

LATITUDE 38°32'30"

TM-5 PAR 17

TM-5 PAR 18

TM-5 PAR 16.1

NOTES:

This Map Is For Well Location Only & Does Not Represent A Complete Property Survey. Location Determined By Differential GPS.

3/4" Iron Rod Found In Low Gap At Call Of Set Stone

GAS WELL #7280 (47-039-01618)

GAS WELL #7157 (47-039-01466)

WALTER & NAOMI ROBERTSON DB 1532 PG 245 TM-9 PAR 54

GAS WELL #7152 (47-039-01383)

DONALD R. & BONNIE L. GODDEY DB 2392 PG 783 TM-9 PAR 54.1

TM-9 PAR 21

JEFFREY W. & SARAH H. JARRETT DB 2234 PG 633 TM-9 PAR 22.1

JOHN & REVA EDENS DB 980 PG 335 TM-9 PAR 22

JAMES F. JORDON DB 2402 PG 694 TM-9 PAR 38

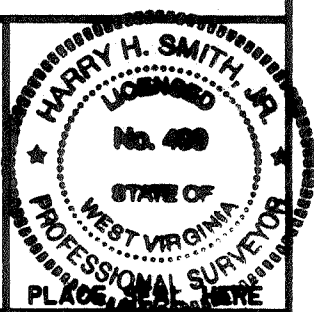
JERRY L. & TERRESA E. HASH DB 1573 PG 495 TM-9 PAR 55

J. W. EDENS DB 1274 PG 71 TM-9 PAR 58

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2")

FILE NO. DRAWING NO. 7282 SCALE 1" = 400 MINIMUM DEGREE OF ACCURACY 1/200' PROVEN SOURCE OF ELEVATION Standard Disc. Marked R-95, On SW Headwall Of Concrete Culvert

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. (SIGNED) Harry H. Smith, Jr. R.P.E. L.L.S. 499



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



DATE December 4, 1997 OPERATOR'S WELL NO. 7282 API WELL NO. 47 STATE 039 COUNTY 01619 PERMIT F

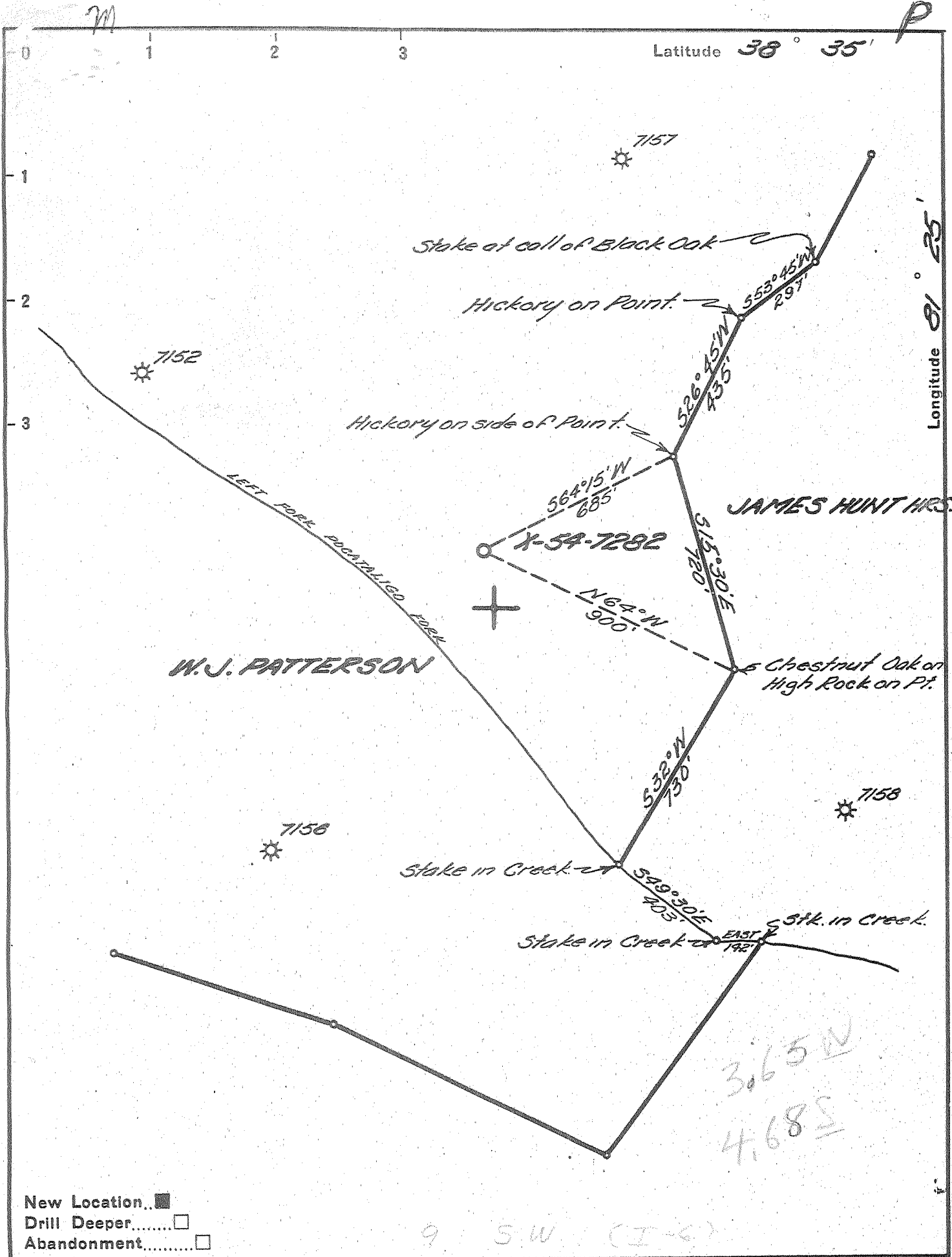
WELL TYPE: GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS,") PRODUCTION STORAGE X DEEP SHALLOW LOCATION: ELEVATION 788.00' WATER SHED Patterson Fork Of Little Sandy Creek DISTRICT Elk COUNTY Kanawha QUADRANGLE Kettle, WV COORDINATES LAT: 38°30'57" LONG: 81°29'02" SURFACE OWNER Jerry L. & Terresa E. Hash ACREAGE 55.4 OIL & GAS ROYALTY OWNER Peggy S. Whitte, Et Al. LEASE ACREAGE 347 COAL OWNER Peggy S. Whitte, Et Al. LEASE NO. 1013790 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Resandition

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION Oriskany ESTIMATED DEPTH 5137' WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD L. COTY ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV 25325-1273

KANAWHA COUNTY NAME 1619 PERMIT

DEEP W.S.U.

FEB 20 1998



New Location...
 Drill Deeper.....
 Abandonment.....

9 SW (I-6)

Company	<u>UNITED FUEL GAS CO.</u>
Address	<u>CHARLESTON W.VA.</u>
Farm	<u>W.J. PATTERSON</u>
Tract	Acres <u>347</u> Lease No. <u>13790</u>
Well (Farm) No.	Serial No. <u>X-54-7282</u>
Elevation (Spirit Level)	<u>800.06'</u>
Quadrangle	<u>WALTON - SW</u>
County	<u>KANAWHA</u> District <u>ELK</u>
Engineer	<u>Robert A. Howell</u>
Engineer's Registration No.	<u>2529</u>
File No.	<u>68-69</u> Drawing No. _____
Date	<u>6-22-53</u> Scale <u>1" = 400'</u>

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

WELL LOCATION MAP
 FILE NO. KAN-1619

+ 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.

6-6 192

Deep Well,



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 3

Quadrangle Walton

WELL RECORD

Permit No. KAN-1619

Oil or Gas Well Gas
(KIND)

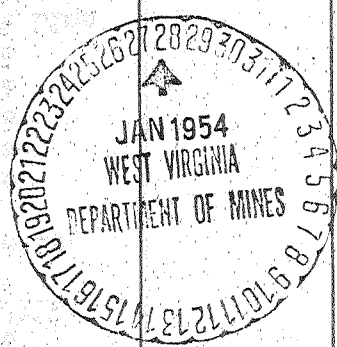
Company UNITED FUEL GAS COMPANY
Address P.O. Box 1273, Charleston 25, W. Va.
Farm W. J. Patterson Acres 347
Location (waters) Left Fork - Poca River
Well No. X-54-7282 Elev. 800.06
District Elk County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Ava Patterson, et al
321 Bays Ave. Address Morehead, Ky.
Drilling commenced 9-25-53
Drilling completed 12-22-53
Date Shot Not shot From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18		18'	
10		352'	Size of
8 5/8"		1607'	
6 3/4"			Depth set
5 1/2"		5025	
3			Perf. top
2		5137'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow 20 /10ths Water in _____ Inch
7 /10ths Merc. in _____ Inch
Volume 7,117,000 Cu. Ft.
Rock Pressure 1125 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 160' feet _____ feet
Salt water 1115' feet _____ feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			0	35			
White Slate			35	40			
Sand			40	65			
Red Rock			65	75			
White Slate			75	80			
Sand			80	110			
Red Rock			110	113			
Slate			113	135			Water 160' 1 bailer in 4 hrs.
Red Rock			135	145			
Slate			145	155			Show gas 1070'
Sand			155	172			Show gas 1120'
Red Rock			172	180			Show gas 1639'
Sand			180	243			Show gas 1700'
Slate			243	295			Hole full water 1115'
Sand			295	500			
Slate			500	600			
Sand			600	673			
Slate			673	680			
Sand			680	710			Gas 5125' 20/10 Merc. 7" 22# 7,117 M
Slate			710	765			Not shot
Gritty Lime			765	810			
Slate			810	850			
Sand			850	870			
Slate			870	890			FINAL OPEN FLOW - 7,117 M - Oriskany
Lime			890	900			
Sand			900	925			
Slate			925	945			
Sand			945	96 8			
Lime			968	1013			Shut in 12-22-53 in 2" tubing.
Slate			1013	1040			
Salt Sand			1040	1502			
Slate			1502	1507			
- Little Lime			1507	1550			
- Slate			1550	1553			
- Big Lime			1553	1719			
Injun Sand			1719	1765			
Slate & Shells			1765	3346			
Brown Shale			3346	3441			
Slate & Shells			3441	3813			



1719
1553
166
1719
801
918

	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	
Lime			3813	3852			
Brown Shale			3852	3942			
Slate & Shells			3942	3972			
Brown Shale			3972	4020			
Slate & Shells			4020	4316			
Gray Lime			4316	4346			
Slate & Shells			4346	4393			
Gray Lime			4393	4419			
White Slate			4419	4566			
Brown Shale			4566	4880			
White Slate			4880	4918			
Brown Shale			4918	4974			
Black Shale			4974	4993			
Corniferous Lime			4993	5117			
Oriskany Sand			5117	5137			
Total depth			5137'				

Date January 27, 19 54

APPROVED UNITED FUEL GAS COMPANY, Owner

By S. B. Ferrell
(Title)

02/25/99 23:42 FAX

03

WR-35

25-Feb-99
API # 47- 39-01619 F

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

Reviewed AS

Well Operator's Report of Well Work

Farm name: HASH, JERRY & TERESA Operator Well No.: HUNT 7282

RECEIVED
Office of Oil & Gas
Permitting

LOCATION: Elevation: 788.00 Quadrangle: KETTLE

MAR 08 1999

District: ELK County: KANAWHA
Latitude: 9300 Feet South of 38 Deg. 32Min. 30 Sec.
Longitude 7250 Feet West of 81 Deg. 27 Min. 30 Sec.

Division of
Environmental Protection

Company: COLUMBIA GAS TRANSMISSION
P. O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 02/20/98
Well work Commenced: 9/1/98
Well work Completed: 10/6/98
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 5137'
Fresh water depths (ft) 160'
Salt water depths (ft) 1115'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"		10'	
8-5/8"		1607'	50sx
5-1/2"		5025'	605sx
2-3/8"		5010'	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

OPEN FLOW DATA

Producing formation Oriskany Storage Pay zone depth (ft) 5117' - 5137'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after _____ Hours

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 _____ 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: COLUMBIA GAS TRANSMISSION CORP.

By: [Signature]

Date: 3-5-99

KAN 1619 F

MAR 16 1999

9/7/98 Drilled 4-3/4" hole to 5198' (Helderburg Lime).

9/14/98 Ran 5010' of 2-3/8", 4.6#/ft tubing.

10/1/98 Fractured Oriskany with N2 assist Delta Frac using 455 bbls of water,
82 MSCF N2, 19,400# 20/40 sand at 1 - 3 PPG.