15-033-21128

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JUL 01 2002

CONSERVATION DIVISION
WICHITA, KS



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Douglas Sand Effective Pay -- Ft. Ticket No. J1123

Date 6-03-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 4,327 ft. to 4,400 ft. Total Depth 4,400 ft.

Packer Depth 4,322 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,327 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,330 ft. Recorder Number 13556 Cap. 5,475 psi

Bottom Recorder Depth (Outside) 4,397 ft. Recorder Number 13498 Cap. 3,925 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length 550 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 56 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 11.0 cc. Drill Pipe Length 3,751 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 73 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 30 secs. Gas to surface in 10 mins.
2nd Open: Gas to surface throughout. (SEE GAS VOLUME REPORT)

Recovered 260 ft. of gassy mud cut water = 1.279200 bbls. (Grind out: 15%-gas; 40%-mud; 45%-water)

Recovered 246 ft. of slightly mud cut gassy water = 1.210320 bbls. (Grind out: 5%-mud; 15%-gas; 80%-water)

Recovered 680 ft. of gas cut water = 4.922880 bbls.

Recovered 1,186 ft. of TOTAL FLUID = 7.412400 bbls.

Recovered ft. of

Remarks

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:10 ~~A.M.~~ P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure ..... (A) 2076 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 150 P.S.I. to (C) 260 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1530 P.S.I.

Final Flow Period ..... Minutes 40 (E) 268 P.S.I. to (F) 451 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1475 P.S.I.

Final Hydrostatic Pressure ..... (H) 2030 P.S.I.

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WICHITA, KS

GAS VOLUME REPORT

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Date 6-03-01 Sec. 16 Twp. 32 S Rge. 18 W Location C SE NE SW County Comanche State KS

Drilling Contractor VAL Energy, Inc. - Rig 2 Formation Douglas Sand DST No. 1

Remarks: 1st Open: Gas to surface in 10 mins.
2nd Open: Gas to surface throughout.

Gas sample taken.

INITIAL FLOW

Open Tool: 9:00 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
9:15 p.m	3/8 in.	12 in.	12,400
9:20 p.m.	3/8 in.	15 in.	13,900
9:25 p.m.	3/8 in.	12 in.	12,400
9:30 p.m	3/8 in.	7 in.	9,450

FINAL FLOW

Open Tool: 10:30 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
10:40 p.m	1/8 in.	10 in.	1,670
10:50 p.m	1/8 in.	22 in.	2,480
11:00 p.m	1/8 in.	22 in.	2,480
11:10 p.m	1/8 in.	22 in.	2,480

RBC# 13556 INSIDE DST#1 LOC 4330 12HR CLOCK #19621

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This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2076	2090	PSI
(B)	First Initial Flow Pressure	150	153	PSI
(C)	First Final Flow Pressure	260	287	PSI
(D)	Initial Closed-in Pressure	1530	1535	PSI
(E)	Second Initial Flow Pressure	268	387	PSI
(F)	Second Final Flow Pressure	451	478	PSI
(G)	Final Closed-in Pressure	1475	1483	PSI
(H)	Final Hydrostatic Mud	2030	2020	PSI

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DIAMOND TESTING

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Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Lansing/Kansas City "Drum" Effective Pay -- Ft. Ticket No. J1124

Date 6-05-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 4,699 ft. to 4,728 ft. Total Depth 4,728 ft.

Packer Depth 4,694 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,699 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,720 ft. Recorder Number 13556 Cap. 5,475 psi

Bottom Recorder Depth (Outside) 4,725 ft. Recorder Number 13498 Cap. 3,925 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length 550 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 55 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length 4,123 ft. I.D. 3 1/2 in.

Chlorides 6,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 29 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 20 secs. Gas to surface in 4 mins.
2nd Open: Strong blow. Gas to surface throughout. (SEE GAS VOLUME REPORT)

Recovered 170 ft. of water cut gassy mud = .836400 bbls. (Grind out: 10%-water; 30%-gas; 60%-mud)

Recovered 120 ft. of slightly mud cut gassy water = .590400 bbls. (Grind out: 5%-mud; 20%-gas; 75%-water)

Recovered 800 ft. of gassy water = 5.275200 bbls. (Grind out: 20%-gas; 80%-water) Chlorides: 120,000 Ppm.

Recovered 1,090 ft. of TOTAL FLUID = 6.702000 bbls.

Recovered ft. of

Remarks

Time Set Packer(s) 4:50 A.M. P.M. Time Started Off Bottom 8:20 A.M. P.M. Maximum Temperature 126°

Initial Hydrostatic Pressure ..... (A) 2250 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 185 P.S.I. to (C) 195 P.S.I.

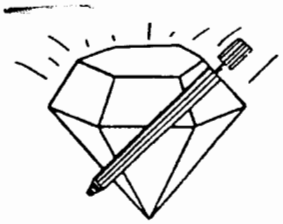
Initial Closed In Period ..... Minutes 60 (D) 1592 P.S.I.

Final Flow Period ..... Minutes 60 (E) 253 P.S.I. to (F) 400 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1592 P.S.I.

Final Hydrostatic Pressure ..... (H) 2234 P.S.I.

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WICHITA, KS

GAS VOLUME REPORT

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Date 6-05-01 Sec. 16 Twp. 32 S Rge. 18 W Location C SE NE SW County Comanche State KS

Drilling Contractor VAL Energy, Inc. - Rig 2 Formation Lansing/Kansas City "Drum" DST No. 2

Remarks: 1st Open: Gas to surface in 4 mins.
2nd Open: Gas to surface throughout.

INITIAL FLOW

Open Tool: 4:50 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
5:00 a.m.	½ in.	8 psi	101,000
5:10 a.m.	½ in.	6 psi	86,300
5:20 a.m.	½ in.	6 psi	86,300

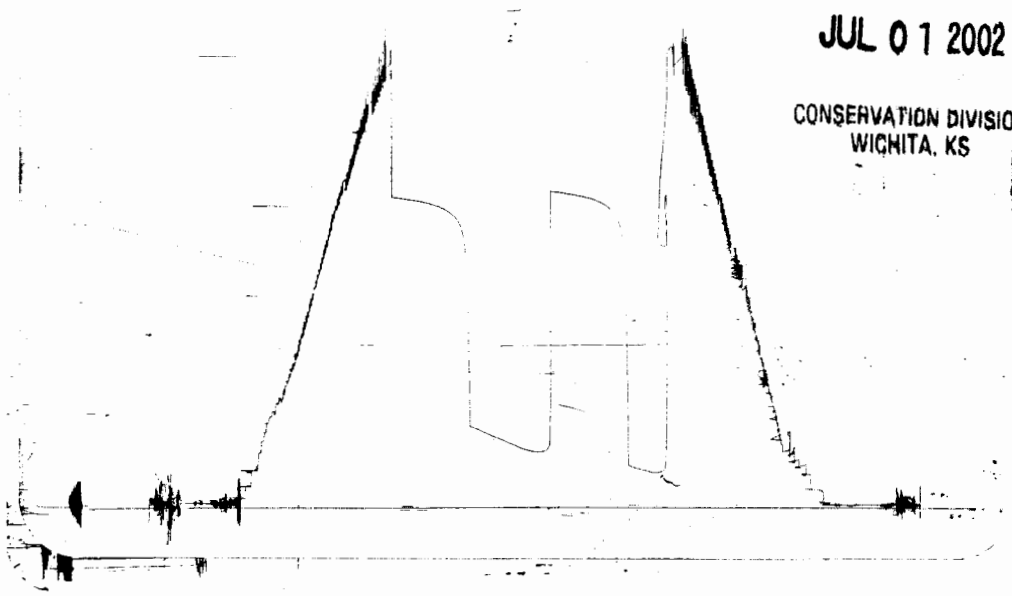
FINAL FLOW

Open Tool: 6:20 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
6:30 a.m.	½ in.	7 psi	94,500
6:40 a.m.	½ in.	3 psi	59,200
6:50 a.m.	½ in.	18 in.	26,600
7:00 a.m.	½ in.	18 in.	26,600
7:10 a.m.	½ in.	17 in.	25,800
7:20 a.m.	½ in.	17 in.	25,800

Rock 18498 OUTSIDE LOC 4725 DST #2 12HR [illegible] 3153

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WICHITA, KS



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2250	2240	PSI
(B)	First Initial Flow Pressure	185	173	PSI
(C)	First Final Flow Pressure	195	187	PSI
(D)	Initial Closed-in Pressure	1592	1606	PSI
(E)	Second Initial Flow Pressure	253	260	PSI
(F)	Second Final Flow Pressure	400	396	PSI
(G)	Final Closed-in Pressure	1592	1606	PSI
(H)	Final Hydrostatic Mud	2234	2220	PSI

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WICHITA, KS

DIAMOND TESTING
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Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Lansing/Kansas City "Swope" Effective Pay -- Ft. Ticket No. J1125

Date 6-06-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 4,806 ft. to 4,838 ft. Total Depth 4,838 ft.

Packer Depth 4,801 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,806 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,830 ft. Recorder Number 13556 Cap. 5,475 psi

Bottom Recorder Depth (Outside) 4,835 ft. Recorder Number 13498 Cap. 3,925 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length 550 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 4,230 ft. I.D. 3 1/2 in.

Chlorides 6,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 32 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 2 mins.
2nd Open: Strong blow. Off bottom of bucket in 4 mins.

Recovered 160 ft. of gas cut mud = .787200 bbls. (Grind out: 10%-gas; 90%-mud)

Recovered 60 ft. of gas & water cut mud = .295200 bbls. (Grind out: 10%-gas; 20%-water; 70%-mud)

Recovered 120 ft. of slightly mud cut gassy water = .590400 bbls. (Grind out: 5%-mud; 15%-gas; 80%-water)

Recovered 340 ft. of TOTAL FLUID = 1.672800 bbls.

Recovered ft. of

Remarks

Time Set Packer(s) 1:30 A.M. P.M. Time Started Off Bottom 5:00 A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 2290 P.S.I.

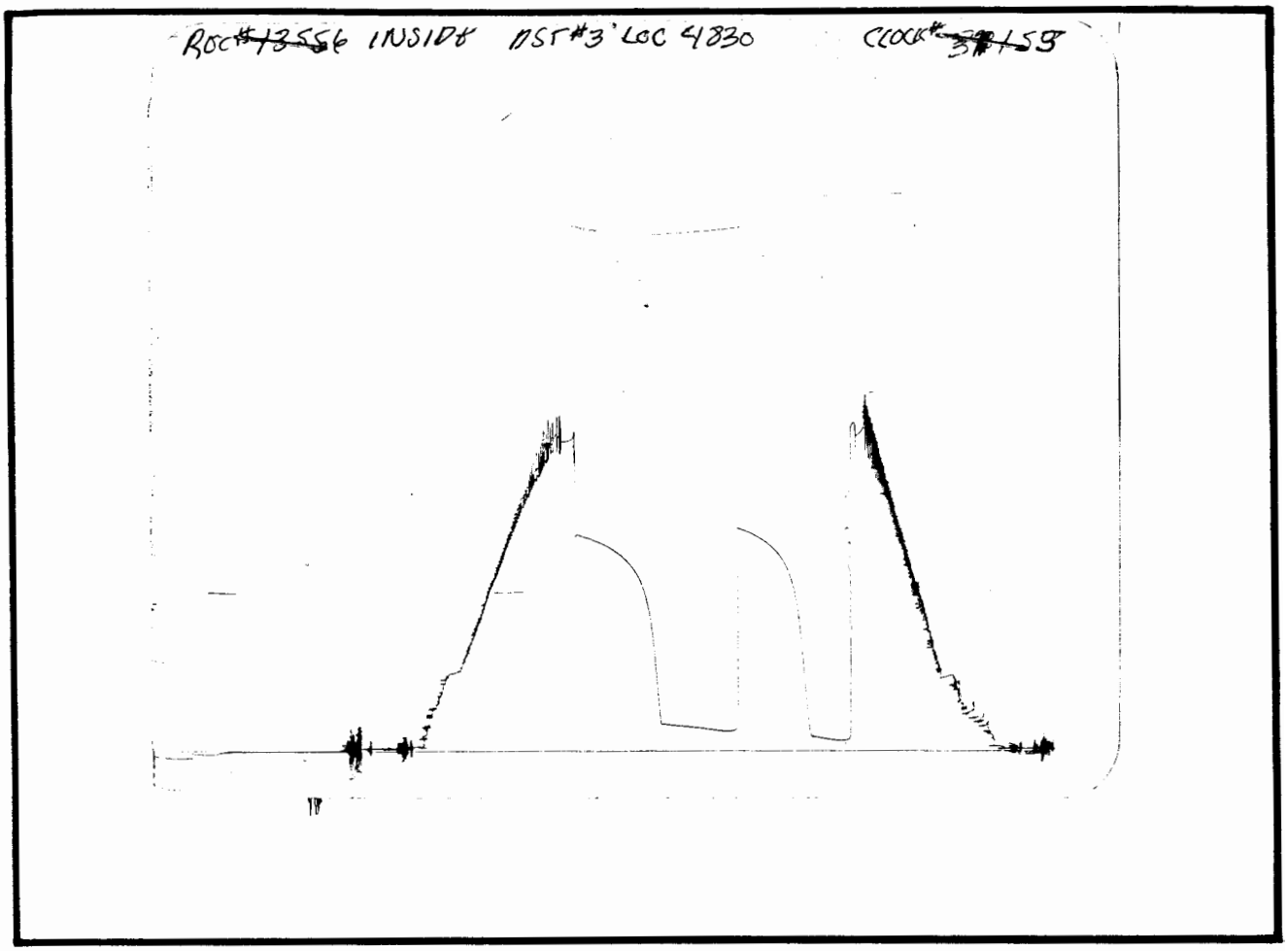
Initial Flow Period ..... Minutes 30 (B) 55 P.S.I. to (C) 90 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1614 P.S.I.

Final Flow Period ..... Minutes 60 (E) 115 P.S.I. to (F) 153 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1585 P.S.I.

Final Hydrostatic Pressure ..... (H) 2264 P.S.I.



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2290	2312	PSI
(B)	First Initial Flow Pressure	55	61	PSI
(C)	First Final Flow Pressure	90	93	PSI
(D)	Initial Closed-in Pressure	1614	1619	PSI
(E)	Second Initial Flow Pressure	115	128	PSI
(F)	Second Final Flow Pressure	153	163	PSI
(G)	Final Closed-in Pressure	1585	1576	PSI
(H)	Final Hydrostatic Mud	2264	2275	PSI

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DIAMOND TESTING

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Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Altamont Effective Pay --Ft. Ticket No. J1126

Date 6-07-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 5,018 ft. to 5,052 ft. Total Depth 5,052 ft.

Packer Depth 5,013 ft. Size 6 3/4 in. Packer Depth --ft. Size -- in.

Packer Depth 5,018 ft. Size 6 3/4 in. Packer Depth --ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 5,021 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 5,049 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length 62 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 4,930 ft. I.D. 3 1/2 in.

Chlorides 7,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 34 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 50 secs.
2nd Open: Strong blow. Off bottom of bucket immediately. Gas to surface in 20 mins.
(SEE GAS VOLUME REPORT)

Recovered 40 ft. of slightly oily water & gas cut mud = .196800 bbls. (Grind out: 2%-oil; 5%-water; 25%-gas; 68%-mud)

Recovered 62 ft. of oil & water cut gassy mud = .404240 bbls. (Grind out: 7%-oil; 20%-water; 45%-gas; 28%-mud)

Recovered 62 ft. of oil & water cut gassy mud = .458800 bbls. (Grind out: 15%-oil; 10%-water; 30%-gas; 45%-mud)

Recovered 164 ft. of TOTAL FLUID = 1.059840 bbls.

Recovered ft. of

Remarks

Time Set Packer(s) 10:30 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 116°

Initial Hydrostatic Pressure ..... (A) 2362 P.S.I.

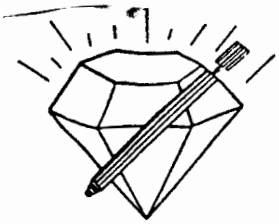
Initial Flow Period ..... Minutes 30 (B) 33 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1149 P.S.I.

Final Flow Period ..... Minutes 60 (E) 58 P.S.I. to (F) 72 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 910 P.S.I.

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GAS VOLUME REPORT

CONSERVATION DIVISION
WICHITA, KS

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Date 6-07-01 Sec. 16 Twp. 32S Rge. 18 W Location C SE NE SW County Comanche State KS

Drilling Contractor VAL Energy, Inc. - Rig 2 Formation Altamont DST No. 4

Remarks: 2nd Open: Gas to surface in 20 mins. Gas sample taken.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

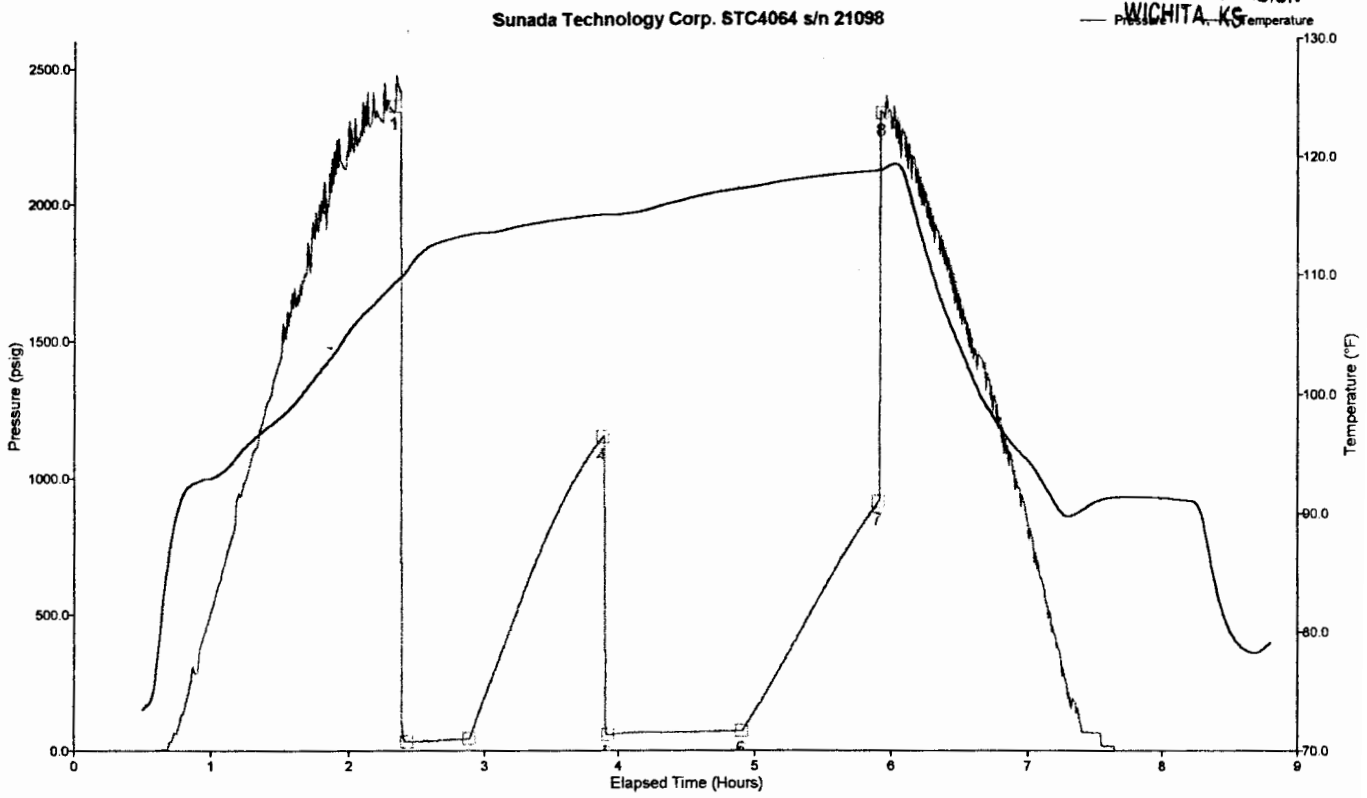
FINAL FLOW

Open Tool: 12:00 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
12:20 p.m	3/8 in.	17 in.	13,100
12:30 p.m.	3/8 in.	18 in.	13,500
12:40 p.m.	3/8 in.	17 in.	13,100
12:50 p.m	3/8 in.	20 in.	14,600
1:00 p.m.	3/8 in.	22 in.	15,500

Well LSD: DST #4 ALTAMONT 5018'-5052'
Well Name: BERGNER 16-2
Company: IMPERIAL OIL PROP INC
Battery on: Jun 7, 2001 at 09:00:00
Notes:RECOVERED 40' SOW&GCM, 62' O&WCGM, 62' O&WCGM

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WICHITA, KS



Tag	Pressure	Temperature	Comment
1	2359.61 psig	109.57 °F	2001-06-07 11:20:30
2	33.18 psig	110.63 °F	2001-06-07 11:26:00
3	43.56 psig	113.54 °F	2001-06-07 11:53:30
4	1149.13 psig	115.19 °F	2001-06-07 12:53:00
5	58.45 psig	115.19 °F	2001-06-07 12:55:30
6	72.17 psig	117.37 °F	2001-06-07 13:54:30
7	910.86 psig	118.89 °F	2001-06-07 14:54:30
8	2328.89 psig	119.00 °F	2001-06-07 14:56:30

(G) Final Closed-in Pressure ..... 910 ..... 911 ..... PSI
(H) Final Hydrostatic Mud ..... 2329 ..... 2329 ..... PSI

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Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Pawnee Effective Pay -- Ft. Ticket No. J1127

Date 6-08-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 5,075 ft. to 5,112 ft. Total Depth 5,112 ft.

Packer Depth 5,070 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 5,075 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 5,078 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 5,109 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 65 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.8 Water Loss 14.0 cc. Drill Pipe Length 5,049 ft. I.D. 3 1/2 in.

Chlorides 9,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 37 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 1½ mins.

2nd Open: Strong blow. Off bottom of bucket immediately. Gas to surface in 45 mins. (SEE GAS VOLUME REPORT)

Recovered 80 ft. of slightly gas & water cut mud = .592000 bbls. (Grind out: 5%-gas; 5%-water; 90%-mud)

Recovered 62 ft. of slightly gas cut muddy water = .458800 bbls. (Grind out: 5%-gas; 45%-mud; 50%-water)

Recovered 142 ft. of TOTAL FLUID = 1.050800 bbls.

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 7:10 A.M. P.M. Time Started Off Bottom 11:10 A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 2407 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 18 P.S.I. to (C) 30 P.S.I.

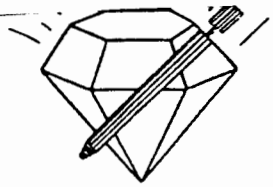
Initial Closed In Period ..... Minutes 60 (D) 1616 P.S.I.

Final Flow Period ..... Minutes 90 (E) 37 P.S.I. to (F) 68 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1487 P.S.I.

Final Hydrostatic Pressure ..... (H) 2404 P.S.I.

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CONSERVATION DIVISION
WICHITA, KS

GAS VOLUME REPORT

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Date 6-08-01 Sec. 16 Twp. 32 S Rge. 18 W Location C SE NE SW County Comanche State KS

Drilling Contractor VAL Energy, Inc. - Rig 2 Formation Pawnee DST No. 5

Remarks: 2nd Open: Gas to surface in 45 mins.
Gas did burn.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

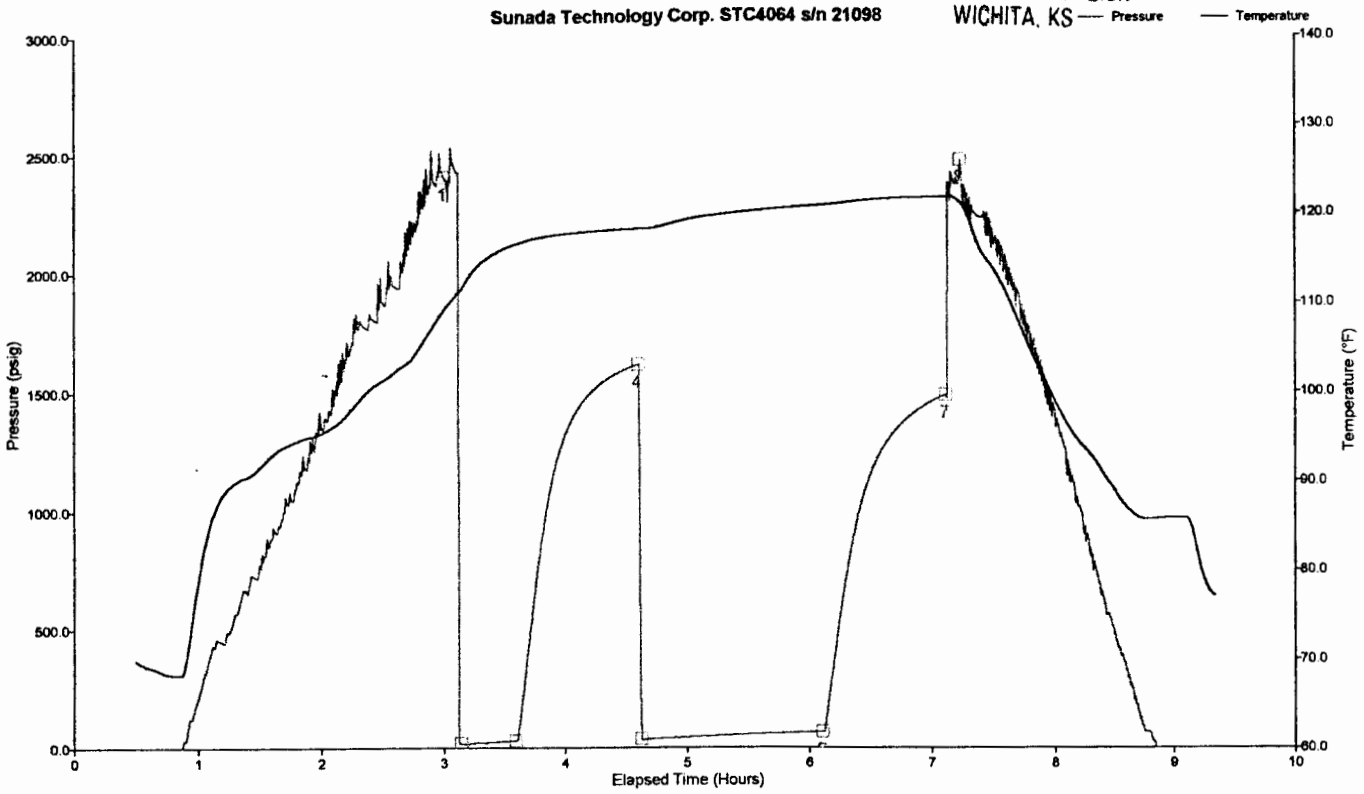
FINAL FLOW

Open Tool: 8:40 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
9:30 a.m	1/8 in.	5 in.	1,018
9:40 a.m.	1/8 in.	15 in.	2,005
9:50 a.m.	1/8 in.	25 in.	2,060
10:00 a.m.	1/8 in.	30 in.	2,090
10:10 a.m.	1/8 in.	35 in.	3,012

Well LSD: DST #5 5075'-5112'
Well Name: BERGNER 16-2
Company: IMPERIAL OIL PROP INC
Battery on: Jun 8, 2001 at 04:05:00
Notes:RECOVERED 80' SG&WCM, 62' SGCMW.

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Tag	Pressure	Temperature	Comment
1	2407.05 psig	109.31 °F	2001-06-08 07:05:00
2	17.51 psig	111.61 °F	2001-06-08 07:13:30
3	29.70 psig	116.65 °F	2001-06-08 07:40:30
4	1615.61 psig	118.30 °F	2001-06-08 08:41:00
5	36.90 psig	118.29 °F	2001-06-08 08:42:30
6	67.67 psig	120.91 °F	2001-06-08 10:12:00
7	1487.13 psig	121.84 °F	2001-06-08 11:12:00
8	2404.38 psig	121.24 °F	2001-06-08 11:19:00

(G) Final Closed-in Pressure ..... 1487 1487 PSI

(H) Final Hydrostatic Mud ..... 2404 2404 PSI

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DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Cherokee Effective Pay -- Ft. Ticket No. J1128

Date 6-09-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 6 Interval Tested from 5,126 ft. to 5,160 ft. Total Depth 5,160 ft.

Packer Depth 5,121 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 5,126 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 5,129 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 5,157 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 52 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length 5,105 ft. I.D. 3 1/2 in.

Chlorides 10,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 29 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 20 secs. Gas to surface in 13 mins.
2nd Open: Strong blow. Off bottom of bucket immediately. Gas to surface throughout. (SEE GAS VOLUME REPORT)

Recovered 90 ft. of slightly gas & water cut mud = .666000 bbls. (Grind out: 10%-gas; 5%-water; 85%-mud)

Recovered 62 ft. of slightly gas cut watery mud = .458800 bbls. (Grind out: 5%-gas; 25%-water; 70%-mud)

Chlorides: 55,000 Ppm

Recovered 152 ft. of TOTAL FLUID = 1.124800 bbls.

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 2:05 A.M. P.M. Time Started Off Bottom 5:35 A.M. P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure ..... (A) 2456 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 42 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 706 P.S.I.

Final Flow Period ..... Minutes 60 (E) 43 P.S.I. to (F) 83 P.S.I.

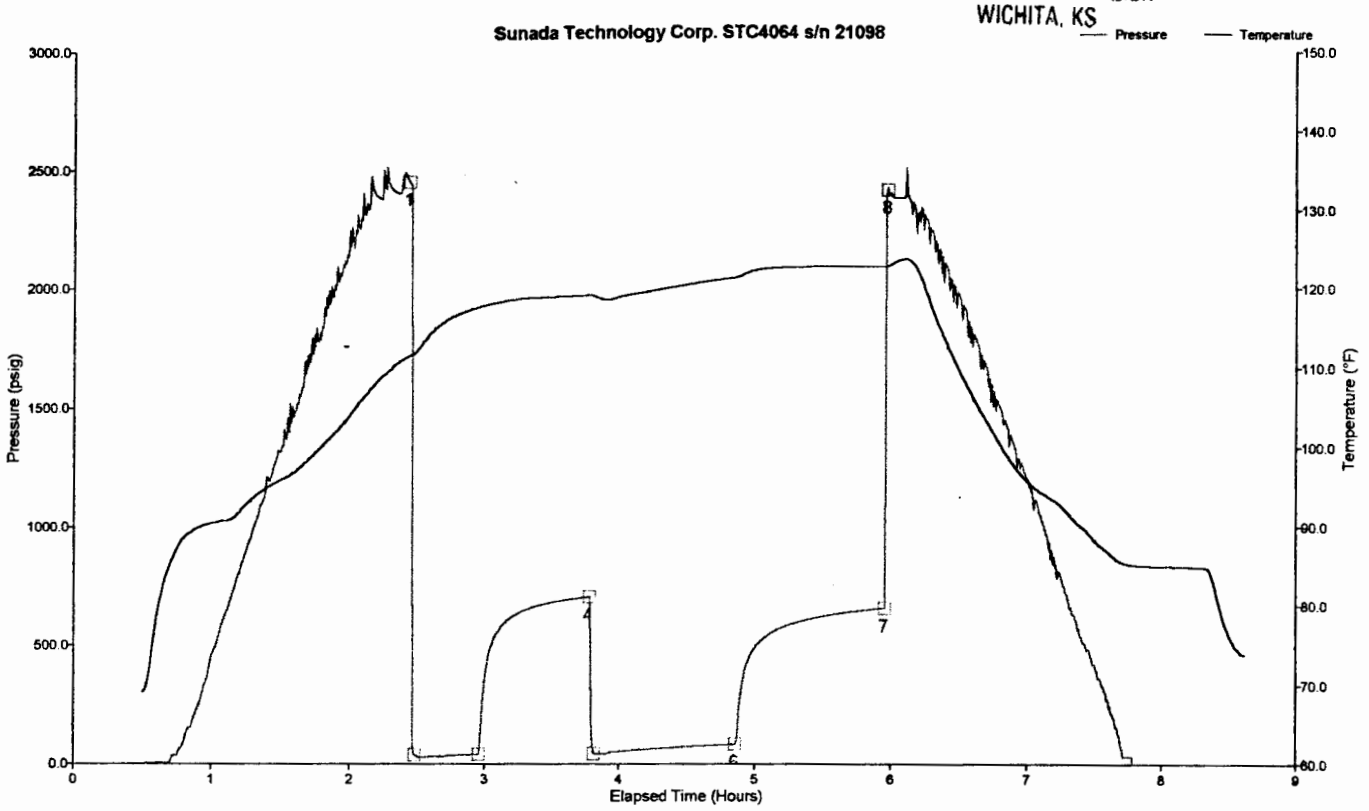
Final Closed In Period ..... Minutes 60 (G) 657 P.S.I.

(H) 2427 P.S.I.

Memo1

Well LSD:	DST NO 6 CHEROKEE 5126-5160
Well Name:	BERGNER 16-2
Company:	IMPERIAL OIL PROPERTIES
Battery on:	Jun 9, 2001 at 23:24:00
Notes:	REC 90' SGCWM 62' SLGCWM

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Memo2

Tag	Pressure	Temperature	Comment
1	2455.83 psig	111.71 °F	2001-06-10 01:50:30
2	36.81 psig	112.09 °F	2001-06-10 01:53:00
3	41.59 psig	117.84 °F	2001-06-10 02:21:30
4	705.92 psig	119.28 °F	2001-06-10 03:11:00
5	42.52 psig	119.19 °F	2001-06-10 03:13:00
6	82.90 psig	121.45 °F	2001-06-10 04:15:30
7	657.27 psig	122.84 °F	2001-06-10 05:21:30
8	2417.26 psig	122.95 °F	2001-06-10 05:23:00

(H) Final Hydrostatic Mud ..... PSI

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DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550

GAS VOLUME REPORT

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Date 6-09-01 Sec. 16 Twp. 32 S Rge. 18 W Location C SE NE SW County Comanche State KS

Drilling Contractor VAL Energy, Inc. - Rig 2 Formation Cherokee DST No. 6

Remarks: 1st Open: Gas to surface in 13 mins.
2nd Open: Gas to surface throughout.

Gas sample taken on 2nd Open.

INITIAL FLOW

Open Tool: 2:05 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
2:25 a.m	½ in.	25 in.	31,000
2:30 a.m.	½ in.	20 in.	28,000
2:35 a.m	½ in.	13 in.	22,800

FINAL FLOW

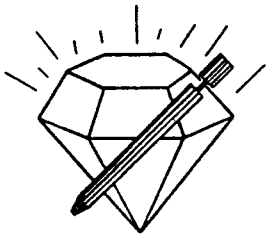
Open Tool: 3:35 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
3:45 a.m	3/8 in.	22 in.	16,700
3:55 a.m	3/8 in.	20 in.	15,900
4:05 a.m	3/8 in.	16 in.	14,200
4:15 a.m	3/8 in.	13 in.	12,900
4:25 a.m	3/8 in.	13 in.	12,900
4:35 a.m	3/8 in.	13 in.	12,900

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DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550

Company Imperial Oil Properties, Inc. Lease & Well No. Bergner No. 16-2

Elevation 2141 KB Formation Mississippi Effective Pay -- Ft. Ticket No. J1129

Date 6-09-01 Sec. 16 Twp. 32S Range 18W County Comanche State Kansas

Test Approved By Jon T. Williams, Jr. Diamond Representative John C. Riedl

Formation Test No. 7 Interval Tested from 5,188 ft. to 5,207 ft. Total Depth 5,207 ft.

Packer Depth 5,183 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 5,188 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 5,191 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 5,204 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor VAL Energy, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 11.0 cc. Drill Pipe Length 5,162 ft. I.D. 3 1/2 in.

Chlorides 11,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 19 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1 in., blow.
2nd Open: Weak, 1½ in., blow. Lost mud 10 mins. into flow. Reset packers. Shut-in tool no help.

Recovered 190 ft. of drilling mud = 1.406000 bbls. (Grind out: 3%-water; 97%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 10:00 ~~A~~P.M. Time Started Off Bottom 11:45 ~~A~~P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure ..... (A) 2452 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 11 P.S.I. to (C) 14 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 125 P.S.I.

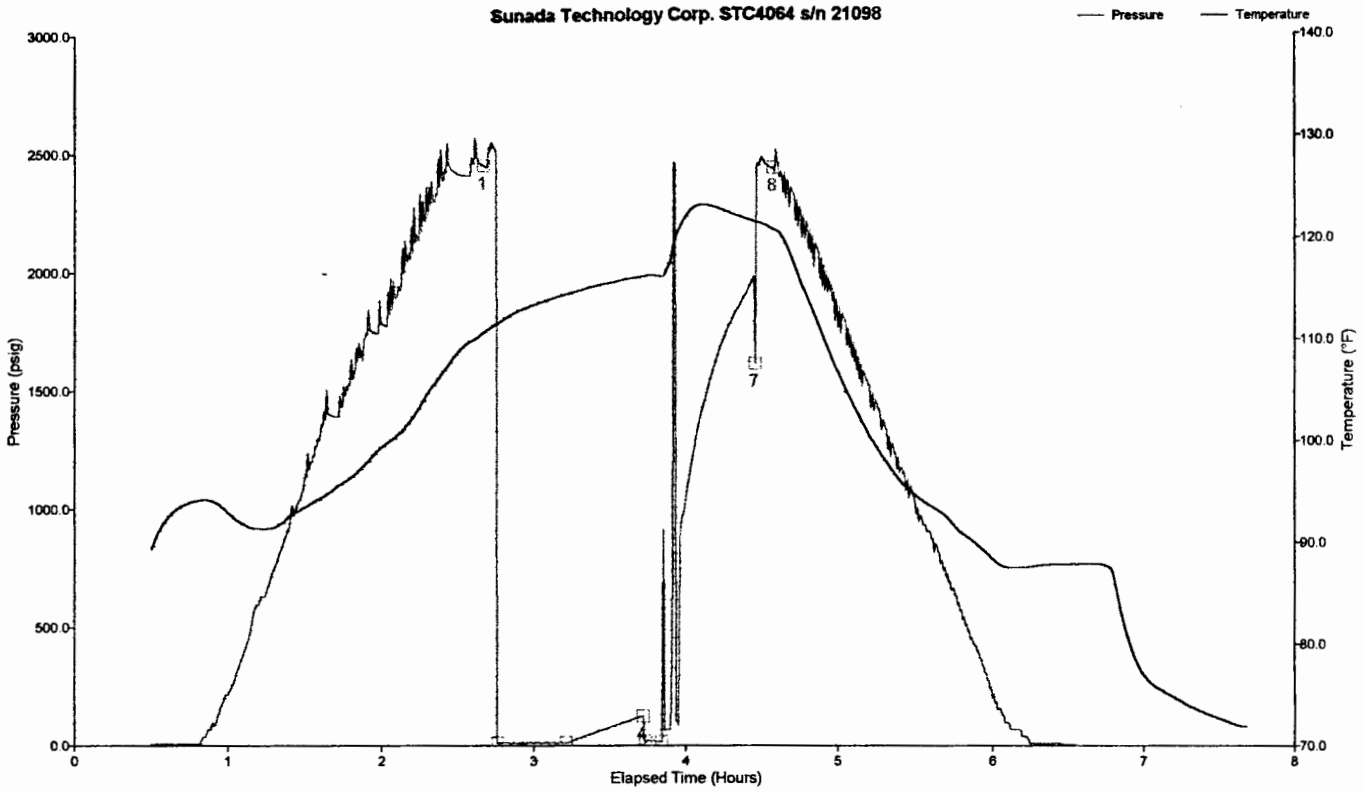
Final Flow Period ..... Minutes 15 (E) 19 P.S.I. to (F) 17 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 1612 P.S.I.

Final Hydrostatic Pressure ..... (H) 2437 P.S.I.

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WICHITA, KS

Well LSD: DST 7 MISS 5188-5207
Well Name: BERGNER 16-2
Company: IMPERIAL OIL PROP INC
Battery on: Jun 9, 2001 at 19:11:00
Notes: REC. 190' DRILLING MUD



Tag	Pressure	Temperature	Comment
1	2452.49 psig	110.83 °F	2001-06-09 21:51:00
2	11.13 psig	111.79 °F	2001-06-09 21:57:00
3	13.53 psig	114.58 °F	2001-06-09 22:24:00
4	124.88 psig	116.28 °F	2001-06-09 22:54:00
5	18.96 psig	116.31 °F	2001-06-09 22:55:00
6	17.18 psig	116.28 °F	2001-06-09 23:01:30
7	1612.80 psig	121.64 °F	2001-06-09 23:38:30
8	2437.08 psig	120.92 °F	2001-06-09 23:45:30

(H) Final Hydrostatic Mud ..... 2437 ..... 2437 ..... PSI