

THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS PRESCRIBED BY THE OIL AND GAS DIVISION OF THE DEPARTMENT OF MINES.

New Location
 Drill Deeper
 Abandonment

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS DIVISION OF THE MINING LAWS OF WEST VIRGINIA.

Company CITIES SERVICE OIL Co.
 Address Box 873, CHARLESTON, W.VA.
 Farm LEWIS MAXWELL "C"
 PART OF 1500 AC
 Tract _____ Acres 307 Lease No. CFWV-905
 Well (Farm) No. B-18 Serial No. GW-1484
 Elevation (Spirit Level) 892.23'
 Quadrangle VADIS-3 5004 W-371 NW
 County DODDRIDGE District NEW MILTON
 Engineer Wendell S Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-11-64
 Date 10 MARCH 64 Scale 1" = 600'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. DoD-1127

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

Samples 1000 - TD

6-6-99



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Rotary
Spudder
Cable Tools
Storage

Quadrangle Vadis 3 SW

WELL RECORD

Permit No. Dod-1127

Oil or Gas Well gas
(KIND)

Company Cities Service Oil Company
Address P. O. Box 873, Charleston 23, W. Va.
Farm Lewis Maxwell "C" Acres 307.
Location (waters) George's Camp Run
Well No. B-18, GW-1484 Elev. 892.23'
District New Milton County Doddridge
The surface of tract is owned in fee by R. S. Maxwell
Star Route Address West Union, W. Va.
Mineral rights are owned by Grace Gaylord, et al
420 Kemmer Road Address State College, Pa.
Drilling commenced 7-1-64
Drilling completed 7-24-64
Date Shot not shot From _____ To _____
With _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|------------------------|--------------------|--------------------|-------------------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | | | <u>Anchor Packer</u> |
| 10 3/4" 32# | 60'4" | 60'4" | Size of <u>4-1/2"</u> |
| 8 1/4" 24# | 310'4" | <u>pulled</u> | Depth set <u>1,620'</u> |
| 7" 23# | 858'6" | 858'6" | |
| 4-1/2" 9.5# | 1747'8" | 1747'8" | |
| 3 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume show Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized
WELL FRACTURED see reverse side

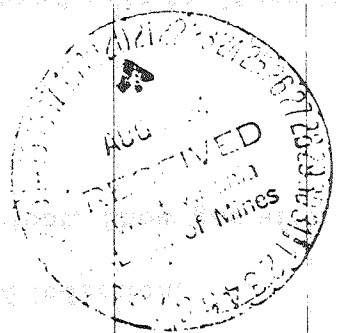
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
see reverse side
COAL WAS ENCOUNTERED AT none FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 49/10 W. 4" = 1,175 MCF (Big Injun)

ROCK PRESSURE AFTER TREATMENT 72 hours 630# -- 96 hours 650#

Fresh Water 53' 90' Feet Salt Water _____ Feet

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|------------------|-------|--------------|------|--------|-------------------|----------|------------------------------------|
| Red Rock | | | 0 | 50 | | | |
| Lime | | | 50 | 70 | F. water | 53' | show |
| Sand | | | 70 | 100 | F. water | 90' | hole full |
| Slate and Shells | | | 100 | 190 | | | |
| Lime | | | 190 | 220 | | | |
| Slate and Shells | | | 220 | 265 | | | |
| Gray Lime | | | 265 | 320 | | | |
| Red Rock | | | 320 | 354 | | | |
| Slate and Shells | | | 354 | 533 | | | |
| Red Rock | | | 533 | 564 | | | |
| Slate and Shells | | | 564 | 845 | | | |
| Sand | | | 845 | 940 | | | |
| Slate and Shells | | | 940 | 1035 | | | |
| Sand | | | 1035 | 1110 | | | |
| Slate and Shells | | | 1110 | 1225 | | | |
| Sand | | | 1225 | 1320 | Gas | 1295' | 60M - exh. |
| Slate and Shells | | | 1320 | 1498 | | | |
| Lime | | | 1498 | 1532 | Gas | 1540-45' | 60M - exh. |
| Sand | | | 1532 | 1560 | | | |
| Big Lime | | | 1560 | 1625 | | | |
| Big Injun | | | 1625 | 1690 | Gas | 1668-75' | 15M |
| Slate | | | 1690 | 1730 | | | |
| Total depth | | | | | | | 1730' DLM=1737' Schlumberger Meas. |



| Formation | Color | Hard or Soft | Top $\bar{6}$ | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--|--|--------------|---------------|--------|-------------------|-------------|---------|
| <u>Casing Record</u> | | | | | | | |
| 7-4-64 | Ran 8-5/8" casing at 307'DLM with shoe-set in 20' red mud. Pulled later. | | | | | | |
| 7-9-64 | Ran 7" at 848'DLM with shoe-set in 20' red mud, R/L nipple 3 joints up. | | | | | | |
| 7-29-64 | Ran 4-1/2" at T. D. with shoe-packer set at 1,620' - top of float insert 1,714' - R/L nipple at 1,491' - 3 centralizers. Ran 19 sacks regular cement. Pumped plug to top of insert at 1,714' | | | | | | |
| Schlumberger ran logs: Formation, Density, Temperature and Induction. | | | | | | | |
| 7-31-64 | Perforated 1632-40', 1674-85', 1693-96' 2 shots/foot. Show gas after perforating. | | | | | | |
| <u>FRACTURED BIG INJUN 8-12-64</u> | | | | | | | |
| Show gas before fracing. Used 37,000# 20-40 sand. Injected sand 1/2# to 2#/gallon. Injection rate 38 bbls/minute. Used 120,000 SCF Nitrogen. Flushed with 1,200 gallons water. Maximum pressure 2600#-minimum 2200#. | | | | | | | |
| Final open flow 49/10 W. 4" = 1,175 MCF | | | | | | | |

Date August 19, 19 64

APPROVED Cities Service Oil Company, Owner

By W. S. Moore, Division Sup't
(Title)