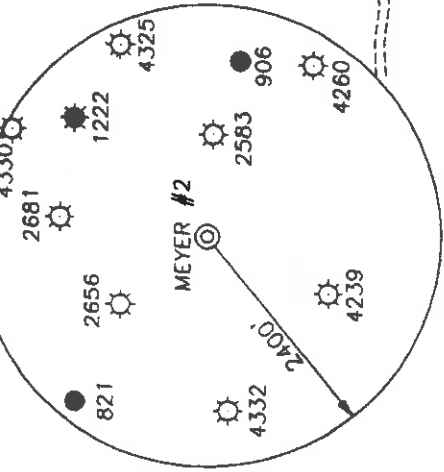


# MEYER LEASE 56 ACRES± TOTAL WELL #2

DENNIS H. & MELLIE M. POWELL  
47-017-2656  
N 32°30' E 2046.00'

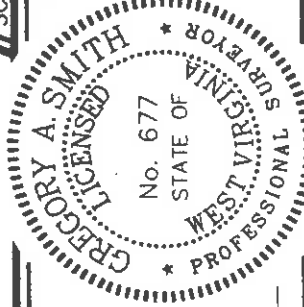
ERMA LAMM  
6.87 AC±  
(SURFACE)  
N 49°59' E 31.17'  
CHESTNUT OAK  
REFERENCE

BARBARA L. WARDEN  
TM 9 PAR 50  
64.9 AC±



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. 677 *Gregory A. Smith*



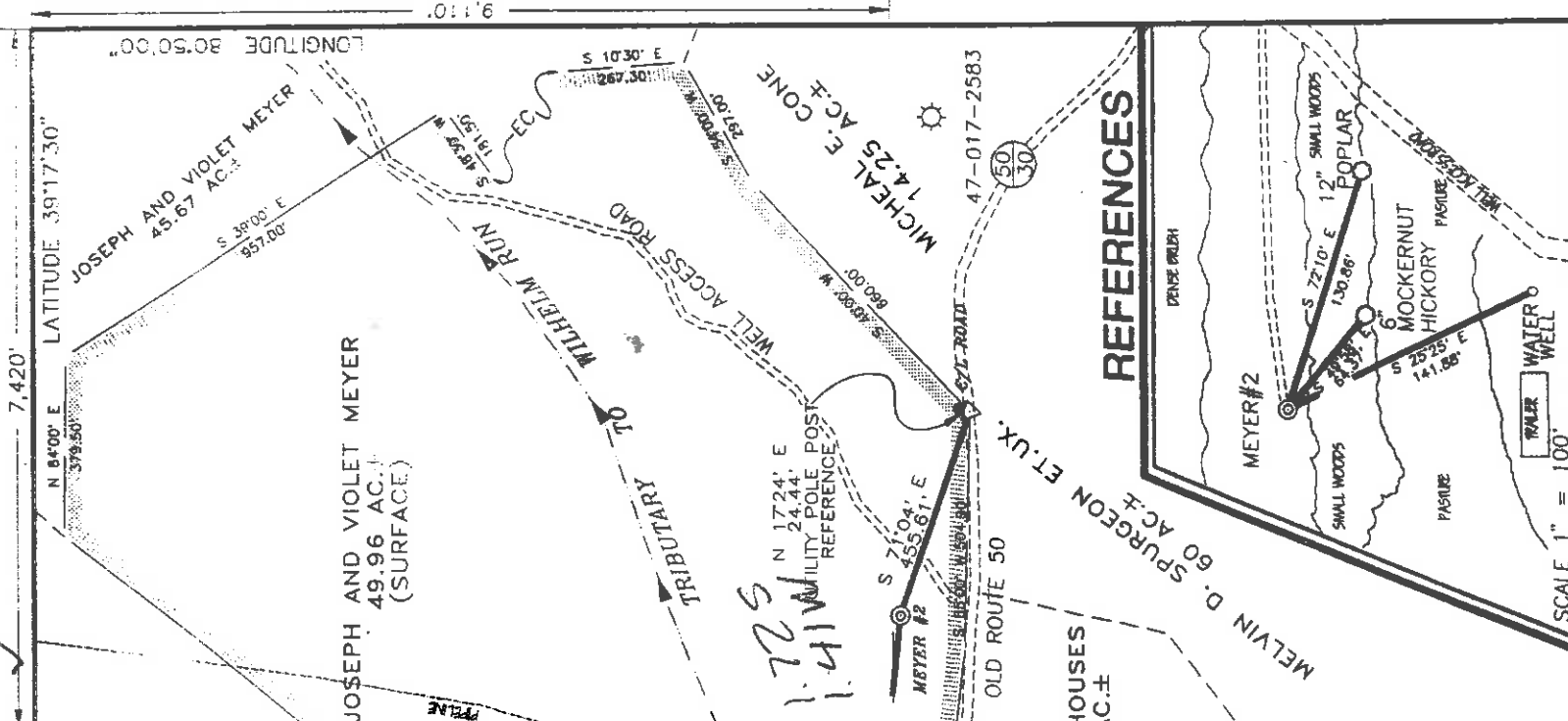
MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3772P1 (65-60)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1332' SCALE 1" = 400'

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

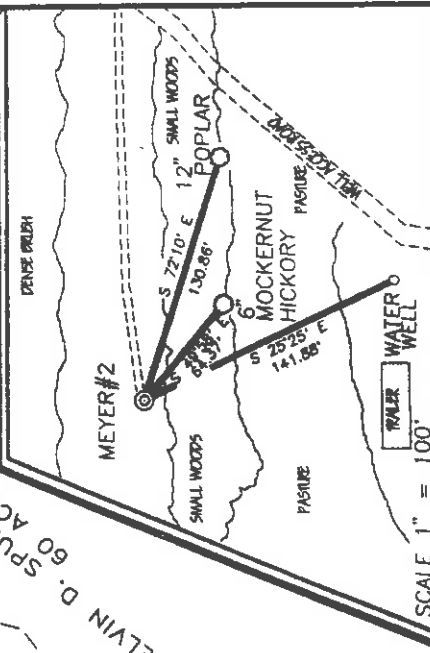
LOCATION : ELEVATION 1111' WATERSHED TRIBUTARY TO WILHELM RUN  
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'  
SURFACE OWNER JOSEPH AND VIOLET MEYER ACREAGE 49.96  
ROYALTY OWNER WILLIAM S. CALHOUN ET.AL. LEASE ACREAGE 56 LEASE NO. \_\_\_\_\_

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 ALEXANDER  
ESTIMATED DEPTH 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452  
6-4 89 AUG 28 1997



## REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JULY 29, 19 97  
OPERATORS WELL NO. MEYER#2  
API WELL NO. 47-017-04390  
STATE COUNTY PERMIT

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



7,420' LATITUDE 39°17'30" LONGITUDE 80°50'00"

7,420'

FORM WM 6

WR-35

21 - Aug - 97  
API # 47 - 17 - 04390

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

Well Operator's Report of Well Work

Farm name: MEYER, JOSEPH J.

Operator Well No. : MEYER #2

LOCATION: Elevation: 1,111.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 9110 Feet South of 39 Deg. 17 Min. 30 Sec.

0 Sec.

Longitude: 7420 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY  
22 Garton Plaza  
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit issued: 08/29/97  
Well Work Commenced: 10/13/97  
Well Work Completed: 10/28/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig

Total Depth ( feet ) 5525'

Fresh water depths ( ft ) 100'

Salt water depths ( ft ) 1720'

Is coal being mined in area ( Y / N ) ? N

Coal Depths ( ft ) : NONE

OPEN FLOW DATA

Balltown  
Rileys  
Benson

3870' - 4584'

4626' - 5020'

5058' - 5073'

5306' - 5394'

Producing formation Alexander

Gas: Initial open flow No Show MCF / d

Final open flow 1,492 MCF / d

Time of open flow between initial and final tests N/A

Static rock pressure 1700 psig ( surface pressure ) after 96 Hours

Pay zone depth ( ft )

Oil: Initial open flow 0 Bbl / d

Oil: Final open flow show Bbl / d

Hours

Hours

Second producing formation

Gas: Initial open flow \_\_\_\_\_ MCF / d

Final open flow \_\_\_\_\_ MCF / d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure \_\_\_\_\_ psig ( surface pressure ) after \_\_\_\_\_ Hours

Pay zone depth ( ft )

Oil: Initial open flow \_\_\_\_\_ Bbl / d

Oil: Final open flow \_\_\_\_\_ Bbl / d

Hours

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: KEY OIL COMPANY

By: 

PRESIDENT

Date: March 27, 1998

MAY 04 1998

DODA 4390

Meyer #2 ( 47-017-04390 )  
 Four Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 12 holes ) ( 5351.75' to 5381.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 813 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 10 holes ) ( 5057.75' to 5064.75' ) Third Riley ( 2 holes ) ( 4990' to 4990.25' )	60 Quality Foam. 750 gal. 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 714 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 12 holes ) ( 4647' to 4665' )	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 745 bbls foam.
4 <sup>th</sup> Stage:	Balltown ( 13 holes ) ( 3960.50' to 4199.75' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill and clay	0	10	
Red Rock & Shale	10	100	1/2" H <sup>2</sup> O @ 100'
Red Rock & Sand	100	208	
Sand and Shale	208	754	
Sand	754	870	
Sand & Shale	870	1001	
Shale & Red Rock	1001	1528	
Sand & shale	1528	1650	
Sand	1650	1891	1 1/4" H <sup>2</sup> O @ 1720'
Sand & Shale	1891	1987	
Sand	1987	2076	
Shale	2076	2091	
Little Lime	2091	2117	
Shale	2117	2129	
Big Lime	2129	2188	
Big Injun	2188	2252	
Shale	2252	2420	<b>GAS CHECKS</b>
Weir	2420	2546	2513' - No Show
Sand & Shale	2546	3476	3011' - No Show
Warren	3476	3548	3723' - No Show
Shale	3548	3562	4503' - No Show
Speechley	3562	3688	4901' - No Show
Shale & Sand	3688	3870	
Balltown	3870	4584	
Shale	4584	4626	
Riley	4626	4693	
Sand & Shale	4693	4978	
Third Riley	4978	5020	
Shale	5020	5058	
Benson	5058	5073	
Sand & Shale	5073	5306	
Alexander	5306	5394	
Shale	5394	5525	
T.D.	5525		

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

1) Well Operator: KEY OIL COMPANY 25688 (1) 671  
 Operator's Well Number: MEYER #2 3) Elevation: 1111'

24175

Well type: (a) Oil X / or Gas X / Issued 08/29/98  
 (b) If Gas: Production X / Underground Storage / Expired 08/29/99  
 Deep    / Shallow X /

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

7) Approximate fresh water strata depths: 95'

8) Approximate salt water depths: 1716'

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? Yes    / No X /

11) Proposed Well Work: DRILL, STIMULATE, PRODUCE New Well

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132		390 SKS TO SURFACE
Coal						
Intermediate	8 5/8	ERW	23	2090		560 SKS TO SURFACE
Production	4 1/2	J-55	10.5	5500		490 SKS
Tubing	1.5					
Liners						

PACKERS : Kind  
 Sizes  
 Depths set

For Office of Oil and Gas Use Only

00478427  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPC2  
 Plat  W-9  W-25  Bond  Agent (Type)

1) Date: AUGUST 12, 1997  
2) Operator's well number MEYER #2  
3) API Well No: 47 - 017 - 4390  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
 (a) Name JOSEPH J. MEYER Name NONE  
 Address P. O. BOX 293, OLD NY ROAD Address \_\_\_\_\_  
 PORT REPUBLIC, NJ 08241

(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
 Address \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_

(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration  
 Address RI. 2 BOX 135 Name \_\_\_\_\_  
 SALEM, WV 26426 Address \_\_\_\_\_  
 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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  
 I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ 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 22-6 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 \_\_\_\_\_ KEY OIL COMPANY  
 BY: \_\_\_\_\_  
 His: \_\_\_\_\_ PRESIDENT  
 Address 22 GARTON PLAZA  
 WESTON, WV 26452  
 Telephone 304-269-7102

Subscribed and sworn before me this 12TH day of AUGUST 1997  
 My commission expires MARCH 24, 2003

