

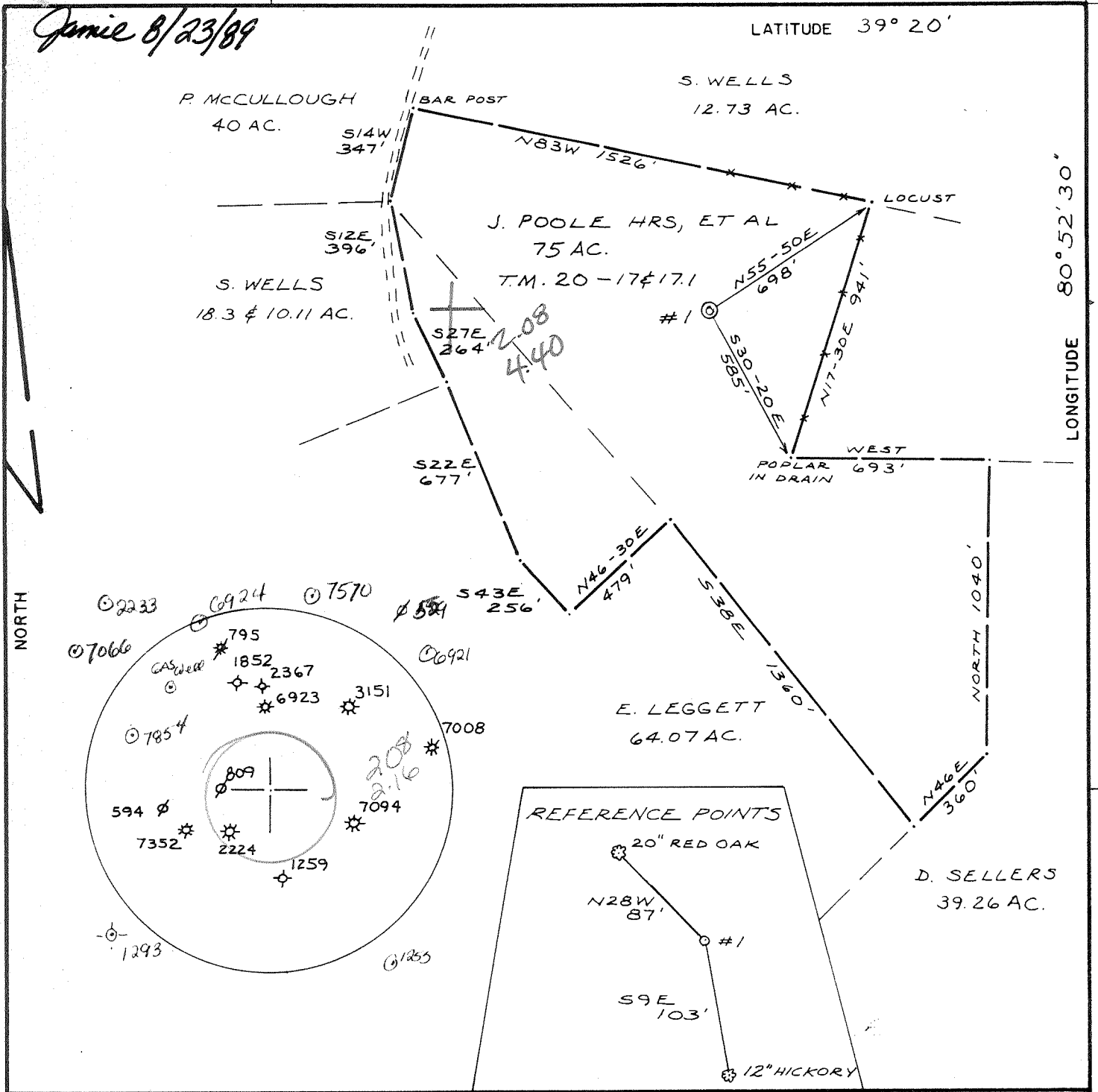
Janie 8/23/89

11,400'

LATITUDE 39° 20'

LONGITUDE 80° 52' 30"

10,990'




FILE NO. 89-80
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION RD. INTER. 815'

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 MINES.
 (SIGNED) Neal Hughes
 R. P. E. _____ L. L. S. 632

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1130' WATER SHED BUCK RUN
 DISTRICT CLAY COUNTY RITCHIE
 QUADRANGLE PENNSBORO 539 1338 West Union SC
 SURFACE OWNER JOHN POOLE HEIRS, ET AL ACREAGE 75
 OIL & GAS ROYALTY OWNER JOHN POOLE HEIRS, ET AL LEASE ACREAGE 75
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR KEY OIL CO., INC. DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 6 GARTON PLAZA WESTON, WV 26452 ADDRESS 6 GARTON PLAZA WESTON, WV 26452



Department of Mines
Oil & Gas Division

DATE AUGUST 2, 19 89
 OPERATOR'S WELL NO. POOLE 1
 API WELL NO. 47-085-7880
 STATE COUNTY PERMIT

AUG 25 1989

OCT 19 1989

085-7880

DIVISION OF OIL & GAS Well Operator's Report of Well Work
DEPARTMENT OF ENERGY
Farm Name: POOLE, GLENN E. Operator Well No.: POOLE #1

LOCATION: Elevation: 1130.00 Quadrangle: PENNSBORO

District: CLAY County: RITCHIE
Latitude: 10990 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 11400 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: KEY OIL, INC.
6 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: SAMUEL HERSMAN
Permit Issued: 08/24/89
Well work Commenced: 9-11-89
Well work Completed: 9-19-89
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 5495'
Fresh water depths (ft) 65' & 117'
Salt water depths (ft) 1601'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1024'-1027'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	1221	1221	270 sks.
4-1/2		5325	250 sks.
2-3/8		5214	

OPEN FLOW DATA

Riley 4556-4571
Benson 4941-4948

Producing formation Alexander Pay zone depth (ft) 5230-5245
Gas: Initial open flow 33 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 971 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hour

Static rock Pressure 1110 psig (surface pressure) after 40 Hour

Second producing formation _____ Pay zone depth (ft) _____
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 _____ Hour
Static rock Pressure _____ psig (surface pressure) after _____ Hour

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.

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DIVISION OF OIL & GAS
DEPT. OF ENERGY

KEY OIL, INC.

By: Jan E. Chapman Jan E. Chapman
Date: October 11, 1989

OCT 20 1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING,
PHYSICAL CHANGE, ETC.

Halliburton 9-25-89

Stage #1 (5238-5240.25) (Alexander)	30,000# 20/40 sand, 365,000 SCF N ₂ , 500 gal. acid
Stage #2 (4943-4945.25) (Benson)	15,000# 20/40 sand, 324,000 SCF N ₂ , 750 gal. acid
Stage #3 (4558-4576.5) (Riley)	10,000# 80/100 snad & 25,000# 20/40 sand, 483,000 SCF N ₂ , 750 gal. acid

WELL LOG

<u>FORMATION</u>	<u>TOP FEET</u>	<u>BOTTOM FEET</u>
Clay, Sand & Shale	0	48
Sand & Shale	48	70 Damp 65'
Red Rock & Shale	70	75
Sand & Shale	75	89
Sand	89	103
Red Rock, Sand & Shale	103	110
Sand	110	130 Damp 117'
Red Rock, Sand & Shale	130	218 1/4"water @137'
Sand	218	303
Sand & Shale	303	445
Shale & Red Rock	445	700
Sand	700	710
Sand & Shale	710	946
Sand	946	955
Sand & Shale	955	1024
Coal	1024	1027
Sand & Shale	1027	1122
Sand	1122	1177
Shale	1177	1190
Sand	1190	1212
Sand & Shale	1212	1221
Sand	1221	1229
Sand & Shale	1229	1235
Sand	1235	1269
Sand & Shale	1269	1398
Sand	1398	1571
Sand & Shale	1571	1646 Damp @ 1601'
Sand	1646	1721 Gas-1695'no show
Sand & Shale	1721	1874
Maxton	1874	1900
Sand & Shale	1900	1912
Little Lime	1912	1929
Sand & Shale	1929	1940
Big Injun	1940	2047 Gas-2007'no show
Sand & Shale	2047	2062
Sand	2062	2119
Sand & Shale	2119	2318
Sand	2318	2440
Sand & Shale	2440	4556 Gas-2503-4/10-1"
Riley	4556	4571 Gas-2995'no show
Sand & Shale	4571	4941 Gas-3490-4/10-1"
Benson	4941	4948 Gas-4010-4/10-1"
Sand & Shale	4948	5230 Gas-4412-4/10-1"
Alexander	5230	5245 Gas-4720-4/10-1"
Sand & Shale	5245	5495 Gas-5122-4/10-1"
TD	5495	Gas @ TD-6/10-1"

Handwritten initials

DATE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: 475 KEY OIL, INC. 25655 (1) 538
- 2) Operator's Well Number: Poole #1 3) Elevation: 1130'
- 4) Well type: (a) Oil X/ or Gas X/
- (b) If Gas: Production X/ Underground Storage /
 Deep / Shallow X/
- 5) Proposed Target Formation(s): 469 Alexander
- 6) Proposed Total Depth: 5,500 feet
- 7) Approximate fresh water strata depths: 125'
- 8) Approximate salt water depths: -0-
- 9) Approximate coal seam depths: None
- 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	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4		42	42	42	<u>38CS18-11.3</u>
Fresh Water	8-5/8	ERW	23	1280	1280	310 sks. to surface
Coal						
Intermediate						
Production	4.5	J-55	10.5		5500	280 sks.
Tubing						<u>38CS18-11.1</u>
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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

Plat WW-9 WW-2B Bond

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: August 10, 1989
2) Operator's well number
Poole #1
3) API Well No: 47 - 085 - 7880
State - County - Permit

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 Glenn E. Poole
Address P. O. Box 1550
Clarksburg, WV 26302
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Sam Hersman
Address Route 1 Box 240
Harrisville, WV 26362
Telephone (304)- _____

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

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

X 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 _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X 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 KEY OIL, INC.
By: Jan E. Chapman Jan E. Chapman
Its: Vice President
Address 6 Garton Plaza
Weston, WV 26452
Telephone (304) 269-7102

Subscribed and sworn before me this 10th day of August, 1989

Samuel Lee Butcher
My commission expires Nov. 15, 1992 Notary Public