TIGHT HOLE

SIDE ONE

CONFIDENTIAL

MAR 25 1991

FROM CONFIDENTIAL

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

API NO. 15- 173-01,025 0001 03-25-91

County Sedgwick

SW NE NW Sec. 36 Twp. 28 Rge. 1 ___ East X West

4290' Ft. North from Southeast Corner of Section

3630' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

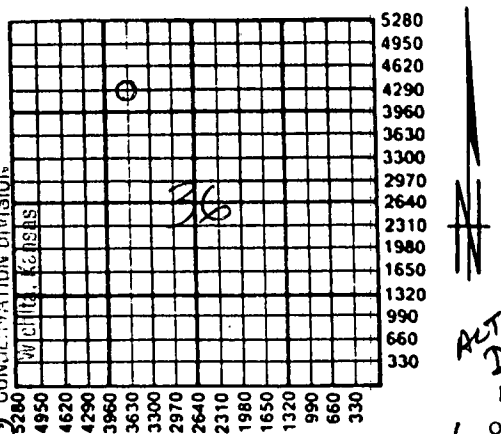
Lease Name Hay Well # 1 OWWO

Field Name Gladys

Producing Formation D & A

Elevation: Ground 1916' KB 1921'

Total Depth 3675' PBTD



RECEIVED
STATE CORPORATION COMMISSION
MAR 12 1990
CONSERVATION Division
Wichita, Kansas

03-12-90

ACT I D&A 12-9-90

Operator: License # 4569

Name: Jay Boy Oil, Inc.

Address 224 E. Douglas #425

City/State/Zip Wichita, Kansas 67202

Purchaser: D & A

Operator Contact Person: Gary Sharp

Phone (316) 264-3700

Contractor: Name: Allen Drilling Co.

License: 5418

Wellsite Geologist: Ken Greenwood

Designate Type of Completion
___ New Well X Re-Entry ___ Workover

___ Oil ___ SWD ___ Temp. Abd.
___ Gas ___ Inj ___ Delayed Comp.
X Dry ___ Other (Core, Water Supply, etc.)

If OWWO: old well info as follows:
Operator: Shawver/Amour

Well Name: #3 Hay

Comp. Date 2/56 Old Total Depth 3300'

old hole

Amount of Surface Pipe Set and Cemented at 198' Feet

Multiple Stage Cementing Collar Used? ___ Yes ___ No

If yes, show depth set ___ Feet

If Alternate II completion, cement circulated from ___

feet depth to ___ w/ ___ sx cmt.

Drilling Method:
X Mud Rotary ___ Air Rotary ___ Cable

01/06/90	01/09/90	01/10/90
Spud Date	Date Reached TD	Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Joni Alcott

Title Operations Secretary Date 2/5/90

Subscribed and sworn to before me this 5th day of February, 19 90.

Notary Public Betty B. Herring
Betty B. Herring

Date Commission Expires 10-07-93

BETTY B. HERRING
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10-07-93

K.C.C. OFFICE USE ONLY
C Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution
✓ KCC ___ SWD/Rep ___ NGPA
___ KGS ___ Plug ___ Other (Specify)

Form ACO-1 (7-89)

SIDE TWO

Operator Name Jay Boy Oil, Inc. Lease Name Hay Well # 1 OWWO

Sec. 36 Twp. 28 Rge. 1 ☐ East ☒ West County Sedgwick

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 (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

DST #1: (Simp 'A' Sand) 3550-3630'/
30-30-30-30
Rec: 25' drlg. mud w/Tr O
SIP: 1217 - 1101#
FP: 69-69; 69-69#
HP: 1883-1837#
DST's continued.

Formation Description

☒ Log ☐ Sample

FROM CONFIDENTIAL

Name	Top	Bottom
Heebner	2121	(-821)
Brn Lime	2375	(-1075)
KC	2716	(-1416)
BKC	2915	(-1615)
Miss Unc.	3252	(-1952)
Kh	3552	(-2252)
Simpson	3623	(-2323)

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
	None	Set - OWWO					

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First Production	Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION ☐ Open Hole ☐ Perforation ☐ Dually Completed ☐ Commingled ☐ Other (Specify) _____

Production Interval _____

ORIGINAL

Jay Boy Oil, Inc.

DST's Continued - Hay #1 OWWO

DST #2: (Simp 'B' Sand) 3550-3650/
30-60-30-60
REC: 5' SOCM, 60' VSOCM
SIP: 1562 - 1493#
FP: 69-69; 92-92#
HP: 1906 - 1871#

DST #3: (Simp 'C' Sand) 3660-75/
30-60-30-60
REC: 50'WCM
SIP: 1366-1332#
FP: 58-58; 69-69#
HP: 1894-1883#

ORIGINAL

Ricketts Testing

Company JAY BOY OIL, INC. Lease & Well No. HAY #1

Elevation 1921 K.B. Formation SIMPSON Effective Pay ____ ft. Ticket No. 1355

Date 1-8-90 Sec. 36 Twp. 28 Range 1W County SEDGWICK State KANSAS

Test Approved by JAY ABLAH Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 3550 ft. to 3630 ft. Total Depth 3630 ft.

Packer Depth 3550 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 3547 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3555 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 3627 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____

Drilling Contractor Allen Drilling Rig #2 Drill Collar Length ____ I.D. ____ in.

Mud Type Starch Viscosity 50 Weight Pipe Length ____ I.D. ____ in.

Weight 9.5 Water Loss 8.0 cc. Drill Pipe Length 3530 I.D. 3.25 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 80 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Very weak blow Initial Flow Period. Died in 20 minutes.

No blow Final Flow Period.

Recovered 25 ft. of Mud.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time Set Packer (s) 6:40 ~~A.M.~~ P.M. Time Started Off Bottom 8:48 ~~P.M.~~ P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure ..... (A) 1876 P.S.I.

Initial Flow Period ..... Minutes 40 (B) 75 P.S.I. to (C) 75 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1219 P.S.I.

Final Flow Period ..... Minutes 30 (E) 75 P.S.I. to (F) 75 P.S.I.

Final Closed In Period ..... Minutes 27 (G) 1115 P.S.I.

Final Hydrostatic Pressure ..... (H) 1843 P.S.I.

RICKETTS TESTING
Pressure Data

Date 1-8-90 Test Ticket No 1355

Recorder No 13307 Capacity 4650 Location 3555 Ft.

Clock No Elevation 1921 K.B. Well Temperature 110 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1876	P.S.I.
B	First Initial Flow Pressure	75	P.S.I.
C	First Final Flow Pressure	75	P.S.I.
D	Initial Closed-in Pressure	1219	P.S.I.
E	Second Initial Flow Pressure	75	P.S.I.
F	Second Final Flow Pressure	75	P.S.I.
G	Final Closed-in Pressure	1115	P.S.I.
H	Final Hydrostatic Mud	1843	P.S.I.

	Time Given	Time Computed
Open Tool	6:40 P M	
First Flow Pressure	38 Mins	40 Mins.
Initial Closed-in Pressure	30 Mins	30 Mins.
Second Flow Pressure	30 Mins	30 Mins.
Final Closed-in Pressure	30 Mins	27 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point	Mins.	Press.
P 1	0	75
P 2	5	75
P 3	10	75
P 4	15	75
P 5	20	75
P 6	25	75
P 7	30	75
P 8	35	75
P 9	40	75
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point	Minutes	Press.
	0	75
	3	115
	6	317
	9	482
	12	659
	15	791
	18	916
	21	1023
	24	1113
	27	1184
	30	1219
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point	Minutes	Press.
	0	75
	5	75
	10	75
	15	75
	20	75
	25	75
	30	75
	35	
	40	
	45	
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point	Minutes	Press.
	0	75
	3	99
	6	243
	9	389
	12	561
	15	682
	18	807
	21	919
	24	1020
	27	1115
	30	
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

ORIGINAL

Ricketts Testing

Company JAY BOY OIL, INC. Lease & Well No. HAY #1

Elevation 1921 K.B. Formation SIMPSON SAND Effective Pay ____ ft. Ticket No. 1356

Date 1-9-90 Sec. 36 Twp. 28 Range 1W County SEDGWICK State KANSAS

Test Approved by K. GREENWOOD Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 3550 ft. to 3650 ft. Total Depth 3650 ft.

Packer Depth 3550 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 3547 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3555 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 3647 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____

Drilling Contractor Allen Drilling Rig #2 Drill Collar Length ____ I.D. ____ in.

Mud Type Starch Viscosity 50 Weight Pipe Length ____ I.D. ____ in.

Weight 9.5 Water Loss 8.0 cc. Drill Pipe Length 3530 I.D. 3.25 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 100 ft. Size 5½ in.

Did Well Flow? No Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Weak blow building to 2" in water Initial Flow Period.

Very weak blow Final Flow Period. 1/8" in water.

Recovered 5 ft. of Slightly oil cut mud. 3% Oil

Recovered 60 ft. of Very slightly oil cut mud. Less than 1% oil.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

FROM CONFIDENTIAL

Time Set Packer (s) 7:54 A.M. P.M. Time Started Off Bottom 10:54 A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 1902 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 62 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period ..... Minutes 57 (D) 1503 P.S.I.

Final Flow Period ..... Minutes 30 (E) 88 P.S.I. to (F) 88 P.S.I.

Final Closed In Period ..... Minutes 57 (G) 1442 P.S.I.

Final Hydrostatic Pressure ..... (H) 1877 P.S.I.

ORIGINAL

RICKETTS TESTING
Pressure Data

Date 1-9-90 Test Ticket No. 1356

Recorder No. 13307 Capacity 4650 Location 3555 Ft.

Clock No. Elevation 1921 K.B. Well Temperature 117 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1902	P.S.I.
B	First Initial Flow Pressure	62	P.S.I.
C	First Final Flow Pressure	62	P.S.I.
D	Initial Closed-in Pressure	1503	P.S.I.
E	Second Initial Flow Pressure	88	P.S.I.
F	Second Final Flow Pressure	88	P.S.I.
G	Final Closed-in Pressure	1442	P.S.I.
H	Final Hydrostatic Mud	1877	P.S.I.

	Time Given	Time Computed
Open Tool	7:54 A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	57 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	60 Mins.	57 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point	Mins.	Press.
P 1	0	62
P 2	5	62
P 3	10	62
P 4	15	62
P 5	20	62
P 6	25	62
P 7	30	62
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	62
3	180
6	196
9	986
12	1113
15	1203
18	1260
21	1304
24	1334
27	1364
30	1385
33	1406
36	1424
39	1440
42	1451
45	1465
48	1474
51	1484
54	1493
57	1503
60	

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	88
5	88
10	88
15	88
20	88
25	88
30	88
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	88
3	187
6	668
9	932
12	1080
15	1168
18	1224
21	1270
24	1302
27	1327
30	1348
33	1366
36	1383
39	1394
42	1403
45	1409
48	1417
51	1426
54	1433
57	1442
60	

ORIGINAL

Ricketts Testing

Company JAY BOY OIL, INC. Lease & Well No. HAY #1

Elevation 1921 K.B. Formation SIMPSON SAND Effective Pay ____ ft. Ticket No. 1357

Date 1-9-90 Sec. 36 Twp. 28 Range 1W County SEDGWICK State KANSAS

Test Approved by K. GREENWOOD Ricketts Representative JIM RICKETTS

Formation Test No. 3 Interval Tested from 3660 ft. to 3675 ft. Total Depth 3675 ft.

Packer Depth 3660 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 3657 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3665 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 3668 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____

Drilling Contractor Allen Drilling Rig #2 Drill Collar Length ____ I.D. ____ in.

Mud Type Starch Viscosity 48 Weight Pipe Length ____ I.D. ____ in.

Weight 9.5 Water Loss 8.0 cc. Drill Pipe Length 3640 I.D. 3.25 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 15 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Weak blow Initial Flow Period. ¼" in water

Very weak blow Final Flow Period. 1/8" in water.

Recovered 50 ft. of Water cut mud.

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks: ____

RELEASED

MAR 25 1991

FROM CONFIDENTIAL

Time Set Packer (s) 8:08 ~~A.M.~~ P.M. Time Started Off Bottom 11:08 ~~A.M.~~ P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure ..... (A) 1903 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 51 P.S.I. to (C) 51 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1364 P.S.I.

Final Flow Period ..... Minutes 30 (E) 74 P.S.I. to (F) 74 P.S.I.

Final Closed In Period ..... Minutes 57 (G) 1333 P.S.I.

Final Hydrostatic Pressure ..... (H) 1892 P.S.I.

ORIGINAL

RICKETTS TESTING
Pressure Data

Date 1-9-90 Test Ticket No 1357

Recorder No 13307 Capacity 4650 Location 3665 Ft.

Clock No Elevation 1921 K.B. Well Temperature 121 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1903 P.S.I.		Open Tool	8:08 P M	
B	First Initial Flow Pressure	51 P.S.I.		First Flow Pressure	30 Mins	30 Mins.
C	First Final Flow Pressure	51 P.S.I.		Initial Closed-in Pressure	60 Mins	60 Mins.
D	Initial Closed-in Pressure	1364 P.S.I.		Second Flow Pressure	30 Mins	30 Mins.
E	Second Initial Flow Pressure	74 P.S.I.		Final Closed-in Pressure	60 Mins	57 Mins.
F	Second Final Flow Pressure	74 P.S.I.				
G	Final Closed-in Pressure	1333 P.S.I.				
H	Final Hydrostatic Mud	1892 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of ____ Min.

Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Final Shut-In
Breakdown: 19 Inc. of 3 mins. and a final inc. of ____ Min.

Point	First Flow Pressure Mins.	Press.	Initial Shut-In Point Minutes	Press.	Second Flow Pressure Point Minutes	Press.	Final Shut-In Point Minutes	Press.
P 1	0	51	0	51	0	74	0	51
P 2	5	51	3	847	5	74	3	782
P 3	10	51	6	1067	10	74	6	1000
P 4	15	51	9	1134	15	74	9	1092
P 5	20	51	12	1166	20	74	12	1141
P 6	25	51	15	1212	25	74	15	1177
P 7	30	51	18	1237	30	74	18	1207
P 8	35		21	1256	35		21	1224
P 9	40		24	1272	40		24	1242
P10	45		27	1284	45		27	1254
P11	50		30	1295	50		30	1265
P12	55		33	1304	55		33	1277
P13	60		36	1313	60		36	1286
P14	65		39	1323	65		39	1295
P15	70		42	1332	70		42	1300
P16	75		45	1337	75		45	1307
P17	80		48	1343	80		48	1316
P18	85		51	1350	85		51	1323
P19	90		54	1356	90		54	1327
P20	95		57	1360			57	1333
			60	1364			60	

Jay Boy Oil, Inc.

Suite 425
224 E. Douglas
Wichita, Kansas 67202
Office - (316) 264-3700

JAY BOY OIL, INC.
#1 Hay 'OWWO'
Sec.36-T28S-R1W
SW NE NW

Contractor: Allen Drlg.; Rig #2
API#: 15-173-01,025
Sedgwick County, Kansas

==========

1/07/90 Currently circulating at 2500' to condition hole. Will drill ahead shortly. Commenced washdown at 10:00 p.m., 1/06/90.

1/08/90 Drilling at 3548'. Began new hole at 10:00 p.m., 1/07/90.

1/09/90 Running DST#2: 3550-3650(Simp 'B' Sand). Ran DST#1: 3550-3630(Simp 'A' Sand)/30-30-30-30, Rec. 25' Drlg Mud, SIP 1217-1101#, FP 69-69; 69-69#, HP 1883-1837#, BHT: 110° F.

1/10/90 Ran Open-hole logs. Decision made to plug and abandon at 6:00 a.m.. Ran DST#2: 3550-3650 (Simp 'B' Sand)/30-60-30-60, Rec. 5' SOCM (3% Oil), 60' VSOCM (1% Oil), SIP 1562-1493#, FP 69-69; 92-92#, HP 1906-1871#, BHT: 117° F. Ran DST#3: 3660-75 (Simp 'C' Sand)/30-60-30-60, Rec. 50' WCM, SIP 1366-1332#, FP 58-58; 69-69#, HP 1894-1883#, BHT: 121° F.

LOG TOPS

Heebner	2121	(- 821)
Brown Lime	2375	(-1075)
Kansas City	2716	(-1416)
BKC	2915	(-1615)
Cherokee Shale	3122	(-1822)
Miss. Unc.	3252	(-1952)
Kinderhook Sh.	3552	(-2252)
Simp. Unc.	3623	(-2323)