

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5447

Name: OXY USA Inc.

Address P. O. Box 26100

City/State/Zip Oklahoma City, Ok 73126-0100

Purchaser: _____

Operator Contact Person: Jerry Ledlow

Phone (405) 749-2309

Contractor: Name: Abercrombie Drilling

License: 30684

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

4/12/93 4/18/93 4/28/93

Spud Date Date Reached TD Completion Date

API NO. 15- 163-23220 - 00 - 00

County _____ Rooks _____

C-N/2-SE-NW Sec. 27 Twp. 9S Rge. 19 XW

1650 Feet from S(N) (circle one) Line of Section

1980 Feet from E(W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Moneau A Well # 5

Field Name Zurich Townsite

Producing Formation Arbuckle

Elevation: Ground 2185 KB 2190

Total Depth 3701 PBDT 3658

Amount of Surface Pipe Set and Cemented at 255 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3700 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan 7-13-93
(Data must be collected from the Reserve Pit)

Chloride content 4500 ppm Fluid volume 400 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). **One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Gregory C. Rowe Greg Rowe

Title Facilities Engineer Date JUNE 17, 1993

Subscribed and sworn to before me this 17 day of June, 1993.

Notary Public Jammy Rodilla

Date Commission Expires August 21, 1996

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

RECEIVED
STATE CORPORATION COMMISSION
Form ACO-1 (7-91) 7/9/93
JUL - 9 1993
CONSERVATION DIVISION
Wichita, Kansas

SIDE TWO

Operator Name OXY USA Inc. Lease Name Mongeau A Well # 5

Sec. 27 Twp. 9S Rge. 19 East West
 County Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 Z-Densilog Compensated Neutron
 Segmented Bond Log
 Minilog
 Dual Induction Focused Log

Log Sample

Name	Top	Datum
Topeka	3120	- 930
Lecompton	3230	-1040
Oread	3276	-1086
Heebner	3328	-1138
Toronto	3348	-1158
Lansing	3366	-1176

CASING RECORD New 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"	24	255	A	200	
Production	7 3/4"	5 1/2"	14	3700	1 stage 2 stage	175 300	
				DVTool @	1575 TOC @	2600	

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	3628 - 29		
4	3627 - 29		
4	3625 - 27		
4	3611 - 12		

TUBING RECORD Size 2 7/8 Set At 3631 Packer At 3620 Liner Run Yes No

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

Estimated Production Per 24 Hours	Oil 19 Bbls.	Gas Mcf	Water 41 Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval 3611 -3625

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled _____

Other (Specify) _____

OXY, Inc.
Mongeau #5

Allied Cementing
March 17, 1993
Wichita, Kansas

Surface

WELL DATA

Depth	250'
Pipe Size	8 5/8"
Hole Size	12 1/4"
Desired Fill	250'
Fill Factor, cu.ft./ft.	.4127

RECOMMENDED SLURRY

200 Class A Cement, 3% Calcium, and 1/4# Floseal per sack

SLURRY PROPERTIES

Yield, cu.ft./ft.	1.17
Density, ppg.	15.7
Water, gal/sk.	5.20

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Wichita, Kansas

OXY, Inc.
Mongeau #5

Allied Cementing
March 17, 1993
Wichita, Kansas

Cost Estimate:

Pump Truck Charge	430.00
Pump Truck Mileage - 10	22.50
Class A Cement - 200 sacks	1150.00
Calcium - 6 sacks	150.00
Floseal - 50 pounds	55.00
Handling Charge - 200 sacks	200.00
Mileage - 200 @ 10	80.00
1-8 5/8" Wooden plug	42.00
2-8 5/8" Centralizers	122.00

Total	2251.50
Less 20%	450.30
Bid Price	\$ 1801.20

Estimate is based on the current price structure and may vary with materials, time, and equipment used during the job.

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Wichita, Kansas

OXY, Inc.
Mongeau #5

Allied Cementing
March 17, 1993
Wichita, Kansas

Production

WELL DATA

Depth	3700'
Pipe Size	5 1/2"
Hole Size	7 7/8"
Desired fill - 1st Stage	900'
Desired fill - 2nd Stage	1580'
Fill Factor, cu.ft./ft.	.1733

RECOMMENDED SLURRIES

1st Stage
40 barrels 3% Salt Water
3 barrels fresh water
500 gallons Mud Sweep
3 barrels fresh water
175 sacks Class A, 10% Calseal, 10% Salt, 1/2 of 1% FL-10,
1 1/2% Calcium, 1/4# Defoamer
2nd Stage
300 sacks 65/35, 10% Gel, 1/4# Floseal

Slurry Properties

Yield, cu.ft./sk.	2.06	1.39
Density, ppg.	12.4	15.5
Mixing Water, gal/sk.	10.8	6.40

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CONSERVATION DIVISION
Wichita, Kansas

OXY, Inc.
Mongeau #5

Allied Cementing
March 17, 1993
Wichita, Kansas

Cost Estimate:

Pump Truck Charge	980.00
Top Stage	525.00
Pump Truck Mileage - 10	22.50
Class A Cement - 370 sacks	2127.50
Pozmix - 105 sacks	315.00
Gel - 30 sacks	210.00
Calcium - 2 sacks	50.00
FL-10 - 82 pounds	566.62
Salt - 23 sacks	120.75
Mud Sweep - 500 gallons	950.00
Cal Seal - 17 sacks	238.00
Handling - 475 sacks	475.00
Mileage - 475 @ 10	190.00
1-5 1/2" Guide Shoe	125.00
1-5 1/2" Insert	189.00
10-5 1/2" Centralizers	560.00
1-5 1/2" DV Tool	3065.00
1-5 1/2" Basket	127.00

Total	10836.37
Less 20%	2167.27
Bid Price	\$ 8669.10

Rotating Head
60

Estimate is based on current price structure and may vary with materials, time, and equipment actually used.

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

TO: Oxy U. S. A., Inc.
P. O. Box 26100
Oklahoma City, OK 73126-0100

EC0640

INVOICE NO. 63712
PURCHASE ORDER NO. _____
LEASE NAME Mongeau #5
DATE 4-18-93

SERVICE AND MATERIALS AS FOLLOWS:

Cementing

Common 195 sks @\$5.75	\$1,121.25	
Pozmix 105 sks @\$3.00	315.00	
Gel 30 sks @\$7.00	210.00	\$1,646.25
Handling 300 sks @\$1.00	300.00	
Mileage	120.00	
Top 2 stage	525.00	945.00
Total		\$2,591.25

5793
1332 51793006
ABB

Thank you!

91572833 X 2360 / 724 = 2073.00

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JUL - 9 1993
CONSERVATION DIVISION
Wichita, Kansas

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

NFW

ALLIED CEMENTING CO., INC. 5709

Home Office P. O. Box 31 Russell, Kansas 67665

Date	4-18-92	Sec.	27	Twp.	9	Range	19	Called Out	6:30 AM	On Location	9:00 AM	Job Start	3:40 PM	Finish	4:15 PM
Lease	Mongean	Well No.	5	Location	W 1/2 E 1/2 S 31			County	Rooks	State	KS				
Contractor	Abremcrobia Drlg # 8											Owner	Oxy USA		
Type Job	Top Two Stage											To Allied Cementing Co., 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	7 7/8		T.D.	3701											
Csg. 14"	5 1/2		Depth	3702											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Press Max.			Minimum												
Meas Line	NO		Displace	38.4											
Perf.															

EQUIPMENT

Pumptrk	No.	Cementer	Bill Leikam Dean Rundo
	277	Helper	
Pumptrk	No.	Cementer	Coyl Kaito Steve Williams
	230	Helper	
		Driver	
Bulktrk		Driver	

Charge To: Oxy USA

Street:

City:

State:

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. (AFE)

X *Donald E. Holden*

CEMENT

Amount Ordered: 300 sks 65/35 10% Gel

Consisting of:

Common	195 sks	1121.25
Poz. Mix	105 sks	315.00
Gel.	30 sks	210.00
Chloride		
Quickset		

DEPTH of Job: 1575'

Reference:	Pump To k chrg	525.00
	2 1/2 hr mile remote	N/A
	Sub Total	525.00
	Tax	
	Total	

Handling	300.00
Mileage	120.00
Sub Total	262.25
Dis	518.25
Total	2103.00

Remarks: Ran 87 joints of 5 1/2 Csg. DU tool at 1575 to 1578. Open DU Tool w 800 PSI Cemented w/ 300 sk 65/35 10% Gel. Plug held cement and circulate

Floating Equipment

Thread lock compound #30.00

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 STATE CORPORATION COMMISSION
 JUL - 9 1993
 CONSERVATION DIVISION
 Wichita, Kansas

TELEPHONE
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.
P. O. BOX 31
RUSSELL, KANSAS 67665

TO: Oxy U. S. A., Inc.
P. O. Box 26100
Oklahoma City, OK 73126-0100
E0640

INVOICE NO. 63675
PURCHASE ORDER NO. _____
LEASE NAME Mongean "A" #5
DATE 4-12-93

SERVICE AND MATERIALS AS FOLLOWS:

91572833 X 2360.1/724 = 1801.20

Common 200 sks @\$5.75 \$1,150.00
Chloride 6 sks @\$25.00 150.00
Flo seal 50# @\$1.10 55.00
\$1,355.00

Handling 200 sks @\$1.00 200.00
Mileage 10) @\$.04¢ per sk per mi 80.00
Surface 430.00
Mi @\$2.25 pmptrk chg 22.50
1 plug 42.00
774.50

Total \$2,129.50

2 centralizers-----\$122.00
32
122.00

Total \$2,251.50

cement circulated

42393
006
JPB
Thank you!

old 450.30
1801.20

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 4272

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	4-12-93	Sec.	27	Twp.	9	Range	19W	Called Out	7:00 PM	On Location	8:45 PM	Job Start	11:15 PM	Finish	11:45 PM
Lease	Mongean	Well No.	A-5	Location	Zurich	1N 9E 4S		County	Rook	R3					
Contractor	Abercrombie RtD														
Type Job	Surface														
Hole Size	12 1/4		T.D.	263											
Csg.	8 1/4		Depth	262											
Tbg. Size	Depth														
Drill Pipe	Depth														
Tool	Depth														
Cement Left in Csg.	10 '15		Shoe Joint												
Press Max.	Minimum														
Meas Line			Displace	15.75											
Perf.															

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To **OXY USA Inc**

Street _____

City _____ State _____

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. **AFF # 9-1572835**

X **Donald Miller**
CEMENT 3/4 cc 1/2 lb Flowse

Amount Ordered	200 sk Class A Common per sk	
Consisting of	Common 200 @ 5.75	
Poz. Mix	1150.00	
Gel.		
Chloride	6 @ 25.00	150.00
Quickset		
Flowsal	30 @ 1.10	55.00

Handling 200 sk @ 1.00 = 200.00

Mileage 4¢ per sk per mile = 80.00

sub total 2251.50 Sub Total

Less 20% 450.30

total 1801.20 Total

Floating Equipment 8¢
2 Centulizer - 122.00

EQUIPMENT		
Pumptrk	No. 153	Cementer Sonny
		Helper Dave
Pumptrk	No.	Cementer
		Helper
Bulktrk	213	Driver Steve
Bulktrk		Driver

DEPTH of Job		
Reference:	Dump trk chg	430.00
	2.25 Per mile	22.50
	8 1/2 wooden plug	42.00
	Sub Total	
	Tax	
	Total	494.50

Remarks: **Cement Did Circulate**

Thanks

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STATE CORPORATION COMMISSION
JUL - 9 1993
CONSERVATION DIVISION
Wichita, Kansas

2

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

OKLAHOMA CITY, OKLA. RUSSELL, KANSAS 67665

TO: Oxy U. S. A., Inc.

P. O. Box 26100

Oklahoma City, OK

DATE REC'D: 5-7-93
 OUR DATE: 5-7-93
 CD-BUY-SUP
 321
 5/11 12A NG PG
 SB
 73126-0700
 CASH BROS.
 10-6640

INVOICE NO. 63711

PURCHASE ORDER NO.

LEASE NAME Mongeau #5

DATE 4-18-93

SERVICE AND MATERIALS AS FOLLOWS:

91572833 X 2360 / 724 = 6596.10

Common 175 sks @\$5.75	\$1,006.25 ✓	
Mud Sweep 500 gal. \$1.90	950.00 ✓	
FL 10 82# @\$6.91	566.62 ✓	
Chloride 2 sks @\$25.00	50.00	
Cal Seal 17 sks @\$14.00	238.00	
Salt 23 sks @\$5.25	120.75	\$2,931.62

Handling 175 sks @\$1.00	175.00	
Mileage (10) @\$.04¢ per sk per mi	70.00	
Bottom 2 stage	980.00	
Mi @\$2.25 pmp trk chg	22.50	1,247.50

1 Guide Shoe-----	\$ 125.00
1 Insert-----	189.00
10 Centralizers-----	560.00
1 DV Tool-----	3,065.00
1 Basket-----	127.00

If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

RECEIVED
 STATE OF OKLAHOMA
 DEPARTMENT OF REVENUE
 JUL 9 1993
 4,066.00
 101649.02R
 \$8,245.12
 6596.10

Rec back FROM SB 5-17-93

Thank you! Total All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

NEW

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 5708

Home Office P. O. Box 31 Russell, Kansas 67665

Date	4-18-93	Sec.	27	Twp.	9	Range	19	Called Out	6:30 AM	On Location	9:00 AM	Job Start	2:00 PM	Finish	2:30 PM
Lease	Mongean	Well No.	5	Location	N 1/2 E 35 S Bunch			County	ROCK	State	KS				
Contractor	Abercrombie Drilg # 8							Owner	Oxy USA						
Type Job	Bottom Two Stage														
Hole Size	7 7/8			T.D.	3701'										
Csg.	14" 5 1/2			Depth	3702'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.				Shoe Joint	41.8										
Press Max.				Minimum											
Meas Line	NO			Displace											
Perf.															

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To: Oxy USA
 Street:
 City: State:

The above was done to satisfaction and supervision of owner-agent or contractor.

Purchase Order No. (AFE)
 X Donald E. Mulder

EQUIPMENT

Bill Leikan		
No.	Cementer	Dean Rundle
Pumptrk 277	Helper	
No.	Cementer	Carl Battin
Pumptrk 280	Helper	Wayne
218	Driver	Steve Williams
Bulktrk		
Bulktrk	Driver	

Amount Ordered		175 sk com 10% Cal seal 5% Salt
Consisting of		2011 gal FL 10 10% Cal seal 5% Salt
Common	175 sk	1006.25
Remainder	Mud sweep 500 gal	950.00
Gal. FL 10	82 gal	566.62
Chloride	2 SK	50.00
Equipment	Cal seal 17 sk	238.00
SALT	23 sks	120.75

DEPTH of Job 3702'

Reference:	Pump Trk chrg	980.00
	2% Perm. 10 m. tes	22.50
	Sub Total	1002.50
	Tax	
	Total	

Handling	175.00
Mileage	10 m. 100
	70.00
Sub Total	8245.10
DISC	1649.00
Total	6596.10

Remarks:
 Ran 87 Joints 5 1/2 csg
 Ran Cent. 1, 3, 5, 7, 9, 11, 13, 16, 50, 52
 Basket Bottom 51. DU Top 51
 DU at 1575-1578. Pumped Salt
 Flush w/ 10% Deco in lab to Rly followed
 w/ 500 gal Mud Sweep then 175 sk cement

Floating Equipment	Guide shoe (1)	
	Insert (1)	
	Centrifuges (10)	560.00
	DU Tool (1)	3065.00
	Basket (1)	122.00
	Total	4066.00

RECEIVED
 STATE COMMISSION
 #125.00
 6/18/93
 1993
 #560.00
 #3065.00
 #122.00

ORIGINAL

GEOLOGICAL REPORT

OXY USA INC.

MONGEAU "A" #5

Section 27-T9S-R19W
1650' FNL & 1980'FWL
Rooks County, Kansas

Operator: OXY USA, INC.
 Lease: Mongeau "A" #5
 Field: Zurich Townsite
 Location: 1650' FNL & 1980'FWL. Section 27-T9S-R19W
 Elevation: GL 2185. KB 2190 (all measurements from KB)
 County: Rooks
 State: Kansas
 Company Representative: Don Shelden
 Contractor: Abercrombie. Rig #8
 Commenced: 04/12/1993
 Completed: 04/18/1993
 API Number: #15-163-23220

CASING RECORD

Surface Casing: 8 5/8" @ 262'
 Production Casing: 5 1/2" @ 3700'

DRILL TIME AND SAMPLES

Drill Time: plotted from 3100' to RTD
 Samples: saved and examined from 3100' to RTD

ELECTRIC LOG

Company: Atlas Wireline
 DIFL/GR and ZDL/CN/ML/GR

GEOLOGIST

Project Geologist: Bill Keller
 Wellsite Geologist: Steve Davis (wellsite supervision 3100'- RTD)

FORMATION TOPS: KB 2190

	Log	Sample
Topeka	3120(- 930)	3120(- 930)
Lecompton	3229(-1039)	3230(-1040)
Oread	3275(-1085)	3276(-1086)
Heebner	3328(-1138)	3328(-1138)
Toronto	3348(-1158)	3348(-1158)
Lansing Kansas City	3367(-1177)	3366(-1176)
Base of Kansas City	3583(-1393)	3584(-1394)
Arbuckle	3606(-1416)	3606(-1416)
Total Depth	3702(-1512)	3701(-1511)

SAMPLE DESCRIPTIONS:
(correlated to electric log)

TOPEKA LIMESTONE 3120(- 930)

- 3120-28 Limestone. cream to tan. fine crystalline. fossiliferous. chalky. No visible porosity.
- 3149-53 Limestone. cream to tan. fine to very fine crystalline. slightly fossiliferous. Poor pinpoint porosity and poor intercrystalline porosity. Trace of free oil. no odor. spotted stain.

OREAD 3275(-1085)

- 3277-82 Limestone. cream to tan. fine crystalline. slightly dolomitic. slightly fossiliferous. Very poor vuggy porosity and very poor pinpoint porosity. Trace of free oil, good show of scummy residual oil. Few gas bubbles with uniform to spotted stain. No odor. Included. chert. white, opaque.

PLATTSMOUTH 3297(-1107)

- 3306-09 Limestone. brown to gray. fine crystalline. slightly fossiliferous. Fair pinpoint porosity. trace of free oil. fair show of scummy residual oil, spotted stain. no odor. Included. chert. white. translucent. fossiliferous.

TORONTO 3348(-1158)

- 3349-51 Limestone. cream to tan. fine crystalline. slightly dolomitic and slightly fossiliferous. Fair to poor vuggy porosity and fair pinpoint porosity. Trace of free oil with uniform light stain. No odor. Included. chert. white. opaque.

LANSING 3367(-1177)

- 3367-79 Limestone. cream to off white. fine to very fine crystalline. slightly fossiliferous. poor vuggy porosity. trace of residual scummy oil. no show of free oil. No odor with spotted stain. Included. chert, cream to amber.
- 3449-52 Limestone. cream to off white. fine crystalline. slightly fossiliferous. Poor vuggy porosity and poor pinpoint porosity. trace of free oil and good show of scummy residual oil. uniform to spotted stain. fair odor.
- 3501-04 Limestone. tan to off white. slightly fossiliferous. poor pinpoint porosity. Fair show of free oil. faint odor. spotted to uniform stain. Included. chert amber.

ORIGINAL

Mongeau "A" #5
Section 27-T9S-R19W
Rooks County, Kansas

SAMPLE DESCRIPTIONS CONTINUED:
(correlated to electric log)

3538-41 Limestone. brown. fine to very fine crystalline. fair oolitic porosity. fair show of free oil. fair odor. uniform stain.

ARBUCKLE 3606(-1416)

3614 Dolomite. cream to brown. fine to medium crystalline. no visible porosity. cherty in part. Included. dolomite, tan to gray. fine to coarse crystalline with fair to poor intercrystalline porosity. Good show of free oil. uniform to spotted stain. fair to good odor. Included, chert, gray to amber. translucent. (DST #1)

DRILL STEM TEST #1

INTERVAL: 3609-3614 (30-30-30-30)

BLOW: I.F. weak, died in 30"

F.F. no blow
(flushed tool, no help)

RECOVERY: 20' mud

PRESSURES:	Initial Hydrostatic Pressure	2109#
	Initial Flow Pressure	22-22#
	Initial Shut In Pressure	22#
	Final Flow Pressure	22-22#
	Final Shut In Pressure	22#
	Final Hydrostatic Pressure	2080#

BOTTOM HOLE

TEMPERATURE: 107 F

SAMPLE DESCRIPTIONS CONTINUED:
(correlated to electric log)

3620 Dolomite. tan to gray. fine to coarse crystalline. fair to poor intercrystalline porosity. Fair to good show of free oil. uniform to spotted stain. Included. dolomite brown. fine to medium crystalline. fair to poor intercrystalline porosity. good show of free oil. uniform dark stain. good odor. Included. dolomite. cream to off white. fine to coarse crystalline. no visible porosity. plus chert. gray to amber translucent.

3623 Dolomite. brown. fine to medium crystalline. fair to poor intercrystalline porosity. good show of free oil. uniform dark stain. some black. Good odor. Included. dolomite. cream to pink. fine to medium crystalline. no visible porosity. (DST #2)

ORIGINAL

Mongeau-"A" #5
Section 27-T9S-R19W
Rooks County, Kansas

DRILL STEM TEST #2
INTERVAL: 3611-3623 (30-60-90-120)
BLOW: I.F. 2" building to 5 1/2"
F.F. weak building to 4"
RECOVERY: 90' gas in pipe
120' clean gassy oil
(10% gas, 90% oil)
110' oil cut mud
(20% oil, 80% mud)
PRESSURES: Initial Hydrostatic Pressure 1795#
Initial Flow Pressure 59-67#
Initial Shut In Pressure 636#
Final Flow Pressure 74-104#
Final Shut In Pressure 644#
Final Hydrostatic Pressure 1750#
BOTTOM HOLE
TEMPERATURE: 106 F

SAMPLE DESCRIPTIONS CONTINUED:
(correlated to electric log)

3624-38 Dolomite, brown to black, fine to coarse crystalline. Poor to good intercrystalline porosity with fair to good show of free oil. Uniform dark to spotted stain. Good odor. Included, chert white, translucent, slightly fossiliferous, plus dolomite, off white, fine crystalline with no visible porosity.

Following log analysis, 5 1/2" production casing was cemented at 3700' for further evaluation of the Mongeau "A" #5.

Samples saved from 3110' to 3701' (RTD). have been deposited at the Kansas Geological Survey.

Respectfully,

Richard S. Davis Jr.

Richard S. Davis Jr.
Wellsite Geologist