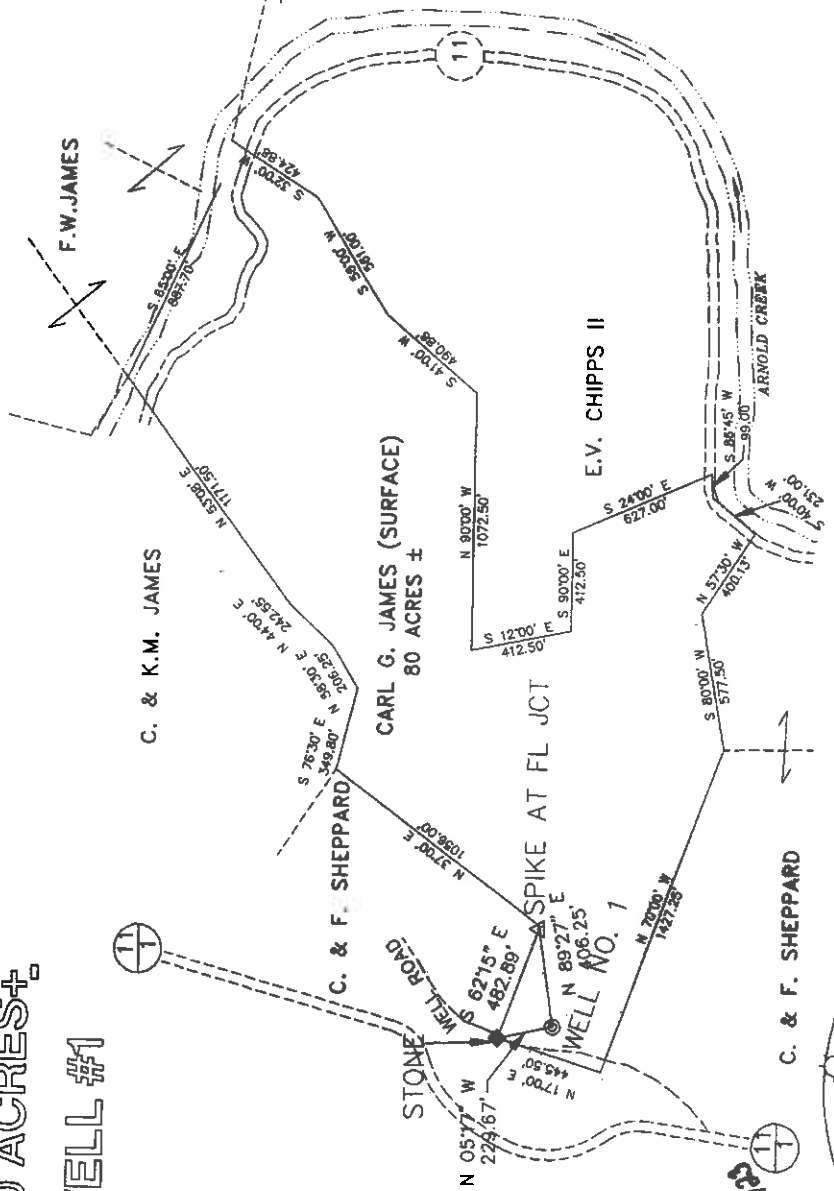


LATITUDE 39° 20' 00"

LONGITUDE 80° 50' 00" 4880

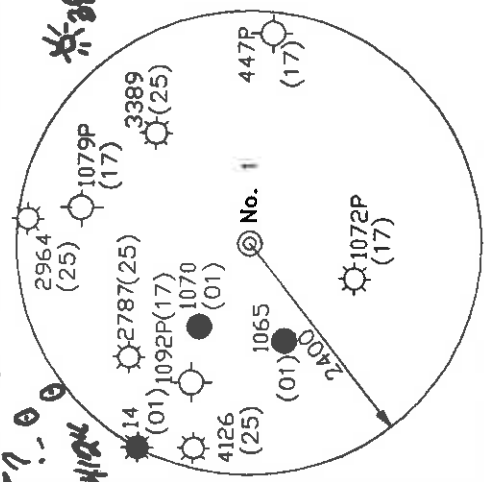
JAMES LEASE 80 ACRES ± WELL #1



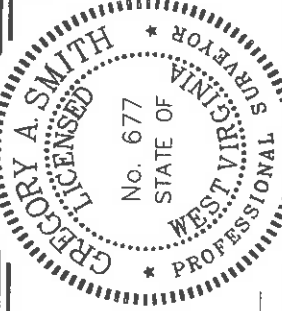
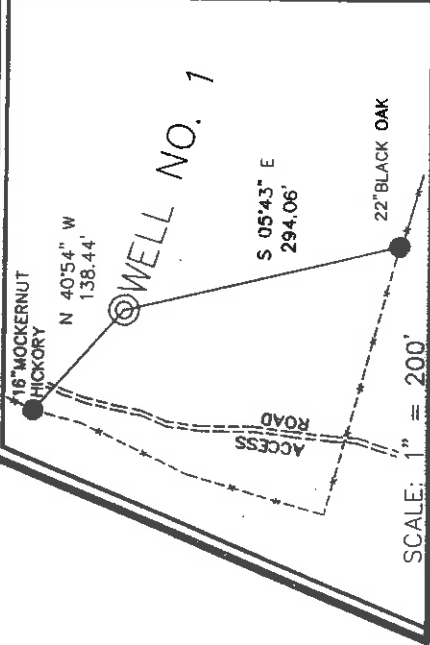
NORTH

0.9235

*ACT 11-00
No. 1
* 2859*



REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

P.S. *Gregory A. Smith*
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE APRIL 26, 19 95
OPERATORS WELL NO. ONE

API WELL NO. 47-017-04200
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3394 (54-47)
PROVEN SOURCE SCALE 1" = 800'
OF ELEVATION JUNCTION OF ROADS, ELEV. = 755'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE : OIL GAS LIQUID WASTE INJECTION DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1043' WATERSHED LONG RUN OF ARNOLD CREEK

DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER CARL G. JAMES ACREAGE 80 *SC*
ROYALTY OWNER CARL G. JAMES LEASE ACREAGE 80 LEASE NO. _____

PROPOSED WORK :
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION *Benson, Riley, Albion*
ESTIMATED DEPTH 500' PERMIT *5340*

WELL OPERATOR MURVIN OIL CO. *595* DESIGNATED AGENT P. NATHAN BOWLES, JR. *1995*
ADDRESS P.O. BOX 297 OLNEY, IL 62450 *6-6-91* ADDRESS P.O. BOX 1386 CHARLESTON, WV 25325

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: JAMES, CARL G. Operator Well No.: CARL JAMES #1

LOCATION: Elevation: 1,043.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 4880 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 830 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: MURVIN OIL COMPANY

1712 S. WHITTLE AVE/P.O. BX297
OLNEY, IL 62450-0297

Agent: P. NATHAN BOWLES, JR.

Inspector: MIKE UNDERWOOD
Permit Issued: 06/07/95
Well work Commenced: 08/04/95
Well work Completed: 08/29/95
Verbal Plugging
Permission granted on: Rig
Rotary X Cable
Total Depth (feet) 5,350
Fresh water depths (ft) 20', 60', 289'

Salt water depths (ft) -

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 18' to 20'

OPEN FLOW DATA

Size	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	131		131	83
8 5/8	1466		1466	360
4 1/2	5301		5301	368

Producing formation Riley-Benson-Alexander Pay zone depth (ft) 4504'-5238'
 Gas: Initial open flow 450' MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 310' MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1300 psig (surface pressure) after 48 Hours

Second producing formation
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow - MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests - Hours
 Static rock Pressure - psig (surface pressure) after - Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: MURVIN OIL COMPANY

By: *Carly L. Hill*

Executive Vice President

Date: August 30, 1995

SEP 4 1995

08/17/95;

Ran bond log and perforated Alexander Formation from 5210' to 5238' with 13 holes. Foam fractured Alexander perfs with 472 bbls. fluid, 43,000 lbs. 20/40, 445 MSCF Nitrogen, 500 gals. 15% HCL.

Perforated Benson formation from 4918' to 4923' with 10 holes. Foam fractured with 235 bbls. fluid, 30,000 lbs. 20/40, 551 MSCF Nitrogen, and 1,000 gals. 15% HCL.

Perforated Riley formation from 4504' to 4532' with 10 holes. Foam fractured with 355 bbls. fluid, 10,000 lbs. 80/100, 40,000 lbs. 20/40, 522 MSCF Nitrogen and 500 gals. 15% HCL.

WELL LOG

Formations	Top	Bottom
Fill	0	3
Red Rock	3	10
Sandy Shale	10	18
Coal	18	20
Sand/Shale	20	265
Sand	265	320
Red Rock	320	335
Sand/Shale	335	447
Red Rock	447	460
Sand/Shale	460	515
Shale	515	588
Sand/Shale	588	674
Sand	674	693
Shale	693	705
Sandy Shale	705	845
Sand	845	895
Sandy Shale	895	1098
Sand	1098	1140
Sandy Shale	1140	1459
Sand	1459	1515
Sand/Shale	1515	1920
Big Lime	1920	1999
Injun	1999	2040
Squaw	2040	2084
Shale	2084	2240
Weir	2240	2355
Shale	2355	2434
Berea	2434	2442
Shale	2442	2854
Gordon	2854	2872
Shale	2872	4480
Riley	4480	4542
Shale	4542	4912
Benson	4912	4930
Shale	4930	5168
Alexander	5168	5244
Shale	5244	5350
Total Depth	5350	

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

JUN 03 1995

Issued 06/07/95

67 Expired 06/07/97

- 1) Well ⁵⁹⁵ Permitting: Murvin Oil Company 34050 (1) 67 Expired 06/07/97
Office of Oil & Gas
- 2) Operator's Well Number: Carl James #1 3) Elevation: 1043
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
439
- Proposed Target Formation(s): Riley - Benson - Alexander
- Proposed Total Depth: 5340 feet
- Approximate fresh water strata depths: 70'
- Approximate salt water depths: -
- 9) Approximate coal seam depths: -
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Drill and complete new well

12) CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	LEFT IN WELL	CEMENT
Conductor						
Fresh Water	11 3/4	L.S.	42	130	130	CTS D.O.K. M.L.H.
Coal						
Intermediate	8 5/8	L.S.	24	1445	1445	CTS BOESCH
Production	4 1/2	J/K	10.5	5340	5340	CTS BOESCH
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

380 X 29

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Blanket Agent

(Type)

RECEIVED
WV Division of
Environmental Protection
JUN 05 1995

1) Date: May 25, 1995
2) Operator's well number
Carl James #1
3) API Well No: 47 - 017 - 4200
State - County - Permit

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name Carl G. James
Address Rt. #1, Box 167-A
West Union, WV 26456

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name Same as Surface Owner
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

6) Inspector Mr. Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties, by:

Personal Service (Affidavit attached)

Certified Mail (Postmarked postal receipt attached)

Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Murvin Oil Company

By: Garry L. Hill
Executive Vice President
Address _____
P.O. Box 297
Olney, Illinois 62450

Subscribed and sworn before me this 35th day of May, 1995

Barbara A. Hill Notary Public
My commission expires November 9, 1996