API No. 15-065-430-00 - 00
County: Graham
S/A, N/A, Sec. 7, Twp. 66, Rge. 21
West
4600 Ft North from Southeast Corner of Section
4700 Ft West from Southeast Corner of Section
(Note: Locate well in section plot below)
Lease Name: Harvey
Field Name: Bannack West-Pett	Huntington A
Producing Formation: Lansing/Kansas City
Elevation: Ground

Section Plot

5290
4950
4620
4290
3960
3630
3300
2970
2640
2310
2010
1800
1650
1520
1390
1260
1130
990
860
730

WATER SUPPLY INFORMATION
Disposition of Produced Water: X Disposal
Docket # C-20,496

Questions on this portion of the AOD-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #.

Groundwater
Feet North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge
East
West

Surface Water
Feet North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge
East
West

Other (explain)

(purchased from city, R.W.O. #)

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. Submit OP-4 form with all plugged wells. Submit CP-11 forms 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
Richard A. Hishebach
Title
Chairman
Date

Subscribed and sworn to before me this day of...
Notary Public

Date Commission Expires

JULIE K. STOUT
STATE OF KANSAS
My Appt Exp. 1/1/89

KCC: OFFICE USE ONLY

Letter of Confidentiality Attached

Drillers TimeLog Received

Distribution

(Specify)

Form AOD-1 15-86)
### WELL LOG

**Drill Stem Tests Taken**

- Yes [ ]
- No [ ]

**Samples Sent to Geological Survey**

- Yes [ ]
- No [ ]

**Cores Taken**

- Yes [ ]
- No [ ]

**Formation Description**

<table>
<thead>
<tr>
<th>Name</th>
<th>Top Bottom</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anhydrite</td>
<td>1860 (+349)</td>
<td></td>
</tr>
<tr>
<td>Oread</td>
<td>3369 (-1160)</td>
<td></td>
</tr>
<tr>
<td>Heebner</td>
<td>3411 (-1202)</td>
<td></td>
</tr>
<tr>
<td>Toronto</td>
<td>3438 (-1229)</td>
<td></td>
</tr>
<tr>
<td>Lansing</td>
<td>3455 (-1246)</td>
<td></td>
</tr>
<tr>
<td>B/Kansas City</td>
<td>3646 (-1437)</td>
<td></td>
</tr>
<tr>
<td>Arbuckle/Dolomite</td>
<td>3716 (-1507)</td>
<td></td>
</tr>
<tr>
<td>LTD</td>
<td>3727 (-1518)</td>
<td></td>
</tr>
</tbody>
</table>

**DST No. 1 3358-3391**

- 30" 45" 30" 45"
- 1st open: Strong blow in 4 min.
- 2nd open: Strong blow in 5 min.

**Rec.**

- 440' GFP
- 1140' POC
- 60' MOC (65% oil, 35% mud)
- 60' OCM (25% oil, 75% mud)

**IPF**

- 180-328#
- 444-497#

**ISIP 989#**

- FSIP 989# BHT 112

**DST No. 2 3398-3470**

- 30" 45" 35" 60"
- 1st open: Weak increasing to off bottom blow
- 2nd open: Weak increasing to strong blow

**Rec.**

- 311' Fluid
- 11' OCM (3% oil, 97% mud)
- 60' OCM (25% oil, 75% mud)
- 240' MOC (65% oil, 34% mud, 1 water)

**IPF**

- 116-158#
- FFP 190-201# ISIP 328# PSIP BHT 112

---

### CASING RECORD

- New [ ] Used [ ]

**Purpose of String**

- Drilled [ ] Set (in O.D.) [ ]

**Size Hole**

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole</th>
<th>Size Casing</th>
<th>Weight Lbs./ft.</th>
<th>Setting Type of</th>
<th>Depth</th>
<th>Type and Percent</th>
<th>Type and Percent</th>
<th>Additives</th>
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<tbody>
<tr>
<td>Average</td>
<td>7 1/4&quot;</td>
<td>8 3/8&quot;</td>
<td>240</td>
<td>240.11</td>
<td>60/20</td>
<td>4400-4900</td>
<td>10.20</td>
<td>10.20</td>
</tr>
<tr>
<td>Production</td>
<td>4 7/16&quot;</td>
<td>10 3/4&quot;</td>
<td>270</td>
<td>330.11</td>
<td>60/20</td>
<td>4400-4900</td>
<td>10.20</td>
<td>10.20</td>
</tr>
<tr>
<td>Top stage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**PERFORATION RECORD**

- Acids, Fracture, Shot, Cement Squeeze Record
- Amount and Kind of Material Used

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>Specify Footage of Each Interval Perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TUBING RECORD**

- Size Set At 2 7/8" 3681.66 N/A

**Date of First Production**

- Producing Method
  - Flowing [ ] Pumping [ ] Gas Lift [ ] Other (explain): [ ]

**Estimated Production**

- Per 24 Hours
  - Oil 80 Bbls
  - Gas 0 MCF
  - Water 15 Bbls
  - Gas-Oil Ratio N/A
  - Gravity CFFPB

### METHODS OF COMPLETION

- Production Interval
  - Disposition of gas
    - Vented [ ]
    - Sold [ ]
    - Used on Lease [ ]
  - Open Hole [ ]
  - Other (Specify): [ ]
  - Perforation [ ]
  - See perforation record [ ]
  - Commingled [ ]

---
Drill Stem Tests (continued)

DST No. 3  3468-3512
30'  45'  45'  45'
1st open: Weak blow in 2 min.
2nd open: Weak blow in 2 min.
Rec: 65' OCM (30% oil, 70% mud)
IFP  105-105#  FFP  105-105#
ISIP  328#  FSIP  243#

DST No. 4  3509-3538
30'  30'  15'  15'
1st open: Weak blow
2nd open: No blow, flushed tool, no help
Rec:  5' Mud
IFP  74-74#  FFP  74-84#
ISIP  74#  FSIP none

DST No. 5  3549-3620
45'  45'  45'  45'
1st open: Weak increasing to fair
2nd open: Weak increasing to fair
Rec:  130' GIP
     110' OCM (45% oil, 55% mud)
IFP  116-116#  FFP  127-127#
ISIP  550#  FSIP  494#
February 1, 1989

Kansas Corporation Commission
Conservation Division
200 Colorado Derby Bldg.
202 W. 1st Street
Wichita, Kansas 67202

Attn: Kathleen K. Carlisle

Re: Harvey No. 5
Section 7-T6S-R21W
Graham County, Kansas

Dear Ms. Carlisle:

Per your recent request, a copy of which is enclosed, we are submitting a copy of the cementing bill from BJ-Titan Services Company for our Harvey No. 5 well. As you can see from the invoice, the well was two-staged at the time of setting production casing using 325 sacks of Class A cement through an Arrow DV tool.

If you are in need of additional information to satisfy the Alternate 2 cementing requirements, please let me know.

Sincerely,

Richard A. Hiebsch
Vice President

RAH/jks
enclosures

RECEIVED
STATE CORPORATION COMMISSION
FEB 2 1989

CONSERVATION DIVISION
Wichita, Kansas
**LEASE NAME AND NUMBER**: HARVEY 15

**JOB LOCATION/FIELD**: LEON一只手

**MTA DISTRICT**: HAYES

**DATE OF JOB**: 11/11/88

**TYPE OF SERVICE**: LAND-LONG STRING/PRODUC

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>UNIT PRICE</th>
<th>QTY</th>
<th>EXTENDED PRICE</th>
</tr>
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<tbody>
<tr>
<td>10100315</td>
<td>1.00</td>
<td>CEMENTING CASING 1500 TO 3000</td>
<td>879.00</td>
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<tr>
<td>10100325</td>
<td>7.26</td>
<td>PLUS PER 100 FT. BELOW 3000 FT</td>
<td>9.80</td>
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<td>71.15</td>
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<td>10109005</td>
<td>80.00</td>
<td>MILEAGE CHRG, FROM NEAREST BAS</td>
<td>1.10</td>
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<td>88.00</td>
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<tr>
<td>10101501</td>
<td>1.00</td>
<td>ADD STAGES, CONTINUOUS OR INTRE</td>
<td>695.00</td>
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<tr>
<td>10410504</td>
<td>325.00</td>
<td>CLASS &quot;A&quot; CEMENT</td>
<td>5.30 CF</td>
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<td>1,722.50</td>
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<td>10415018</td>
<td>200.00</td>
<td>DIAMIX F</td>
<td>2.61 CF</td>
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<td>10420145</td>
<td>34.07</td>
<td>BJ-TITAN GEL, BENTONITE, BULK</td>
<td>6.75 CW</td>
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<td>229.97</td>
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<td>10415049</td>
<td>88.00</td>
<td>A-7-P CALCIUM CHLORIDE PELLETS</td>
<td>0.33 LB</td>
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<td>10428020</td>
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<td>A-10 GYPSEAL</td>
<td>14.60 CW</td>
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<td>A-5 SALT</td>
<td>7.30 CW</td>
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<td>10425010</td>
<td>300.00</td>
<td>MUD-SWEEP, WITH BJ-TITAN PUMPING EQ</td>
<td>1.45 GL</td>
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<td>435.00</td>
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<td>10409600</td>
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<td>GUIDE SHOE - 4 1/2 CSG</td>
<td>93.60 GL</td>
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<td>CENTRALIZERS - 4 1/2</td>
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<tr>
<td>10409600</td>
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<td>BASKET - 4 1/2</td>
<td>108.00 GL</td>
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<tr>
<td>10409600</td>
<td>20.00</td>
<td>REC. SCRATCHERS 4 1/2</td>
<td>14.40 GL</td>
<td></td>
<td>288.00</td>
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</table>
## BJ-TITAN SERVICES COMPANY

**DIRECT BILLING INQUIRIES TO:**
713-895-5821

**NET AMOUNT DUE**
30 DAYS FROM
DATE OF INVOICE

**REMIT TO:**
BJ-TITAN SERVICES
P.O. BOX 200416
HOUSTON, TX 77216

---

**VINCENT OIL CORPORATION**
KANSAS STATE BANK BUILDING
WICHITA, KS 67202

**WELL NUMBER:** 5

**CUSTOMER NUMBER:** 02635008

---

**LEASE NAME AND NUMBER:** HARVEY

**STATE:** 15

**COUNTY/PARISH:**

**CITY:** HAYES

**DISTRICT NAME:**

**DISTRICT NO.:** 3370

**JOB LOCATION/FIELD:**

**MTA DISTRICT:**

**DATE OF JOB:** 11/11/88

**TYPE OF SERVICE:** LAND-LONG STRING/PRODUC

---

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>UNIT PRICE</th>
<th>U/M</th>
<th>EXTENDED PRICE</th>
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<td>10409600</td>
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<td>GL</td>
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<td>10880085</td>
<td>525.00</td>
<td>MIXING CUSTOMERS MATERIALS, PER CUB</td>
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<td>10940101</td>
<td>1012.00</td>
<td>DRAYAGE, PER TON MILE</td>
<td>0.70</td>
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<td>708.40</td>
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</table>

**RECEIVED**
STATE CORPORATION COMMISSION
FEB 2 1900
CONSERVATION DIVISION
Wichita, Kansas

**ACCOUNT**
4.00000% STATE TAX
6800.03 272.00

**SUBTOTAL**
8,467.92

**DISCOUNT**
1,667.89

**PAY THIS AMOUNT**
7,072.03

---

**AUTHORIZED BY:**
514754

**PURCH. ORDER REF. NO.:**