillaceous	5 Grain Size	6 Main Pore Type	7 Subsidiary Pore	8 Cement mineral	9 Bedding	10 Water Depth	11 Fauna	12 Color	Features	Core Depth	Comments	Depo Envir	Strat Interval
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5658			
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0	5660			
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	6 -	0		3 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0	5662			
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			4 -	8	3	2	8	plus 2.0				
		5	5 -	0		3.5 -			5 -	8	3	2	8	plus 2.0	5664			
		5	5 -	0		3.5 -			6 -	8	3	2	8	plus 2.0				
		5	5 -	0		5 -			4 -	8	3	8	8	plus 2.0				
		5	5 -	0		5 -			4 -	8	3	8	8	plus 2.0				
		5	6 -	0		5.5 -			4 -	8	3	8	8	plus 2.0				
		5	6 -	0		6 -			4 -	9	3	8	8	plus 2.0				
		5	6 -	0		6.5 -			4 -	9	3	8	8	plus 2.0		skeletal grainstone or packstone, coarse5664.3 stylolite, change of facies. Greenish to dark yellowish-brown with large, relatively unabraded skeletal fragments. Crinoid and fenestrate bryozoan are most abundant with echinoderms, brachiopods, gastropods and foraminifera also presnet. Geopetal, big intraclasts (1-3cm), and detrital quartz.		
		5	6 -	0		6.5 -			4 -	9	3	8	8	plus 2.0				
		5	6 -	0		7 -			4 -	9	3	8	8	plus 2.0				
		5	6 -	0		7 -			4 -	9	3	8	8	plus 2.0				
		5	6 -	0		7.5 -			4 -	9	3	8	8	plus 2.0				
		5	6 -	0		7.5 -			4 -	9	3	8	8	plus 2.0	5666			
		5	6 -	0		7.5 -			4 -	7	3	8	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0	5668			
		0	4 -	0		3 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0		5666.5 flooding surface. Mixed siliciclastic and carbonate is well sorted with medium to very fine sandy and pelletal grains. Angles of cross bedding range up to 25o but most commonly are 10 - 20o. Contains medium grained ooids, peloids, skeletal fragments with micrite and calcite spar cement. Siliciclastic can up to 10 to 20 percent. Compational effects, broken ooids and skeletal fragments, oriented grains, calcite filled fractures and minor pressure dissolution of grains are evident. Interbedded with 2 -4 mm dark shale drapes/layers. Presence of climbing translatent stratification and general absence of open-marine fauna. Some fine FeS2 grains. Bimode structure. inverse bedding. 5666.5 flooding surface, transgressive. Grain size shoaling upward, carbonate grains increase, quartz decrease upward.		
		0	5 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0	5670			
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		3.5 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0	5672			
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				
		0	6 -	0		4 -			4 -	7	0	0	7	plus 2.0				


5612
1
Chang facies 1 → facies 7
5628.25
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5631.7500 25
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5633
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5644.55.

Operator	Amoco
Well	Wade Allen 1-36
Location	T29S, R40W, S36
County	Stanton
API	15-187-20805
Elevation	3242 GL
Spud Date	7-Dec-95

Cored Interval	5610 ~ 5674
Core Described	
KGS Corebarn Loc.	VB5, TD6, WF3
Core Depth Correct	
Date	10/1/02
Description by	Qi, Lianshuang
Page	1 ~ 4

		1	2	-	3	4	5	-	6	7	8	-	9	10	11	12				
Sample																				
Plugs	Thin Sect.	Rock Type	Dunham/Folk		Consolid / Frac	Argillaceous	Grain Size		Main Pore Type	Subsidiary Pore	Cement mineral		Bedding	Water Depth	Fauna	Color	Features	Core Depth	Comments	Depo Envir	Strat Interval
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0				
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0				
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0				
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0				
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0				
		0	6	-	0		4	-			4	-	7	0	0	7	plus 2.0	5674			