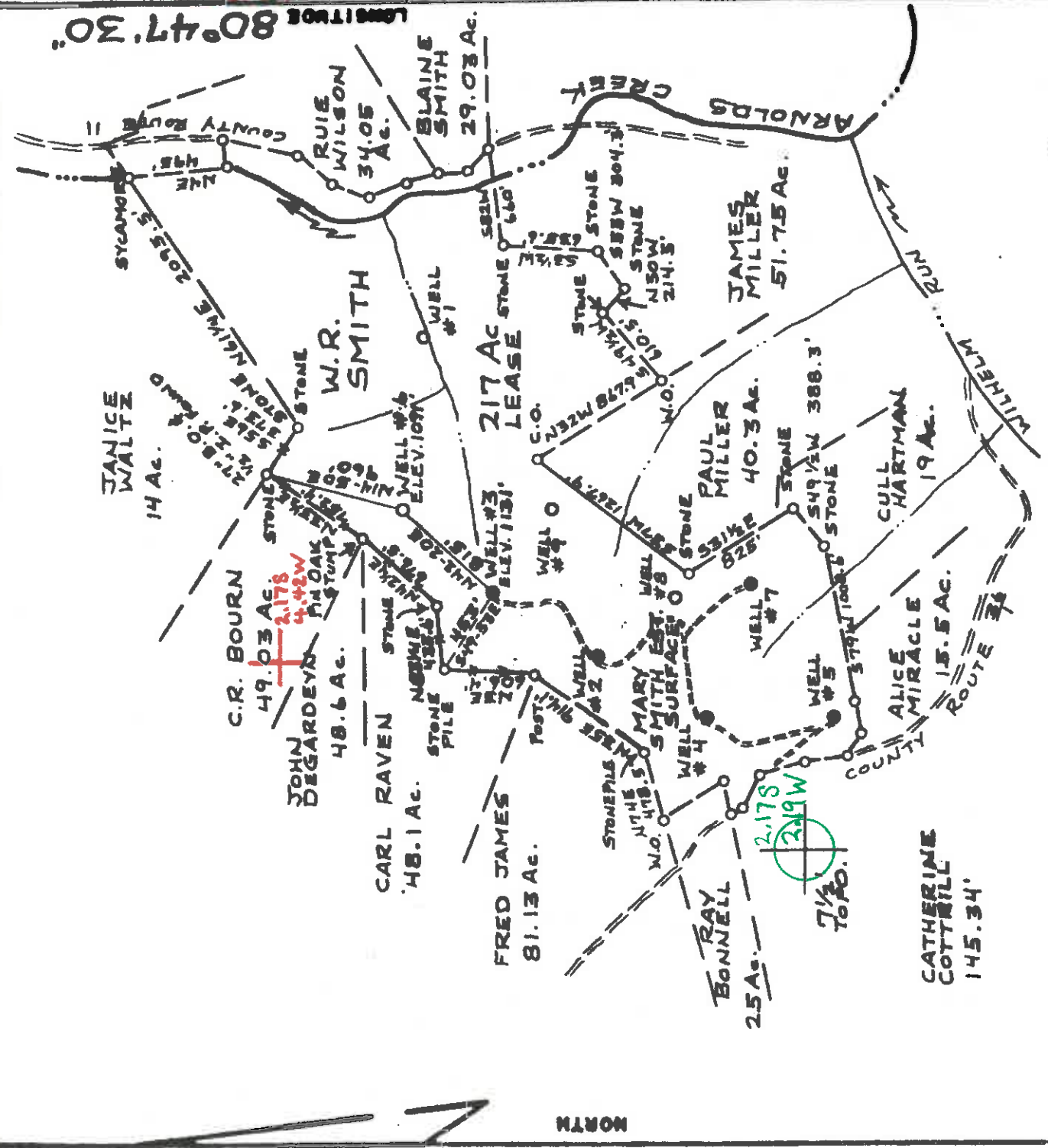


11,490'

LONGITUDE 80°47'30"

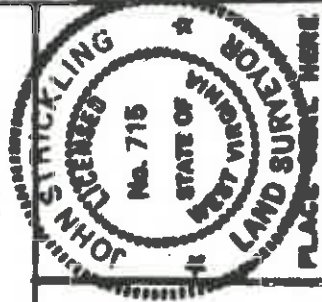
39°20'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION DATA #3
 ELEV. 1131'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)

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) John Staibling
 R.P.E. L.L.S. 715



DATE 28 APRIL, 1981
 OPERATOR'S WELL NO. 6
 API WELL NO. 47-017-3289
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL & GAS & LIQUID INJECTION - WASTE DISPOSAL - (IF GAS, PRODUCTION & STORAGE - DEEP - SHALLOW)
 LOCATION: ELEVATION 1071 WATER SHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DEARBORN

QUADRANGLE WEST UNION, W.VA. 7 1/2' QUAD. WEST UNION 15' SE
 SURFACE OWNER MARY SMITH ESTATE ACRES 45.8 133
 OIL & GAS ROYALTY OWNER W.R. SMITH HRG. LEASE ACRES 217
 LEASE NO. _____

PROPOSED WORK: DRILL & CONVERT - DRILL DEEPER - REDRILL - FRACTURE OR STIMULATE - PLUG OFF OLD FORMATION - FERTILIZE NEW FORMATION - OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON - CLEAN OUT AND REFLUG - TARGET FORMATION BIG INJUN 520 ESTIMATED DEPTH 2300'
 WELL OPERATOR HUGH SPENCER DESIGNATED AGENT HUGH SPENCER
 ADDRESS WEST UNION, W.VA. ADDRESS WEST UNION, W.VA.
2454 2454

FILED 1984
MAR 5 1984

(091
 is
 correct
 for
 this
 location

Central Station (01)

RECEIVED

MAR 14 1985



IV-35
(Rev 8-81)

OIL & GAS DIVISION

DEPT. of MINES

State of West Virginia

Department of Mines

Oil and Gas Division

Date March 9, 1985

Operator's

Well No. W.R. Smith # 6

Farm W.R. Smith Heirs

API No. 47 - 017 - 3289

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 9737 Watershed Arnolds Creek

District: Central County Doddridge Quadrangle West Union 71

COMPANY Hugh Spencer
ADDRESS West Union, W.Va. 26456
DESIGNATED AGENT Hugh Spencer
ADDRESS Same
SURFACE OWNER W.R. Smith Heirs
ADDRESS West Union, W.Va.
MINERAL RIGHTS OWNER Same
ADDRESS "
OIL AND GAS INSPECTOR FOR THIS WORK Mick

Underwood ADDRESS _____
PERMIT ISSUED March 1, 1984
DRILLING COMMENCED July 17, 1984
DRILLING COMPLETED July 20, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	20	20	
13-10"			
9 5/8			
8 5/8	241	241	To Surface
7			
5 1/2			
4 1/2	2235	2235	To Surface
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injum Depth 2235 feet

Depth of completed well 2235 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 101 feet; Salt None feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injum Pay zone depth 2114-2154 feet

Gas: Initial open flow 5 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 200 Mcf/d Final open flow 5 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 250 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

MAR 25 1985

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Perforated From 2114 To 2154, Fractured with 800 BBL. Water, 500 Gal. 15% Acid
and 60,000 Lbs. Sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red Clay			0	5	
Red Rock			5	15	
Sand			15	20	
Shale			20	30	
Sand			30	40	
Red Rock			40	50	
Sand			50	60	
Red Rock			60	68	
Sand			68	75	
Shale			75	93	
Red Rock			93	101	
Sand			101	135	Fresh Water
Red Rock			135	155	
Sand			155	165	
Red Rock			165	170	
Sand			170	200	
Red Rock			200	240	
Shale			240	260	
Sand			260	400	
Red Rock			400	510	
Shale			510	700	
Red Rock			700	775	
Sand			775	800	
Red Rock			800	825	
Shale & Red Rock			825	1210	
Sand			1210	1400	
Shale			1400	1490	
Sand			1490	1500	
Shale			1500	1565	
Sand			1565	1575	
Shale			1575	1705	
Sand			1705	1715	
Shale			1715	1860	
Sand			1860	1880	
Shale			1880	2000	
lime			2000	2120	
Sand			2120	2180	
Shale			2180	2235	
					Oil & Gas Show

(Attach separate sheets as necessary)

Hugh Spencer
Well Operator

By: Hugh Spencer

Date: March 9, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including
minerals, encountered in the drilling of a well."



1) Date: September 12, 19 83
 2) Operator's Well No. W.R. Smith # 6
 3) API Well No. 47 - 017 - 3289 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 OIL & GAS DIVISION
 DEPT. OF MINE RECLAMATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil Gas Underground storage Deep Shallow
 B (if "Gas", Production
 5) LOCATION: Elevation: 973.7 Watershed: Arnolds Creek
 District: Central County: Doddridge Quadrangle: West Union 728
 6) WELL OPERATOR: Hugh Spencer DESIGNATED AGENT Hugh Spencer
West Union, W.Va. 26456 Address West Union, W.Va. 26456

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey DRILLING CONTRACTOR:
 Address Rt. # 2 Box 232-D Name Spencer Enterprises
Jane Low, W.Va. 26378 Address West Union, W.Va. 26456

10) PROPOSED WELL WORK: Drill Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify)

11) GEOLOGICAL TARGET FORMATION, Ganta
 12) Estimated depth of completed well, 2600 feet
 13) Approximate trata depths: Fresh, 1-20 feet
 14) Approximate coal seam depths: None feet
 Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		Used	Left in well	CEMENT FILL-UP OR SACKS (Cable feet)	Kinds
	Size	Grade				
Conductor	16" H		<input checked="" type="checkbox"/>	20		
Fresh water	8" H		<input checked="" type="checkbox"/>	250	BY SURFACE	By Rule 15.01
Coal						
Intermediate						
Production	4 1/2" H		<input checked="" type="checkbox"/>	2600	250 SKS	Depths set by Rule 15.01
Tubing						Perforations:
Liners						Top
						Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3289 Date March 1, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>28540</u> <u>48541</u>
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[Signature]

NOTE: Keep one copy of this permit posted at the drilling location. Administrator, Office of Oil and Gas

See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

