

10-22-8W

# HINKLE OIL COMPANY

## DRILLING REPORT

Computer Invented

10-22-8W  
NOV 12 1976

WELL NAME: Orvie Howell - Sunset Motel #1 Snook  
Sterling - AC 316-278-3291 C S/2 NW SW  
Sec. 10-22S-8W  
Reno County, Kansas

CONTRACTOR: Search Drilling Co.

ELEVATION: 1666 GL 1676 RB

### Sterling South Prospect

7-26-76 M.I.R.T. Set 8 5/8" surface casing @254' with 200 sx cement.  
7-27-76 KRIDER 1245 (+431) WINFIELD 1300 (+376) TOWANDA 1365 (+311)  
15 unit gas kick in Herington; 27 to 45 unit gas kick in Krider  
DST #1 (1190-1300) Open: 30" - 30" - 30" - 30". Recovery - 40' mud.  
IBHP: 152# IFP: 98# FFP: 98# FBHP: 240#.

7-28-76 Ft. Riley Zone - 1380-1390 (25 unit gas kick)  
Ft. Riley Zone - 1430-1440 (50 unit gas kick)  
DST #2(1378-1445) Open: 35" - 30" - 140" - 45" Gas to surface 42" of  
second open period. 10 minute gauges:

10"	8.8 MCF
20"	9.31 MCF
30"	10.5 MCF
40"	10.9 MCF
50"	11.9 MCF
60"	12.5 MCF
70"	13.3 MCF

7-29-76 Recovery: 110' gassy mud. IBHP: 458# IFP: 65# FFP: 109# FBHP: 458#  
BASE FLORENCE FLINT 1510 (+166) RED EAGLE LIMESTONE 1860 (-184) Porosity  
1860/75 - 150 gas units. DST #3 (1850-81) Open: 30" - 30" - 40" - 30"  
Gas to surface in five minutes. Initial Opening

10"	654 MCF
20"	654 MCF
30"	654 MCF

### 2nd Opening

10"	709 MCF
20"	709 MCF
30"	709 MCF

Recovery - 62' gassy mud. IBHP: 717# IFP: 131# FFP: 196# FBHP: 696#  
Shut down to replace drawworks jump-out clutch.

7-30-76 INDIAN CAVE SAND ZONE 2005 (-329) Zone from 2005-2030 - 70 unit gas  
kick. DST #4 (1995-2035) Open: 30" - 30" - 30" - 30"; Gas to surface  
in one minute. Initial Opening

10"	1,886 MCF
20"	1,949 MCF
30"	1,949 MCF

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7-30-76

2nd Opening

10"	2,075 MCF
20"	2,075 MCF
30"	2,075 MCF

Recovered 100' gas cut mud. IBHP: 782# IFP: 480 FFP: 545# FBHP: 782#

7-31-76

STOTLER LIMESTONE 2148 (-472) DST #5 (2158-2200) Open: 45" - 30" - 45" - 30"; gas to surface in 15 minutes.

Initial Opening

10"	34.3 MCF
20"	41.0 MCF
30"	41.0 MCF

2nd Opening

10"	47.7 MCF
20"	47.7 MCF
30"	47.7 MCF

Recovery: 30' mud. IBHP: 739# IFP: 43# FFP: 65# FBHP: 631#  
TARKIO LIMESTONE 2215 (-539) HOWARD LIMESTONE 2370 (-694) SEVERY SAND zone 2450 (-774). Lost circulation @2469'. Severy sand zone very shaley; no clean sand developed in samples.

8-1-76

TOPEKA 2480 (-804) Upper Topeka porosity (Abbyville) 2515-2530; no porosity developed, appears to be all chalk. Lower Topeka porosity zone - 2720-2735 - fair porosity, abundance of gas bubbles, spotted fluorescence, scattered stain, 5 gas units.

8-2-76

DST #6 (2710-2748) Open: 30" - 30" - 60" - 30"; strong blow throughout. Recovery: 270' gassy muddy water. IBHP: 1082# IFP: 65# FFP: 152# FBHP: 1040#.

8-3-76

HEEBNER 2785 (-1109) 12' high to dry hole 330' west. BROWN LIME 2938 (-1262) 11' high to dry hole 330' west. Ø2943'.

8-4-76

LANSING 2960 (-1284) Porosity 3169-76, fair show of oil. DST #7 (3158-82) Open: 30" - 30"; Recovery: 20' mud. IFP 43# FFP 43#, FBHP 1168#.

8-5-76

DST #8 (3204-3258) Open 30" Shut In 30"; recovered 10' mud. IFP: 43# FFP: 43# FBHP: 131# Ø3258'.

8-6-76

RTD 3346 (-1670). Running Log. LOG TOPS:

Herington	1200 (+ 476)	Tarkio Limestone	2217 (- 541)
Krider	1246 (+ 430)	Howard	2369 (- 693)
Winfield	1300 (+ 376)	Severy Sand	2433 (- 757)
Towanda	1370 (+ 306)	Topeka	2481 (- 805)
Ft. Riley	1410 (+ 266)	Heebner	2786 (-1110)
Base Florence Flint	1508 (+ 168)	Douglas	2811 (-1135)
Red Eagle	1862 (- 186)	Brown Lime	2939 (-1263)
Indian Cave Sand Zone	1997 (- 321)	Lansing	2964 (-1288)
Indian Cave Sand	2002 (- 326)	Base Kansas City	3294 (-1618)
Base Indian Cave Sand	2028 (- 352)	Kinderhook	3340 (-1664)
Stotler	2150 (- 474)	Log TD	3347 (-1670)

Running Casing.

8-7-76

Set 4½" 10.5# J-55 production casing @2616' w/350 sacks 50-50 posmix cement W.O.C.T. NON DIVISION  
11/1/76

COMPLETION REPORT

- 9-22-76 Moving in Peters Drilling Cable Tools
- 9-23-76 Ran G. Ray Collar Locator Log. PBD 2572½. Perforated Severy Sand 2448-52 and 2434-44 with 3 shots per foot. Swb. down. Swb. 4.8 BSW/Hr. 2 Hrs.
- 9-24-76 1700' salt water in hole overnight. No show oil or gas. Set Baker Bridge Plug @2256'. Perforated Stotler 2166-2174, Indian Cave Sand 2019-2024 and ~~2004-2010~~ with 3 shots per foot. Ran tubing with Baker Model A Production Packer. Hung Packer in hole @2130. Bottom of tubing @2162. Swabbed well down. Well kicked off and flowed to pits. Water free gas in 40 minutes. Set Production Packer @2130'. Shut in annulus pressure 680 PSI in 15 minutes. Shut in tubing pressure 30 PSI in 5 minutes. Acidized Stotler with 500 gallons acid. Recovered load.
- 9-25-76 7:00 a.m. SICP 730#; SITP 690#. Flow tubing to pits. Gauged 176,000 CFGPD. Acidized with 3,000 gallons. Flowed back to pits. Did not have to swab. Recovered most of load in 1½ hours. Some moisture still in gas. No free water. Gauged 310,000 CFGPD thru 2" line. Shut in tubing.

INDIAN CAVE TEST (ANNULUS)Choke

1/4"  
1/2"  
3/4"

Gauge

1,450 MCF  
1,710 MCF  
1,790 MCF - No Moisture

- 9-26-76 Shut Down - Sunday
- 9-27-76 Shut Down - Mud.
- 9-28-76 Testing complete. Moved out Cable Tools. Waiting on Four Point Calculated Open Flow Test. SITP 750 PSIG, SCIP 730 PSIG.

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Page 4

## DRILLING REPORT

WELL NAME: HINKLE OIL COMPANY

#1 SNOOK  
C S/2 NW SW  
Sec. 10-22S-8W  
Reno County, Kansas

CONTRACTOR:

ELEVATION:

### WORKOVER REPORT

8-8-83 Rigged up, shut down.  
8-9-83 Pulled rods and tubing. Ran tubing; tested in hole - okay, no leaks or breaks. Pulled tubing. Dresser Atlas on location and perforated RED EAGLE LIMESTONE 1864-68 with 3 Jumbo Jet shots per foot. After perforating; back on. Shut down.  
8-10-83 SICP: 480#. Killed well with 35 barrels water. Set wireline Bridge Plug @1925'. Ran Tubing to 1866'. Seating Nipple 1 jt off bottom. Acidized with 500 gals. acid. Started treating at 1/4 BPM @450#. Increased to 5 BPM @850#. ISDP: 250#. On vacuum in 15 minutes. Blew back through 2" tubing. Flowing Casing Pressure: 450# in 1.5 hours. Estimated 2500 MCFGPD.  
8-11-83 SITP: 690#, SICP: 690#. Released unit. Connected well back up to separator.

### WORKOVER COMPLETE

11-23-88 Well would not sustain natural flow due to low pressure and water production. Moved in pulling unit. Lowered tubing string one joint. Ran pump and rods. Set good used Witte engine on unit, connected well up to sell gas thru the annulus and to pump off fluid thru the tubing.  
8-16-90 Working Fluid Level 1880' from surface. Well pumped off.  
8-24-90 72 Hour Shut In Test - Casing pressure 140#, Shut In Tubing pressure 120#.  
9-11-90 Red Eagle Zone depleted. CP 48#. MIPU. Pulled Tubing and Rods. Set RBP @1839'. Ran Cement Bond Log. Top of cement @1184'. Perforated COUNCIL GROVE 1623-26 with 4 shots per foot. Ran Tubing and Packer. Set packer @1640'. Tested RBP and Tubing to 2000#. Held OK. Set packer @1617'. Spotted acid on bottom. Treated with 500 gallons 15% acid. MP: 650#, AIR: 3 BPM @500#, ISDP: 300# - 50#/5 minutes. Total Load 33 barrels. Well flowed back 24/33 bbl. load with very good show of gas. Last 1 Hour flow rate = 5 BF. Shut in overnight.  
9-12-90 Shut in Tubing pressure 510#. Killed well. Pulled Packer and Plug. Set CIBP @1700'. Ran 52 jts. tubing + Seating Nipple. Seating Nipple @1615.39'. Base Tubing @1647.17'. Retreated with 2000 gallons 15% acid + 10 Bbls. overflush. MP: 550#, AIR: 3.5 BPM @550#, ISDP: 300# - 50#/5 minutes. Ran 1 1/2" insert pump and rods. Released unit.  
ZONE NOW OPEN TO PRODUCTION - COUNCIL GROVE 1623-1626.

WORKOVER COMPLETE

- 11-4-92 PLP 165#, SICP 165#. Well will not sell gas against pipeline pressure without compression. Took Stabilized Flow Test, tested 37 MCFGPD @20 psig with approximately 20 BWPD.
- 11-9-92 Moved in DS&W Pulling Unit. Pulled tubing and rods. Check TD @1700'. Set CIBP @1600', loaded hole. Perforated FT. RILEY 1465-75 with 3 SPF. Ran 46 jts. tubing + 8' sub + Seating Nipple 1 joint off bottom. Base Tubing @1463.03'. Swabbed down, tested dry.
- 11-10-92 Treated with 500 gallons 28% NE Acid. Maximum Pressure 1100#, Treating Pressure 1100#, AIR 7 BPM, ISDP 500#. On vacuum in 10 minutes. Recovered 40.32/34 Bbl. load. Swab test - 1st Hr., 17.52 BW, 2nd Hr. 15.75 BW. SION
- 11-11-92 SITP 420# @9:00 A.M. Blew down, No Volume. Pulled Tubing. Loaded hole. Set CIBP @1455'. Perforated Upper Ft. Riley 1431-1438' with 3 SPF. Ran 45 jts. Tubing + 8' Sub. Top Seating Nipple one joint off bottom. Base Tubing @ 1432'. Swabbed down. Dry. Treated with 500 gals. NEA. Broke @350#. Treating Pressure 1100#, AIR 6 BPM. ISDP 400#, 50#/15 minutes. Recovered 14.4/34 Bbl. load. SION.
- 11-12-92 SITP 180# @9:00 A.M. Swabbed down. Recovered load. 1 Hr. Test 1.44 BW, show of gas, TSTM. Non-commercial. Perforated Towanda 1381-1388 and Winfield 1304-1314 and 1322-1324' with 3 SPF. Ran tubing, RBP and Tension Packer. Set RBP @1402'. Packer @1365'. SION.
- 11-13-92 TP 350#, CP 80# @9:00 A.M. Treated perfs with 500 gallons 28% NEA. Broke @850#. Treating Pressure 850#, AIR 6 BPM, ISDP 350#, 150#/10 minutes. Swabbed down. Recovered 20.64/19 Bbl. load. Show of gas. TSTM. Non-Commercial. Reset RBP @1339. Tested Packer and plug in blank pipe to 1000#. Set Packer @1294'. Swabbed down. Good show of gas. Swabbed 7.68 BWP/2 Hrs. SION.
- 11-16-92 SITP 410#, SICP 10# @9:00 A.M. Blew down. No Volume. Not Commercial. Will Plug and Abandon.

WORKOVER COMPLETE