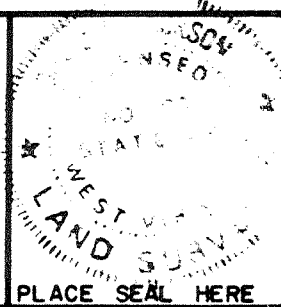


Outsales
 Parcel "A" 1 ac. to John R. Mick
 Parcel "B" 5 1/2 ac. to Arnold
 Parcel "C" 4 ac. owned by Speranza

All mapped wells
 within 2400'
 are shown.

FILE NO. var. = 4-22
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road intersection 2200' NE of location. El. 1562

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) David L. Jackson
 R. P. E. _____ L. L. S. 708



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



DATE November 21, 19 83
 OPERATOR'S WELL NO. B-556
 API WELL NO. 47-091-0395
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1562 WATER SHED Scob Run and Flag Run
 DISTRICT Knottsville COUNTY Taylor
 QUADRANGLE Tharnton 7 1/2' + 15' SW
 SURFACE OWNER Frank L. Kunst ACREAGE 146
 OIL & GAS ROYALTY OWNER Frank L. Kunst and Erna A. Kunst LEASE ACREAGE 173 1/2
 LEASE NO. 2300
 PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Beasae, Elk, Haverly ESTIMATED DEPTH 5400
 WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Berry Energy Consultants & Mgrs., Inc.
 ADDRESS % Berry Energy Consultants & Mgrs., Inc. P.O. Box 5, Clarksburg, WV 26301 ADDRESS 11th Floor, Union National Bank Bldg. P.O. Box 5, Clarksburg, WV 26301

6.6 unnamed Co



IV-35
(Rev 8-81)

RECEIVED

JUL 17 1984

State of West Virginia

Department of Mines

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date July 13, 1984
Operator's Well No. B-556
Farm Frank Kunst
API No. 47 - 091 - 0395

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

LOCATION: Elevation: 1562 Watershed Scab Run & Flag Run
District: Knottsville County Taylor Quadrangle Thornton 7 1/2

COMPANY J&J Enterprises, Inc.

ADDRESS P.O. Box 48, Buckhannon, WV 26201

DESIGNATED AGENT Richard Reddecliff

ADDRESS P.O. Box 48, Buckhannon, WV 26201

SURFACE OWNER Frank Kunst

ADDRESS 112 Walnut St., Grafton, WV 26354

MINERAL RIGHTS OWNER Same as surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Donald

Ellis ADDRESS Belmont, WV

PERMIT ISSUED 12/30/83

DRILLING COMMENCED 3/7/84

DRILLING COMPLETED 3/15/84

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1202	1202	285 sks.
7			
5 1/2			
4 1/2	5614.95	5614.95	410 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5282-5496 feet

Depth of completed well 5707 feet Rotary x / Cable Tools

Water strata depth: Fresh 47 feet; Salt 0 feet

Coal seam depths: 44-46, 120-22, 195-97, 480-82 785-87 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5282-86 5492-96 feet

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

Combined Final open flow 539 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1350 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)
Second producing formation Elk, Benson & Riley Pay zone depth 5071-75 4426-28 4191-94 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

(Continue on reverse side)

AUG 13 1984

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

Haverty: Perforations: 5282-86 (11 holes) 5492-96 (4 holes)

Fracturing: 75 sks. 80/100 sand: 300 sks. 20/40 sand: 762 Bbls. fluid.

Elk: Perforations: 5071-75 (14 holes)

Fracturing: 50 sks. 80/100 sand: 300 sks. 20/40 sand: 560 Bbls. fluid.

Benson & Riley: Perforations: 4426-28 (6 holes) 4191-94 (7 holes)

Fracturing: 100 sks. 80/100 sand: 420 sks. 20/40 sand: 500 gal. acid: 515 Bbls. fluid

BOTTOM HOLE PRESSURE Pf=Pwe^{XGLS}

$t=60 + (0.0075 \times 5615) + 459.7 = 562$ $X = \frac{53.35}{1} \times 562 = 29973 = 0.000033$ $Pf = 1350 \times 2.72^{(0.000033)}$
 $(0.670)(496)(0.9) = 1350 \times 2.72^{0.1} = 1350 \times 1.1$

Pf=1485 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
KB to Ground Level			0	10	
Soil, clay & sand			10	44	
Coal			44	46	1/2" stream @ 47'
Sand & shale			46	120	
Coal			120	122	Gas ck @ 2613 No show
Shale & sand			122	195	
Coal			195	197	Gas ck @ 4226 No show
Sand, shale & red rock			197	480	
Coal			480	482	Gas ck @ 4479 No show
Sand, shale & red rock			482	785	
Coal			785	787	Gas ck @ 5014 2/10-2" w/water 2,533 cu.ft.
Sand, shale & red rock			787	1030	
Sand, shale & red rock			1030	1385	
Red rock & shale			1385	1420	Gas ck @ 5707 No show
Little lime			1420	1450	
Big Lime & Injun			1450	1650	
Sand & shale			1650	2560	
5th Sand			2560	2600	
Sand & shale			2600	3620	
Balltown			3620	3640	
Sand & shale			3640	4191	
Riley			4191	4194	
Sand & shale			4194	4426	
Benson			4426	4428	
Sand & shale			4428	5071	
Elk			5071	5075	
Sand & shale			5075	5282	
Haverty			5282	5496	
Sand & shale			5496	5707	
				T.D.	

Bralier
@79

(Attach separate sheets as necessary)

J & J Enterprises, Inc.

Well-Operator

By: 

Date: 7/13/84

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 ..."



1) Date: December 8, 1983
 2) Operator's Well No. B-556
 3) API Well No. 47 - 091 - 0395
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1562 Watershed: Scab Run and Flag Run
 District: Knottsville County: Taylor Quadrangle: Thornton 7 1/2'
- 6) WELL OPERATOR J & J Enterprises, Inc. 7) DESIGNATED AGENT W. B. Berry
 Address c/o Berry Energy Consultants Address P. O. Box 5
P. O. Box 5 Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name ~~William Blosser~~ DONALD P. ELLIS Name S. W. Jack Drilling Company
 Address ~~Box 317 BELMONT, WV~~ Address P. O. Box 48
Fairmont, WV 26564 684-7082 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty - Elks - Benson
- 12) Estimated depth of completed well, 5400 feet
- 13) Approximate trata depths: Fresh, 50 feet; salt, NONE feet.
- 14) Approximate coal seam depths: 125, 190, 470, 620, 720, 780, 900 Is coal being mined in the area? Yes _____ / No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used			
Conductor	11-3/4	API	42#	X		30'	30'	Kinds
Fresh water								
Coal								Sizes
Intermediate	8-5/8	API	24#	X		1150'	1150'	To Surface <u>NEAT</u>
Production	4-1/2	API	10#	X		5400'	5400'	350 SKS
Tubing								<u>OR AS REQ BY RULE 15.01</u>
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-091-0395 Date December 30, 1983

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 December 30, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>BB</u>	<u>MH</u>	<u>MH</u>	<u>MW</u>	<u>4536</u>

Margaret J. Bass
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.